

Clear-See®



BAND SAW

MODEL NO: CBS250B

PART NO: 6460140

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

LS0718 - ISS 1

INTRODUCTION

Thank you for purchasing this CLARKE band saw.

This band saw is designed to cut wood or other materials by means of a revolving endless saw blade which is carried on two band wheels. It has an adjustable table to support and position the work piece that is fed by hand against the saw band.

Before attempting to operate the machine, it is essential that you read this manual thoroughly and carefully follow all instructions given.

GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

ENVIRONMENTAL PROTECTION



Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste but according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

SAFETY PRECAUTIONS



WARNING: WHEN USING ELECTRIC TOOLS BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND PERSONAL INJURY INCLUDING THE FOLLOWING. READ ALL THESE INSTRUCTIONS BEFORE ATTEMPTING TO OPERATE THIS PRODUCT AND SAVE THESE INSTRUCTIONS

1. Keep work area clear

- Cluttered areas and benches invite injuries.

2. Consider work area environment

- - Do not expose tools to rain.
- - Do not use tools in damp or wet locations.
- - Keep work area well lit.
- - Do not use tools in the presence of flammable liquids or gases.

3. Guard against electric shock

- Avoid body contact with earthed or grounded surfaces (e.g. pipes, radiators, ranges, refrigerators).

4. Keep other persons away.

- Do not let persons, especially children, not involved in the work touch the tool or the extension lead and keep them away from the work area.

5. Store idle tools

- When not in use, tools should be stored in a dry locked-up place, out of reach of children.

6. Do not force the tool

- It will do the job better and safer at the rate for which it was intended.

7. Use the right tool

- Do not force small tools to do the job of a heavy duty tool.
- Do not use tools for purposes not intended; for example do not use circular saws to cut tree limbs or logs.

8. Dress properly

- Do not wear loose clothing or jewellery, they can be caught in moving parts.
- Non-skid footwear is recommended when working outdoors.

- Wear protective hair covering to contain long hair.

9. Use protective equipment

- Use safety glasses.
- Use face or dust mask if working operations create dust

10. Connect dust extraction equipment

- If the tool is provided with a connection for dust extraction and collecting equipment, ensure these are connected and properly used.

11. Do not abuse the cord

- Never yank the cord to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.

12. Secure work

- Where possible use clamps or a vice to hold the work. It is safer than using your hand.

13. Do not overreach

- Keep proper footing and balance at all times.

14. Maintain tools with care

- Keep cutting tools sharp and clean for better and safer performance.
- Follow instruction for lubricating and changing accessories.
- Inspect tool cords periodically and if damaged have them repaired by an authorized service facility.
- Inspect extension cords periodically and replace if damaged.
- Keep handles dry, clean and free from oil and grease.

15. Disconnect tools

- When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply.

16. Remove adjusting keys and wrenches

- Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

17. Avoid unintentional starting

- Ensure switch is in "off" position when plugging in.

18. Use outdoor extension leads

- If the tool is used outdoors, use only extension leads intended for outdoor use and so marked.

19. Stay alert

- Watch what you are doing, use common sense and do not operate the tool when you are tired.

20. Check damaged parts

- Before further use of tool, it should be carefully checked to determine that it will operate properly and perform its intended function.
- Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation.
- A guard or other part that is damaged should be properly repaired or replaced by an authorized service centre.
- Have defective switches replaced by an authorized service centre.
- Do not use the tool if the switch does not turn it on and off.

21. Warning

- The use of any accessory or attachment other than one recommended in this instruction manual may present a risk of personal injury.






22. Have your tool repaired by a qualified person.

- This electric tool complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

ADDITIONAL

1. Position the fence on the lower side of the table when bevel-cutting with the table inclined;
2. Use a suitable holding device when cutting round or irregular shaped timber to prevent twisting of the work piece;
3. Do not to use saw blades which are damaged or deformed;
4. Do not to override the lockout and operate the tool, when the guards protecting the saw blades is open;
5. Do not clean the saw blade whilst it is moving;
6. Wear gloves for handling the saw blade and rough material.
7. The push-stick should be used if the distance between the blade and rip fence is less than approx 150 mm.

SAFETY SYMBOLS

	Read the manual and safety instructions before use		Eye protection should be worn
	Ear protection should be worn		Dust mask should be worn
	HAZARD, Motor gets hot		

LIST OF CONTENTS.

Main Box	
Band Saw (c/w fitted blade)	Fixings Pack
Table	Table Insert (in Fixings Pack)
Parallel Fence	Push Stick
Scale Rail	Instruction manual
Mitre Guide	

Stand Kit	
4 x Leg c/w Rubber Feet	2 x Short Cross Member
2 x Long Beam	Nuts, bolts, washers from fixings pack
2 x Short Beam	1 x 13mm / 10mm OE spanner
2 x Long Cross Member	1 x 3mm Hexagon Key

ELECTRICAL CONNECTIONS



WARNING! Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Connecting it to any other power source may cause damage.


This product may be fitted with a non-rewireable plug. If it is necessary to change the fuse in the plug, the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a suitable replacement is obtained.

If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.

