

LAA/AWA/16/02
28th April 2016

Dyn Aero MCR-01 – All Marks

Tailplane Attachment – Report of Attachment failure

LAA Engineering has received a report about the accidental discovery of a failed tailplane attachment lug (See Photo Right). At this early stage in the investigation we are not sure why this lug has failed but, especially bearing in mind the critical nature of this primary fitting, we felt it important to alert all MCR-01 owners in our fleet of this occurrence; to accomplish this the LAA has written to each aircraft owner directly, suggesting that they don't fly their aircraft until visual checks have been made and they know their attachment fittings are sound. This Airworthiness Alert, in addition to providing general safety information to the wider membership, also provides a means of access to copies of previously published but still relevant Information leaflets and an associated Mandatory Permit Directive: this information is listed below.



Fig. 1. This picture shows clearly that one lug in this tailplane attachment bracket has failed. The discovery of this failure came about by accident when an observant LAA Inspector noticed excessive play in the tailplane of the aircraft as it was being moved in its hangar.



Fig. 2. In 2011, an MCR-01 forward wing attachment fitting fell off the wing whilst de-rigging the aircraft in preparation for re-painting; the corrosion present throughout the attachment surfaces and the failed attachment rivets are clear in the picture above. LAA Engineering produced an Airworthiness Information Leaflet (AIL) requiring immediate and then subsequent (3 yearly) de-rigs so that wing attachments could be checked: this AIL was mandated by a CAA MPD in April 2011.

Corrosion is a serious issue on all aircraft but this is especially so on types that have been built especially light for maximum performance: the MCR-01 series of aircraft fall into this category. Corrosion issues on this type have featured in a number of Safety Spot articles over the years, notably April and June 2010 and June 2011: All Safety Spots can be downloaded [HERE](#). LAA/MOD/301/021 (Mainplane attachment Bracket Inspection) can be downloaded [HERE](#). LAA/MOD/301/022 (Inspection of Aluminium Fittings) can be downloaded [HERE](#). CAA MPD 2011-002-E can be downloaded [HERE](#).