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Step 1: Make the F-01201J-1 and F-01201K-1 from AN257-P4 piano hinge per the dimensions in Figure 1. Remove the hinge pin before cutting the parts to length.

Set aside the hinge pin for cowl installation.

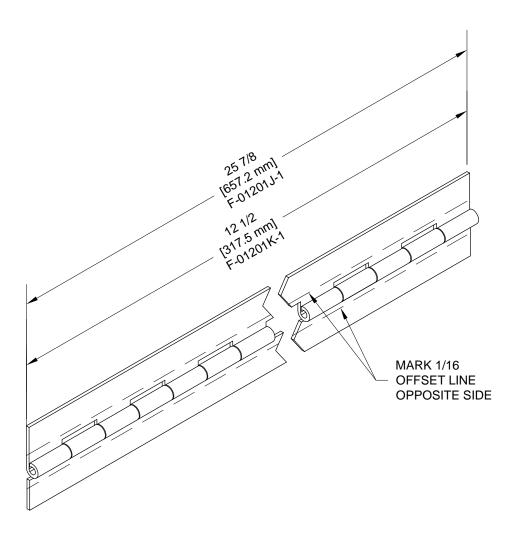


FIGURE 1: UPPER COWL HINGES

<u>Step 2:</u> Mark two lengths of AN257-P4 piano hinge to make the F-12116-L-1 and F-12116-R-1 per the dimensions in Figure 2. Remove the hinge pin then cut the hinge to length.

Set aside the hinge pin for cowl installation.

