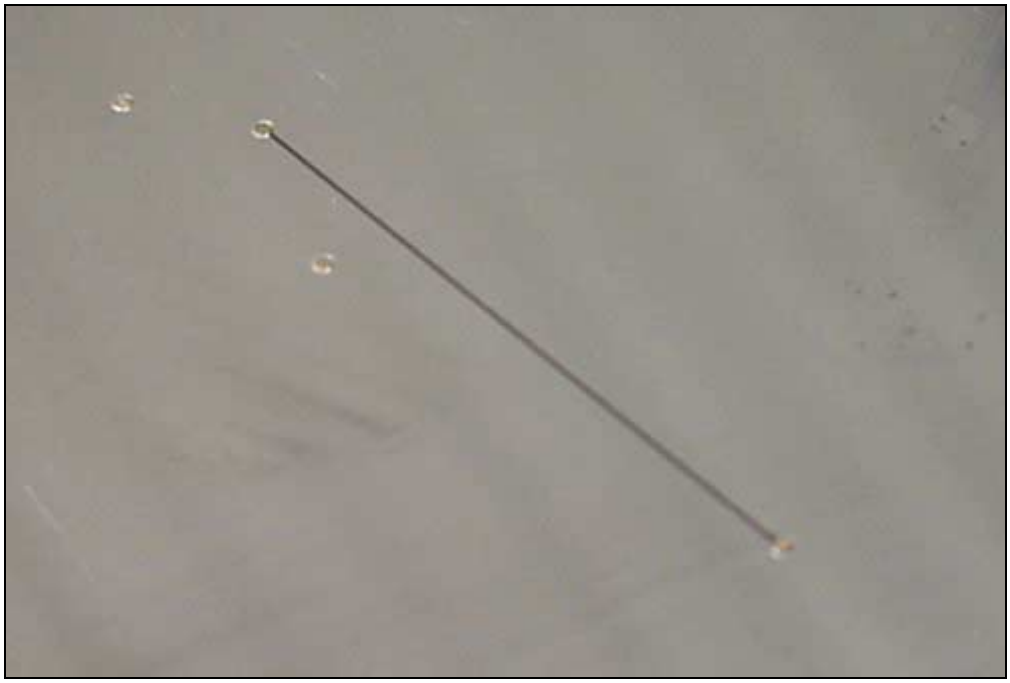
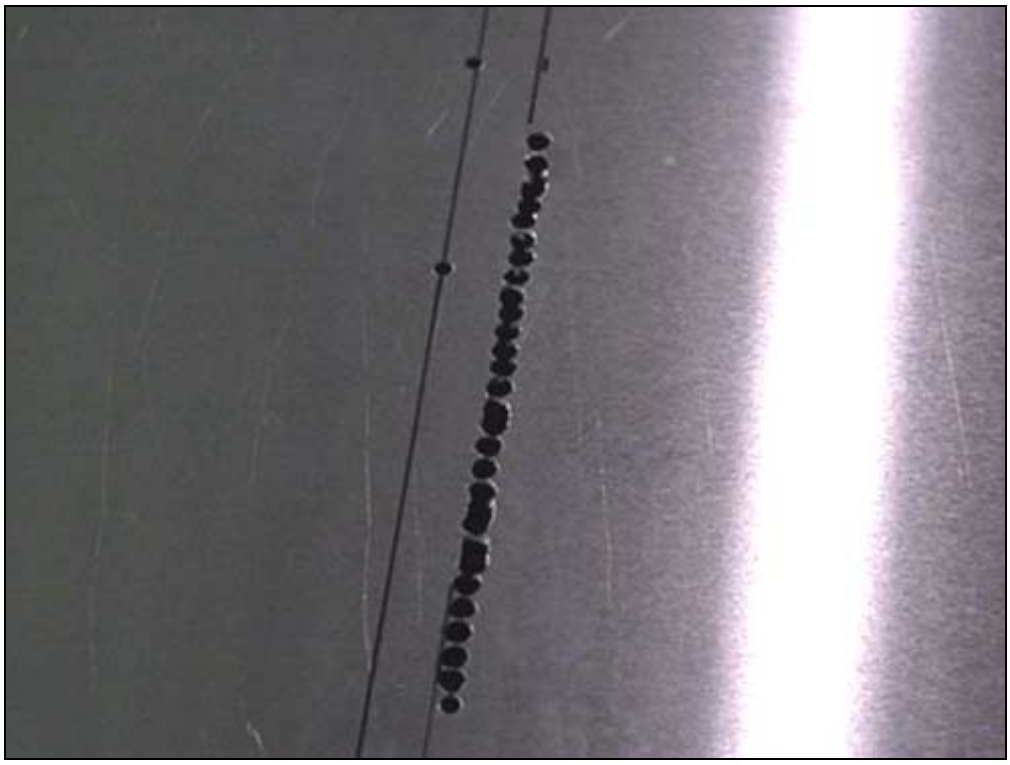


