



SERVICE BULLETIN 99-06-01

Date Released:	October 21, 2021 October 21, 2021 (Rev 2, made SB mandatory; removed the original option for ongoing inspections) June 30th, 1999 (Rev 1)
Date Effective:	October 21, 2021
Subject:	Overhead (“suspended”) rudder pedals for the RV-6 and RV-6A are cracking and need to be replaced <u>or</u> reinforcement gussets need to be installed
Affected Models:	RV-6, RV-6A
Required Action:	Replace or reenforce all affected WD-655-L/R rudder pedals with gussets
Time of Compliance:	Before further flight
Supersedes Notice:	Revises and replaces SB 99-06-01 Rev 1
Labor Required:	6.0 Hours (Note this number is highly dependent on the configuration of the RV-6, the presence of a center console, or other unique features that may inhibit the removal and subsequent installation of WD-655-L/R)
Level of Certification:	Check the rules of the local controlling authority/agency and the operating limitations for your aircraft

Synopsis:

There have been several cases of welds breaking on the overhead-style rudder pedals (WD-655L and WD-655R) used in the RV-6/6A. These breaks usually occur where the upright tubes from the pedal connect to the torque tube that runs across the fuselage. The forward side of the torque tube fails in compression, allowing the aft side of the torque tube to tear.

Van's Aircraft, Inc. has static tested a set of production pedals and found they exceeded the strength limits specified in FAR Part 23. However, since several operational failures have occurred, corrective action should be taken.

Materials Required:

The following materials are required to complete the steps necessary to achieve compliance with this Service Bulletin.

Van's Aircraft, Inc. will make available, free of charge, a set of finger patches that may be welded on the pedals. The part number for a kit containing eight patches and instructions is: WD-655 FPKIT.

For those owners not in a big hurry, the pedals may be returned to Van's for modification. Include a note with your name, builder's number, and shipping address. You must remove the paint around the tubing intersections (about 4" in all directions from the joint) before sending them in. Mark the outside of the box "RMA-WD-655". We expect repairs to take between two and four weeks, but it may take longer.

Pedals may also be replaced with new WD-655-L/R parts at the owner's expense.

Method of Compliance:

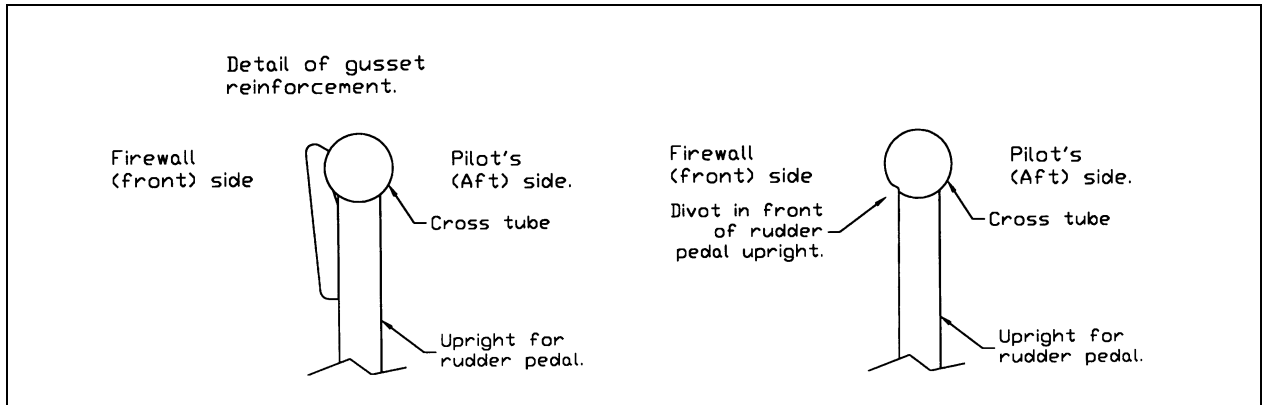


FIGURE 1: GUSSET DETAIL

Step 1: Check that your rudder pedals have gussets installed, as shown in Figure 1. Also refer to KAI drawing 43A.

Step 2: If no gussets are present, remove the WD-655-L/R Rudder Pedals from the aircraft. Reference KAI drawing 43A.

Step 3: Repair or replace the pedals using one of the methods described in the materials required section, above.

Step 4: Install the WD-655-L/R Rudder Pedals back onto the aircraft per KAI drawing 43A.

Step 5: Check for proper function of the pedals, brake system or any other system or component affected by the removal of the rudder pedals from the aircraft.

Step 6: Make a logbook entry indicating compliance with this 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. Add the name and date of the service information to the Addendum Documents List at the front of the Maintenance Manual.

If you are no longer in possession of this aircraft, please forward this information to the current owner/operator and immediately notify Van's Aircraft, Inc. of the current owner's information via email at registrations@vansaircraft.com.

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