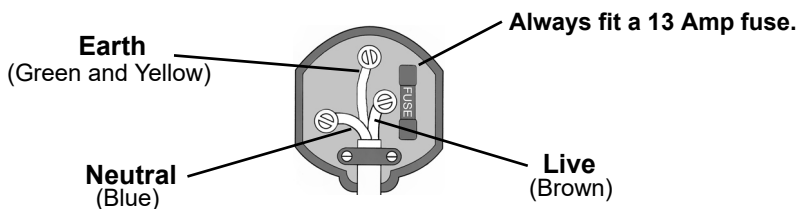


**WARNING! The wires in the power cable of this product are coloured in accordance with the following code:
Blue = Neutral Brown = Live Yellow and Green = Earth**

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The wire which is coloured **Blue** must be connected to the terminal which is marked **N** or coloured **Black**.
- The wire which is coloured **Brown** must be connected to the terminal which is marked **L** or coloured **Red**.
- The wire which is coloured **Yellow and Green** must be connected to the terminal which is marked **E** or  or coloured **Green**.

Plug must be BS1363/A approved.

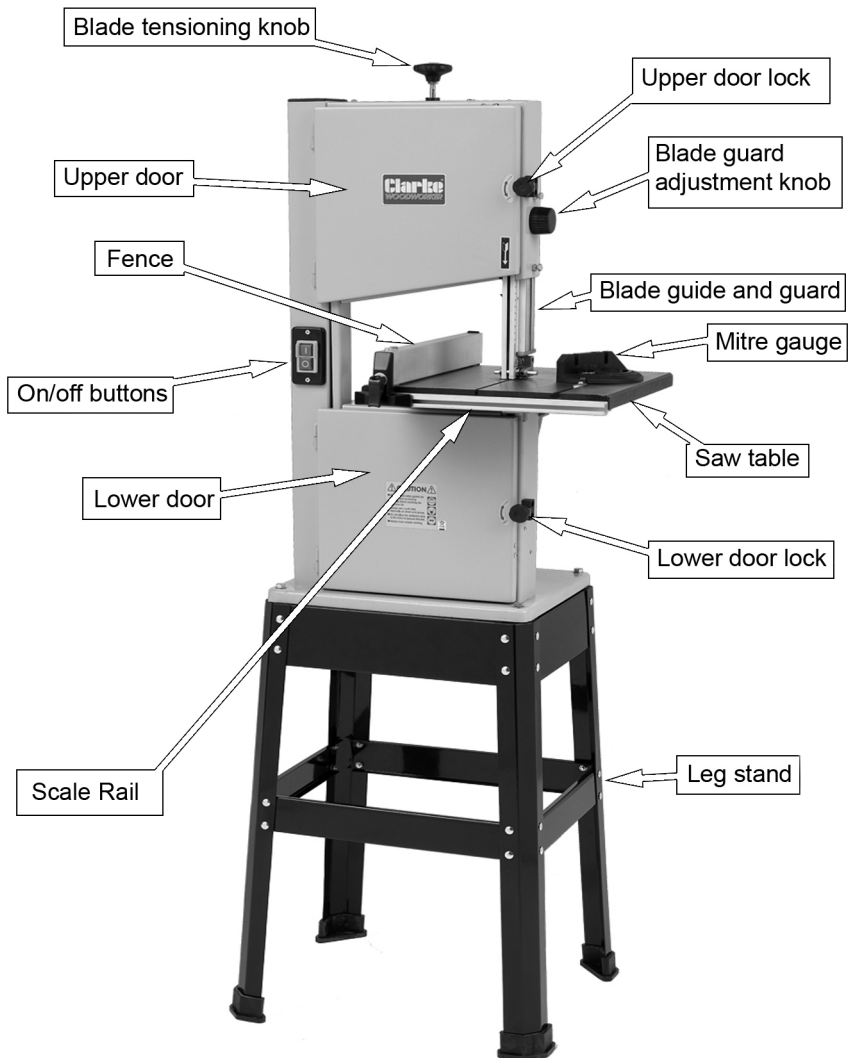


Ensure that the outer sheath of the cable is firmly held by the clamp

We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.

OVERVIEW



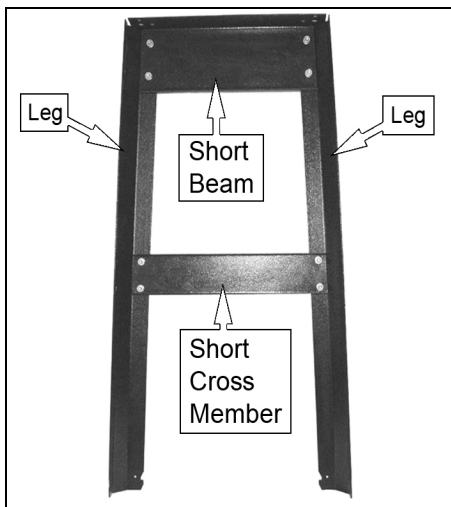
ASSEMBLY

ASSEMBLE THE STAND

1. On a flat level surface, assemble 2 sub assemblies as shown.

- Parts required per assembly, 2 legs, 1 short beam, 1 short cross member and 8 short round head screws nuts and washers.
- Do not tighten nuts fully at this stage.

