

Step 2: Fabricate the F-1070A and B Roll Construction Angles per the dimensions in Figure 2 (the F-1070A is shown, and the F-1070B is its mirror image). Drill a #40 hole in the end of both roll construction angles per the dimensions in Figure 2.

Step 3: Cleco the #40 hole in the F-1070 A Roll Construction Angle to the alignment hole (called out in Figure 3) in the F-1070 R Mid Side Skin. With the roll construction angle parallel to the bottom edge (indicated in Figure 3) of the mid side skin, match-drill #40 all of the holes along the bottom edge of the mid side skin into the roll construction angle. Separate the two parts. Cleco the original #40 hole in the F-1070 R Roll Construction Angle to the #40 hole in the F-1070 R Roll Construction Angle, and clamp the remaining portions together (see Page 29-5, Figure 1 for their orientation). Match-Drill #40 all of the holes in the F-1070 R Roll Construction Angle. Separate the two parts and set them aside.

Step 4. Draw a line between the two fivets holes shown in the detail view in Figure 3. Offset this line por the dimension in the detail view and extend the line to interesce the trailing edge. Draw the "Start of Roll Line" between this intersection and the center of the relief notch as shown in Figure 3.

DRILL #40

DRILL #40

RELIEF NOTCH

START OF ROLL LINE

START OF ROLL LINE

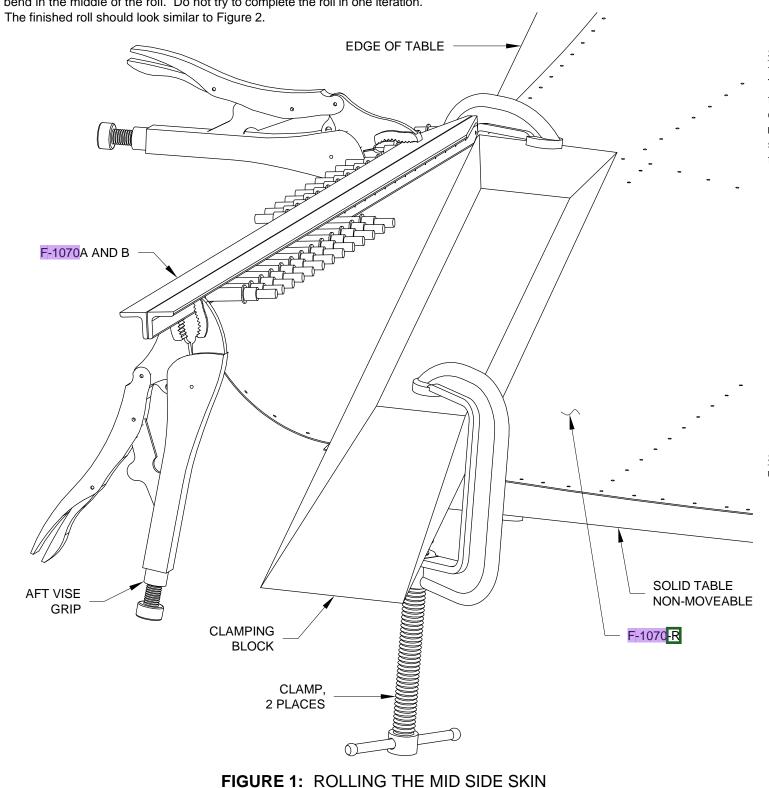
FIGURE 2: FABRICATING THE ROLL

BOTTOM EDGE

**CONSTRUCTION ANGLE** 

Step 1: Align the "Start of Roll Line" (see Page 29-4, Figure 3) on the F-1070-R Mid Side Skin with the edge of a table. Align the Clamping Block with the "Start of Roll Line", then clamp it and the mid side skin to the table. As shown in Figure 1, cleco the F-1070A and B Roll Construction Angles to the mid side skin, and clamp two vise grips onto either end of the roll construction angles. Double check that you are about to bend the skin in the correct direction; the outboard face of the skin should be down against the table with the inboard face up.

Step 2: Roll the skin into a cone that terminates in a sharp bend at the forward end. The roll is created with the aft vice grip handle, and the sharp bend is naturally formed at the forward end (the sharp bend is finished in Step 3). Twist the F-1070A and B roll construction angles with the aft vise grip and at the same time push the aft end down and inwards towards the table. Use the extra roll construction angle which extends aft of the vise grip as a handle for your other hand. The twisting and pushing motion must be balanced. Twisting too much will create a crease along the edge of the roll construction angles; pushing to hard will create a sharp bend in the middle of the roll. Do not try to complete the roll in one iteration.



F-1070B

F-1070B

F-1070C

F-1070-R

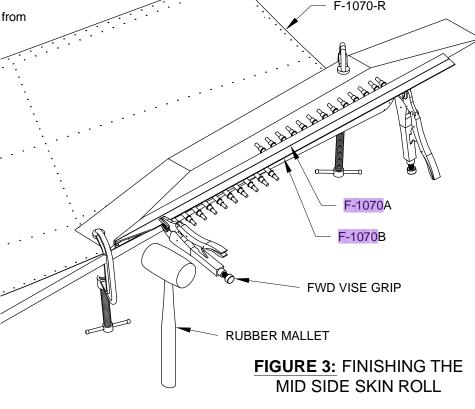
CLAMPING
BLOCK

FIGURE 2: THE AFT ROLL DIMENSIONS

move the four, forward most clecos from A and B Roll Construction Angles.
Ill construction angles with the

Step 3: Remove the four, forward most clecos from the F-1070A and B Roll Construction Angles.

Twist the roll construction angles with the forward vise grip, then strike the roll construction angles with a rubber mallet to finish forming the sharp radius at the front of the roll.



Step 4: Remove the F-1006B Bulkhead from the Tailcone Assembly. Cleco the F-1070 R Mid Side Skin and the bulkhead to the underlying structure and check that the mid side skin is properly formed. See Figure 4.

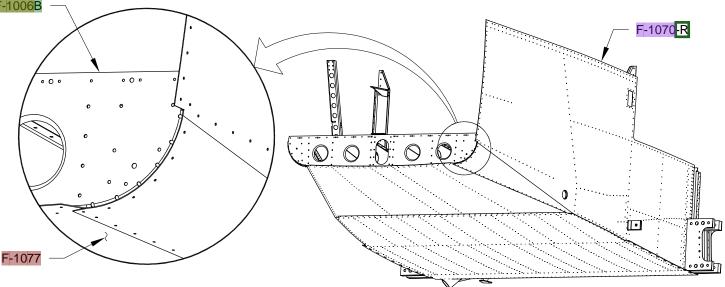
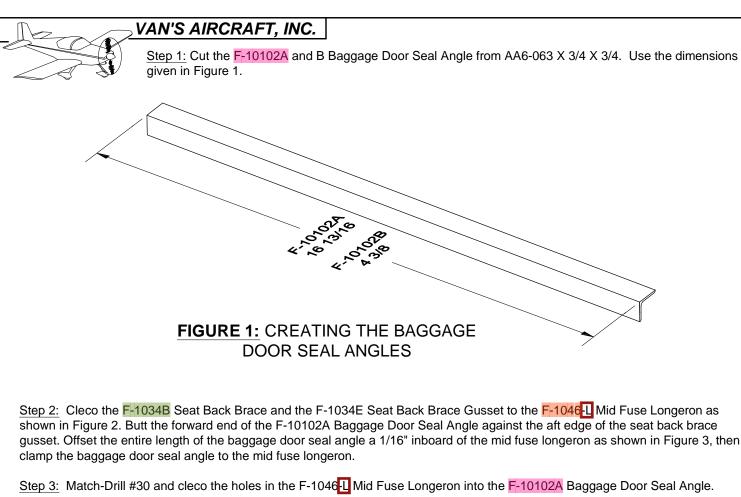


FIGURE 4: TEST FITTING THE MID SIDE SKIN

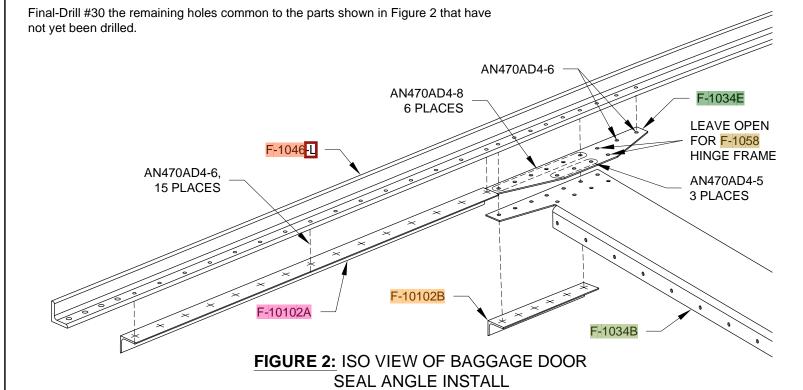
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gusset. Offset the entire length of the baggage door seal angle a 1/16" inboard of the mid fuse longeron as shown in Figure 3, then

Step 4: Butt the aft end of the F-10102B Baggage Door Seal Angle against the forward end of the F-10102A Baggage Door Seal Angle (see Figures 2 and 4). Offset the F-10102B Baggage Door Seal Angle a 1/16" inboard of the mid fuse longeron and clamp it

Step 5: Match-Drill #30 and cleco the six holes common to the F-1046-1 Mid Fuse Longeron, F-1034B Seat Back Brace, and F-1034E Seat Back Brace Gusset into the F-10102B Baggage Door Seal Angle.



