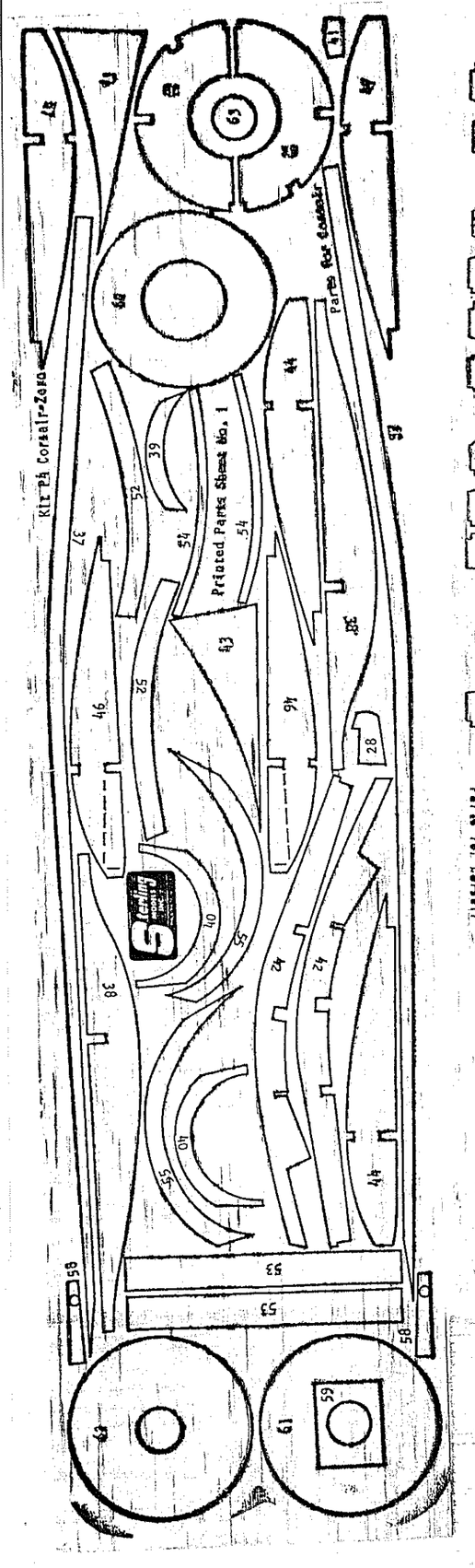
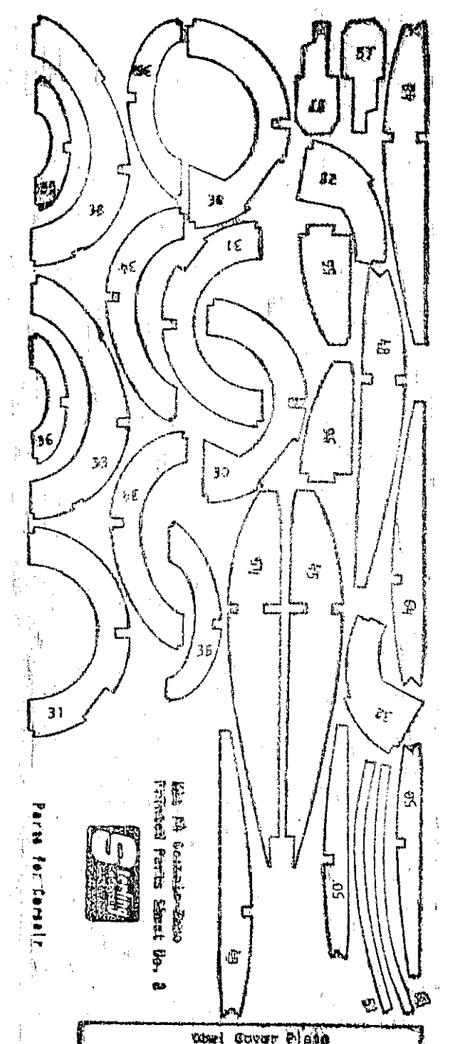
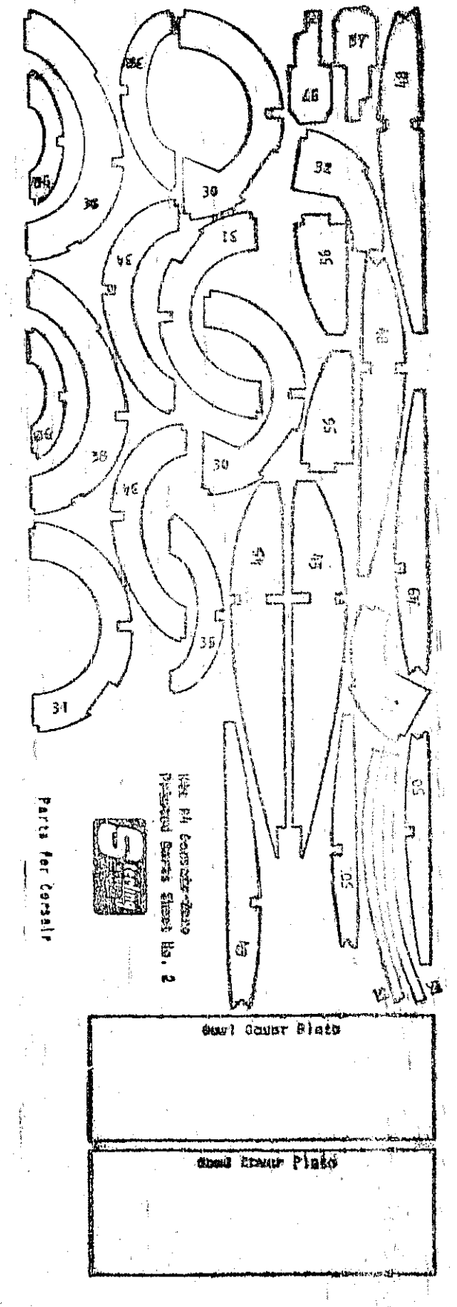
