

Jupiter wide open on a one buoy turn

## building JUPITER 9'10" 3 point Semi-Cabover Hydro Class 'B' Stock or 'A' 'B' 'C' Alky by Hal Kelly

### BILL OF MATERIAL

BRONZE, MONEL, or EVERBURN FASTENINGS

- 1 gross of 7/8" #8 flathead wood screws
- 1/2 gross of 1 1/2" #7 flathead wood screws
- 1 gross of 1/8" #8 flathead wood screws
- 1 lb. of 5/8" #16 Anchorfast common nails...350 to 1b.
- 1 lb. of 5/8" #16 Anchorfast common nails...1,400 to 1b.

### PLANK DIMENSIONS

- 5 lbs. of Weldwood glue
- 5 lb. of Wood dough or similar surface filler
- 10 gal. of pear varnish (color to suit)
- 5 pint of pear enamel (color to suit)

### WATER SPRUCE, or WHITE CEDAR

- 5 pieces.....10' x 10' x 12'
- 5 pieces.....10' x 10' x 12'

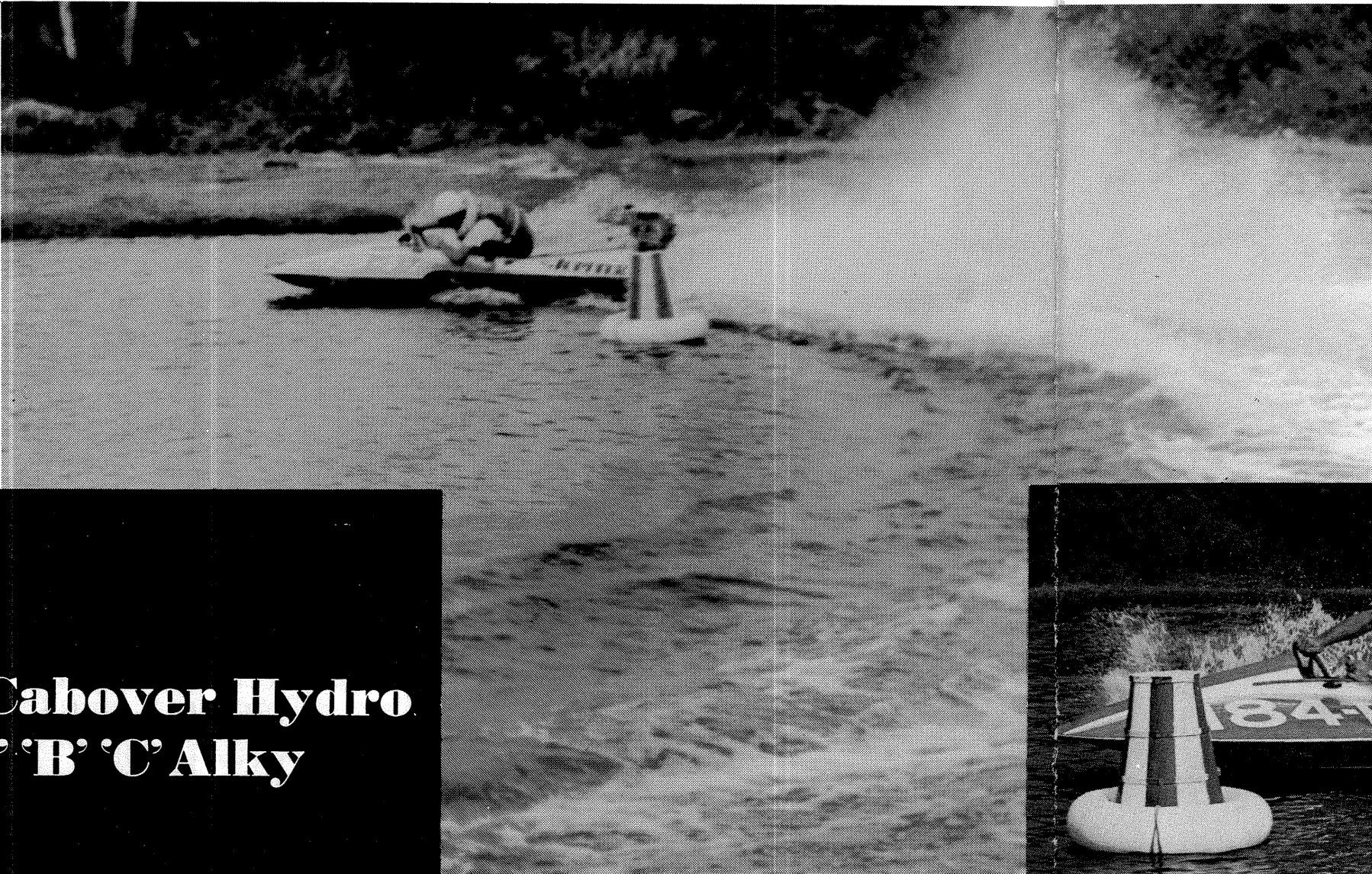
### PLYWOOD MARINE GRADE

- Decking 2 sheets of 1/8" thick 3 ply Mahogany 4' by 8'
- If you can get it in 4' by 10' then one sheet will do.
- Bottom non-strip chines, spinnaker, main girders (floor board, etc.) 3 sheets of 1/2" thick Mahogany plywood 4' by 8'
- Transon one piece of fir plywood 9' x 10' x 14'.

### RIBS

- 1 Steering wheel
- 1 Piece of steering rope 24' long
- 1 Safety throttle
- 1 Swivel throttle cable 5' long
- 2 Boat stop pulleys, with snap swivel
- 2 Steering rope anchor straps
- 2 Forward steering coupling pulleys
- 2 Aluminum stern handles
- 1 Aluminum bow handle
- 1 12' length of 1/2" half round aluminum

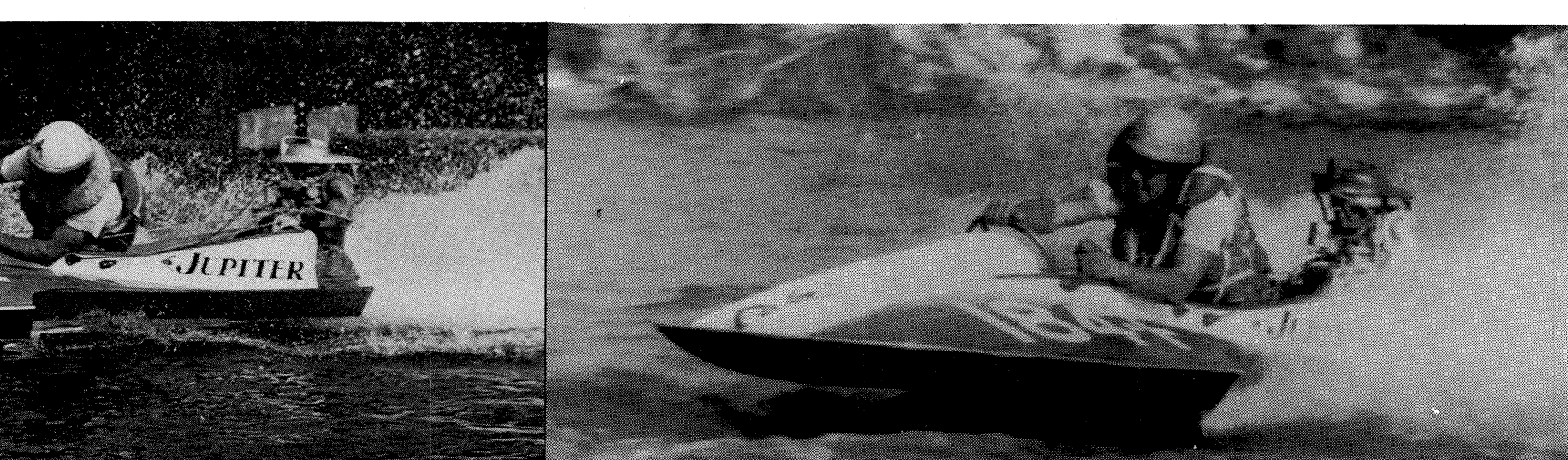
For speed instructions, Automatic throttle, Boat stop hardware, Write WILLIAM WEC, CO., 6450 Olympic Boulevard, WA, zip 98130  
For boat lumber, write MAURICE L. COBBEN CO., 250 Kozia Ave., White Plains, New York 10605



