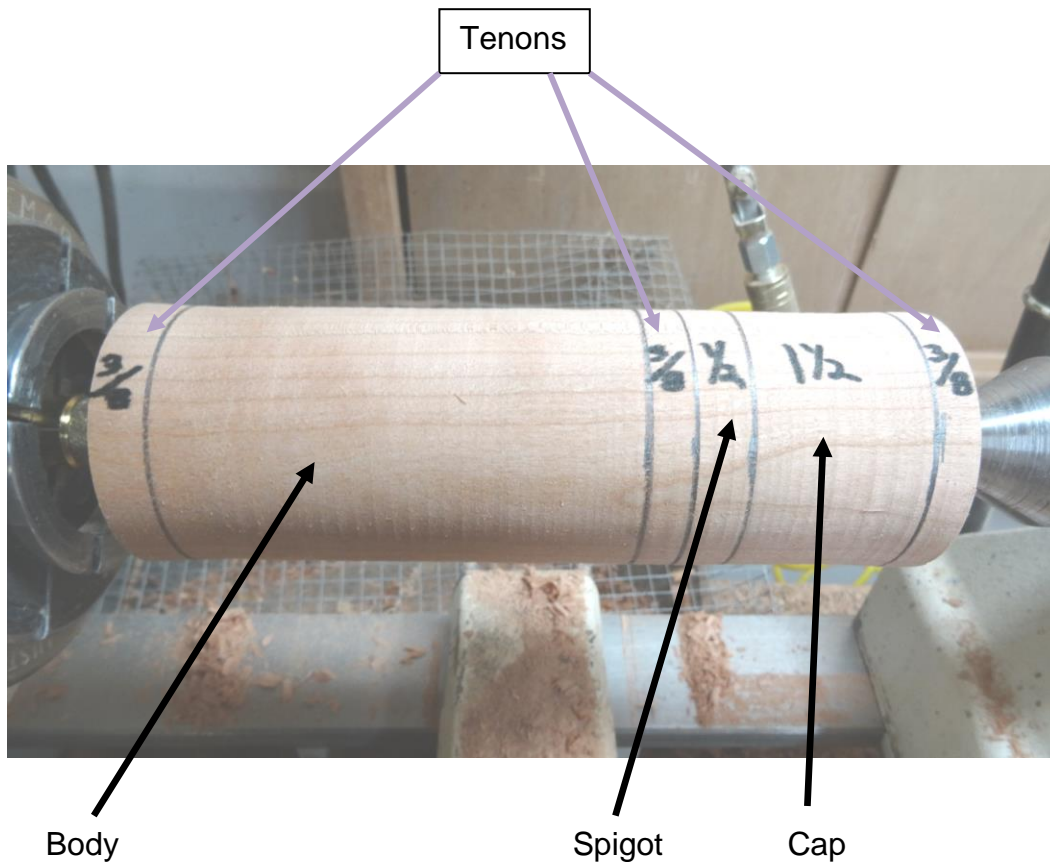


Turning a Traditional Salt/Pepper Mill

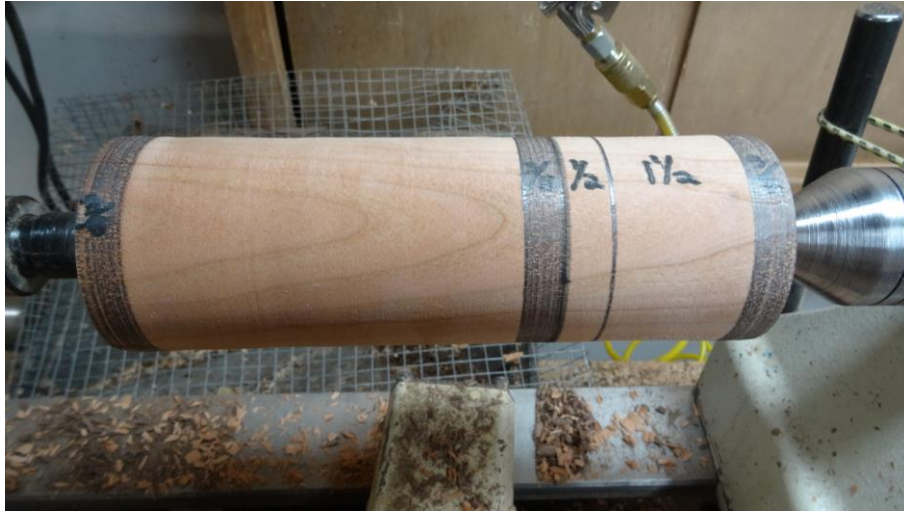
6" Mill

- ✓ Cut length of wood--- **7 1/4"**
- ✓ Turn to a cylinder.