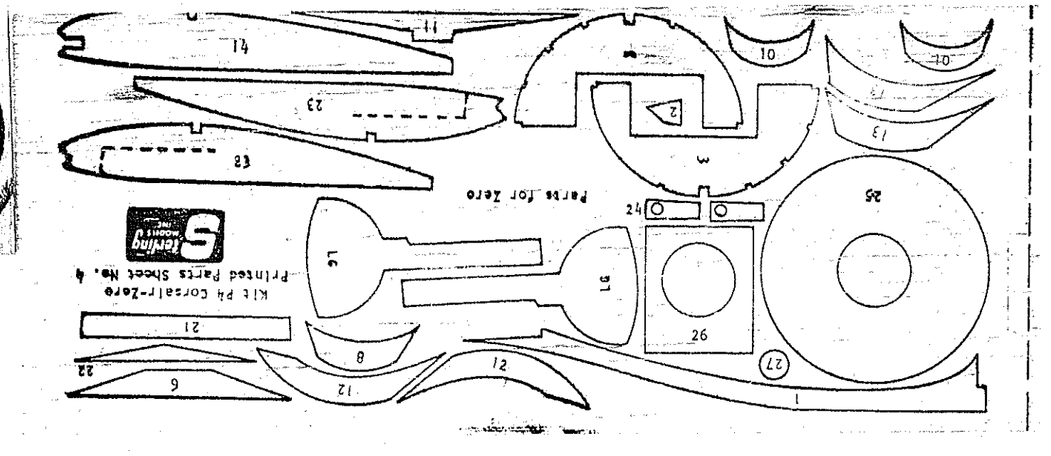
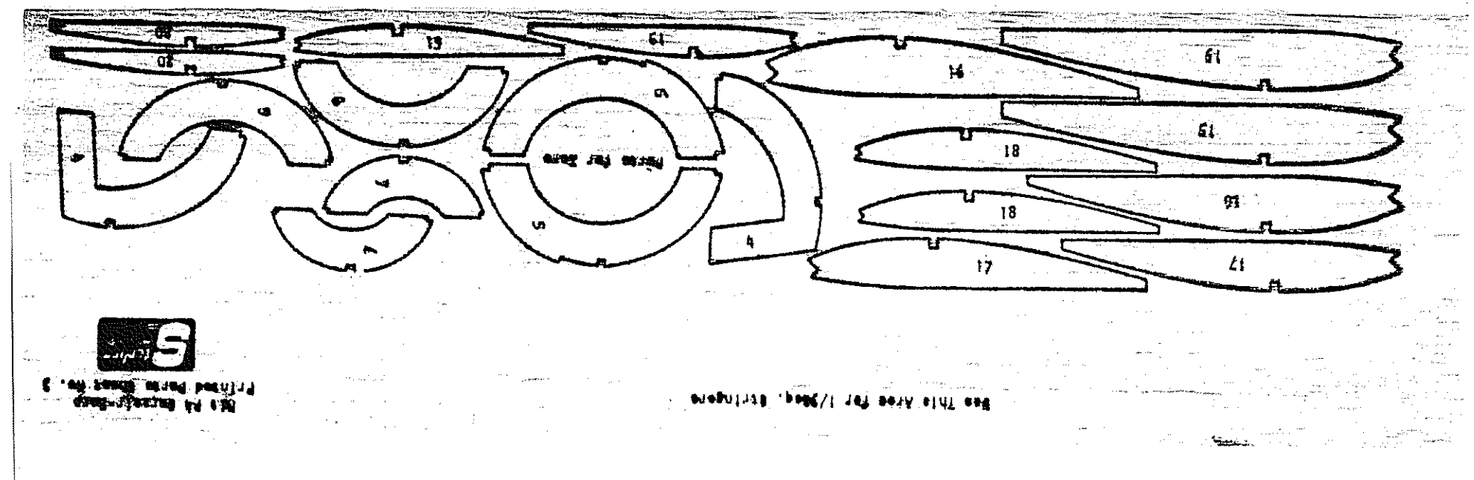


