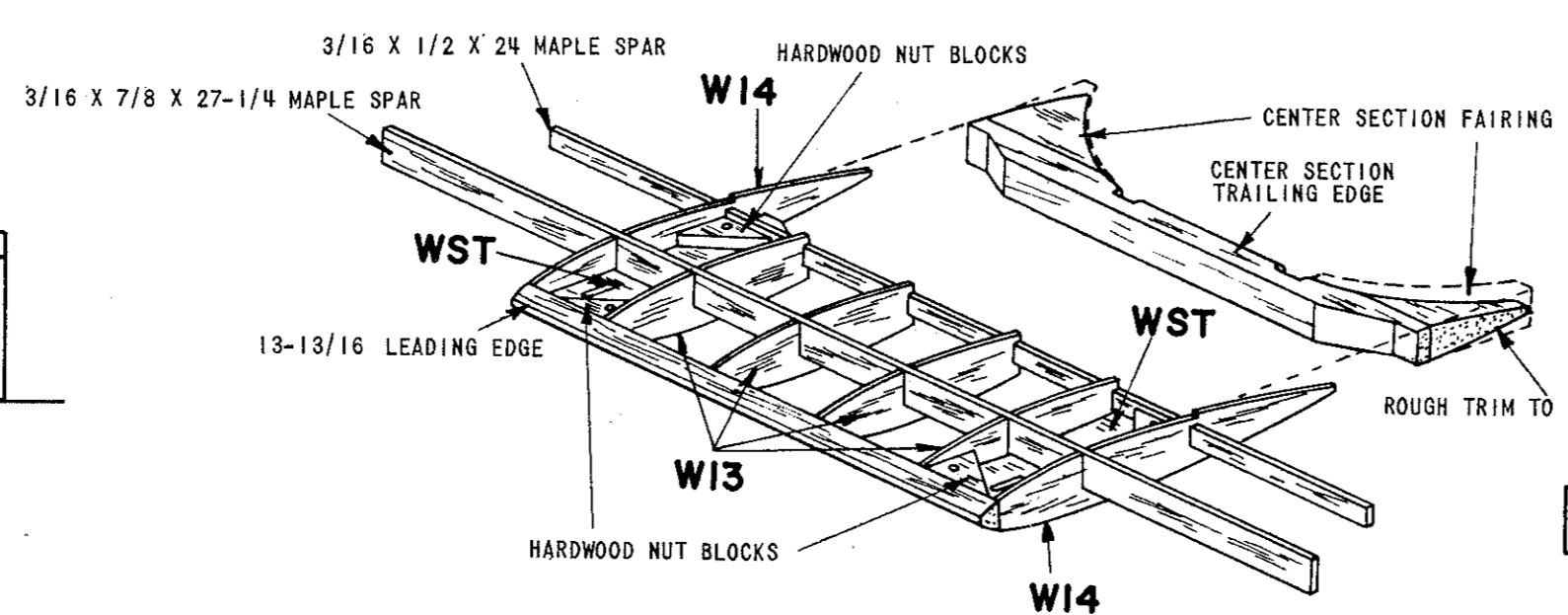


**JIG BLOCK ASSEMBLY**

Build jig drawings above show how ribs, when assembled, rest on 9/16 inch jigs under front spar, and 9/16 inch jigs under rear spar, as shown in Rib Step 1. Make sure jigs are placed upon trailing edge to support it at proper height and angle. Jigs are stably fast to support leading edge when assembled on flat surface.

