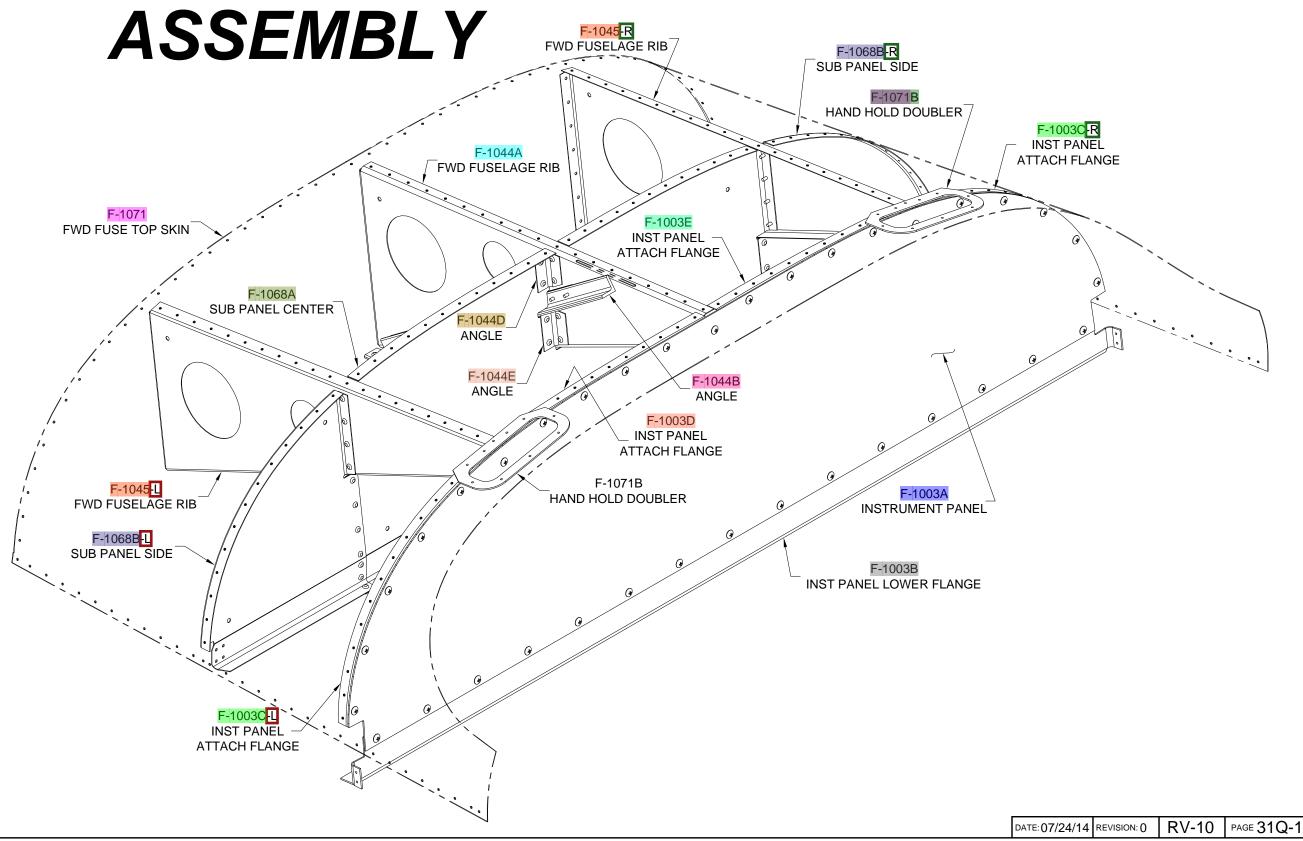
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SECTION 31Q: UPPER FORWARD FUSELAGE



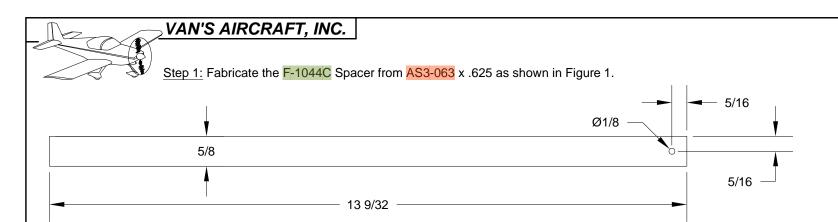


FIGURE 1: FABRICATE SPACER

Step 2: Fabricate the F-1044B Angle from AA6-125 x 3/4 x 3/4 as shown in Figure 2.

