

# Shaker Presentation Box Demonstrated by Steve Van

Peaks Woodturners Jan. 10, 2012



## BOTTOM

- A. Cut square piece of wood. Mark center of each side of wood.
- B. Cut into a circle
- C. Put tail stock center into center of circle and jam chuck it to chuck face and turn a tenon that will fit into your chuck.
- D. Turn circle around and center it into your chuck and tighten - keep tail stock tight into center of wood then round the outer surface. Once this is round, you can begin hollowing out the center **except** under the tail stock center (leaving this for support and safety. This will help you remove wood efficiently. Remember to keep the sides even going toward the bottom and flatten out the bottom (Stivers tool). It is important to have a 90 degree bottom for this box. Finish sanding the side of the box.



- E. Remove the center post and finish off the inside bottom and sand. You should finish off inside of the box at this point as it is the last time you will be working on the inside.

## Shaker Presentation Box Demonstrated by Steve Van

Peaks Woodturners Jan. 10, 2012

- F. Using the center point on bottom of tenon, put the tail stock up with the box against a face plate (home made is fine). Then, using a hot glue gun, glue the box to the face plate at 4 spots and let glue cool down. Work off the tenon (this should not be a fat tenon, no more than 1/4", so there isn't much to remove)... sand. Make sure the bottom surface is slightly concave so the box will sit properly. Then, using the lightest of touch, remove the tail stock and do the remaining 1/2 inch of center of tenon...and finish sanding...**remembering you have finished all of the bottom except 1/2 inch before removing tail stock. At this point only the glue is holding the item to the face plate.**

### TOP

- A. Cut square piece of wood 1 inch larger than bottom piece. MARK CENTER POINT ON EACH SIDE WHILE STILL SQUARE.
- B. Cut into a circle that is 1 inch larger than the bottom circle (box).
- C. Put tail stock center into center of circle and jam chuck it to chuck face (or face plate) and turn tenon that will fit into your chuck.
- D. Turn circle around and center it into your chuck and tighten on the tenon - keep tail stock tight into center of wood then round the outer surface. Leaving the center of tail stock on the tenon you turned, start shaping the top of the lid (up to the tenon). You can do some sanding at this point. By leaving the tenon and point hole you will know where to drill the hole for the top knob later.
- E. Since you can measure the inside diameter of the box bottom you know how far you need to cut into the side of the lid wood to create the recess (flange) that fits into the box bottom (use calipers). The lid should not be too thick and the flange can be sanded down a bit if it fits too tight.
- F. Flip the lid over and put the tenon into chuck and tighten. Use the finished bottom of the box to check the fit of the lid with the flange and adjust accordingly. Then start hollowing out the under side of the lid, try to keep thickness consistent **but leave enough at the top to drill a 1/4 inch wide hole for the knob** (and do not drill through the undersurface of the lid). Finish sanding and be sure to check fit.



## Shaker Presentation Box Demonstrated by Steve Van

Peaks Woodturners Jan. 10, 2012

### KNOB

- A. Cut square piece of wood that will allow for the knob dimensions. Put piece of wood in chuck and bring up tail stock. Rough into a cylinder.
- B. Do story board mark with a pencil, the top of knob (1) - bottom of tenon that glues into top (2) - the bottom of mushroom (3) top of tenon that glues into the top (4) and top of collar (5).
- C. Turn the top mushroom shape (1/6 the width of the lid) between the lines marked (except leave a small amount of waste where the tail stock attaches. This will be removed later.) Sand or wait until later.
- D. Turn the cove shape between lines - bottom of mushroom and top line of collar - you can refine this later if the shape isn't exactly right. Remember that the collar will be made smaller but you should use a caliper to make sure depth is correct on the cove.
- E. Turn the collar shape between lines undercutting the bottom of the collar ever so slightly so it sits well on the curved top of the lid.
- F. Redefine the shape to your liking if necessary and remove the tail stock and gently take off the waste. Sand the knob.
- G. Turn the tenon for glueing in diameter? Length will vary - 1/4 inch thick and 1/4 inch long for small box and a slightly larger tenon width (3/8) for larger box size. Do not sand - the glue will hold better. You can use a Stivers sharpened wrench tool to check diameter of tenon. You will know what size of Forstner drill bit you will need to make the hole in the lid depending on the size of the wrench you used to check. Sand and part off the knob.
- H. Drill the hole for the tenon and glue knob in hole. (You have the center point on top of the lid for placement of hole.)