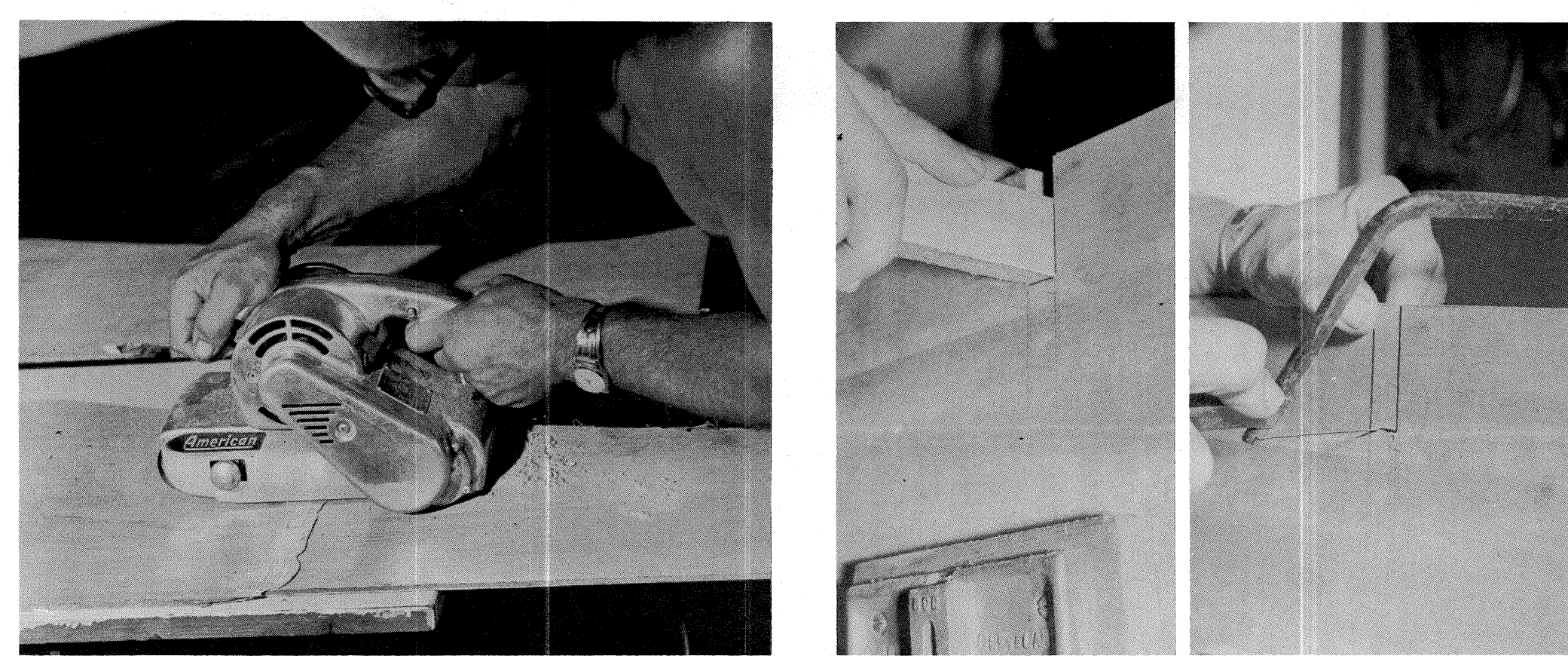
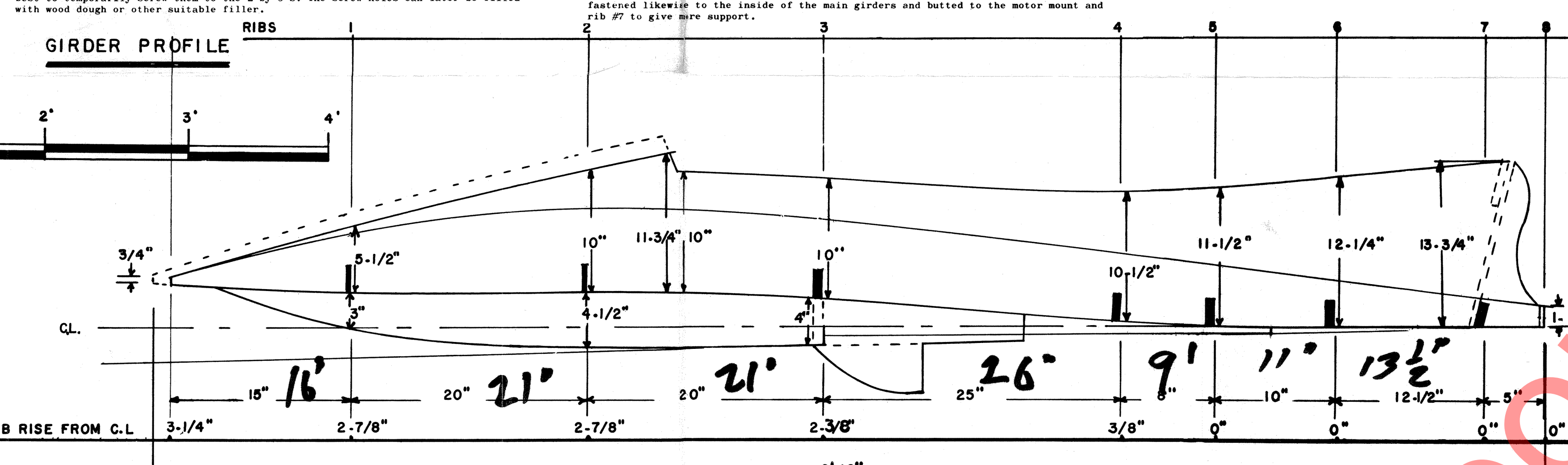
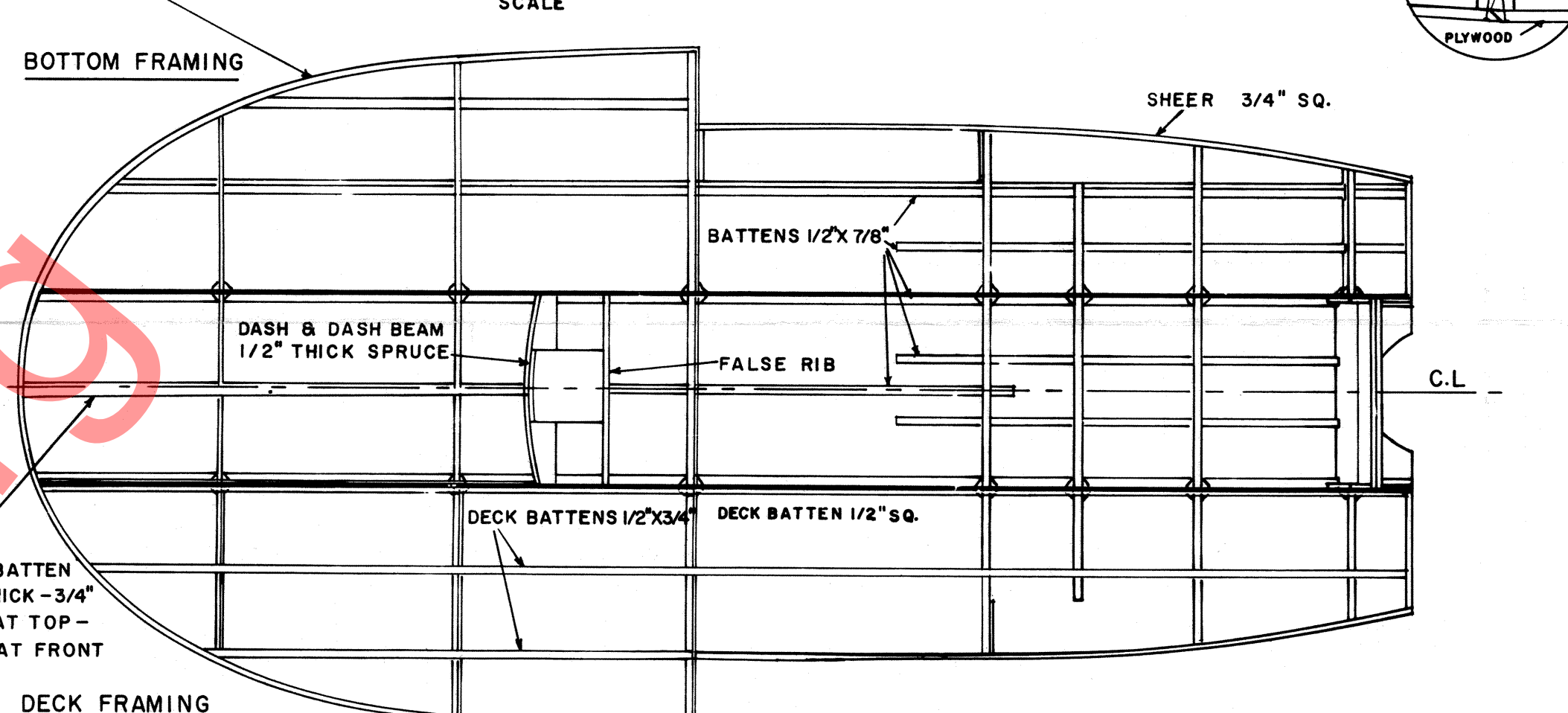
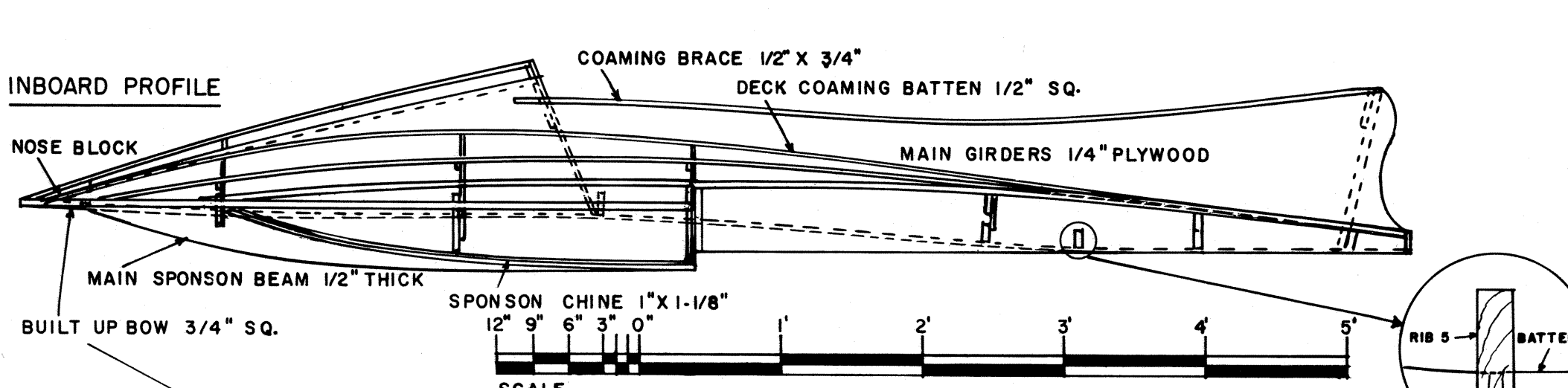
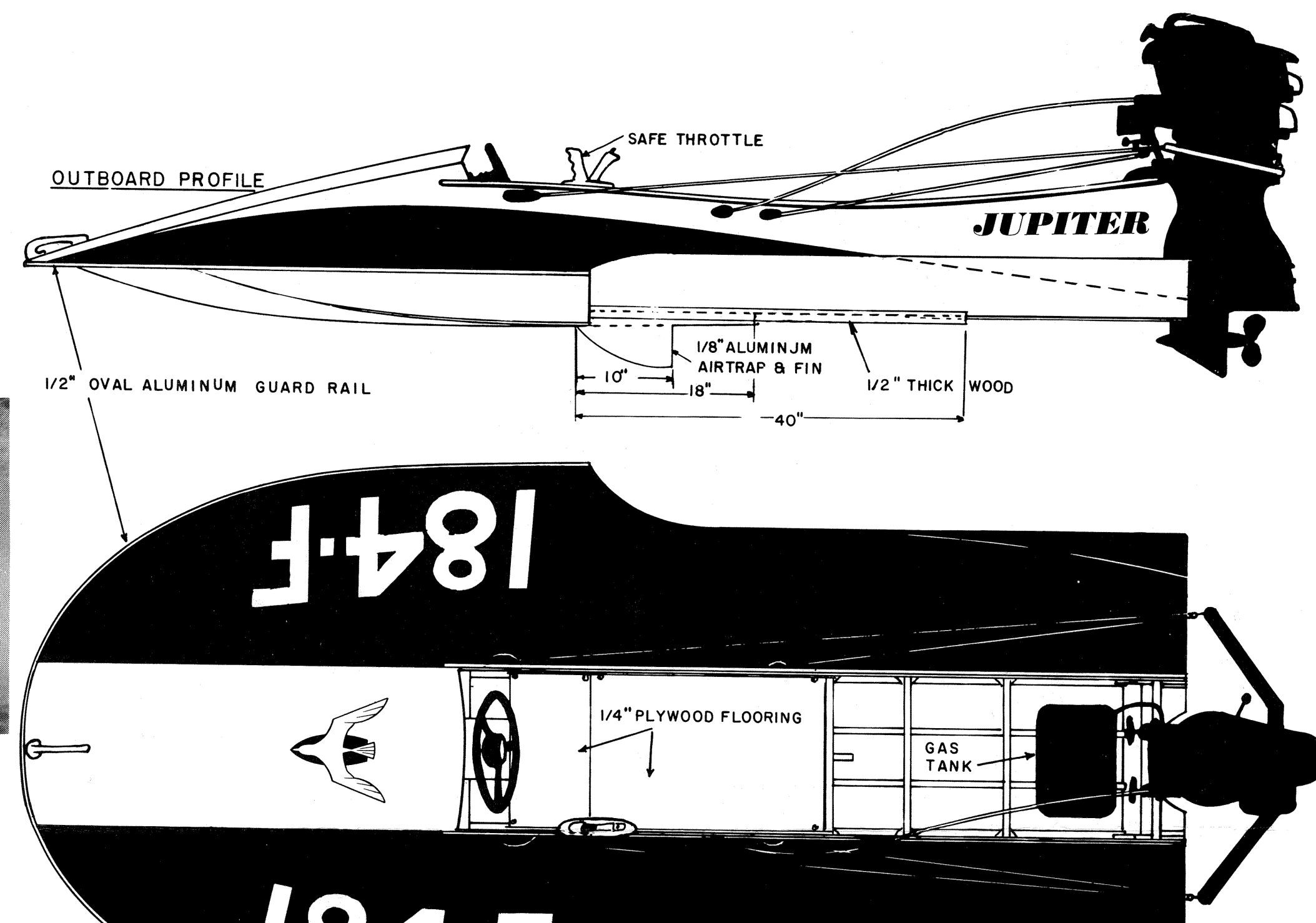
Jupiter in a tight turn