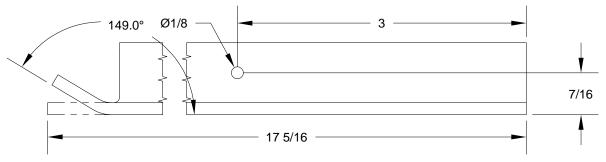


FIGURE 2: FABRICATE ANGLE

Step 3: Fabricate the F-1003D and F-1003E Inst Panel Attach Flanges from AA3-032 x 3/4 x 3/4 as shown in Figure 3.

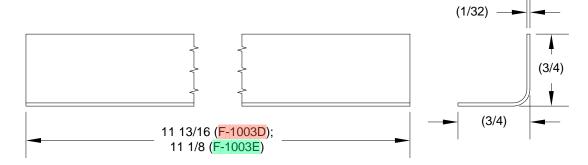


FIGURE 3: FABRICATE INST PANEL ATTACH FLANGES

Step 4: Break apart the F-1044DEF Angle into individual F-1044D, F-1044E, and F-1044F Angles as shown in Figure 4.

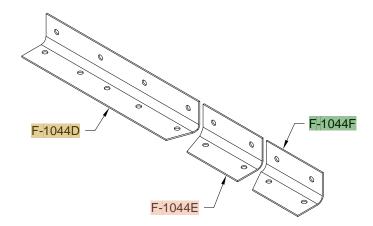


FIGURE 4: BREAK APART ANGLES

Step 5: Flute and straighten the flanges of the F-1003C Inst Panel Attach Flange per Section 5N.

Cut apart the inst panel attach flange into individual F-1003C-L and F-1003C-R Inst Panel Attach Flanges as shown in Figure 5.