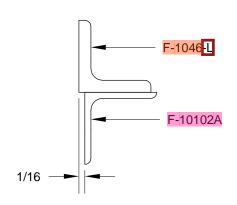
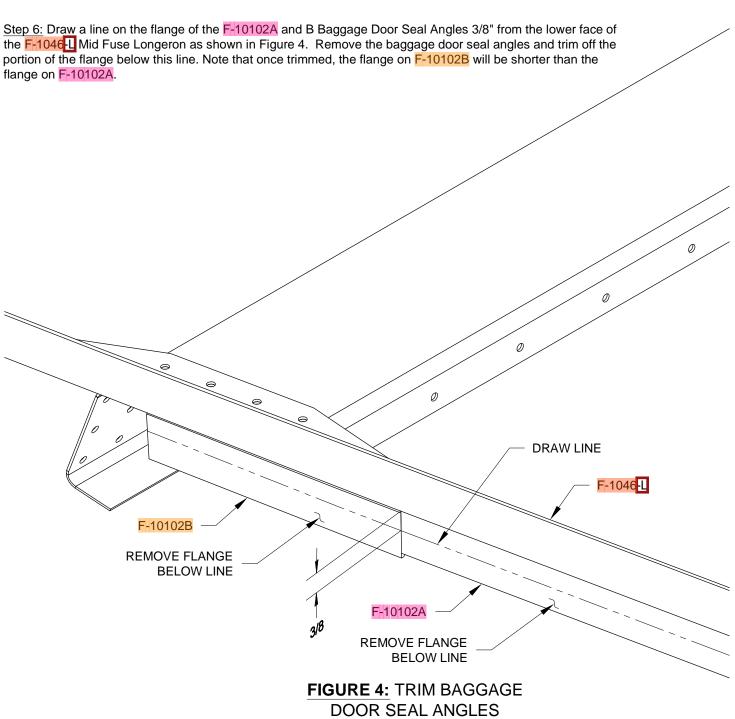
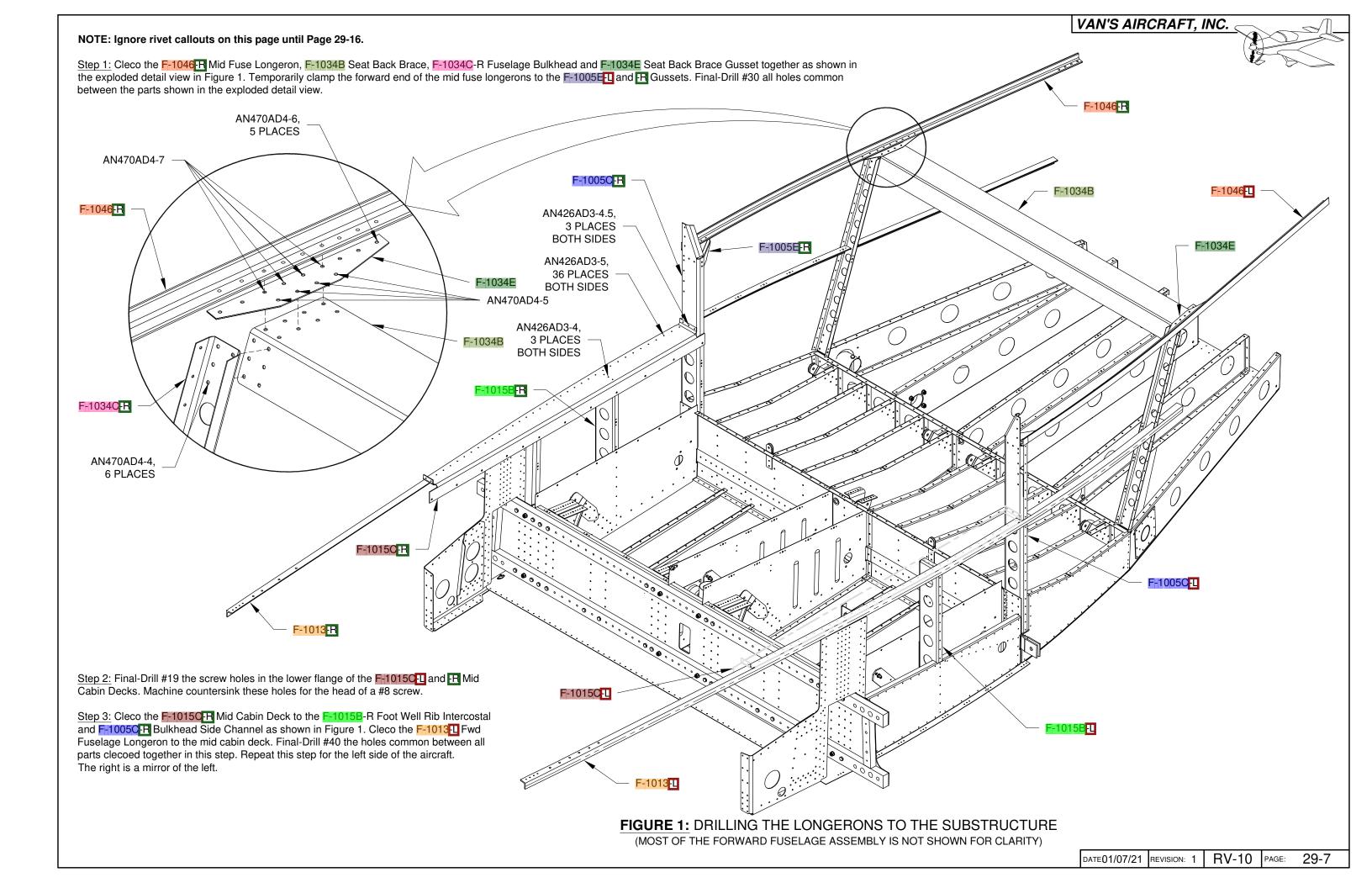


FIGURE 3: BAGGAGE DOOR **SEAL ANGLE OFFSET** 





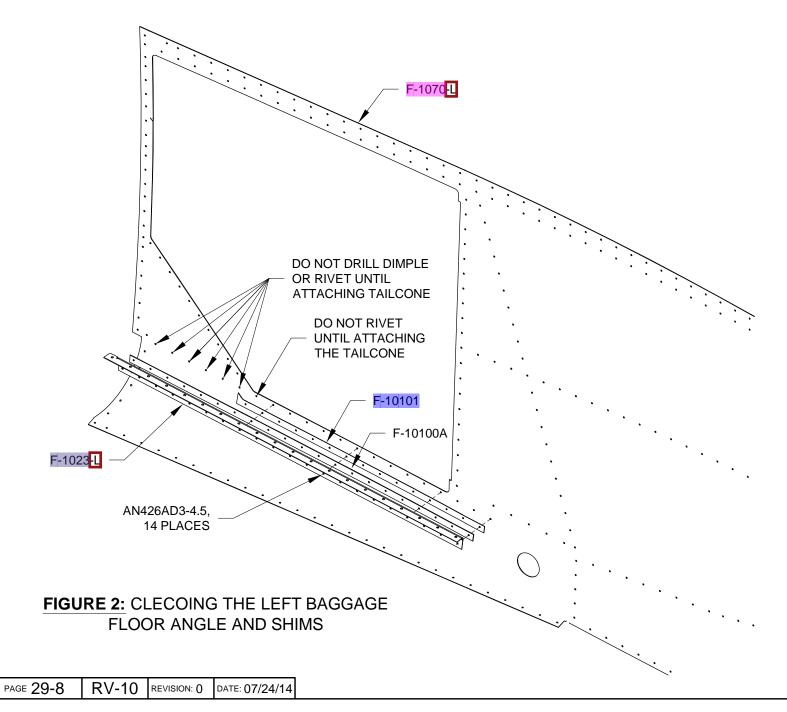
Note: Ignore rivet callouts on this page until Page 29-16.

Step 1: Cut the F-10100 Baggage Door Shim into F-10100A and B Baggage Door Shims as shown in Figure 1. Remove the tabs and deburr the edges of both parts. Set the F-10100B Baggage Door Shim aside until attaching the tailcone.

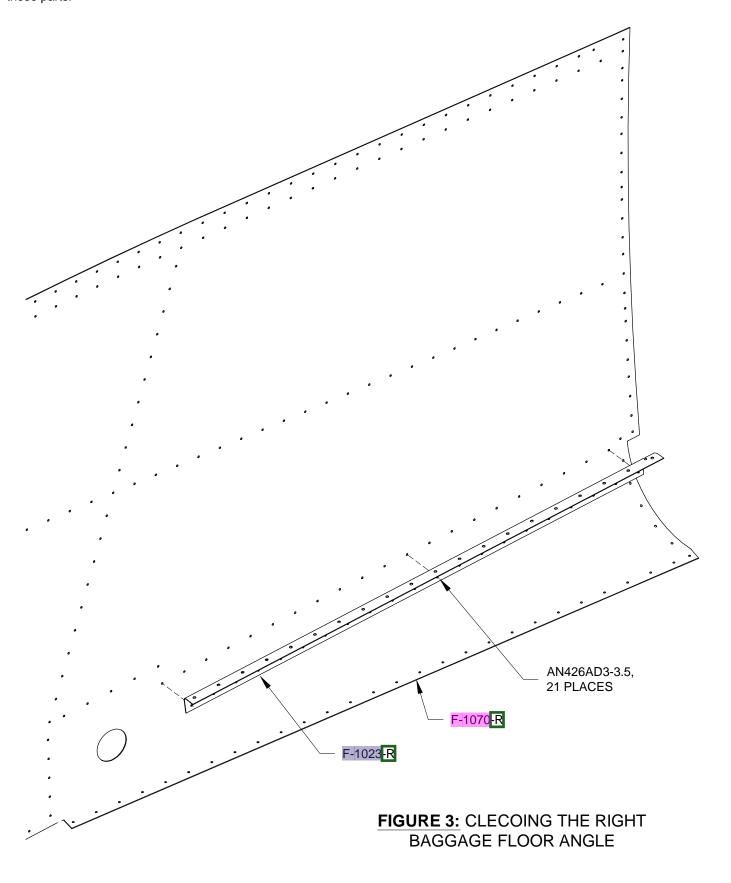


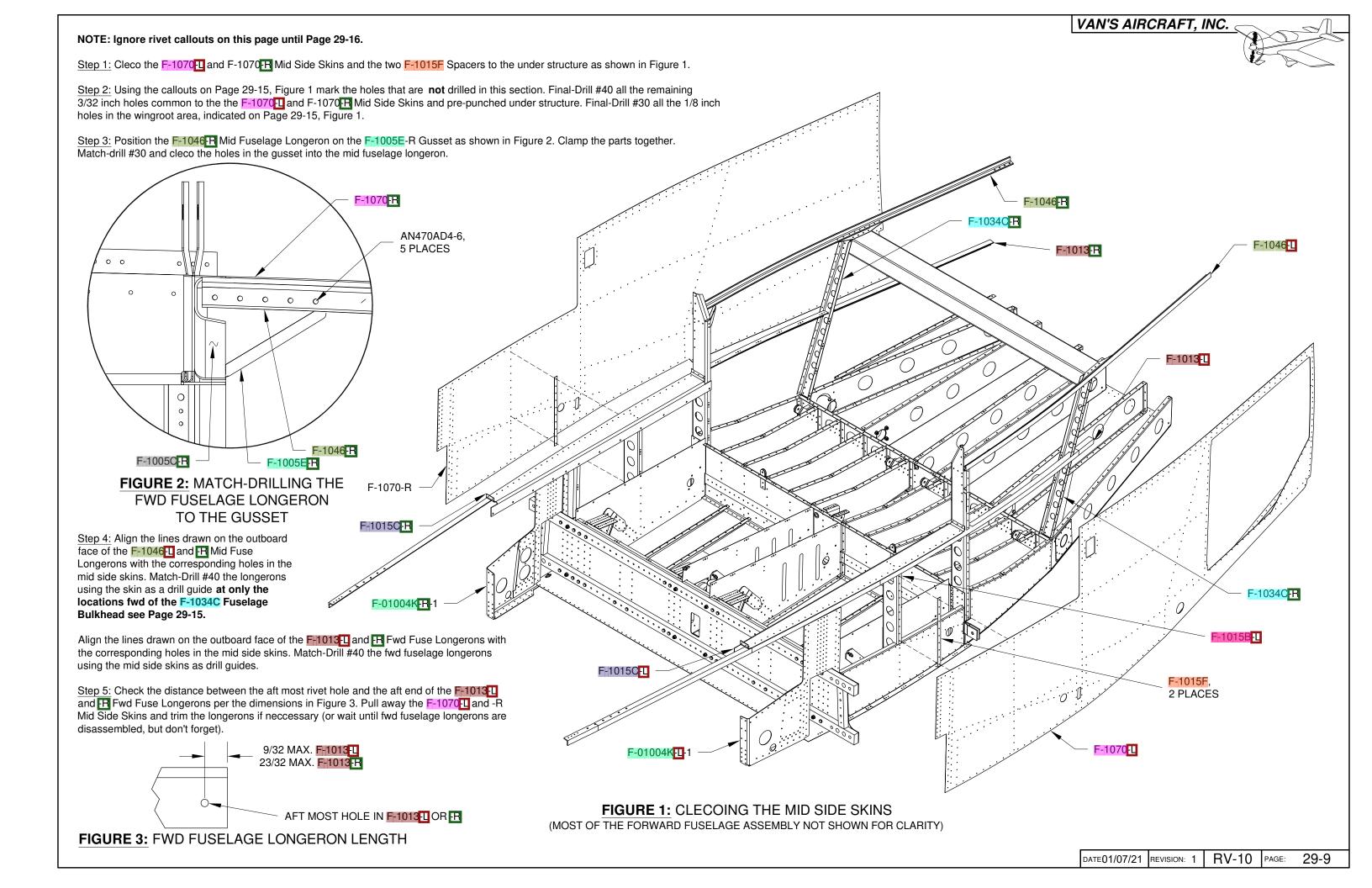
Step 2: Final-Drill #30 all the holes in the upper flange (flange not common to skin) of the F-1023-L and R Baggage Floor Angles. Deburr and dimple (for a flush head on upper side) these holes now.