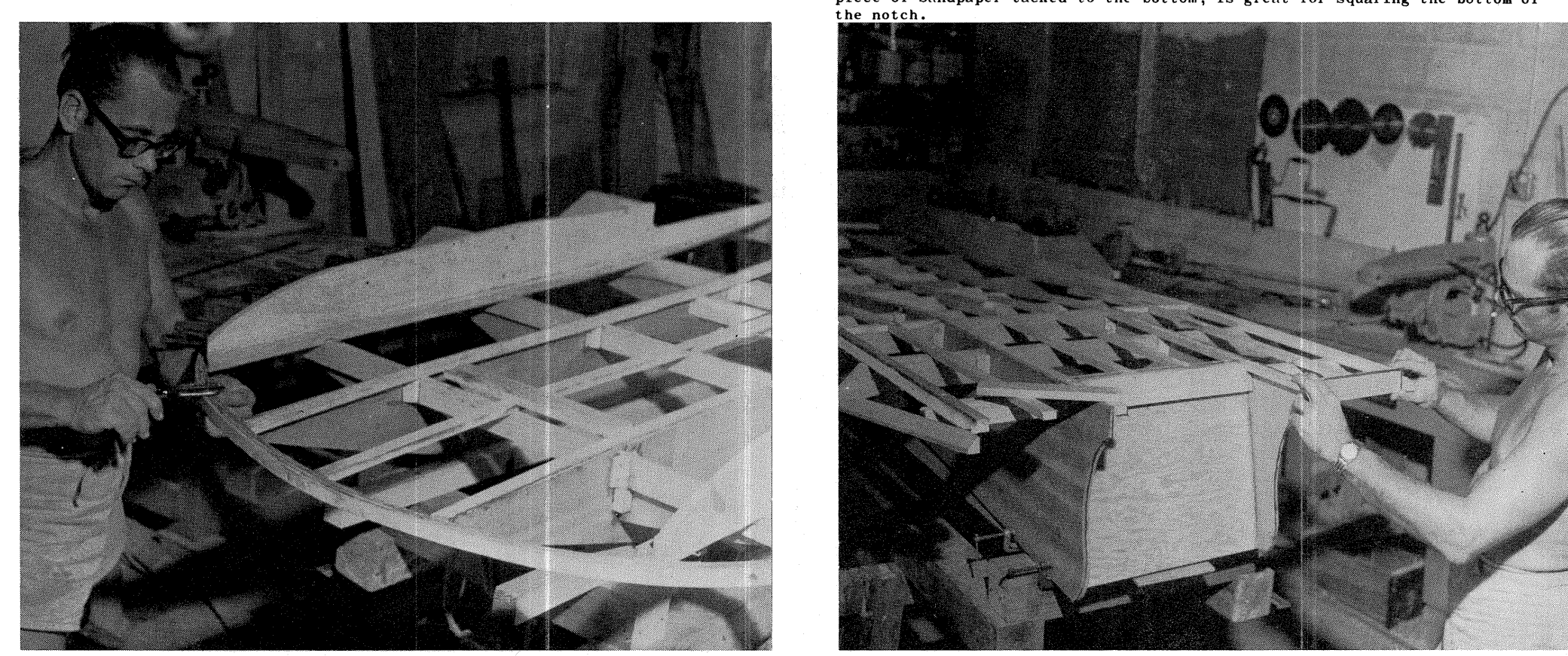
Dub Parker way out in front with a 'home built' Jupiter



