

Turning Instructions for Winged Serving Tray on a 16" Lathe

Material: 16" long x 13", at least 1" thick

Sizing up the piece: Determine what side will be the top. The top will be hollowed out so the bottom may be the best side.

Layout: Find the center of the piece on top of work piece. Draw a line across it. Draw a $7\frac{7}{8}$ " arc from the center to both ends. Measure $7\frac{7}{8}$ " in from both sides on the center line, draw a $7\frac{7}{8}$ " arc from these two locations.

Cut out blank: Cut out blank along the four arcs, two on each side and the two at each end.

You will have three center points along the center. At this time, I drill a $\frac{1}{8}$ " hole about $\frac{1}{2}$ " deep and use my circle jig on the band saw to cut out the blank.)

At the three center point holes, there needs to be drill for screw chuck, if the work piece is not thick enough to use screw the chuck, then a Forstner bit can be used with a chuck reverse tendon. The Forstner may overlap some, but they need to be the same depth.

Chuck the work piece using the center turning point. Use the tail stock and center tool to locate and glue a sacrifice tendon to the bottom.

Turning: The work piece is chucked at the center point and the center tool jammed on the sacrifice tendon. Turn the ends of work piece. This will all be end grain, be sure your tools are sharp and go slow.

Relocate piece to one of the side turning points. On the bottom side, place a piece of wood to keep the center tool from prying the bottom when used as a jam. The work will be off center, bring up speed and clean up the side. Relocate to the other side turning point and clean it up.

Relocate piece back to the center turning point. Mark on the bottom to outline the outer side wall of the tray. Start to form the wing and the outer side of the tray on the bottom. Think about what you would like it to look like on top side. Form both top and bottom of the wing and outer side of the tray.

Clean up the bottom, it should be slightly concaved to the sacrifice tendon attached to the bottom so it will sit flat.

Turn the piece over and chuck to the sacrifice tendon, jam the center tool on the top side. Start to remove material from the inside of the tray. Start removing the wood from the outer edge to the center and work your way in, a section at a time.