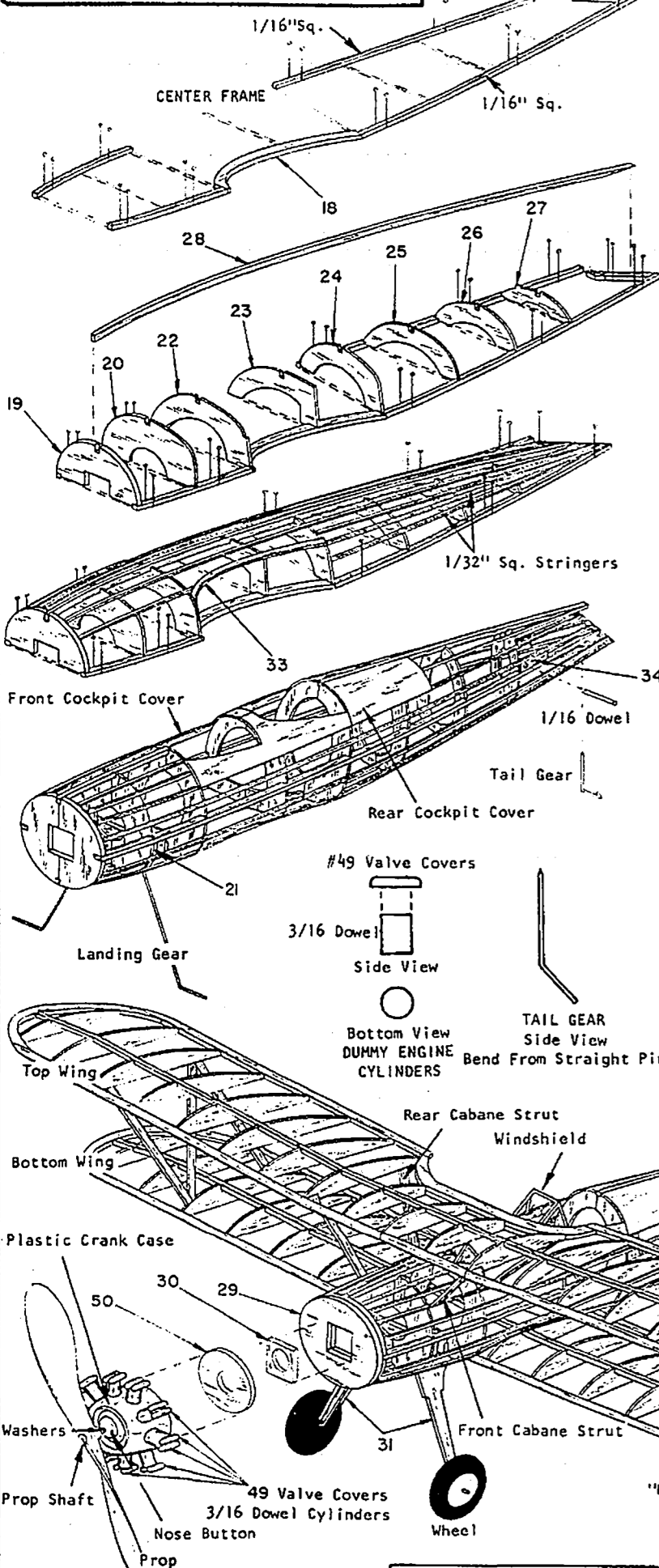


FUSELAGE ASSEMBLY



STEP 1

Remove any creases in plan. Tape down to building board, and cover with kitchen film to prevent frame from sticking to plan. Printed parts may all be cut out before construction is started. Using wire provided, bend landing gear to shape of full-size pattern. Solid black lines on full-size side view is the fuselage center frame. Cut 1/16" square strips carefully to length, pin & cement in place. Add part #18. Allow center frame to dry thoroughly.

