



## SERVICE LETTER 00033, REV 1

**Date Released:** February 4, 2021 (Revision 1 – Changed to timeframes for compliance and reporting requirements)

December 14, 2020 (Initial Release)

**Date Effective:** December 14, 2020

**Subject:** RV-10 Landing Gear Component Field Assessment

**Affected Models:** RV-10

**Required Action:** Inspect WD-1021 main landing gear weldments and the F-1050 forward cabin floor panels. Where applicable, submit photographic findings to Van's Aircraft.

Aircraft with cracks in the WD-1021 Landing Gear Mounts shall be grounded and the owner/operator is directed to contact Van's Aircraft Support for further assistance.

**Time of Compliance:** At each annual inspection

**Supersedes Notice:** Not Applicable

**Labor Required:** 2.0 Hours

**Level of Certification:** Not Applicable

### Synopsis:

The Van's Aircraft factory prototype RV-10 developed cracks in the WD-1021 Landing Gear Mounts (see Figure 1) and in the F-1050 Fwd Cabin Floor Panels (see Figure 2). The Van's Aircraft engineering team has determined that these cracks may develop in aircraft with a high number of hours, or aircraft operated frequently on unimproved runways, such as is the case with the prototype RV-10. Initial feedback from the field after the publication of this service letter has shown that a while a number of aircraft have cracking in the floor, only a small number of cracks in customer landing gear weldments have been reported to Van's Aircraft.

The presence of cracks in the weldments is not necessarily an indication of imminent failure. These cracks will be slow-growing. There is some concern that a cracked weldment could fail during a very-high-impact landing, hence the request for owners to ground aircraft with cracks in the landing gear weldments, and then complete the described inspection and submit photos/results to Van's using the web form linked

below. Upon verification of cracked weldments, Van's Aircraft will provide individual assistance, replacement parts and specific guidance to customers with cracks in landing gear weldments.

***NOTE: Due to the potential for damage during retrofit with new parts, Van's Aircraft does not approve replacement of uncracked weldments on a finished aircraft as a preventative/proactive measure. The Van's support team will verify that reported weldments are actually cracked before shipping replacement parts.***

**Materials Required:**

None

**Method of Compliance:**

Step 1: Inspect the WD-1021 Landing Gear Mounts for cracks in the corner plate of the gear mounts, and for cracks propagating from the top, outboard attachment bolt hole (refer to Figure 1). The front seats and underlying F-1067B Seat Floor Covers must be removed for this inspection.

Note that apparent cracking may only be in the powder coat material and not in the part itself. If cracking is suspected, remove the powder coat from the area as required to determine if cracking is in the metal part itself. If no cracking is found in the metal part be sure to recoat or cover the exposed area to prevent corrosion.

If cracks are found in the metal weldment(s), take pictures of the affected area(s) and submit them to Van's Aircraft using the form linked below. Please include your aircraft total time, serial number and registration number in your submission.

Submit your report via the mobile-friendly web form at <https://www.vansaircraft.com/10-sl-33-form/>, or scan the QR code below with your mobile device's camera to load the form. You may submit your report and photos using either a computer or a mobile device.

