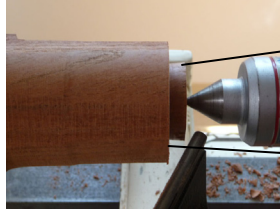


## Simple Lidded Box

1. Cut a ~3.5" section from a 2" square spindle stock.
2. Mount one end on a scroll chuck and support the free end with a revolving center.
3. Turn a tenon on the tail stock end to fit the chuck, making it smallest possible but will still chuck.



Turn the chucking tenon to fit jaws on your particular chuck, not necessarily dovetailed like this one.

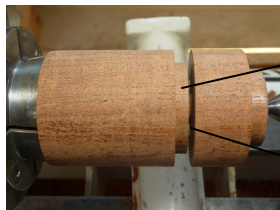
The tenon should be shorter than the height of jaws so the top of jaws butts against the shoulder on tenon.

4. Dismount the blank and re-chuck by the tenon just turned. (Mark "1" and line it up with jaw #1.)
5. Round the blank and turn a tenon on the other end. (Mark "1" on the end opposite to the "1" on the other end.)



Mark "1", which is on the same side as "3" on the other end.

6. With a 1/8" parting tool cut a groove ~1/4" wide x 3/16" deep ~3/4" from the shoulder of the tenon on the tail end, making sure the walls of the groove are perpendicular to the spindle axis.
7. Part off at the far end of the groove with a thin parting tool for the lid. (I use a 1/16" Ashley Iles thin parting tool.)



Groove cut with a 1/8" parting tool in step 6

Part off with a thin parting tool.

8. Bore out the box body to a desired depth with a Forstner drill bit (preferably carbide-tipped) ~1/4" smaller in diameter than the "tenon". It's a good time to sand the inside if you want it to be smooth.

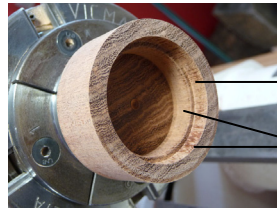


Drill is ~1/4" smaller than the tenon, which is ~1 5/8" in this case and the drill is 1 3/8".

9. Mount the lid blank from step 7 and drill to a depth of ~1/2" with the same Forstner bit in step 8.



10. Cut a female rabbet with a scraper (or skew)  $\sim 1/4"$  x  $1/16"$ , making sure the wall is parallel to the axis. This is a good time to sand the inside (NOT the rabbet) if you want the inside smooth.



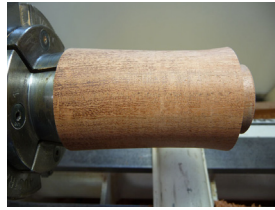
Rabbet  $\sim 1/4"$  long,  $1/16"$  deep  
Sand the interior and the inside edge with fine sandpaper,  $\sim 320$  grit.

11. Re-chuck the body and clean the outside of the tenon by scraping with a sharp  $1/2"$  skew so that it fits the lid snugly. Make sure the surface is parallel to the spindle axis.



Sand the edge with fine sandpaper,  $\sim 320$  grit.

12. Put the lid on the box and shape the outside to the desired form with a gouge. Be sure to bring up the revolving center.



13. Sand, part off the tenon on the lid and sand the top of the lid.



14. Apply finish. Be sure to pull the lid open slightly so that it does not get glued to the box.  
15. Remove the lid and scrape the tenon ever so slightly to get a good but not a tight fit. Make an undercut also.



Undercut

16. Jam chuck the box and finish the bottom.  
17. Mount another, shorter, square blank and repeat steps 1 – 4.  
18. Turn the spindle to a diameter that will fit the inside of the body. True up the end and part off two  $\sim 3/32"$  discs.  
19. Glue the discs to the inside bottom of the body and lid to hide the drill marks.  
20. Sand the bottom, sign and apply finish.