

Stave Constructed Beads of Courage boxes



AL MIOTKE



Last Delivery to Lurie Children's Hospital

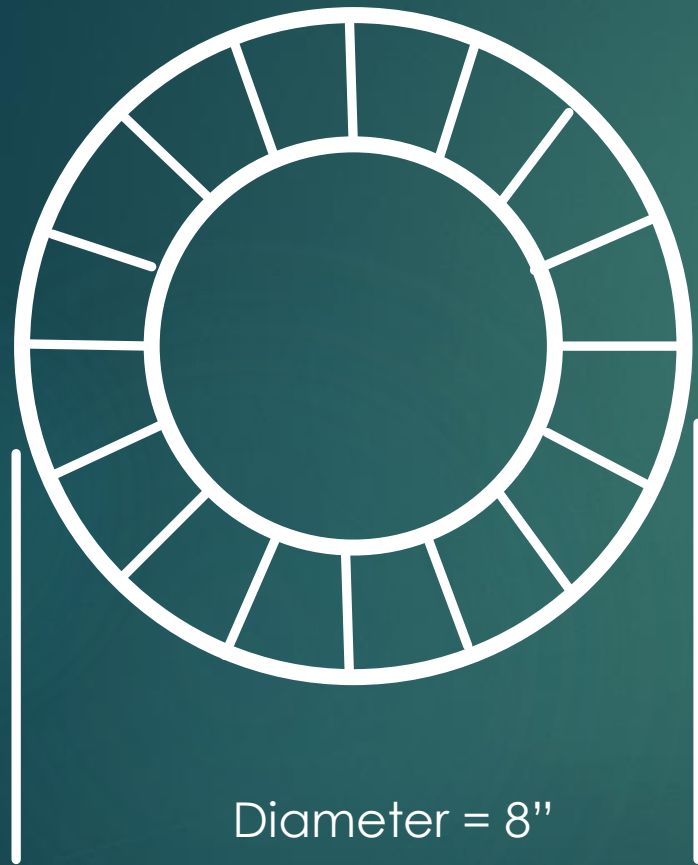


What is a Stave?

Strip of wood with vertical grain and beveled edges that can be assembled into cylinders



Box Dimensions = 5.5" high plus lid x 8" outside Diameter



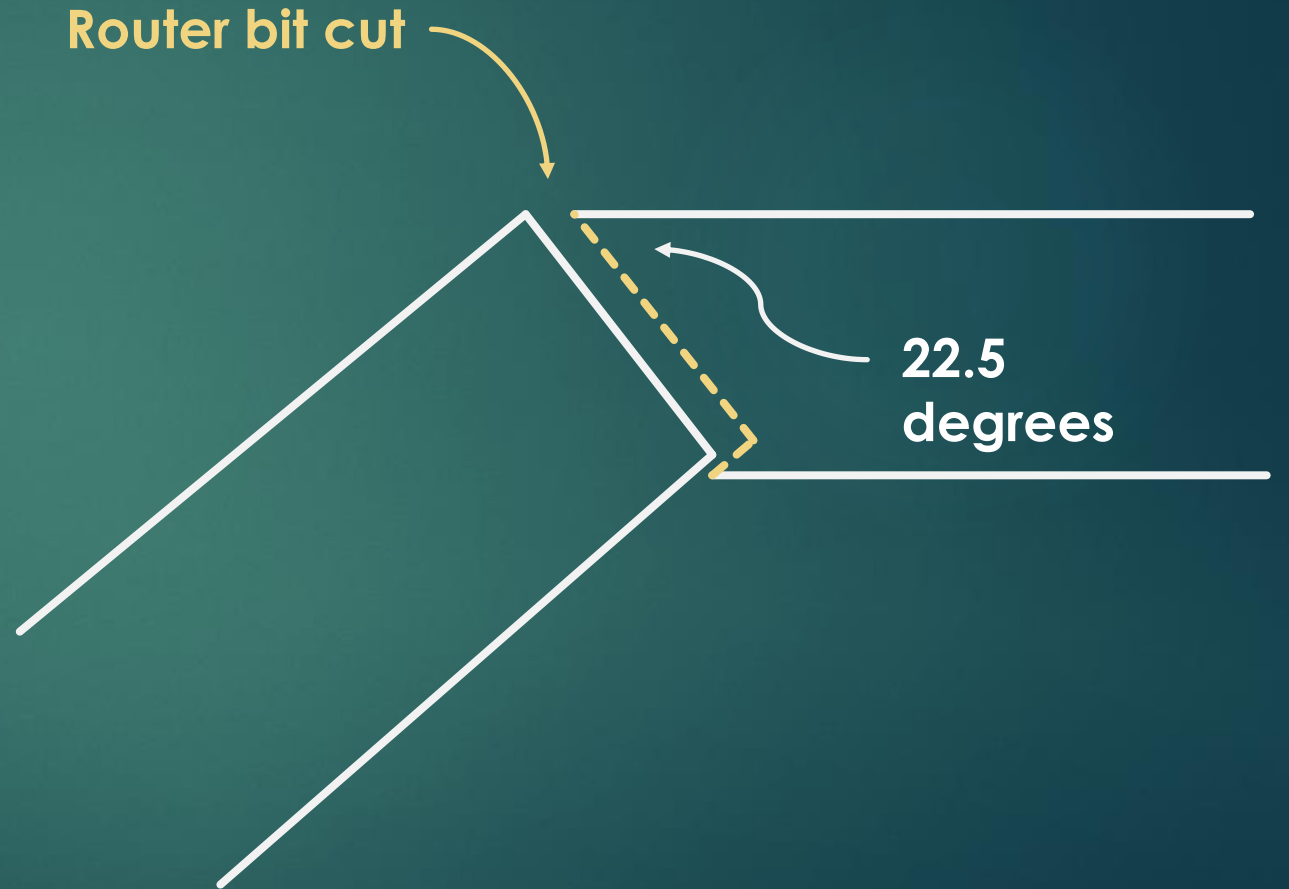
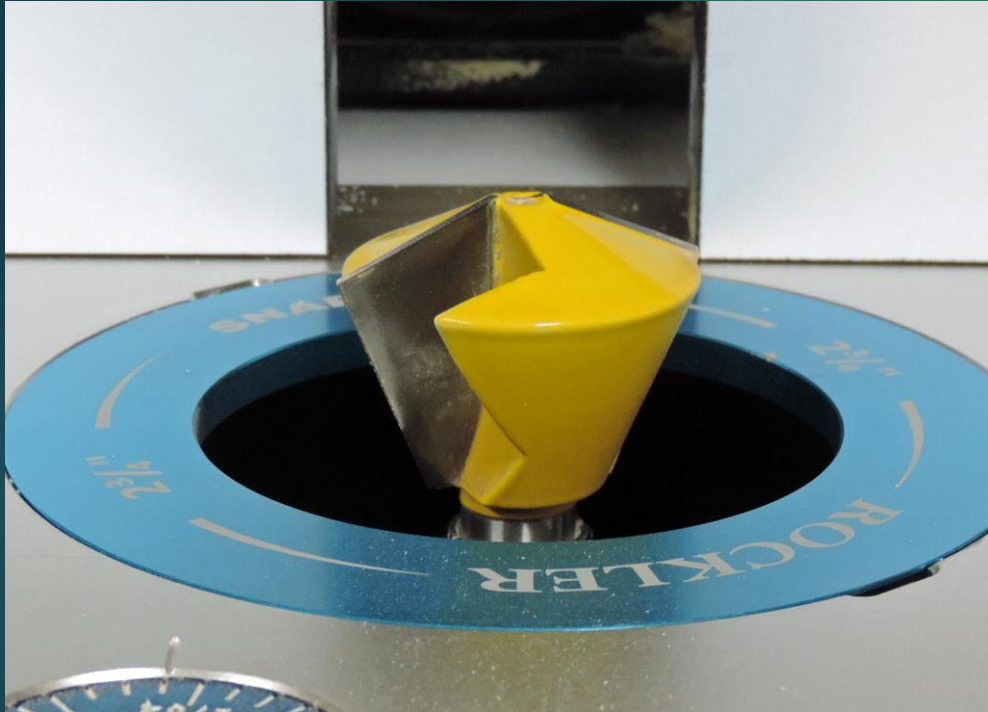
$$\text{Circumference} = \pi * \text{Diameter}$$
$$8'' * 3.14 = 25.12''$$

