

Bosch Mitre Saw safety instruction notes

Similar in function to the Table Saw but intended specifically for CROSS cutting.

1. Structure of Radial Arm saw –

- a. Circular blade
- b. Motor Mounted on sliding mechanism known as the 'Glide Arm'.
- c. Blade guard
- d. Fence
- e. Primarily used for cross cutting

2. PPE and extraction.

- a. No loose clothing
- b. No gloves
- c. Safety glasses or visor at all times.
- d. Dust extraction always to be used.
- e. Dust mask if prolonged cutting of fibrous materials – MDF etc.

3. Adjustments

Most will be previously set up by workshop cleaning/maintenance team. **If in doubt, ask.**

- a. Do not remove blade guard at any time unless performing maintenance with power isolated.
- b. Adjust blade height & angle to suit required cut – don't forget to check for square/parallel.
- c. Stock must be held firmly against the fence

4. Follow basic safety rules

- a. Turn on extractor before powering up the machine.
- b. Keep hands clear of blade at all times – Do not attempt to hold material any closer than 75mm (3") from the blade – use clamps if necessary.
- c. Check for any bows or twist in the material and ensure it is tight to the fence (see illustration)

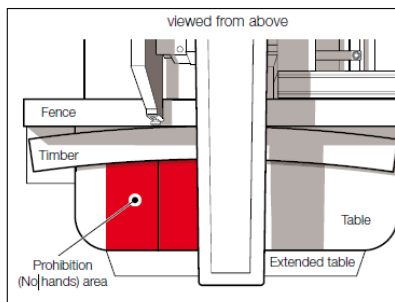


Figure 6 Bowed timber – rounded edge to the fence to prevent snatching

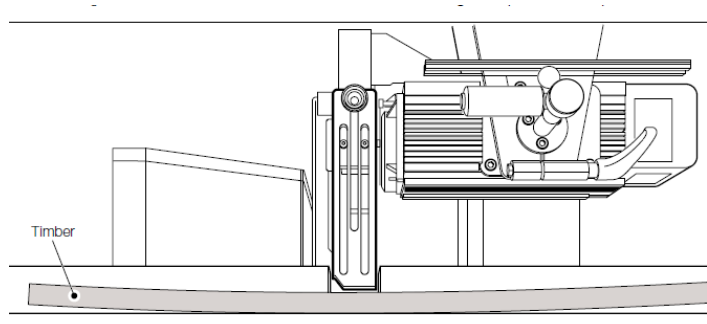


Figure 7 Bowed timber – rounded face down to prevent snatching



Transport lock

Glide Arm lock

Table clamping lever



5. Unlocking the blade/motor and 'Glide Arm' from the 'Transport' position

- a. Press down gently on the handle.
- b. Pull the transport safety lock all the way out.
- c. Gently raise the blade/motor to the working position.
- d. Unlock the Glide Arm by pressing down on the lock lever.

When work is completed leave the machine in the transport position by reversing the above steps (ensure the glide arm is pushed fully home).

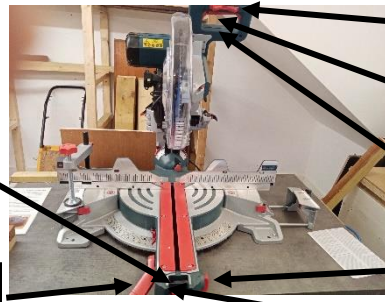
6. Extending the Saw Table (Left & right-hand side)

- a. Push the Table clamping lever inwards.
- b. Pull out the table extension as required.
- c. Push the clamping lever back out to lock the extension.
- d. There is a length stop that can be deployed at the end of the table extension for repeated cuts.



Mitre locking knob

Bevel clamping handle



Lock off button

On/Off switch

Laser on/off switch

Rotary knob

Mitre locking lever



7. Cutting procedure (90° cuts)

- a. Ensure the extraction pipe is properly connected and turn on the extractor.
- b. If required, turn on the laser guide (twin laser beam indicates each side of the blade kerf)
- c. Position the workpiece on the machine table and clamp if necessary.
- d. **Stand to one side of the blade NOT directly in line with it.**
- e. Take firm grip of the handle.
- f. Ensure the blade is clear of the work piece.
- g. Release the lock by sliding the lock off button to the centre.
- h. Press and hold the On/Off switch and **LISTEN** - Rumbling, whining or vibration indicates a problem
- i. Pull the motor head/blade steadily over the top of the work.
- j. Lower the blade/motor to the cut position - the blade guard will automatically retract.
- k. Push the blade forward steadily in to the work piece – **DO NOT FORCE THE CUT**
- l. When the cut is complete, return the motor head to its rest position.
- m. Turn off the motor and wait for the blade to come to a standstill.
- n. Turn off the dust extraction unless making repeat cuts.

NOTE – when making mitre or bevel cuts ensure the saw will not come in contact with either of the fences.

8. Adjusting blade angle for mitre cuts

- a. Losen the Mitre locking knob.
- b. Pull the locking lever (underneath the knob) and swing the saw table to the required angle.
NOTE: there are preset detents for 0, 15, 22.5, 31.6 & 45° both sides plus 60° on the right.
- c. Retighten the locking knob.
- d. Cut as per above.

9. Adjusting the blade angle for left hand bevel cuts.

- a. Losen the Bevel clamping handle.
- b. Swing the Glide Arm assembly to the left to the required angle.
NOTE: there are preset detents for 0, 22.5 & 45°
- c. Lock the Bevel clamping handle.
- d. Cut as per above.

10. Adjusting the blade angle for right hand bevel cuts

- a. Losen the Bevel clamping handle.
- b. Swing the Glide Arm assembly slightly to the left and turn the rotary knob to the '45°R' position.
- c. Swing the Glide Arm assembly to the left to the required angle.
NOTE: there are preset detents for 0, 22.5 & 45°
- d. Lock the Bevel clamping handle.
- e. Cut as per above.

It is possible to set an angle up to 47° following the above but setting the rotary knob to the 47° position.

11. Restricting the depth of cut (for slots Tenons & lap joints)

- a. With the saw in the upper position swing the depth stop out
- b. Lower the blade to the required depth.
- c. Turn the depth adjuster so that it touches the depth stop.



Depth adjuster

Depth stop

12. Useful functions of the machine

- a. Repeat cuts to length (using a stop)
- b. Angle (mitre, bevel & compound) cuts
- c. Lap Joints
- d. Tenons