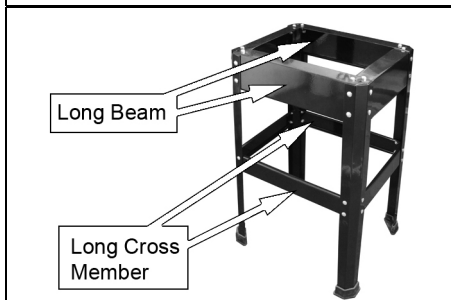
NOTE: Beams and cross members fit inside the legs. Screws are to be fitted from the outside with washers and nuts on the inside.



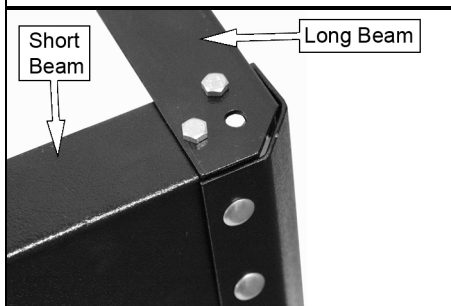
2. Connect the two sub assemblies together using 2 long cross members, 2 long beams, and 8 short round head screws with nuts and washers,

- Do not tighten nuts at this stage.

NOTE: The long beams are fitted on top of the short beams. Hex head bolts are fitted from the top with washers and nuts on the underside.



3. Invert the stand and push on the rubber feet.
4. Turn stand over onto its feet again and only when satisfied that it is completely stable, fully tighten all nuts.



MOUNT THE BAND SAW ON TO THE STAND



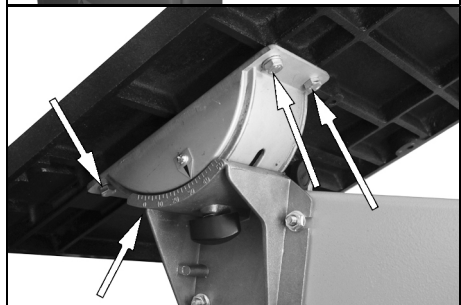
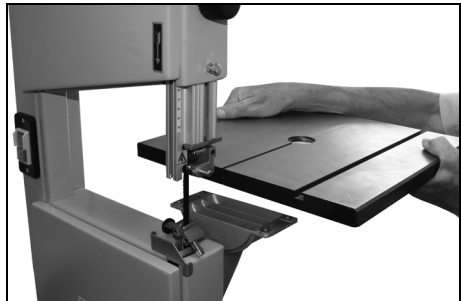
WARNING: WHEN YOU MOUNT THE BAND SAW ON TO THE STAND WE RECOMMEND THAT YOU GET HELP BECAUSE OF THE WEIGHT OF THE BANDSAW.

1. Lift the band saw on to the stand.
2. Use the 4 x M8x35 bolts, washers and nuts supplied to attach the band saw to the stand.
 - Put the bolts through the base of the saw from above,
 - Install the washers and nuts on the underside of the stand and tighten to secure..

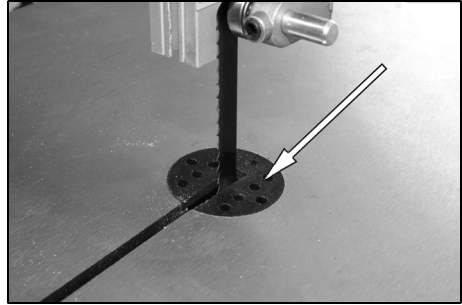


INSTALL THE SAW TABLE

1. Slide the table over the blade and rest it on the quadrant support below.
2. Secure the table from below as shown, using 4 bolts and washers supplied.

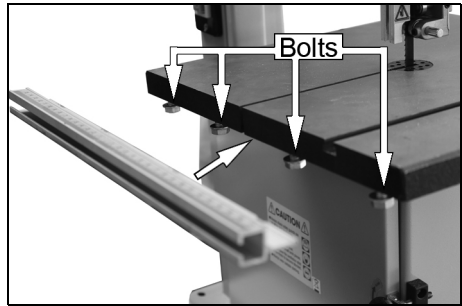


3. Fit the table insert as shown.
 - Always replace the table insert when worn.



FIT THE GUIDE RAIL TO THE TABLE

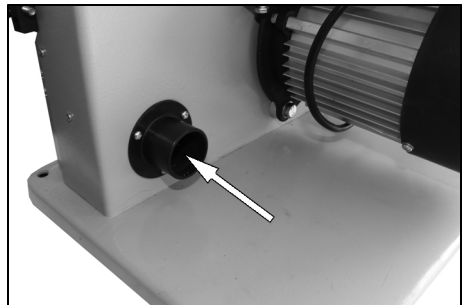
1. Loosely screw 4 bolts and washers into the bottom of the table as shown,
2. Slide the guide rail onto the shafts of the bolts
3. Tighten the bolts to secure the guide rail in place.



CONNECTING TO A DUST COLLECTOR

This bandsaw is fitted with a dust port to enable connection to a dust collector.

- Outside Diameter 40 mm
- Inside Diameter 36 mm



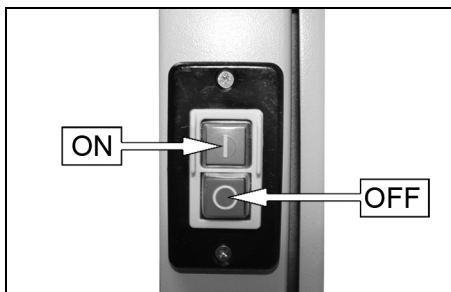
The band saw is now ready to use.