$$\text{Stave Width} = \text{Circumference} / \# \text{ staves}$$
$$25.12 / 16 = 1.57 = 1 \frac{9}{16}$$

- Glue some laminations to add color
- Plane boards to $\frac{3}{4}$ " and cut to width



Birdsmouth Router bit cut



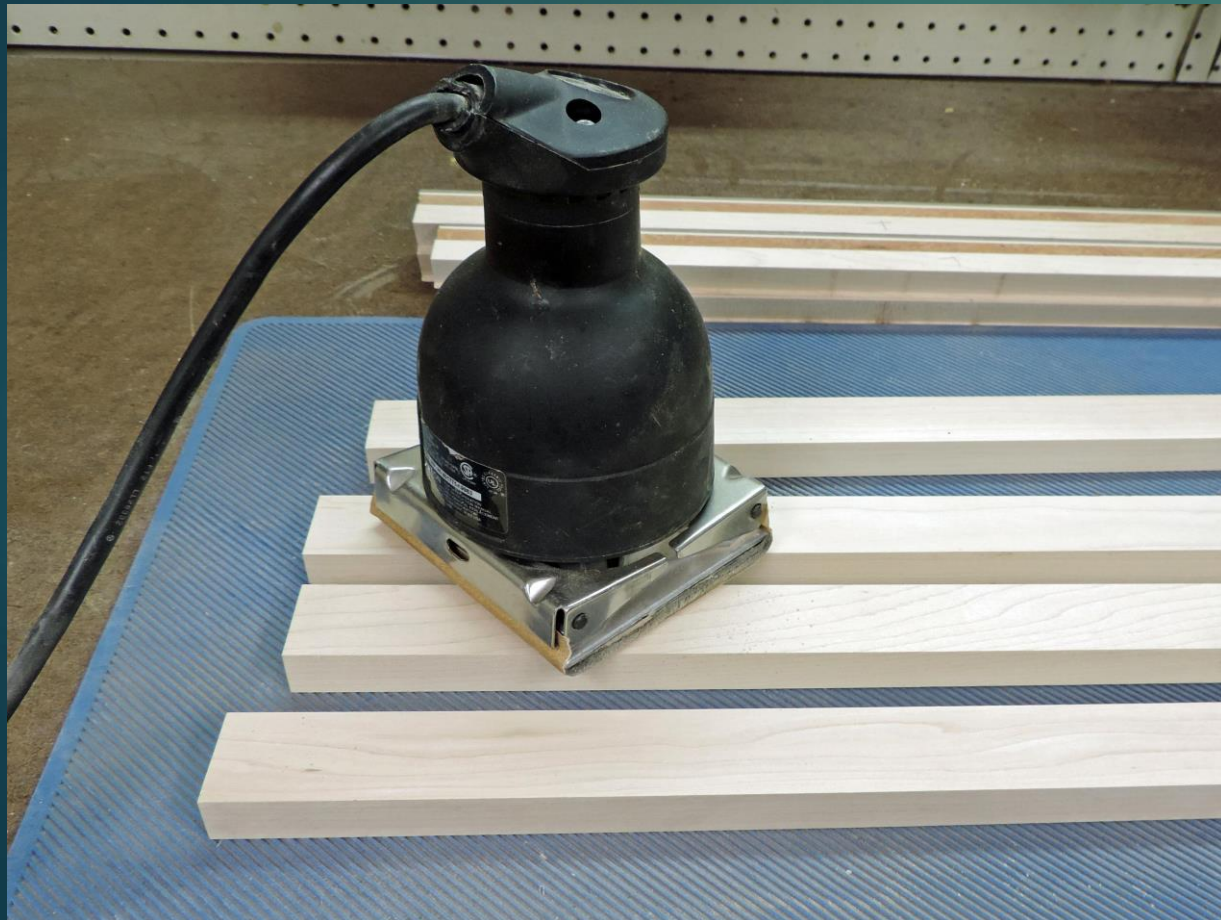
Route one side of each strip



Clean up the edge.