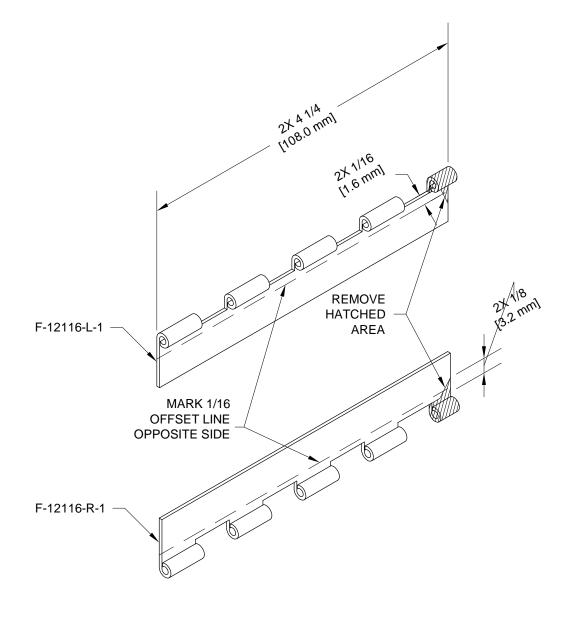
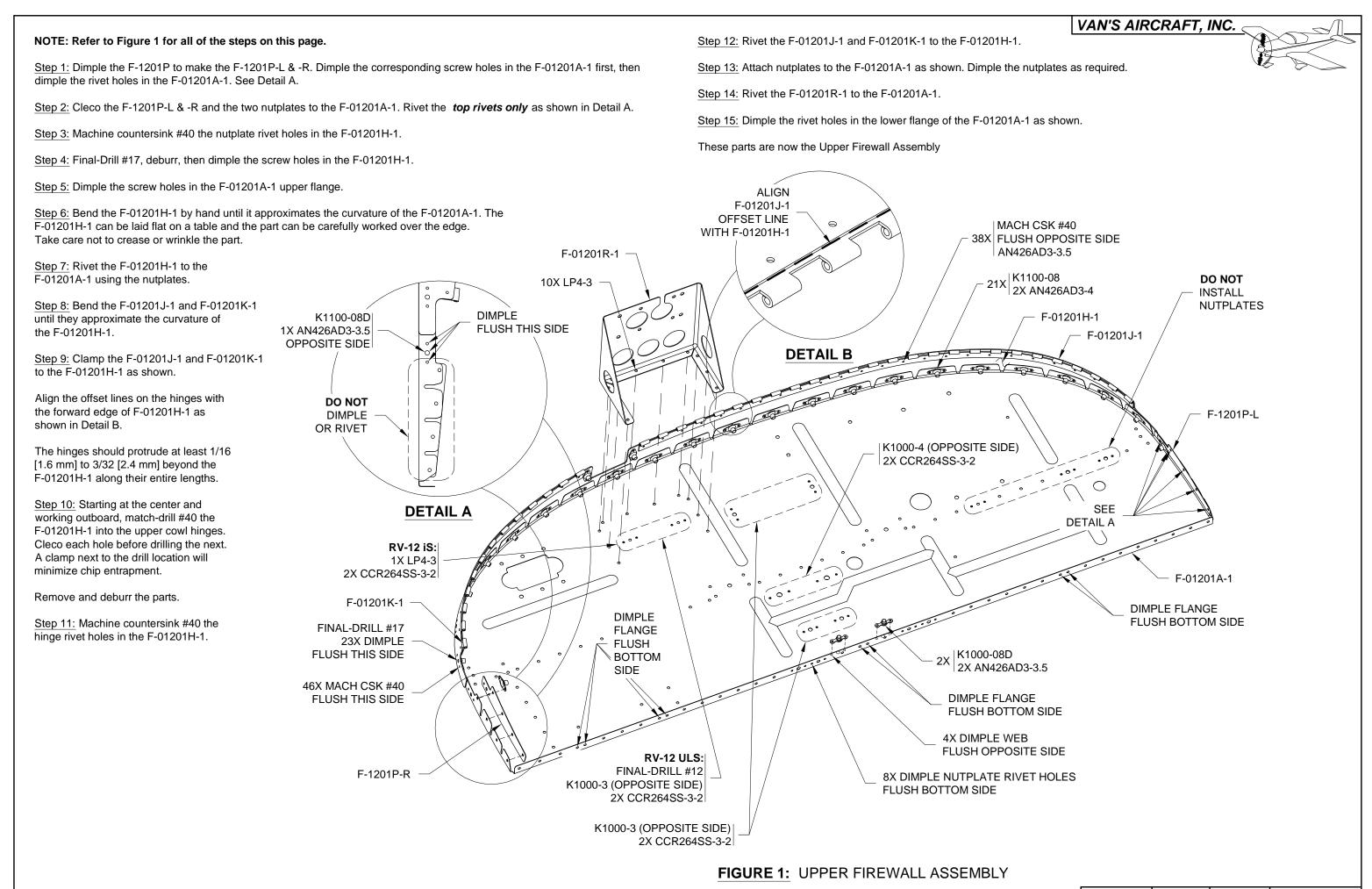
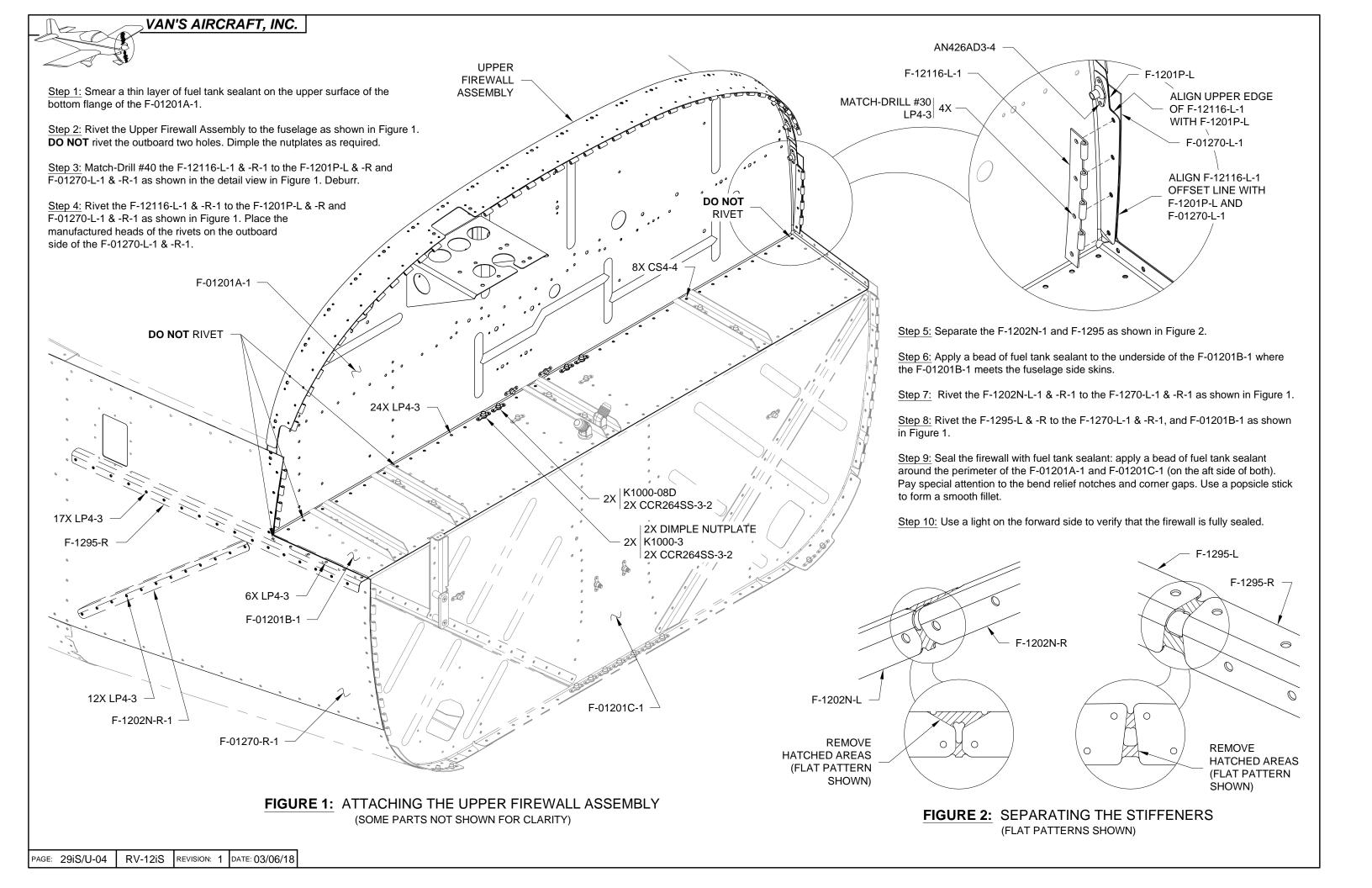