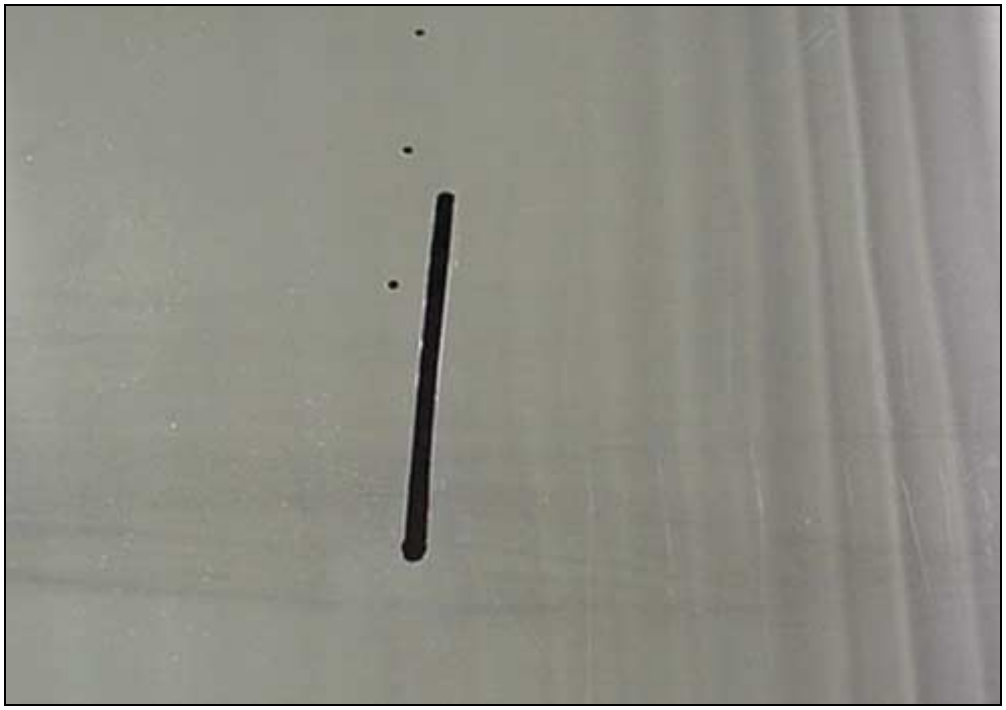
7V7-1 Nose Skin

The slots for 7V4-5 have two predrilled holes. Locate them and connect them with a line. These will be at rib #1,3,4,6.



