

1/16 sheet balsa, flush with outside of frame; betor horn, with bell crank in neutral position tween the 2 stringers above #12. Cut 1/8 slot for conas shown. Clip off excess and insert into horn. trol rod as shown. Cut two 22" lengths of lead-Solder washer on end to prevent rod from coming out lines (not provided in kit) and fasten them off. Controls are now in neutral position and to bell crank. Mount bell crank on plywood must work freely and easily. Cut rudder apart platform as shown in Detail Sketch. Lead-out on dotted lines, cement fin in place. Cement lines come through fuselage at holes drilled rudder to fin and rear of fuselage, angled 1/2" for them as shown. Cover fuselage with tissue to outside of circle flown, as shown. Assemble as described in Detail Note. Cut stabilizer wing to fuselage as described in Final assembly Detail. Cement Wing Guide Tubes securely to wing through wide main spars, as indicated by dotted ines on full size drawings. Round edges and at location shown on sketch and full size drawing. Reinforce fuselage holes with washers or install control horn and joiner at location shown on drawing, then join together with cloth eyelets. Thread lines through wing guides and hinges shown. Cement stabilizer to fuselage as tie loops in end of lines at least 2" past wing

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, warpfree flying model. Use clear dope to attach Tissue as follows: Apply a light coat to the outside edges of area to be covered, and allow it 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 mo-istened Tissue on frame. Pul! Tissue Gently with fingers, working out all wrinkles. WHEN COVERING WINGS AND TAIL SURFACES, PIN FRAMEWORK TO FLAT SURFACE TO PREVENT WARPS AS TISSUE DRIES. Cut out any wrinkled areas (bound by nearest framework) and re-cover. If 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 Detail).

top as shown. Cement the three 1/16 sq. Spars into notches along top of Ribs as shown. Allow wing to dry thoroughly, over night is recommended.

Remove wing panels from flat surface and cement together, blocking one side up 3-1/4" as shown for proper Dihedral angle. Allow to dry tho-

roughly. Landing gear fits into slot made when 42's are cemented against 40's under 41's. Use cement generously then cover 42, Landing Gear & #41 with #43, which is flush with #40. Hor-

izontal spur of Landing Gear is cemented and

Bound with thread to Main Spar as shown in full

size wing drawing, Cement 1/16 sq. bottom spar across notches in Ribs. If moveable Ailerons are desired, see instructions in scale detail.

STEP 3

described in Final Assembly Note. Tape eleva-

neither up nor down). Bend 1/4" of one end of

bell crank and insert rod from bottom with spur

vertical, then secure bell crank. Control rod

should be in line with elevator horn; if not, bend accordingly so that rod slips through slot

tors in neutral position (in line with stabilizer,

1/16 wire for control rod at right angle. Loosen

Cement #54 & #55 to bottom center of wing as shown in bottom Fuselage detail note. Cover Top & bottom with 1 piece each allowing #54 & #55 to protrude. If any problem is encountered with wrinkles on the Tips, USE a separate piece of Tissue. COVER STABILIZER AND RUDDER NEXT: Cover both sides of each in one piece. COVER FUSELAGE NEXT: Cover sides from #6 to rear with 1 piece, from bottom of cockpit to #20 Cover top and bottom of front cowl with 2 piece joining over center, and cover top and bottom of rear of Fuselage in same manner. Apply 4 coats of thinned dope (3/4 dope, 1/4 thinner) to all Tissue covering, holding surfaces flat to prevent warpage while dope is drying. Comany models required two additional coats of straight dope to fill pores before color dope was applied. Check Wing 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

