



MORTISE & TENON JIG

No. 870

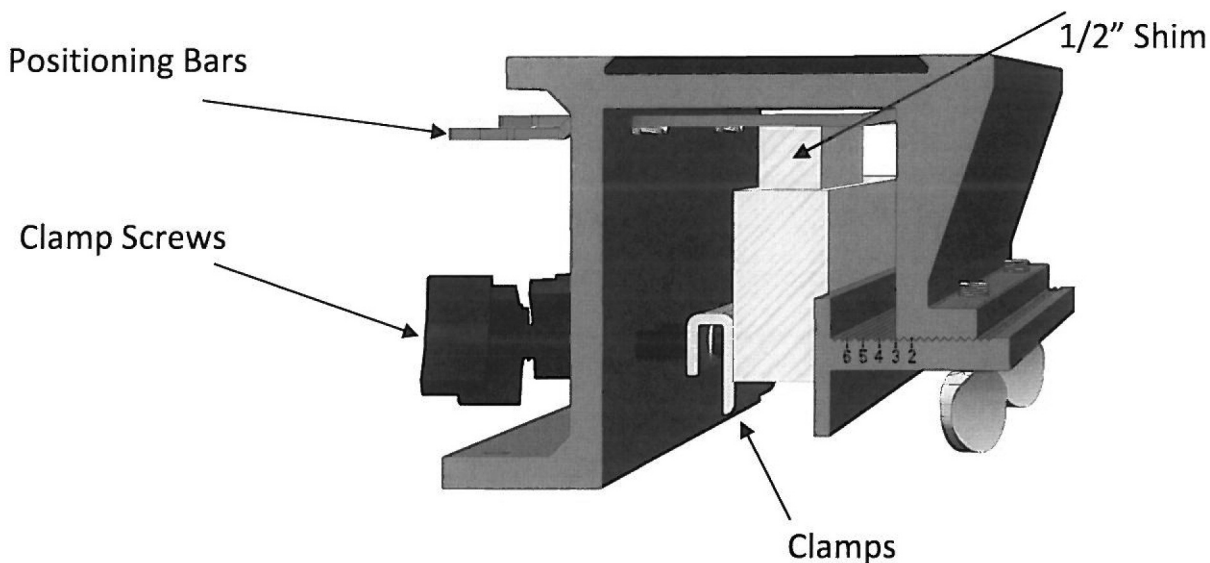
ADDITIONAL TIPS & TRICKS

TWO WAYS TO MORTISE A WORK PIECE THAT IS LESS THAN 2" WIDE

Method #1

The center of the clamp which holds the work piece is 2" below the positioning bars so if you wish to clamp stock in the jig for mortising that is less than 2" wide you'll need to position the stock using a 'shim' as well as re-setting the bit in the router to accommodate the width of the shim.

Assuming you were going to mortise a work piece that was 1-1/2" wide. You would use a 1/2" shim and place it on top of the work piece when bringing it up to the positioning (swing) arms. You would then tighten the clamp screws and retract the positioning arms and remove the shim before cutting. Adjust the router bit depth by increasing it by the thickness of the shim (in this case 1/2") over the desired mortise setting.



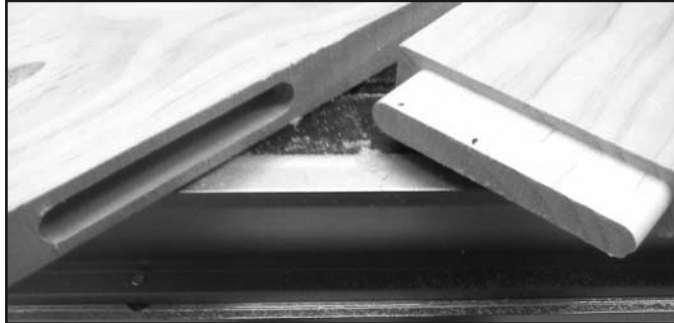
Method #2

The second method would be to have a work piece that was twice the width of your finished work piece (plus the kerf of your circular saw blade). Then you would cut your mortises on both sides of this piece. Follow the regular mounting instructions and after completion of the mortise cutting you would simply rip the work piece lengthwise (in half) yielding two finished pieces.

TWO WAYS TO ELIMINATE OR REMOVE THE "FENCE" WHEN CUTTING TENONS

Method #1

On a 3/4" thick piece of wood if you cut a 3/8" tenon with the 3/8" bit. This will create joints with no fence. Simply use the corresponding bushings as directed on Fig. 27 on page 13 of the instruction manual for mortise and tenon sections.

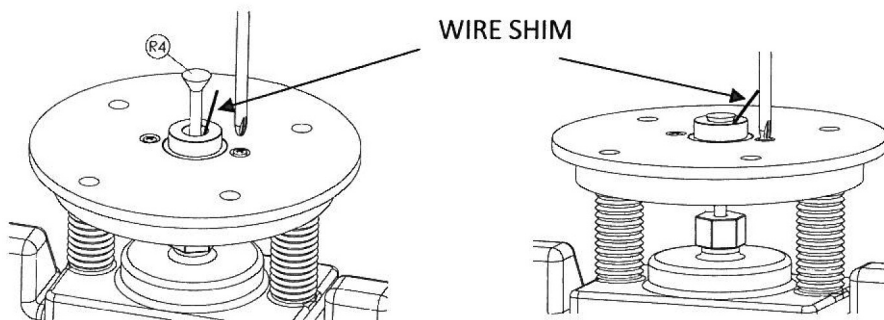


Method #2

Using the same example as Method #1, if you wanted to cut a 1/4" tenon on a nominal 3/4" thick piece of wood you would use the 1/4" bit and bushing to center the tenon and make the appropriate cut, but then, replace the 1/4" bit and bushing with the 3/8" bit and bushing to rout off the fence. This will clean-up the joint leaving no remnants of a fence.

How to Adjust the Fit of the Mortise and Tenon

The E•Z Pro Mortise & Tenon Jig is designed to make a "line-to-line" fit of the tenon onto the mortise which insures a tight close fit. If a looser fit is desired, this can be accomplished when centering the guide system (see "*Centering the Base Plate and the Quick Change Guide System*" on page 5 of the instructions). Insert a fine wire shim of about a 1/32" between the cone of the centering pin (R4) Fig. 4 on page 5, and the base plate before retracting the base plate onto the centering pin and then tighten the base plate screws. Thus, the router base plate will be offset to create a gap equal to the diameter of the shim between the mortise and tenon when cutting.



A practice cut with different size shims may be made to establish the preferred tightness or looseness of the fit. Of course, as an alternative, the tenon may be sanded down to establish the desired fit as well.

If, at any time, you need additional help, feel free to call a wood joining expert at General!



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