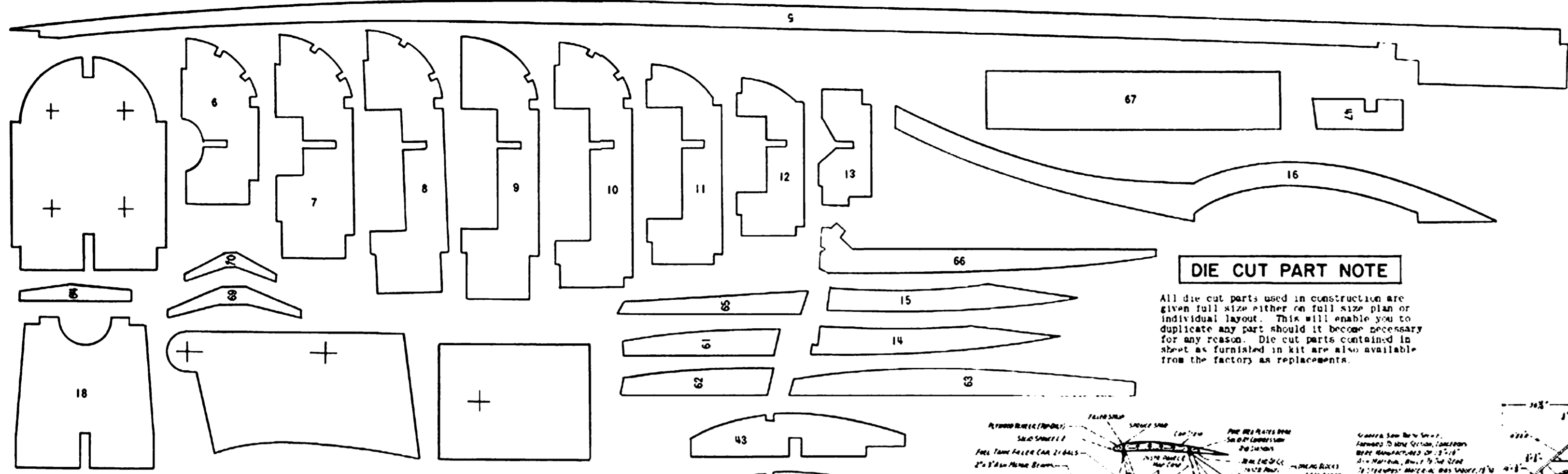


Sterling Jenny JN-4

Page 2 Kit E-1

Scanned and restored November 2010 pd!



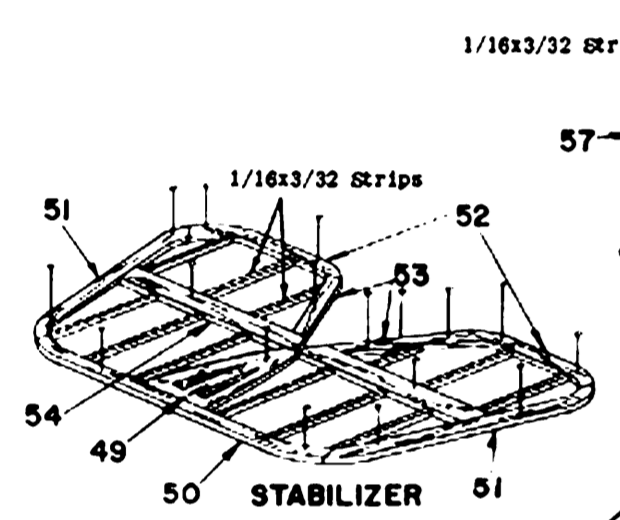
DIE CUT PART NOTE

All die cut parts used in construction are given full size either on full size plan or individual layout. This will enable you to duplicate any part should it become necessary for any reason. Die cut parts contained in sheets as furnished in kit are also available from the factory as replacements.