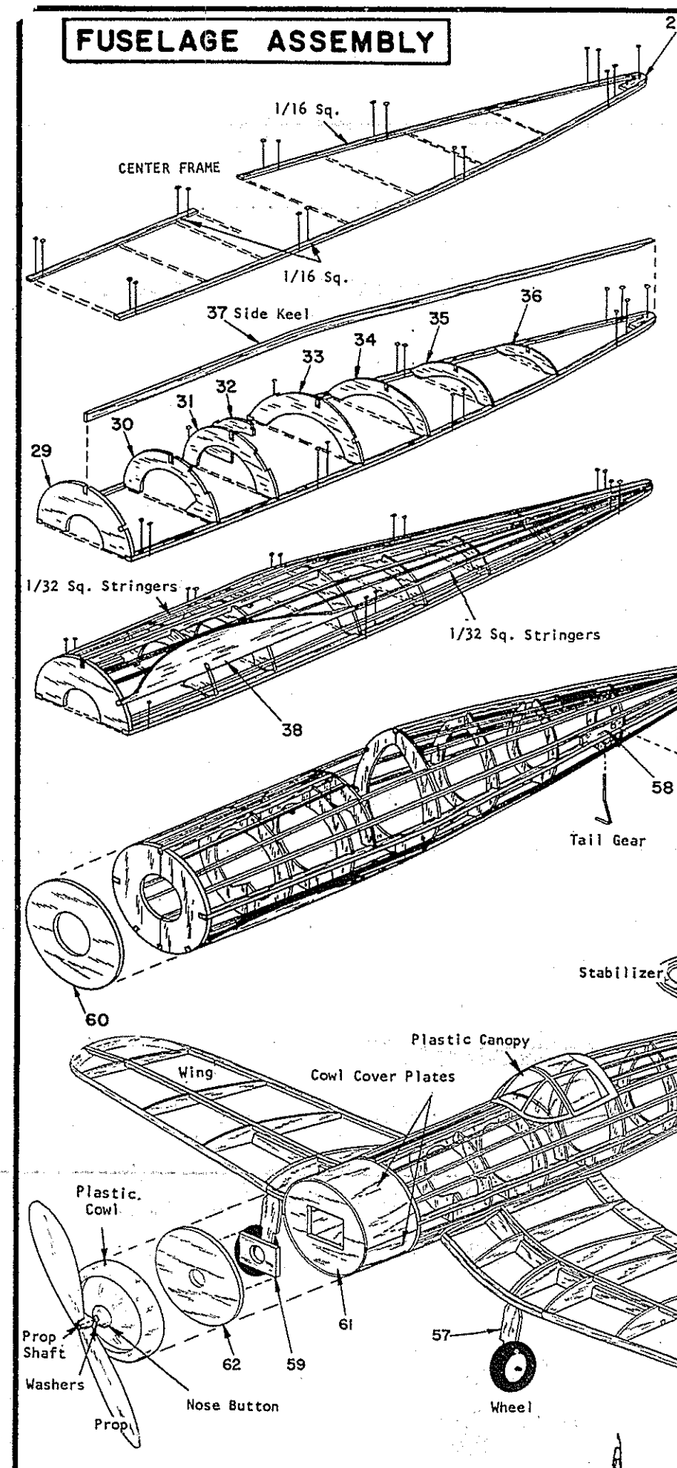








FUSELAGE ASSEMBLY



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 gears 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 #28. Allow center frame to dry thoroughly.

STEP 2

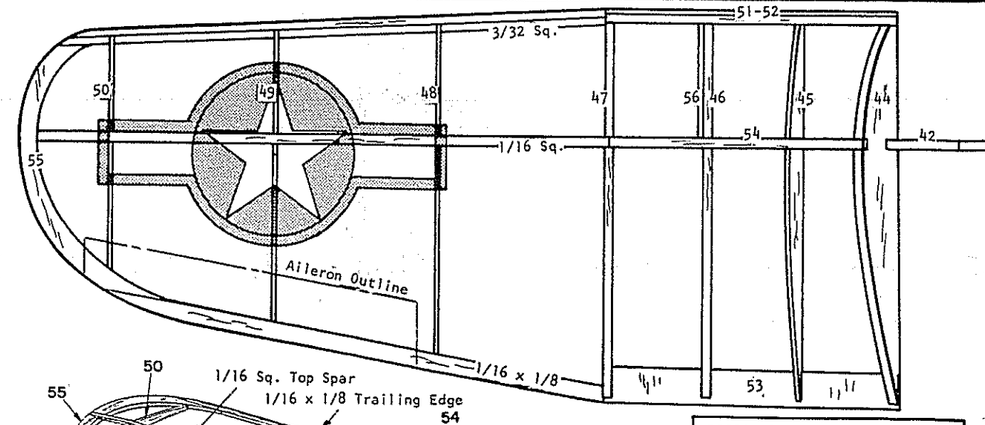
Step 2 and Step 3 should be done one after the other to prevent glue from setting permanently before parts are aligned. Cement all Bulkhead halves from #29 thru #36 