

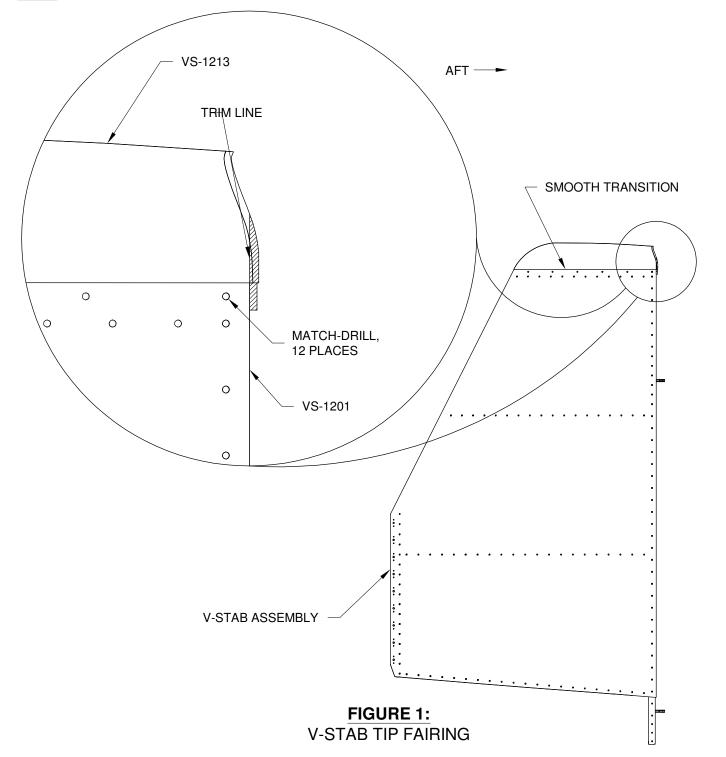
<u>Step 1:</u> Place the VS-1213 V-Stab Tip Fairing onto the V-Stab Assembly. The edge of the recessed area of the v-stab tip fairing must be flush against the entire top edge of the VS-1201 Main Skin as shown in Figure 1.

To resolve interference issues, recheck the recessed area measurement with the dimension given on Page 12-02, Figure 3. Remove the minimum amount of material necessary, within that dimension, to achieve a flush fit to the top edge of the main skin.

Step 2: With the VS-1213 V-Stab Tip Fairing in place, Match-Drill #30 the holes from the VS-1201 Main Skin into the v-stab tip fairing as shown in Figure 1. Cleco each hole before drilling the next.

<u>Step 3:</u> Make a smooth transition from the surface of the v-stab tip fairing to the surface of the VS-1201 Main Skin. Remove the v-stab tip fairing, sand the surface of the fairing where necessary, then check and repeat until the transition is smooth. Mark the fairing with a trim line that follows the aft edge of the VS-1201 Main Skin as shown in Figure 1.

Step 4: Trim the VS-1213 V-Stab Tip Fairing at the trim line from Step 3.



<u>Step 5:</u> Temporarily attach the Rudder Assembly to the V-Stab Assembly. Refer to Section 11, Page 2 for attachment instructions.

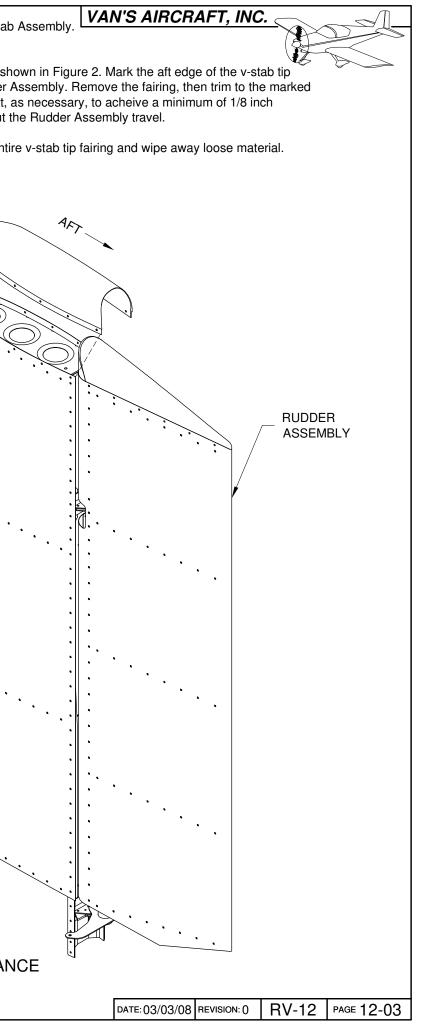
<u>Step 6:</u> Place the VS-1213 V-Stab Tip Fairing in position as shown in Figure 2. Mark the aft edge of the v-stab tip fairing to indicate any material that is within 1/8 of the Rudder Assembly. Remove the fairing, then trim to the marked areas to provide clearance for the Rudder Assembly. Repeat, as necessary, to acheive a minimum of 1/8 inch clearance but not more than 1/4 inch of clearance throughout the Rudder Assembly travel.

Smooth the trimmed edge with sandpaper, finish sand the entire v-stab tip fairing and wipe away loose material. Re-cleco in place.