SILKSPAN TISSUE COVERING

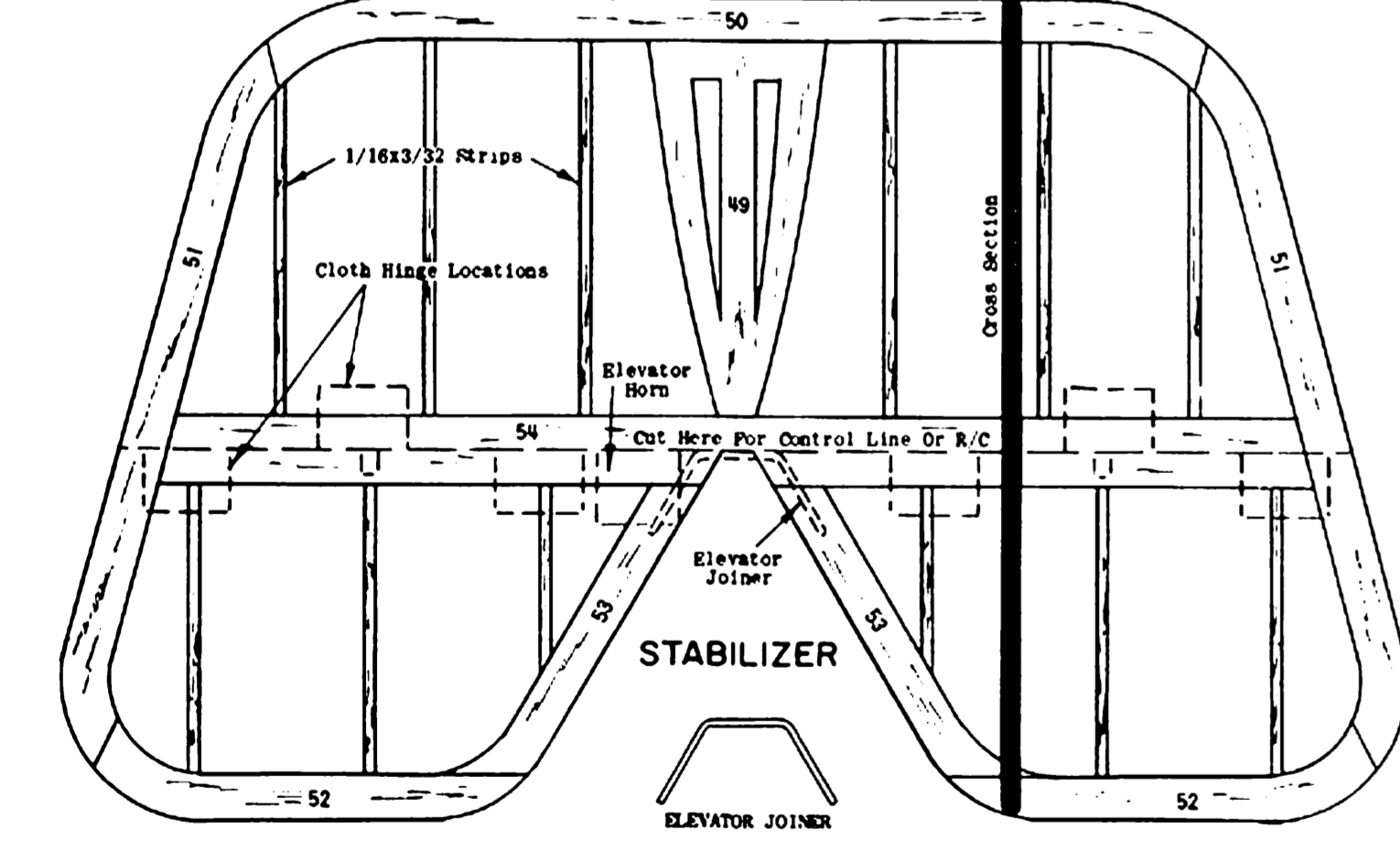
The finest grade wet strength Silkspan tissue provided in this kit permits covering of most compound curves without wrinkling when moistened with water before applying to frame. Tissue shrinks when dry, to a tight smooth surface. Follow directions for a smoothly covered, warp-free flying model. Use clear dope to attach tissue as follows: Apply a light coat to the outside edges of same to be covered, and allow to dry. Cut tissue to shape needed, plus 1/4" over size. Place tissue on flat surface and dampen with moistened cloth. Apply a second coat of clear dope on frame, then place moistened tissue on frame. Pull tissue GENTLY with fingers, working out all wrinkles. **WIND COVERING WINGS AND TAIL SURFACES. FIN FRAMEWORK TO PLANT SURFACE TO PREVENT WARPS AS TISSUE DRIES.** Cut out any wrinkled areas (bound by nearest framer) and re-cover. Model is being built as Non-Flying Scale, see detail note before covering is started. **COVER WING FIRST:** If model is being built for Control Line, be sure weight is added to Wing Tip (see Control Line Details). Cover both bottom and top with three pieces each.