FIGURE 2: MID COWL HINGES





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Step 1: Cut two pieces of AA6-125X1X1 angle and mark as shown in Figure 1.

<u>Step 2:</u> Fabricate the F-1202Y by match-drilling the holes in the F-1202H-L & -R into the angles as shown in Figure 2. Align the centerline marks with the nutplate screw holes and ensure that the bottom surfaces of the parts are in the same plane (i.e. placed on the same flat surface).

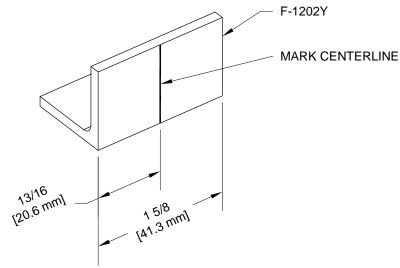


FIGURE 1: MAKING THE STRUT ATTACH ANGLE

NOTE: Refer to Figure 2 for the following steps.

Step 3: Machine countersink the rivet holes in the F-1202M-L flush on the outboard side that correspond to the web of the F-1202H-L as shown.

Step 4: Machine countersink #40 the rivet holes in the upper and aft flanges of the F-1202H-L.

Step 5: Dimple the rivet holes in the web of the F-1202H-L that correspond to the F-1202M-L flush on the outboard side.

Step 6: Final-Drill #17, deburr, then dimple the nutplate screw holes in the upper flanges of the F-1202H-L.

Step 7: Cleco the F-1202M-L and F-1202Y to the F-1202H-L.