V-STAB ASSEMBLY

VS-1213

FIGURE 2: TIP FAIRING CLEARANCE



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Step 1: Remove the Rudder Assembly from the V-Stab Assembly.

Step 2: Rivet the VS-1213 V-Stab Tip Fairing to the V-Stab Assembly using the rivets called out in Figure 1.

Step 3: Rivet the R-1206 Rudder Tip Fairing to the Rudder Assembly using the rivets called out in Figure 1.

NOTE: The completion of this section must be postponed until just prior to Section 32 since the F-1294A and F-1294B are shipped in the Finish Kit.

NOTE: For Step 4 refer to Page 11-02.

Step 4: Install the V-Stab Assembly to the Tailcone Assembly.

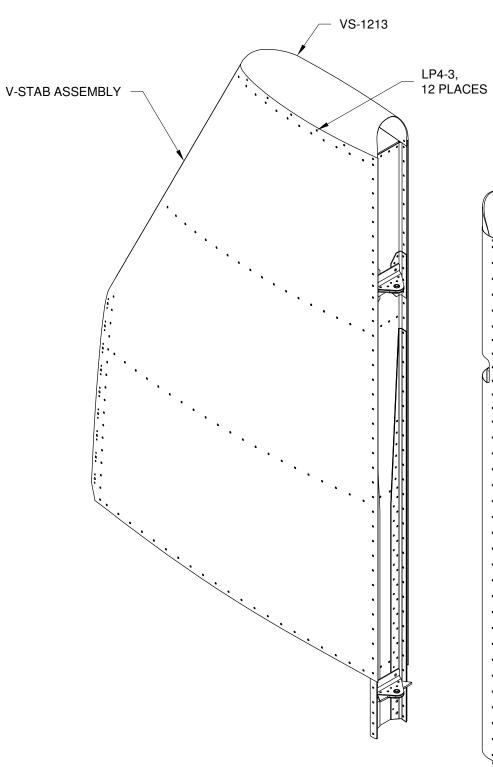
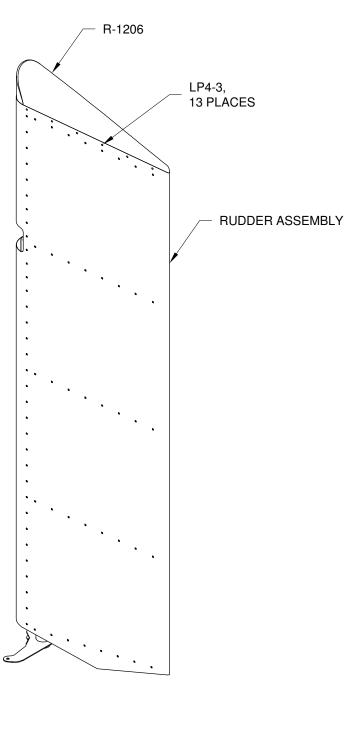


FIGURE 1: TIP FAIRING INSTALLATION





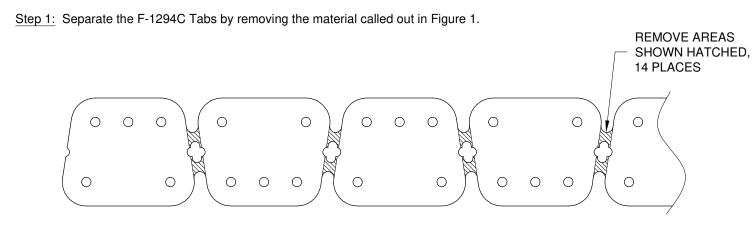
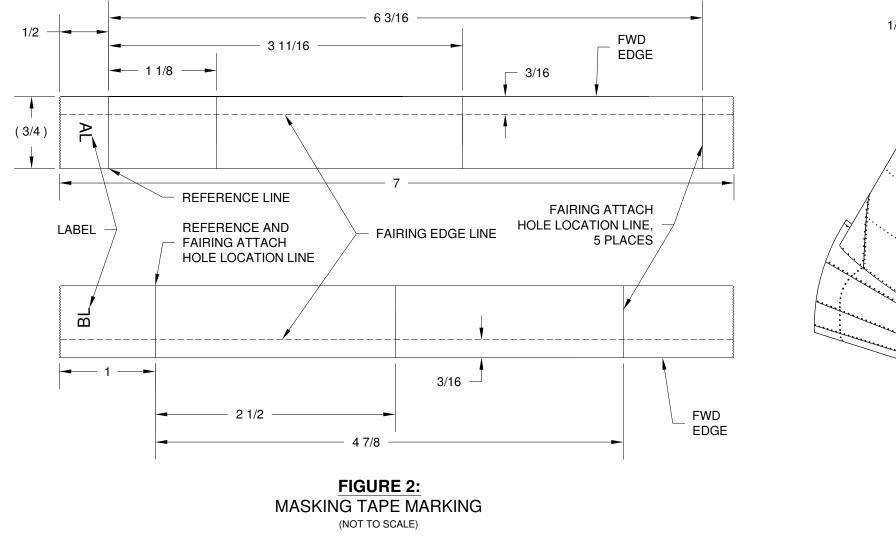


FIGURE 1: F-1294C TAB SEPARATION

Step 2: Mark two lengths of masking tape per dimensions in Figure 2. One will be the 'AL', which will be for the upper left half of the tailcone. The other will be the 'BL', which will be for the lower left half of the tailcone. Use a pen that makes dark lines.