Step 3: Cleco the F-1023-1 Baggage Floor Angle and F-10100A and F-10101 Baggage Door Shims to the F-1070-L Mid Side Skin as shown in Figure 2. Final-Drill #40 the holes common between these parts except the holes marked in Figure 2 do not drill.



Step 4: Cleco the F-1023-R Baggage Floor Angle to the F-1070-R Mid Side Skin as shown in Figure 3. Final-Drill #40 all the holes common between these parts.







Step 1: Create two wooden spacer blocks about an inch in length, similar to those shown in Figure 1. Insert the spacer blocks into the ends of the F-1041 Lwr Fuse Channel. Clamp the forward end of the channel into a vise and the aft end with a crescent wrench. After double checking the twist direction, use the crescent wrench to twist the lwr fuselage channel to match the dimensions given in Figure 2. Repeat this step to modify the F-1041 R Lwr Fuse Channel. The right channel is a mirror of the left.

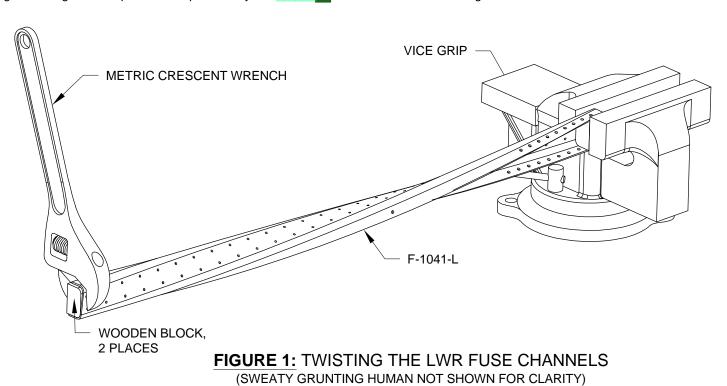
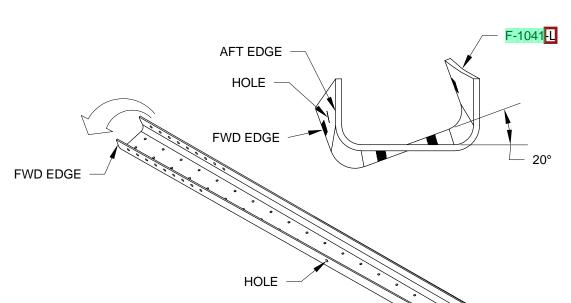


FIGURE 2: F-1041-L LWR FUSE CHANNEL TWIST DIRECTION AND FINAL DIMENSION

AFT EDGE



Step 2: After double checking the twist direction, use the same method as Step 1 to twist the F-1040-L Upper Fuse Channel to match the dimensions given in Figure 3. Repeat this step to modify the F-1040-R Upper Fuse Channel. The right upper fuse channel is a mirror of the left.

Step 3: Machine countersink the nutplate attach holes and rivet the nutplates in F-1040-L and R as shown in Figure 3.

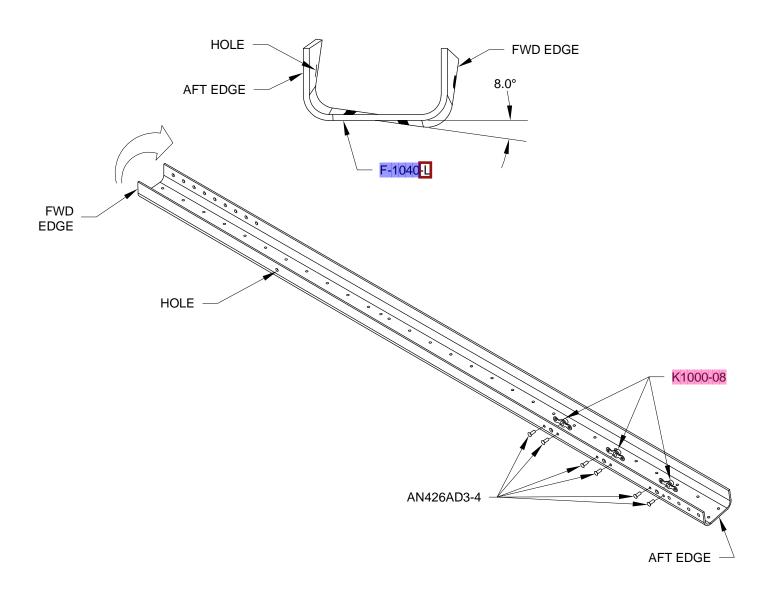
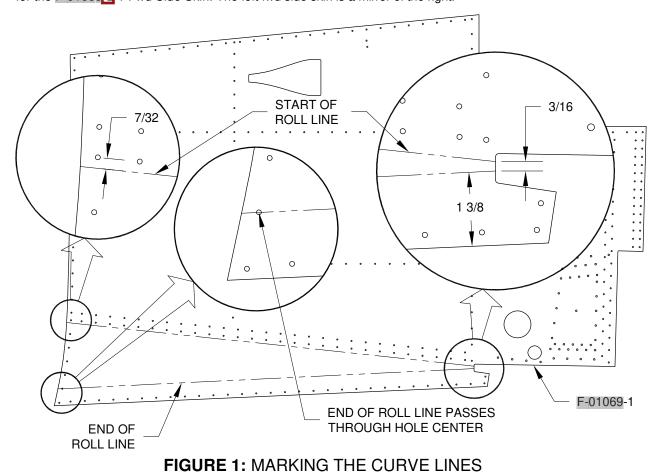


FIGURE 3: F-1040-L UPPER FUSE CHANNEL TWIST DIRECTION AND FINAL DIMENSIONS

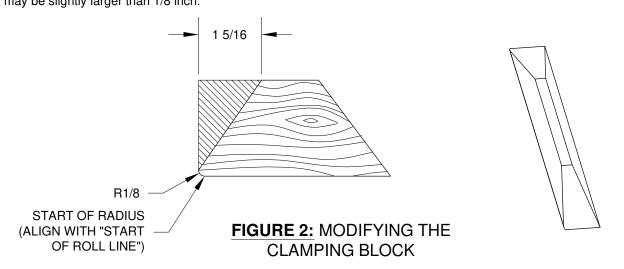
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Step 1: Remove the vinyl from the inside face of both F-01069-1 Fwd Side Skins. Using the dimensions given in Figure 1, draw the "Start of Roll Line" and the "End of Roll Line" on the F-01069 R-1 Fwd Side Skin. Repeat this step for the F-01069-L-1 Fwd Side Skin. The left fwd side skin is a mirror of the right.



Step 2: Modify the Clamping Block to match the dimensions given in Figure 2. Note the radius along the bottom edge of the clamping block. If using a normal 2x4 it is permissible to use the manufactured radius even though it may be slightly larger than 1/8 inch.



Step 3: Clamp the F-01069 R-1 Fwd Side Skin to a table, as shown in Figure 3, using the Clamping Block. Align the "Start of Radius" (see Figure 2) with the "Start of Roll Line" (see Figure 1). Be sure to align the "Start of Radius" not the edge of the block with the "Start of Roll Line"! Double check that you are about to bend the fwd side skin in the correct direction, the outboard face of the skin should be down against the table with the inboard face up.

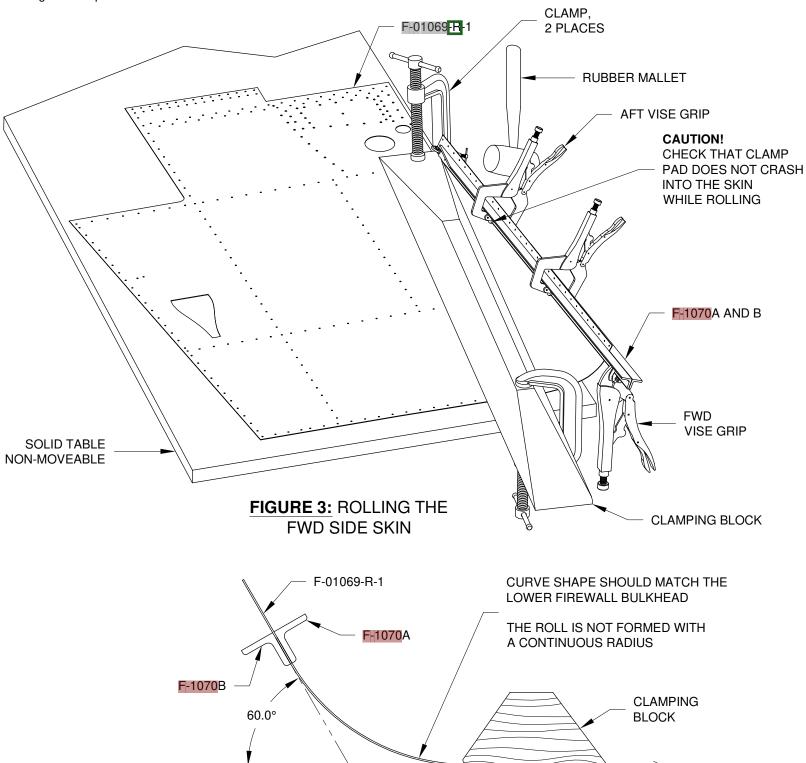
Align the flange edges of the F-1070A and B Roll Construction Angles with the "End of Roll Line" on the F-01069 FR-1 Fwd Side Skin, then clamp them in place as shown in Figure 3.