Step 8: Final-Drill 1/4 the forward nutplate screw hole as shown. Remove the clecos and deburr.

Step 9: Rivet the F-1202M-L, F-1202Y, and all of the nutplates to the F-1202H-L.

Step 10: Repeat the above steps for the F-1202H-R.

The F-1202H-L & -R and attached parts are now the left and right Canopy Rib Assemblies.

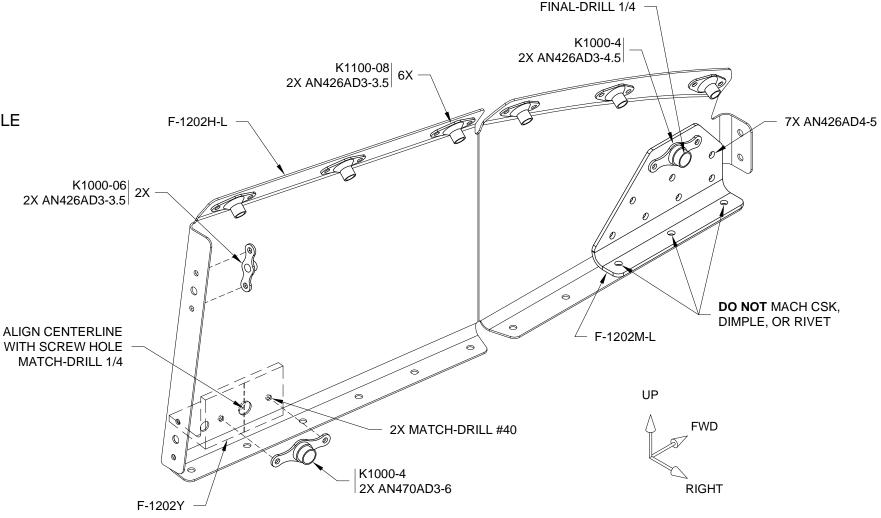
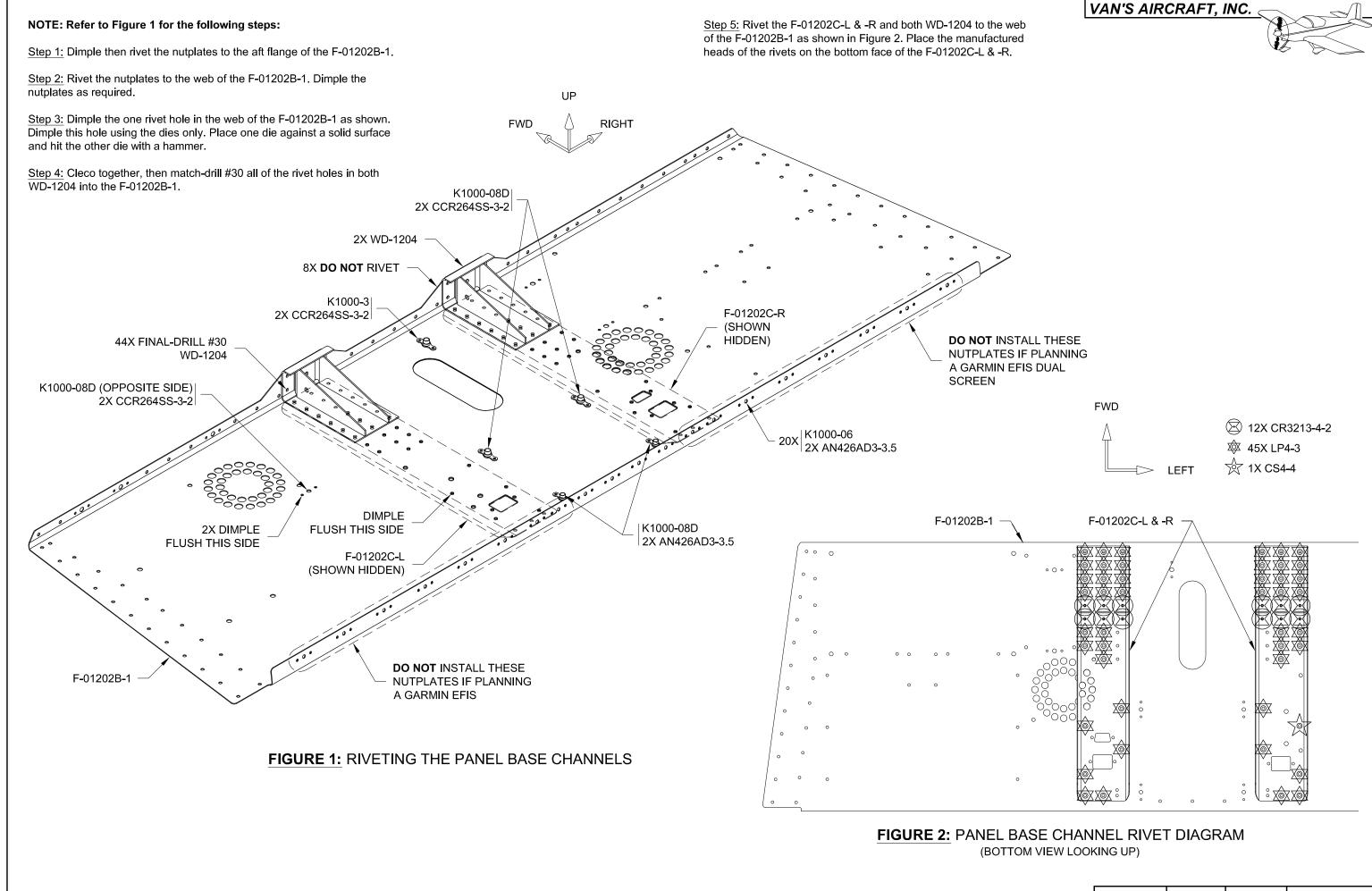
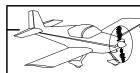