each. Cover center section first, then outer panels. If any problem is encountered with wrinkles on the Tip, use a separate piece of tissue. **COVER STABILIZER AND RUDDER NEXT:** Cover both sides of each in one piece. **COVER FUSELAGE NEXT:** Cut cockpit covers from light cardboard provided, using patterns on Plan. Cement in place above on side view joining over Bulkhead #9. Cover sides from front to rear with one piece. Cover bottom from #6 to #8 in one piece, and from #9 to rear in one piece. Cover top from front to cockpit cover in one piece. Cover back from rear cockpit cover to #13 in one piece. Tissue should extend on to Cockpit Covers approximately 1/8". Apply four coats of thinned dope (3/4 dope, 1/4 thinner) to all tissue covering, building surfaces flat to prevent warpage while dope is drying. Company models required two additional coats of straight dope to fill pores before color dope was applied. Check Wings and Tail Surfaces for warps before assembly. Warps can be removed by holding over steam (from boiling kettle) and twisting gently in opposite direction. Check again when cool.



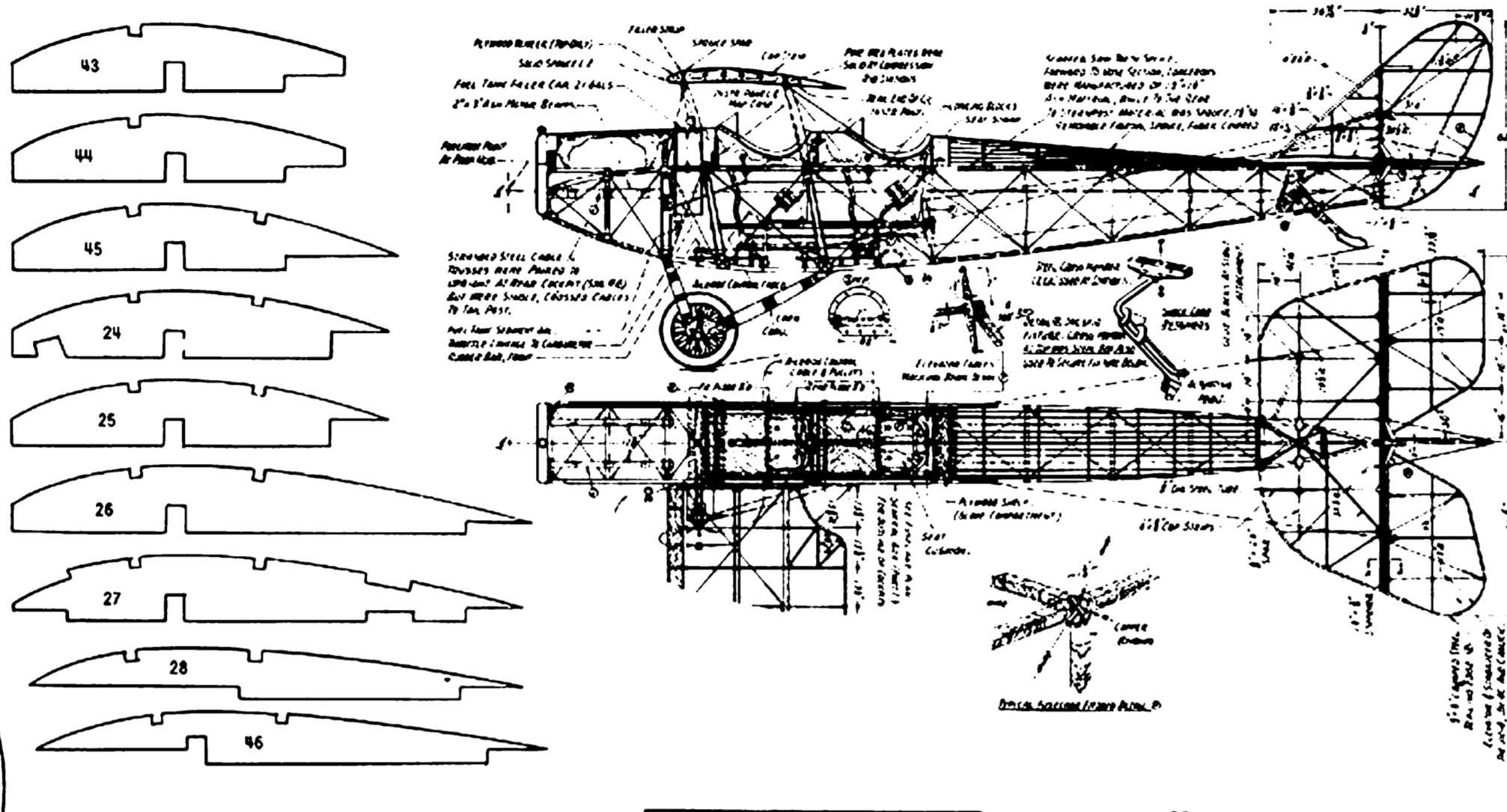
TAIL ASSEMBLY

Tail Surfaces are built directly over Plan. Pin all parts to Plan by the number as shown, connecting them together where they join. Cut 1/16x3/32 Strips to fit, and cement in place upright. Rudder is built in same manner. Allow units to dry thoroughly on flat surface, then sand smooth, rounding edges (except for front of #50 & #55 and bottom of #56), as shown in cross section. If model is being constructed for Control Line or Radio, see respective detail notes **RUDDER COVERING** with tissue as described in Silkspan Note.