STEP 2

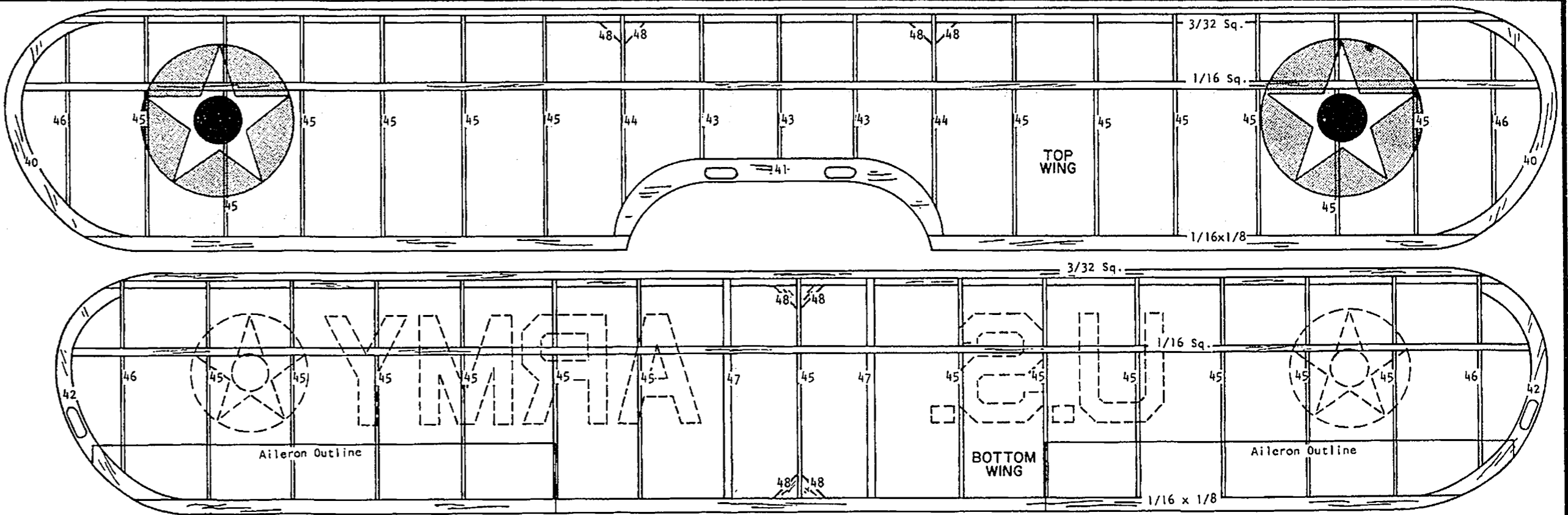
Step 2 and Step 3 should be done one after the other to prevent glue from setting permanently before parts are aligned. Cement all Bulkhead halves from #19 thru #27 vertically in place, then cement Side Keel #28 into long slots in Bulkheads as shown.

STEP 3

Note that Side Keel (as well as stringers that will be installed) are in many cases past edge of Bulkhead, as shown in sketches. Moisten #33 with water to aid in bending then cement #33 to side of Bulkheads from #22 to #24 as shown. Using the 1/32" printed parts sheet cut seven 1/32 sq. stringers 9 inches long. Install the 1/32 sq. stringers as shown in sketch, photo and side view. Any of the top stringers not visible in this Step Sketch can be seen in next Step Sketch and are installed after front and rear cockpit covers are added in next step. Allow framework to dry thoroughly.