Sand then apply a finish to the inside surface. Also finish the 1/4" plywood disc that will be the bottom of the box

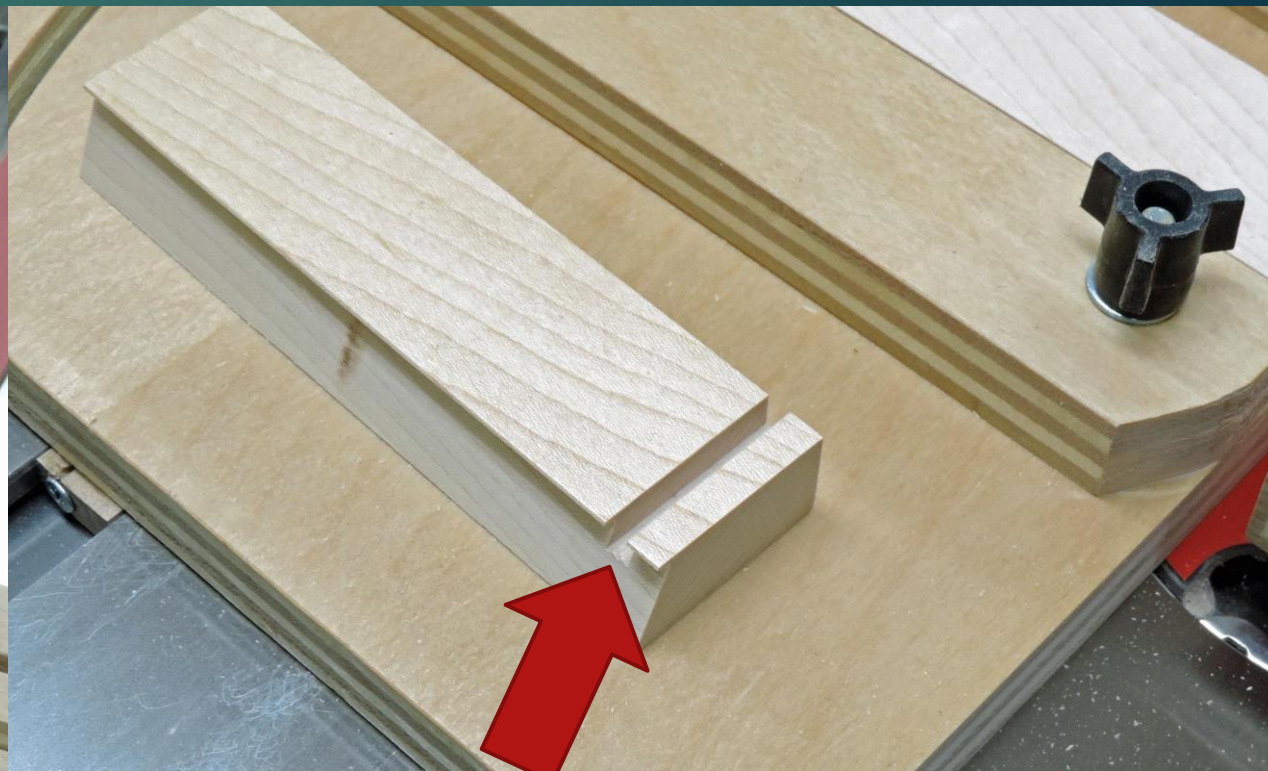
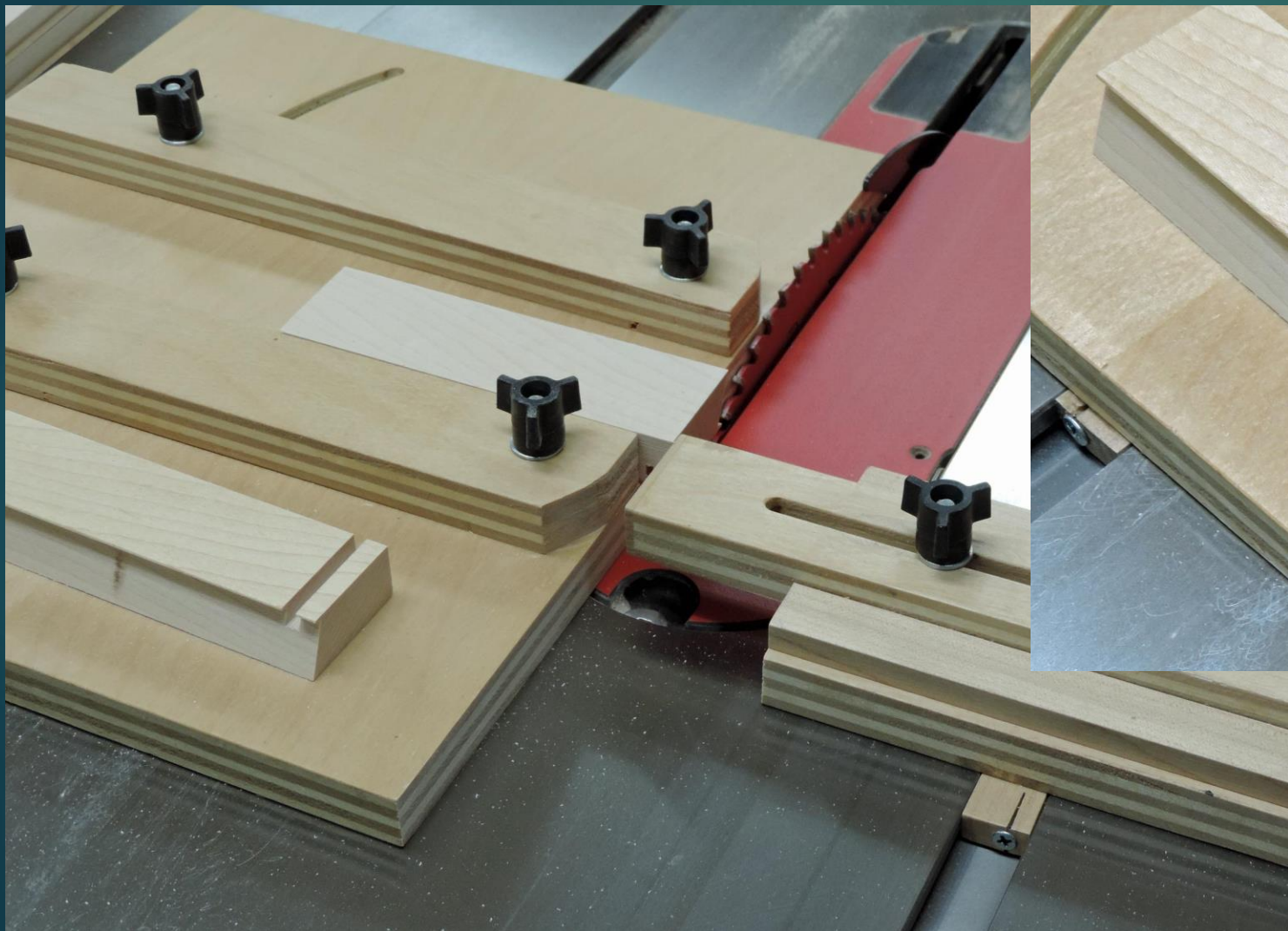


