

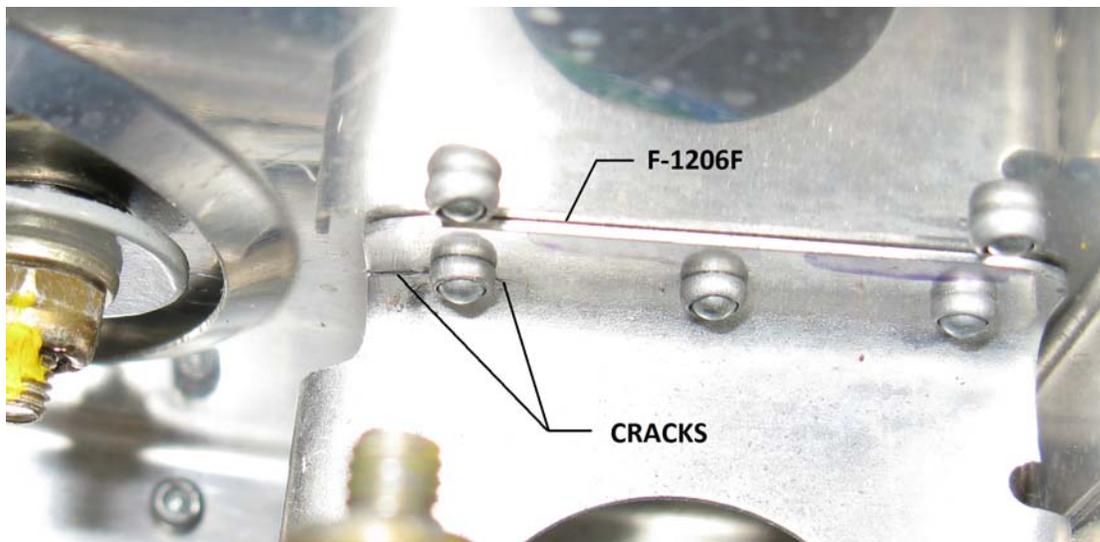
# **TOTAL PERFORMANCE VAN'S AIRCRAFT**

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## **SERVICE BULLETIN 14-12-06**

**Date Released:** December 31<sup>st</sup>, 2014  
**Date Effective:** December 31<sup>st</sup>, 2014  
**Subject:** Cracking F-1206F Bearing Bracket Brace.  
**Affected Models:** All RV-12 aircraft incorporating fuselage kits shipped prior to December 24, 2014.

**Required Action:** Inspect for cracks in the area around the aft rivet in both side flanges of the F-1206F Bearing Bracket Brace. See Figure 1. The presence of cracks requires the modifications described in this document. If no cracks are present, make a log book entry indicating compliance with this service bulletin and date of next inspection (if applicable).



**FIGURE 1:** CRACK LOCATIONS

**Time of Compliance:** At or before the next annual condition inspection. If no cracks are found, re-inspect at every annual condition inspection or until the modifications described in this document are completed.

**Labor Required / SLSA Warranty Allowance:** 3.0 Hours / \$240 US

**Certification:** ELSA – Owner, LSR-I, A&P  
SLSA – A&P, LSA Repairman Maintenance

**Synopsis:** Cracks have been reported propagating from the aft rivet hole in the side flanges of the F-1206F Bearing Bracket Brace.

**Method of Compliance:**

Step 1: Obtain an F-1206F-1 Bearing Bracket Brace, F-1206J Bearing Bracket Angle, and the required rivets from Van's Aircraft. See Figures 3 and 4.

Step 2: Remove the wings according to Section 5 of the Maintenance Manual.

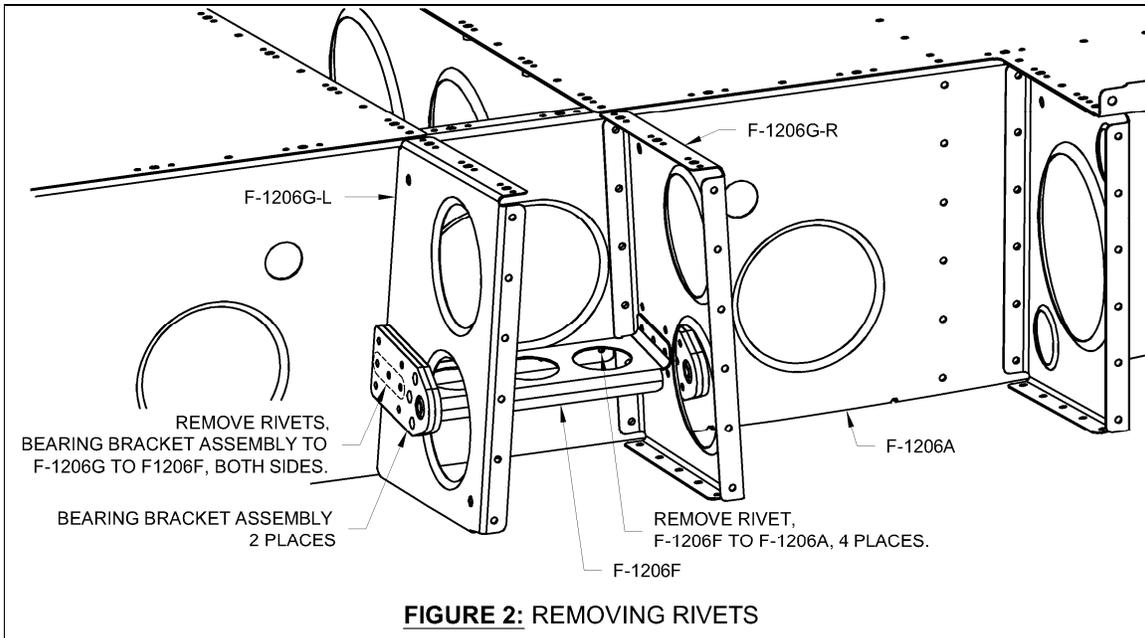
Step 3: Drain and remove the fuel tank according to Section 13 of the Maintenance Manual.