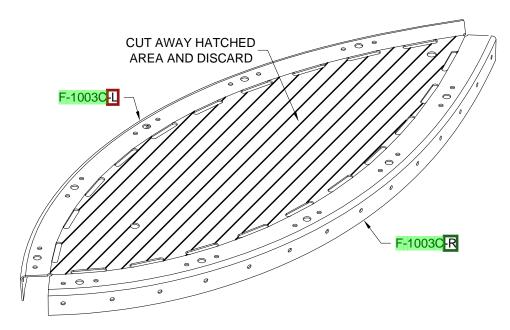
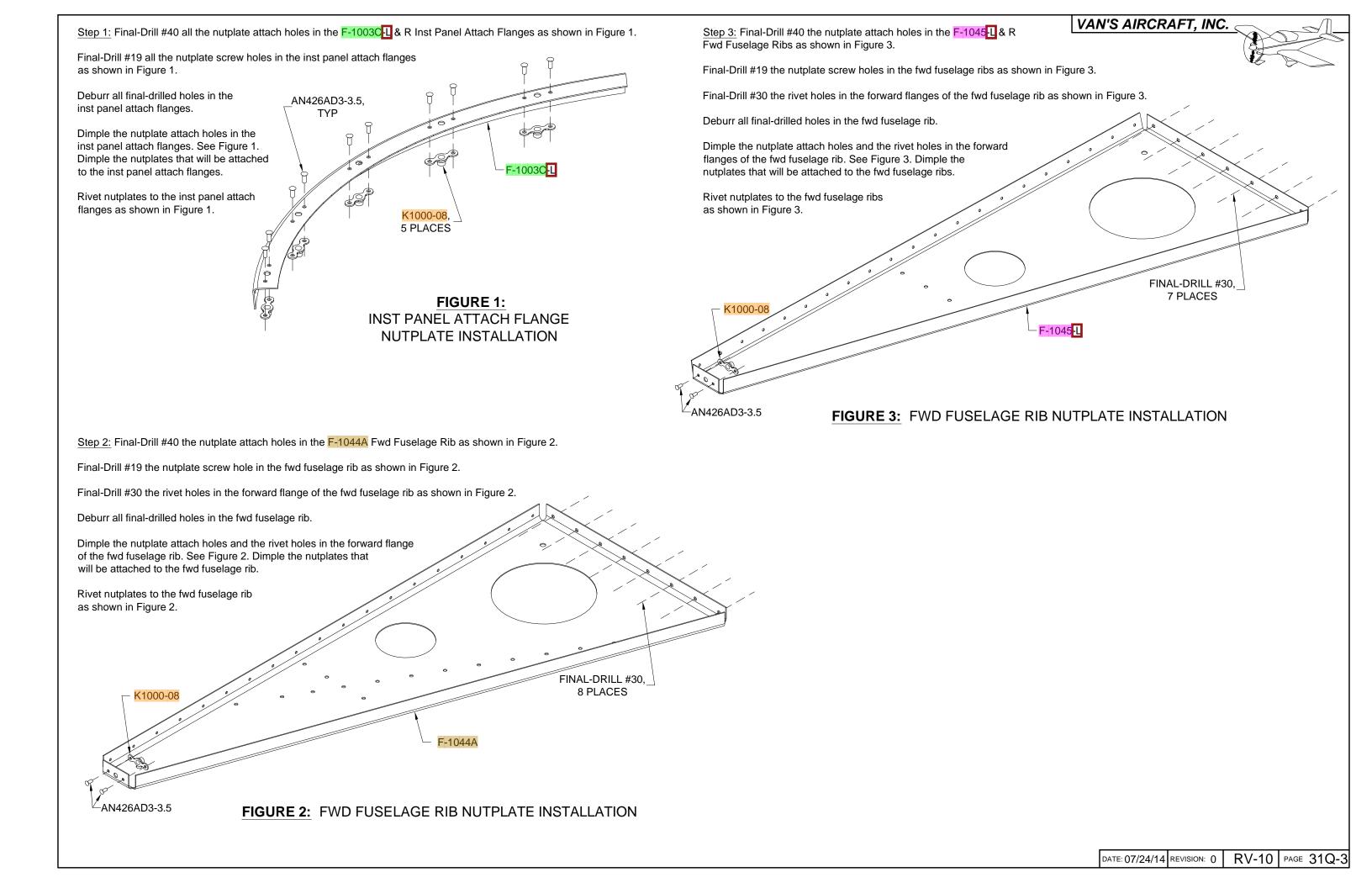
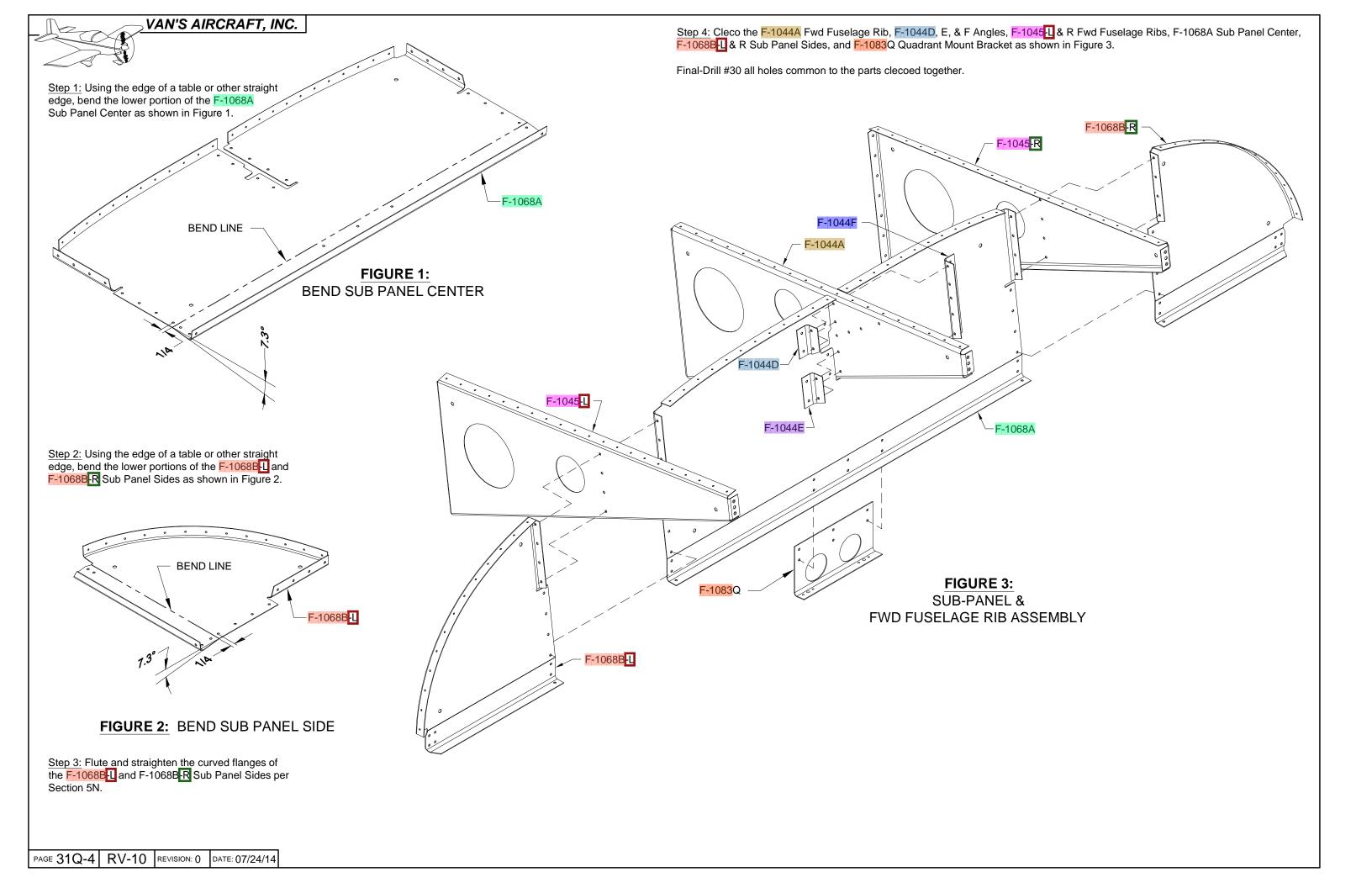
