

# FAIR-A-FRAME® Building Jig

By Model Shipways  
a division of Model Expo

## Assembly Instructions

moderate the front of the false keel. Once the keel is properly positioned, tighten it into place. Do the same with the tailstock. When all is tightened, your false keel will be square and ready for its bulkheads. Use the sliding alignment head (also fully adjustable) to square each bulkhead as it is glued into place. When the bulkheads are finished, you can set the head and tailstocks along with the alignment head aside, and use the baseboard as a keel clamp for further work on your ship model.

20) If you wish, you can use the small holes in the sides of the headstock and to secure them to the baseboard. You can do this by simply running a small wood screw through the holes into the baseboard edge, being careful not to overtighten the screws.

21) The notches on the sides of the headstock and tailstock jaws can be used to exert additional pressure on the false keel by looping rubber bands from one side to the other. This might prove helpful if the false keel is warped.

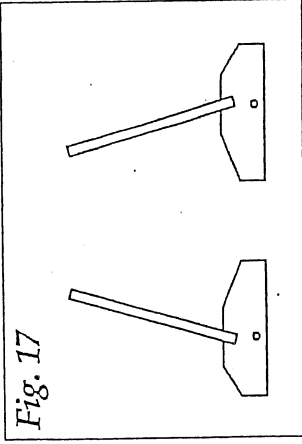


Fig. 17

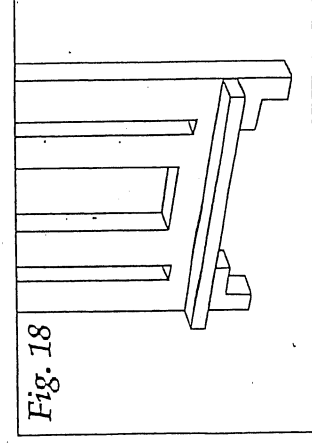


Fig. 18

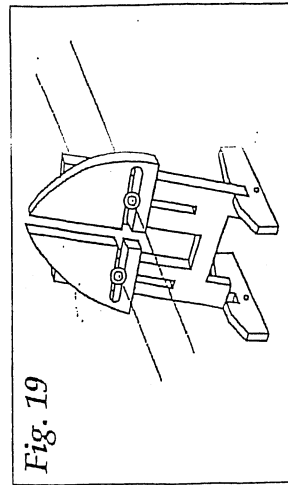


Fig. 19

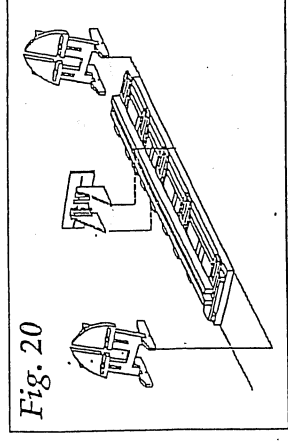


Fig. 20

### LIST OF PARTS

Part No.	Measurement & Material	Number Supplied
No. 1	1/2 X 4 X 24" Basswood Baseboard	1
No. 2	3/16 x 3/16 x 24" Basswood	3
No. 3	3/16 x 1 x 1-1/2" Laser cut Support	4
No. 4	3/16 x 1 x 3" Laser cut Slotted Slide	7
No. 5	1/4 x 1/2 x 24" Basswood	2
No. 6	3/16 x 1 x 1-1/2" Laser cut Slotted Slide	5
No. 7	3/16 x 3-1/2 x 8" Laser cut Alignment Head	2
No. 8	3/16" Laser cut Alignment Head Support	2
No. 9	3/16" Shaped Laser cut Head and Tailstock heads	4
No. 10	3/16" Laser cut Head and Tailstock feet	4
No. 11	1" No. 8 Bolts	11
No. 12	3/8" Washers	22
No. 13	Wing Nuts	11
No. 14		

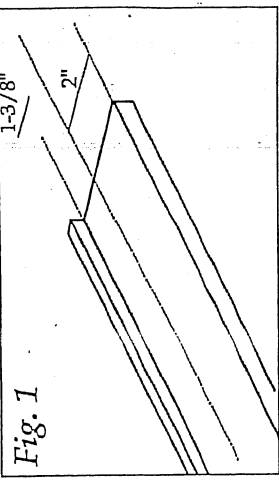


Fig. 1

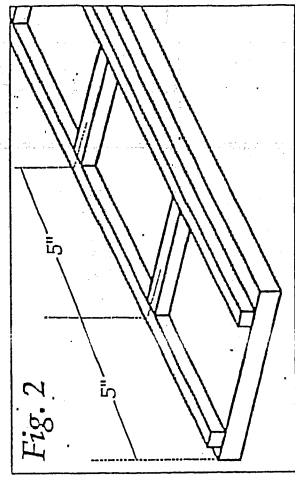


Fig. 2

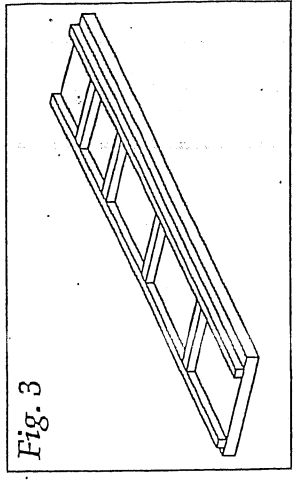


Fig. 3

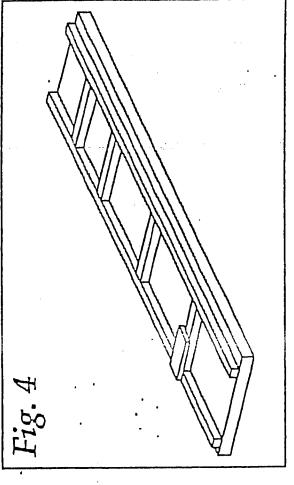


Fig. 4

1. Begin by drawing a center line the length of the baseboard (part 1). This line should be 2" from either edge of the baseboard.
2. Next, draw two lines parallel to the center line 1-3/8" from the center line (figure 1). This will align the 3/16" square outside rails. Glue two 3/16" x 24" rails (part 2) to the baseboard using the lines you've drawn as a guide. The inside edge of each rail will sit on the line. Your rails must be parallel, 2-3/4" apart.
3. From another piece of 3/16" square stock, cut four 2-3/4" long pieces. Take the baseboard, and from one end make a line on the support rail every 5" (figure 2). Repeat the marks on the other rail. At each set of marks, position one of the short 3/16" square pieces you've just cut, and glue into place. These cross-pieces must be square to the side rails and positioned every 5" on center (figure 3).
4. Next, locate the 1/8 x 1 x 1-1/2" walnut supports (part 3). There are four of them in the kit. Refer to figure 4 and glue each of the supports into place on top of the 3/16" cross members. The walnut supports should be flush with the outside edge of the side rail and squarely on top of the cross member. Glue all supports to the left hand rail only.
5. Locate the 1/8 x 1 x 3" walnut slotted slide supports (part 4). There are five of them in the kit. Take the baseboard, and as you did before, begin at one end of a side rail and mark a center reference line every 6" (figure 5). Repeat the process on the other rail. Next, mark a center line on each of the walnut slides. Before gluing these slides in place, take 5 of the 1" long bolts and five washers from the hardware bag. Slide a washer on each bolt and place each bolt through the slot on a walnut slide—one bolt per slide.
6. With the bolt head down, glue the walnut slides to the side rails, making sure that your