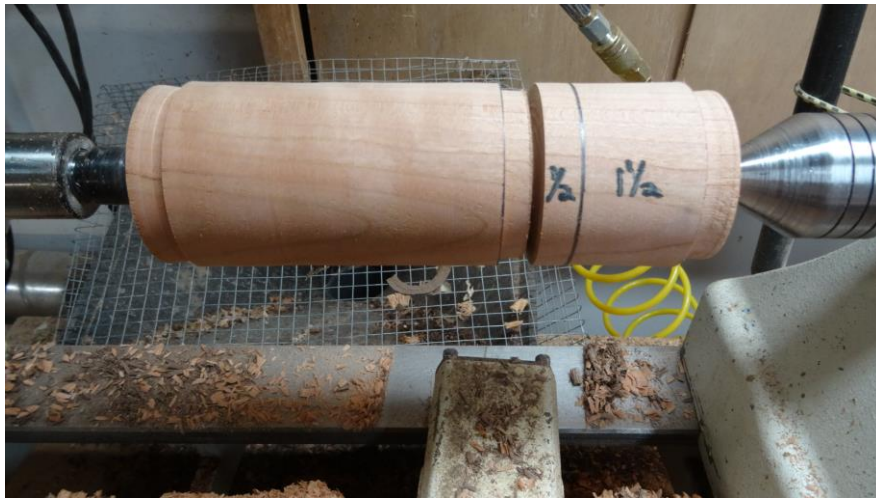


True both ends of cylinder with a skew or a spindle gouge.

Use a template to mark lines or measure them as shown above.



Mark and turn the tenons.



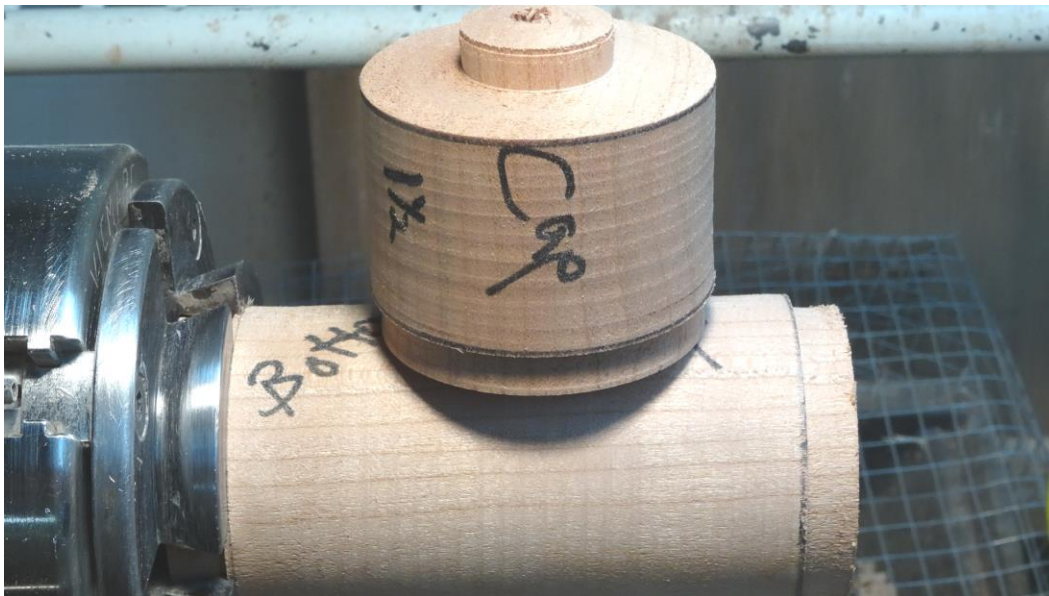
Label **Bottom**, **Top**, and **Cap**.

Turn a tenon for the spigot to 1 1/16". This will fit into the top later.

