

WOODLINE USA
Drop Leaf Joint Instructions

Drop Leaf joints work smoothly and are an interesting design function. They are simple to make using the Woodline USA drop leaf kit WL 2033. These bits feature not only the required radius and cove but have built in allowance for fit and straight portions of the joint.

The only part that is a little tricky is laying out the hinge so the gap is uniform and the joint operates smoothly.

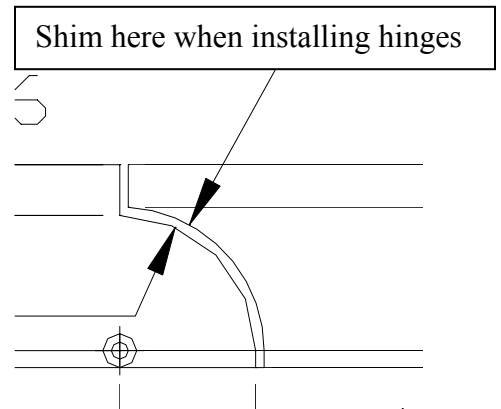
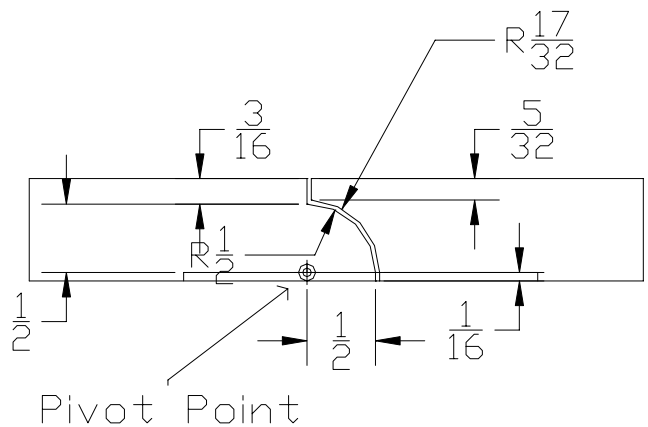
Assuming the use of $\frac{3}{4}$ " material the roundover begins $\frac{3}{16}$ " down from the top edge. If the material is thinner reduce the drop by the amount the material is thinner than $\frac{3}{4}$ " If thicker then add to the drop.

1. Cut the roundover. On $\frac{3}{4}$ " material the $\frac{1}{2}$ " radius with a $\frac{3}{16}$ " drop will result in a $\frac{1}{16}$ " straight portion at the bottom of roundover
2. Cut the cove leaving a $\frac{5}{32}$ " lip at the bottom of the cove portion (assuming $\frac{3}{4}$ " material) The cove will have a $\frac{3}{32}$ " flat area at the top of the board.
3. Layout the mortise and set the hinges so the centerline is $\frac{1}{2}$ " from the beginning of the roundover per the drawing. The hinge pivot point should be precisely located in relation to the joint. The center line of the hinge pivot must match the

radius of the round over bit. The drawing shows the relationship between the hinge and the joint.

4. Mount the hinges with sturdy screws. Use a $\frac{1}{32}$ " shim at each end of the joint to make sure the spacing is uniform.

The cove is $\frac{1}{32}$ " radius greater than the roundover and is



designed to exactly match the spacing needed for the joint clearance.