Calibrate the saw

Cut each Strip to desired length. 5.5" in this design



Use table saw to cut a dado



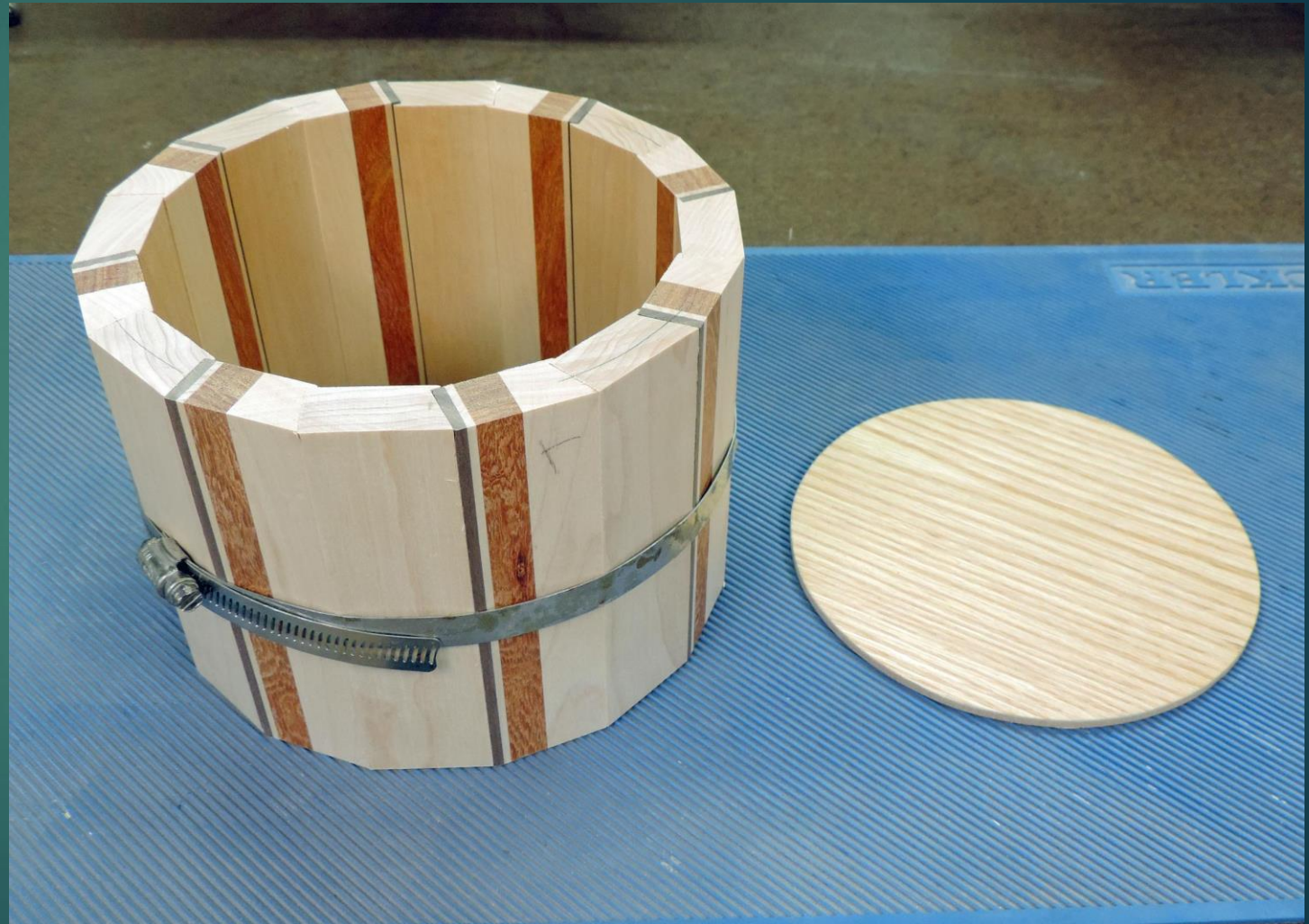
Best Glue to use



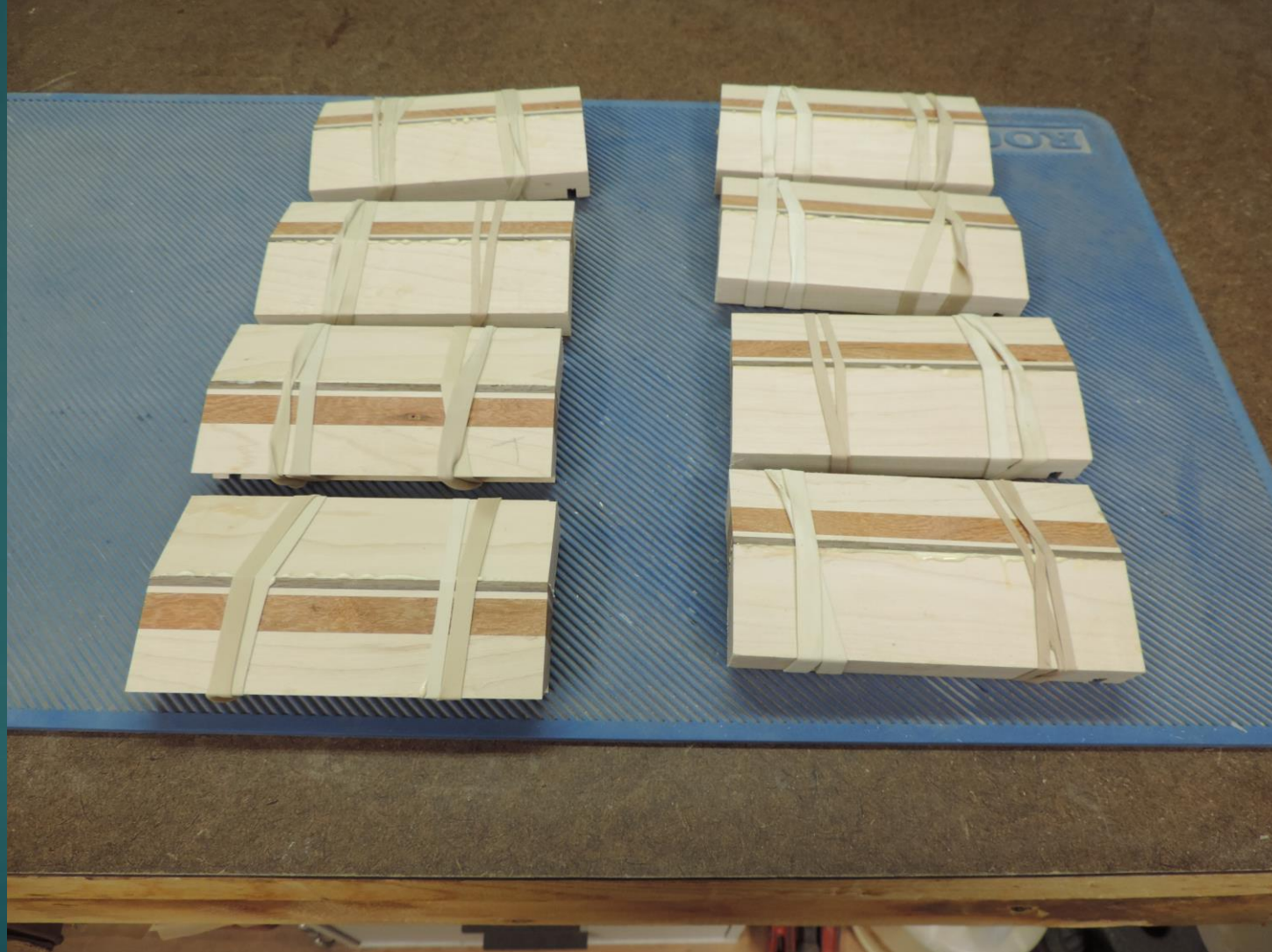
Failure mode of a proper glue joint