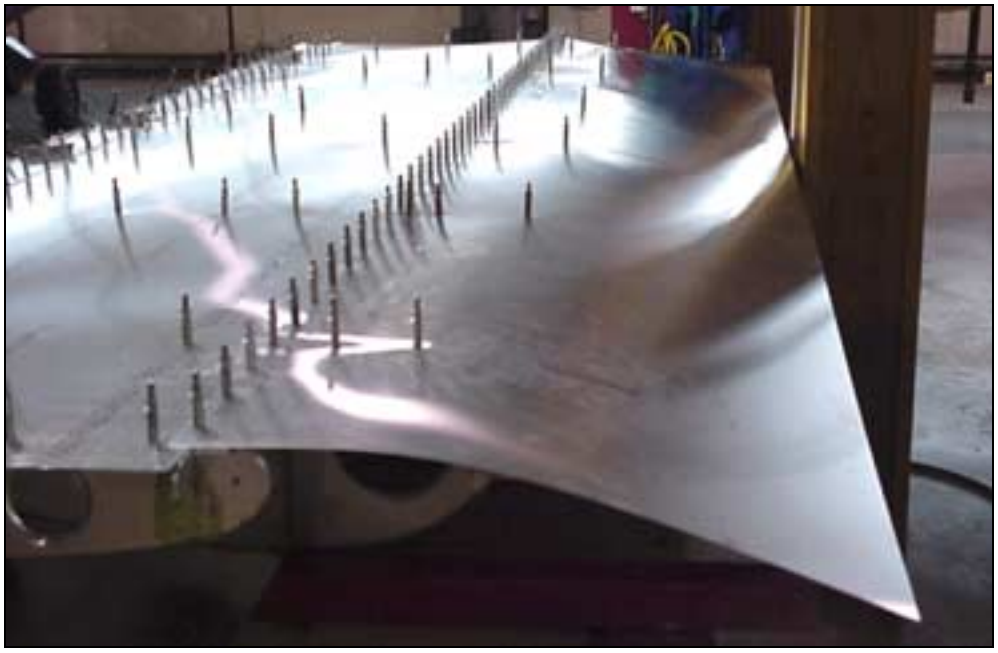
7V7-1 Nose Skin

The best way to cut the slot is by drilling a series of holes using a #30 drill bit. Then finish with a small round file leaving a nice smooth slot.



7V7-1 Nose Skin

This is the finished slot after drilled and filed.



7V7-1 Nose Skin

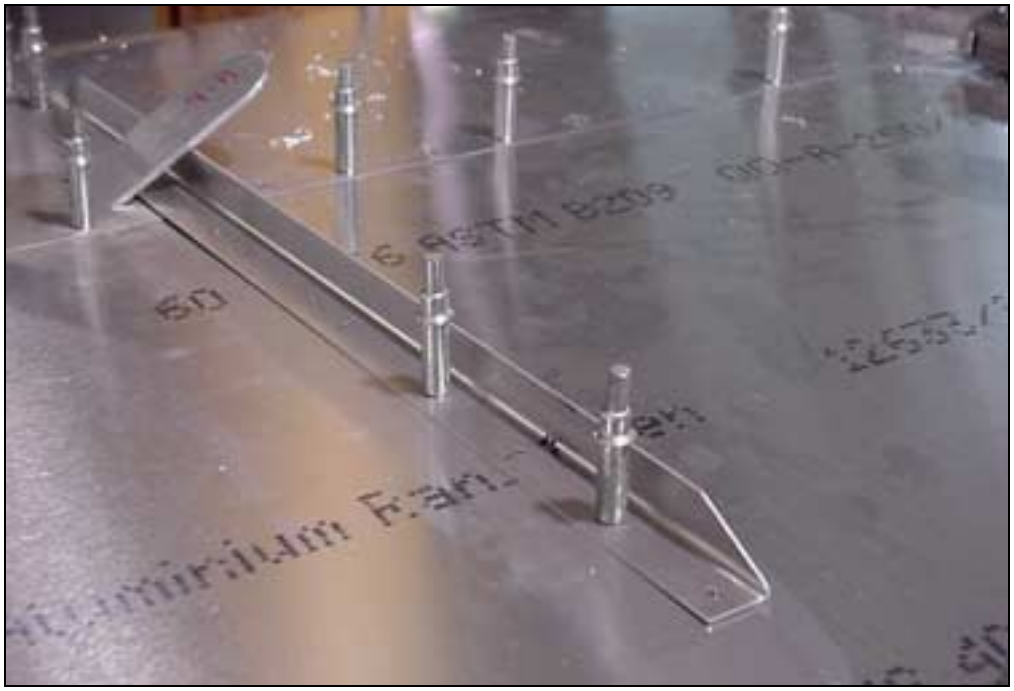
The leading edge skin will sit flush with the rear edge of the spar cap. Lateral position is established by aligning the predrilled holes with the rib centerline. Proceed to drill the rib rivet holes. Align each rib centerline, and make sure that the slat brackets are at the correct distance from each other (drawing 7V6).

7V7-1 Nose Skin

At station #4 layout the cut out for the front upper strut fitting (7V2-5). The cut out is made in front of the spar; it is 12mm wide and 40mm long. Drill out the corners of the hole, cut and file to size.