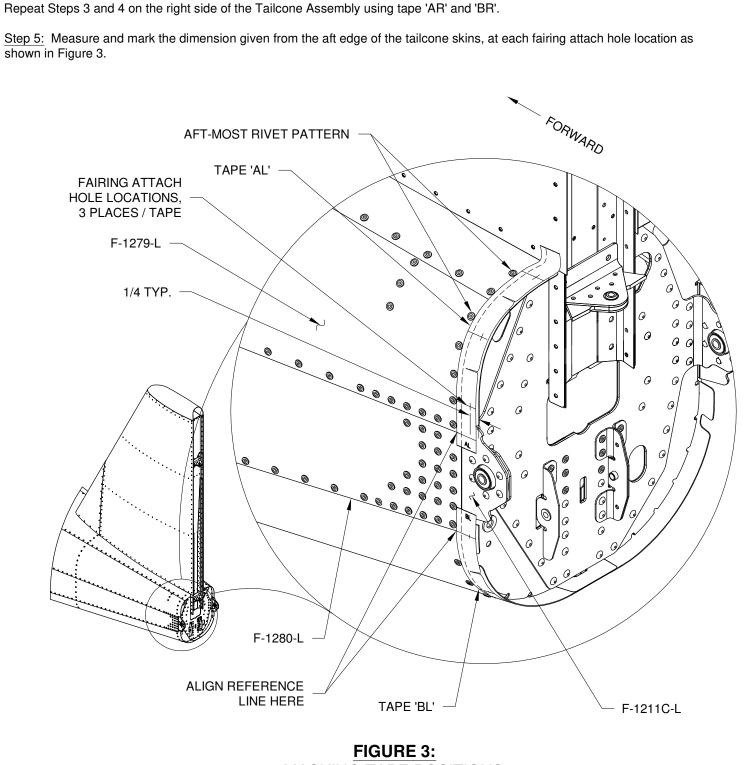
Mark two more pieces of masking tape as a mirror of the first two, label them 'AR' and 'BR' for the right side of the tailcone.



Step 3: Place the forward end of the reference line of tape 'AL' on the lower edge of the F-1279-L Upper Corner Skin. Align the forward edge of the masking tape along the manufactured heads of the aft-most rivet pattern on the tailcone as shown in Figure 3. Gather wrinkles in the aft edge of the tape between the fairing attach hole marks.

Step 4: Place the forward end of the reference line of tape 'BL' on the lower edge of the F-1280-L Side Skin. Align the forward edge of the masking tape along the aft-most rivet pattern on the tailcone as shown in Figure 3. Gather wrinkles in the aft edge of the tape between the fairing attach hole marks.

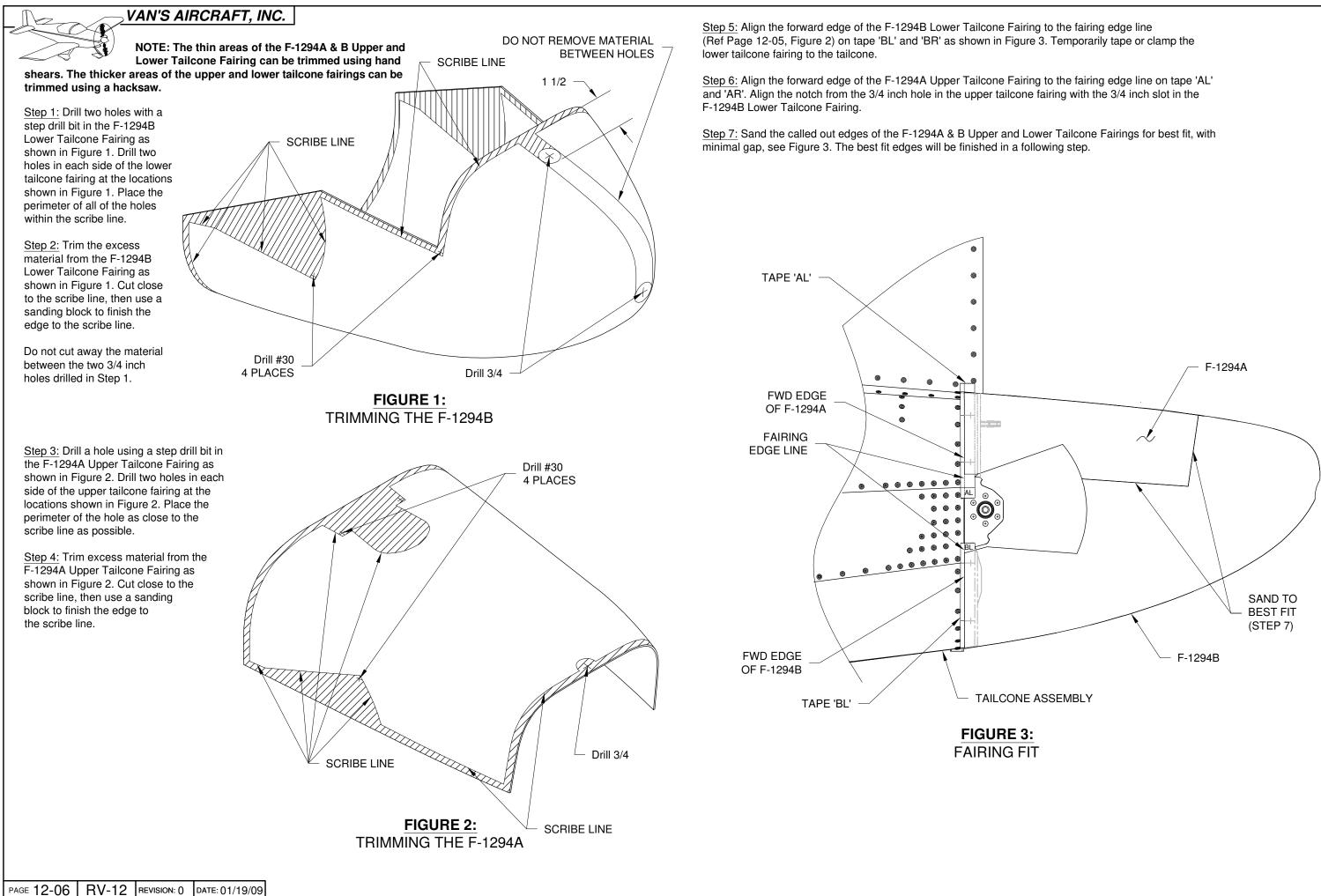
shown in Figure 3.

