

# 16<sup>th</sup> Scale 1969 Notre Dame

## Condensed assembly instructions

### Hull:

Tack glue the tunnel sheet to the building board flat from bulkhead-C aft, with the front blocked up .50" as shown . Assemble the stringers and bulkheads A, B & C. Make sure these are square and even with the stringers then glue in place. Glue bulkheads D, E and the transom. Bevel the front of the 3/32" X 3/8" deck strips and glue in place. Bevel the bottoms of the rear non-trip sheets (right & left) and glue these in place. Check the alignment and final glue all joints. Pop the tack-glue spots loose with a long thin knife blade.

Glue the sponson bottoms in place. Bevel the bottom curve of the sponson sides (right & left) and curve them by dipping in water and bending them while heating with an iron, to match the curve of the bulkheads then glue in place. Sand the top of the open structure to a smooth curve for the deck. Glue the deck sides in place with contact cement then add CA to all the outside seams. Trim the deck sides to a smooth profile with the side sheeting.

Add plywood sponson and transom doublers and sponson runners. Remove the center sections of bulkheads B, C, and E as shown. Trim the base of the center section of bulkhead B and glue it in place 1½" forward. Glue the inside stringers and the front and rear cross brace and center deck sheets then add the air-traps. The basic hull is done and should weigh about 4 – 5oz.

Build the hatch cover from sections of 3/32" balsa assembled to match the curve of the deck and to fill the opening around the hatch supports. Cut ¼" balsa sheets to the contours shown for the cowl then carve and sand the cowling to shape. Add the fin, headrest and the balsa motor.

### Hardware:

Bend 1/8" OD brass drive tube to the curve shown on the plans. Cut and solder 5/32" OD tube for the stuffing box and lube fitting. Cut 1/16" X ¾" brass sheet for the strut blade. Solder this to 3/16" and 7/32" OD tubes for the strut assembly. Slip a 2" piece of 5/32" OD tube inside this for a propeller bushing. Line this up as shown in the side view and glue the stuffing tube in the hull at bulkhead – D. Line up the strut to position the propeller training edge 1¼" – 1½" behind the transom and ½" below the bottom. The strut and rudder brackets can be cut from .06" aluminum angle. Position the motor so the coupler lines up with the end of the wire drive shaft. Mount the rudder and turn fin as shown.

### Finish:

Sand, fill with spackling past and sand again. Spray sanding sealer, sand and repeat until the finish is smooth. Spray one or two coats of gloss white, add the trim and logo, then spray a coat of clear over everything. Add details like windscreen, driver steering wheel and gages as desired.