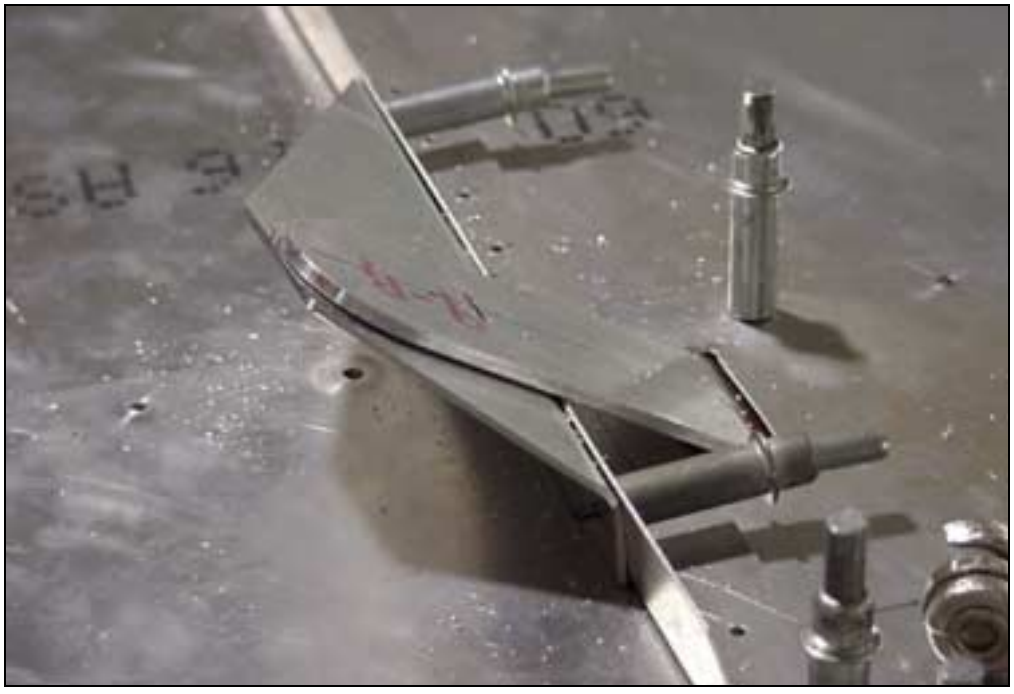
7V2-5 Front Upper Strut Fitting

At this time it is best to cleco the strut fitting if you have a 3/16" cleco, or you can bolt it together.



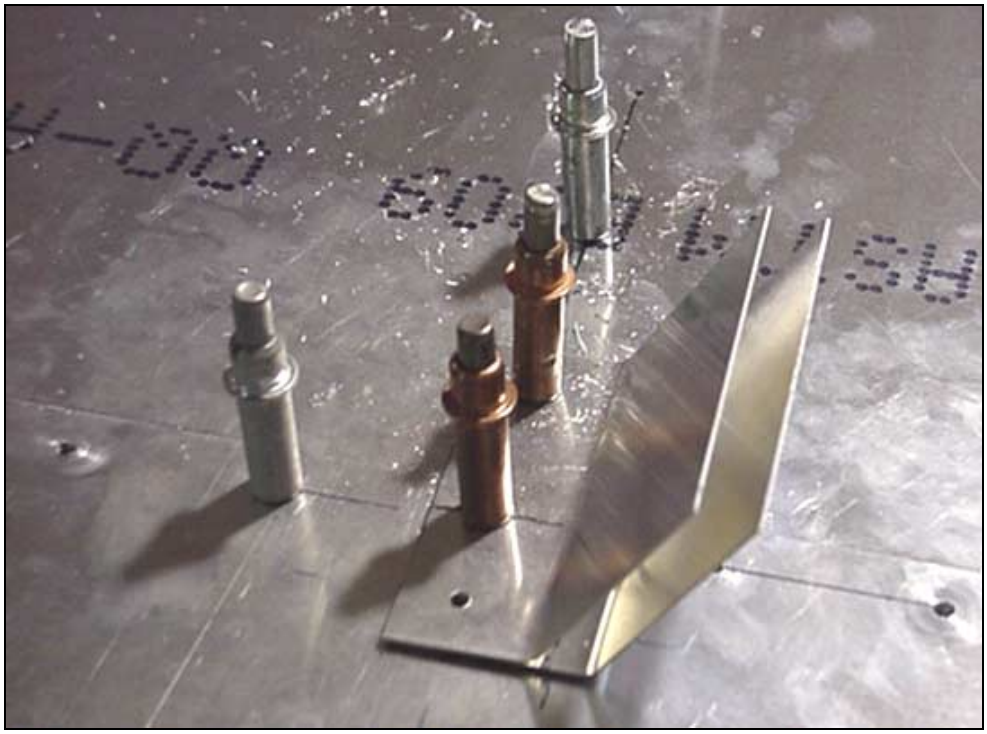
7V8-4SP Strut Angle

Place the strut angle in position and layout the rivet pattern as shown in drawing 7V8. The front and aft end will be trimmed 30mm back on an angle. Drill and cleco.