FIGURE 2: MAKING THE CANOPY RIB ASSEMBLIES (LEFT SIDE SHOWN)

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NOTE: Refer to Figure 1 for all of the steps on this page.

<u>Step 1:</u> Cleco the F-01202B-1 to the F-01201A-1. Verify that the aft edge of the F-01202B-1 abuts the forward edges of the F-1234-L & -R and that the left and right edges of the F-01202B-1 align with the fuselage side skins.

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 $\underline{\text{Step 2:}}$ Match-Drill #30 the holes common to the F-01202B-1 and F-1255-L & -R as shown. Remove the F-01202B-1

Step 3: Cleco the Canopy Rib Assemblies to the F-01202B-1 and match-drill #30 the holes from the F-01202B-1 into both F-1202Y. Remove the Canopy Rib Assemblies.

Step 4: For the forward four holes in the left and right edges of the F-01202B-1, rivet the F-01202B-1 to the F-1255-L & -R as shown.

Step 5: Rivet the Canopy Rib Assemblies and both F-12132 to the F-01202B-1 and F-1255-L & -R. The F-12132 attach to the bottom surface of the F-01202B-1.

Step 6: Rivet the F-01202B-1 to the F-1255-L & -R.

NOTE: To aid in cleaning the engine compartment, place the manufactured heads of the rivets on the forward face of the F-01201A-1.

