

Addendum for the Perform CCBB and CCBB II bandsaw owner's manual

Fitting and aligning the saw blade in the CCBB bandsaw

This guide does not cover initial fitting or setting up of the machine. Please refer to the User Manual that came with the machine for this information.

Note, numbers with the '#' symbol in front of them refer to the item numbers in the exploded parts view of the User Manual, pages 12 & 13 and figures numbers refer to the illustration figure numbers that can also be found in the User Manual.

Turn the machine off at the mains supply!

Remove the saw table (optional)

To gain better access to the machine it is easier to remove the saw table. From under the table push up to remove the centre insert (#85). Either, remove the table by unscrewing the Tilt Quadrant Thumb Nut (#73, fig 4) and lift the table off. Alternatively remove the four bolts (#90) under the table that secure the table to the Tilt Quadrant and lift the table off.

There is now unhindered access to the top and bottom blade guides.

Release the saw blade guides

Loosen the saw guard clamp (#73, fig 2) and place the saw guard (#52, fig 7) to about the half way position of its travel and lock in place with the saw guard clamp.

Loosen the following; Both side guide bolts marked 'A' (#61, fig 8).
The rear thrust bearing clamp screw (#107, fig 7).
Both side guide bolts marked 'B' (#110, fig 8).

Remove the following; The safety box holding screw and box (#61, #64, figs 9/10).

Loosen the following; The four lower guide bolts marked 'C', 'D' & 'E' (#70, #50, #67, fig 10).

Loosen the saw guard clamp (#73, fig 2) and raise the saw guard (#52, fig 7) to its highest point and lock in position.

Fitting or refitting the saw blade

Open both top and bottom doors and place the saw blade onto the top and bottom wheels. A steel spring clamp may help with this, holding one end of the saw blade on one of the wheels whilst locating the other end on the other wheel. Move the saw blade to the centre of the tyre on the drive wheels. Tighten the Blade Tensioning Wheel Knob (#20, fig 2) so that it takes up enough slack. Whilst turning one of the drive wheels adjust the Tracking Control Knob (#33, fig 2) so that the blade runs in the centre of the tyre whilst turning one of the wheels. Increase the tension on the saw blade with the Blade Tensioning Wheel Knob (#20, fig 2) whilst turning one of the wheels just enough so that with a sideways push on the saw blade, when its **stationary**, that it doesn't touch the left-hand side of the Saw Body (#2). Close the doors and apply power to the machine and then turn the machine on with the ON/OFF switch (#4, fig 1) on the side of the machine and check that the blade runs smoothly.

Adjusting the saw blade guides

Turn the machine off at the mains supply!

Adjust the lateral movement of the top saw blade guide assembly (*fig 8*) forward or backwards, so that the two side bearing guides will sit just behind the teeth of the saw blade and lock in position with the bolts marked 'A' (*#61, fig8*). Leave at least a 1-2mm gap between the bearings and the teeth of the saw blade. Under no circumstances must the guide bearings touch the saw blade teeth whilst its running otherwise damage to the saw blade will occur.

Adjust the position of the two top side guide bearings (*#62, #111, fig 8*) so that they just clear the saw blade on both sides whilst turning one of the drive wheels and lock in position with both side guide bolts marked 'B' (*#110, fig 8*). Turn the blade through at least one revolution with the drive wheels to ensure the guide bearings still just clears the blade.

Adjust the position of the top thrust bearing (*#62, #109, fig 7*) so that it just clears the back edge of the saw blade and lock in position with the rear thrust bearing clamp screw (*#107, fig 7*). Turn the blade through at least one revolution with the drive wheels to ensure the thrust bearing still just clears the blade.

Adjust the lateral position of the two bottom side guide axels (*#66, fig 10*) forward or backwards so that the two side guide axels will sit just behind the teeth of the saw blade and lock in position with the bolt marked 'C' (*#70, fig10*). Leave at least a 1-2mm gap between the guide axels and the teeth of the saw blade. Under no circumstances must the guide axels touch the saw blade teeth whilst its running otherwise damage to the saw blade will occur. Turn the blade through at least one revolution with the drive wheels to ensure the guide axels still just clears the blade.