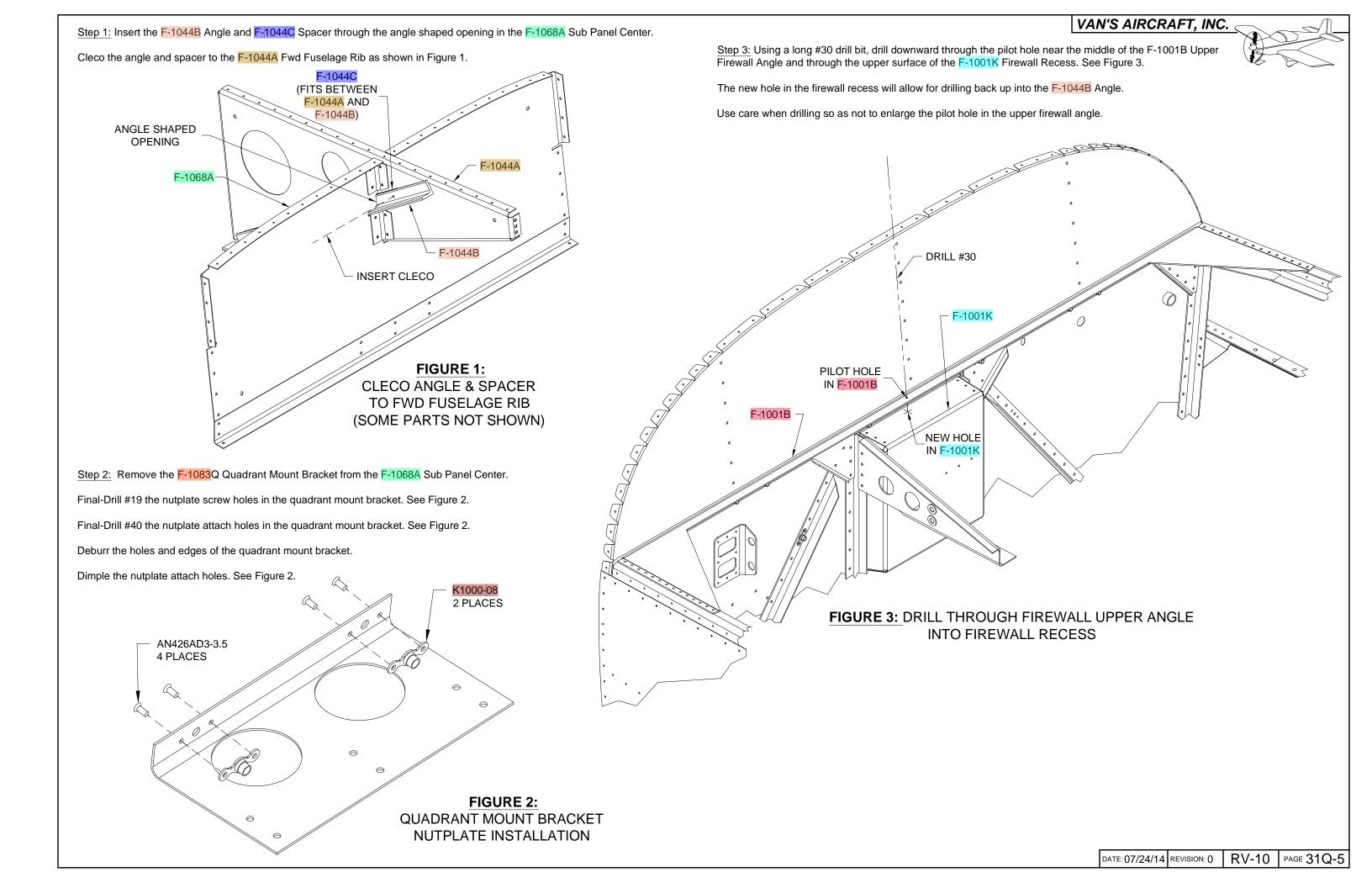
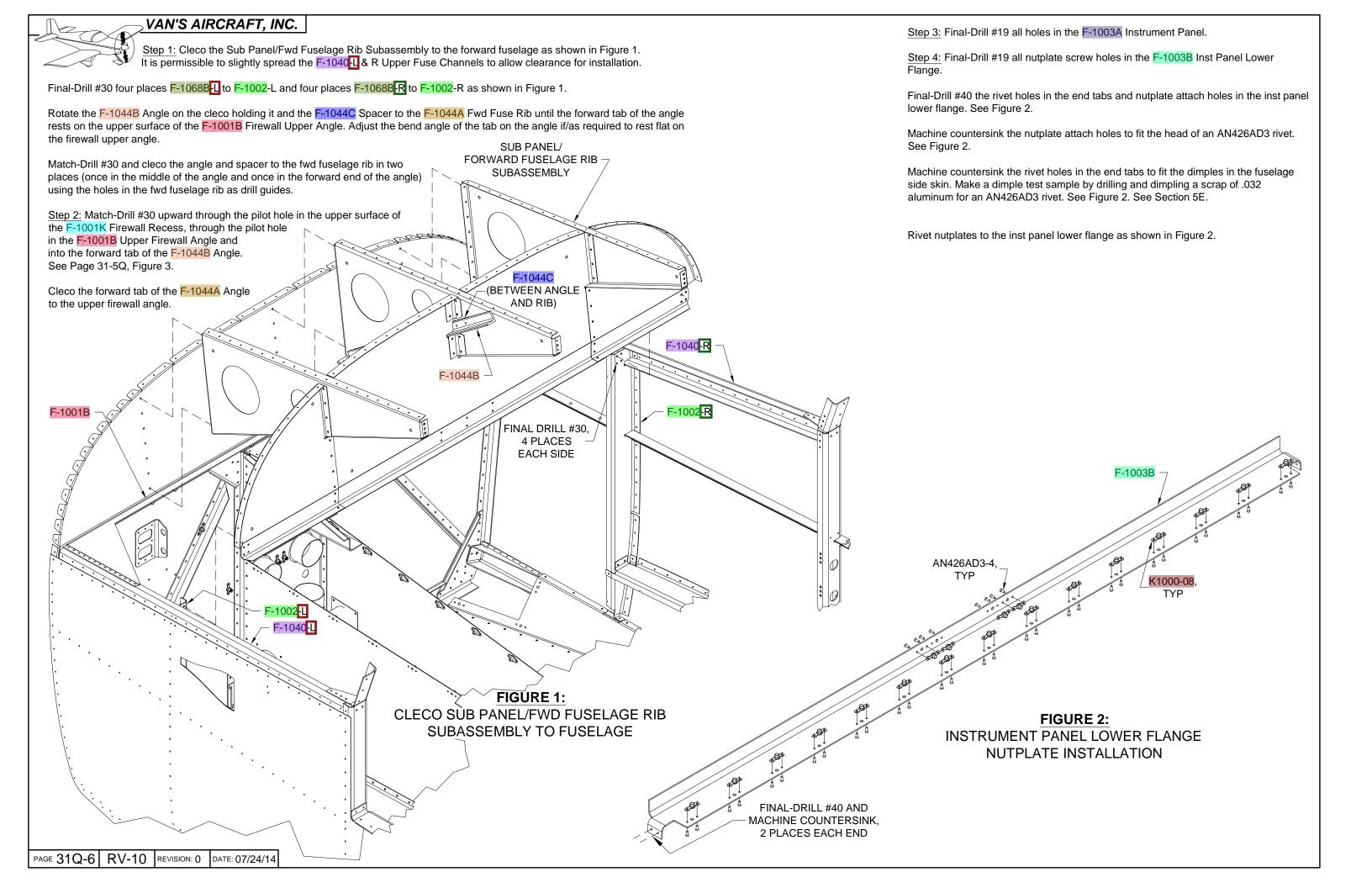