FUNCTIONS

SWITCHING ON/OFF

1. Press the green ON (I) button to start the band saw.
2. Press the red OFF (O) button to stop the band saw.

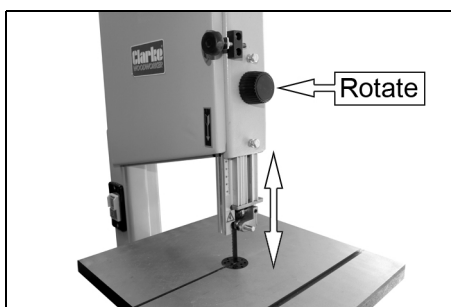
NOTE: The blade may continue to rotate for a short time before coming to a complete stop.



UPPER BLADE GUARD ADJUSTMENT

1. Rotate the blade guard adjustment knob:
 - Clockwise to raise the blade guard.
 - Anti-clockwise to lower the blade guard.

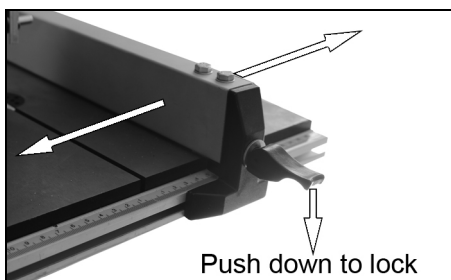
NOTE: The blade guard should be positioned as close as possible to the top of the material the blade is cutting.



USING THE FENCE

- The rip fence can be used on both sides of the blade. The scale indicates the distance from the saw blade to the fence.

1. Place the fence over the guide rail, and into the required position, and then press down the lock lever to clamp the rip fence in position.



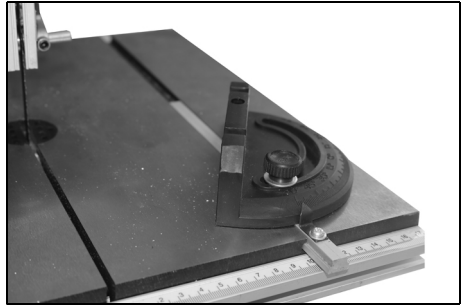
WARNING: Always use a push stick when straight cutting small work pieces using the fence;

USING THE PUSH STICK

- The push-stick serves as an extension of the operators hand as protection against accidentally touching the saw blade.
- The push-stick should be used if the distance between the blade and rip fence is less than approx 150 mm.
- Always replace the push-stick if lost or damaged.

USING THE MITRE GAUGE

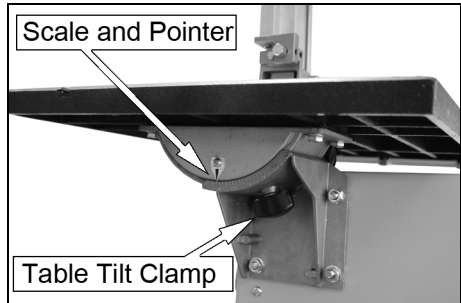
1. The mitre gauge is inserted into the table slot from the front edge.
2. To set a mitre angle, loosen the locking knob by turning it counterclockwise.
3. Firmly tighten the locking knob to secure the mitre gauge in position.



TILTING THE TABLE

1. Loosen the table tilt clamp.
2. Adjust the table to the required angle.
 - We recommend that you use a protractor to ensure accuracy.
3. Retighten the table tilt clamp.

NOTE: The scale and pointer can be adjusted by loosening the screw on the pointer.

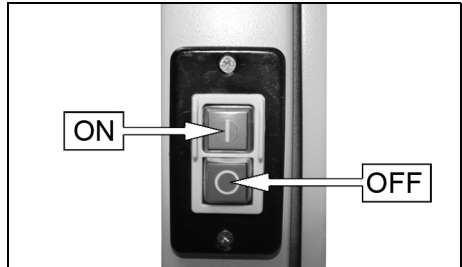


OPERATION

Before commencing work, ensure the work area is clean and tidy and the bandsaw table is clear of tools etc. Plan your work carefully and set the bandsaw up accordingly before switching on.

1. Check the blade is correctly tensioned before use (see page 17).
2. Set the upper blade guide as close as practical to the workpiece. This provides the best safety for the operator and giving more accurate results and greater control.
3. Switch on and allow the saw blade to reach full speed before proceeding.

- Use both hands to feed the workpiece. The work must be held flat on the table at all times to prevent the blade from binding
- Use a steady, even pressure, just sufficient to keep the blade cutting.
- Always use the rip fence or mitre gauge where possible to eliminate any sideways movement of the work. This is most important when the table is tilted at an angle.
- Remember that the blade removes material during the cut creating a gap called the 'kerf', which must be allowed for when cutting to exact sizes. Plan your cut so that the kerf is the scrap side of the line you wish to cut. Where necessary, allow a little more material for finishing.
- Always use a suitable holding device when cutting round or irregular shaped timber to prevent twisting of the work piece.



