

# first year: wood fabrication project

## A volume of cubic space: Step Four

Reference steps one, two and three for more information

Issued Wednesday, November 7, 2007

Working Process : After the additions of the circular/ spherical cutouts, further articulation by notching and milling can be introduced to help stabilize the final assembly and reinforce the definition of your spatial volumes.

Guide lines for final assembly:

- Make sure the finger joints of your poplar box fit snugly and slide together with no gaps. Pare the bottoms of shallow cutouts to prevent pins in the deeper ones from closing tight. Wood shims should not be used as filler at the bottoms of the finger joints. Fingerjoints in the poplar should not be glued.
- The finger joints of the poplar box will in most cases "stand proud", that is, extend a little beyond the faces. Sand these flush with the sides.
- The 3/4" pine extensions should fit tightly into their dados. They may, however, be glued in place. Use yellow glue sparingly and clamps to ensure complete seating. Glued parts should be left under clamp pressure for a minimum of 3/4 hr. Wipe off any glue smear with a damp rag.
- Make sure the intersections of planes are properly located to maintain the horizontal, vertical, and perpendicular quality of each. Re-cut as necessary to keep parts square.
- Don't expect glue to correct loose and short notches and half laps. There needs to be sufficient interlock to form a mechanically rigid intersection. Re-cut pieces to provide sufficient interlock. Plywood will be available for replacing pieces cut too short. Additional plywood is for replacement, and should not be added in excess of the original allotment.
- Do not glue every intersection. Glue intersections of thin planes and intersections which don't support themselves. Planes may be glued into subassemblies, but should still allow for disassembly. Sand your planes before any glue up and final assembly. Sand to remove chips, burrs, pencil marks and dirt. Do not sand enough to loosen joints.

Deadlines Friday, November 9, 2007 @ 1.30 p.m.

- You are to have everything substantially completed including circular/ spherical cutouts as well as any further articulation by notching and milling.

Monday, November 19, 2007 @ 10.00 p.m.

- Project due (no exceptions)