

## VAN'S AIRCRAFT, INC.

**RV-12** 

REVISION: 3

PAGE 24-02

DATE: 08/29/16

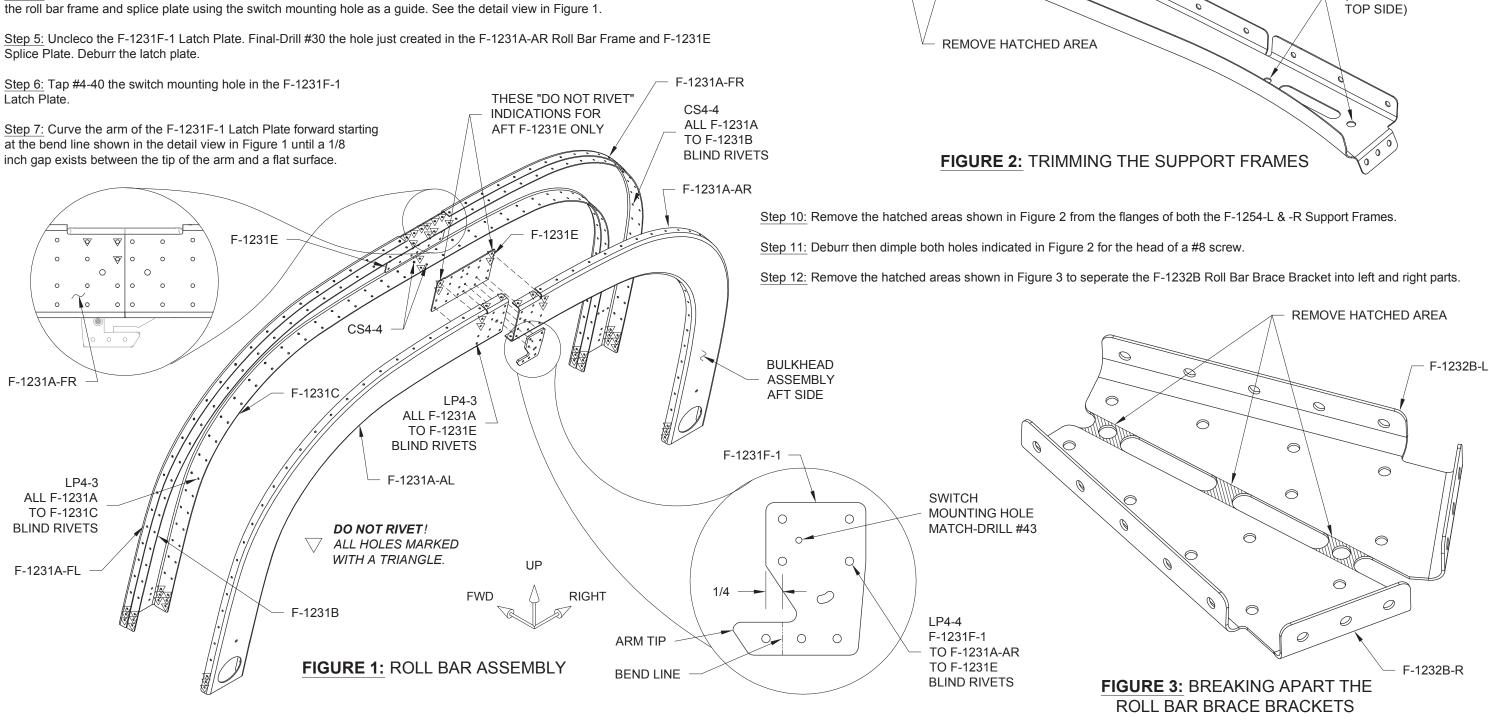
Step 1: Study Figure 1 to determine the forward edge, top and bottom of the F-1231B & C Roll Bar Straps. Run the roll bar straps back and forth over the edge of a table to add a curvature to the parts. Be careful not to let the parts kink across the rivet holes. The curve does not have to be the final installed shape but

enough to allow easy assembly of the roll bar. Deburr the edges of all parts used to create the Roll Bar Assembly. Cleco all of the parts of the Roll Bar Assembly together as shown in Figure 1.

Step 2: Final-Drill #30 all #40 holes in the flanges of the F-1231A-FL, -FR, -AL & -AR Roll Bar Frames and F-1231B & C Roll Bar Straps.

Step 3: Disassemble the roll bar parts, then machine countersink the outer flanges of the F-1231A-FL, -FR, -AL and -AR Roll Bar Frames for the head of the rivets that will eventually lay underneath the canopy except holes common to the F-1231D Roll Bar Bases. Machine countersink the two holes on the inside lower center face of the roll bar that will get flush blind rivets. See Figure 1.

Step 4: Cleco the F-1231F-1 Latch Plate to the F-1231A-AR Roll Bar Frame and aft F-1231E Splice Plate. Match-Drill #43 a hole in the roll bar frame and splice plate using the switch mounting hole as a guide. See the detail view in Figure 1.



view in Figure 1.

the callouts in Figure 1 to create the Roll Bar Assembly.

