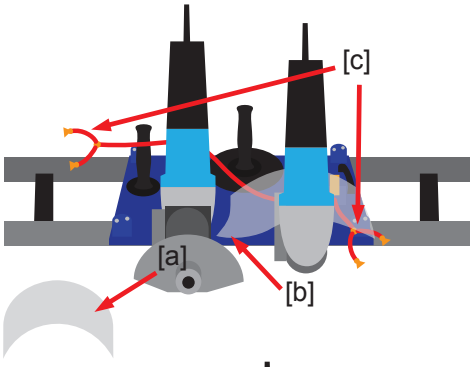
How to Align the Blue Ripper Miter Master™ Rail Saw

Step 1: Setup

Set the Blue Ripper Miter Master on the rail.

Note: make sure both of the Makita grinders are unplugged to prevent damage and injury from accidental activation.

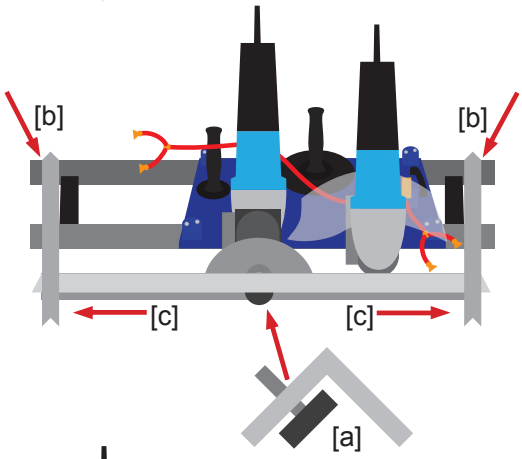
Remove the plastic water shield on the Shielded Template Guide Assembly [a], and lift the edge of the Skirt side water shield [b] to get them out of the way. Also make sure the water system hoses are up and out of the way [c].



Step 2: Alignment and levelling bars

Attach the alignment bar onto the countertop arm spindle with the peak facing upwards and tighten it onto the spindle [a].

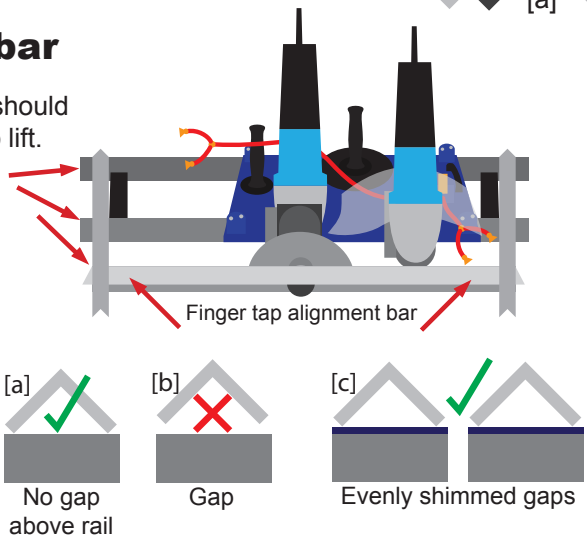
Set the angle aluminum levelling bars on top of the rail so that they are aligned with the back edge of the rail and hang over the front edge on either side of the machine as shown [b]. Slide the levelling bars out to the edges of the alignment bar [c].



Step 3: Settling the alignment bar

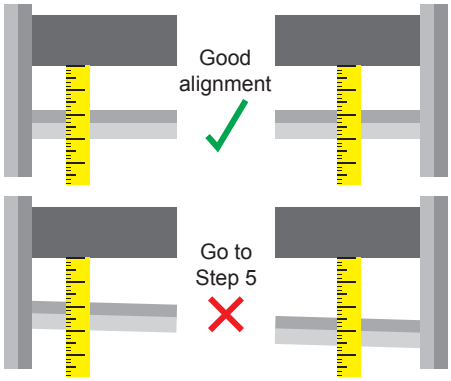
Gently tap on both sides of the alignment bar. There should be no motion that does not cause the levelling bars to lift. The levelling bars should be touching the back rail, front rail, and the alignment bar without any gaps [a].

If you do have a gap between the rail and the angle aluminum [b], then even up the alignment bar so that there are equal sized gaps on both sides. Take care as uneven gaps can throw off your measurements. Slide shims of paper, plastic, or metal of equal size under both ends to make sure the gap is eliminated [c] and your measurements are accurate.