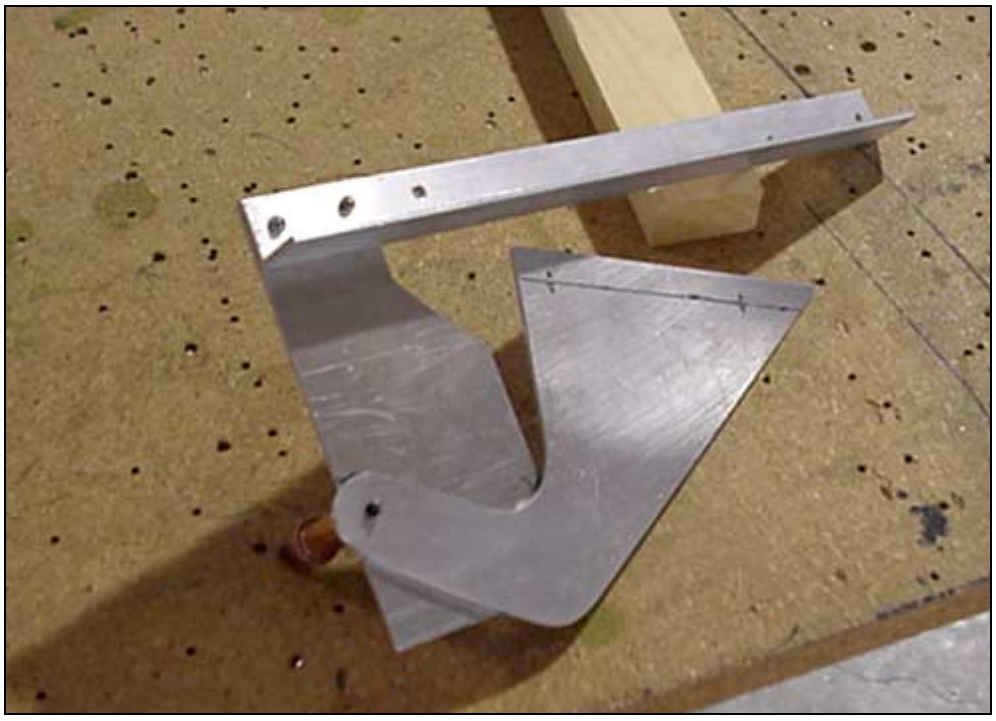
7V8-1SP Front Strut Fitting Doubler

Position 7V8-1SP under the upper strut fitting. It may be necessary to file away the bottom flange a few mm to provide a nice fit. Clamp the doubler to the strut fitting and drill seven evenly spaced #20 holes through 7V8-4SP and one #20 through 7V8-1SP and 7V2-5 (drawing 7V8).



7V10-4SP Jury Strut Angle

Position the jury strut angle at rib station #2 (drawing 7V10) drill and cleco.