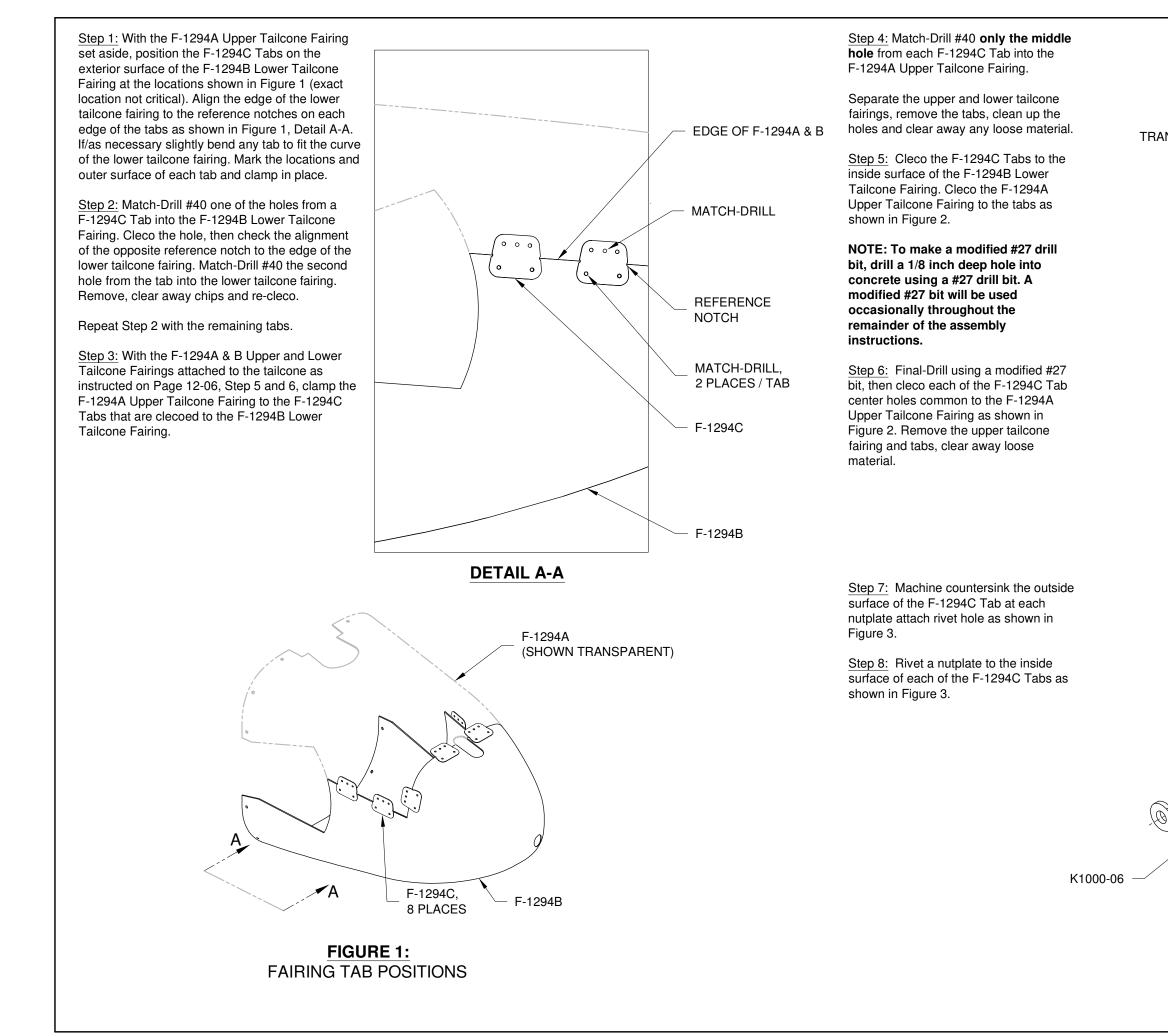


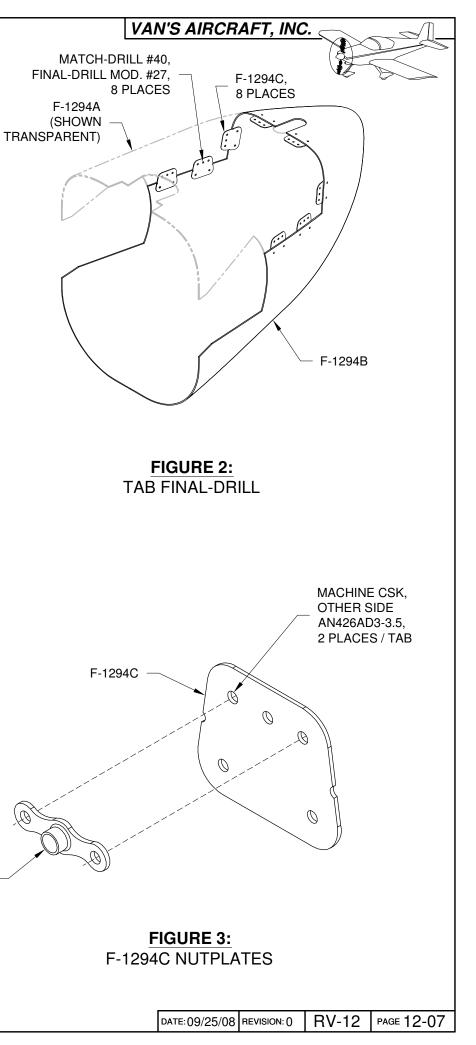
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MASKING TAPE POSITIONS

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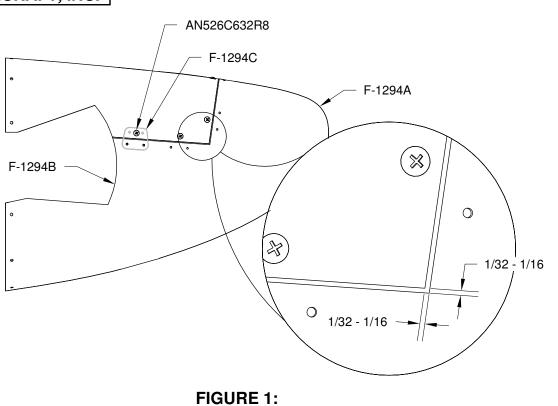






Step 1: Cleco the F-1294C Tabs to the F-1294B Lower Tailcone Fairing. Temporarily screw the F-1294A Upper Tailcone Fairing to the tabs as shown in Figure 1.