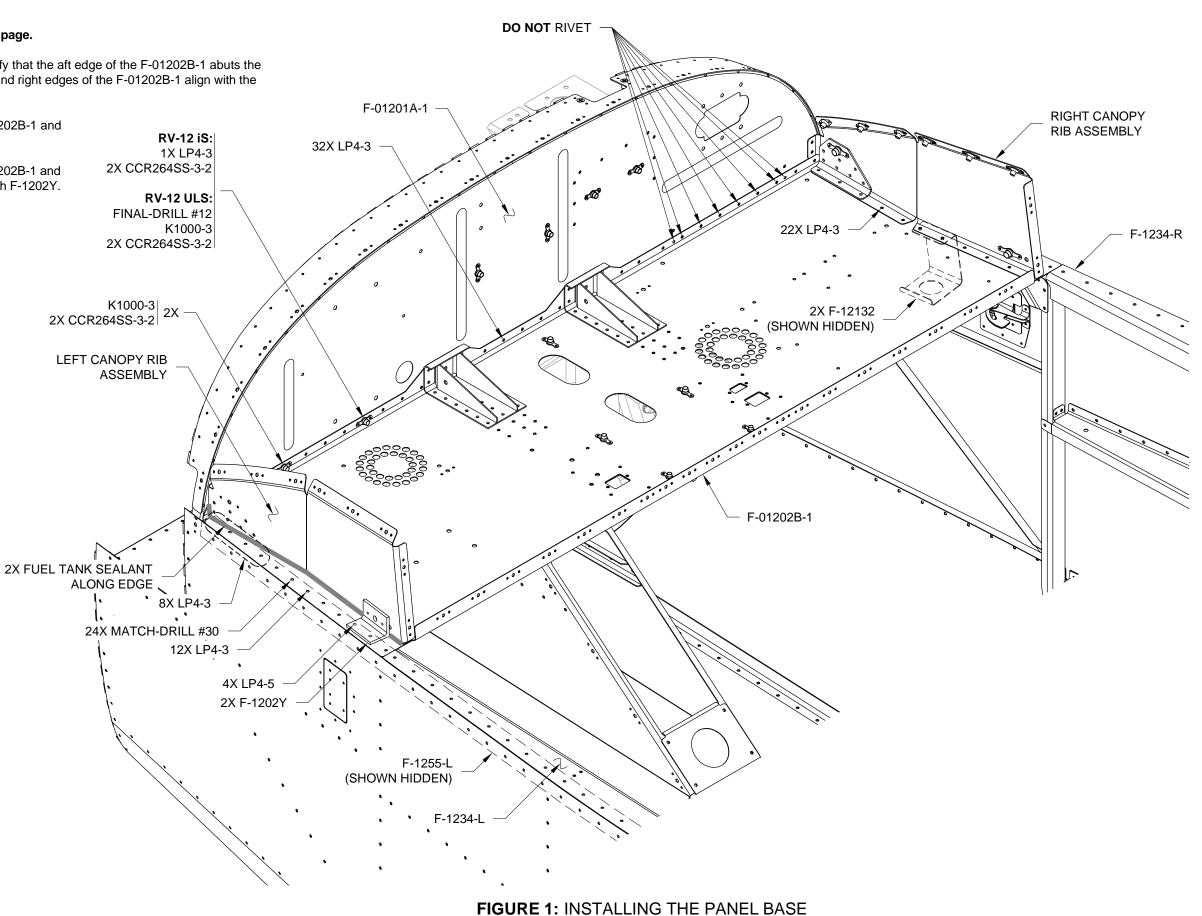
Step 7: Rivet the F-01202B-1 and Canopy Rib Assemblies to the F-01201A-1. Rivet the nutplates common to the F-01202B-1 and F-01201A-1.