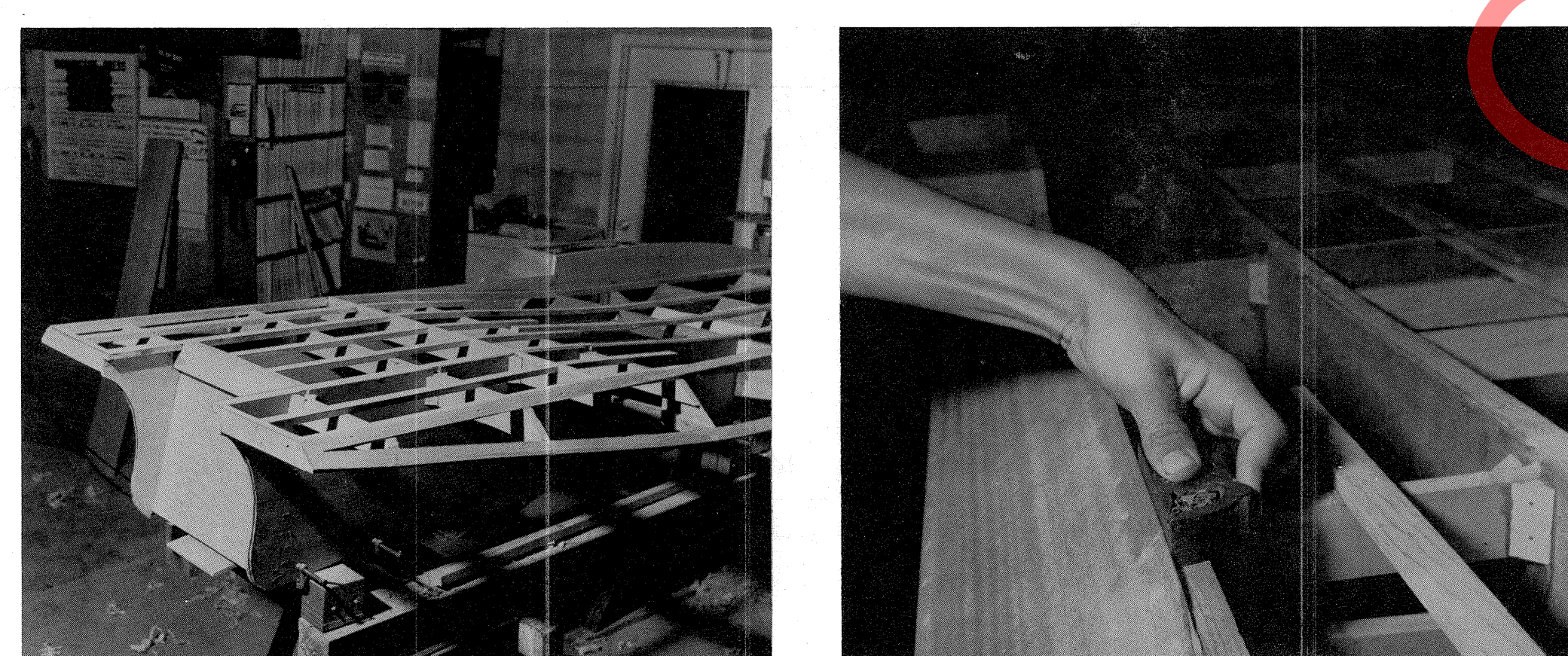
Jupiter can really eat up the rough water



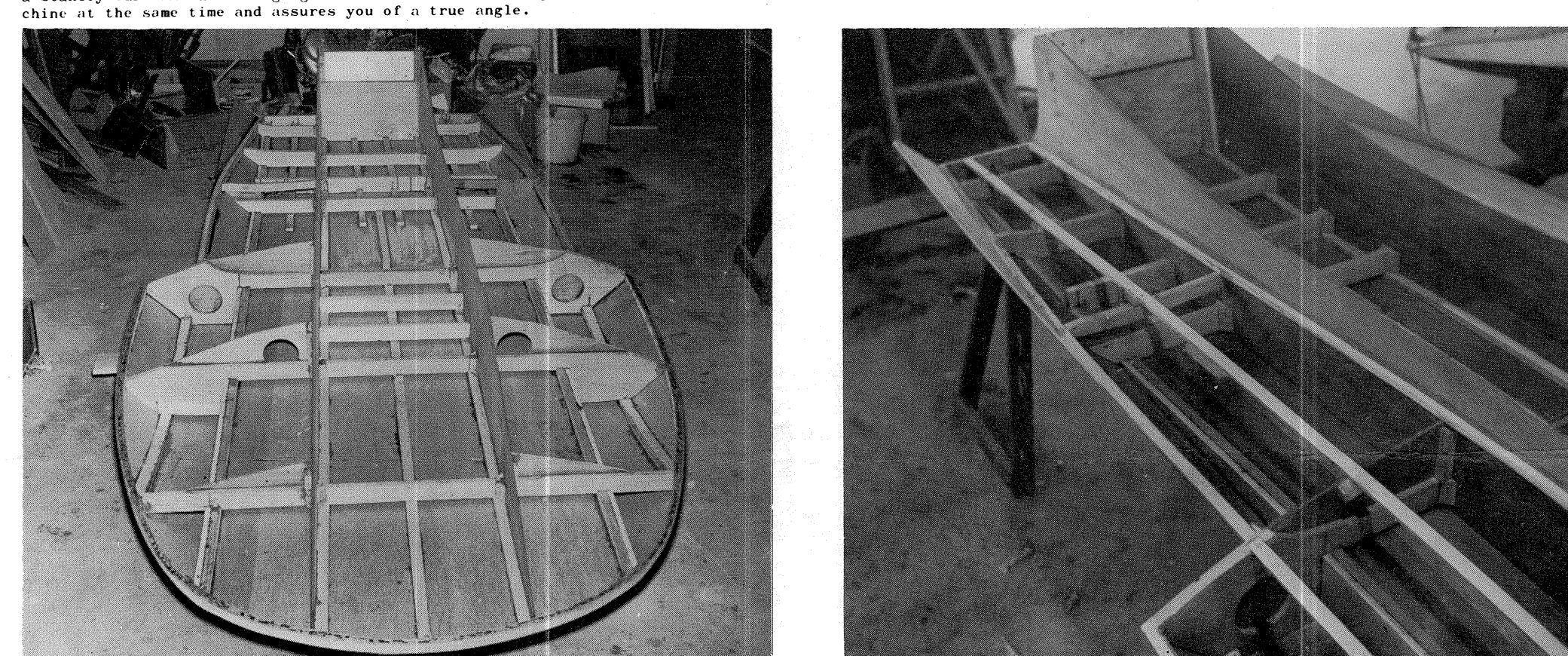
1. After the glue is dry, remove the blocks from each side of the joint and sand smooth. This method will give you a strong good-looking joint.



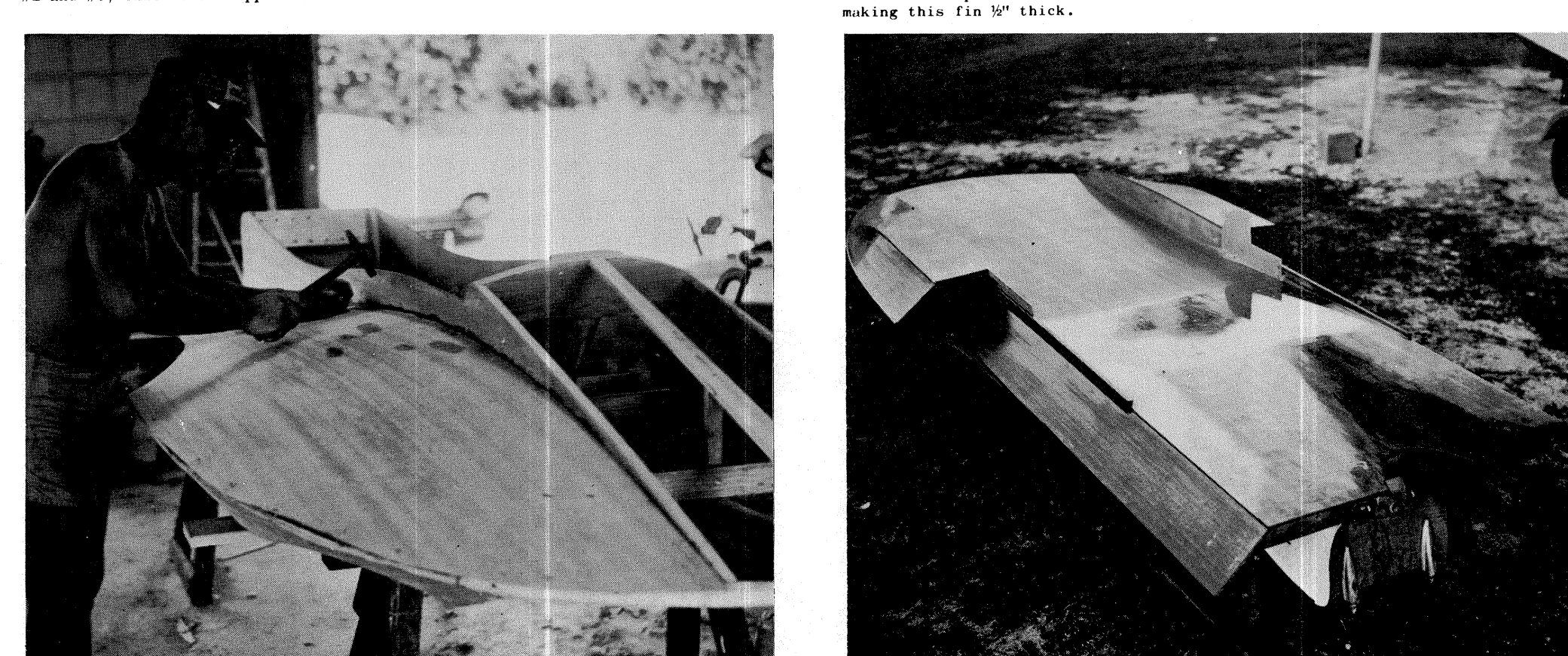
2. The two main girders temporarily fastened together, trim to exact shape and cut out notches for the ribs. The straight cut is done with a fine saw and bottom is trimmed with a jig saw. A scrap of wood the width of the ribs with a piece of sandpaper tucked to the bottom, is great for squaring the bottom of the notch.