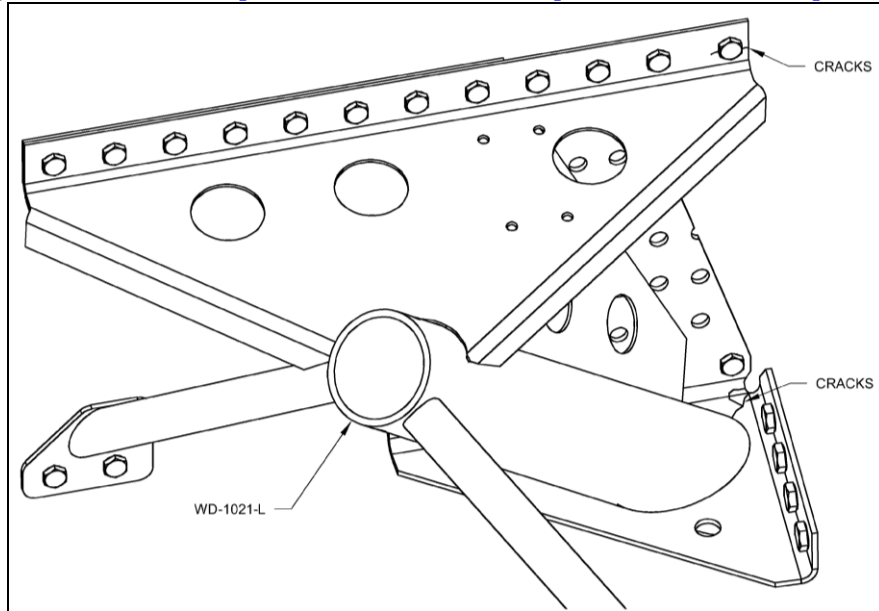


Step 2: Inspect the F-1050 Forward Cabin Floor Panels for cracks propagating from the corners of the cut-outs for the landing gear mounts (refer to Figure 2). If cracks are found in the floor panel(s), stop drill the cracks using a #30 drill bit. No further action is required.

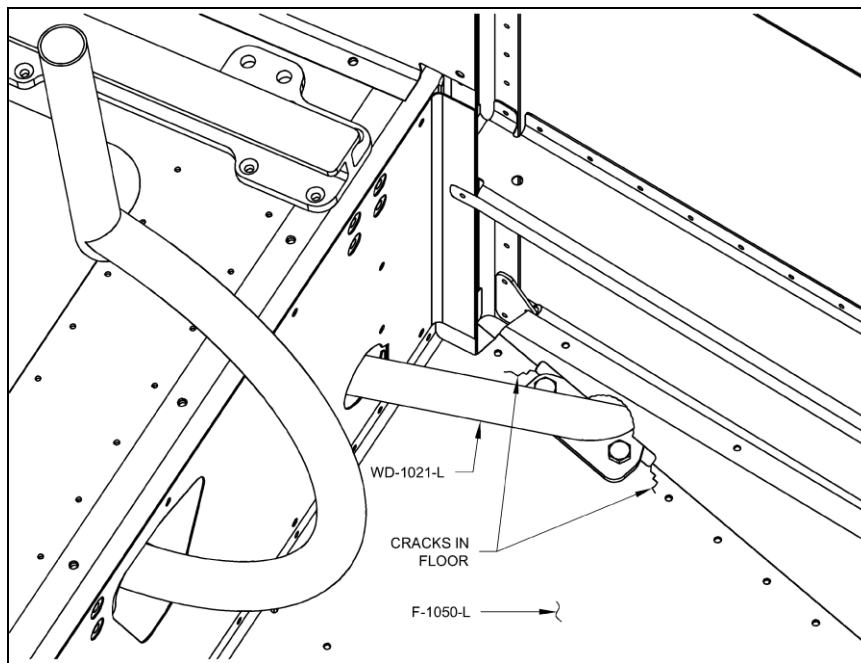
Step 3: Make a logbook entry indicating compliance with service document per the requirements of the controlling authority/agency until the next annual inspection.

If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and immediately notify Van's Aircraft, Inc. of the new owner's contact information by emailing [registrations@vansaircraft.com](mailto:registrations@vansaircraft.com).

Information regarding establishing/transferring aircraft ownership, registration and licensing is available at: <https://www.vansaircraft.com/qr/transfer-of-ownership/>



**FIGURE 1:** LANDING GEAR MOUNT POTENTIAL CRACKS



**FIGURE 2:** FLOOR PANEL POTENTIAL CRACKS



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TOTAL PERFORMANCE

14401 Keil Road NE, Aurora, Oregon, USA 97002  
PHONE 503-678-6545 • FAX 503-678-6560  
[www.vansaircraft.com](http://www.vansaircraft.com) • [info@vansaircraft.com](mailto:info@vansaircraft.com)