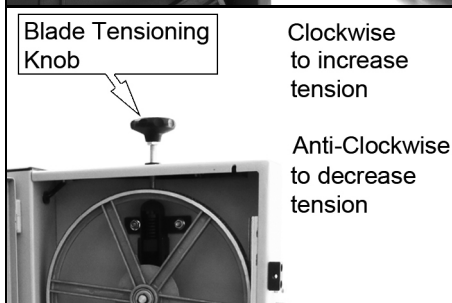
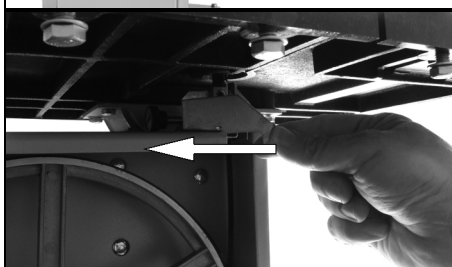
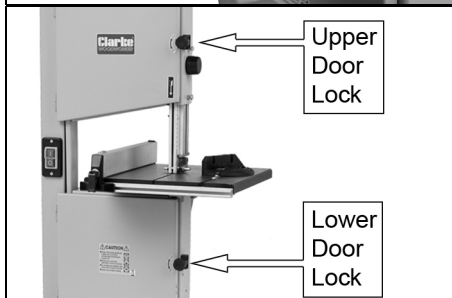
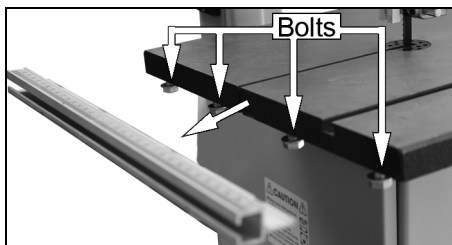
CHANGING THE SAW BLADE



WARNING: DISCONNECT THE SAW FROM THE MAINS SUPPLY BEFORE CHANGING THE BLADE.

REMOVING THE BLADE

1. Loosen the bolts shown and remove the guide rail.
2. Open the upper and lower doors.
3. Slide the lower blade guard to the left.
4. Remove tension from the blade and remove the blade.



FITTING A BLADE



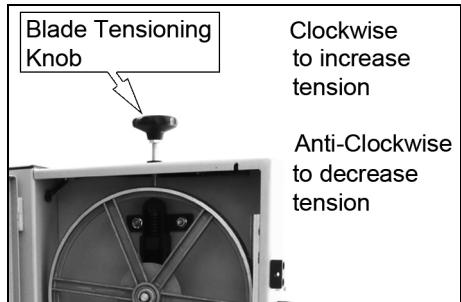
WARNING: BLADES ARE NORMALLY SUPPLIED COILED, TAKE CARE WHEN UNCOILING THE SAW BLADE AS THEY HAVE A TENDENCY TO SPRING OPEN.

1. Slide the blade over the wheels,

NOTE: Turning the wheels as you do so makes this easier.

- Centre the blade on the rubber tyres of the wheels.
- Make sure the teeth point down on the right side.

2. Add a little tension to the blade.



3. Turn the upper wheel clockwise by hand to make sure that the blade tracks correctly on the wheels.

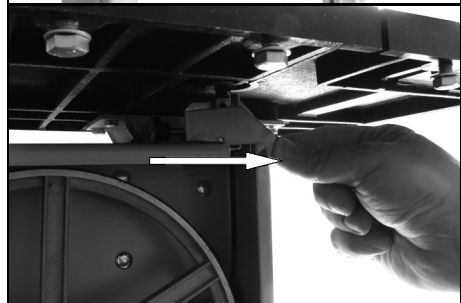
- if not see "Tracking the Saw Blade" on page 17.



4. Slide the lower blade guard to the right.

5. Close and secure the doors.

6. Replace the guide rail.

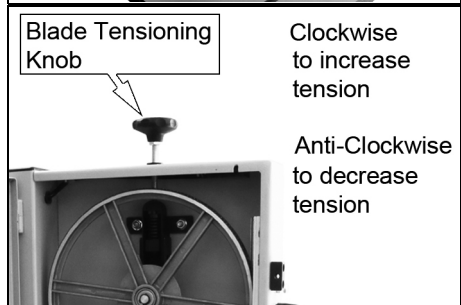
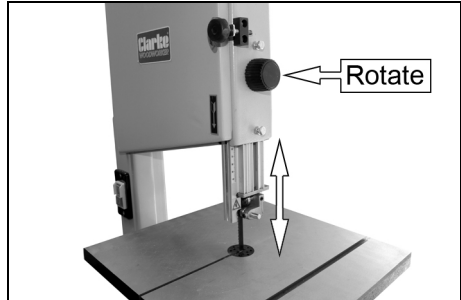


ADJUSTING THE BLADE TENSION



CAUTION: TOO MUCH TENSION CAN CAUSE THE SAW BLADE TO BREAK. TOO LITTLE TENSION CAN CAUSE THE BLADE TO MAKE IRREGULAR CUTS

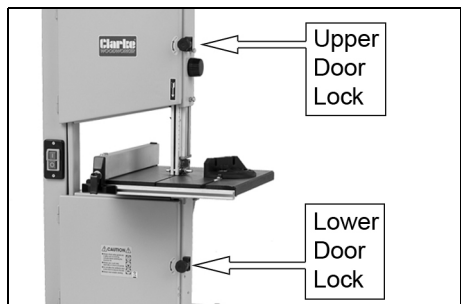
1. Raise the upper blade guide fully.
2. Check the tension by pressing with a finger against the side of the blade, halfway between the table and upper guide.
 - The blade should not flex more than 2 mm.
3. Turn the blade tension knob to adjust tension.
 - Turning the blade tension knob clockwise will increase the tension.
 - Turning the blade tension knob anticlockwise will decrease the tension.