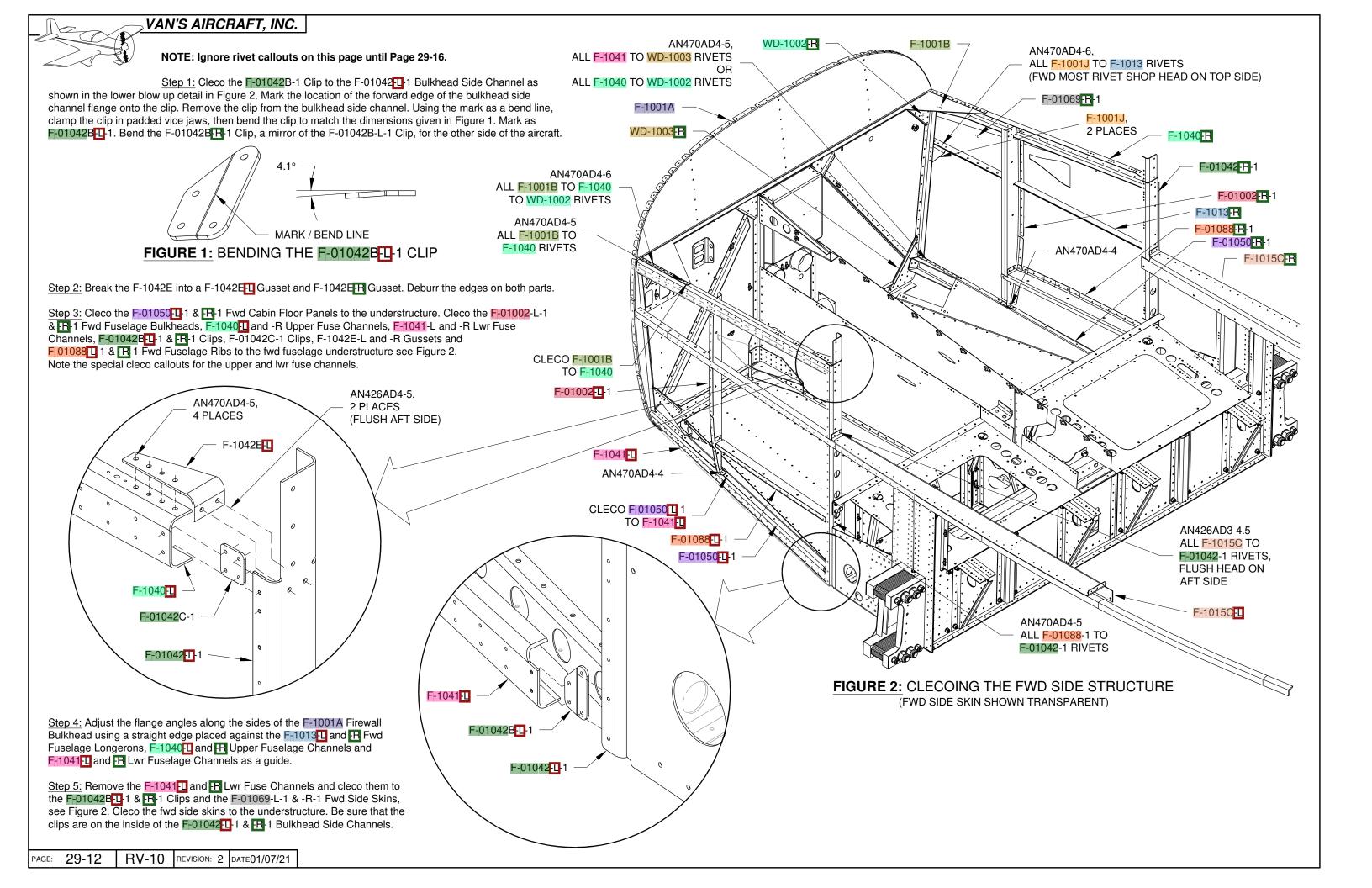
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Step 4: Roll the F-01069 FR-1 Fwd Side Skin into a cone that terminates in a sharp bend at the aft end of the "Roll Lines". The roll is created with the forward vice grip, and the sharp bend is naturally formed at the aft end (the sharp bend is finished in Step 5). Twist the F-1070A and B Roll Construction Angles with the forward vise grip and at the same time push the forward end down and inwards towards the

table. Use the extra roll construction angle which extends forward of the vise grip as a handle for your other hand. The twisting and pushing motion must be balanced. Twisting too much will create a crease along the edge of the roll construction angles; pushing to hard will create a sharp bend in the middle of the roll. Do not try to complete the roll in one iteration. The finished roll should look similar to Figure 4.

Step 5: Twist the -1070A and B Roll Construction Angles with the aft vise grip, then strike the roll construction angles with a rubber mallet to finish forming the sharp radius at the aft end of the roll.





Step 1: Match-Drill #40 the holes in the F-01069 1-1 & FR-1 Fwd Side Skins and the F-1040-L and -R Upper Fuse Channels common to the WD-1002 and IR Upper Firewall Brackets. Use a small block of wood to hold the flange on the firewall brackets tight against the channels. Match-Drill #40 the holes in the fwd side skins and the F-1041-L and FR Lower Fuse Channels common to the WD-1003-L and - Lower Firewall Brackets. Final-Drill #40 the remaining holes in the webs of the upper and lower fuse channels including the upper most row of holes in the upper channel not common to the fwd side skin. See Figure 1 and Figure 2.

Step 2: Final-Drill #40 the holes common between the F-1001A Firewall Bulkhead and the F-01069 1. 4 R-1 Fwd Side Skin. See Figure 1.

Step 3: Flush the forward ends of the F-1013 1 and F Fwd Fuselage Longerons against the inside face of the F-01069-L-1 & -R-1 Fwd Side Skins, then clamp them to the F-1001J 1 and F Longeron Gussets. Match-Drill #40 the holes common between the fwd side skins and the fwd fuselage longerons. With the clamps still in place, match-drill #30 as many of the holes as possible in the upper flange of the longeron gussets into the fwd fuselage longerons. Cleco, remove the clamps, and finish match-drilling the remaining holes.

Step 4: Final-Drill #30 the holes common between the F-01042-L-1 & FR-1 Bulkhead Side Channels and the F-1042E-L and -R Gussets. Final-Drill #30 the holes in the gussets into the upper flange of the F-1040 1 and 1 Upper Fuse Channels. See Page 29-12, Figure 2.

Step 5: Final-Drill #40 the holes common between the forward flange of the F-1015C and R Mid Cabin Decks and the F-01042-1-1 & FR-1 Bulkhead Side Channels. See Figure 2.

Step 6: Match-Drill #30 the hole in the lower tab of the F-01002-1-1 & FH-1 Fwd Fuselage Bulkheads into the upper flange of the F-1041 and R Lwr Fuselage Channels. See Figure 2.

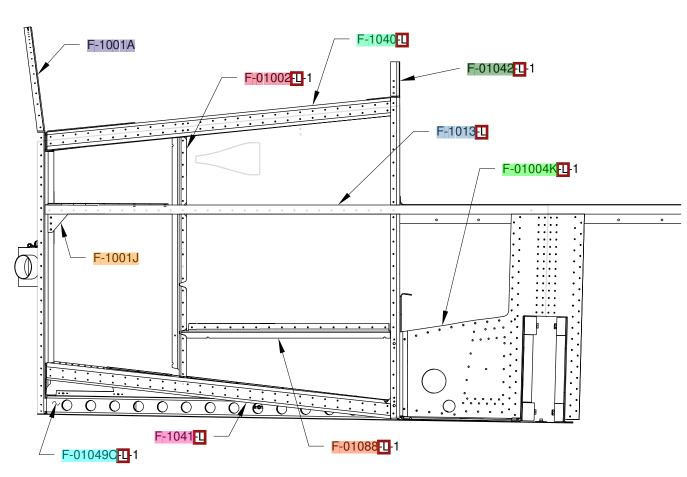


FIGURE 1: DRILLING THE F-01069-1-1 & FR-1 FWD SIDE SKINS (FWD SIDE SKIN SHOWN TRANSPARENT)

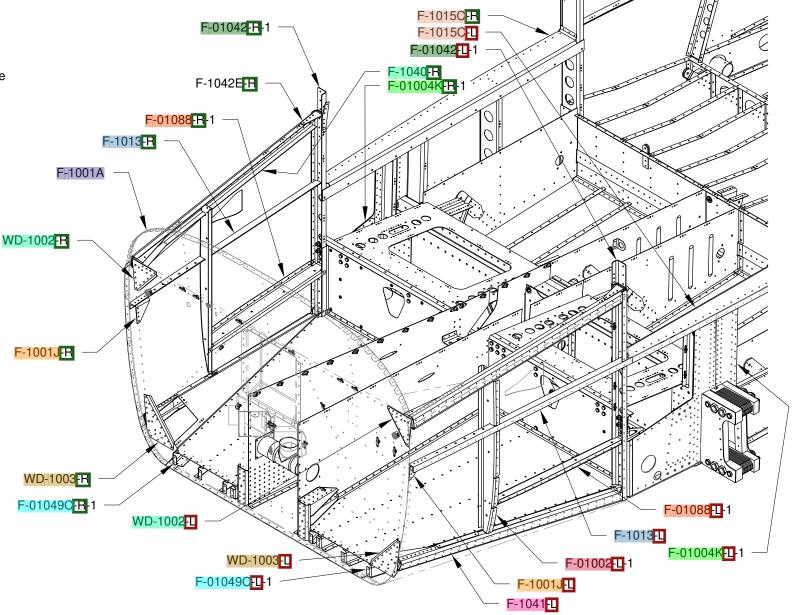
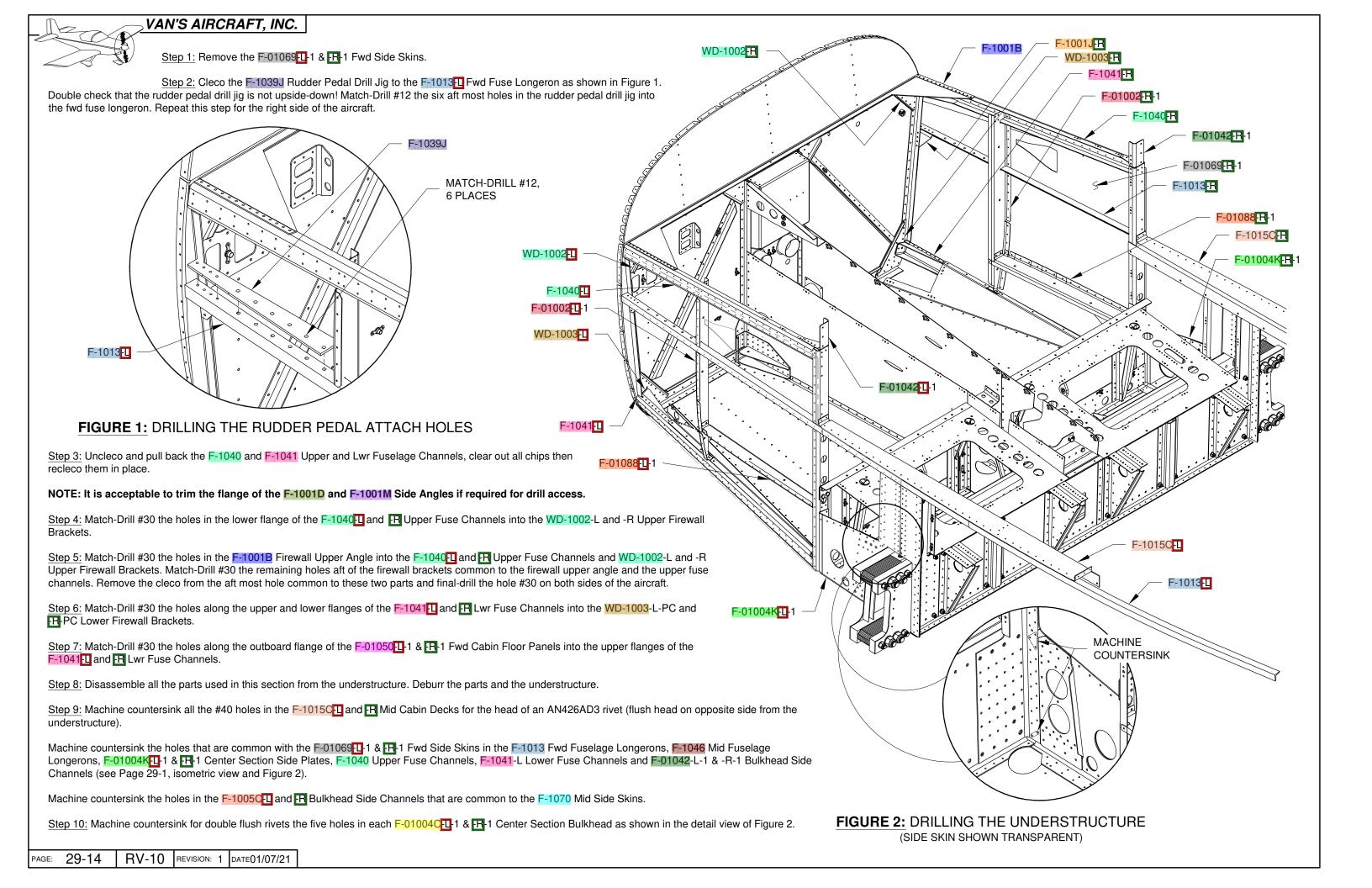