Do a dry fit to make sure all the joints are tight and the disc fits.



Option – Glue in pairs first



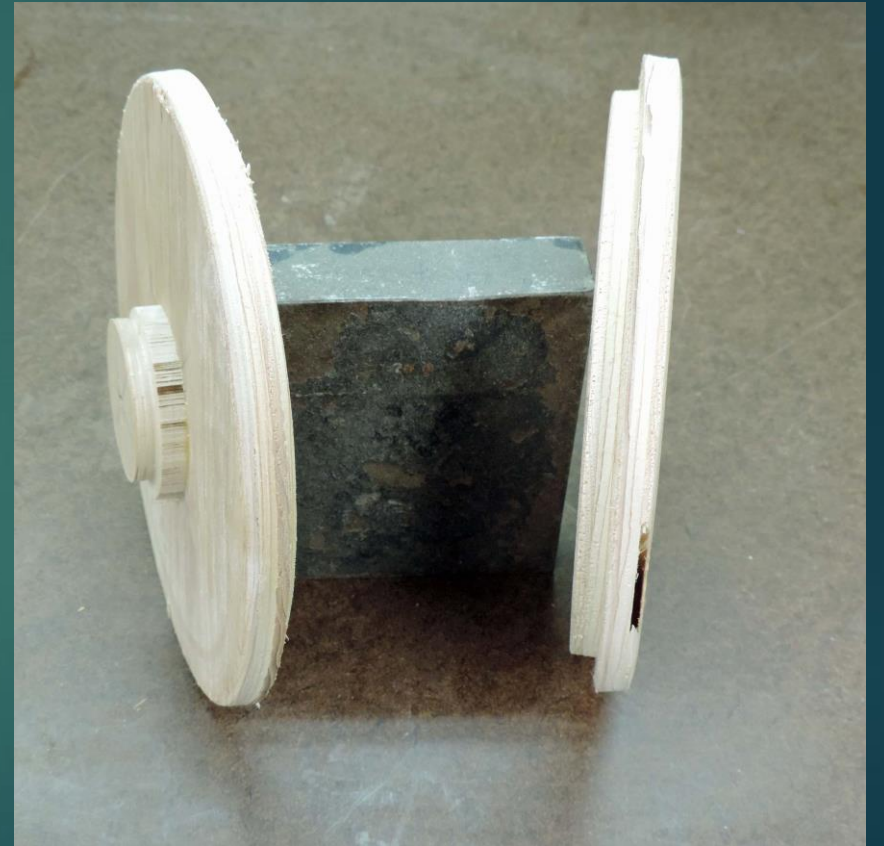
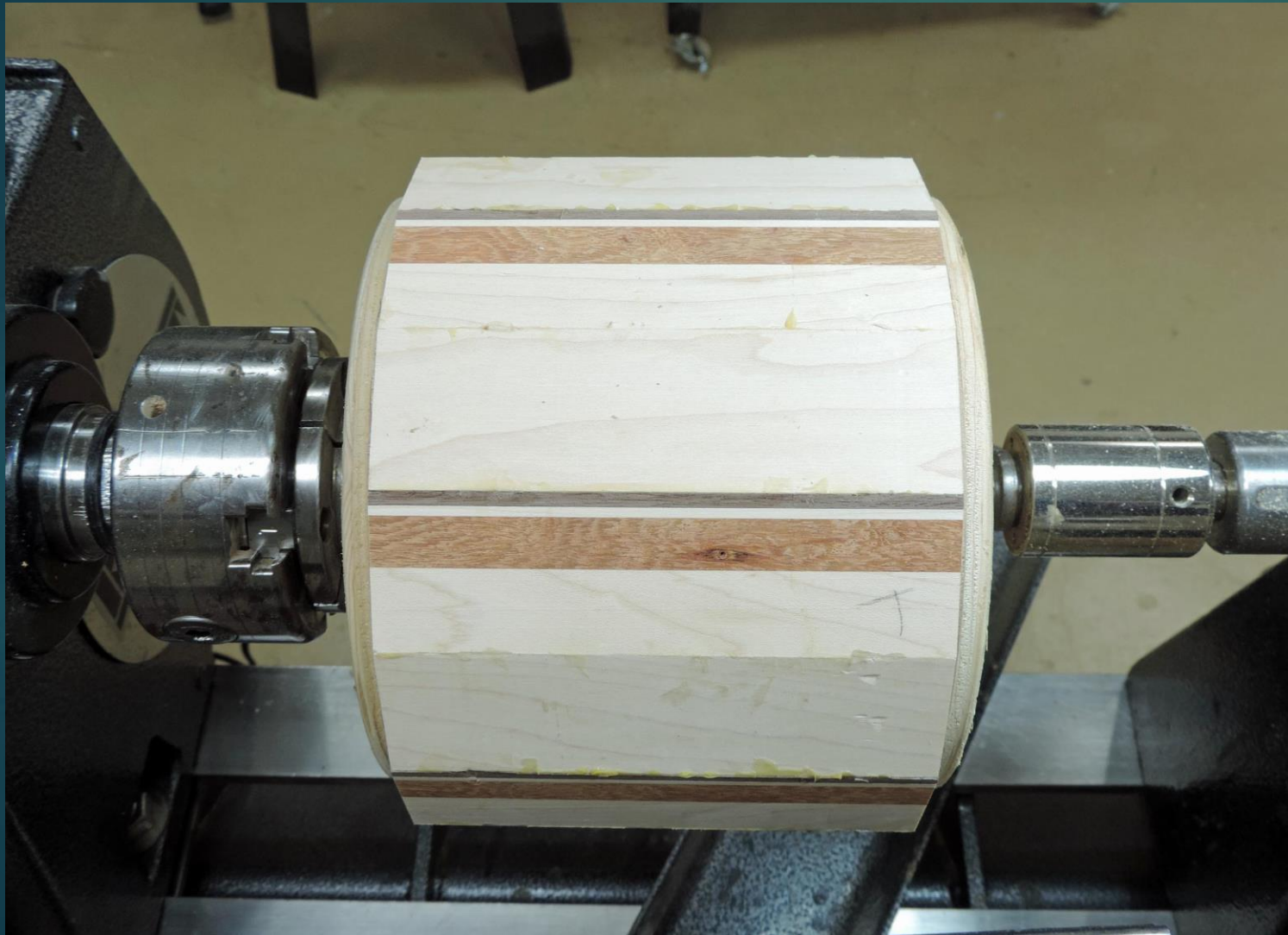
Place bottom
disc on the
standoff to
match the
height of the
dado