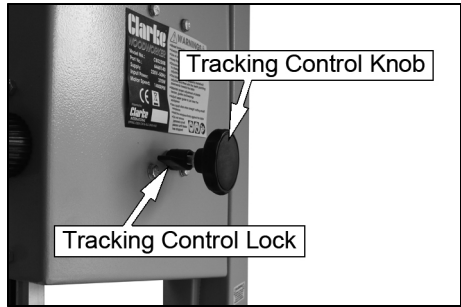
TRACKING THE SAW BLADE

If the saw blade does not run in the centre of the rubber tyre, the tracking needs to be corrected by adjusting the tilt of the upper bandsaw wheel.

1. If required, open the upper and lower doors.



2. Loosen the tracking control lock and manually rotate the upper wheel, taking care of the sharp blade
3. Turn the tracking control knob clockwise or anticlockwise until the saw blade tracks centrally on the rubber tyre.
4. After adjusting, retighten the tracking control lock and close the doors.

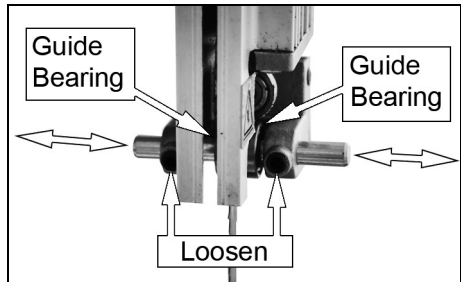


ADJUST THE GUIDE/THRUST BEARINGS AND LOWER BLADE GUIDES

The guide/thrust bearings and the lower blade guides help keep the blade tracking straight and correctly alligned during use. To adjust:

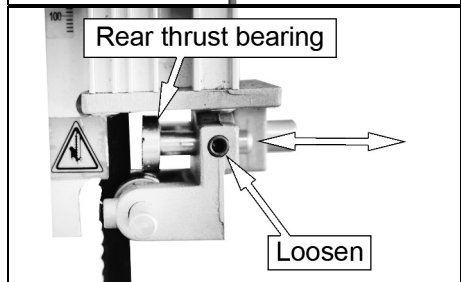
UPPER GUIDE BEARINGS

1. Loosen the two grub screws.
2. Adjust the bearings so that they are approximately 0.5 mm from the blade.
3. Retighten the grub screws.



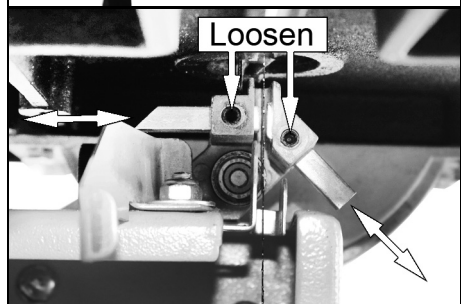
REAR THRUST BEARING

1. Loosen the grub screw.
2. Adjust the bearing so that it is approximately 0.5 mm from the blade.
3. Retighten the grub screw.



LOWER BLADE GUIDES

1. Loosen the two grub screws.
2. Adjust the guides so that they are approximately 0.5 mm from the blade.
3. Retighten the grub screws.



MAINTENANCE AND SERVICING

DAILY

1. Keep the machine clean.
2. Check the saw blade for missing teeth and cracks.
3. Open the top & bottom wheel covers and clean out all saw dust.

WEEKLY

1. Open the top & bottom wheel covers and clean out all saw dust with a vacuum cleaner.

MONTHLY

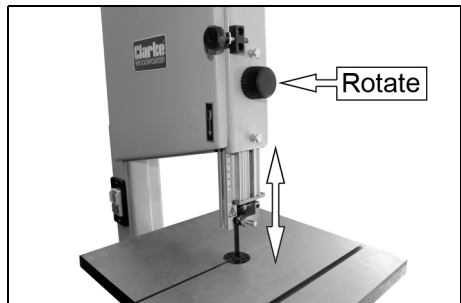
1. Open the lower and upper door and check the condition of the wheels/tyres and blade.
 - If required clean the tyres.
2. Using an air line (wearing goggles) blow out the motor casing.