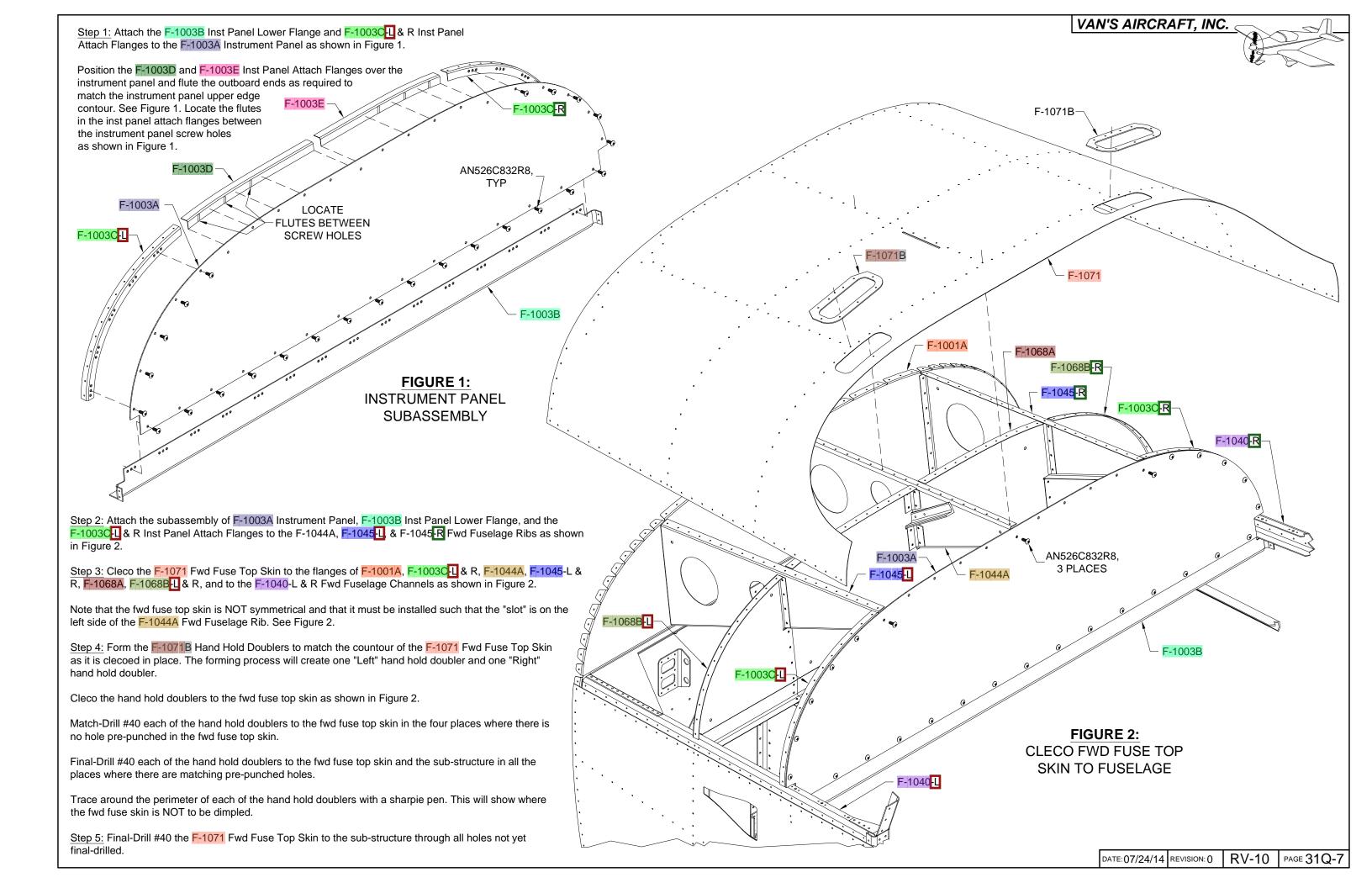
FIGURE 5: BREAK APART INST PANEL ATTACH FLANGES











