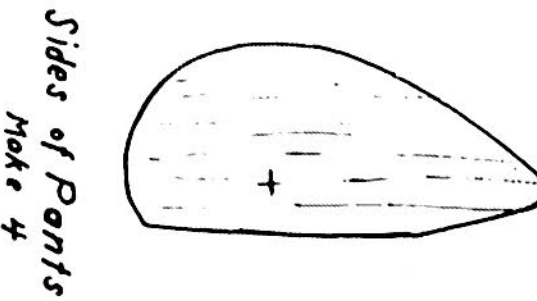
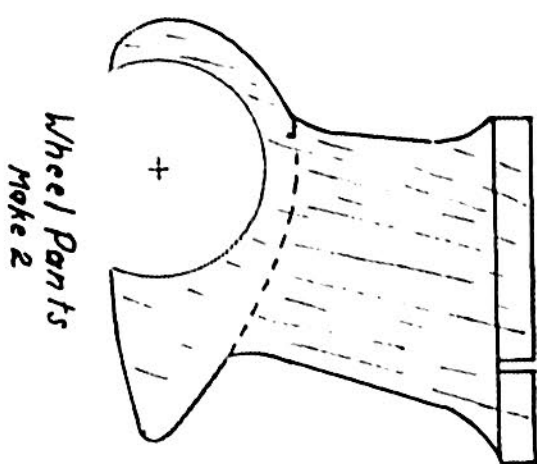
