

HMS Blandford 1720 Cross Section Project

Building Instructions

Build Board and Keel Construction:

It is a lot easier to build a model if you use a building board. I am providing a saw-tooth type jig for this build, it is well suited for cross-sections.

The building board and jig do not have to be a work of art, unless you plan on making several models of this section it will be discarded at the end of the build.

The top can be made from plywood, Masonite or similar material attach the pattern to the top with spray adhesive, rubber cement or glue of your chose. Cut the center hatched section with a scroll or jig saw and attach it to the four support posts with wood glue and #4 finish nails or paneling nails.

The base needs to be a little thicker $\frac{3}{4}$ " is preferred $\frac{1}{2}$ " can be used but make sure the posts are long enough to maintain the overall height of the jig. The top of the jig is set at the waterline.

If you are building the model "Naval Board Model" style there will not be any exterior planking below the waterline. You can do one side that way and fully plank the other. That is the way I will build my model.

After the keel assembly is finished it will be installed as shown on sheet 2,

The keel assembly consists of three pieces false keel, keel and rising wood I like to use a dark colored wood for the false keel, such as walnut, bloodwood or rosewood to differentiate it from the keel. The keel rising wood and all framing should all be of the same species of wood (personal opinion). I like to use European beech wood, it looks like oak and is easy to work. Cheery, maple, popular and basswood are also good for framing. Make sure when you cut the notches for the frames you stay on the waste side of the lines, you need to use a hand file with the keel in a vice to fit the notch to the frames I use a small piece of scrap wood the same thickness of the frames as a gauge to finish sizing the notches, it is easier than handling the frames the tips of the frames are easy to break off. By drilling two $\frac{3}{32}$ " holes in the keel as shown on the drawing you can glue two pieces of $\frac{3}{32}$ " tubing in the keel that will hold it in place on the building

board. The brass pins make it easy to remove and replace the keel from the board and can be used for mounting the model to the display stand.

I have included a cross-section and longitudinal section in this set of drawings to show what the model will look like, everything shown in the sections will be detailed with patterns.

This should get you off to a start, the next package of drawings will contain all the frames.

Have fun!

Mike