vertically in place, then cement Side Keel #37 into long slots in Bulkheads as shown.

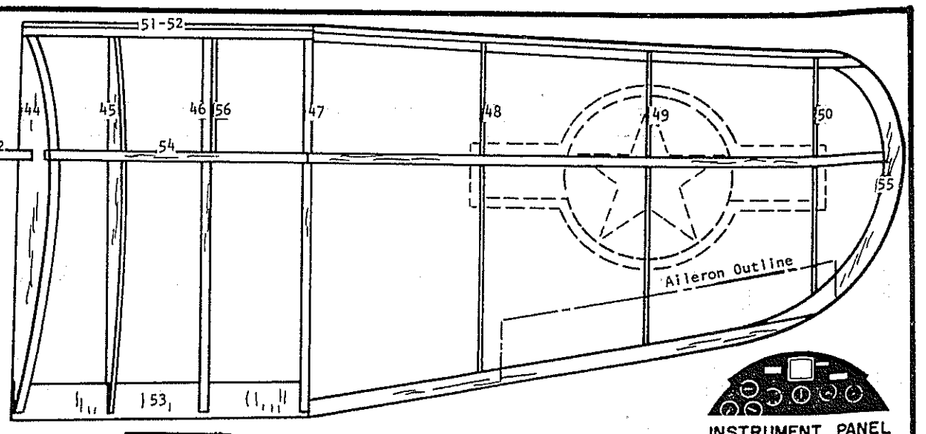
STEP 3

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 #38 with water to aid in bending then cement #38 into notches in Bulkheads from #29 to #33 as shown. Using the 1/32 printed parts sheet cut eight 1/32 sq. stringers 10 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. Allow framework to dry thoroughly.