Adjust the position of the two bottom side guide axels (*#66, fig 10*) side to side so that they just clear the saw blade on both sides whilst turning one of the drive wheels and lock in position with both of the side guide screws marked 'E' (*#67, fig 10*). Turn the blade through at least one revolution with the drive wheels to ensure the guide axels still just clears the blade.

Adjust the position of the bottom thrust bearing (*#62, #65, fig 9*) so that it just clears the back edge of the saw blade and lock in position with the rear thrust bearing clamp screw marked 'D' (*#50, fig 10*). Turn the blade through at least one revolution with the drive wheels to ensure the guide axels still just clears the blade. Refit the safety box with screw (*#63, fig 7*).

Close the doors and apply power to the machine and then turn it on with the **ON/OFF** switch (*#4, fig 1*) on the side of the machine and check that the blade runs smoothly and the guide and trust bearings are not fowling the blade. If they are then repeat this section of the procedure.

Refitting the saw table and adjust

Refit the saw table. Depending how it was removed, either refit the table by securing it with the Tilt Quadrant Thumb Nut (*#73, fig 4*) or refitting the four bolts (*#90*) under the table that secure the table to the Tilt Quadrant.

Set the table perpendicular to the saw blade using an engineers square, place the square vertically on top of the table and place it against the saw blade. It may help to secure the square upright to the saw table using a couple of the rare earth magnets. Adjust the table's angle to the blade with the preset angle stop (*#80, fig 4*) and lock in position.

Set the table's mitre fence Tee slot parallel to the saw blade (fig 6). It is best to do this with the UJK Band Saw Buddy. Alternatively, a steel ruler from an adjustable square can be used with two thin $\varnothing 10\text{mm}$ rare earth magnets (fig 1A). Place the magnets on the inside of the blade just behind the teeth and then attach the ruler. Position the blade so that the ruler is just above the table so that it is free to swing.

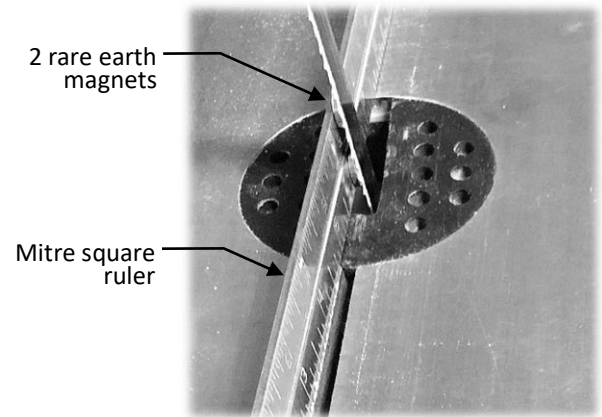


Figure 1A

Lock the bottom wheel with a spring clamp on the saw blade where the blade leaves the wheel on the top left-hand side. If you do this on the right-hand side it may twist the blade and give a false reading at the ruler. Measure the distance at both ends of the ruler to the mitre fence Tee slot and adjust as necessary to bring it in line. This is done by slackening off the four bolts under the table that secures it to the tilt quadrant. (#90, fig 4).

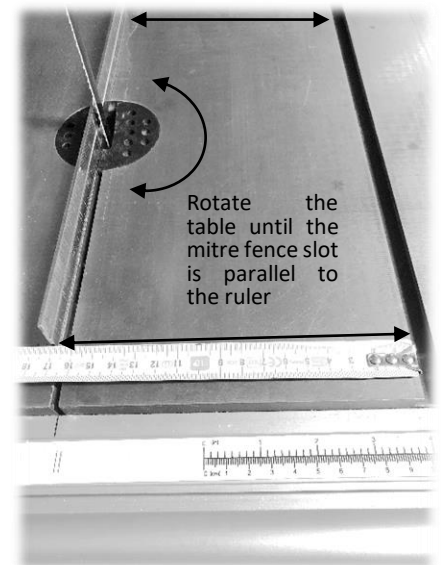


Figure 2A

This guide does not cover setting up the CCBB's guide fence

Align the guide fence to the mitre fence Tee slot for the CCBB II only. (Setting this up is missing from the supplied CCBB user's manual). Turn the guide fence over and slacken off the four Allen head securing bolts (fig 3A) and then pinch up. It is recommended to replace these with flange head bolts which makes it easier to position guide fence.