CAUTION: Do not rivet the locations marked with a triangle in Figure 1 until later in the assembly process!

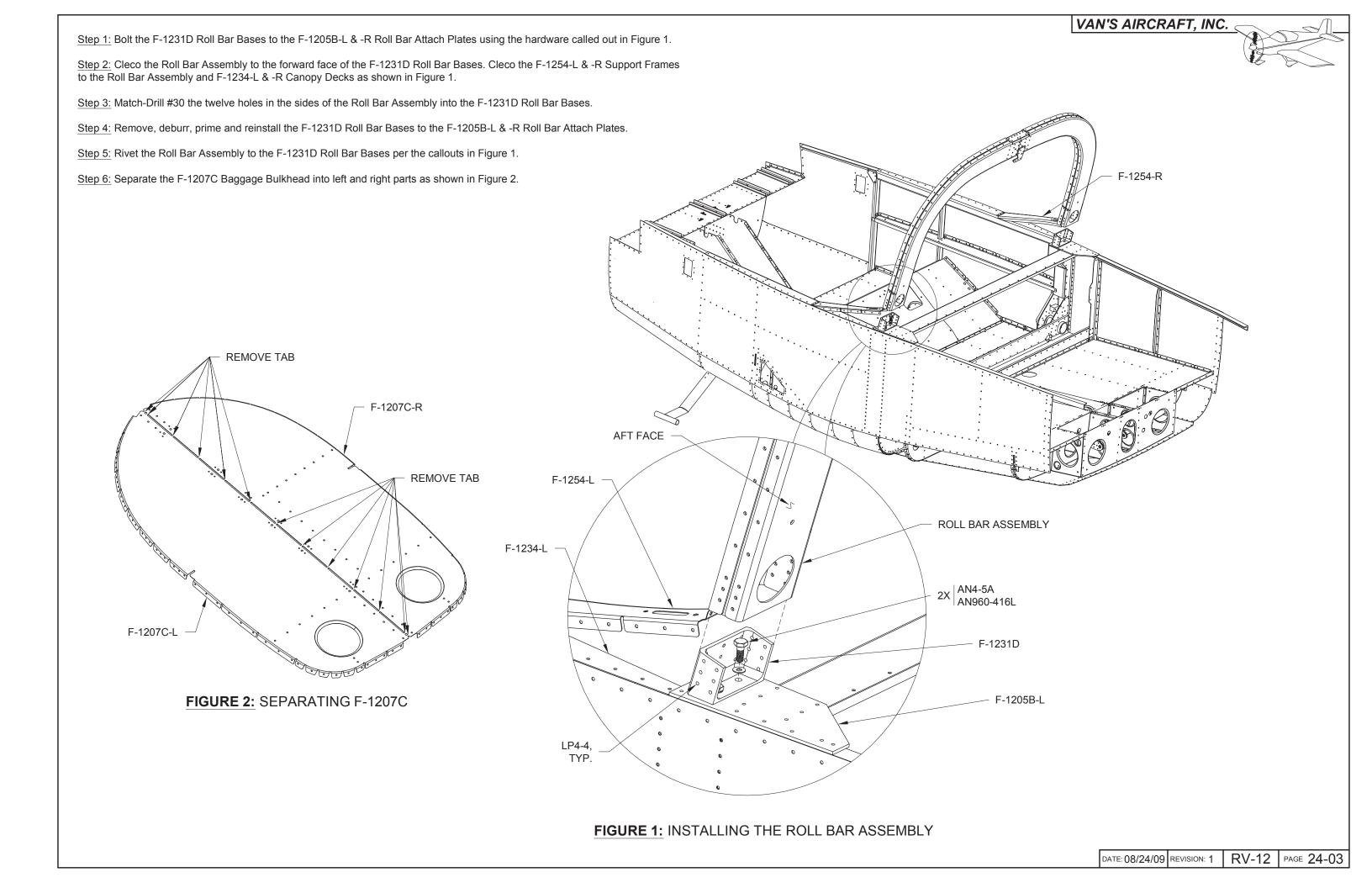
Step 8: Rivet the F-1231F-1 Latch Plate to the F-1231A-AR Roll Bar Frame and aft F-1231E Splice Plate as shown in the detail