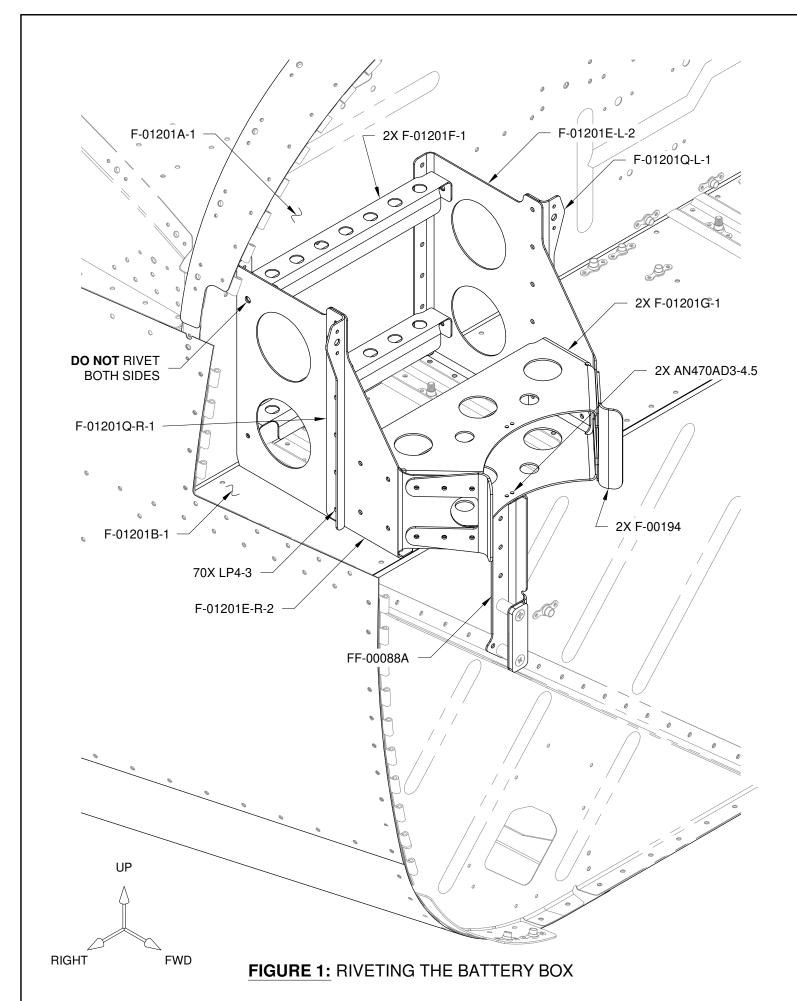
Step 8: Seal the lower outboard edges of the Canopy Rib Assemblies with fuel tank sealant.

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NOTE: Refer to Figure 1 for Steps 1 through 7.

Step 1: Rivet the F-01201Q-L-1 & -R-1 to the F-01201E-L-2 & -R-2. Place the manufactured heads of the rivets on the outboard sides of the F-01201E-L-2 & -R-2.

Step 2: Rivet the upper and lower F-01201F-1 to the F-01201A-1. Note that there are fewer rivets in the lower F-01201F-1.

Step 3: Rivet the F-01201E-L-2 & -R-2 to the F-01201A-1 and F-01201B-1.

Step 4: Rivet the lower F-01201F-1 to the F-01201E-L-2 & -R-2.

Step 5: Cover the head of each rivet on the F-01201A-1, F-01201B-1, and F-01201C-1 with a thin layer of fuel tank sealant.

Step 6: Rivet the lower F-01201G-1 to the FF-00088A.

Step 7: Rivet the upper and lower F-01201G-1 as well as the two F-00194 to the F-01201E-L-2 & -R-2.

Step 8: Fabricate the F-1240C from the provided AS3-025 material as shown in Figure 2.

Step 9: Match-Drill #40 the F-1240C to the F-1240B.

Step 10: Test fit the F-1240B to the fuselage to determine which side goes up. Deburr and dimple all of the holes in both pieces.

Step 11: Rivet the F-1240C to the F-1240B. See Figure 2.

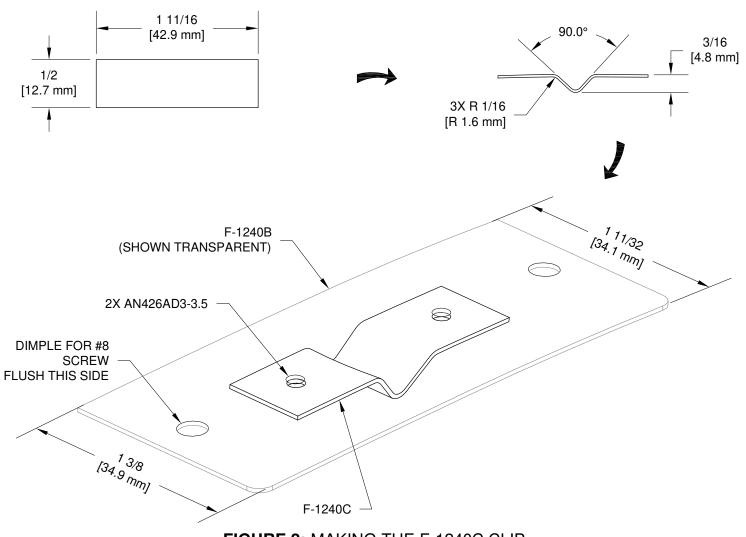


FIGURE 2: MAKING THE F-1240C CLIP

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NOTE: Refer to Figure 1 for the following steps:

<u>Step 1:</u> Carefully curve the left and right sides of the F-01240-1 down by hand. The F-01240-1 should be curved enough that the forward edge presses against the Canopy Rib Assemblies when installed.