STEP 4

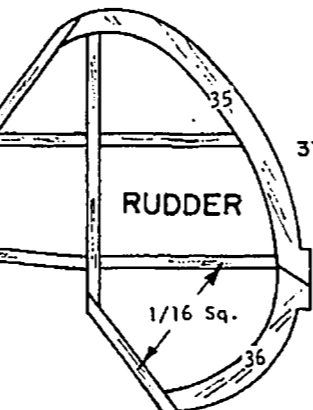
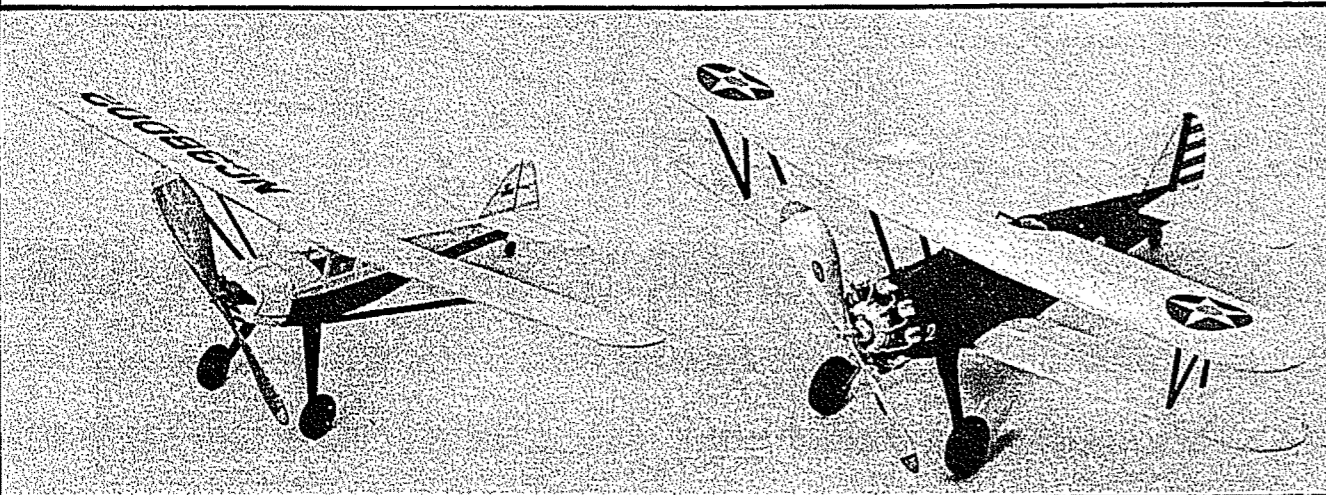
Remove frame from flat surface and cement opposite side of Bulkheads in place, followed by Side Keel as described in Steps 2 and 3 (DO NOT MAKE ANOTHER FUSELAGE CENTER FRAME ASSEMBLY). These Bulkhead halves are cemented to the fuselage frame you have just removed from the flat surface. Complete right side of fuselage in same manner as left then cement #34's to either side at location shown. Cement landing gear against rear of Bulkhead #20, followed immediately by Bulkhead #21 sandwiching gear between. Add two front bottom 1/32 sq. stringers from Bulkhead #19 to #22. Clip off head of straight pin, bend tail gear to shape shown on pattern. Cement tail gear in place as shown in sketch and Side View. Check fuselage assembly with Top View to be certain fuselage is aligned properly. Also check from front and rear to be sure fuselage is not distorted. 1/16" Dowel which holds rubber motor at rear is shown in this sketch for clarity only, it is installed in Final Assembly. When framework is thoroughly dry, sand lightly to prepare for tissue covering.



FINAL ASSEMBLY

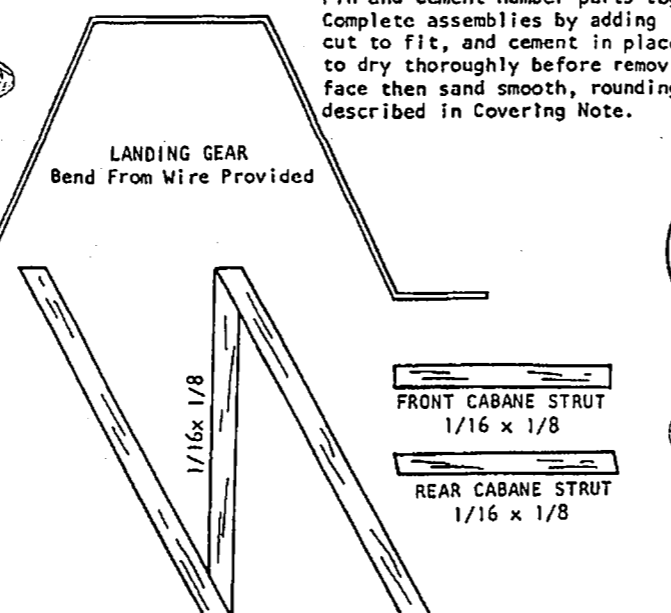
Although sketch shows model uncovered, all components are actually covered (as described in Covering Note) before assembling model. Cement stabilizer and rudder to rear of fuselage, being certain stab is horizontal, rudder vertical. Top wing is assembled to fuselage by cutting a wing template from cardboard using pattern provided. Pin template to top center of fuselage and set wing in place (centered). Cement wing struts A & B in place on each side as shown in sketch and side view. Check that wing is aligned properly and allow to dry. Cement bottom wing into fuselage and immediately cement outer N struts in place as shown. Check alignment carefully and allow to dry then remove cardboard template. Cement landing gear struts #31 to side of wire landing gear. Slip wheels on axles and add a drop of cement to protruding axle to secure wheels. Cement #29 to front of fuselage and round off with sandpaper. Place #30 into corresponding cut-out in #29, trimming if necessary for snug fit. Apply a coat of cement to front of #30 ONLY then put #50 in place, centered. When cement is dry remove assembled #30 & #50. Cut Engine Crankcase from plastic sheet and cement #50 into rear of Crankcase with #50 protruding 1/16". Use very light coats of wood model airplane cement on this installation