Step 4: Remove the F-1206E and F-1229 Baggage Covers, then disconnect the Flaperon Pushrod Assemblies from the WD-1215 Flaperon Torque Arms. See Section 32 of the KAI.

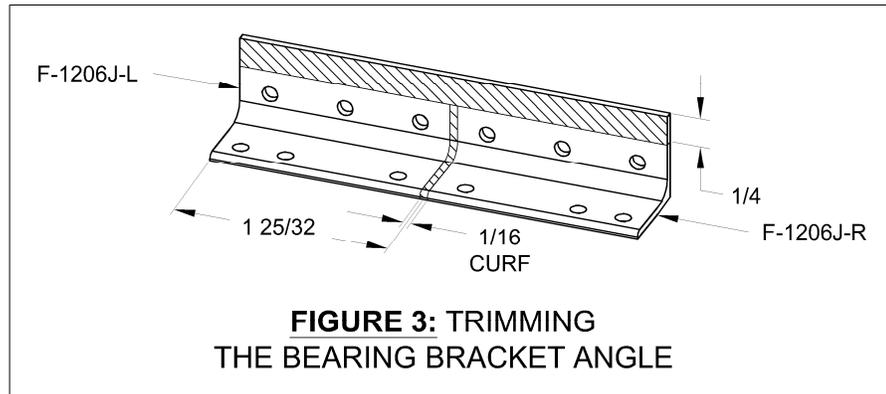
Step 5: Use an angle drill to remove the rivets that attach the F-1206F Bearing Bracket Brace to the F-1206G Baggage Ribs, Bearing Bracket Assemblies, and F-1206A Bulkhead. See Figure 2.

When removing blind rivets:

- (1) Drive out the center mandrel of the rivet with a hammer and a 1/16" diam. pin punch by inserting the pin punch into the small hole in the manufactured head of the rivet, and then tap the mandrel out through the shop head of the rivet.
- (2) Drill through the rivet using a 1/8" drill bit. Use a combination of high rpm and very low pressure on the drill bit to help prevent the rivet from spinning.
- (3) If a rivet does spin, hold the shop head of the rivet with a pair of pliers while drilling.



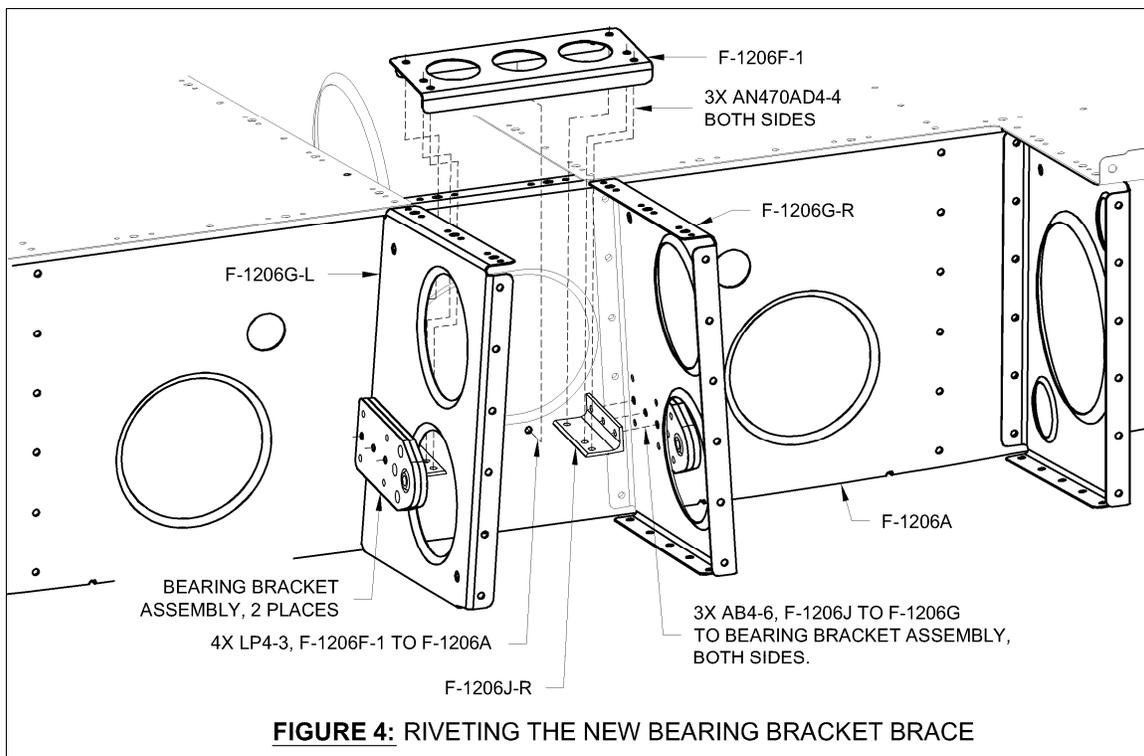
**Step 6:** Trim off the top (hatched) portion of the F-1206J Bearing Bracket Angle, then cut the part in half. See Figure 3.