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Step 1: Position the F-1003D Inst Panel Attach Flange simultaneously against the F-1071 Fwd Fuse Top Skin and the forward side of the F-1003A Instrument Panel (See Page 31-7Q, Figure 1). Match-Drill #40 and cleco the inst panel attach flange using the holes in the fwd fuse top skin as drill guides. Be sure that the inst panel attach flange is in contact with the forward surface of the instrument panel when match-drilling.

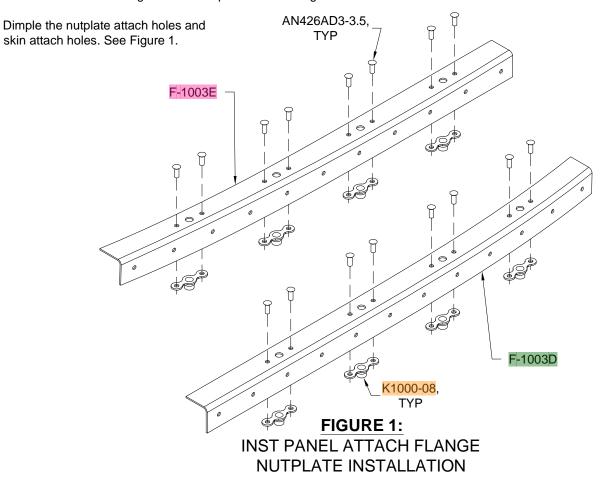
Step 2: Position the F-1003E Inst Panel Attach Flange simultaneously against the F-1071 Fwd Fuse Top Skin and the forward side of the F-1003A Instrument Panel (See Page 31-7Q, Figure 1). Match-Drill #40 and cleco the inst panel attach flange using the holes in the fwd fuse top skin as drill guides. Be sure that the inst panel attach flange is in contact with the forward surface of the instrument panel when match-drilling.