to prevent distortion of plastic. Cut nine pieces of 3/16" dowel 1/4" long for cylinders. Drill 3/16" Dia. holes in Crankcase at marked locations and cement the dowels in place as shown. Cement #49's to each side of cylinders as shown. Using celluloid provided, cut windshields to pattern shape and cement in place. Slip nose button on propeller shaft, followed by the two washers. Insert shaft through rear of prop and make a 90° bend in end of shaft to engage prop. Install rubber loop by dropping thru fuselage. Push dowel thru hole in #34, thru rubber loop and into hole in opposite #34, thus capturing rubber. Bend wire hook out of paper clip and pull rubber loop out of fuselage and engage in propeller shaft hook. Use PLASTIC MODEL PAINT for any paint trim. Slip tailwheel #32 on tailgear and secure with drop of cement. Scale details such as on Engine, Rigging Lines, Cockpit Coaming, etc. are made from scrap if desired. Apply decals at locations shown. Scale control surface outlines may be drawn carefully with India ink or thin strips of black tape. Your Peanut Scale Stearman PT-17 is now finished. Be sure it balances at arrow shown on side view, and that you read flight instructions on opposite side before flying. GOOD LUCK AND GOOD FLYING!



TAIL ASSEMBLY

Pin and cement number parts together over plan. Complete assemblies by adding 1/16" square strips. cut to fit, and cement in place. Allow frames to dry thoroughly before removing from flat surface then sand smooth, rounding edges. Cover as described in Covering Note.



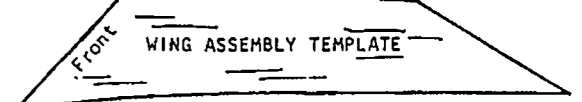
WING STRUT DETAIL

Cut 1/16" x 1/8" strips to length, tapering bottom as shown. Pin and cement together over full size plan. When dry sand smooth, rounding corners. Make two assemblies.

TISSUE COVERING

Frame is covered tissue dry. Use clear dope to attach tissue. Apply a light coat of dope to the outside edges of the area to be covered and allow to dry. Cut tissue to shape required, about 1/4" oversize all around. Apply a second coat of dope to the frame, then put the tissue in place smoothing into frame and working out any wrinkles. When dry, excess tissue is trimmed off with sharp blade. If any wrinkles develop, cut out wrinkled area (bounded by nearest framework) and recover section. Fuselage is covered with blue tissue, wings and tail surfaces are covered with yellow. COVER BOTTOM OF WINGS using 1 piece for each. Cover top of wings in separate pieces; center section and outer wing panels. If any problem of wrinkles is encountered on tips or center section, use separate pieces of tissue. COVER STAB AND RUDDER with single piece of tissue for each side. COVER FUSELAGE using as many strips of blue tissue as necessary to avoid wrinkling. Using a fine spray (such as from a perfume atomizer) spray tissue lightly with water to shrink. BE SURE TOP AND BOTTOM ARE SPRAYED AT THE SAME TIME! Set aside to dry on end, so that it is surrounded by air, permitting equal drying. This should prevent warps. Apply 3 coats of clear dope thinned with equal parts of thinner (50/50). Apply to top and bottom of surfaces AT SAME TIME and allow to dry in same manner. Check that wings and tail surfaces are free of warps before assembling. Warps can be removed by holding over steam (from boiling kettle) and twisting gently in opposite direction. Hold until cool and check again. Model is now ready to be assembled as described in Final Assembly.

