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## **Inspection of Europa Glider Wing Spars**

**Classification:** Mandatory

**Applicability:** All Europa Motor Glider wings

Notes:

This SB is not applicable to XS or Classic standard wings.

Issue 2 of SB 17 applies to those Europa Motorgliders that do not require the approval of the UK LAA for the issuance of their Permit to Fly (or national equivalents)

**Compliance:** Before next flight

### **Introduction:**

The latest glider wing/fuselage combined structural test carried out by the Europa Aircraft (2004) Ltd has highlighted the requirement for additional reinforcement on both the port and starboard glider wing spars originally designed by Europa Aircraft Ltd.

This Service Bulletin requires an immediate inspection of the inboard ends of the glider wing spars to ensure no damage has occurred in service.

In addition, the Service Bulletin introduces temporary limitations on aircraft fitted with glider wings. These limitations will be removed through the incorporation of Mod 78.

### **Action:**

1. Before the next flight, with the wings off the fuselage, inspect the spar tangs between the root rib and the inboard end for signs of cracking in the carbon spar wrapping cloths, (See pictures on pages 2 and 3). Check both sides and the upper and lower surfaces of the spar tangs for cracks.



Inspect spar tang on all four surfaces



View of cracks that may be present in spar webs



View of cracks that may be present at spar corners

2. If any cracks are found in the spar tang cloths the wings **are not to be flown** until Mod 78 has been incorporated.
3. If no cracks are found the glider wings can continue to fly for a further 25 hours subject to the following additional flight limitations;

Never Exceed Speed $V_{NE}$	105 kts
Manoeuvring speed $V_a$	85 kts
Rough Air Speed $V_{ra}$	85 kts
Maximum gross weight:	1370 lbs.
Structural Limit Loads	+2.5g to -1.9g

4. When the requirements of this Service Bulletin have been completed in their entirety, annotate the aircraft log book: "Service Bulletin 17 embodied".
5. Mod 78 must be incorporated within the next 25 hours of glider wing flight time at which point the above restrictions can be lifted and the normal limitations reinstated.
6. Contact Europa Aircraft (2004) Ltd for Modification Bulletin No. 78 at issue 1, dated September 2010, and parts.