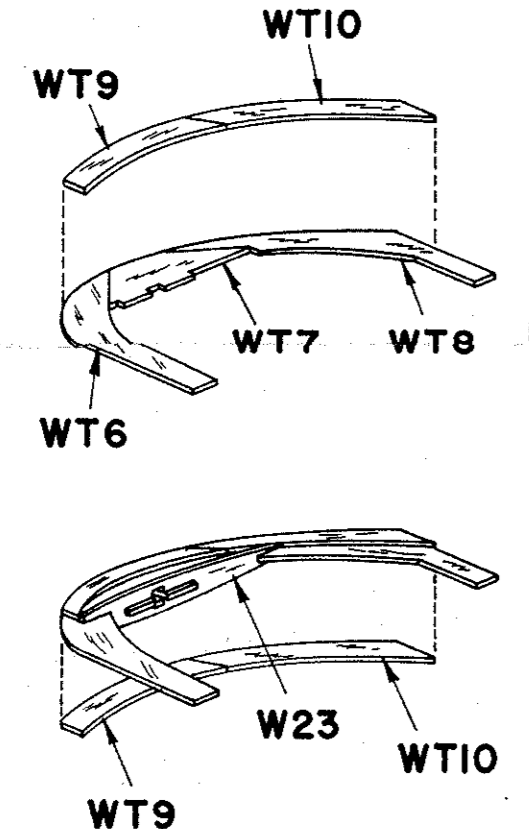


**TOP WING ASSEMBLY**

**STEP 1 CENTER SECTION**

Prepare the following sub-assemblies before starting wing construction: Make top and bottom wing rib assemblies as shown and described in detail notes; be sure to make one each left and right. Using flat size layout drawing procedure, cut two wing center section fairings. Center section trailing edge is made up of 1 x 3/4 x 3/8 inch block using flat size layout drawing procedure. Shape a center section fairing to each side of the center section trailing edge as shown, and allow to dry thoroughly. Cut 1/2 piece long from 3/8 x 3/8 inch wood for rib blocks. Shape as shown, directly over ribs, followed by W9 and W10 which are attached to top. Allow to dry, then remove from flat surface and cement an additional W9 and W10 to the bottom, forming a three-layer assembly. Tip rib W23 is now slipped in place, fitting on both against W9. Be sure to make a left and a right tip.