WING ASSEMBLY

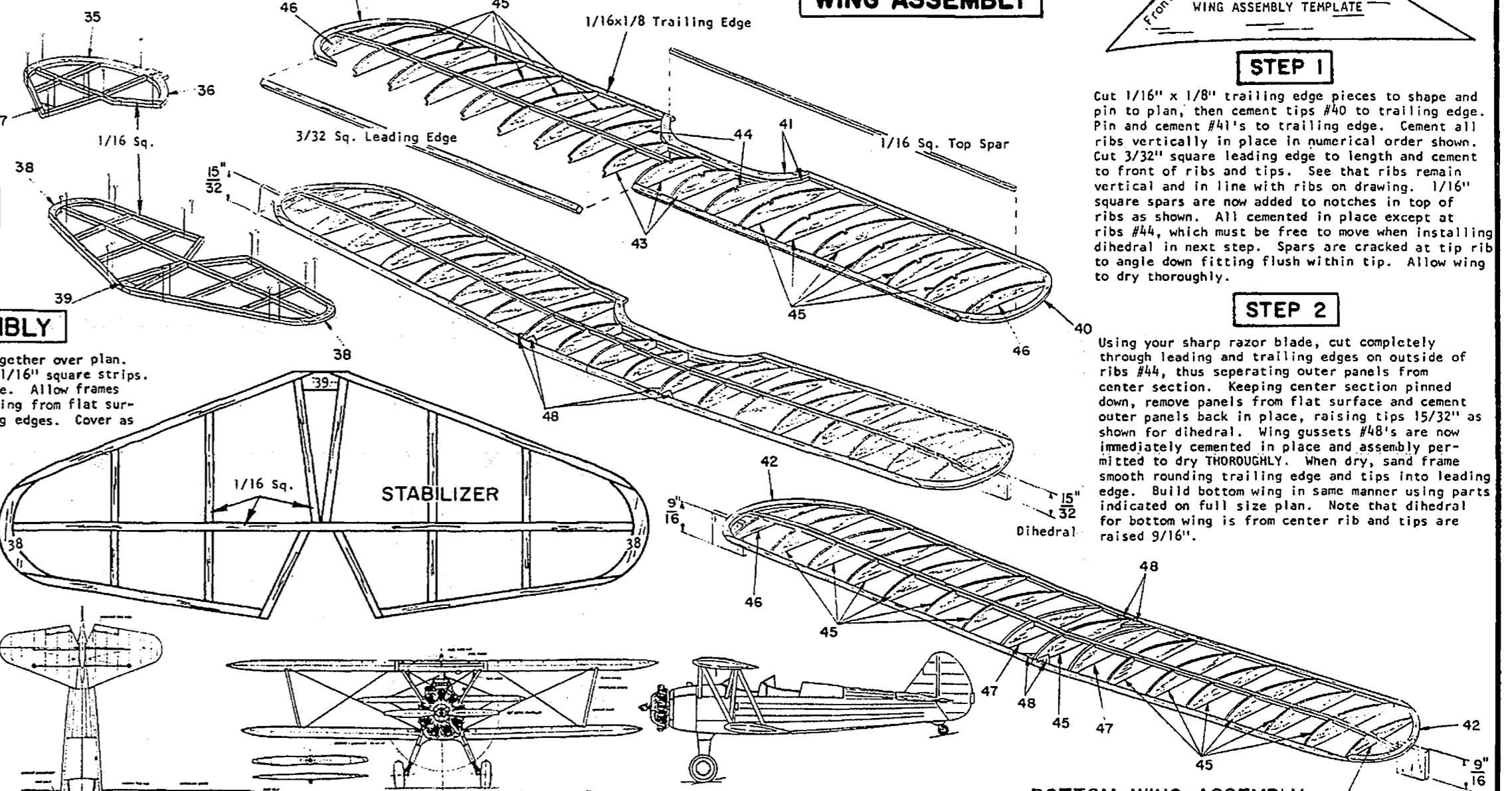


STEP 1

Cut 1/16" x 1/8" trailing edge pieces to shape and pin to plan, then cement tips #40 to trailing edge. Pin and cement #41's to trailing edge. Cement all ribs vertically in place in numerical order shown. Cut 3/32" square leading edge to length and cement to front of ribs and tips. See that ribs remain vertical and in line with ribs on drawing. 1/16" square spars are now added to notches in top of ribs as shown. All cemented in place except at ribs #44, which must be free to move when installing dihedral in next step. Spars are cracked at tip rib to angle down fitting flush within tip. Allow wing to dry thoroughly.