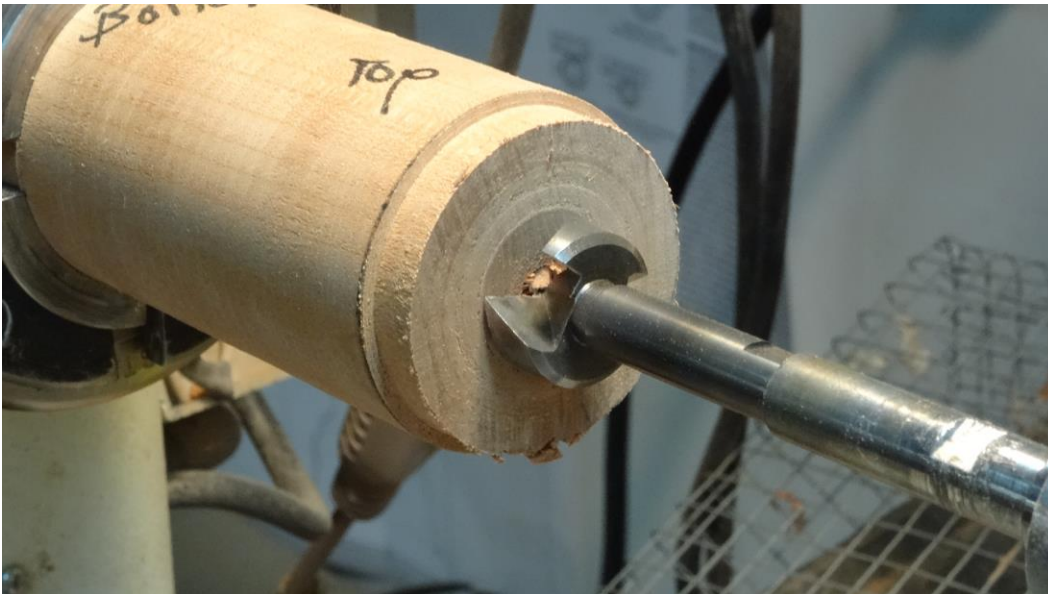


Drill a 9/32 hole through the **cap**, **tenon** and **top**.





Part and/or saw off the cap at the **bottom** of the spigot.

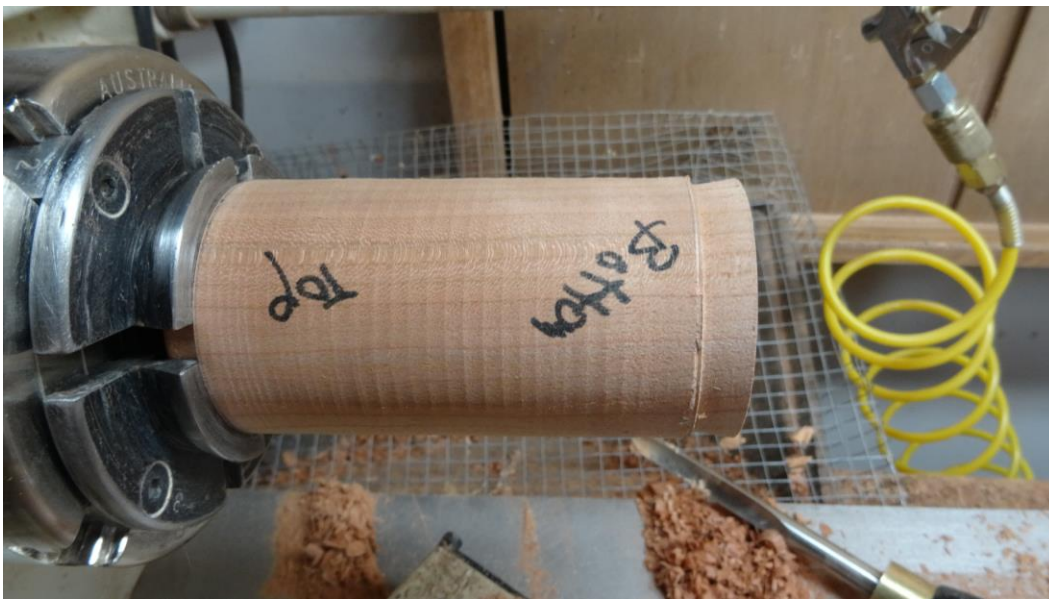


From the **top**, drill a $1 \frac{1}{16}$ " hole at least half-way through the body.



Slightly concave the surface and sand.
Add friction polish.

The inside of the body can also be sanded.



Reverse the body and place the top end on the chuck.



Remove the tenon from the bottom.



Drill a $1/5/8$ inch hole $1/2$ inch deep ---- **500 RPMs**



Drill a 1 $\frac{1}{16}$ inch hole all the way through.



Slightly concave the surface and sand.
Add friction polish.



Remove the body and place the cap in the chuck.