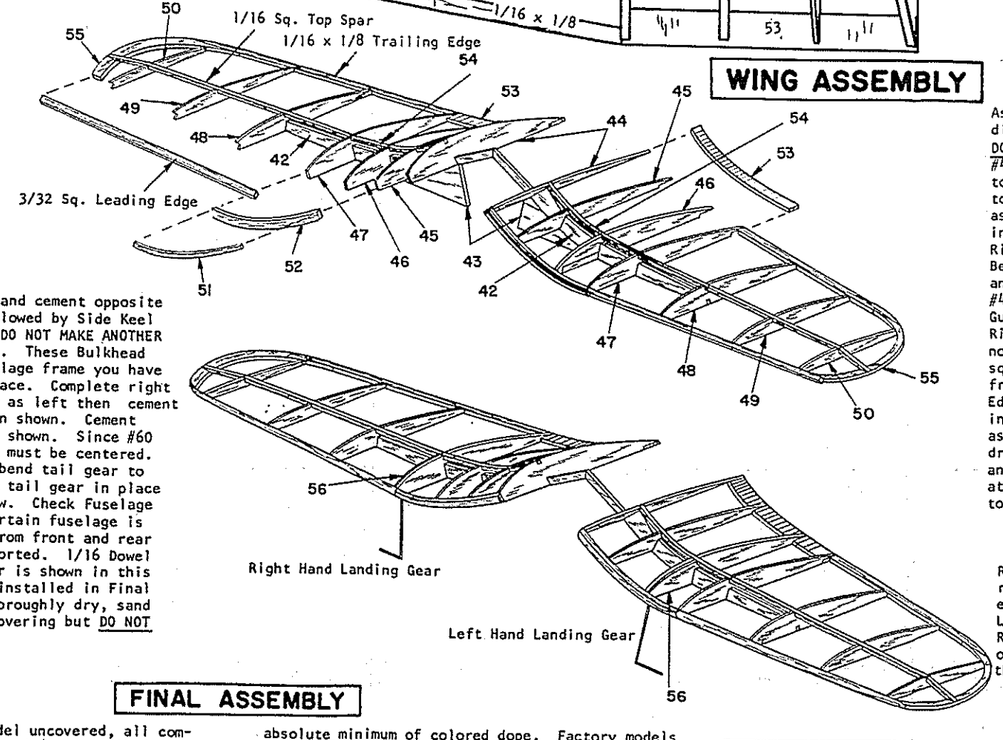
STEP 4

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 #58's to either side at location shown. Cement Bulkhead #60 to front of #29 as shown. Since #60 is slightly smaller than #29 it must be centered. 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 but DO NOT sand #29 down to #60.





WING ASSEMBLY



STEP 1

Assemble wing by pinning the building jigs #43 directly over plan vertically as shown. Pin, DO NOT CEMENT main spars #42 in place to top of #43's as shown. Cut 1/16 x 1/8 Trailing Edges to shape and pin to plan, then cement tips #55 to Trailing Edge. Make a left and right hand assembly of Gull Section leading edge by cementing #51 to #52 flush on bottom as shown. Cement Ribs #44 to #48 in place on main spars as shown. Be certain Ribs are seated properly into notches and aligned over full size drawing. Cement Ribs #49 and #50 in place vertically. Cement assembled Gull Section Leading Edges #51-#52 to front of Ribs as shown. Cement top spar #54 in place into notches in top of Ribs from #44 to #47. Cut 3/32 sq. Leading Edge Strip to length and cement to front of Ribs from #47 to tip. Moisten Trailing Edges #53 with water to aid bending then cement into notches in bottom of Ribs from #44 to #47 as shown. Hold in place with pins or tape until dry. 1/16 sq. top spars are now cut to length and cemented in place as shown. Spars are cracked at rib #50 to angle down to tip. Allow wing frame to dry thoroughly.

STEP 2

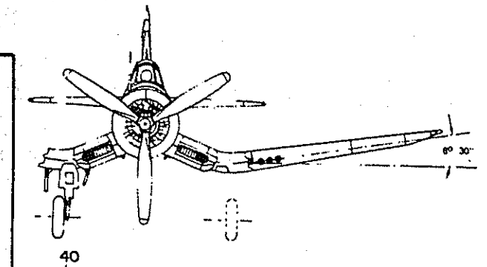
Remove Wing from flat surface and sand smooth rounding leading edges and tapering trailing edges to prepare for tissue covering. Cement the Left and Right hand landing gears to outside of Rib #46 and immediately cement Rib #56 to outside of #46 sandwiching gears between. Allow to dry thoroughly then cover with tissue as described.

