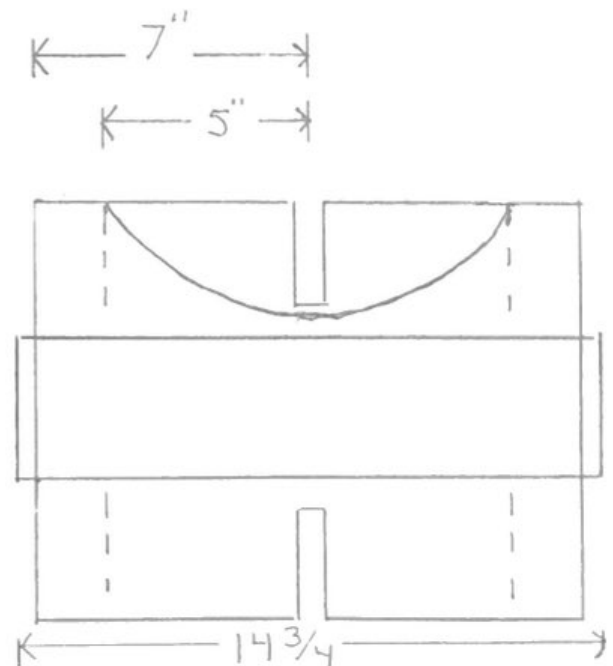
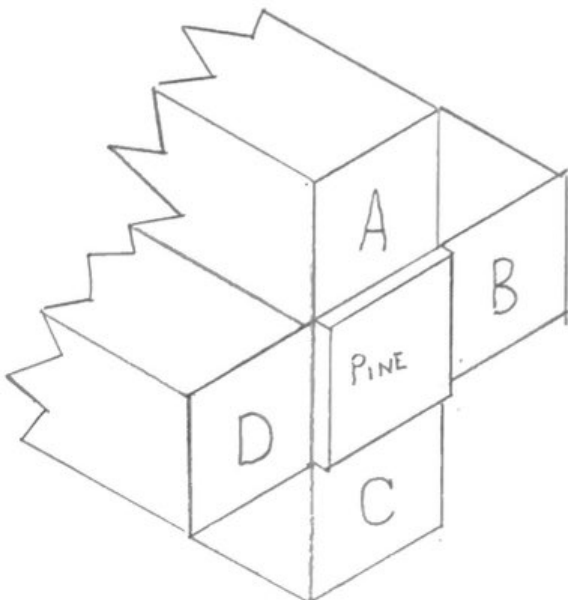


1. Decide on a small curve or a large curve. The difference is the size of the wood to start with. These directions are for the small curve.
2. Small curve use 1.5" x 1.5" x 14" Large curve use 1.5" x 2" x 14".
3. Decide on the type of wood. These directions will be for Walnut and Maple.
4. Cut list. This **does not** include the base.
 - a. 1 – 1.5" x 1.5" x 14 3/4" Pine that will not be part of the finished lamp.
 - b. 4 – 1.5" x 1.5" x 14" Walnut – These are the sides. A, B, C & D
 - c. 1 – 1.5" x 1.5" x 4" Walnut- This will make the middle.
 - d. 2 – 1.5 x 1.5 x 5.25 Walnut – Top and bottom for the middle section
 - e. 1/4" thick Walnut and Maple for the middle round part.
 - i. After the glue up this will be 4" long and 3" wide.
 - f. 1 – 1.5 x 1.5 x 18" Maple – the four corners on both ends.
5. Take the 1.5" square Pine and glue the 4 Walnut to it. Only glue 2" at the ends with **brown paper inbetween**. Leave 1/4" of the pine sticking out each end to create a tendon. **Mark one end of the walnut with A, B, C and D**
6. Attach to lathe using a chuck on the head stock. Use the tail stock for support.
7. Use the template and mark the curve. Bottom of curve should be 3/8" above the bottom.
8. Mark the center at 7". From this point measure a distance of 5" both ways.
9. Using the parting tool at the center go to a depth of just above the curve.
10. Remove wood almost down to the curve.
11. Check often to make sure the template is fitting in the curve.
12. When the curve is completed, sand it smooth and put final finish on it. This curve will be the inside. When satisfied with the finish set it aside. While the finish is drying start on the center section.



