



## SERVICE BULLETIN 00023 - REV 1

**Date Released:** December 1, 2020 (Rev 1, note to support tail during lift added)  
November 20, 2020 (Initial release)

**Date Effective:** November 20, 2020

**Subject:** WD-1221 Engine Mount Standoff inspection/replacement

**Affected Models:** RV-12/12iS

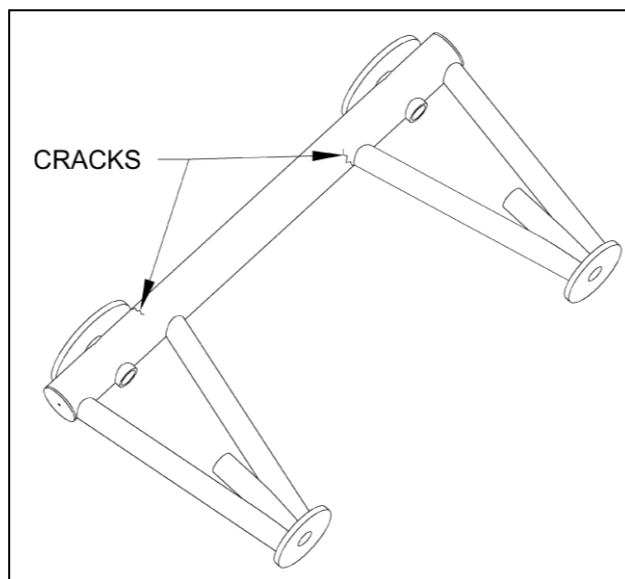
SLSA Aircraft Serial Numbers 12001-12094

RV-12/12iS Finish Kits shipped before 10/31/2020

### Required Action:

Remove the top cowl. Inspect the WD-1221 Engine Mount Standoff for cracks in the main cross tube (refer to Figure 1 for specific location).

If cracks are discovered in the standoff, notify Van's Aircraft support at [support@vansaircraft.com](mailto:support@vansaircraft.com) and replace it with a WD-01221-1 Engine Mount Standoff as described in this document. If no cracks are discovered, 100-hour inspections are required until the standoff is replaced.



**FIGURE 1:** WD-1221 CRACK LOCATIONS

**Time of Compliance:** Inspect before further flight

**Labor Required / SLSA Warranty Allowance:** 2.0 Hours (if applicable)

**Level of Certification:** SLSA: LSA Repairman Maintenance or A&P  
ELSA: Owner (certification not required)  
*Check the rules of the local controlling authority/agency and the operating limitations for your aircraft.*

**Synopsis:**

Cracks have been discovered in the WD-1221 Engine Mount Standoff. These cracks have been reported/observed on two aircraft. Note that primary potential causes of vibration on the RV-12/12iS are carburetor sync and propeller balance issues.

**Materials Required:**

If cracks are found during the inspection described in this document, the following materials are required to complete the steps necessary to achieve compliance with this Service Bulletin:

Purchase Part no. WD-01221-1 from Van's Aircraft

**Method of Compliance:**

Step 1: Remove the top engine cowling. Inspect the WD-1221 Engine Mount Standoff for cracks at the locations indicated in Figure 1, above. If no cracks are found, log the inspection (as per Step 9 below) and reinspect every 100 hours until such time as the WD-1221 has been replaced per the below steps.

If cracks are found, complete the remaining steps in this document.



**FIGURE 2:** ENGINE HOISTING

Step 2: Take pictures of hoses, tubes, and wires that are attached to the WD-1221 Engine Mount Standoff so that they can be reattached in the same position later.

Step 3: Detach the hoses, tubes, and wires from the engine mount standoff.

Step 4: Attach a tail stand, or place an appropriate padded sawhorse under a tail cone bulkhead, to ensure the aircraft tail will not strike the ground when lifting the engine. With straps wrapped around the intake manifolds (see Figure 2), hoist the engine just enough to unload the bolts securing the engine mount standoff.

Step 5: Remove the two bolts attaching the engine mount standoff to the WD-1220 Engine Mount Ring, and the two bolts attaching the standoff to the firewall.

Step 6: Replace the standoff with the new WD-01221-1 Engine Mount Standoff, and secure with the original bolts.

Step 7: Reattach hoses, tubes, and wires to the standoff.

Step 8: Attach the top engine cowling.

Step 9: Make a logbook entry indicating compliance with service document per the requirements of the controlling authority/agency.

Place a copy of this notification in the back of the maintenance manual for your aircraft. Note the addition of this notification to the bottom of the Maintenance Manual table of contents.

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. via email at [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/>