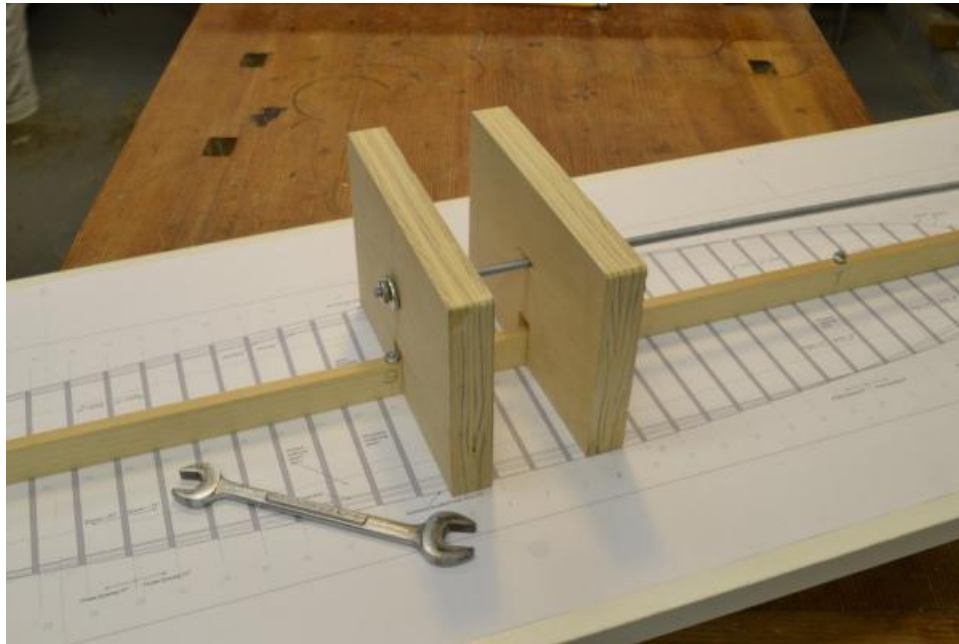


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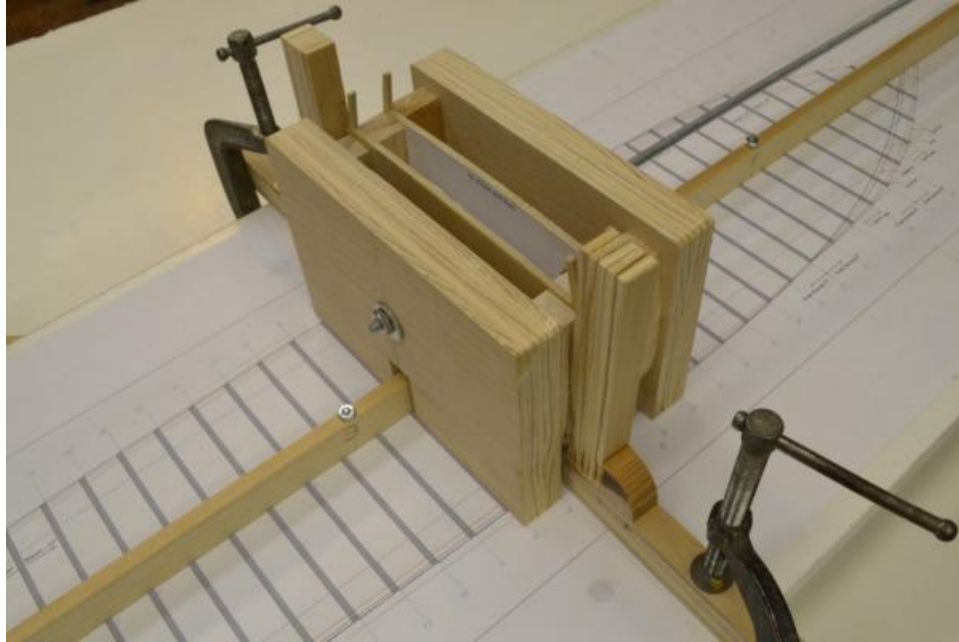
Young America 1853 – POB 1:96

Part 3 – Erecting Bulkhead Assemblies

In the full-framed version of the model, frames were plumbed then clamped in place using small wood spacer blocks or later, using ribbands at the planksheer. For this model the bulkheads are glued to their neighbors using wood spacers. The method is basically the same but requires a different clamping method. The first picture shows the device used to clamp the bulkheads for gluing.