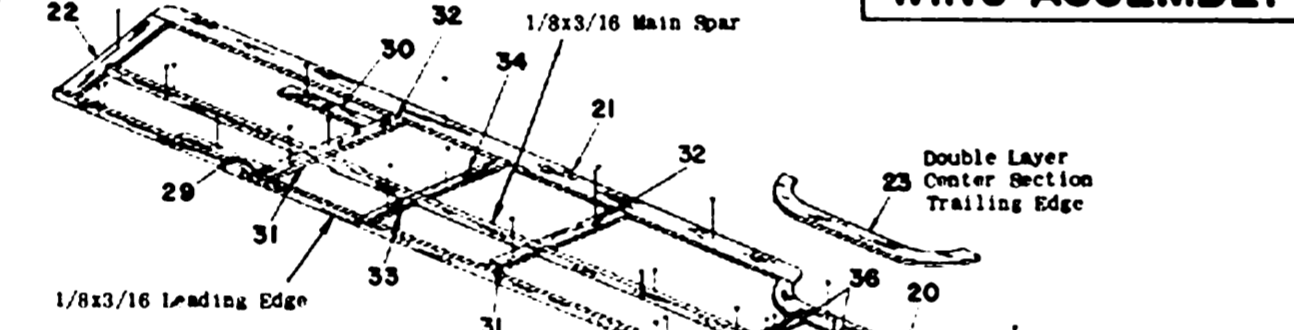


STABILIZER

ELEVATOR JOINER



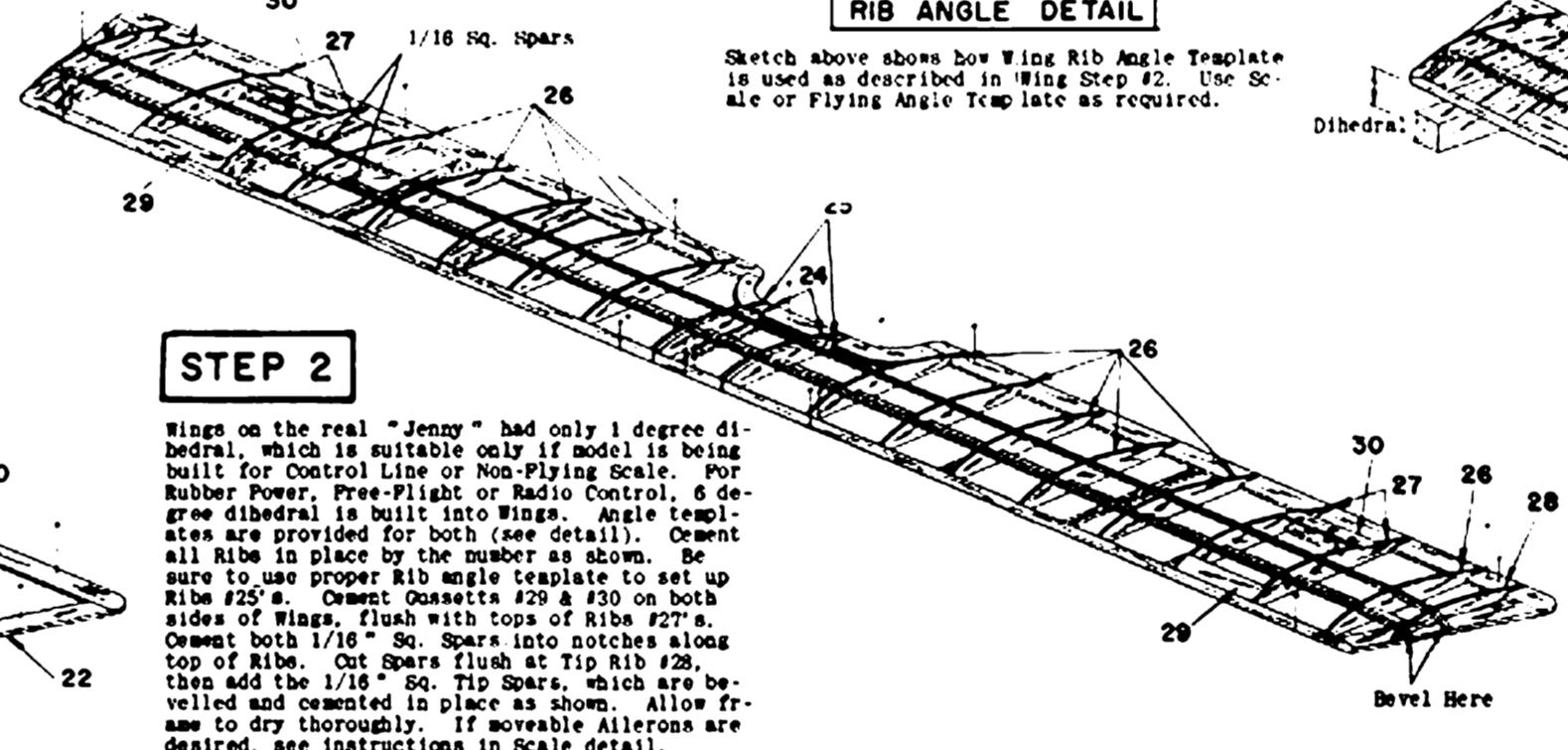
WING ASSEMBLY



TOP WING ASSEMBLY

STEP 1

Build Wings on flat surface directly on Plan. Using 1/8x3/16x15 Strips, cut Leading Edge and Main Spar (both of which are comprised of two outer sections and a center section), to proper lengths. Pin in place vertically. Do not cement sections to each other. Pin the remaining parts in place by the number as called for on sketch and full size Plan, cementing parts securely together where they join. Center section Trailing Edge consists of #20 & #23, cemented together to form a double layer.