Step 4: Measuring the alignment

Use an allen wrench or a measuring device to measure the distance between the rail and the peak of the alignment bar next to the angle aluminum. Compare the distance on both sides. If the difference is less than 1/16 of an inch, then the alignment is good. If the difference is greater than 1/16 of an inch then proceed to the next step.

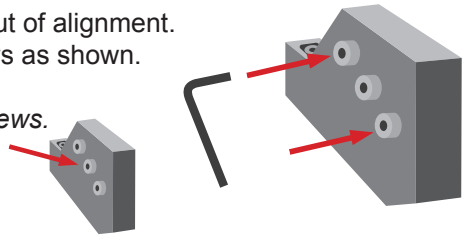


Step 5: Correcting the alignment

If the spindle is not properly aligned, then determine in which direction it is out of alignment. Using a ¼ inch allen wrench, adjust the tightness of the two alignment screws as shown.

Note: make sure the middle screw is tight before adjusting the alignment screws.

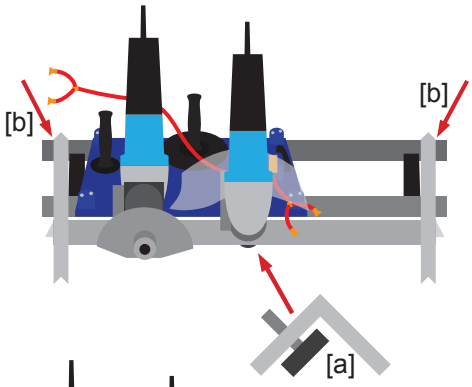
Repeat steps 4 and 5 until the difference between the two sides of the alignment bar is less than 1/16 of an inch.



Step 6: Alignment and levelling bars 2

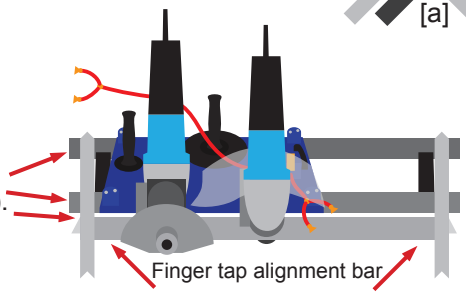
Remove alignment bar from the countertop arm spindle, flip it around so that the peak is facing up, and attach to the skirt arm spindle [a].

Place the angle aluminum bars on either end of the alignment bar with their backs flush with the back of the rail just like before [b].



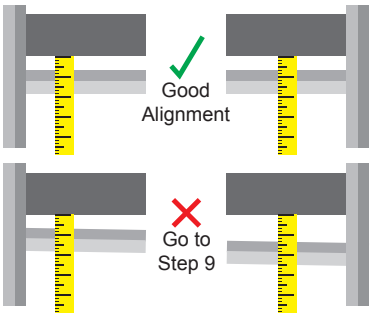
Step 7: Settling the alignment bar

Give the alignment bar a few taps on both sides to help it settle in and check to make sure you don't have gaps (see step 3 if there are gaps).



Step 8: Measuring the alignment

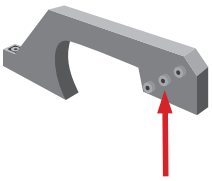
Measure the distance between the rail and the peak of the alignment bar next to the angle aluminum. Compare the distance on both sides. If the difference is less than 1/16 of an inch, then the alignment is good. If the difference is greater than 1/16 of an inch then proceed to the next step. Because the alignment bar is so close to the rail it can be hard to get an accurate reading. If that is the case, use a sharp cornered ruler or similar to measure the distance.

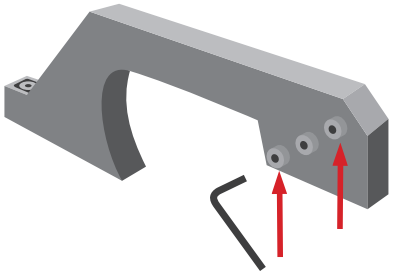


Step 9: Correcting the alignment

If it is not properly aligned, then determine which direction it is out of alignment. Then using a ¼ inch allen wrench, adjust the tightness of the two alignment screws shown here and then repeat previous step.

Note: make sure the middle screw is tight before adjusting the alignment screws on either side of it.





Notes:

Steps 2-5 and 6-9 can be switched as it doesn't matter which spindle is aligned first. For more information, extra tutorial details, videos, etc... please see the Omega Diamond, Inc. website: http://omegadiamond.com/AlignBRMM