FIGURE 2: DRILLING THE UNDERSTRUCTURE (FWD SIDE SKIN SHOWN TRANSPARENT)

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Step 1: Dimple the holes in the F-1001A Firewall Bulkhead, F-01002-1-1 & -R-1 Fwd Fuselage Bulkheads and F-01088-L-1 & -R-1 Fwd Fuselage Ribs that are common to the F-01069-1-1 & -R-1 Fwd Side Skins.

Dimple the single hole in the forward tab of the F-01088 1 -1 & FR-1 Fwd Fuselage Ribs.

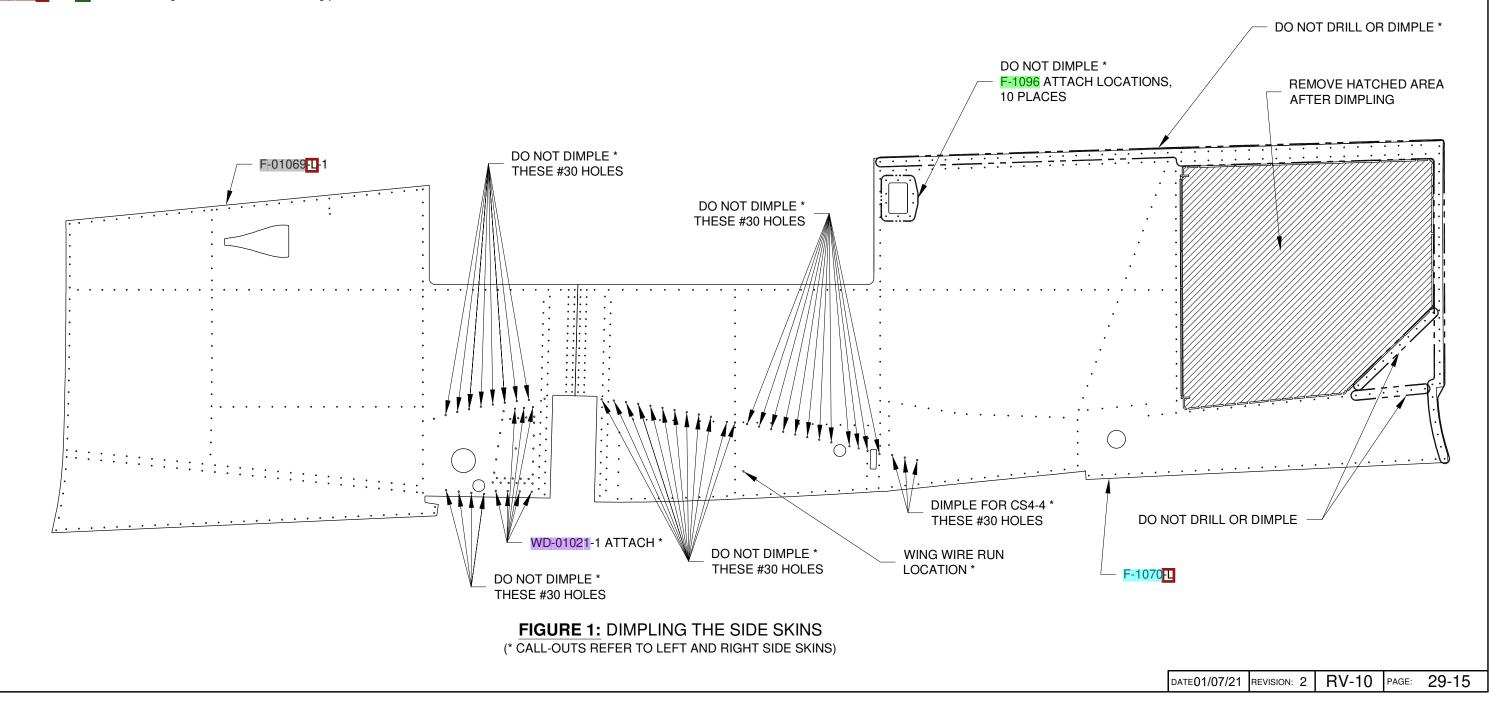
Dimple the holes in the F-1015B Foot Well Rib Intercostals, F-1015F Spacers, F-1034C Fuselage Bulkheads, F-1023 Baggage Floor Angles and F-10100A and F-10101 Baggage Door Shims (note the shims orientation and the holes **not** to be dimpled on Page 29-8, Figure 2) holes that are common to the F-1070 Mid Side Skins.

Step 2: Using the callouts in Figure 1 dimple the F-01069-1-1 & IR-1 Fwd Side Skins and the F-1070 Mid Side Skins.

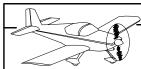
Step 3: Remove the hatched area from the baggage door area on the F-1070 Mid Side Skin as shown in Figure 1.

Step 4: Enlarge the wing wire run location in the F-1070 and Mid Side Skins (see Figure 1) for a snap bushing that will accommodate the wires and pressure lines coming from the wing. Deburr, then install a snap bushing in the wing wire run hole. Because of its custom size the snap bushing is not provided in the kit but can be purchased through Van's Aircraft Accessory Catalog. If this hole is not utilized leave it open.

Step 5: Check that all parts worked with in this section have been deburred. Prime the F-1013-1 and FR Fwd Fuse Longerons and the F-1046-1 and FR Mid Fuse Longerons. Prime the remaining parts if desired.



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Step 1: Modify the empennage bucking bar created on Page 9-12, Step 3 for use in the rest of this section. See Figure 1.

Step 2: Rivet the F-1034B Seat Back Brace to the F-1034C and F Fuselage Bulkheads per the callouts on Page 29-7, Figure 1. Rivet the seat back brace, F-1034E Seat Back Brace Gusset, F-1046 Mid Fuse Longeron and F-10102B Baggage Door Seal Angle together per the callouts on Page 29-6, Figure 2. Rivet the F-10102A Baggage Door Seal Angle to the mid fuse longeron per the callouts on Page 29-6, Figure 2.

Rivet the seat back brace and seat back brace gusset to the F-1046-R Mid Fuse Longeron together per the callouts on Page 29-7, Figure 1.

Step 3: Rivet the F-1046-L Mid Fuse Longeron to the F-1005E-L Gusset. Rivet the F-1046-R Mid Fuse Longeron to the F-1005E-R Gusset. Rivet callouts are on Page 29-9, Figure 2.

Step 4: Cleco the F-01002-1-1 & -R-1 Fwd Fuselage Bulkheads, F-1040 Upper Fuse Channels, F-1041 Lwr Fuse Channels and F-1042E Gussets together and to the understructure.

Step 5: Rivet the upper flange of the F-1040 Upper Fuse Channels to the F-1001B Firewall Upper Angle and WD-1002 Upper Firewall Brackets. Rivet the lower flange of the upper fuse channels to the upper firewall brackets. Rivet both the upper and lower flanges of the F-1041 Lwr Fuse Channels to the WD-1003 Lower Firewall Brackets. Rivet callouts are on Page 29-12, Figure 2.

Step 6: Slip the F-1013 Fwd Fuse Longerons into place, then cleco them to the F-1001J Longeron Gussets. Rivet the fwd fuselage longerons to the longeron gussets. See Page 29-12, Figure 2.

Step 7: Rivet the F-1042E Gussets to the F-1042 Bulkhead Side Channels and F-1040 Upper Fuse Channels per the callouts on Page 29-12, Figure 2.

Step 8: Rivet the lower tab on the F-01002-1-1 & -1 Fwd Fuselage Bulkheads to the upper flange of the F-1041 Lwr Fuse Channels. Rivet callouts are on Page 29-12, Figure 2.

Step 9: Rivet the F-1023-1 Baggage Floor Angle and the F-10100A and F-10101 Baggage Door Shims to the F-1070-1 Mid Side Skin per the rivet callouts on Page 29-8, Figure 2 (do not rivet the seven aft most holes marked **do not rivet**). Rivet the F-1023-1 Baggage Floor Angle to the F-1070-1 Mid Side Skin per the callouts on Page 29-8, Figure 3. Back riveting on a plate works well for this step.

Step 10: Cleco the F-01069-1-1 & H-1 Fwd Side Skins, F-01042B-1 and C-1 Clips, F-1015F Spacers, F-1070 Mid Side Skins to the fuselage assembly understructure. Check that the forward and mid side skins butt against one another properly.