Step 3: Match-Drill #19 through the screw holes in the F-1003A Instrument Panel and into the F-1003D and F-1003E Inst Panel Attach Flanges.

Step 4: Final-Drill #40 the F-1071 Fwd Fuse Top Skin to the sub-structure through all holes not yet match-drilled or final-drilled.

Step 5: Remove the F-1003D and F-1003E Inst Panel Attach Flanges. Using a nutplate as a drill guide, match-drill #40 two nutplate attach holes for each screw hole. See Figure 1.

Deburr the holes and edges of the inst panel attach flanges.



Step 6: Machine countersink the rivet holes in the F-1071B Hand Hold Doublers to fit the head of an AN426AD3 rivet. See Page 31-7Q, Figure 2.

Uncleco the hand hold doublers from the F-1071 Fwd Fuse Top Skin and deburr holes and edges.

Step 7: Uncleco the F-1071 Fwd Fuse Top Skin from the sub-structure. When unclecoing, mark the holes in the sub-structure that lie under the F-1071B Hand Hold Doublers with a sharpie pen so that they will not be dimpled later.

Deburr the holes and edges of the fwd fuse top skin then dimple all holes EXCEPT those that are under the F-1071B Hand Hold Doublers.

Step 8: Dimple the holes in the flanges of the F-1001A Firewall Bulkhead that are common to the F-1071 Fwd Fuse Top Skin. See Page 31-7Q, Figure 2.

Step 9: Machine countersink the holes in the F-1040-1 & R Upper Fuse Channels and F-1042-1 & R Bulkhead Side Channels that are common to the F-1071 Fwd Fuse Top Skin. Countersink deep enough to fit the dimples in the fwd fuse top skin. Make a dimple test sample by drilling and dimpling a scrap of .032 aluminum for an AN426AD3 rivet. See Page 31-7Q, Figure 2. See Section 5E.

Most "micro-stop" countersink cages will interfere with the upper edge of the F-1069 Fwd Side Skins. In this case, the countersinking is best done "free-hand" with a countersink cutter in a drill motor.

Step 10: Remove the subassembly of F-1003A Instrument Panel, F-1003B Inst Panel Lower Flange, and the F-1003C-1 & R Inst Panel Attach Flanges from the F-1044A, F-1045-1 & F-1045-1 Fwd Fuselage Ribs. See Page 31-7Q, Figures 1 and 2.

Remove the inst panel attach flanges and inst panel lower flange from the instrument panel.

Deburr all open rivet holes and edges of the inst panel attach flanges then dimple all rivet holes EXCEPT the two most inboard rivet holes which lie under the F-1071B Hand Hold Doublers. See Page 31-7Q, Figure 2.

Step 11: Remove the Sub-Panel/Fwd Fuselage Rib Subassembly from the forward fuselage. See Page 31-6Q, Figure 1.

Disassemble the Sub-Panel/Fwd Fuselage Rib Subassembly into it's individual components. See Page 31-4Q, Figure 3.

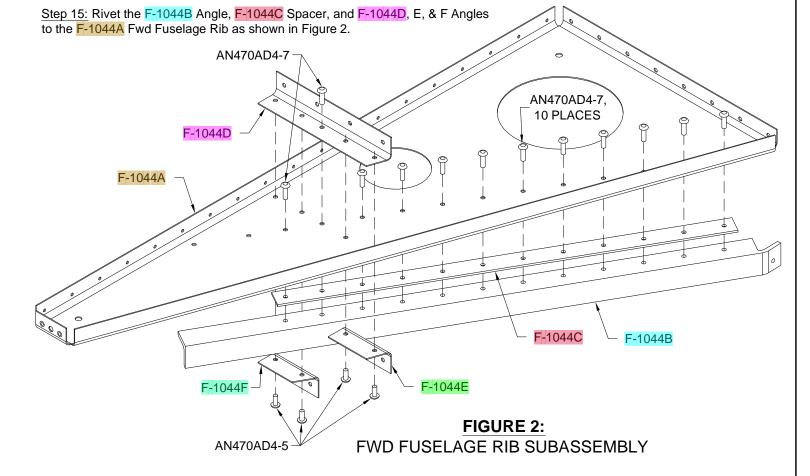
Deburr the holes and edges of all parts.