Step 2: Mark, separate, then sand an even gap between the mating edges of the F-1294A & B Upper and Lower Tailcone Fairings per the dimensions given in Figure 1.

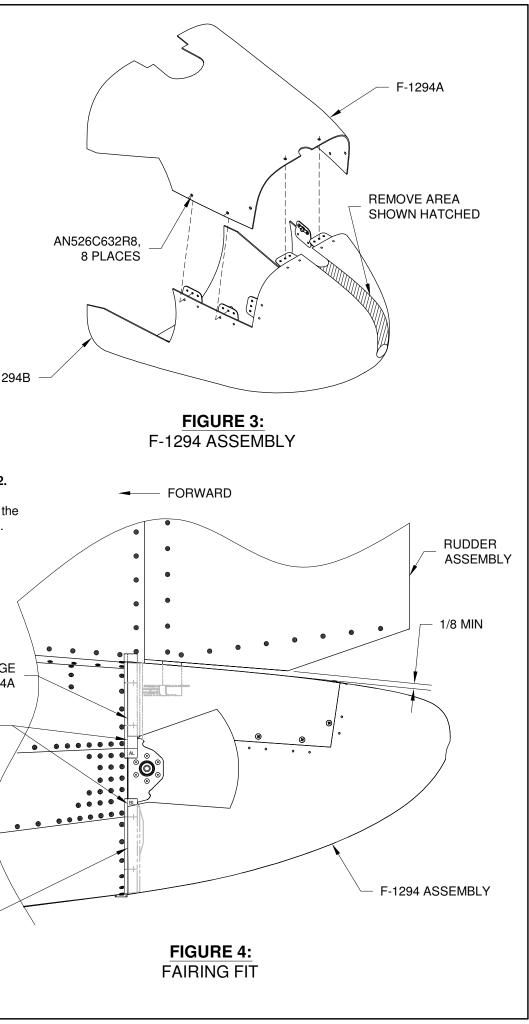


F-1294 ASSEMBLY GAP

Step 5: Trim the aft slot to the scribe line in the F-1294B Lower Tailcone Fairing by removing the material shown hatched in Figure 3.