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. COVER BOTTOM OF WING PANELS using 1 piece for each panel. Cover top of wings in 3 pieces for Gull Section and one for outer wing panels. If any problem of wrinkles is encountered on tips, use seperate pieces of tissue. COVER STAB AND RUDDER with single piece of tissue for each side. COVER FUSELAGE using as many pieces of tissue as required 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 wing 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.

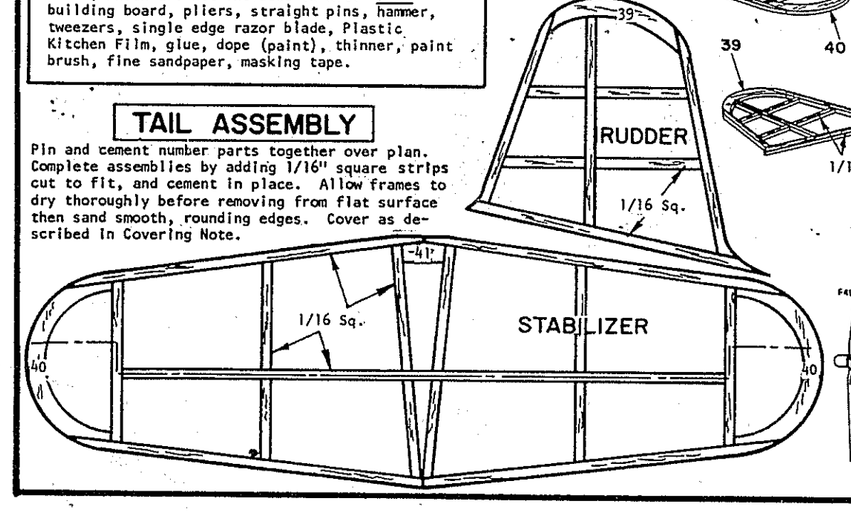
INTRODUCTORY NOTE

Peanut Scale is fun to build and fun to fly. Building, however, does require careful attention when cutting out the parts and assembly. Plans should be followed closely to insure a well built and good flying model. Model is built directly on plan. Pins are used to hold the parts in place while frame is drying. Wherever possible, pins should not be pushed through the frame but angled around it to keep the area in place. Pinholes may weaken the structure. We recommend that model be built with "white glue" such as Tite Bond or Elmer's Glue, used sparingly. Excess glue only adds weight, not strength. Model airplane cement is used VERY SPARINGLY on plastic parts. Light coats must be used so that plastic is not distorted. Follow covering instructions closely, so that light structure does not warp. Assemble the following material and tools, which are not included in kit: FLAT building board, pliers, straight pins, hammer, tweezers, single edge razor blade, Plastic Kitchen Film, glue, dope (paint), thinner, paint brush, fine sandpaper, masking tape.