3. The triangle glue blocks are best made on a hand saw, by cutting a 1/4\"/>



4. With the girders clamped to a jig, all ribs are slipped into their prospective positions, glued and fastened in place with glue blocks and 1/8\"/>



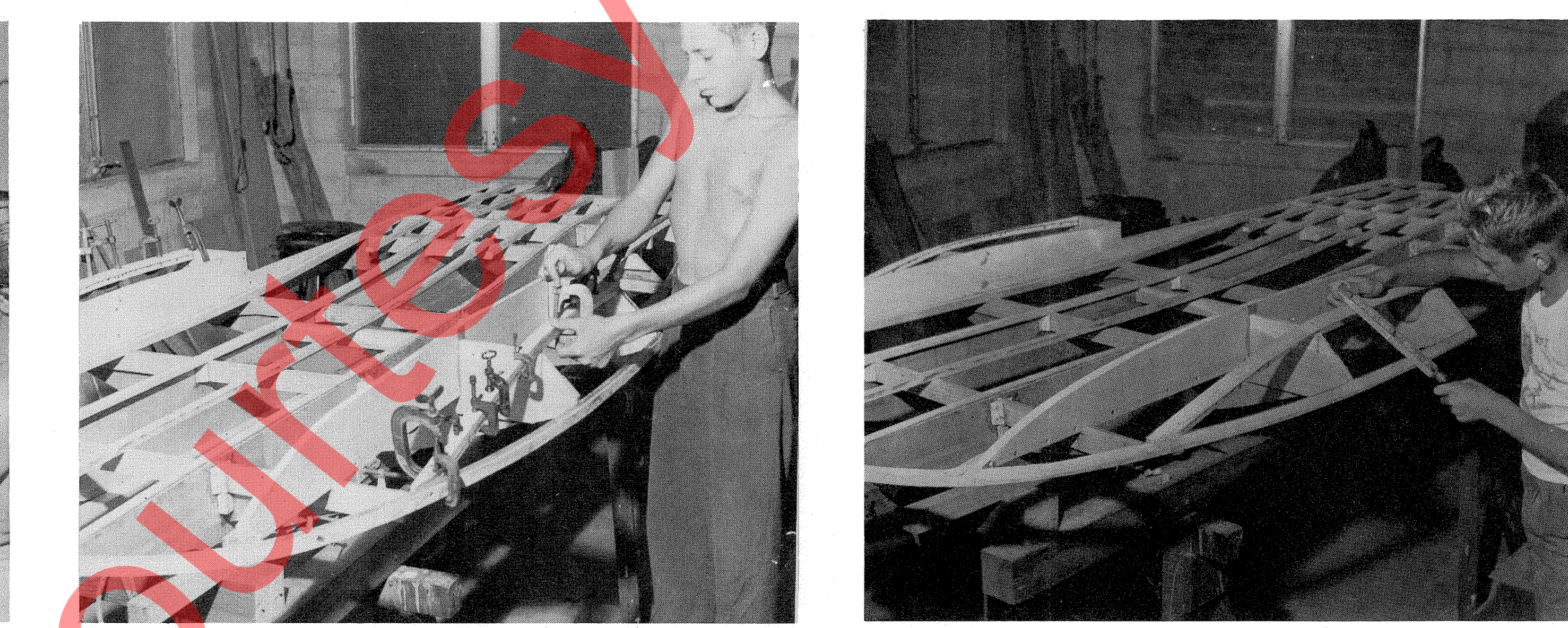
5. Rib #7 is fastened to the motor mount. Make sure that all ribs are 90° to the main girders, check by sighting down the length of the framework, and double check with a level.



6. The main spinnaker beam runs the length of the boat. Mark off the shape of the bottom of the beam and cut to fit. Then carefully mark off with cut the rear spinnaker is rough cut to shape. The part that extends behind the spinnaker is cut more accurately with the proper angle, about 45°.



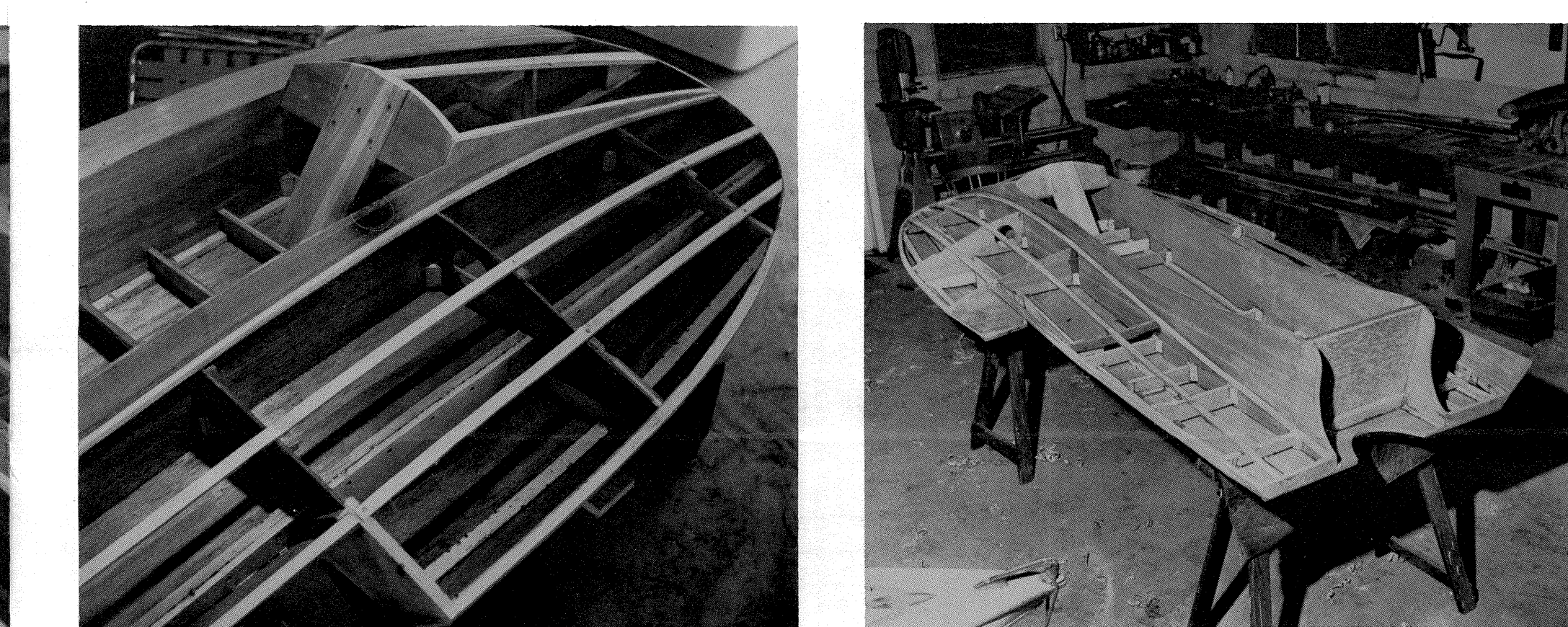
7. The laminated bow piece is made up of 3 pieces of 1/2\"/>



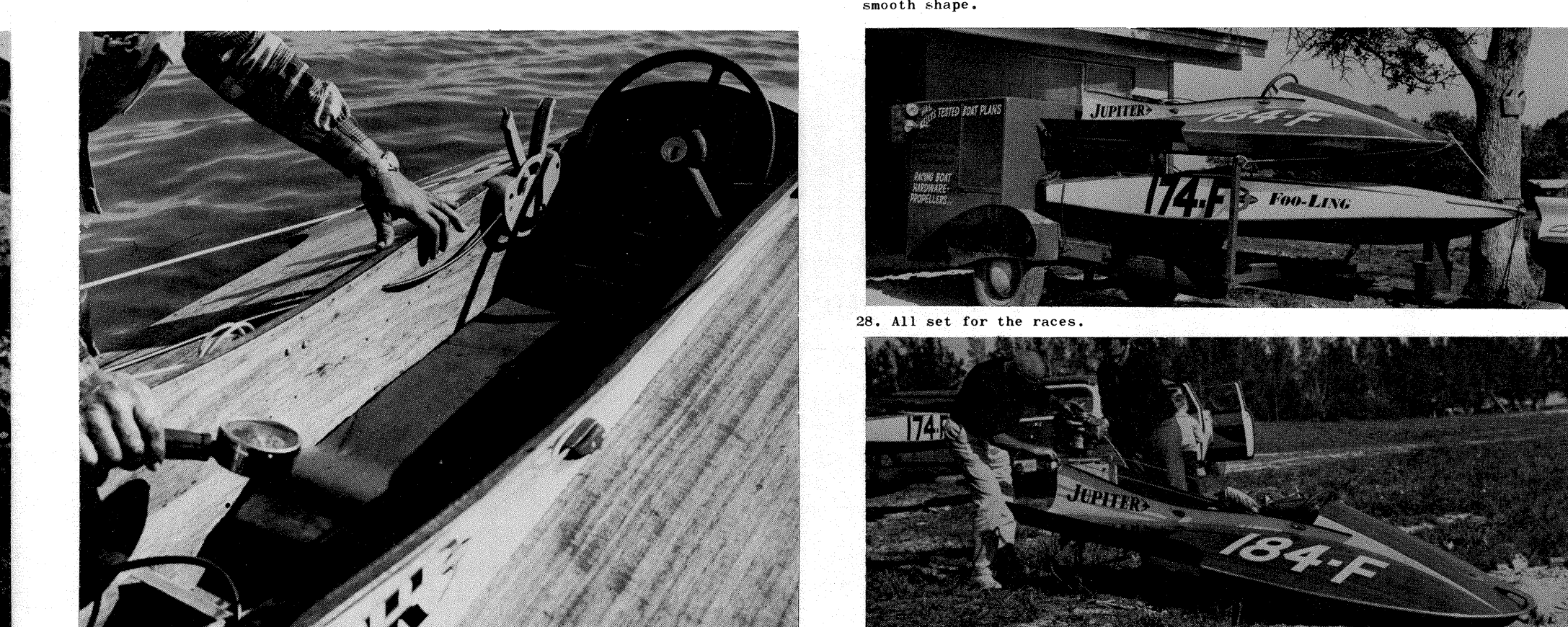
8. The transon is now fastened to the bottom, the girder and non-strip is fastened to the 1/4\"/>