Step 6: Attach the F-1294A Upper Tailcone Fairing to the F-1294B Lower Tailcone Fairing using the hardware called out in Figure 3.

Refer to the joined fairings as the F-1294 Assembly.



F-1294B

NOTE: For Step 7 refer to Page 11-02.

Step 7: Install the Rudder Assembly to the V-Stab Assembly as shown in Figure 4. Step 8: Align the forward edge of the F-1294 Assembly to the fairing edge line on each piece of masking tape (Refer to Page 12-05, Figure 2). If/as necessary adjust the alignment to ensure at least 1/8 FWD EDGE inch clearance from OF F-1294A the bottom edge of the Rudder Assembly. FAIRING Clamp the Fairing EDGE LINE Assembly in position. FWD EDGE OF F-1294B

Step 3: Countersink the #40 holes in the F-1294B Lower Tailcone Fairing per call-out in Figure 2.

CAUTION: When setting solid rivets in fiberglass it is permitted to only partially set the rivets to avoid crushing the fiberglass.

Step 4: Rivet the F-1294C Tabs to the F-1294B Lower Tailcone Fairing using the rivets called out in Figure 2.

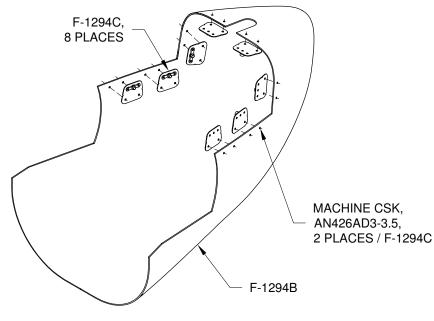


FIGURE 2: TAB INSTALLATION

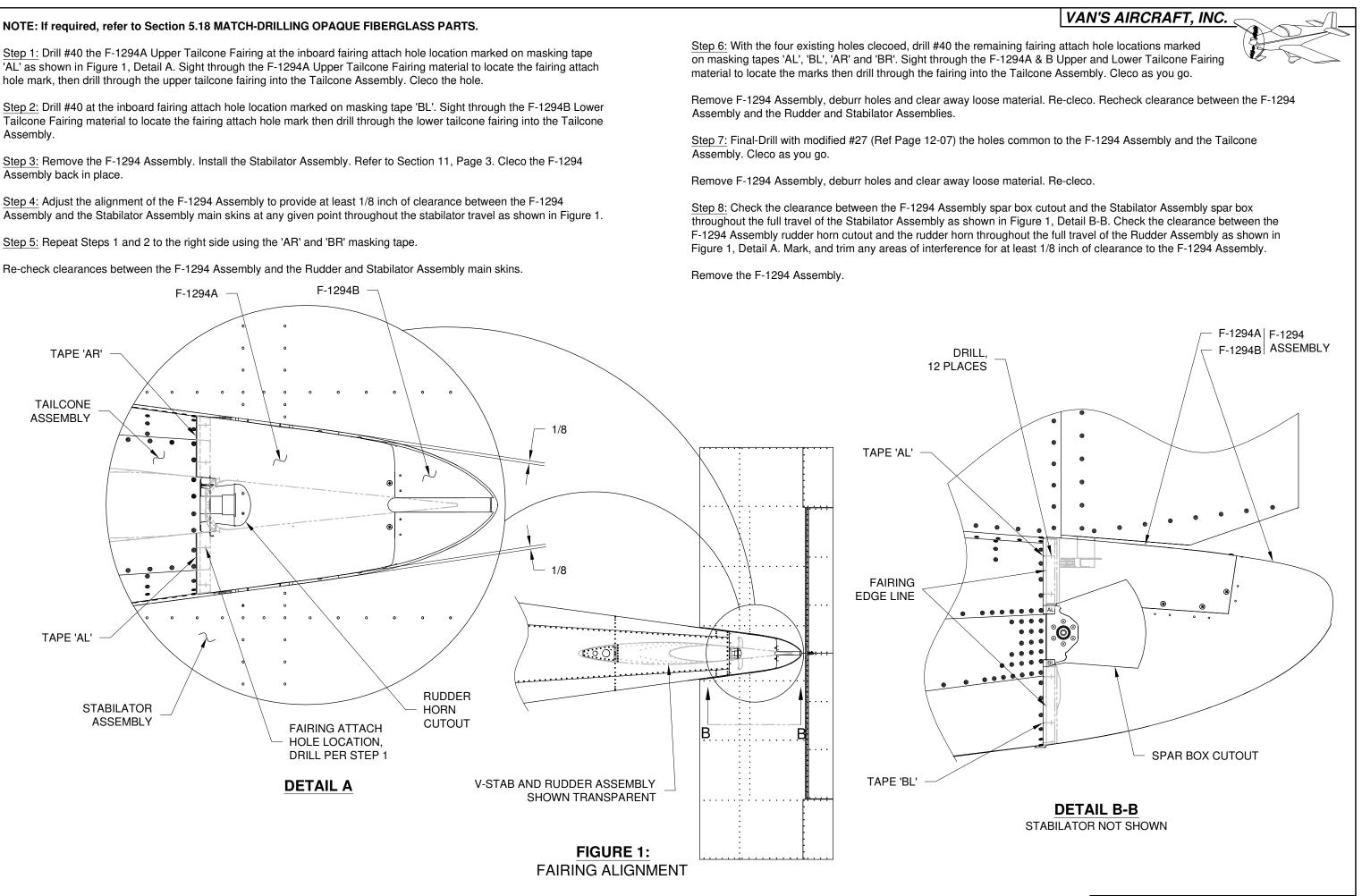
NOTE: If required, refer to Section 5.18 MATCH-DRILLING OPAQUE FIBERGLASS PARTS.