Step 2: Final-Drill #17, deburr, and dimple the holes in the left, right, and forward edges of the F-01240-1.

Step 3: Dimple the holes in the aft edge of the F-01240-1.

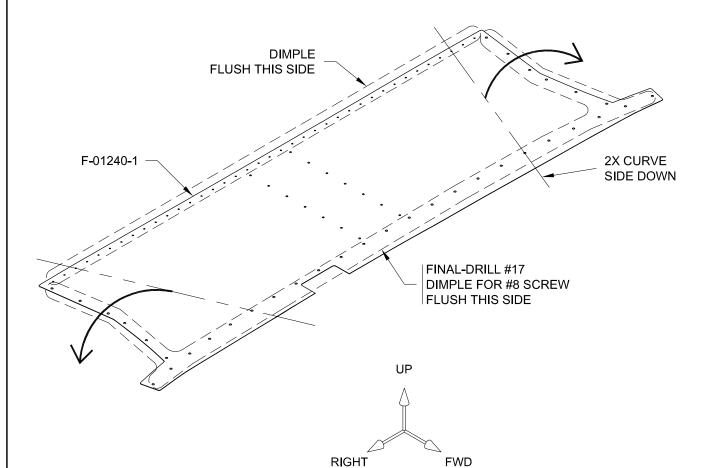


FIGURE 1: ROLLING THE UPPER FORWARD FUSELAGE SKIN

NOTE: Refer to Figure 2 for the following steps:

Step 4: Dimple the F-00077-L & -R.

Step 5: Machine countersink #40 the nutplate rivet holes in the F-00078. Now would be a good time to prime/paint the F-00078 as desired.

Step 7: Rivet the F-00077-L & -R to the F-00078.

Step 6: Rivet the nutplates to the F-00078.

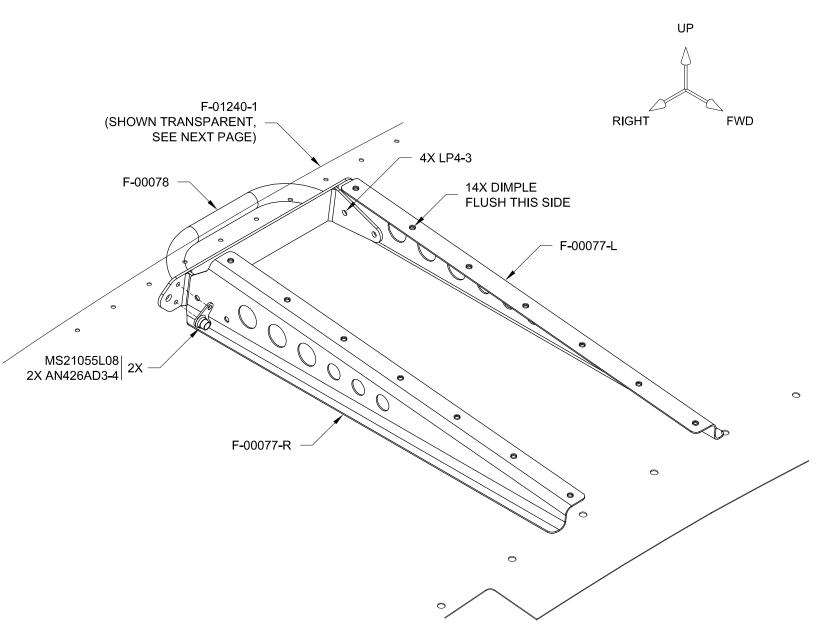


FIGURE 2: PREPARING THE EGRESS HANDLE

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