**Step 7:** Rivet the new F-1206F-1 Bearing Bracket Brace to the F-1206J Angles using the rivets called out in Figure 4.

**Step 8:** Cleco the F-1206F-1 Brace and F-1206J Angles to the F-1206A Bulkhead and F-1206G Baggage Ribs respectively. See Figure 4.

**Step 9:** Using the rivets called out in Figure 4, rivet the F-1206F-1 Brace to the F-1206A Bulkhead, then rivet the F-1206J Angles to the F-1206G Baggage Ribs and to the Bearing Bracket Assemblies.



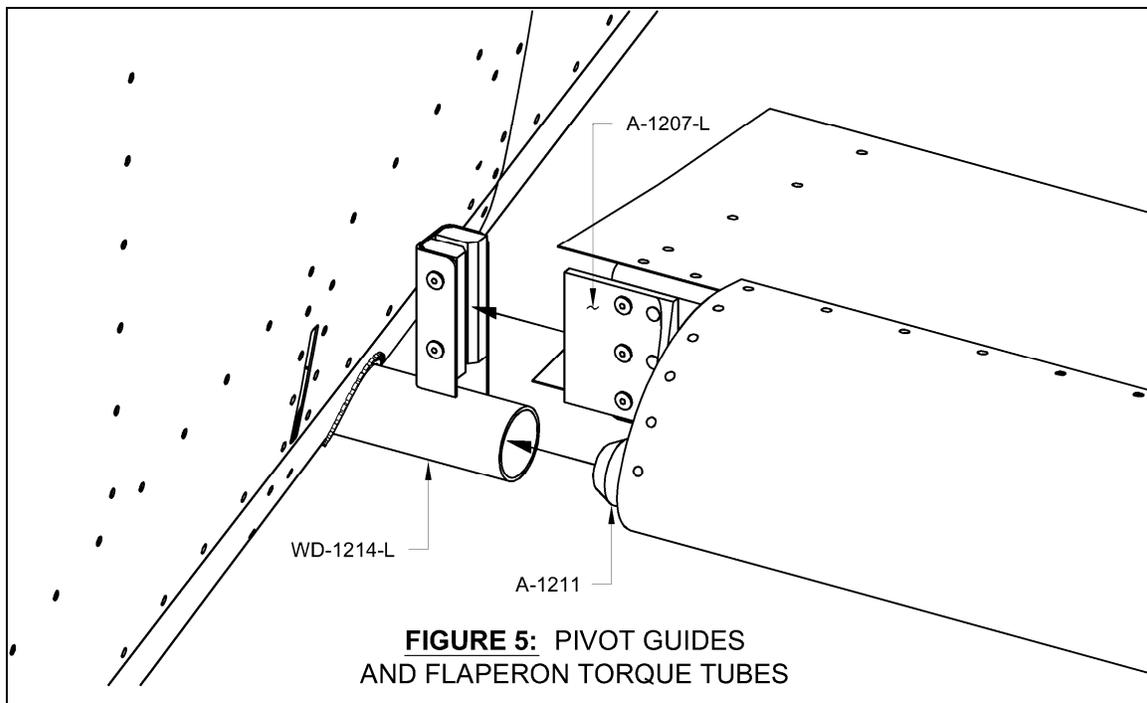
Step 10: Re-connect the Flaperon Pushrod Assemblies to the WD-1215 Flaperon Torque Arms according to Section 32 of the KAI, then re-install the F-1206E and F-1229 Baggage Covers.

Step 11: Re-install the fuel tank according to Section 13 of the Maintenance Manual.

Step 12: Re-install wings according to Section 5 of the Maintenance Manual.

During installation:

- (1) Ensure that the A-1211 Pivot Guides slide freely into the end of the WD-1214-L & -R Flaperon Torque Tubes. See Figure 5. If some binding is present, first deburr the inside edge of the torque tube then, if necessary, lightly sand the pivot guides until the parts slide together freely.
- (2) Use axle grease to lubricate the A-1211 Pivot Guides and A-1207-L & -R Actuation Brackets in the locations that interface with the WD-1214 Torque Tubes.



Step 13: Make a logbook entry indicating compliance with this Service Bulletin.