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especially when installing the engine and accessories. Fasten the engine and tank securely, using lock washers.

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Awaiting a contest to try the Mars in competition, Douglas Spree and I went to Tucson, Arizona. Doug, with his Mars, came out a top appearance points winner. The interest of attending modelers and spectators thrilled us both, and I knew we had a good all-around stunter for sure.

Cut fuselage doubler using side view. Lay out tank mounts and cement. Install P2 and P1 in place, square assembly and let dry. Cut sides out, including wing slot. Cut bulkheads out and cement in place. The engine used is a Fox 35, but any 28 or 31 with firewall mounting is perfect. A 10 Torpedo would do well, too. In the case of the Fox, where the three bolts are tapped in the case, I used 4-40 x 1¼ screws and cut them off, then ran a nut upon the case and through the firewall and fastened with another nut and lock washer. Cut the hatch block out and leave uncontoured until cowl blocks have been cut. By studying plan and seeing where hatch separates, you'll see that part of the cowl block on the right side is cemented to the cowl block. Cement the belly block in place, cement the two cowl blocks and cement on the left one.

Landing gear will require some careful bending. For this reason I used 3/32" wire and soldered it double. You will notice Veco landing gear clips holding the nuts for the three bolts of the engine, thus serving a dual purpose. Cut the belly block into gear location. Install the engine, lower cowl and hatch block, and cut out until engine has just enough clearance. Cut the hub of a broken propeller and install the spinner. With the spinner on the hatch blocks and cowl block on, refer to drawing and photographs. Carve to contour of spinner.

The top deck is a solid soft balsa. Tack cement and carve to shape. Carve out the canopy, remove top deck, and finish inside of cockpit. I used railroad paint, but first, prepare wood for finishing as prescribed in the painting of model. I used gray paint for flooring and black for headrest and radio equipment.

Cut ribs as shown and assemble trailing edge. Remember inboard wing is shown on the plan and left wing will be 2" shorter. Splice 30° pieces in overlap, as center line. In other words, not at the center line, but the bottom being in overlap, from the top splice on a rib. Cement up trailing edge on a straight board. By pinning trailing edge in upright position, mark rib locations and insert ribs. Mark location on 3/16" sq. in. spars, and cement and hold with rubber bands. You will notice holes in ribs for 1/8" sq. in. To make it easy, bandsaw a stack of ribs and drill a 3/16" hole. A 1/8" sq. can be slid through these holes. Cement to each rib assembly, rib 3 and rib 4, and wingtip. Wingtips are of 1/4" balsa and spliced like free flight. Flaps are of 3/16" balsa and sanded to a tapered edge of 3/32". Assembly flaps with horn and cement horn well. Leave the flaps off until wing is assembled.

Cut the stabilizer and elevator out of 3/16" balsa. Lightly cement stabilizer to elevator, then carve to airfoil shape. Cut out as shown on plan, and inset ribs that are oversize. After they are dry, file into contour of stabilizer. Now cut rudders to shape, cut a notch in rudder. The rudder is set in the stabilizer by the tongue method. Set rudder in place and replace the pieces on each side of the tongue. This will help hold your rudders good and secure. Building a thick tail may be new to you, but it really pays off in smoothness and less stalling out.

Install the Veco horn in the elevator, cement hinges on, and cut 3/32" control rod to length, within 5° of bellcrank, by taking brass tubing of 3/32" inside diameter. Saw off lengths of 3/32" and use them instead of washers to hold control rods on the horns, and solder well. Install the tail on the fuselage, being very careful to line up on center line and horizontally.

This gear not only has spring effect but torsion also. Look at the plan and bend accordingly. Wrap with string and cement well. Bolt landing gear clip on bellcrank rack. Banner wheels are very realistic. Install wing in place. Measure landing and trailing edge.