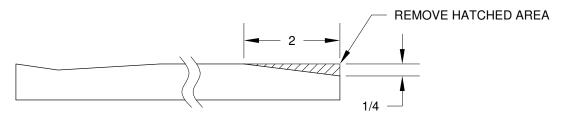
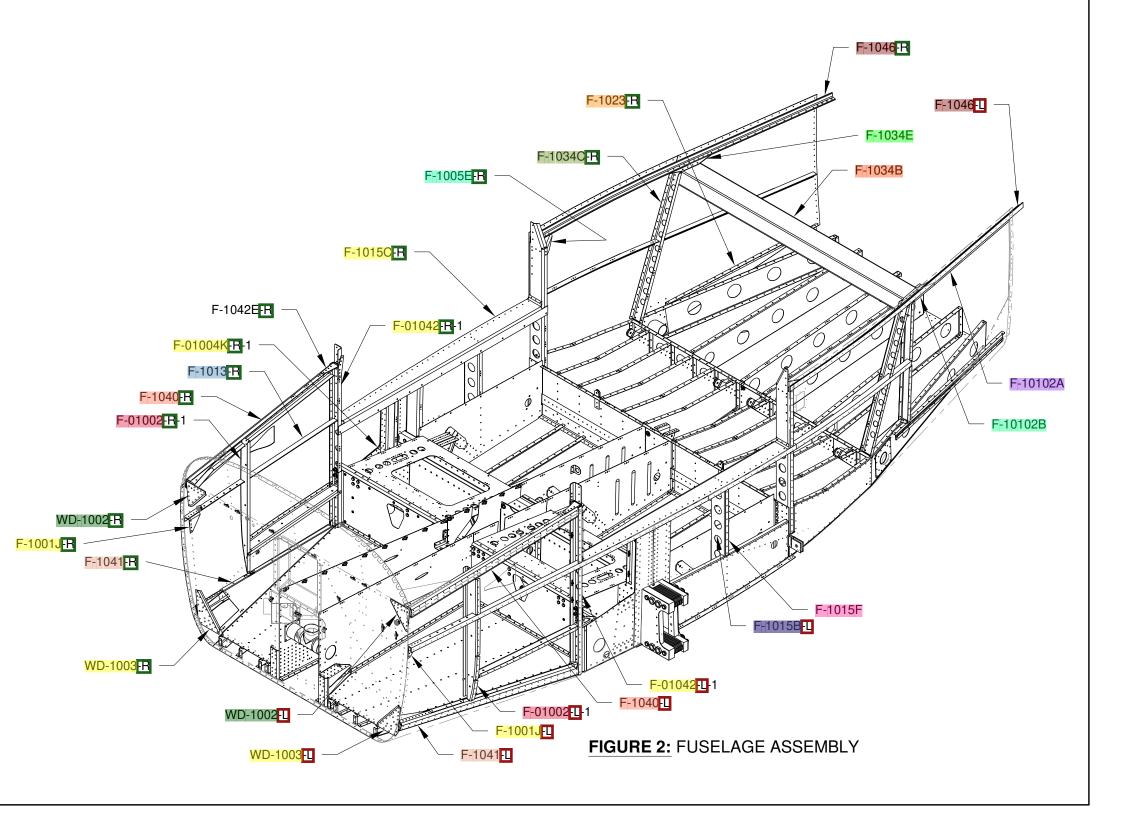


FIGURE 1: MODIFYING THE EMPENNAGE BUCKING BAR



Step 1: Start by riveting the double row of rivets on either side of the joint between the F-01069-1-1 & FR-1 Fwd Side Skins and the F-1070 Mid Side Skins. Rivet callouts are in Figure 1, Figure 2 and Page 29-18, Figure 1.

Rivet the F-1070 Mid Side Skins to the fuselage assembly understructure using the callouts in Figure 1 and Figure 2 (Only rivet the locations that have callouts).

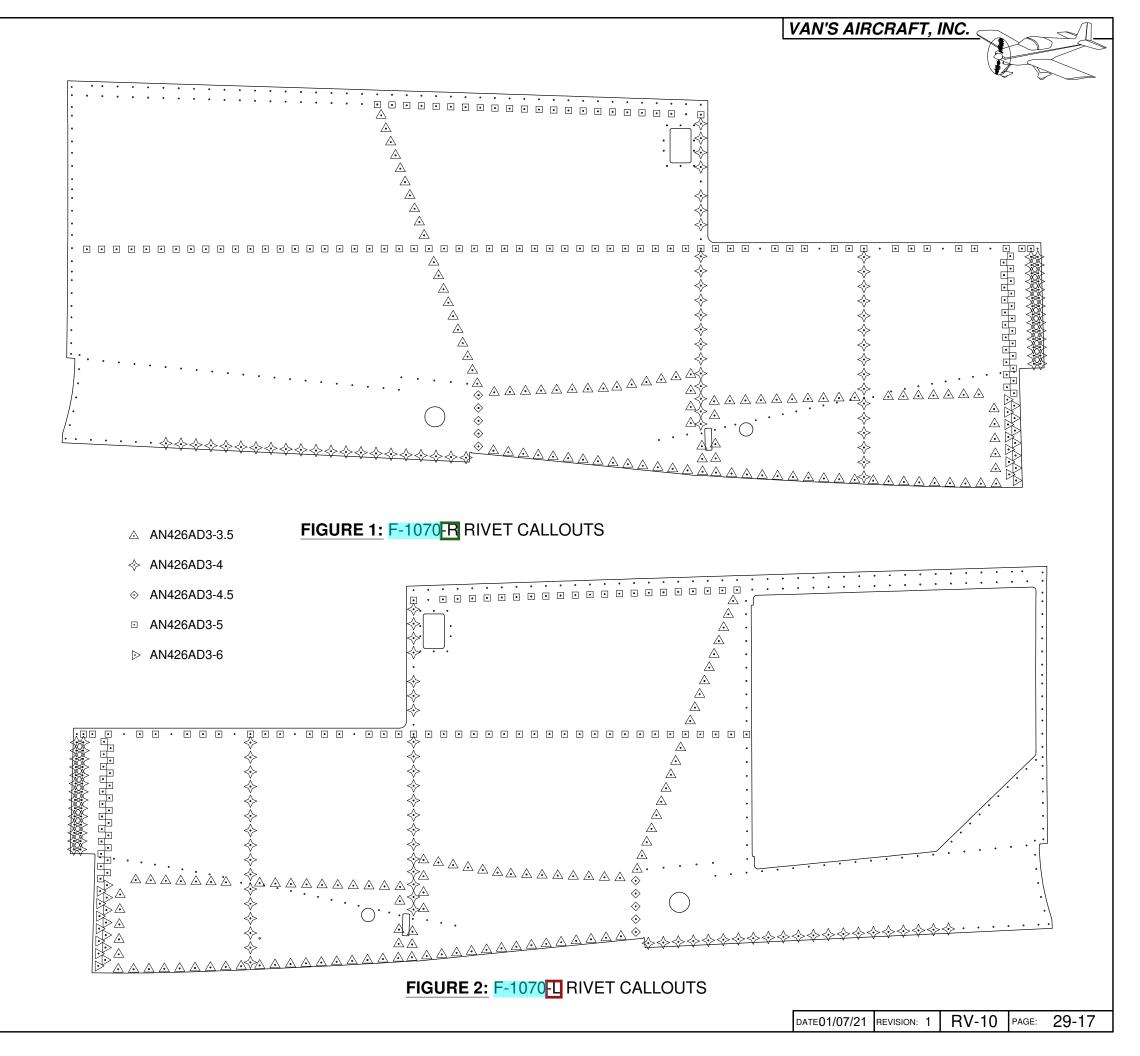
<u>Step 2:</u> Cleco the F-1015C Mid Cabin Decks to the understructure.

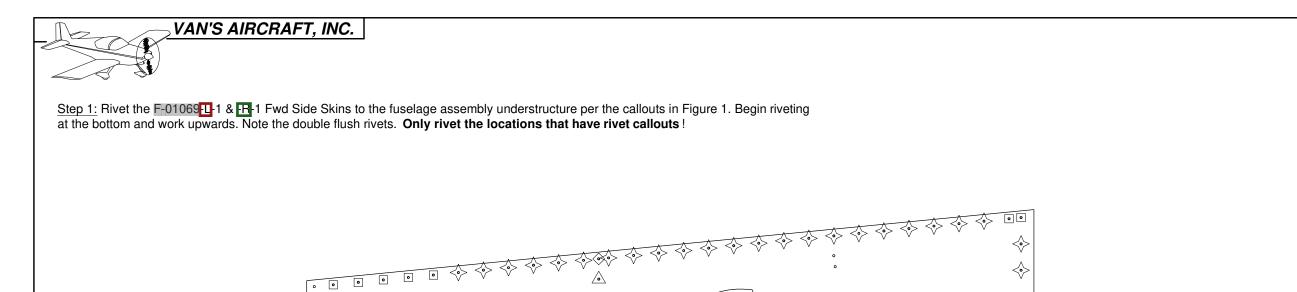
<u>Step 3:</u> Rivet the <u>F-1015C</u> Mid Cabin Decks to the <u>F-1005C</u> Bulkhead Side Channels per the callouts on Page 29-7, Figure 1.

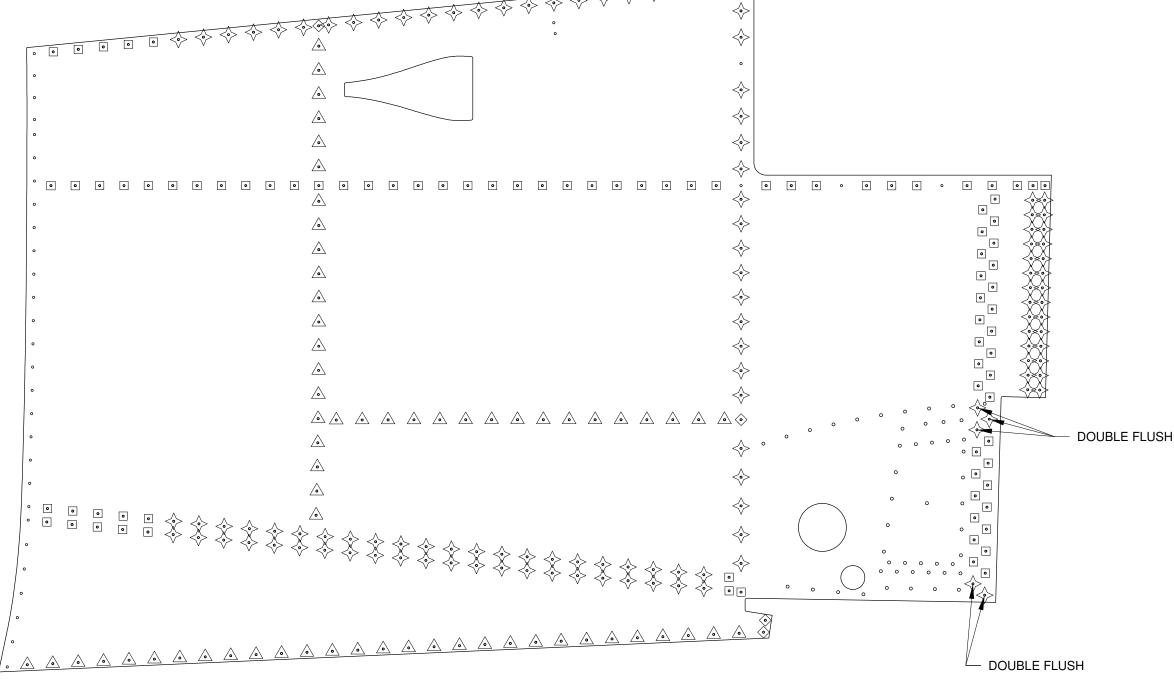
Rivet the mid cabin decks to the F-1015B Foot Well Rib Intercostals per the callouts on Page 29-7, Figure 1.