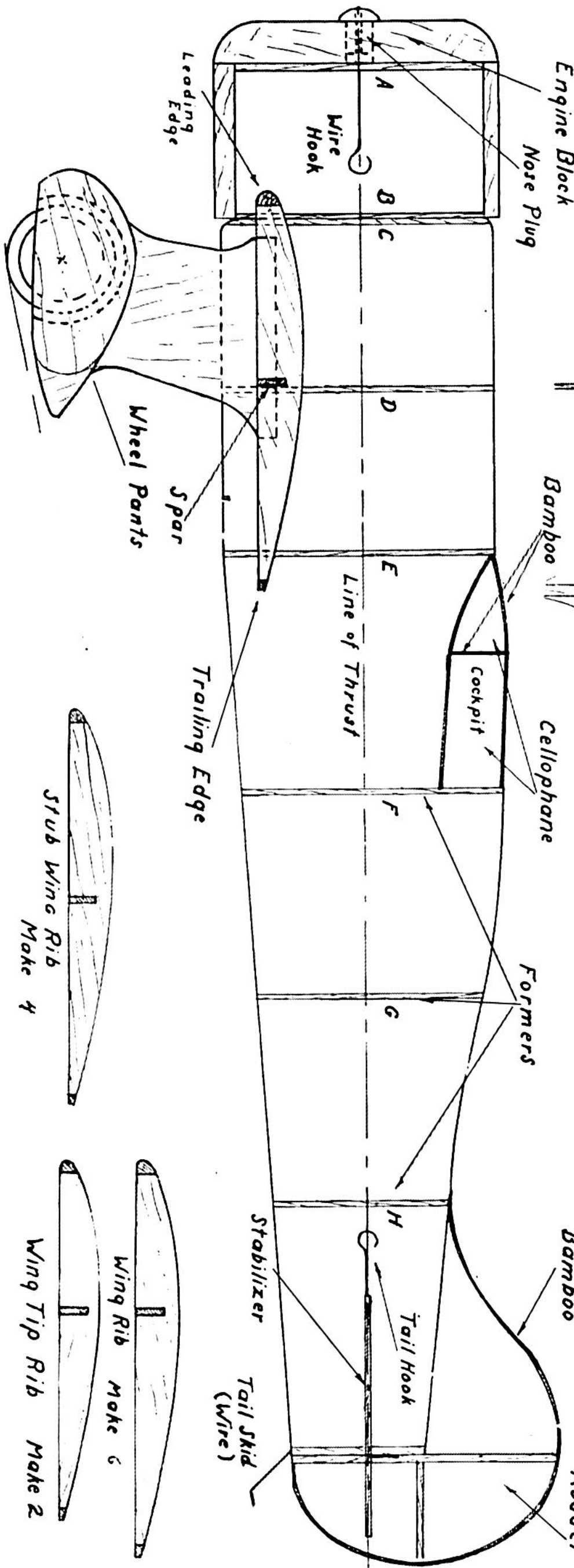