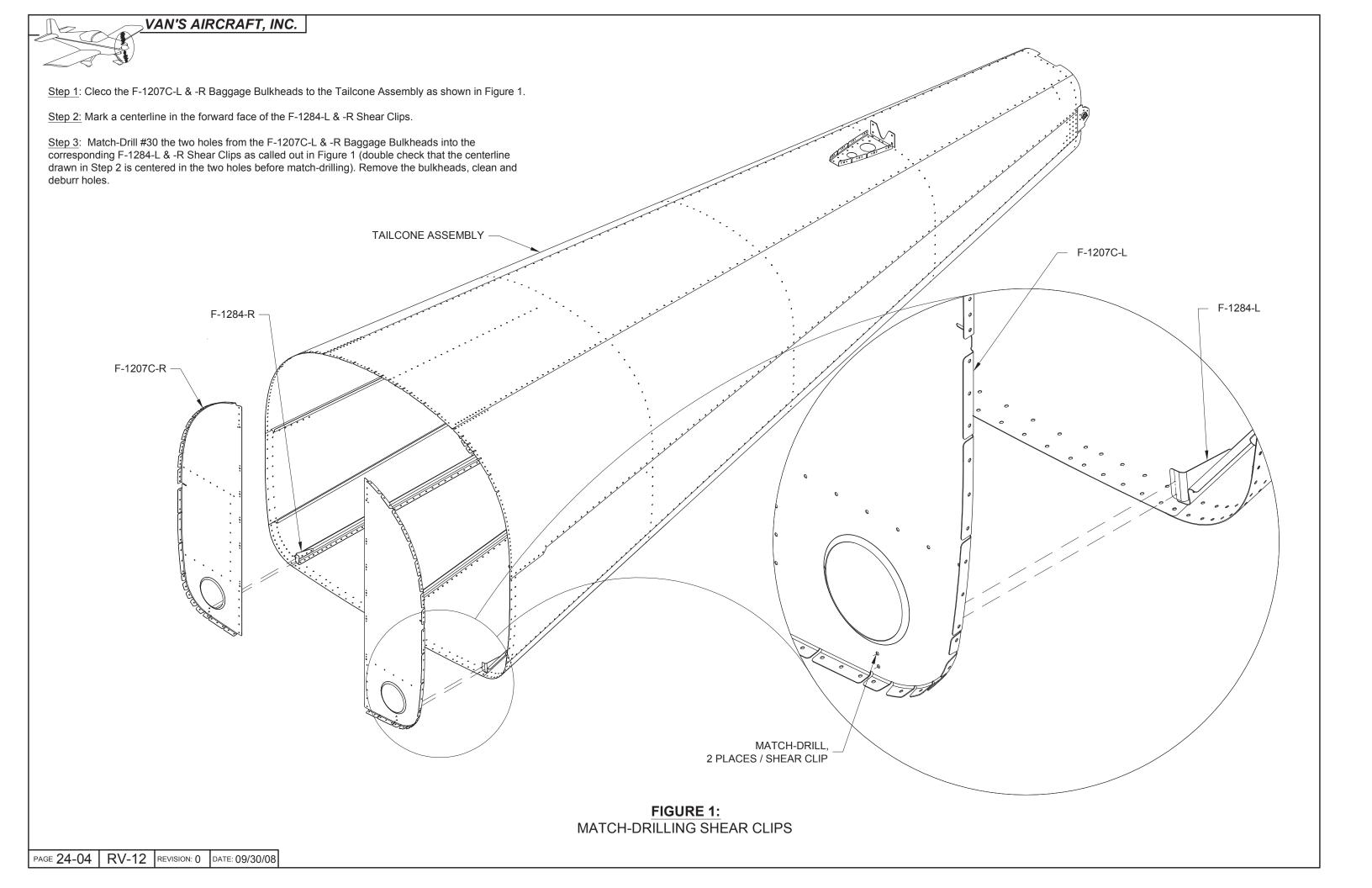
Step 9: Rivet the F-1231A-FL, -FR, -AL & -AR Roll Bar Frames to the F-1231B & C Roll Bar Straps and F-1231E Splice Plates per

F-1254-L

DEBURR THEN DIMPLE

(FLUSH HEAD ON





## CAUTION: Do not rivet any parts to the fuselage skins in this section!

Step 1: Dimple the nutplate attach holes (flush forward side) in the F-1207A Baggage Bulkhead, F-1207C-L & -R Baggage Bulkheads and F-1207D-L & -R Baggage Bulkhead Channels. See Figure 1.

<u>Step 2:</u> Flute the F-1207C-L & -R Baggage Bulkheads along the three long flanges below the longeron cutout to align the holes in the flanges with the holes in the F-1270 Fuselage Side Skins.

Step 3: Dimple the nutplates used in Figure 1.

Cleco then rivet the nutplates, F-1207A Baggage Bulkhead, F-1207C-L & -R Baggage Bulkheads and F-1207D-L & -R Baggage Bulkhead Channels together then cleco and rivet these parts to the F-1207B Baggage Bulkhead and F-1224-L & -R Baggage Floor as shown in Figure 1.

<u>Step 4:</u> Install the snap bushings into the F-1207D-L Baggage Bulkhead Channel per the callout in Figure 1.

Step 5: Cleco then rivet the F-1232A Roll Bar Brace to the F-1232B-L & -R Roll Bar Brace Brackets.

Cleco this assembly to the Roll Bar Assembly and the F-1207A Baggage Bulkhead.

Machine countersink the rivet holes in the upper side of the roll bar brace that attach to the Roll Bar Assembly.

Rivet the assembly to the Roll Bar Assembly and the baggage bulkhead per the callouts in Figure 1.

Step 6: Cleco then rivet the F-1207K Brace Angle to the F-1207C-R Baggage Bulkhead except the second hole from the inboard end that is also common to the F-1207J Attach Angle as shown in Figure 1 and Page 24-06, Figure 1.