Final assembly of the box



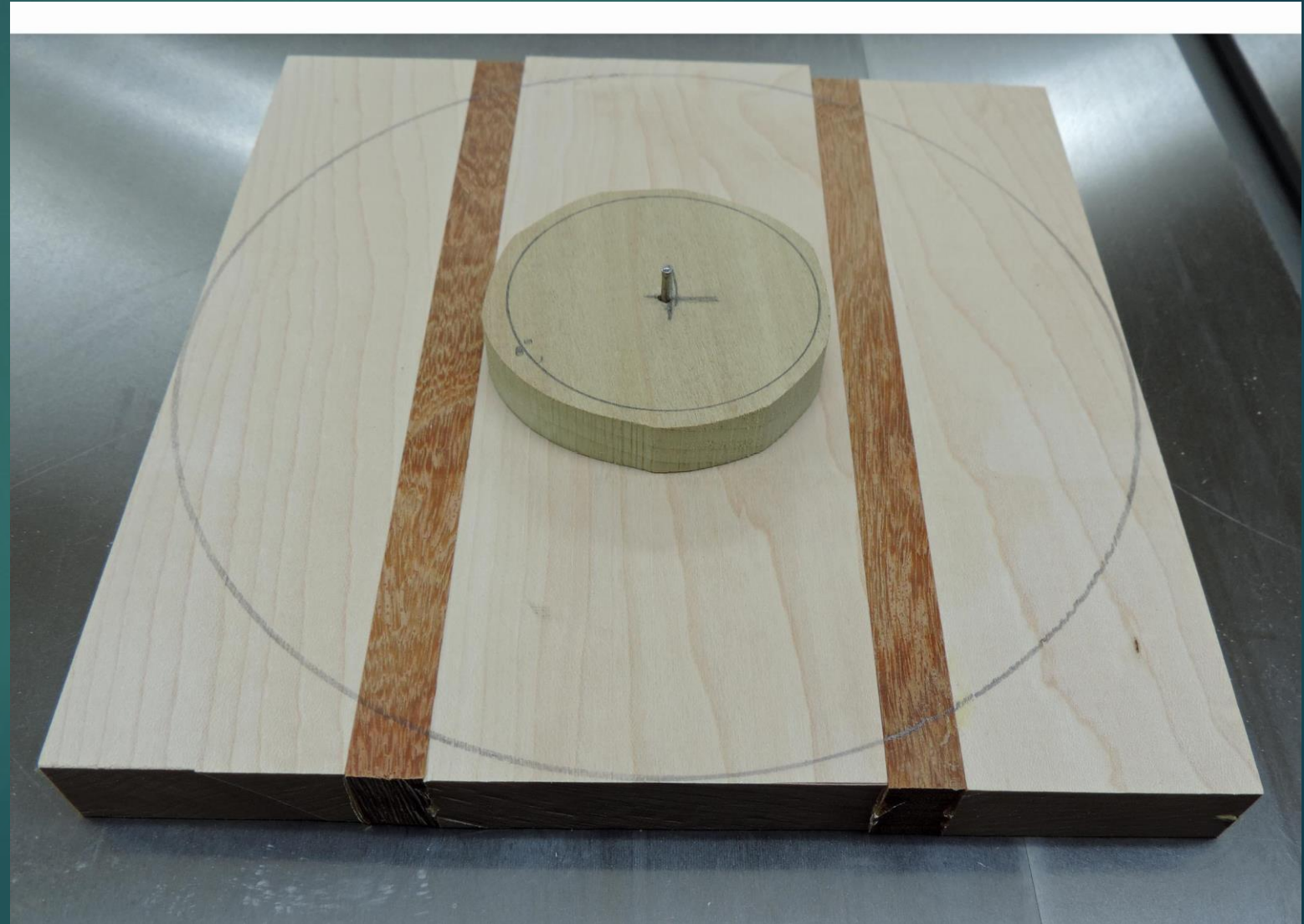
Turn the box between centers



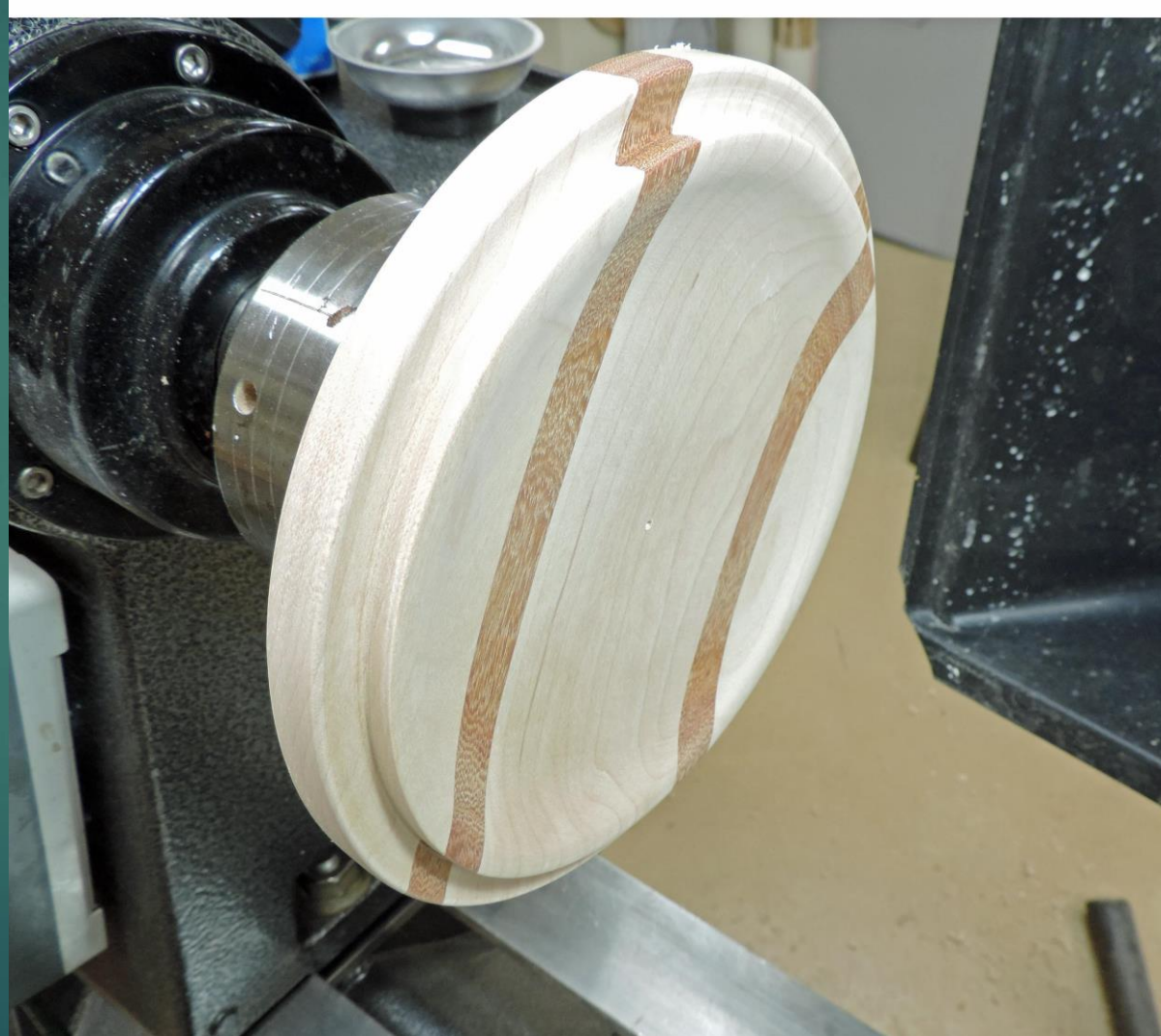