Rivet the mid cabin decks to the F-01042-1-1 & IR-1 Bulkhead Side Channels per the rivet callouts on Page 29-12, Figure 2

Rivet the mid cabin decks to the F-1013 Fwd Fuse Longerons per the callouts on Page 29-7, Figure 1.



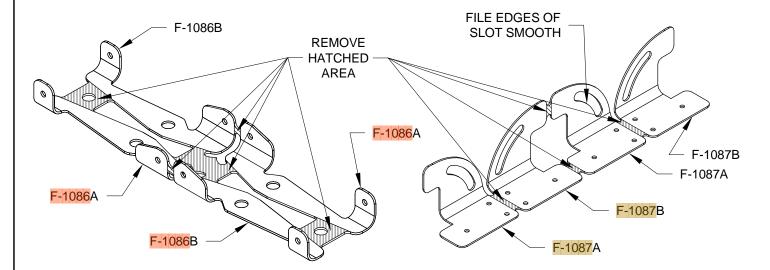




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Step 1: Cut apart the F-1086 Vent Bracket into two F-1086A and two F-1086B Vent Brackets as shown in Figure 1. Cut apart the F-1087 Vent Slide into two F-1087A and two F-1087B Vent Slides as shown in Figure 2.



Step 2: Cleco the F-1087A Vent Slide, F-1087B Vent Slide, F-1092 Vent Door Doubler and F-1093 Vent Door together as shown in Figure 3. Final-Drill #40 the holes common between these parts. This creates the Vent Door Subassembly. Repeat this step to create a second vent door subassembly.

FIGURE 2: CUTTING APART

THE VENT SLIDES

**FIGURE 1: CUTTING APART** 

THE VENT BRACKETS

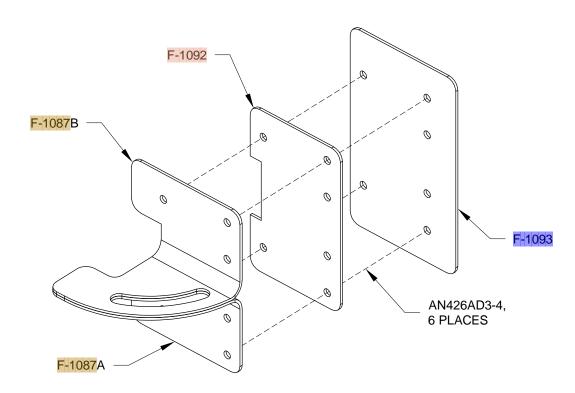


FIGURE 3: ASSEMBLING THE VENT DOOR

Step 3: File the edges of the slot smooth in the F-1087A and F-1087B Vent Slides. Check that an AN525-10R7 Screw smoothly slides along the entire length of the slot.

Step 4: Cleco the F-1086A and F-1086B Vent Brackets and the F-1096 Vent Doubler to the F-1070 Mid Side Skin as shown in Figure 4. Final-Drill #40 the holes common between these parts. Repeat this step for the right side of the aircraft.

Step 5: Machine countersink the holes in the F-1093 Vent Doors and F-1070-L and R Mid Side Skins to place the flush face on the outboard side of the aircraft. Disassemble the F-1086A and F-1086B Vent Brackets and F-1096 Vent Doublers from the F-1070 Mid Side Skins. Disassemble the Vent Door Subassemblies. Deburr and prime all parts if/as desired.

NOTE: A small block of wood is helpful to keep the tabs of F-1086A and F-1086B separated.

Step 6: Rivet the F-1096 Vent Doubler to the F-1070 Mid Side Skin as shown in Figure 4 leaving open the four holes that attach the F-1086A and F-1086B Vent Brackets. Rivet the vent brackets using these four holes. Repeat this step for the right side of the aircraft.

Step 7: Machine countersink one side of the VENT-00004 VENT KNOB for the set screw.

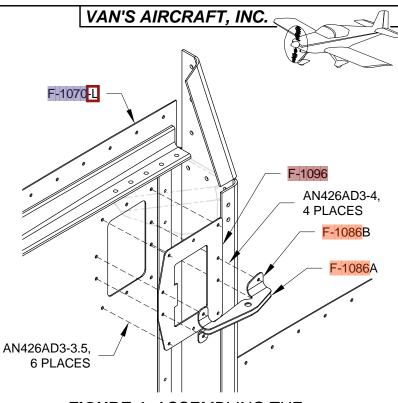


FIGURE 4: ASSEMBLING THE VENT DOUBLER AND BRACKETS

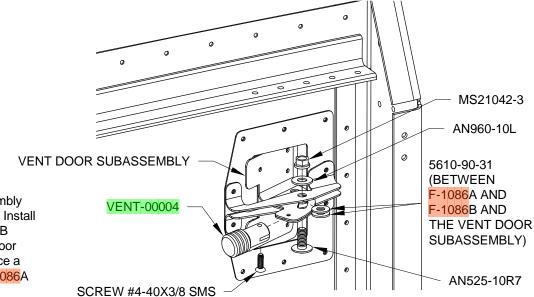
Step 8: Insert the tab portion of the Vent Door Subassembly fully into the slot of the VENT-00004 centered on the tab, orient the previously countersunk hole towards the bottom of the vent door as shown in Figure 4.

Step 9: Match Drill #43 the Vent Door Subassembly using the hole in the VENT-00004

Step 10: Tap 4-40, the VENT-00004 and Vent Door Assembly.

Step 11: Remove the VENT-00004 from the Vent Door Assembly.

Step 12: Rivet the F-1087A Vent Slide, F-1087B Vent Slide, F-1092 Vent Door Doubler and F-1093 Vent Door together as shown in Figure 3. Repeat this step to create a second vent door subassembly.



Step 13: Install the Vent Door Subassembly and VENT-00004 as shown in Figure 5. Install the hardware through the F-1086A and B Vent Brackets and the slot in the vent door subassembly as shown in Figure 5 (place a 5610-90-31 Nylon Washer between F-1086A and F-1086B and the Vent Door Subassembly).

Repeat this step for the right side of the aircraft.

FIGURE 5: INSTALLING THE VENT DOOR SUBASSEMBLY

(F-1005E-1 NOT SHOWN FOR CLARITY)

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Step 1: Install the F-01050 R-1 Fwd Cabin Floor Panel into the fuselage by inserting its forward inboard corner beneath the WD-1004 Nose Gear Tension Fitting, then slide its forward edge beneath the F-1001C Firewall Lower Channel as shown in Figure 1.

Lower the aft end of the fwd cabin floor panel into place and cleco the fwd cabin floor panel to the mating structures. Blind rivet the fwd cabin floor panel into place using the rivets shown in Figure 2.

Install the F-01050-11-1 Fwd Cabin Floor Panel in the same way.

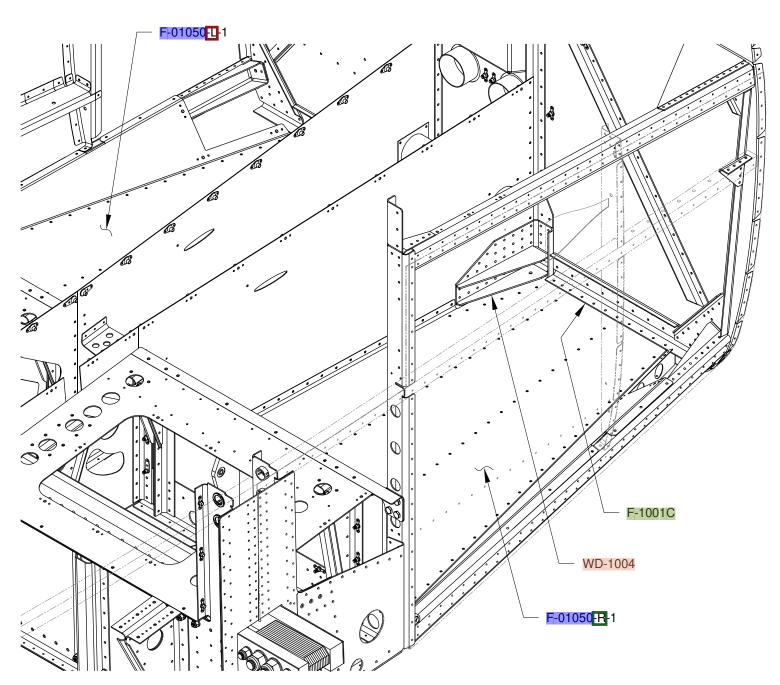


FIGURE 1: FWD CABIN FLOOR PANEL INSTALLATION



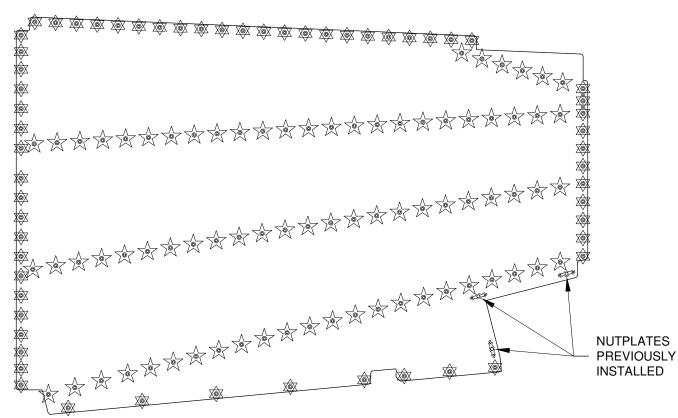


FIGURE 2: F-01050-1 RIVET CALLOUT

Step 1: Cleco the F-01004T Side Plate Doubler as well as the VA-00277 and VA-00278 Top and Bottom Drill Templates in place as shown in Figure 1.

For correct orientation, notice on the bottom drill template that the aft Ø.250 hole is closer to the edge than the forward Ø.250 hole. Cleco all the holes except the holes that correspond to the flanges of the landing gear mount (the holes within the Ø.250 holes in the drill templates).

Step 2: Enlarge the cutouts in the F-01004A-1 Center Section Bulkhead, F-01004K-1-1 & FR-1 Center Section Side Plates, F-01072-1 Fwd Fuse Bottom Skin, and F-1076 Mid Bottom Skin as required to clear the lower end of each WD-01021-1-1 & FR-1 Landing Gear Mount socket.

<u>Step 3:</u> Temporarily bolt the landing gear mount in place on the center section using the four bolts shown in Figure 2. Use a drilling lubricant such as "Boelube" on the shank of the bolts to ease installation, but be sure not to get any on the threads. Tighten the nuts to the correct installation torque.

NOTE: To enhance reflectivity, a piece of aluminum foil tape can be applied over the drill templates. The reflection of the drill bit will assist in keeping it perpendicular to the skin while drilling.

Step 4: Match-Drill #30 the three #30 holes of the F-01069 1-1 Fwd Fuse Side Skin (visible within the Ø.250 holes in the top drill template) into the upper side flange of the WD-01021 1-1 Landing Gear Mount. Be sure to keep the bit perpendicular to the side of the fuselage while drilling, and use a drilling lubricant such as 'Boelube' when drilling steel.