9. The spinnaker chine is made up of two 1/2\"/>



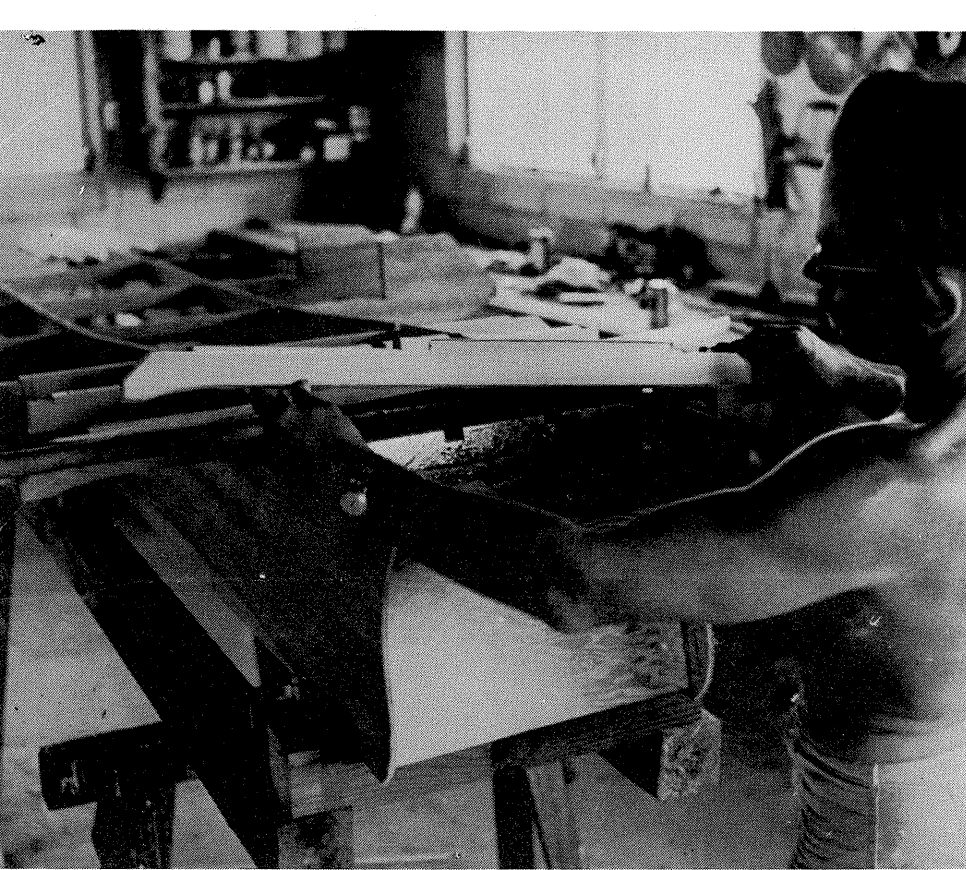
10. Bow piece and spinnaker chine are carefully faired with a file, plane, or a Stanley surfboard prior to planking.



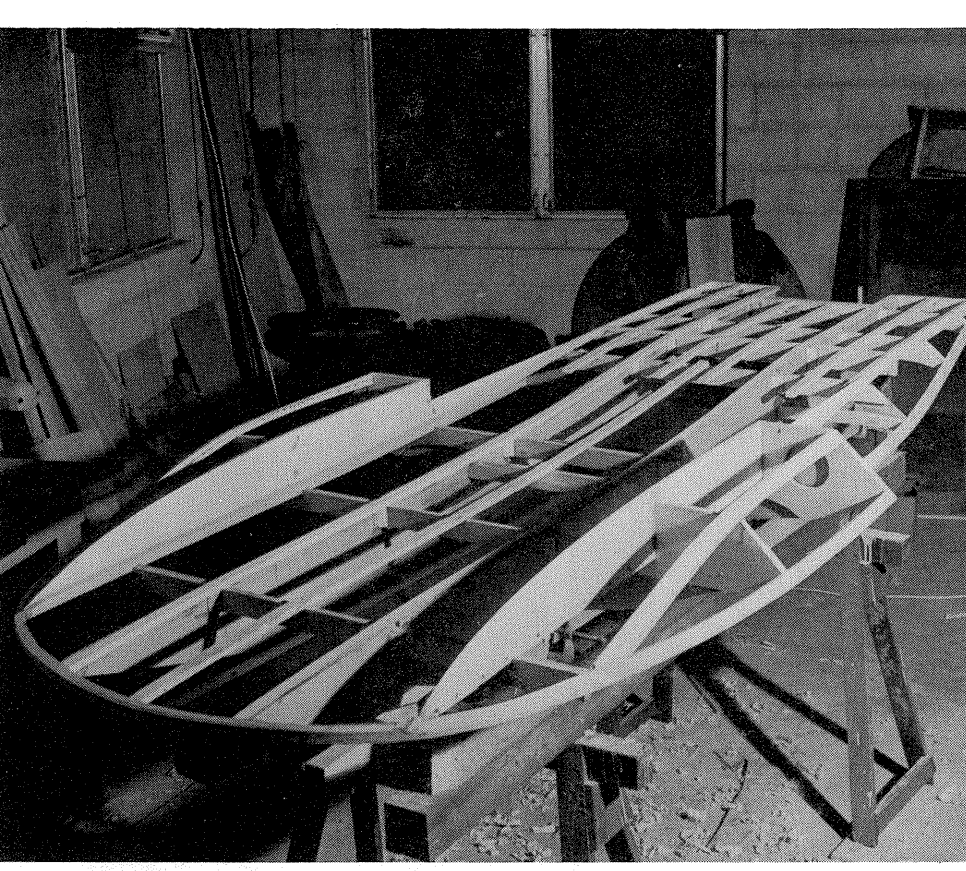
11. Here the whole boat has been faired and is ready for planking. The non-strip behind the spinnaker will require very carefully fairing. The angle of the non-strip becomes steeper near the transon.



12. On rib #5 only, note that all battens are notched. Most of the battens end between ribs 3 and 4, and that the center batten runs from rib 4 to bow.



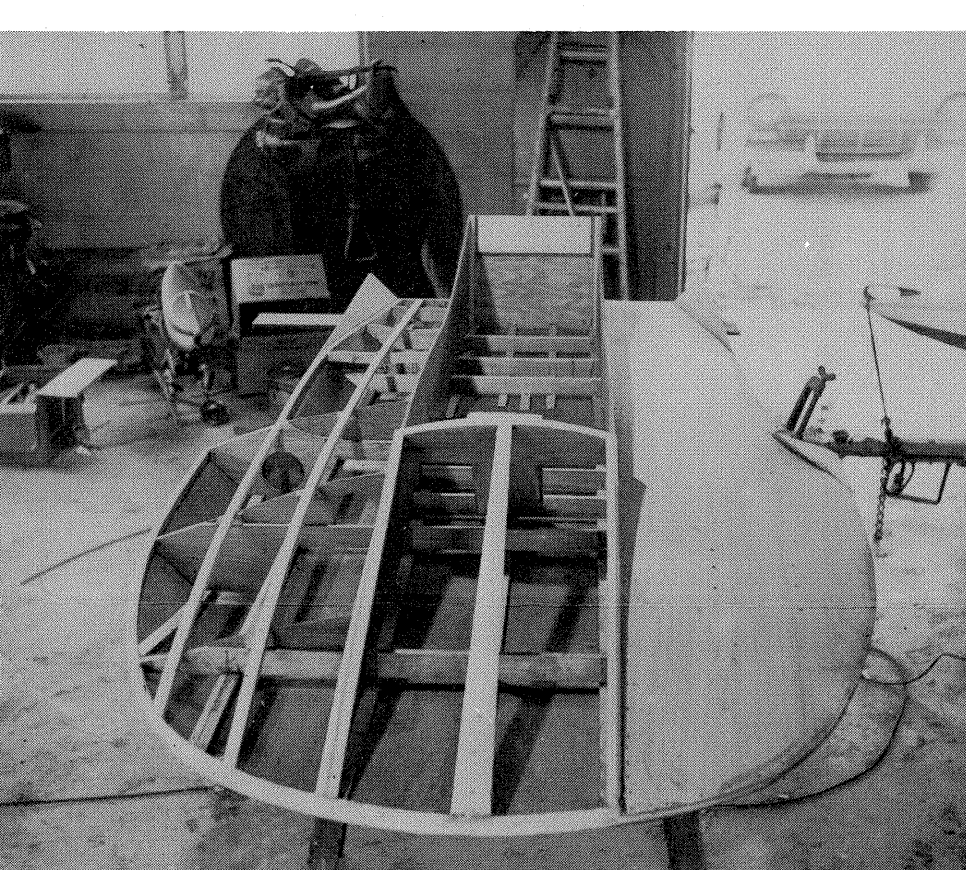
13. Ready for the bottom planking, the flat section of the bottom is next, and runs from transon to rib #5, and at rib #5 has a 45° cut out that the rest of the bottom which also has a 45° cut will overlap at rib #5.



