

VAN'S AIRCRAFT, INC.

Step 1: Flute, straighten and adjust all flange angles of all the ribs per Section 5-12.

Step 2: Fabricate the W-1026 Leading Edge J-Stiffener for both the left and right wing assemblies by cutting two pieces of J-channel, each one 76 1/8 inches long. Draw a centerline on the flange of each J-stiffener as shown in Figure 1. Set one J-stiffener aside for use on the right outboard leading edge

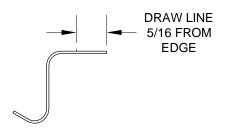
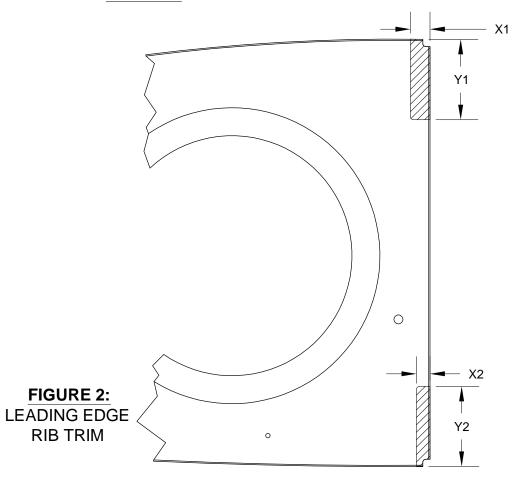


FIGURE 1: J-STIFFENER END VIEW

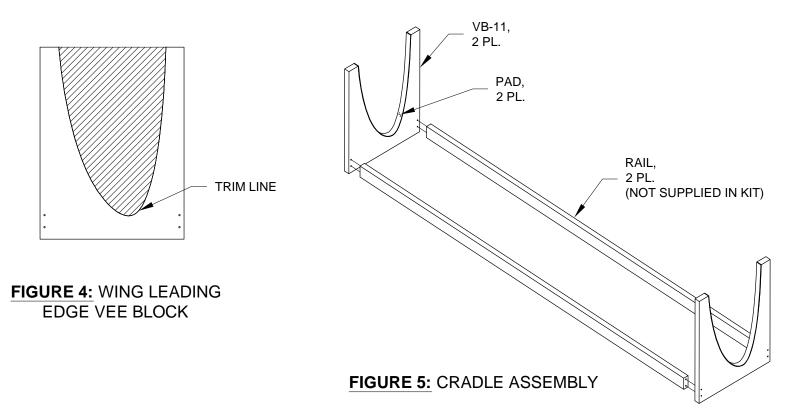
Step 3: Modify two W-1009-L for the left wing assembly and two W-1009-R Leading Edge Ribs for the right wing assembly per the dimensions given in Table 1 and as shown in Figure 2. This will create W-1009-1L, W-1009-2L, W-1009-1R and W-1009-2R. The ribs must be notched to fit around the spar bars and rivet heads on the main spar assembly. Because the main spar bars are stepped (spanwise thickness changes) two different modified ribs will be required, see isometric view on page 1.

	X1	Y1	X2	Y2
W-1009-1L/R				
W-1009-2L/R	11/32	1 11/16	5/32	1 1/16

TABLE 1: LEADING EDGE RIB TRIM



Step 4: Create a cradle to hold both the leading edge and tank assemblies during assembly. First remove the material indicated by the hatched area in Figure 4 from the VB-11 Wing Leading Edge Vee Blocks. Save the removed material, it will be used later to create the flap cradle. Make rails 57 1/2 inches long to interconnect the vee blocks. Assemble the cradle as shown in Figure 5. Line the inside face of the cradle with duct tape or weather strip as shown in Figure 5.



Step 5: Remove the W-1019-1 and W-1019-R Splice Strips from the T-1001-1 and T-1001-R Fuel Tank Skins, see Figure 3. Careful use of a die-grinder works well. File off the remaining tab material.

Step 6: Deburr all edges on all the parts in the leading edge assembly. Smooth the inboard edge of the T-1001 and T-1001 FR Fuel Tank Skins.

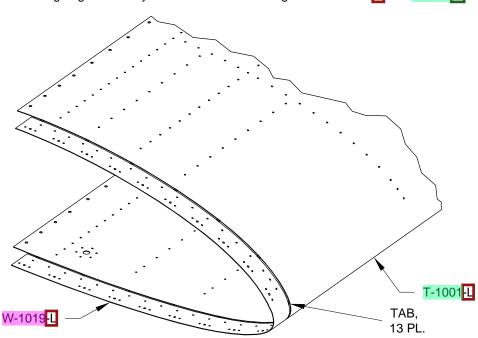


FIGURE 3: REMOVING SPLICE STRIP FROM FUEL TANK SKIN

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FIGURE 2:

RIB TRIM