Step 5: Match-Drill #30 the four #30 holes of the F-01069 1-1 Fwd Fuse Side Skin (visible within the Ø.250 holes in the bottom drill template) into the lower side flange of the landing gear mount. Again, be sure to keep the bit perpendicular to the side of the fuselage while drilling, and use a drilling lubricant.

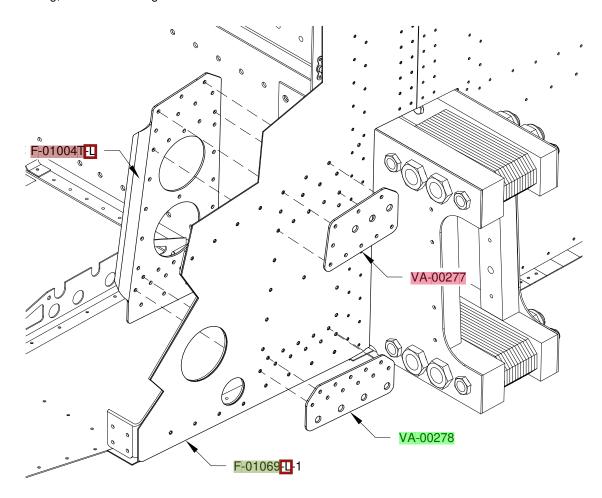


FIGURE 1: DRILL TEMPLATES

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Step 6: Final-Drill 1/4 one of the #30 holes (made in the previous step) in the lower side flange of the landing gear mount using the hole in the bottom drill template as a guide. Be sure to keep the bit perpendicular to the side of the fuselage while drilling. Insert an AN4 bolt to maintain alignment.

Step 7: Repeat the above step for the remaining three holes.

<u>Step 8:</u> Final-Drill 1/4 one of the #30 holes in the upper flange of the landing gear mount using the hole in the top drill template as a guide. Insert an AN4 bolt to maintain alignment.

Step 9: Repeat the above step for the remaining two holes.

Step 10: Remove the drill templates.

Step 11: Remove the landing gear mount and side plate doubler. Deburr all of the drilled holes and prime the parts if desired.

Step 12: Cleco, then rivet all of the holes in the side plate doubler except for the upper row of three holes as shown in Figure 2.

Step 13: Repeat all of the above steps for the right side of the aircraft.

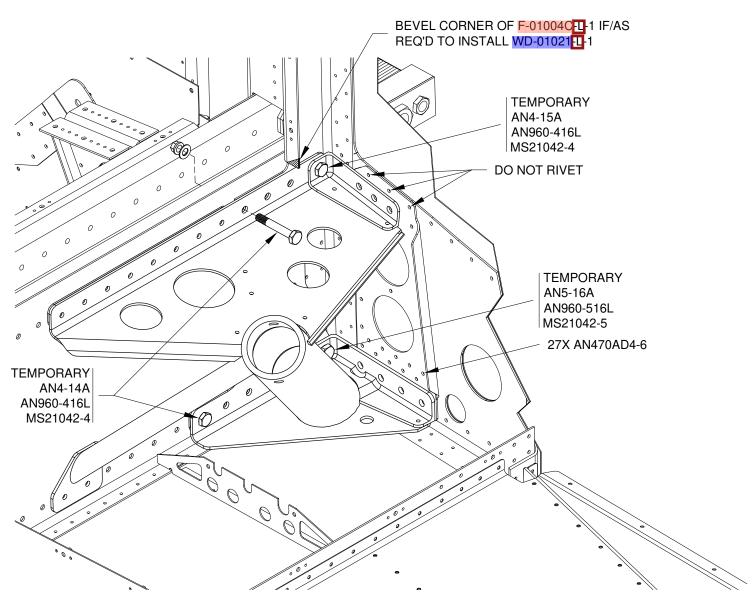
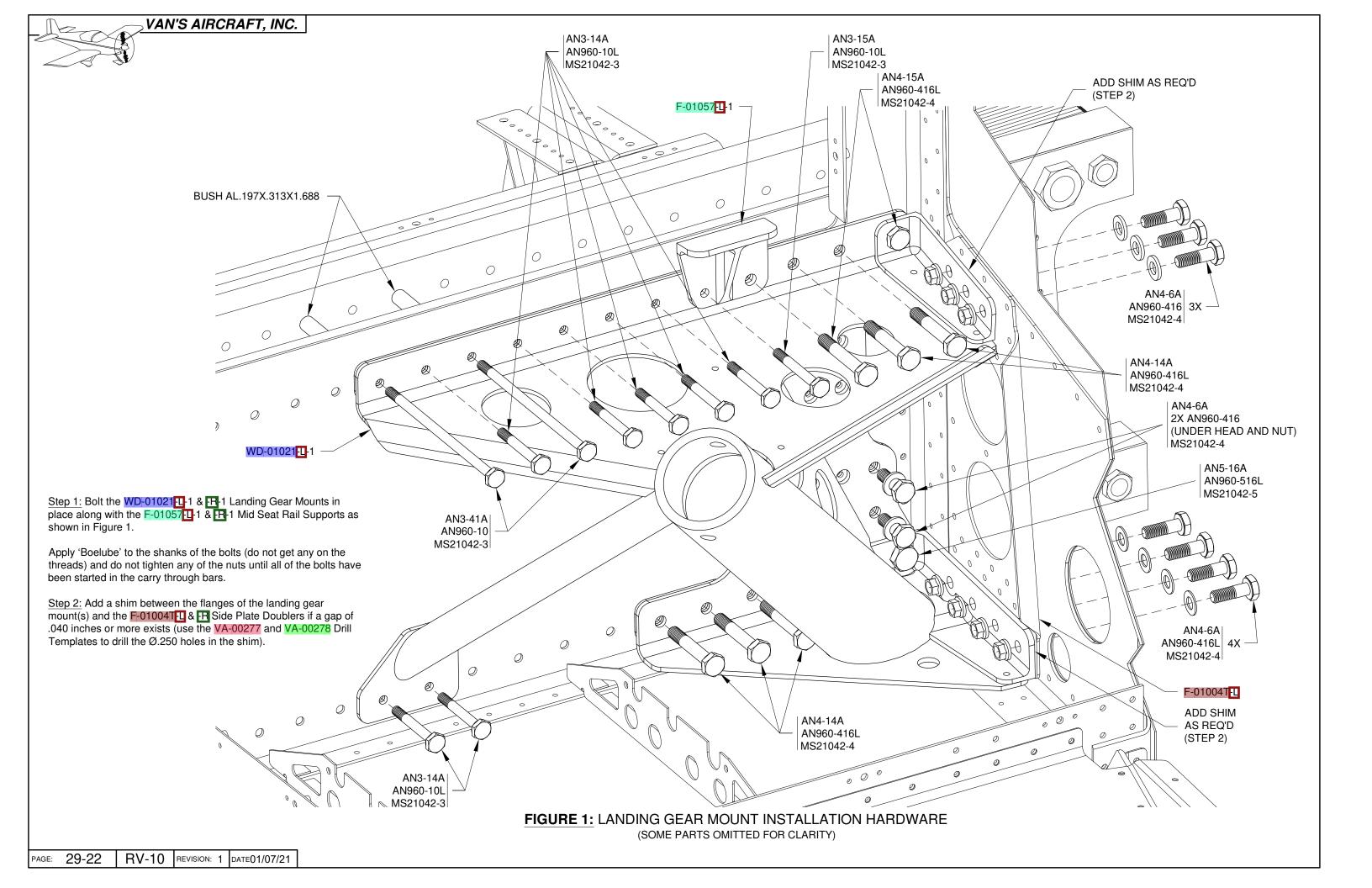
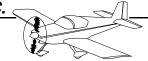


FIGURE 2: TEMP INSTALL LANDING GEAR MOUNT





Step 1: Cleco then rivet the F-01088-11-1 & FR-1 Fwd Fuselage Ribs to the F-01002-L-1 & -R-1 Fwd Fuselage Bulkheads, F-01042-11-1 & FR-1 Bulkhead Side Channels, and F-01069-L-1 & -R-1 Fwd Side Skins per the rivet callouts in Figure 1.

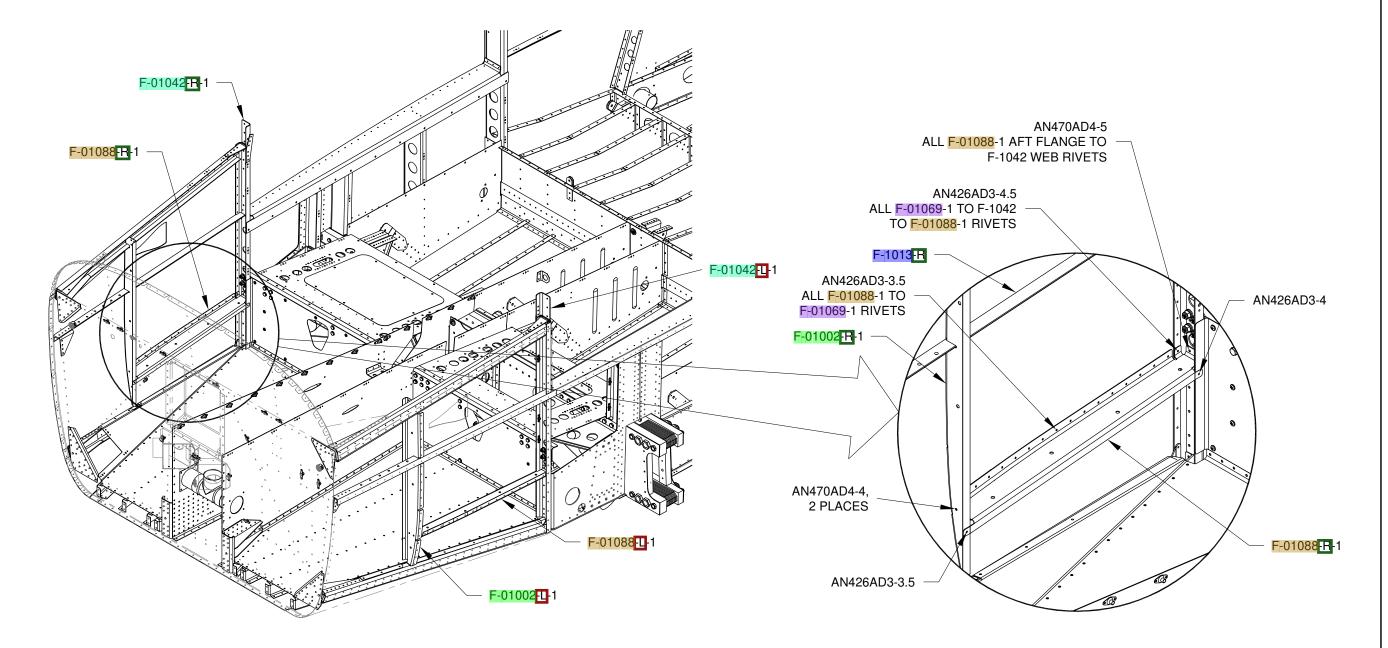


FIGURE 1: RIVETING THE FWD FUSELAGE RIBS (FWD SIDE SKIN AND FIREWALL SHOWN TRANSPARENT)