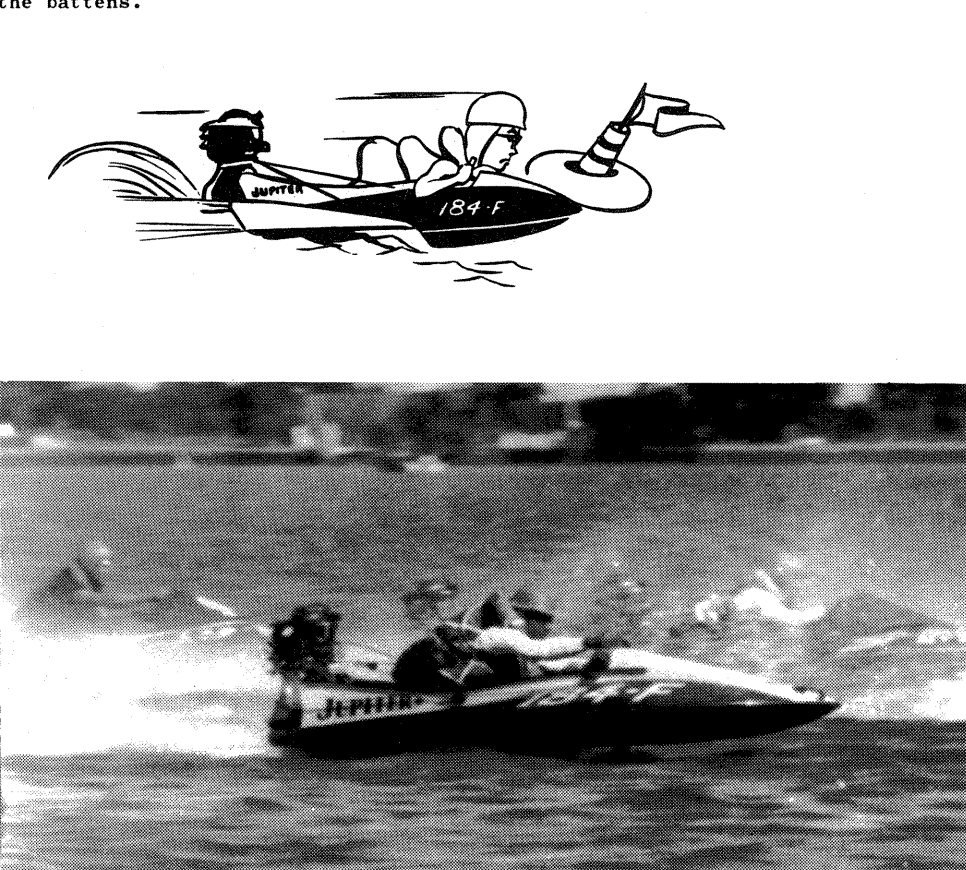
14. The spinnaker planking is next. Carefully fit before gluing and fastening in place. Note that the bottom overlaps the sides, except the front 16\"/>



15. Here the spinnaker planking has been fastened in place, and carefully trimmed. See rib drawings and notice how the side of the bottom has a lip more the back of the spinnaker.



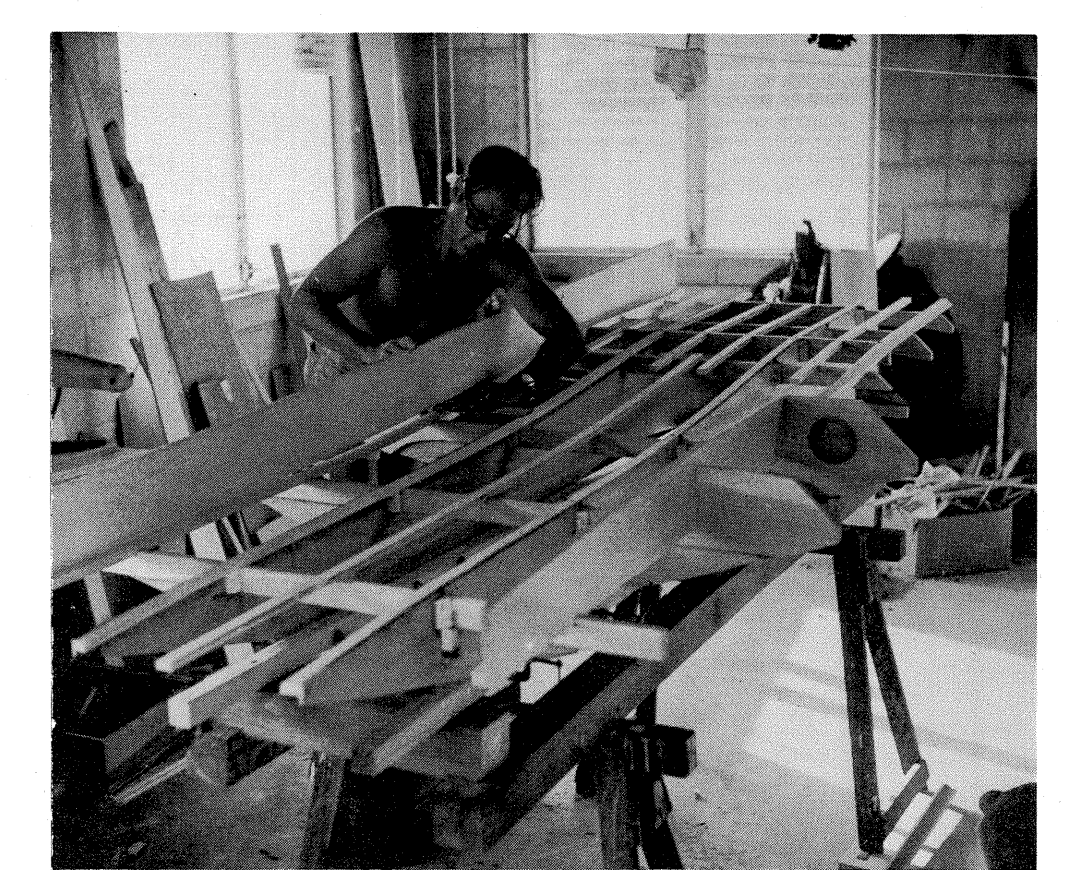
16. One side of the plywood decking is in place. Anchorfast nails are used all around the edge, and a few 1/2\"/>



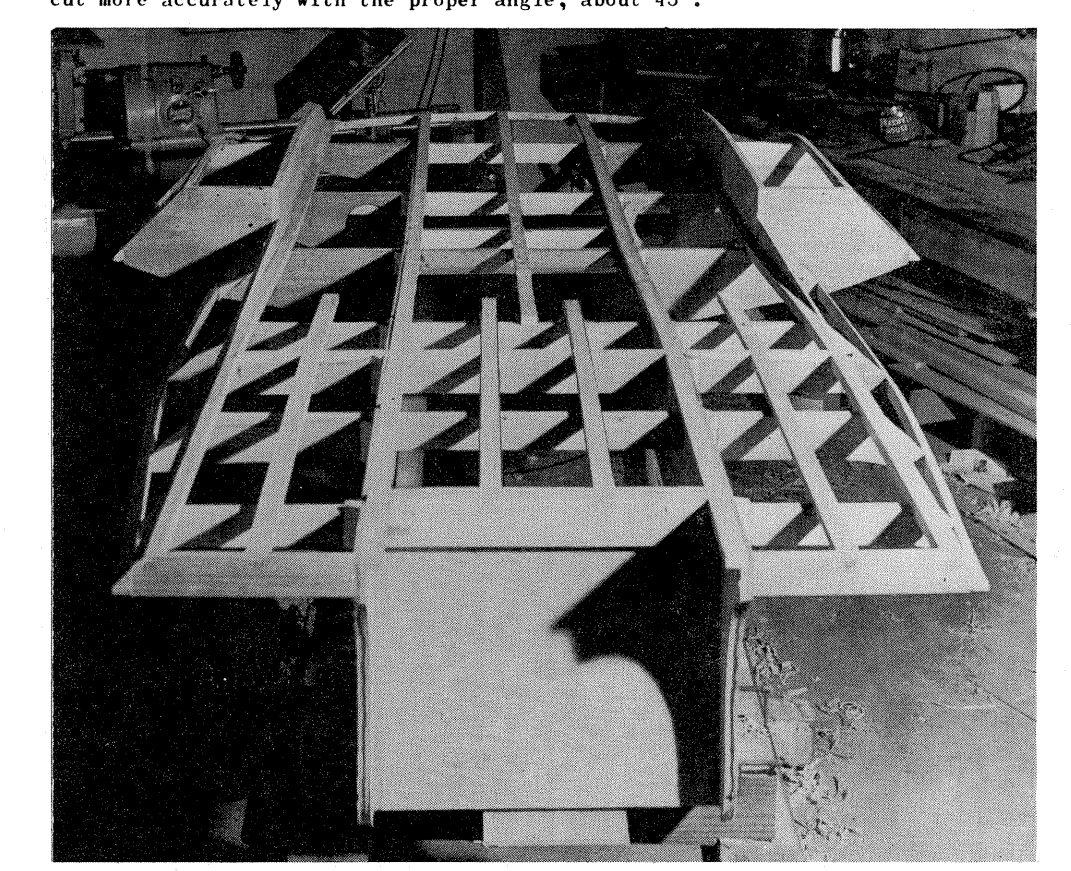
17. Ted Knapman, top racing boat photographer is giving you set-up the once over before photographing Jupiter in action.