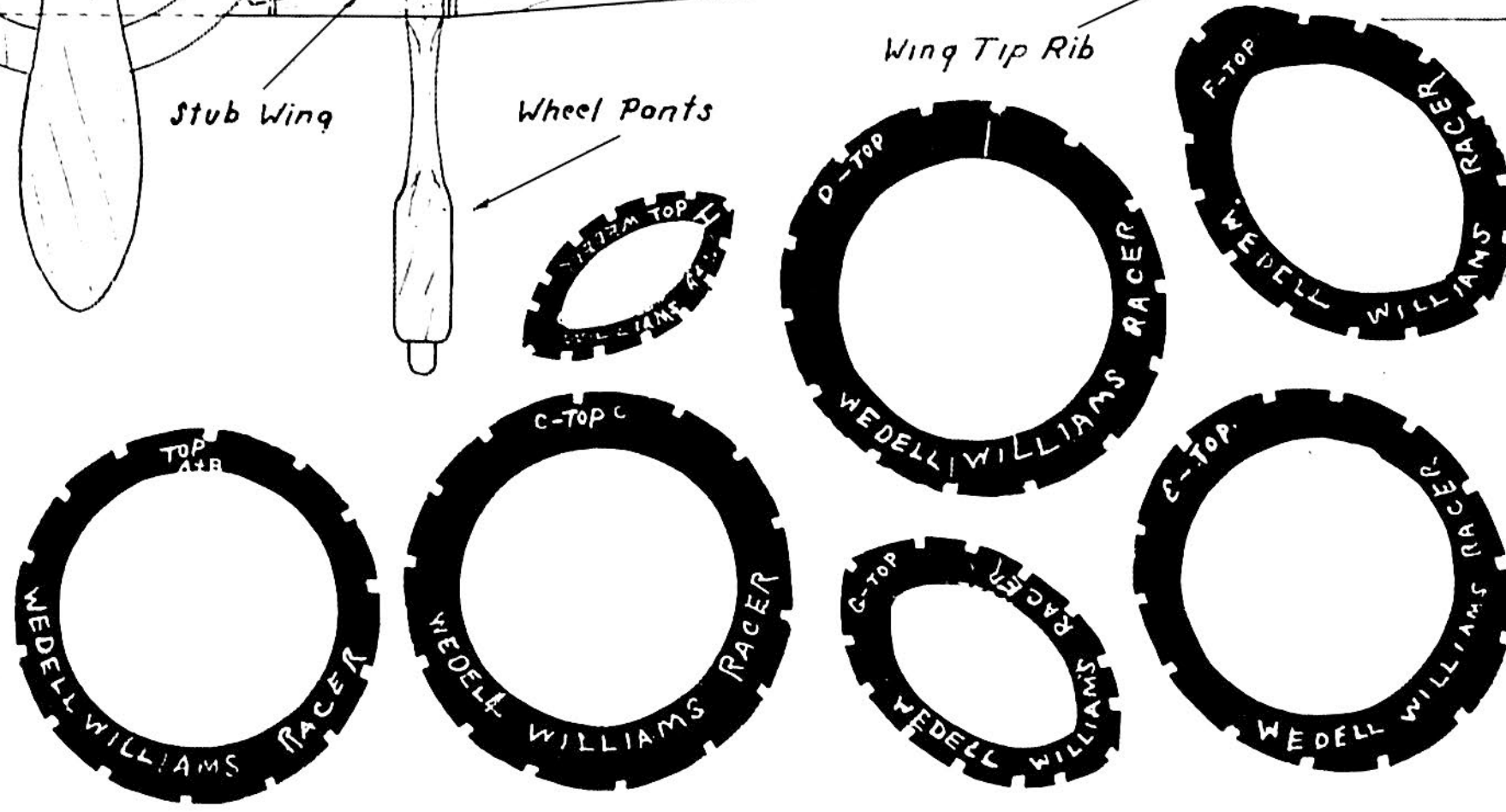
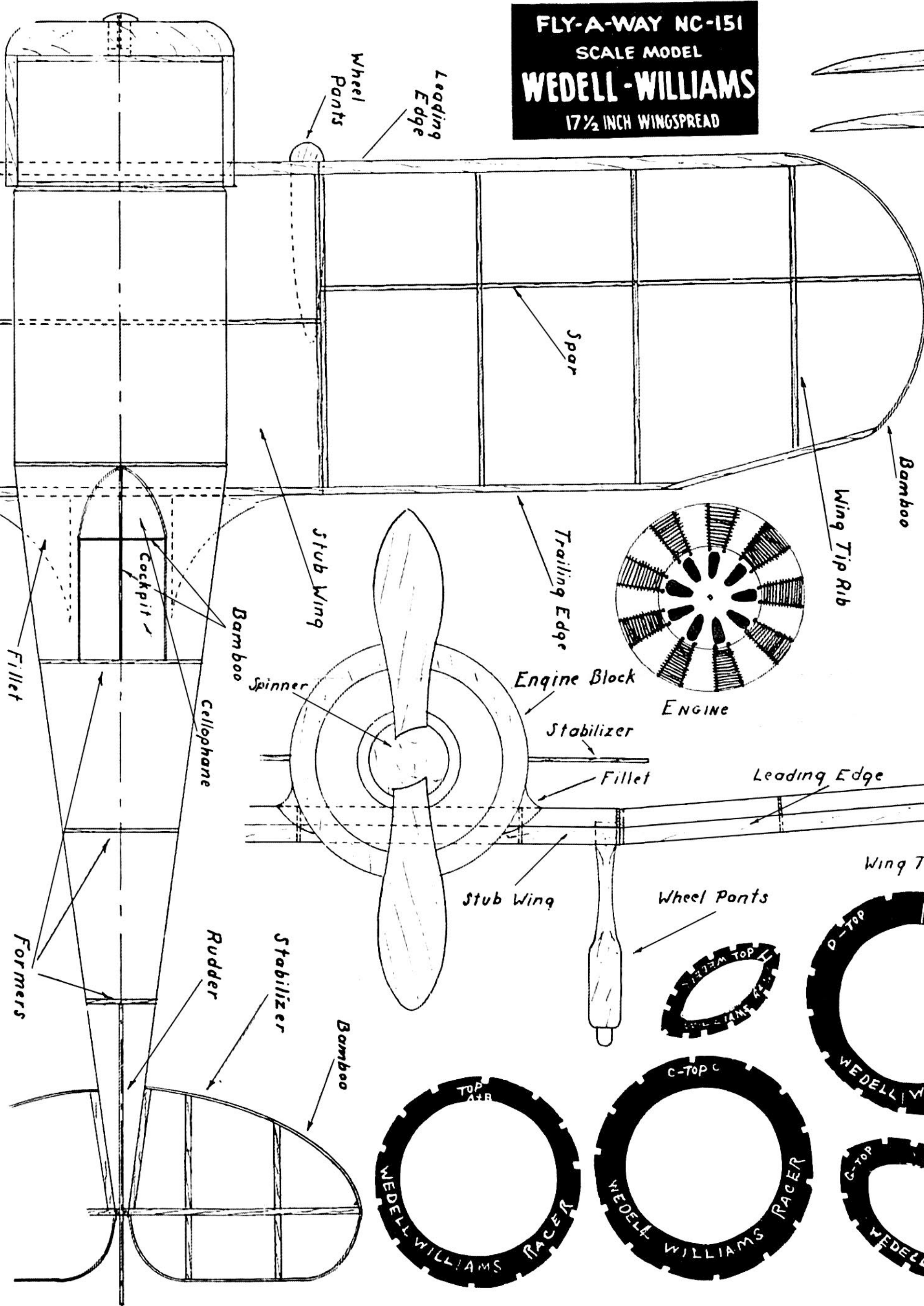