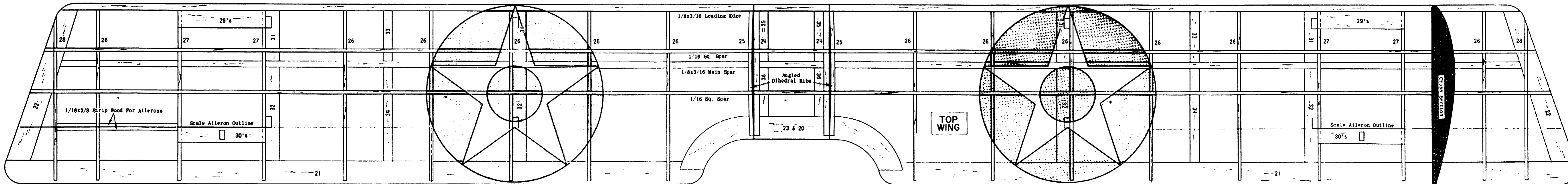
BOTTOM WING ASSEMBLY

STEP 2

Wings on the real "Jenny" had only 1 degree dihedral, which is suitable only if model is being built for Control Line or Non-Flying Scale. For Rubber Power, Free Flight or Radio Control, 6 degree dihedral is built into Wings. Angle templates are provided for both (see details). Cement all ribs in place by the number as shown. Be sure to use proper Rib angle template to set up Rib #25. Cement Sprocket #26 on both sides of Wings, flush with tops of Ribs #27 & #28. Cement both 1/16" Sq. Spars into notches along top of ribs. Cut Spars flush at Tip Rib #28, then add the 1/16" Sq. Tip Spars, which are bevelled and cemented in place as shown. Allow frame to dry thoroughly. If movable Ailerons are desired, see instructions in Scale detail.