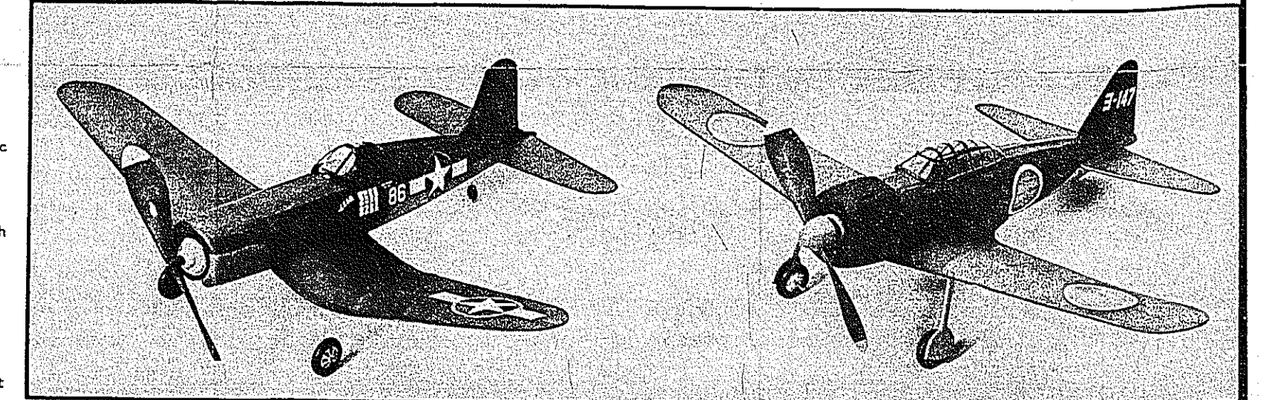
TAIL ASSEMBLY

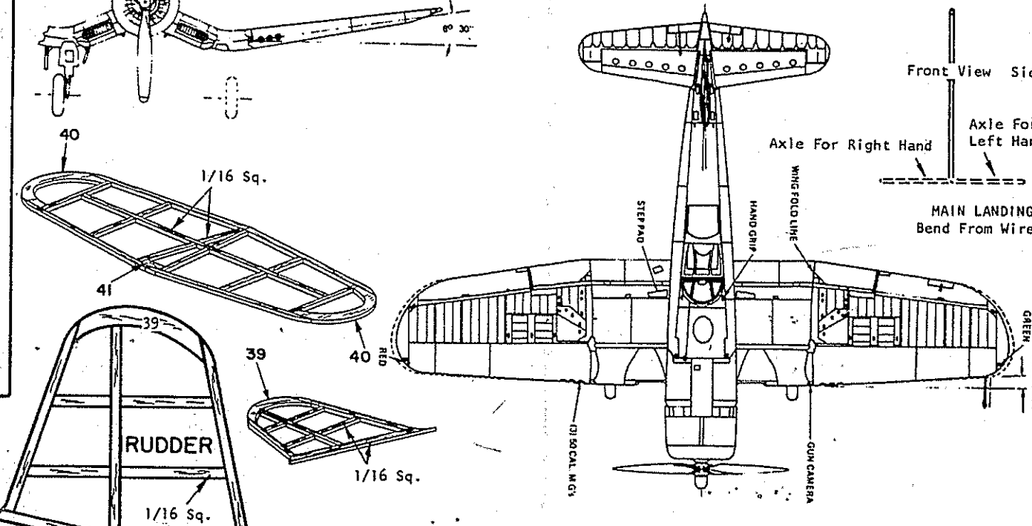
Pin and cement number parts together over plan. Complete assemblies by adding 1/16" square strips cut to fit, and cement in place. Allow frames to dry thoroughly before removing from flat surface then sand smooth, rounding edges. Cover as described in Covering Note.

