BI-LINER

(Continued from Page 13)

Enough talk. Let's start construction immediately by enlarging the plans, and this is not as difficult as it may look. First, get a piece of wrapping paper and enlarge the quarter-scale plans to full size. All ribs are shown full size. To get the complete templates for the ribs and bulkheads, the "fold and trace" method is used. Fold some tracing paper and place the fold on the centerline on the plan. Then, trace the outline of the ribs, cut out the traced outline, and unfold the paper. Easy, isn't it?

FUSELAGE: First, lay out two sides, using 3/8" square hard balsa. Fill in the sides with 1/4" sheet balsa to former No. 1. Then, connect the sides together with 3/8" square crosspieces, cement all bulkheads into position and then add the planking. Seven 1/8" stringers fair the top rear of the fuselage.

Cut the team-racer type rear gear from 24-ST aluminum, and bolt it to the 1/4" plywood anchor. The nose gear is formed from 1/8" piano wire and held to the firewall with "J" bolts or commercial clamps.

The 7" x 3/8" x 1/2" maple mounts are held in with Weld-wood glue, fibreglass resin, or hot-fuel-proof cement. The bottom of the cowling is carved and hollowed from a 2 1/4" x 3" x 3" balsa block. The top of the cowl is carved from a 2 1/4" x 1 1/4" x 6" balsa block. Since the top of the cowl is to be taken off for engine and tank access, it is keyed with little blocks or dowels, and held in place with a small bolt. Solder the nut to 1/4" brass shim stock, bolted to the back of the engine. The cowl is fitted into a 2" aluminum or plastic spinner ala racer team. The top-center of the fuselage is carved and hollowed from a 1 1/4" x 1 1/4" x 2" balsa block. This block serves as a good rugged mount for the top wing. The plastic canopy is cemented on top after covering. Rubber-tired wheels are attached to the rear gear with 6-40 bolts serving as axles. Use two 6-40 nuts as spacers between the aluminum gear and the wheels so that the wheel pants can be slipped over the wheels. A soldered washer holds the front wheel in place.

The wheel pants are optional. The two rear wheel pants may be removed with ease. Two 2-56 bolts (Please turn to Page 45)