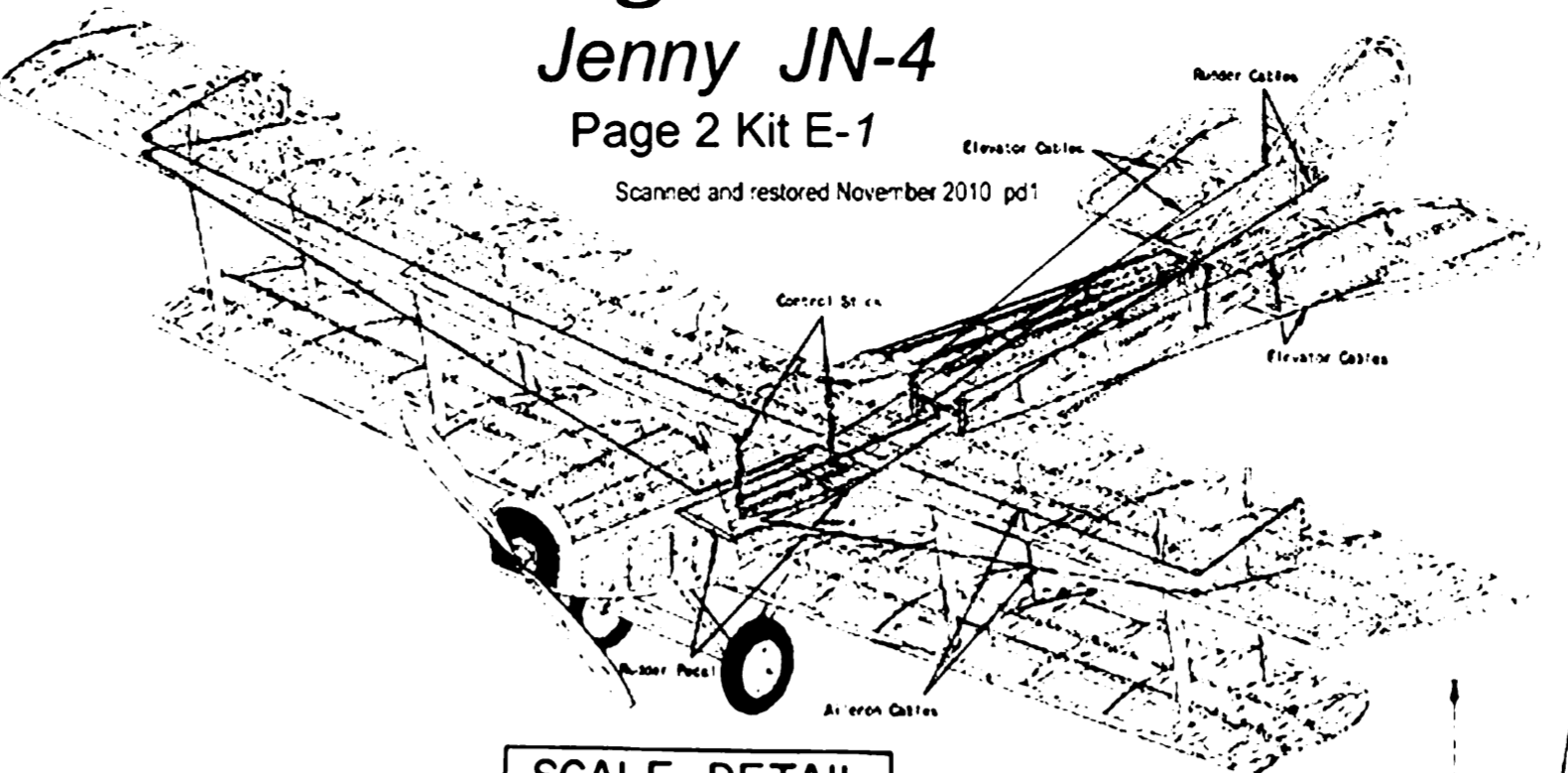
STEP 3

Out the center section Trailing Edge through between Ribs #22 & #23 on both sides, so that center section and Wing panels are not separated. Rubber Power, Free Flight or Radio Control, 6 degree dihedral is built into Wings. Angle templates are provided for both (see details). Cement all ribs in place by the number as shown. Be sure to use proper Rib angle template to set up Rib #25. Cement Sprocket #26 on both sides of Wings, flush with tops of Ribs #27 & #28. Cement both 1/16" Sq. Spars into notches along top of ribs. Cut Spars flush at Tip Rib #28, then add the 1/16" Sq. Tip Spars, which are bevelled and cemented in place as shown. Allow frame to dry thoroughly. If movable Ailerons are desired, see instructions in Scale detail.



TOP WING

BOTTOM WING



SCALE DETAIL

Multiple view drawings and construction sketches of the actual Curtiss JN-4 Jenny reveal a wealth of information, which can be built into the model. If desired by the modeler, there are definite limitations in details if model is being built to fly, otherwise without the factor of weight involvement, etc., modeler can construct his model as detailed as he wishes. Basically, the scale outline of the full size craft has been followed accurately. Model has been built with half the scale number of Ribs. If modeler desires, add a Rib between each of those shown in model construction. Ribs on model are not under doped as Scale requires. In order to modify to Scale shape, Spar notches in Ribs are made deeper so that Main Spar can move up and under center to cut into Ribs. Fuselage construction has also been altered to make the model as simple to construct. Scale outline of Fuselage, Ribs and Tail are true and modeler can make whatever changes desired in the structure before covering. Leading edges of both Wings, which were covered with Plywood in the full size craft, may be duplicated with light cardboard provided in the kit. Likewise the Forward Control back to the Cockpits. Plastic parts