**TOP WING TIP ASSEMBLY**



**CENTER SECTION FAIRINGS**

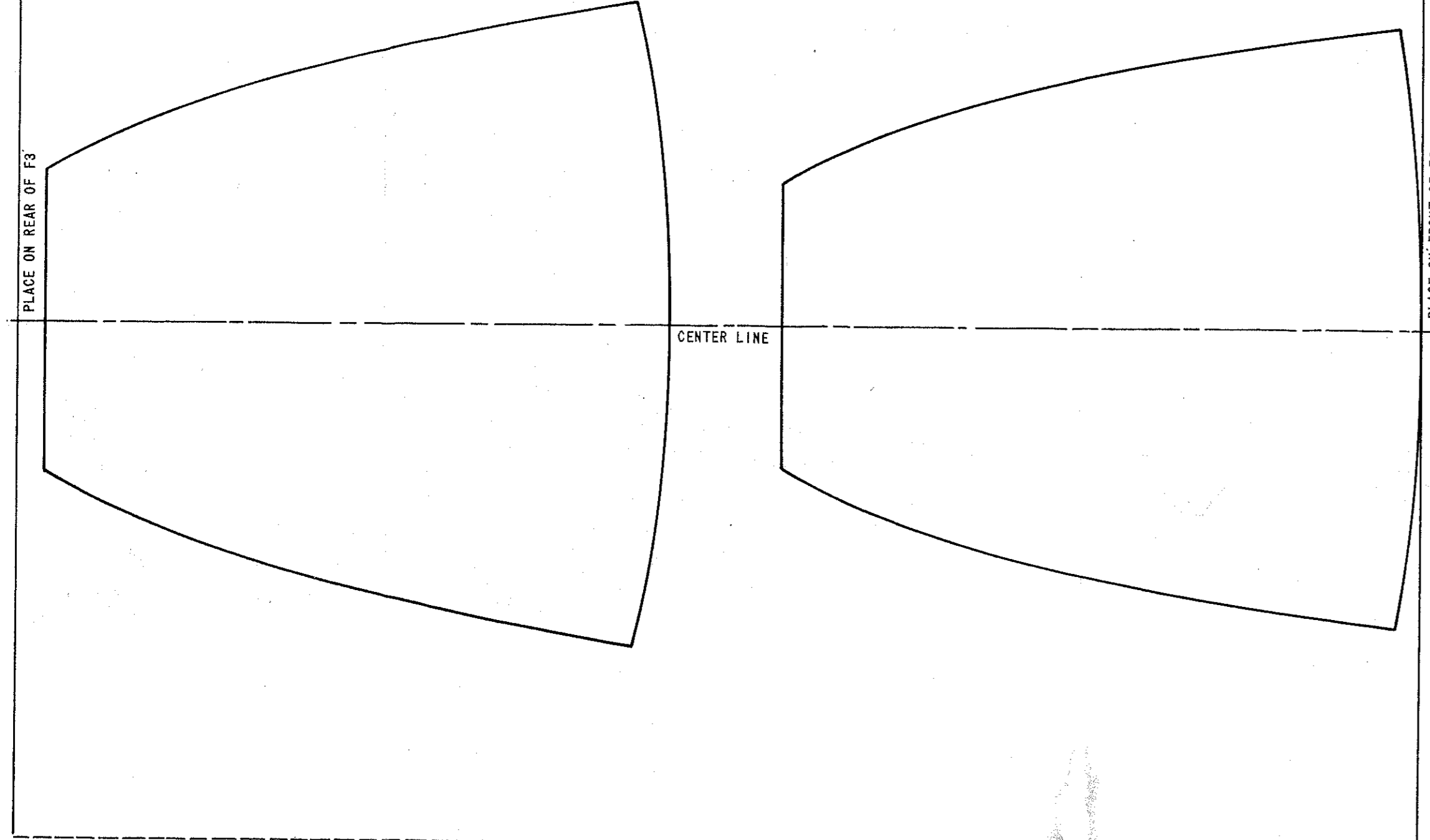
MAKE FROM 1 X 3 X 3-1/2 BLOCK

**CENTER SECTION TRAILING EDGE**

MAKE FROM 1 X 1-1/4 X 13-5/8 BLOCK

**COCKPIT SKIN PATTERN**

PLACE ON FUSELAGE

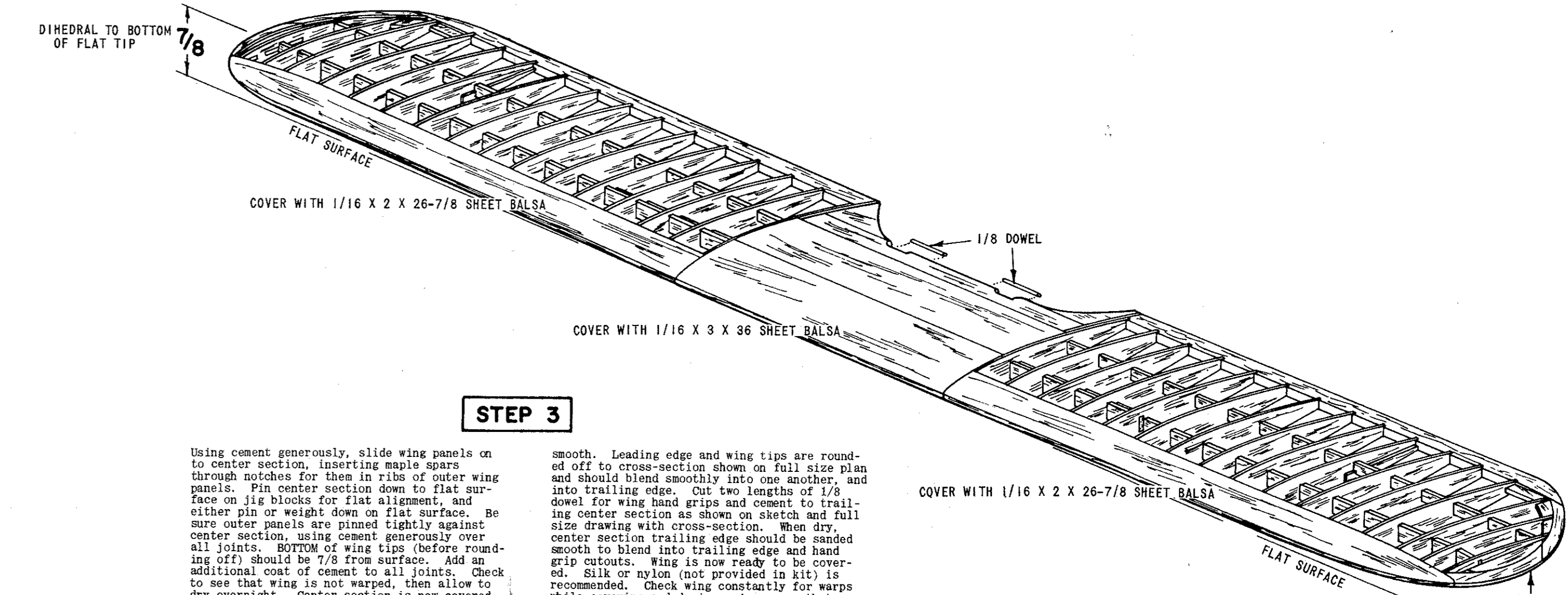
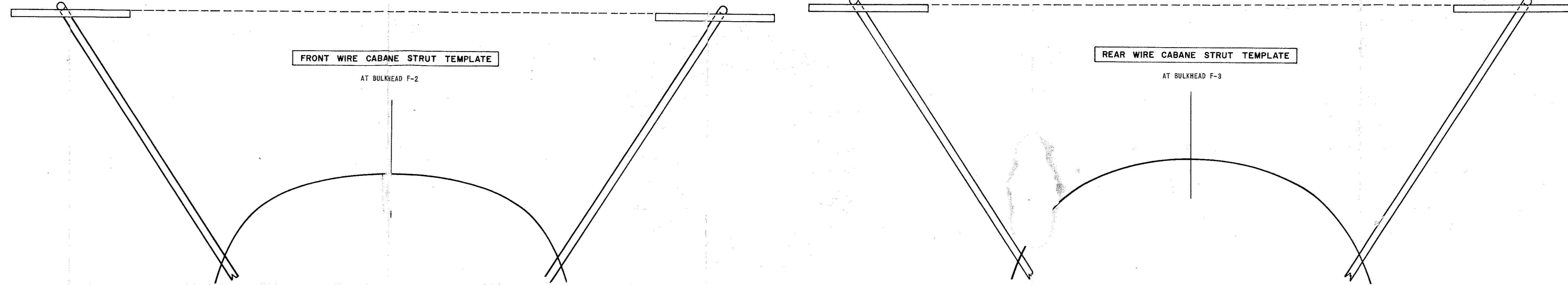