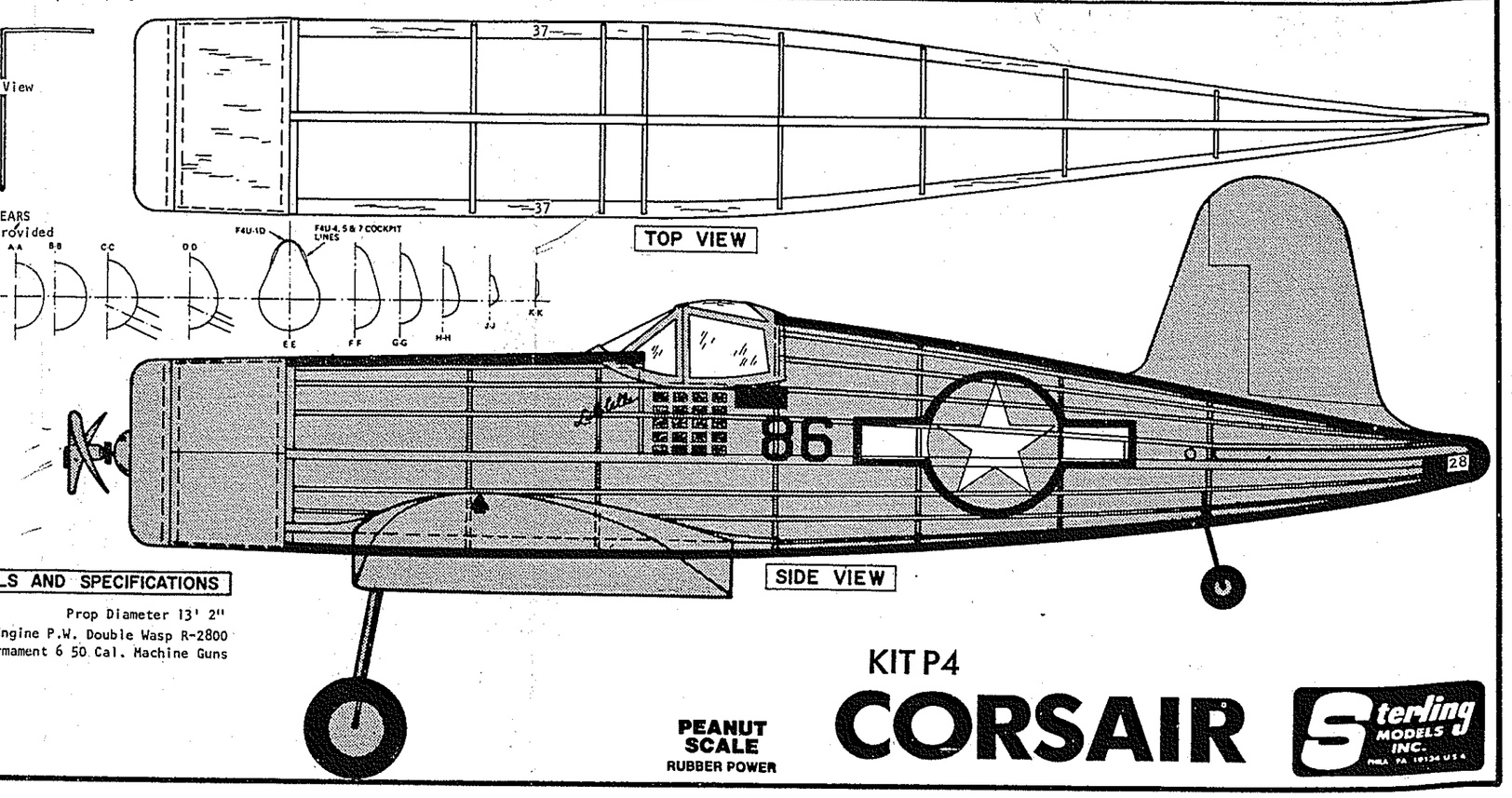


FINAL ASSEMBLY

Although sketch shows model uncovered, all components are actually covered (as described in Covering Note) before assembling model. Moisten the Cowl Cover Plates with water to aid bending and then cement them around #60 inserting and cementing #61 into front as shown. Hold in place with tape until dry. Clear out slab slot at rear of fuselage and slip stab in place. Check alignment of stab and cement in place. Cement rudder vertically in place on top of fuselage. Check again being certain stab is horizontal and rudder is vertical. Cement wing panels to side of fuselage by slipping spar into notch in #38 and hold tightly against #38 until dry checking alignment carefully. Cement #57's to front of wire landing gears. Place #59 into corresponding cut-out in #61, trimming if necessary for snug fit. Apply a coat of cement to front of #59 ONLY then put #62 in place, aligning with #61, pressing #60 against #59. When cement is dry remove assembled #59 & #62. Cut Cowl from plastic sheet. Place assembled #59 & #62 on flat surface, #59 down. Push rear of Cowl over assembly so that #62 is flush with rear of Cowl and #59 extends 1/16" behind. Cement in place with very light coats of wood model airplane cement to prevent distortion. Entire model is now painted with an absolute minimum of colored dope. Factory models were painted and decals are supplied for Major Gregory "Pappy" Boyington's "LuLuBelle". Lower surfaces are flat white, side surfaces (including outer wing panels from #47 to tip) are flat intermediate blue with upper surfaces flat sea blue. Slip wheels on axles and secure with a drop of cement. Paint tailwheel #63 black and slip onto tailgear as shown. Cut out instrument panel and cement into cockpit then cut out Canopy from plastic sheet, paint raised framework 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 #58 thru rubber loop and into hole in opposite #58, thus capturing rubber. Bend wire hook out of paper clip and pull rubber loop out of fuselage and engage in propeller shaft hook. 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 Corsair is now finished. Be sure it balances at arrow shown on side view and that you read flight instructions before flying. GOOD LUCK AND GOOD FLYING!







SCALE DETAILS AND SPECIFICATIONS

Wing Span 41' 0" Prop Diameter 13' 2"
Length 34' 6" Engine P.W. Double Wasp R-2800
Height 13' 0" Armament 6 50 Cal. Machine Guns

KIT P4

CORSAIR

PEANUT SCALE
RUBBER POWER

Sterling MODELS INC.