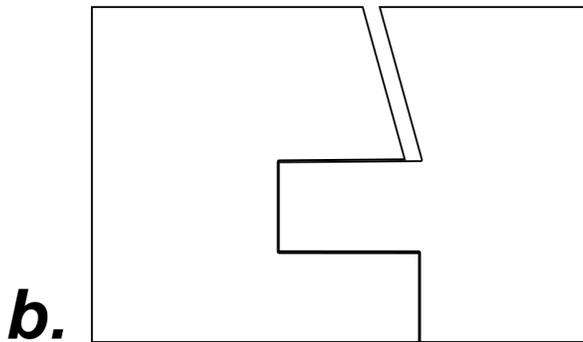
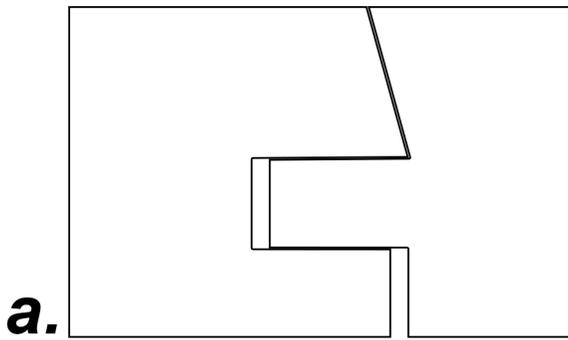


A common issue that occurs with the Shaker rail-and-stile router bit set is that the design or upper part of the rails protrudes or recedes more than necessary, which can trick the user into thinking that the blades were not machined properly. This is not a manufacturing defect and can be resolved by either removing or adding a thin shim or two at the correct location on the arbor.

In diagram *a*, one or two shims should be removed from the shim location on the bit.

In diagram *b*, one or two shims should be added to the shim location.



The reason for this is that when a diagonal line intersects a horizontal line, the intersecting point can be moved left or right by simply raising or lowering the diagonal line without actually moving it left or right. You can see how this works in the illustration to the right.

The same holds true for the Shaker router bit set, which has a diagonal blade. If the diagonal blade were to be separated or made closer to the slot cutter, the same effect will occur and the blade will cut deeper or shallower on the upper part of the rails.