**FRONT WIRE CABANE STRUT TEMPLATE**

AT BULKHEAD F-2

**REAR WIRE CABANE STRUT TEMPLATE**

AT BULKHEAD F-3



**STEP 3**

Using cement generously, slide wing panels on to center section, inserting wire spars through notches for them in ribs of outer wing panels. For center section glue to flat surface on jig blocks for rib alignment, and either pin or weight down on flat surface. Be sure outer panels are firmly seated against center section, using cement generously over all joints. Bottom of wing tips (before rounding off) should be 7/8 from surface. Add an additional coat of cement to all joints. Check to see that ribs do not separate, then allow to dry overnight. Center section is now covered using 1/16 x 2 x 26-7/8 sheet balsa. Note that one sheet goes over the leading edge as shown in side view. Cover the leading edge of both panels with 1/2 x 2 x 26-7/8 sheet balsa. Bottom of wing is covered in same manner, when sheets are dry. Remove pins and then sand entire wing smooth. Leading edge and wing tips are rounded off to cross-section shown on full size plan and should blend smoothly into one another, and into trailing edge. Cut the length of 1/8 inch wire band grips and cement to trailing edge center section as shown on sketch. Full center section trailing edge should be rounded smooth to blend into trailing edge and hand-grip notches. Wing is now ready to be covered. Balsa or ply not provided is left in recommended. Check wing constantly for warps while covering and drying. Any warps that occur may be removed by an additional coat of glue and setting wing in opposite direction. Use wire band as still set, and building until dry. One final assembly and box lid for panel shown.

**STEP 2 WING PANELS**

Build wing panels by marking off rib locations on 3/16 x 3/4 x 24 front and 1/4 x 1/2 x 24 rear spars as shown on sketch and full size drawing. Cut ribs from 1/8 inch balsa in place in the master as marked on sketch and full size drawing. Cut W19, W17, W16, and W15 ribs in place in the master as marked on sketch and full size drawing. W19 blocks are placed under rear spar while building wing. W17, W16, and W15 are now cemented to dry overnight, then remove from flat surface. Cement supports W20A and W20B are cemented to ribs shown, facing each other. This one of the ribs under of rib leading edge. Cut W19 and W17, which are now cemented in place flush with bottom of rib.

support and locate it at proper height and angle as shown on jig drawing. Hold in place with wire. Cement leading edge to front of ribs building with pins, then allow edge to dry overnight. W20B is placed on top of W20, cementing securely. All rib joints are now cemented liberally. After wing panels are cemented to ribs shown, facing each other, cement supports W20A and W20B are cemented to ribs shown, facing each other. This one of the ribs under of rib leading edge. Cut W19 and W17, which are now cemented in place flush with bottom of rib.

