

LAA/AWA/21/01  
13<sup>th</sup> January 2021

## Van's Aircraft RV-12

### Service Bulletin SB 00023-REV 1

#### Engine Mount Stand-off – Inspection/Replacement

Following the receipt of a Van's Aircraft Service Bulletin (SB 023), suggesting that owners check the engine mount stand-off on their aircraft, the owner of an RV-12, operating under an LAA administered Permit to Fly, checked his aircraft and discovered cracking in the areas shown in the SB.

The SB explains that cracks had been discovered on two aircraft so far and, in their view, a primary cause of cracking is vibration due either to poor carburettor synchronisation or propeller balance issues.

That said, this part, WD-1221, has subsequently been strengthened and replacements carry a different part number (WD-01221-1). Kits shipped to owners after October 2020 are not affected, as they contain a strengthened version of the stand-off.

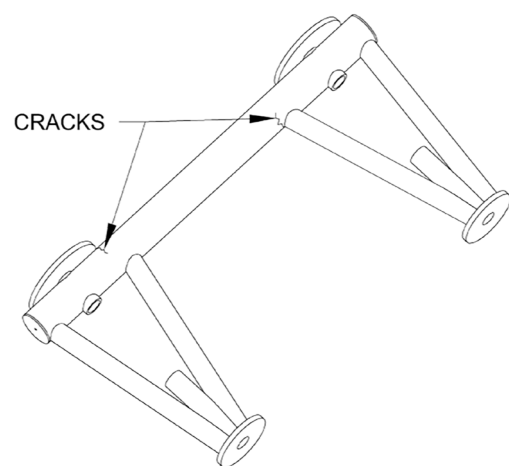
Investigations were made to see if a weld repair was viable for this part, but the complex nature of the repair was such that a repair wasn't a cost-effective option.

Van's Aircraft Service Bulletin SB-023 Rev 1 may be downloaded [HERE](#).

This issue was discussed in the January 2021 issue of Safety Spot, which can be accessed [HERE](#).



This picture shows the circumferential crack found by the LAA administered RV-12 owner after receiving a copy of the Service Bulletin directly from Van's Aircraft. The pink staining is the residue following a dye-penetrant inspection.



This sketch, extracted from the Van's Aircraft SB, shows where cracking has been seen in other examples of the type.