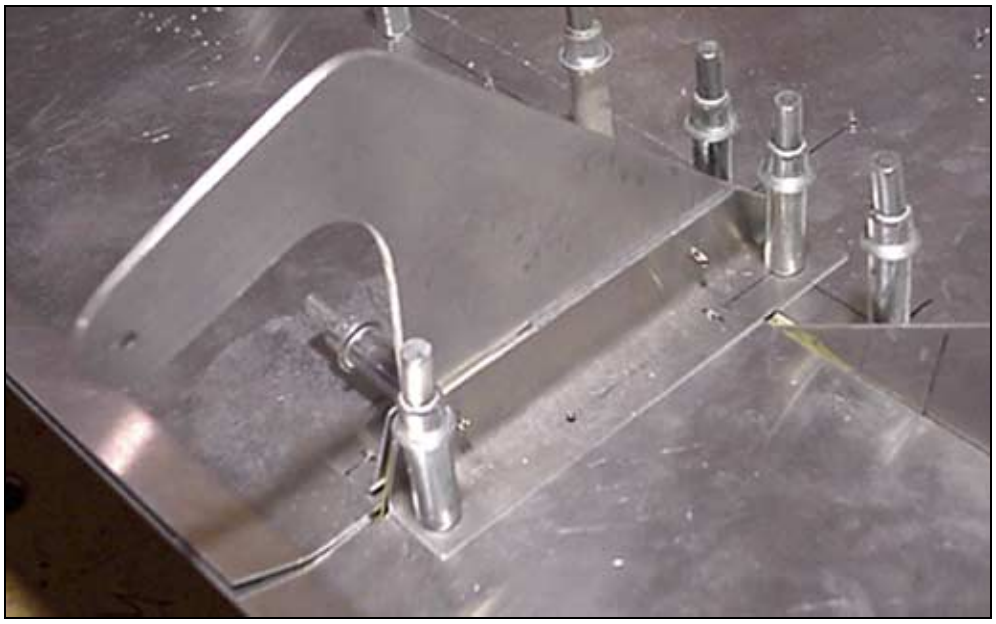


7V5 Flaperon Template
7V4-7 Flaperon Arms

To position the flaperon arms you need to make the flaperon template. The template can be made out of wood or alum but make sure it is accurate and made to the drawing (7V5). Cleco the flaperon arm to the template.

7V4-7 Flaperon Arms

Position the template and arm on the wing and clamp the template to the trailing edge. Drill through the predrilled holes in the flaperon arms and through 7V4-7. A scrap piece of metal under the drill chuck will prevent damage to the wing.



7V4-7 Flaperon Arms Std "L" Angle

TIP: If the nose skin is riveted on the bottom side of the wing, it may be difficult to turn the wing over – recommend to support the edge of the skin with board and to have another person hold and support the board while two other sets of hands turn the wing over.

Cut and position two "L" angles 125mm long on each side of the flaperon arms. Trim the front and back corners of the "L" angle. Evenly space four holes in the "L" and drill. Deburr and apply corrosion protection to the bottom side of the wing. Cleco and rivet the bottom skin, wait to re-install the nose skin until after the wing is turned over.

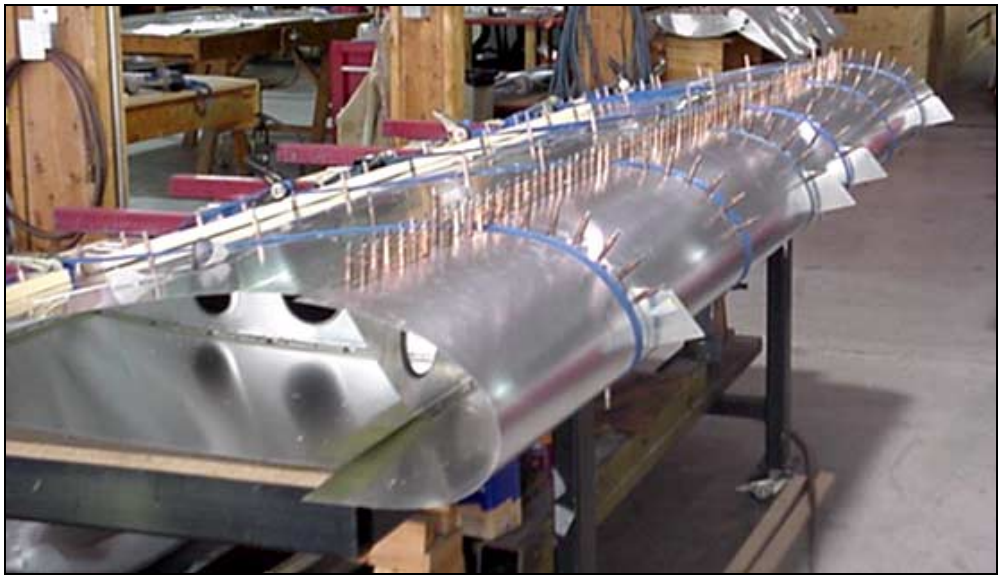
7V7-1 Nose Skin

After the wing is turned over, let the nose ribs overhang past the edge of the workbench and cleco nose skin to the bottom of the wing. The skin can be riveted at this stage.

Turn the wing over.

Level the wing. Letting the trailing edge rest on a 2 by 4 will work very well.

The leading edge skin is held in place with nylon ratchet straps at each rib station. It will work better using a 1 by 2 to hold down the skin until the straps are in position and secure to the wing. Before tightening the straps make sure that the straps will not damage the wing. Using a 1 by 2 under the ratchet will protect the wing from damage. The skin should be tight to the nose ribs but be careful not to over tighten, drill and cleco when the rib centerline is visible through the predrilled holes.



After drilling the nose ribs, layout the spar rivet line. At the spar tip (7V3-3) there are two rivet lines 20mm apart and at spar doubler (7V2-6SP) drill and cleco (drawing 7V8).

7V4-5 Slat Supports

The small “L” angle on each side of the 7V4-5 needs to have 4 A4 rivet pitch 35mm on the slat supports 3,4, and 6.