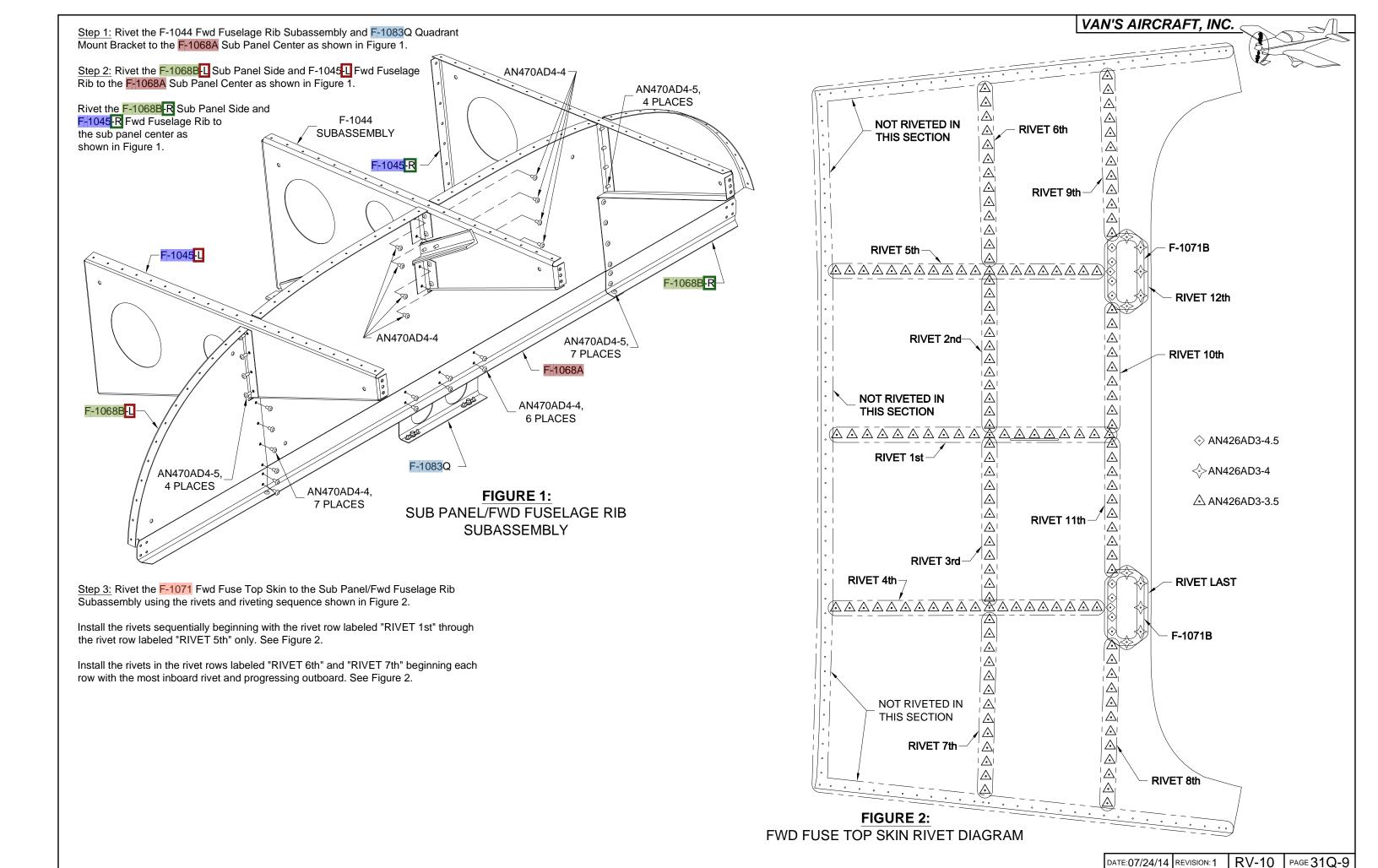
Dimple the skin attach rivet holes in the F-1044A and F-1045-L & R Fwd Fuselage Ribs, F-1068A Sub Panel Center, and F-1068B-L & R Sub Panel Sides.

Step 12: Prime the F-1044B Angle. Prime all other parts if/as desired.

Step 13: Dimple the nutplates that will be attached to the F-1003D & E Inst Panel Attach Flanges and F-1083Q Quadrant Mount Bracket. See Figure 1 and Page 31-5Q, Figure 2.

Step 14: Rivet nutplates to the F-1003D & E Inst Panel Attach Flanges and F-1083Q Quadrant Mount Bracket as shown in Figure 1 and Page 31-5Q, Figure 2.







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Step 1: Rivet the F-1003C-L & R Inst Panel Attach Flanges to the F-1071 Fwd Fuse Top Skin as shown in Figure 1. Use the rivets and riveting sequence shown in Page 31-9Q, Figure 2.

Step 2: Rivet the F-1003D and F-1003E Inst Panel Attach Flanges to the F-1071 Fwd Fuse Top Skin as shown in Figure 1. Use the rivets and riveting sequence shown in Page 31-9Q, Figure 2.

Step 3: Rivet the two F-1071B Hand Hold Doublers to the F-1071 Fwd Fuse Top Skin as shown in Figure 1. Use the rivets shown in Page 31-9Q, Figure 2.