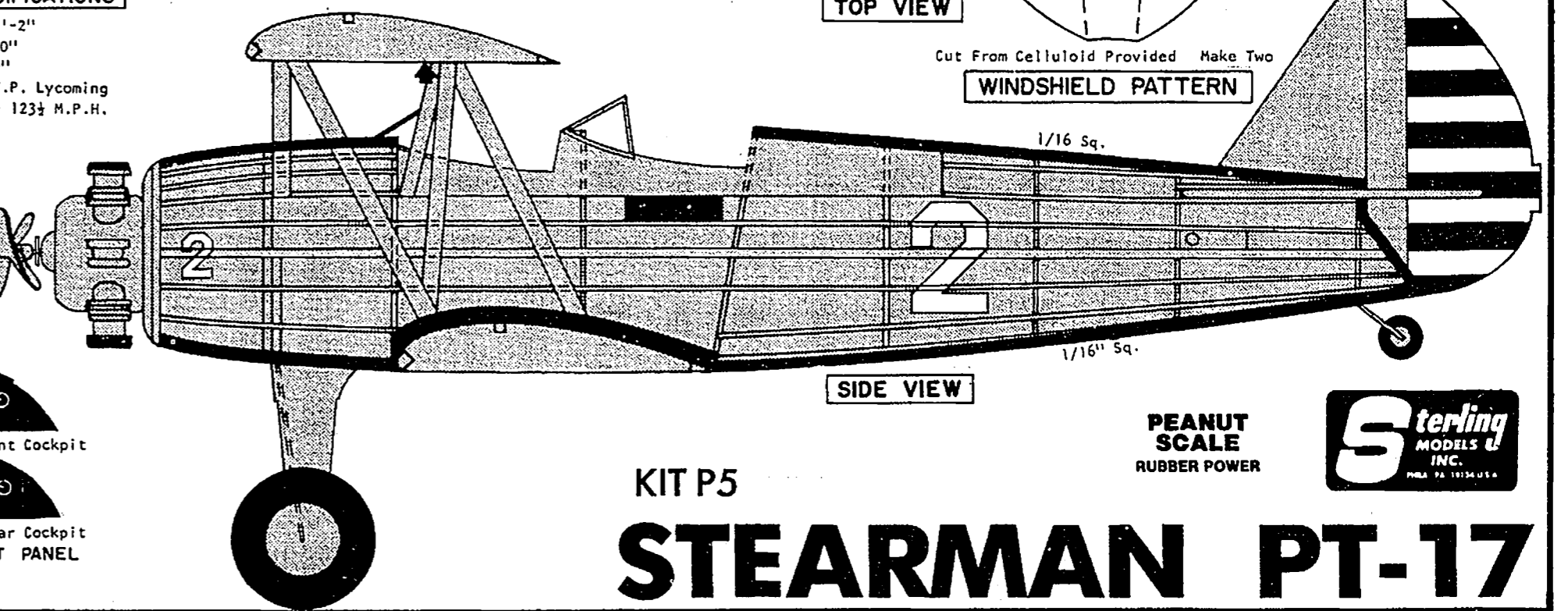
STEP 2

Using your sharp razor blade, cut completely through leading and trailing edges on outside of ribs #44, thus separating outer panels from center section. Keeping center section pinned down, remove panels from flat surface and cement outer panels back in place, raising tips 15/32" as shown for dihedral. Wing gussets #48's are now immediately cemented in place and assembly permitted to dry THOROUGHLY. When dry, sand frame smooth rounding trailing edge and tips into leading edge. Build bottom wing in same manner using parts indicated on full size plan. Note that dihedral for bottom wing is from center rib and tips are raised 9/16".



SCALE DETAILS AND SPECIFICATIONS

Wing Span-32'-2"
Length 25'-10"
Height 9'-6"
Engine-220 H.P. Lycoming
Max. Speed - 123 1/2 M.P.H.



KIT P5

STEARMAN PT-17

PEANUT SCALE RUBBER POWER