'AL' as shown in Figure 1, Detail A. Sight through the F-1294A Upper Tailcone Fairing material to locate the fairing attach hole mark, then drill through the upper tailcone fairing into the Tailcone Assembly. Cleco the hole.

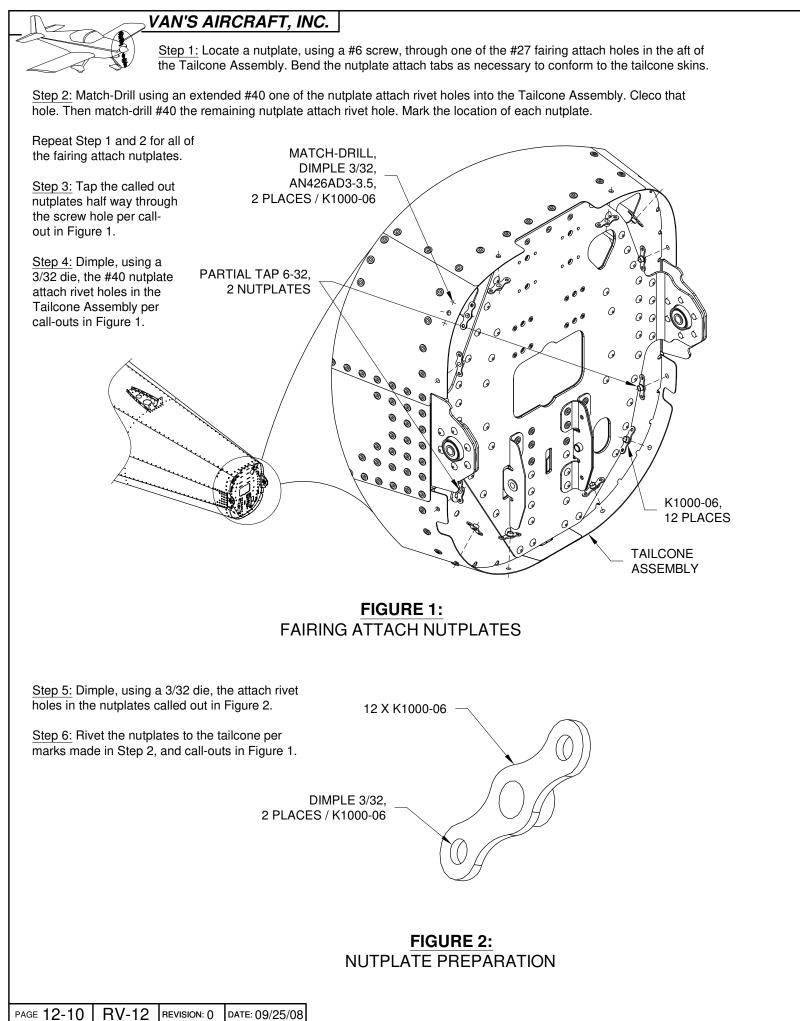
Tailcone Fairing material to locate the fairing attach hole mark then drill through the lower tailcone fairing into the Tailcone Assembly.

Assembly back in place.

Assembly and the Stabilator Assembly main skins at any given point throughout the stabilator travel as shown in Figure 1.

