

# TOTAL PERFORMANCE VAN'S AIRCRAFT

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## SERVICE BULLETIN 13-04-05

**Date Released:** April 5, 2013

**Date Effective:** April 5, 2013

**Subject:** Oil Tank Mount Brackets

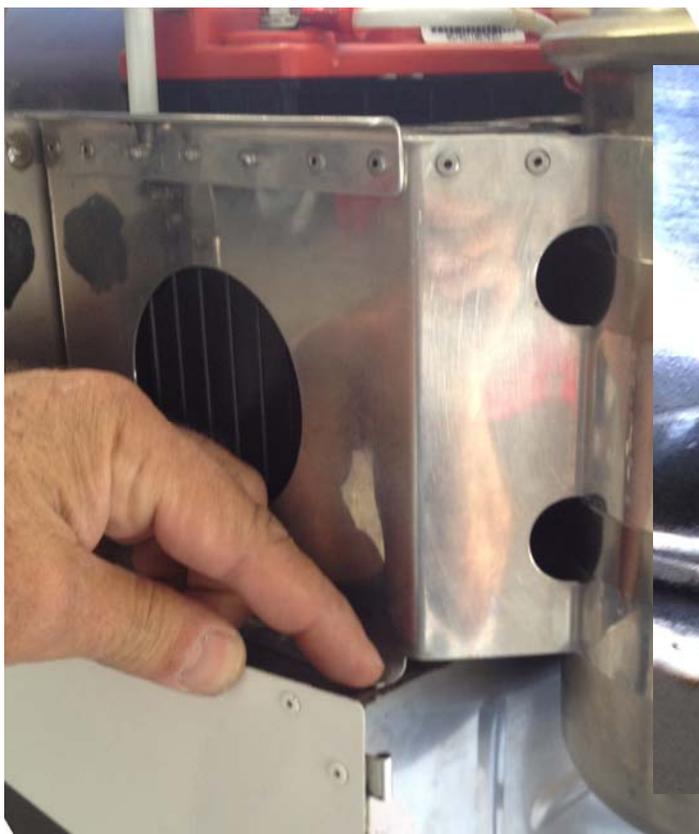
**Affected Models:** All RV-12 Kits and flying RV-12 aircraft incorporating Fuselage kits shipped prior to April 5<sup>th</sup>, 2013.

**Required Action:** Stop drill or remove cracks. Install a second F-1201G Rib.

**Time of Compliance:** At or before the next annual condition inspection

### Synopsis:

Cracks have been found in the F-1201E-L & -R Oil Tank Side Brackets at the location shown in Figures 1 & 2 below. Installation of an extra F-1201G-MOD Rib is required to prevent cracks in this area.



**FIGURE 1:** Crack Location



**FIGURE 2:** Typical Crack

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## Method of Compliance:

Step 1: Remove the upper and lower cowlings from the aircraft. See KAI Section 38 and Maintenance Manual Section 12.

Step 2: Disconnect the battery. Remove the battery. See KAI Section 45A and Maintenance Manual Section 8.

Step 3: Drain the oil. Refer to Rotax documentation.

Step 4: Unclamp the oil tank from the F-1201E-L & -R Brackets and rotate the tank up and away from the area of the brackets. If you wish to disconnect the oil tank refer to Rotax documentation.

Step 5: Inspect the lower forward corner of the F-1201E-L & -R Brackets for cracks.

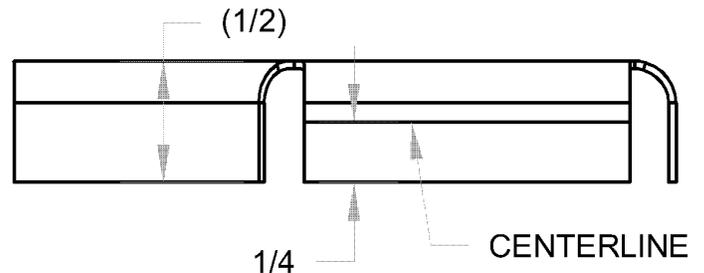
If a crack is present and longer than 1/8 inch, stop-drill the crack using a #40 drill bit.

If a crack is present and shorter than 1/8 inch use a round file of at least 1/4 inch in diameter to remove the crack. File past the end of the visible crack an extra 1/16 inch to ensure the end of the crack has been removed.

Step 6: Using the dimensions in Figure 4 layout then drill #30 the hole pattern shown into the F-1201E-L & -R Brackets.

Step 7: Deburr the edges of the F-1201G-MOD rib.

Draw a centerline on the four forward facing rib flanges. See Figure 3.



**FIGURE 3:** Typical Centerline

Orient the rib, flanges facing up as shown in Figure 4 so that the centerlines drawn on the flanges are centered on the holes drilled in the previous step.