Locate the guide fence onto the top of the saw table. Because this fence grips both front and back of the saw table when it is locked into position it is not possible to adjust the fence's alignment when it is locked. This must be done with the locking lever raised.

Whilst firmly gripping the front of the guide fence against the side guide board (#87) move the other end of the fence so that it aligns with the mitre fence Tee slot in the saw table.

x4 securing bolts.

Here the Allen head screws have been replaced by M6x16 flange head bolts which offer better stability when trying to adjust the fence.

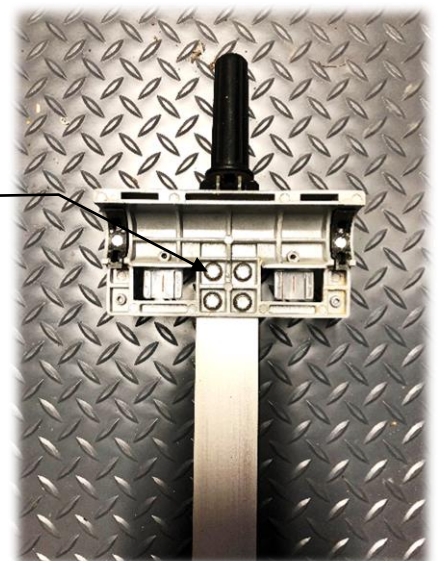


Figure 3A

Carefully remove the guide fence and tighten the four bolts underneath. Then recheck the alignment by refitting it back onto the saw table.

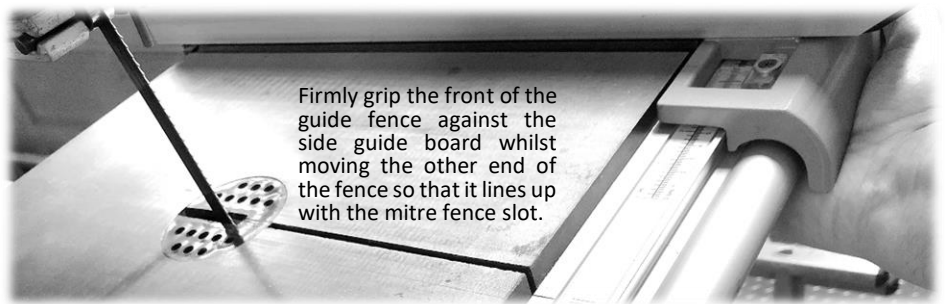


Figure 4A

Suggested modifications

Add a side guide board index mark (#87, fig 6A). After centralising the side guide board to the front of the saw table add a scribe mark to the side guide board that aligns with the saw blade slot in the saw table. This will allow easy refitting and alignment of the side guide board if it has been necessary to remove it.

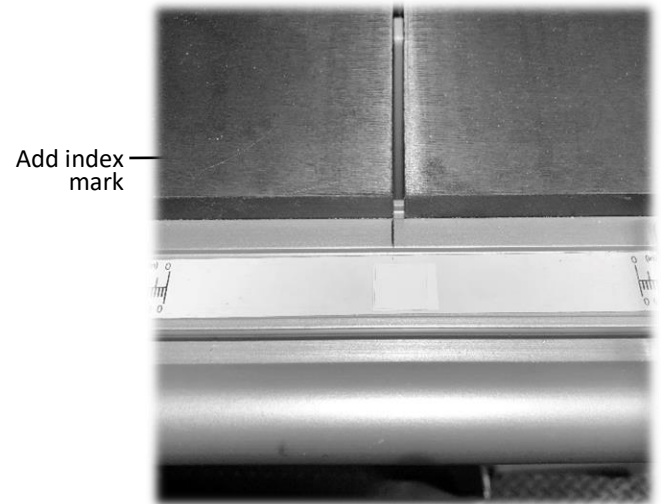


Figure 5A