TRANSPORTING THE BANDSAW

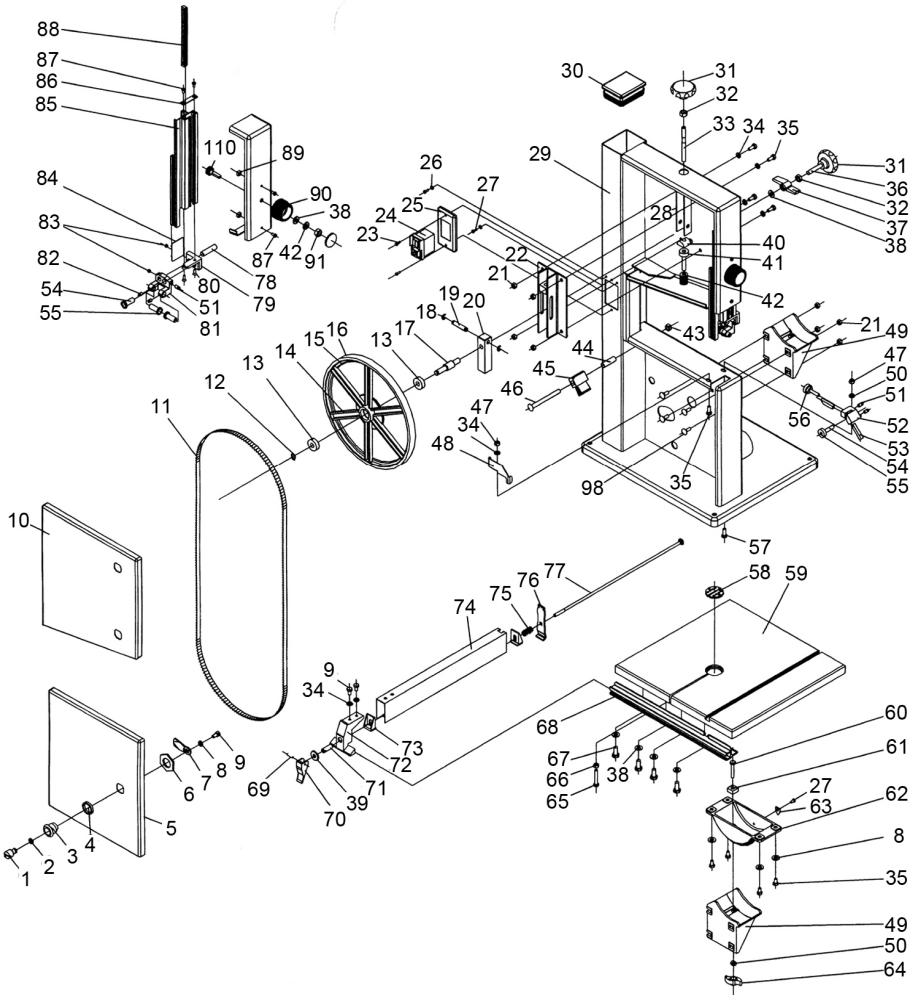


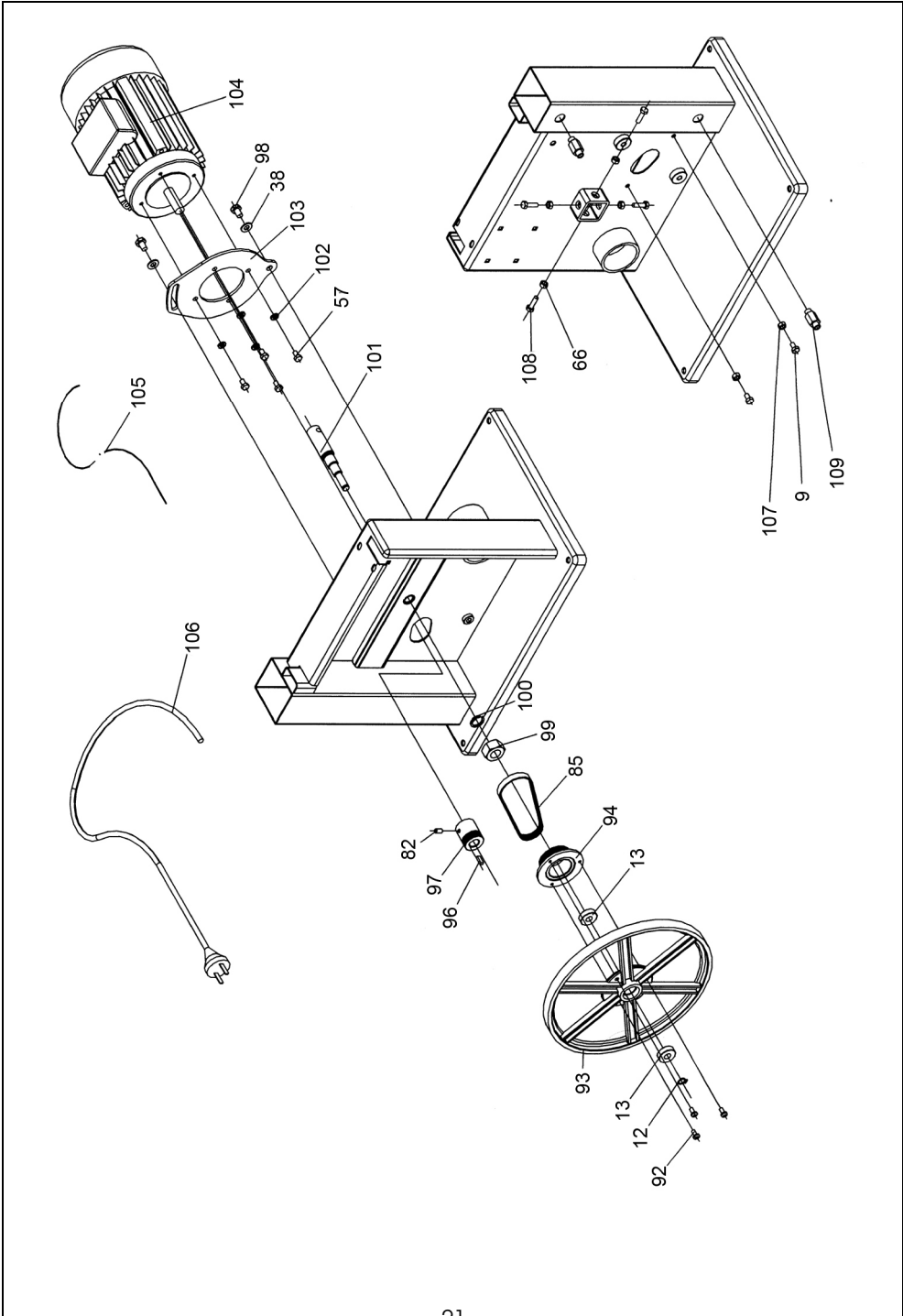
WARNING: DO NOT USE GUARDS FOR HANDLING OR TRANSPORTATION

- Always transport the tool with the blade guard in the fully lowered position.



PARTS DIAGRAMS





PARTS LIST

001	Slotted Insert	032	Hex head.thin Nut
002	Washer	033	Thread Bolt
003	Housing	034	Washer
004	Washer	035	Hex head bolt
005	Lower Door	036	Hex head bolt
006	Nut	037	Wing Knob
007	Latch Tab	038	Washer
008	Ext lock Washer 6	039	Washer
009	Hex head bolt M6x10	040	Nut
010	Upper Door	041	Shaft
011	Saw Blade	042	Butterfly Spring
012	Circlip	043	Hex head flange nut
013	Ball Bearing	044	Spacer Bushing
014	Upper Wheel	045	Brush Strip
015	Balance Collar	046	Cup Square Neck Bolt
016	Band Saw Wheel/Tyre	047	Hex head lock nut
017	Bearing Bolt (Upper)	048	Blade Guard
018	"E" Clip	049	Blade Trunnion Lower
019	Pin Guide	050	Washer
020	Seat Bearing Bolt Upper	051	Grub screw
021	Hex head flange nut	052	Roller Guide
022	Guide Plate Assembly	053	Pilot Pin
023	Cross Countersunk Hd.screw	054	Thrust Bearing Shaft
024	Magnetic Switch	055	Bearing
025	Switch Plate	056	Idler Wheel Shaft
026	Ext.lock Washer	057	Hex head.bolt
027	Cross Pan.hd.screw	058	Blade Fork
028	Blade Tensioner	059	Table
029	Band Saw Frame	060	Cup Square Neck Bolt
030	End Plug	061	Guide Piece
031	Adjust Handle	062	Table Trunnion (Upper)

063	Indicator	087	Cross Pan Head Screw
064	Tension Knob	088	Rack
065	Hex head bolt	089	Guide Piece
066	Hex.nut	090	Adjusting Knob
067	Hex head bolt	091	Hex head lock nut
068	Rip Fence Extrusion	092	Cross Pan.hd.screw
069	Roll Pin	093	Lower Wheel
070	Lever	094	Driven pully
071	Connet Set	095	V-ribbed Belt