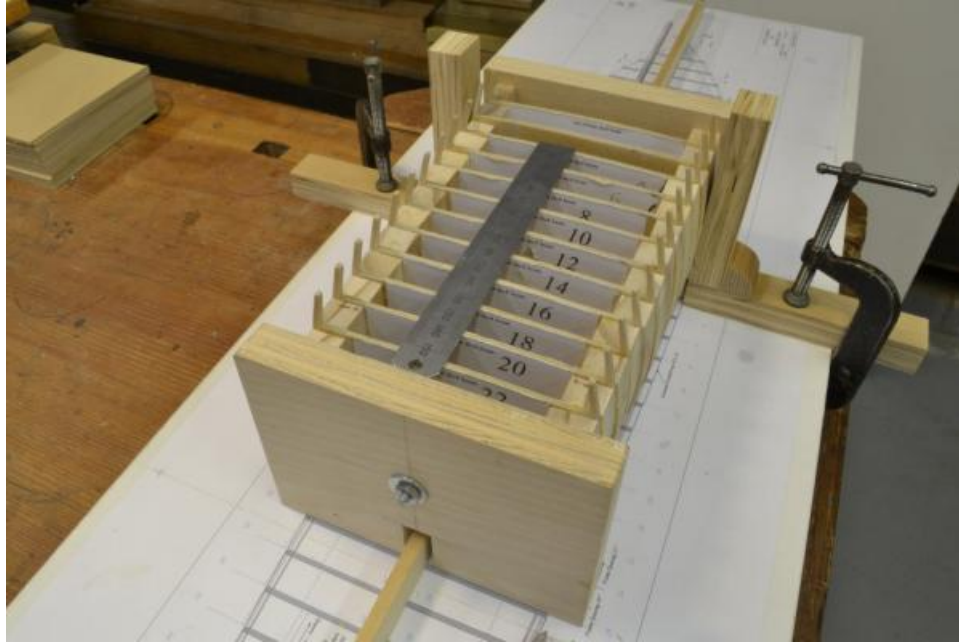
The two plywood rectangles fit loosely over the central spine. They are drilled at the same level as the holes shown earlier in each bulkhead. A long, loose-fitting threaded rod is used to tighten the glue joints as each new bulkhead is added and aligned. The next picture shows bulkhead 2 being glued.



The squares are used to align the frame to the maximum breadth line on the shipway plan. The nut on the threaded rod is then tightened to secure the glued joint. The next picture shows more bulkheads added - one at a time.