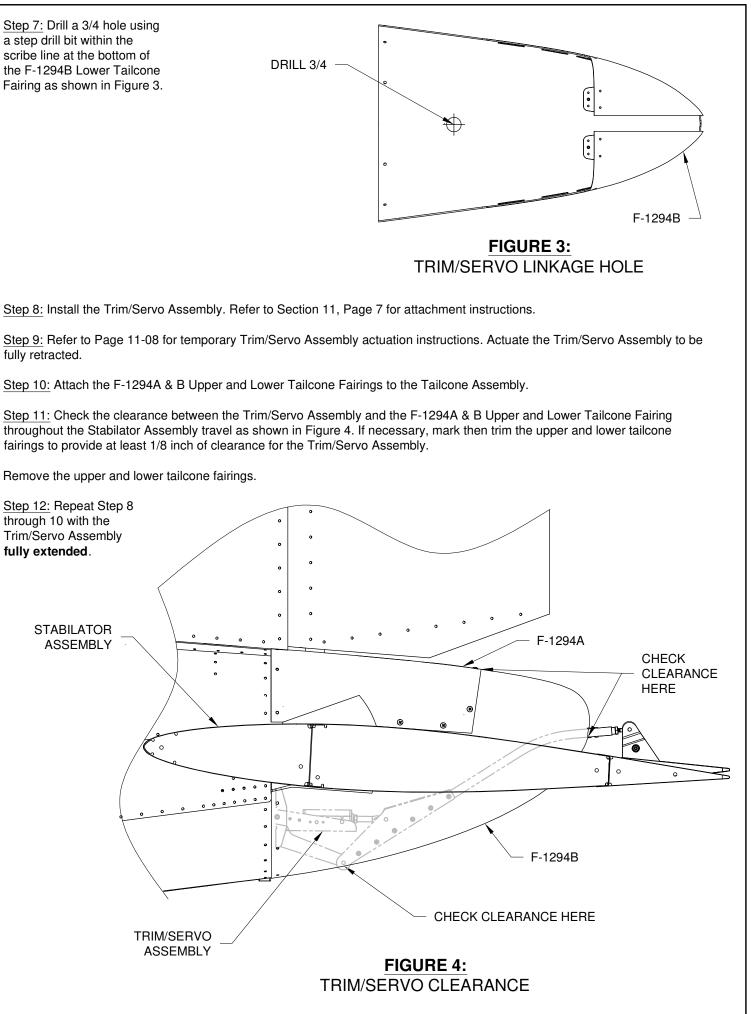


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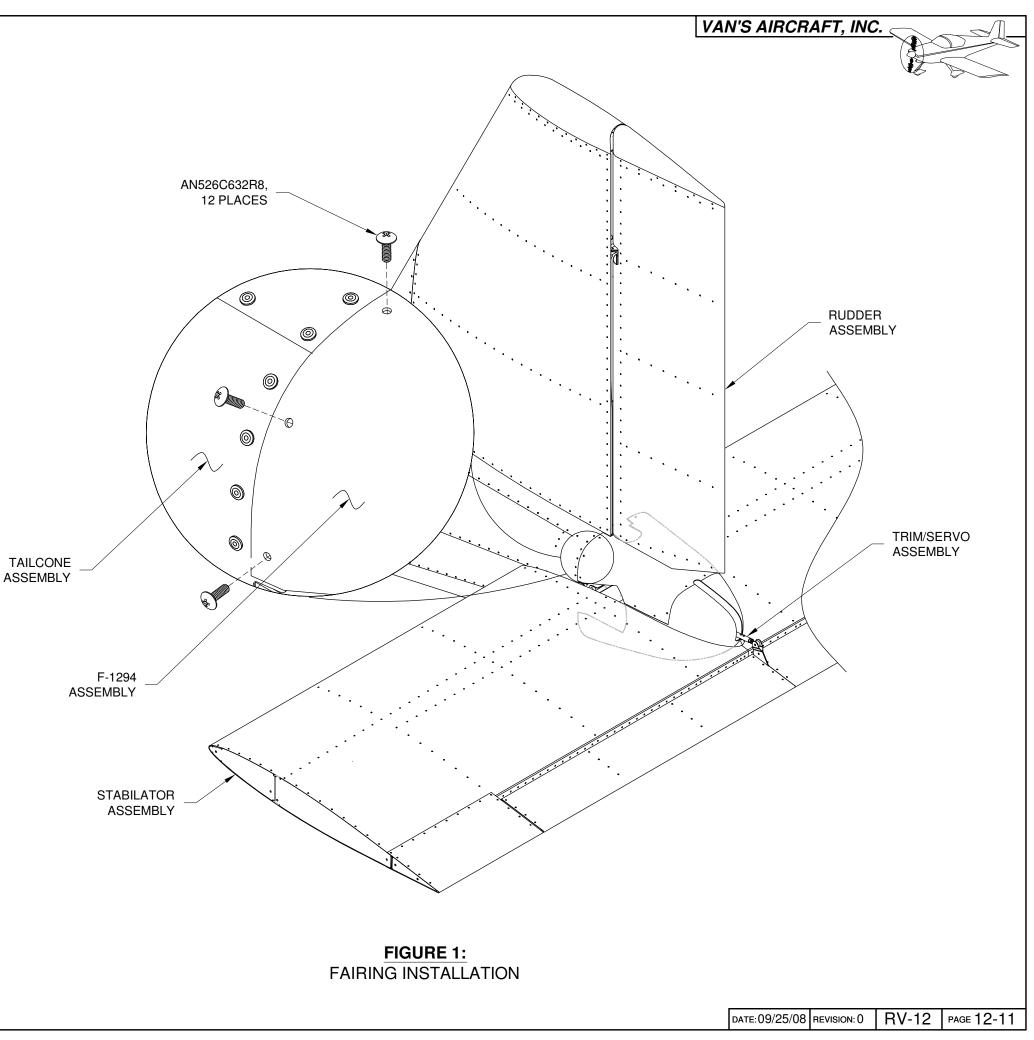
a step drill bit within the scribe line at the bottom of the F-1294B Lower Tailcone

fully retracted.



<u>Step 1:</u> Install the F-1294A & B Upper and Lower Tailcone Fairing to the Tailcone Assembly using screws called out in Figure 1.

<u>Step 2:</u> Re-check the clearance throughout the travel of the Rudder, Stabilator and Trim/Servo Assemblies to the F-1294A & B Upper and Lower Tailcone Fairings. At least 1/8 inch of clearance is needed.





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