tip. Lines must be of equal length when elevator

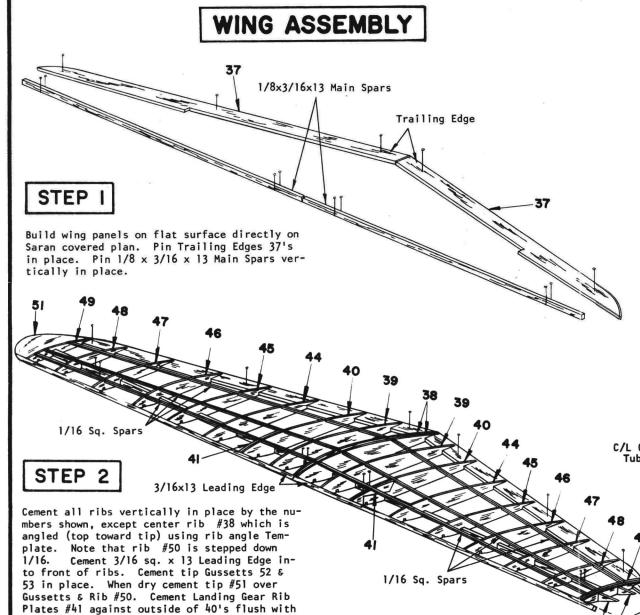
is in neutral position. Control system must op-

erate freely and easily. CAUTION: Model must

balance (or slightly nose down) at point where

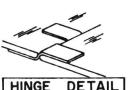
If necessary, add weight. Use regular 1/2A control lines when flying your P-40 Warhawk GOOD LUCK AND GOOD FLYING !

front control line comes out of the fuselage.



CONTROL ASSEMBLY

Drill 1/8" hole thru Plywood Platform. In sert Bolt thru Bellcrank and run Nut up Bolt till Bellcrank has just enough room to swing freely closed face of Nut down. Insert thru Platform and install bottom Nut closed face up. Tighten Nut towards each other leaving Bellcrank to pivot freely. Secure Nuts with solder or glue.



Use cloth tape for Hinges. Cement only on top and bottom, alternating Hinges as shown above. Keep cement out of Hinged area between sections.

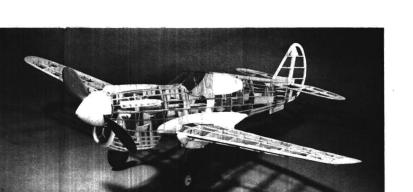


Photo Shows simple yet sturdy construction

is shown on full size Rudder drawings. Since

R/C equipment is varied, no specific instal-

lation directions can be given. Install

manufacturer's instructions. All instal-

lations for securing R/C in Fuselage should

balance as shown on side view. If necessary;

add weight, but DO NOT ATTEMPT TO FLY UNTIL BALANCE HAS BEEN ACHIEVED. Check Wing and Tail for warps. If any have developed, re-

move with steam method as described in Cov-

ering Instructions. Wait for calm weather

structions. Start Engine and THROTTLE DOWN To

intain or slightly lose altitude. If model

turns to either side, Rudder or Engine may be

Trim flush with

RIB ANGLE DETAIL

is used as described in Wing Assembly

be made before covering Fuselage. When mo-

del has been completely finished, it must

the R/C equipment according to the R/C

SCALE DETAIL

Multiple view drawings of the actual P-40 Warhawk reveal a real wealth of information which can be built into the model, if desired by the modeler. There are definite limitations on 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. The Scale outline of the Fuselage, as well as Wings and Tail are true and modeler can make whatever changes desired in the structure before covering Plastic Parts and Decals are authentic and correct. Special overlay sketch shows installation of moveable controls from the Cockpit. Parts are mostly made from scrap Balsa and Nylon thread. Improvisation at this point by the modeler is a necessity. Reinforce area where the lines exit through Tissue covering with cardboard discs as shown. Additional structure must be installed so that Ailerons can be moveable. Kit contains

 $1/16 \times 3/8$ Strip Wood, which is cut to length and cemented between Ribs on either side of scale Aileron outlines (as shown on left side only of full size Plan) so that when Aileron is cut off 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. 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 top. A loop made in thin Wire and installed at the proper location will guide Aileron Control Lines from Wing into Fuselage. Be sure when installing Controls, that when stick and Rudder pedals are in neutral position, the Control surfaces are likewise. Propeller is painted Black color with White tips. Your comments & photographs will be welcome. Write to Sterling Models, Inc., Belfield Ave. & Wister St. Philadelphia, Pa. 19144