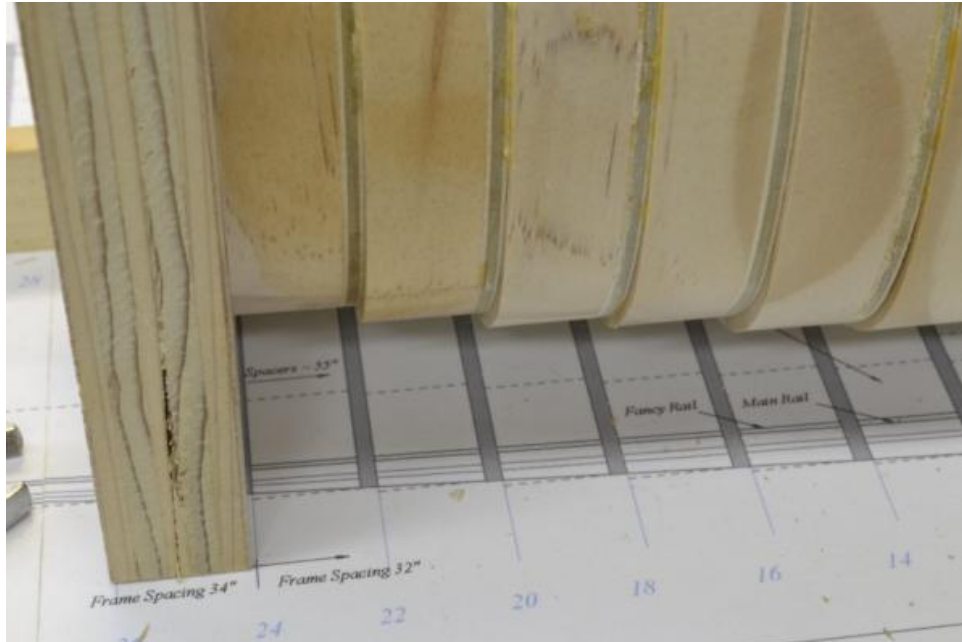


And so on.



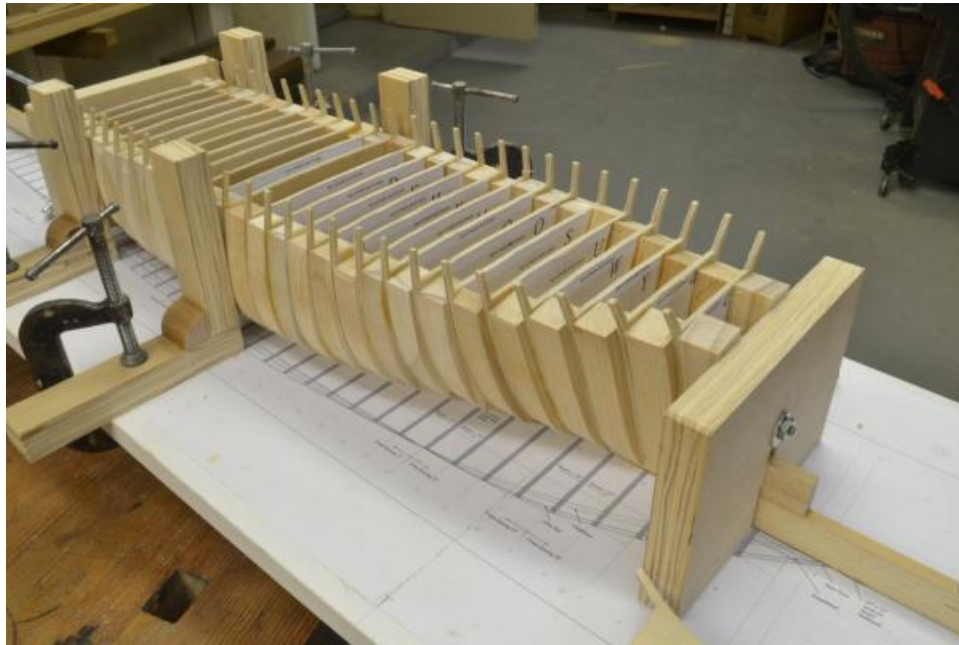
In the above picture the fairness of the deck “beams” is being checked with the metal rule. If the notches over the spine are cut carefully, the line should be precisely fair.

The next picture is a close up of some bulkheads showing the excess spacer material that will need to be removed later.



Note that the station lines on the shipway plan align with the plywood bulkhead at its maximum breadth. When the hull is faired by removing the excess and smoothing the line to over the plywood sections, the hull shape will be precise.

The last picture shows the framing of the forebody almost complete.



Note in this picture that the midship frame and another forward of that are held in alignment throughout this process by squares clamped to the shipway. This prevents the hull shape from twisting as frames are added.

While building up to this point, a number of special attachments were made on some of the bulkheads for mast steps, reinforcements and hold down bolts. I will show some of these in the next part.