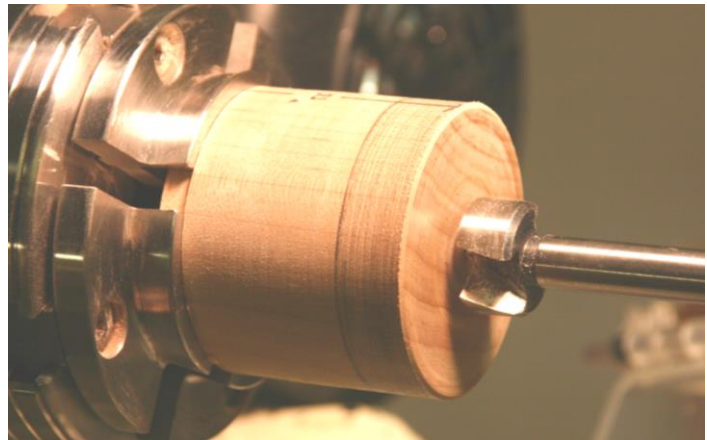
Slightly concave the surface.
Flatten the end of the spigot.
Sand.
Add friction polish.

The disk drive should fit onto the end of the spigot



Alternate method for attaching the disk drive.

Drill a $7/8$ " hole $1/8$ " deep.



✓ Test fit the disk drive. It will **not** fit. Use skew to slightly enlarge.



Remove the cap and place the body on the chuck, securing it at the bottom.

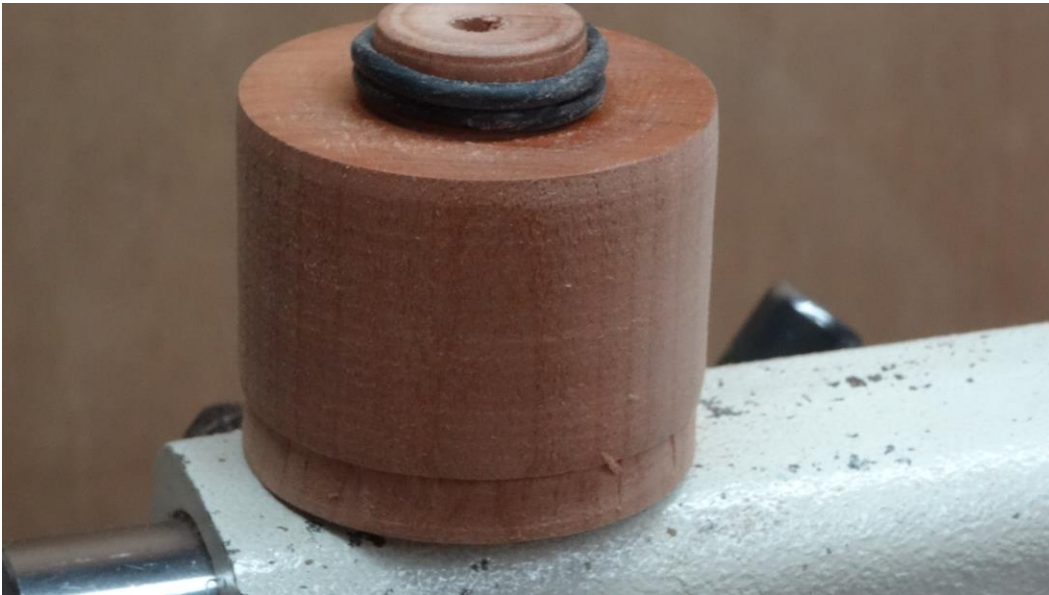


Add the cap.
It will probably not run true.

True it up with a roughing gouge.



Remembering that a $\frac{1}{2}$ " deep hole was drilled at the bottom, lay the drive shaft approximately $\frac{1}{2}$ " from the bottom to determine how far the shaft will protrude from the top.



Remove the cap and place two rubber “O” rings on the spigot.



Place the body and cap back together and secure them with the head and tail stock.



Turn your design and use the drive shaft occasionally to check to make sure you have at least 1/4" of screw exposed.





Add Mahoney's Oil.

Adjustments:

- 👉 If the combined body and cap are producing too much of a wobble, you may have to turn each separately.



- 👉 If the thread does not protrude far enough, either change your design or drill the bottom hole ($1/8$) a little deeper.
 - 👉 If the thread protrudes too far...
 - Measure how much you need to cut off the drive shaft.
 - Use a hacksaw and remove said amount.
 - Place the shaft in a vice and hammer the end flat.
-

Assembly

These be the parts.