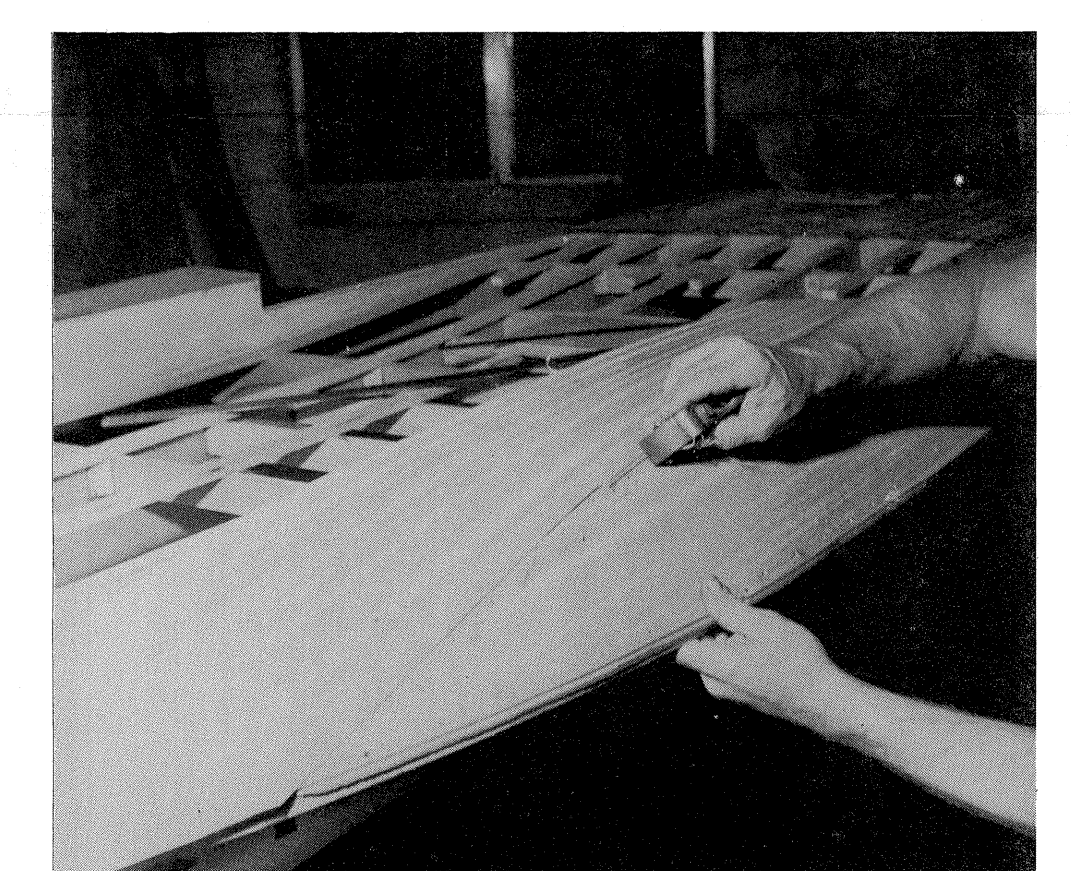
18. Here the decking is being glued and nailed in place. 5/8\"/>



19. Jupiter off the jig. Set her up level so that when you put the deck battens and planking in place you don't build a twist into her. Note false rib between ribs #2 and #3; this is to support the dashboard.



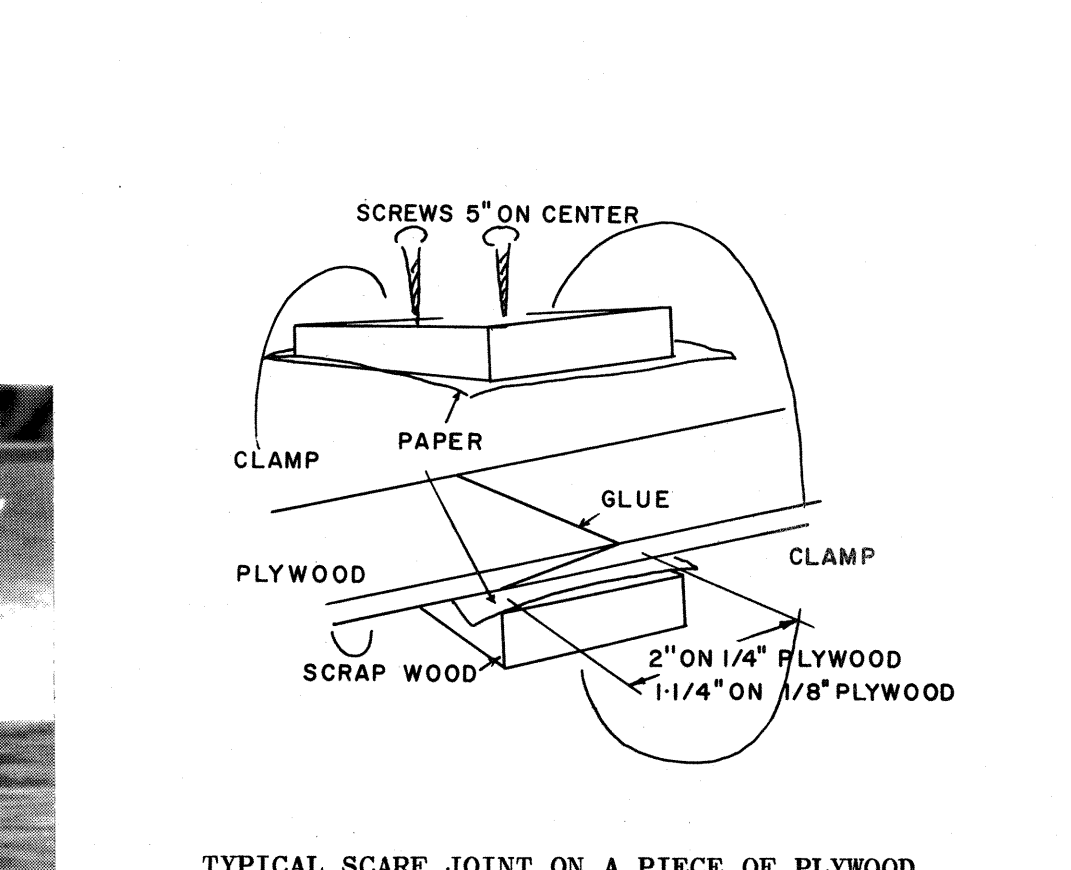
20. Battens are now in place. Filler blocks between ribs and battens will not be needed as this has been corrected in the plan; note that part of the non-strip that sticks up like a fin has been beveled up with another piece of 1/2\"/>



21. In the plan the dashboard has been moved back about 4\", because in her first test run the dashboard proved to be too far up front.



22. Jupiter ready for planking, try to get the deck battens to take a nice smooth curve from transon to rib #5, and at rib #5 has a 45° cut out that the rest of the bottom which also has a 45° cut will overlap at rib #5.



23. One side of the plywood decking is in place. Anchorfast nails are used all around the edge, and a few 1/2\"/>



24. The use of wrapping paper will give you a rough idea of the decking shape, and will save you time and expense.



25. Ted Knapman, top racing boat photographer is giving you set-up the once over before photographing Jupiter in action.



26. Painted bottom with airtraps in place. 1/2\"/>



27. Resinite is used for puttying. It was cemented to 1/2\"/>



28. All set for the races.



29. Now Knapman, top racing boat photographer is giving you set-up the once over before photographing Jupiter in action.



30. Here the decking is being glued and nailed in place. 5/8\"/>



31. Here the decking is being glued and nailed in place. 5/8\"/>



32. Here the decking is being glued and nailed in place. 5/8\"/>



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39. Here the decking is being glued and nailed in place. 5/8\"/>



40. Here the decking is being glued and nailed in place. 5/8\"/>