and details are authentic and correct. Special overlay sketch shows installation of movable controls from the Cockpit. Parts are mostly made from metric ball and nylon thread. Imprecision at this point by the modeler is a necessity. Reinforce area where the lines exit through tissue covering with cardboard discs as shown. Ailerons are located on Top Wing only. Additional structure must be installed so that Ailerons can be movable. Kit contains 1/16x3/32 Strip Ribs, which is cut to length and cemented between Ribs on either side of scale Aileron outline (as shown on left side only of full size Plan) so that when Aileron is cut out of the Wing structure, there is a Leading Edge for Aileron and a Trailing Edge for Wing at that point. When dry, Ailerons are cut from Wing, then re-mounted with Hinges. Aileron Horns and Rigging Supports are die cut. They are shown in place in Final Assembly sketch. Model is rigged with thin black thread. Rigging lines are shown on drawings of full size craft, as well as photograph of model on box wrap. A loop made in thin wire and installed at the proper location will guide Aileron Control lines from Wing into Powerline. Be sure when installing Controls, that when stick and Rudder pedals are in neutral position, the Control Surfaces are likewise. Included on Plan are full size drawings for scale Propeller if modeler wishes to carve one. Rib Struts, Landing Gear Struts, Tail Skid, Control Horns and Rigging Supports are in neutral position. Control Surfaces are in neutral position. Propeller is painted natural wood color with copper tips. Your comments and observations are invited. Write to Sterling Models, Inc., Bellfield Ave. & Winter St., Philadelphia, Pa. 19144, U.S.A.

Part No.	Material	Quantity
1	1/8x3/32 Strips	100
2	1/16 Sq. Spars	50
3	1/16x3/32 Strips	100
4	1/16x3/32 Strips	100
5	1/16x3/32 Strips	100
6	1/16x3/32 Strips	100
7	1/16x3/32 Strips	100
8	1/16x3/32 Strips	100
9	1/16x3/32 Strips	100
10	1/16x3/32 Strips	100
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