Match-Drill #30 the holes in the F-1201E-L & -R into the rib.

Remove and Deburr the rib. Prime the rib if desired.

Rivet the rib to the brackets using the rivets called out in Figure 4.

Step 8: Re-install the oil tank and battery. Add oil to the system. Re-install the lower and upper cowlings.

Step 9: Complete Rotax SI-912-018 oil system purge procedure.

Step 10: Make a logbook entry indicating compliance with this Service Bulletin.

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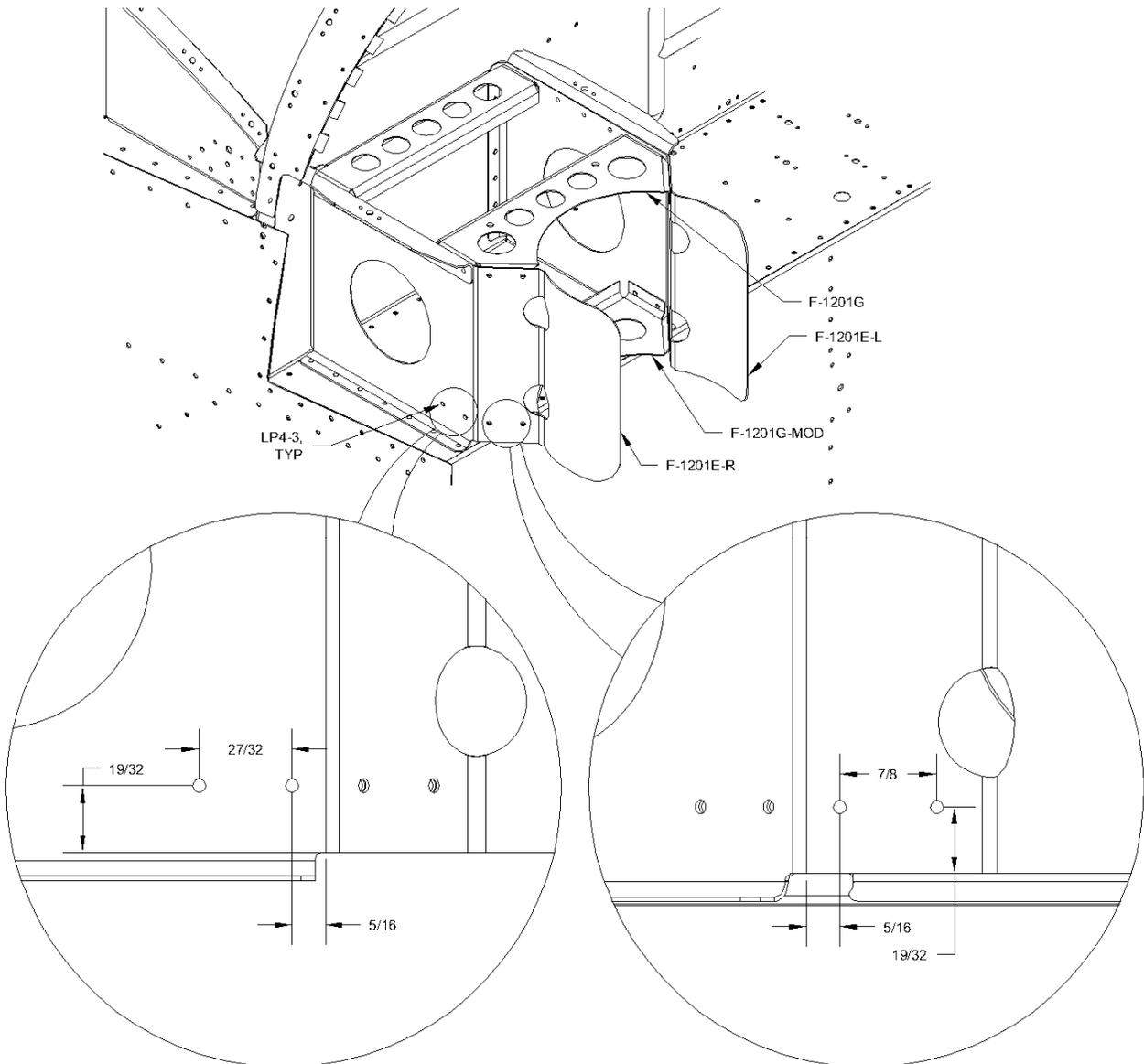
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## PART NUMBER

F-1201G-MOD (Will be supplied by Van's Aircraft at no charge. **Builders do not need to contact Van's.** Parts will be sent to all affected RV-12 builders/owners automatically)



**FIGURE 4:** Rib Installation