Prepare a laminated lid



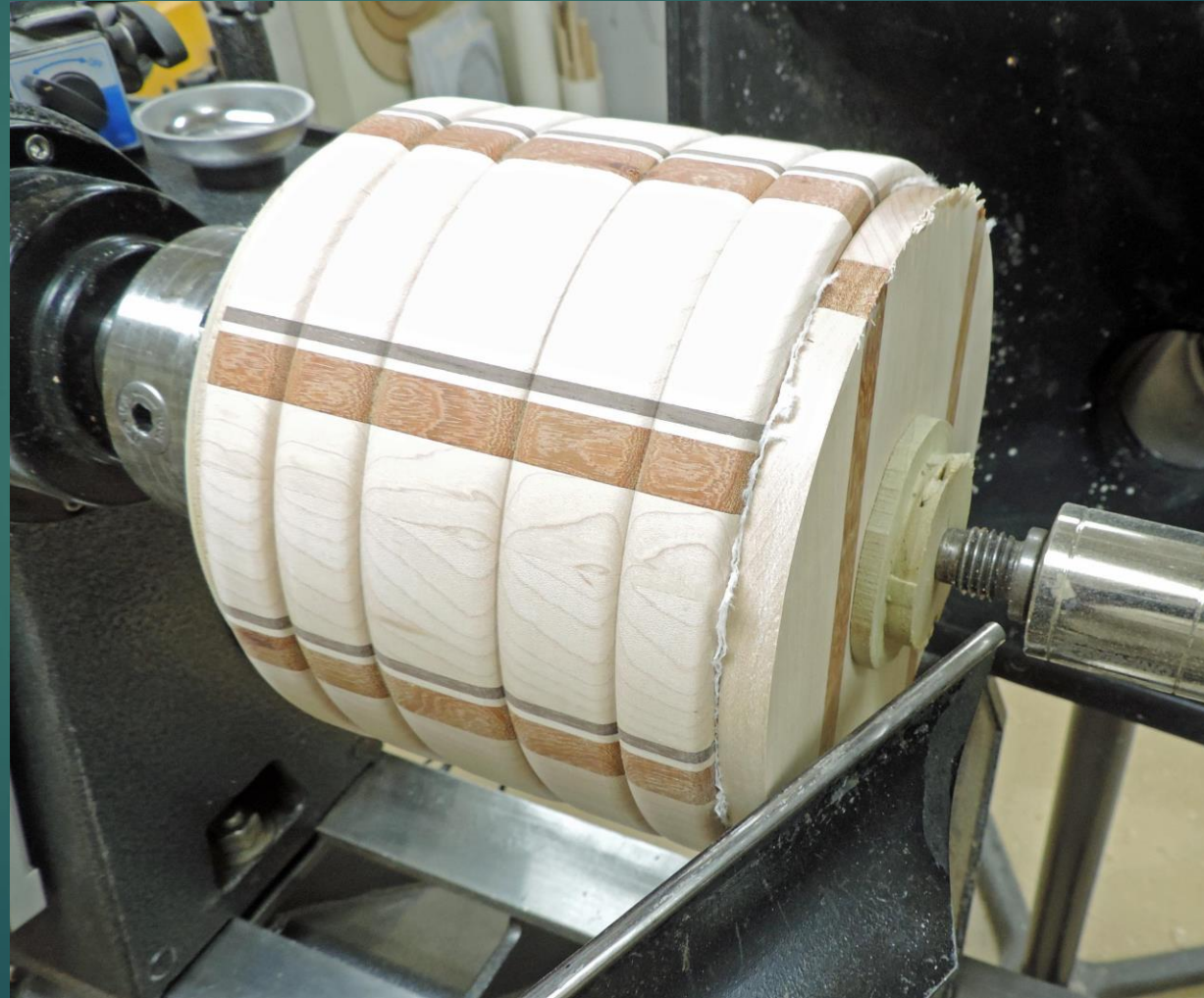
Make a tenon



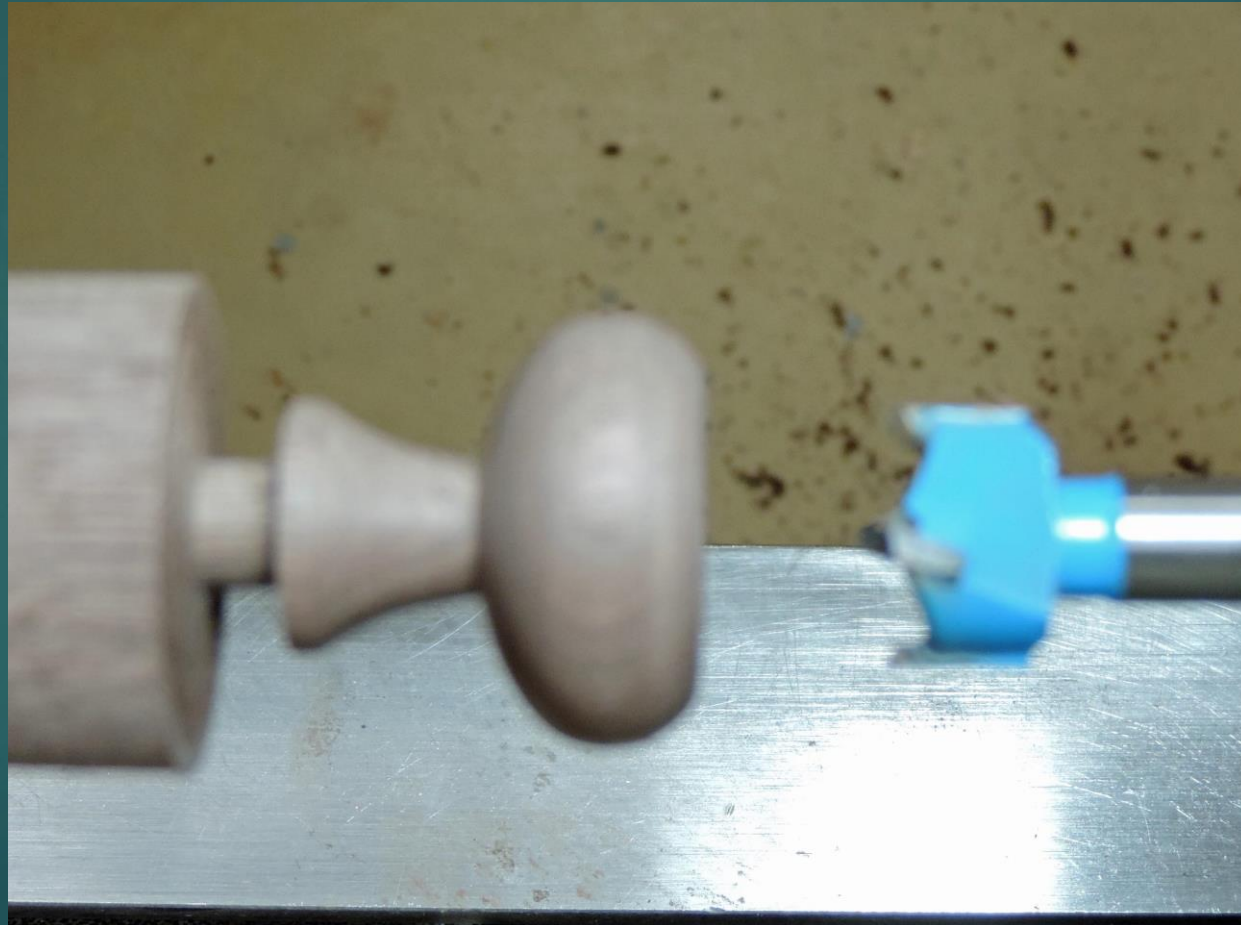
**Turn lid bottom to loosely fit
in the box**



Turn lid Top



Make a handle with a 3/8" tenon and drill a hole for the Bead.



**Apply finish of
choice and
your done.**