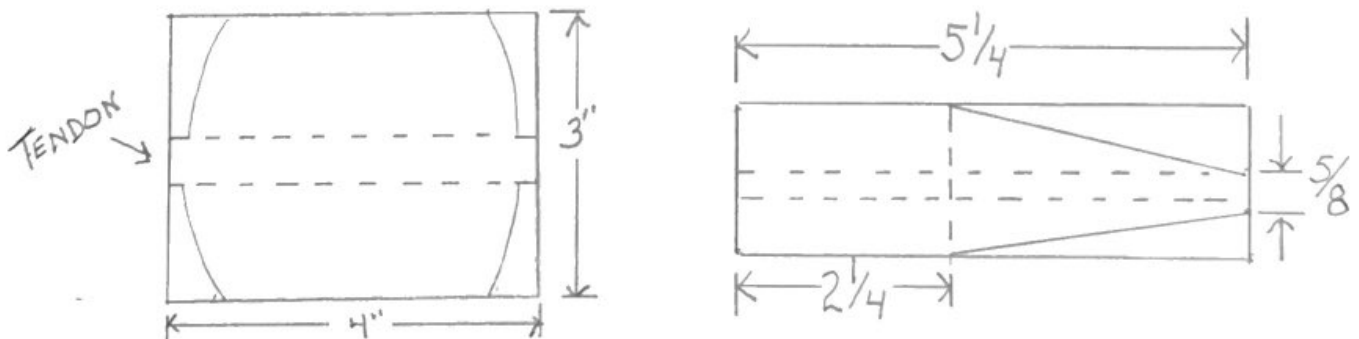
THREE SECTION CENTER

CENTER

13. Use the 4" Walnut. This will be the center section.
 - a. Build this up using the $\frac{1}{4}$ " Walnut and the $\frac{1}{4}$ " Maple. Keep adding layers till this is 3" square. If a little bigger that is ok.
14. Once it is 4" long and 3" square put in the chuck and use the tail stock.
15. Put a 1" diameter tendon on the tail stock end that is only $\frac{1}{8}$ " out. Turn the center section to the desired shape.
16. Drill $\frac{5}{8}$ " hole into tendon $\frac{1}{4}$ " deep.
17. Change chuck jaws to pin jaws. Reverse the center section and add a tendon to this end.
18. Drill $\frac{5}{8}$ " hole into tendon $\frac{1}{4}$ " deep.
19. Drill $\frac{1}{2}$ " hole all the way thru.
20. Sand center section to 220 grit.

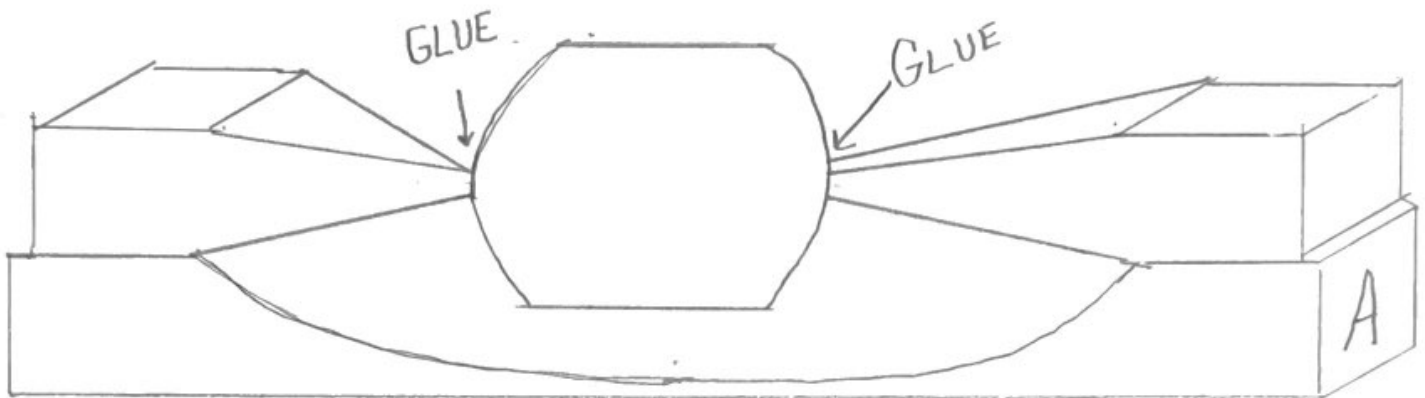
TOP AND BOTTOM SECTIONS

21. Top and bottom sections are the same size. 2 – 1.5 x 1.5 x 5.25
22. Mark 2.25" in from the end that is going into the chuck. Make a mark on the other end that is $\frac{5}{8}$ diameter.
23. Turn the end down to the $\frac{5}{8}$ " mark and make it $\frac{1}{4}$ " wide. Better to make this to big than make it to small. This end will be glued into center section.
24. Taper this section from the 2.25" line to the end.
25. When you have it close to what you want check for fit on the middle section. It should fit very snug.
26. After it fits drill $\frac{1}{2}$ " hole in from the tapered end 3".
27. Sand to 220 grit.

