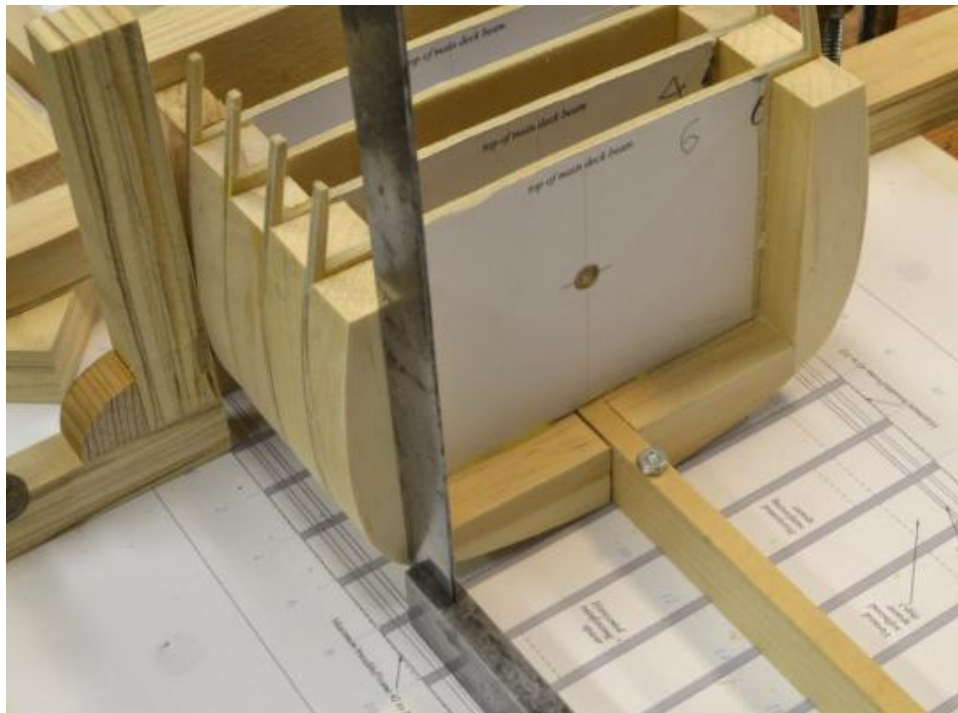


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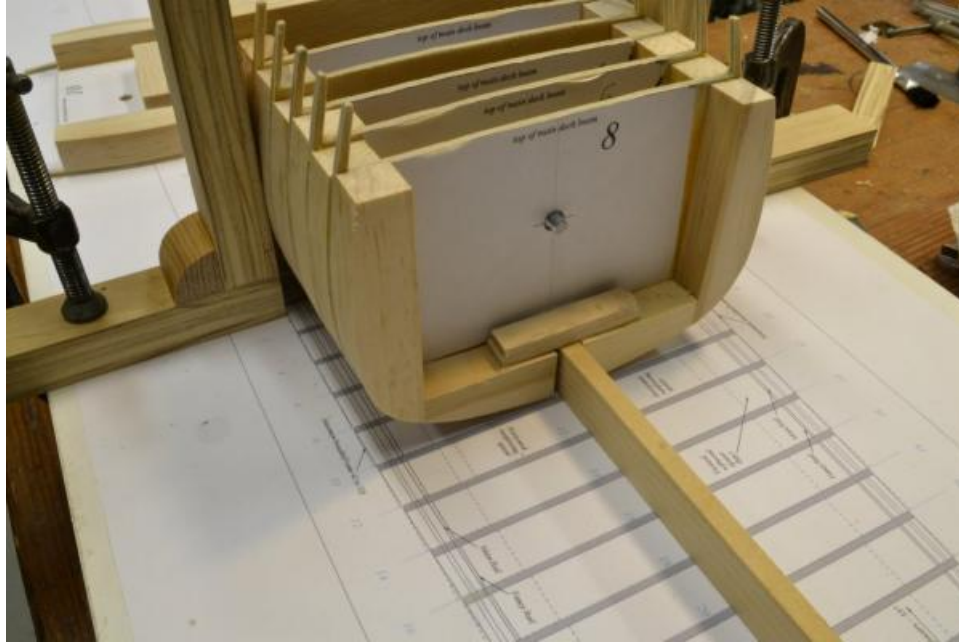
Young America 1853 – POB 1:96

Part 4 – Hold Down Bolts

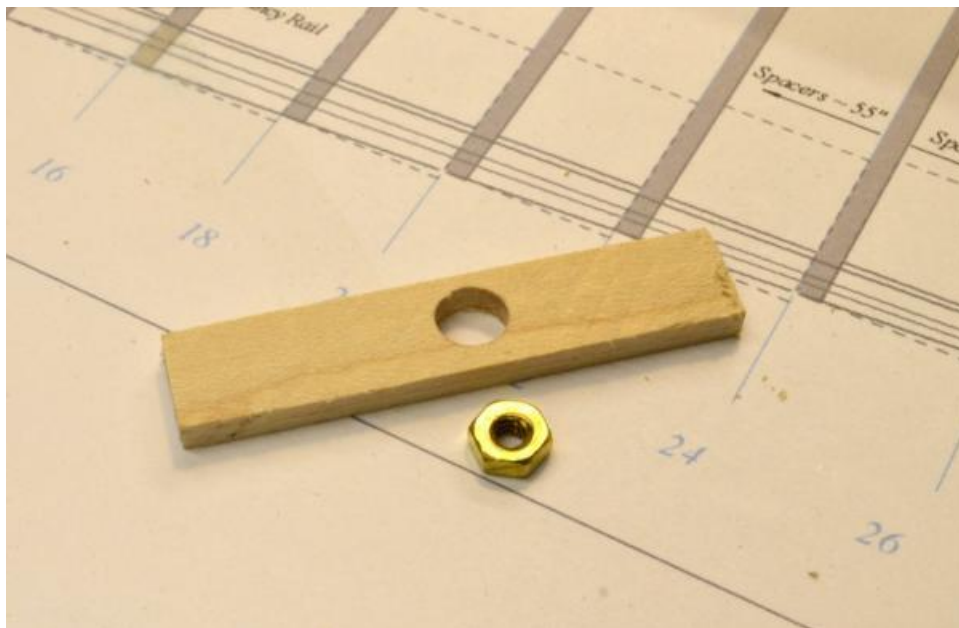
Some additional structural work needs to be done as the bulkhead erection proceeds. Nuts for hold down bolts need to be permanently embedded in the structure at three locations. These were set out on the drawings on odd-numbered frame lines so they would fall midway between plywood bulkheads which are set only at the stations – the even numbered frame lines. The spine and shipway were drilled at these locations earlier and threaded rods installed as shown below.



The bolt in this picture is on frame line 9. The picture was taken before bulkhead 8 was installed (and before the numbers on the patterns were moved toward the center). The next picture shows this nut encased.



The nut is encased in the lower of the two hardwood strips glued to the top of the horizontal spacers. The lower strip is shown in the next picture, before the hole was filed to fit the nut.



The next picture shows the forward bolt at frame T being encased.



In this case two triangular blocks were glued to the spine and the strip encasing the nut is glued to it. In the next picture the assembly is capped with another fitted block.



Although each of the three installations of these is slightly different, in every case there is a cap to hold in the nut and to act as a stop when the stud bolt is threaded in. All the parts are glued to the plywood as well as the side spacers, the assemblies are very strong. Next the mast steps.