Top View
Side View
Fillet
Section A-A



FLY-A-WAY NC-151
SCALE MODEL
WEDELL-WILLIAMS
17½ INCH WINGSPREAD



Flying Models to be successful must be made accurately. Study your drawing carefully before you start to build the model. The general practice is to make the various individual parts—and then to assemble the plane. After the assembly is completed the model is to be carefully balanced. Finally the tissue is tightened or shrunk by spraying the model with water. Then it is ready for flight testing.

Parts Construction: 1. The Body. The body is made in two sections, AB and C to I. Make C to I first. Cut out the formers from sheet balsa. Cement the stringers in place. Do not try to put in all stringers at once. Start with four in square or oblong pattern. After you have attached these to the various formers, then go ahead with the rest of the stringers. Cement nose block in position. The stringers between section A and B are made from 1/16"x1/8" and put on edgewise and then covered with thin balsa. Do not cover the body with tissue until no instruction.

ed. Let body frame dry for one hour. Cement tail hook and tail skin in place. Form cockpit frame with bamboo and cover the cockpit with cellophane. Bend bamboo by holding over a flame. 2. The Wings. Build the end sections of the wing and cover with tissue. Then build the mid-wing section (stub wing). Note the center spar of easily if you use a long wire with a hook on the end. Hook one end in propeller shaft and drop the other end through the body and hook to tail hook. This can be done quite the stub wing is cemented to the forward wall of "D" former and that the spars forming the leading and trailing edges of this wing section run through the body directly above the three bottom stringers. Put in the sheet between the body and the stub wing. Now cover the body and stub wing with tissue. Note that the rudder and tail section of the plane are covered with the same color tissue as main wings, and that the forward portion of the body and the stub wing are covered with second color tissue. Cut engine

diagram from plan and stick to nose of body. 3. Build the stabilizer on plan after protecting plan with wax paper. Cover with tissue. Make the pants and attach to body. 5. Make the propeller. The propeller is assembled as follows: Run the propeller shaft through the wooden bearing (nose plug), then through the washers, and finally through the propeller. Bend wire and cement in place.

The Assembly: Accurate alignment is essential to success. Study your plans thoroughly and note exact position of wings and stabilizer. Attach wings to stub wing. 2. Cement stabilizer in position. 3. Propeller hook-up. The rubber thread with a square knot. Loop it twice. Hook the wire to the rubber and pull the wire through the body. Slip the loops of rubber over the tail hook. (The knot should be near the tail hook.) 4. Balance the plane. Point of balance is about one-third back from leading edge of wing. If tail heavy, put weight in the nose. BB shots make good nose weights. If nose heavy, put weight in the tail. 5. Spray plane, except tail surface, with water to shrink tissue.

Flying: This type of model flies best in a very light wind or in a calm. Do not attempt to fly it in a high wind. Be sure you have plenty of room—free of trees and other objects. Your plane is not likely to fly well unless it glides satisfactorily. Hence, the first thing to do is to try a glide. If it noses down in a steep glide, raise the stabilizer (trailing edge) slightly. If it makes a flat glide or goes into a stall, lower the stabilizer slightly. If it turns to the left, correct with opposite rudder—or by warping opposite wing. (Main-carrying planes make this correction by a little opposite rudder and ailerons.) Now for your first flight. Put about 50 turns on the rubber and let it go. Make whatever corrections are necessary by warping wing or tail surfaces or by correcting balance. Fly again. Once the plane is in proper adjustment, wind rubber fully and fly.