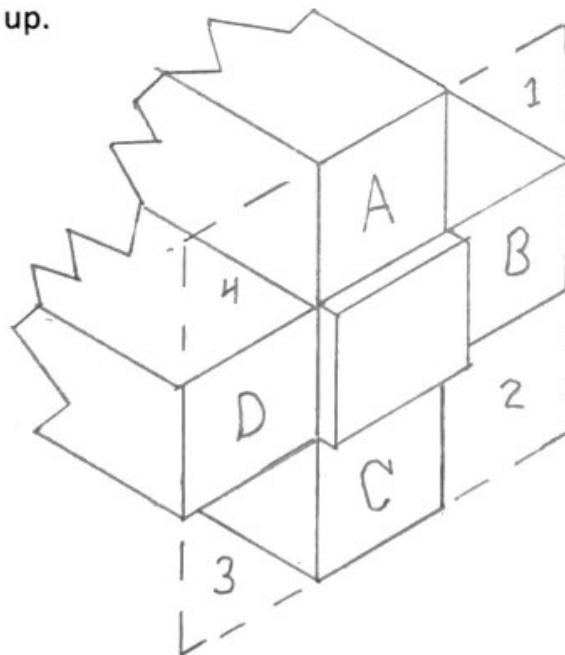


28. Line up the center section on part A. Clamp and glue the center section together.

29. Now put the entire center section back on the lathe and do the final shaping and sanding.
30. Put your final finish on the center section.
31. Using a chisel to separate parts A, B, C & D. No need to sand the paper off.
32. Line up the center section on part A. Clamp and glue the center section together.

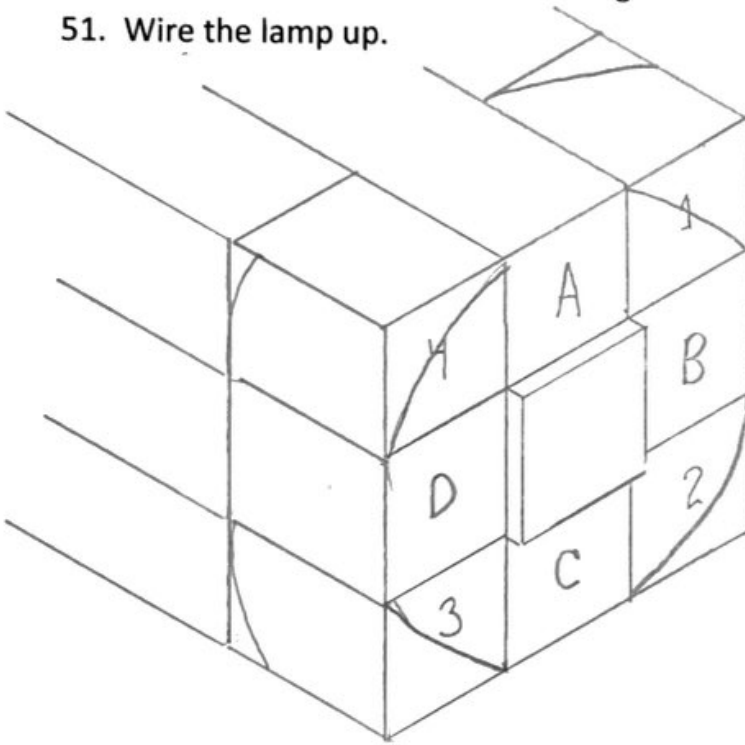


33. Glue parts A, B, C & D to the middle section. Make sure **all the marked ends** are on the same end.
34. Add blocks 1.2" x 1.5" x 2" to the 4 corners on each end. Make sure you have a 1/4" tendon to chuck up.



35. Mount on lathe.
36. Turn both ends round.
37. Use parting tool next to one end and remove wood down to where the sides come into the middle shaft.
38. Start in the middle and form the side down to the end.

39. When satisfied with shape do the other end to match. Start with the parting tool.
40. Shape the top and bottom.
41. Make segmented rings for the base if you want added height.
42. Glue rings to base.
43. Shape the base.
44. Sand entire lamp.
45. Use $\frac{1}{2}$ " spade bit and drill out the remaining hole in the base tendon.
46. Finish sanding the entire lamp.
47. Use cole jaws to remount the lamp with the base on the head stock.
48. Drill out the top with $\frac{1}{2}$ " spade bit.
49. Take tendon down to 1" diameter and do final shaping and sanding.
50. Drill $\frac{1}{4}$ " hole for the wire in the segmented ring on the back side.
51. Wire the lamp up.



36

37

Parting Tool