072	Baffle Bracket	096	Key
073	End Plate	097	Motor Pulley
074	Baffle	098	Cup Square Neck Bolt
075	Spring	099	Hex.nut
076	Clamp Board	100	Spring Washer
077	Clamp Screw	101	Bearing Bolt Upper
078	Fastening Shaft	102	Spring Washer
079	Seat Guide Upper	103	Motor Plate Mounting
080	Tapping Screw	104	Motor
081	Housing Upper Guide	105	Motor Cable
082	Grub screw	106	Power Cable
083	Grub screw	107	Hex head nut
084	Slide Board	108	Hex head bolt
085	Guide Lever	109	Strain Relief
086	Cover Board	110	Shaft

To order spare parts quote DTCBS250B + the 3 digit part number above.

SPECIFICATIONS

Model	CBS250B
Power	370W, 230V
Blade Speed	730 m/min
Blade Length	1,712 mm
Blade Width	10 mm
Max Width of Cut	245 mm
Max Depth of Cut	100 mm @ 90° / 75 mm @ 45°
Table Size	333 x 336 mm
Table Height on Stand	1078 mm
Table Tilt Angle	0° to +45°
Dust Extraction Outlet	36 mm (inside) / 40 mm (outside)
Dimensions (W x H x D)	570 x 1525 x 480 mm
Weight	32 kg

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2014/30/EU *Electromagnetic Compatibility Directive.*

2006/42/EC *Machinery Directive.*

2011/65/EU *Restriction of Hazardous substances.*

The following standards have been applied to the product(s):

EN 61029-1:2009+A11:2010, EN 61029-2-5:2011+A11:2015, EN 55014-1:2006+A2:2011,

EN 55014-2:1997+A2:2008, EN 61000-3-3:2013, EN 61000-3-2:2014.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2018

Product Description: 250mm (10") Band Saw on Stand

Model number(s): CBS250B

Serial / batch Number: N/A

Date of Issue: 27/03/2018

Signed:

J.A. Clarke
Director

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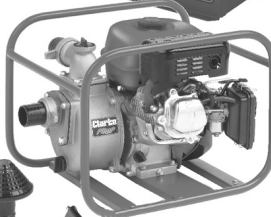
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