

Service Bulletin

S.B. No: 179

Title: INSPECTION OF TAILPLANE ATTACHMENT BRACKETS

- Compliance:**
- a. Upon receipt of this Issue 3, if **Issue 1 and/or 2** of this SB **have not** been complied with, compliance is to be: **"Prior to next flight"**.
 - b. If Issue 1 and/or 2 of this SB have been complied with and if the original brackets were not replaced, then compliance is to be: "at the next 150 flying hours, or next Annual, whichever is soonest, from receipt of Issue 3 of this SB".

In any case inspection in accordance with this Service Bulletin shall be every Annual thereafter until the brackets are replaced by Mod M988 brackets".

Applicability: T67A, T67B, T67C, T67M, T67M-MkII, T67M200, T67M260 and T67M260-T3A.

This Service Bulletin is subject of an Airworthiness Directive.

CHANGES INCORPORATED BY THIS ISSUE 3:

This Issue 3 specifies a continuation of repetitive inspections already set out in Issue 1 and 2 of SB 179 pending definition of Mod M988 as termination action. Additionally Issue 3 differentiates between the Pre and Post Mod M520 aircraft tailplane re-fitting instructions.

INTRODUCTION:

Cases have been reported of cracked tailplane brackets. This Service Bulletin details inspection of the aft tailplane brackets in order to discover similar cracks.

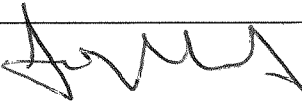
ACTION:

1. Check master switch, ignition switch and fuel are OFF. Disconnect external power and hangar aircraft, if required.
2. Remove tailplane and gain access to aft tailplane mounting brackets and remove from tailplane main spar. Ref. Figure 1.

NOTE 1: Pre Mod M520 aircraft Works Nos 1988 to 2108, 2111, 2112 have attachment brackets attached to tailplane spar with loose stiffnuts. Post Mod M520 aircraft, Nos 2109, 2110, 2113 and subsequent have anchor nuts.

NOTE 2: Should attachment bracket bolt distance tube withdraw from tailplane spar with bolt re-fit IAW DOI T67B-404

3. Remove paint from bracket.

Approved by: 		
For and on behalf of SLINGSBY AVIATION LIMITED	Date: 20 TH JAN 05.	Issue 3
Kirkbymoorside, York. YO62 6EZ Fax No: 01751 431173	Tel: 01751 432474 E-mail: SAL5@Slingsby co.uk	Page 1 of 4

4. Perform dye penetrant (or similar) NDT crack detection on brackets and examine, paying particular attention to the region illustrated in Figure 1.
5. Should any crack be discovered, then all four tailplane-mounted brackets from the subject aircraft shall be returned to SAL and replaced with new items.

6. 6.1 Pre Mod M520 Aircraft (Tailplane brackets held on with stiffnuts at spar).

Tailplane brackets are to be re-fitted to tailplane "finger tight" initially. Then using a .25 inch (6.35mm) wide gap setting tool or tailplane attachment bracket T67B-11-521, to ascertain if there is going to be an additional gap. If gap apparent, establish the dimension and fit requisite washers following guidelines set out in notes 1 and 2. When satisfied tighten attachment bracket bolts, against gap setting tool and requisite washers as applicable. Remove gap setting tool and re-fit tailplane to fuselage with/without washers as previously established. Torque main fuselage to tailplane fuselage bolts to 60 lbf in.

6.2 Post Mod M520 Aircraft (Tailplane brackets held on with anchor-nut plates at spar).

Tailplane attachment brackets are to be re-fitted to tailplane, bolts to be "finger tight". The tailplane is to be offered up to the aircraft and main tailplane to fuselage bolts fitted and torqued to 60 lbf in. Then tighten tailplane attachment bracket bolts.

NOTE 1 Prior to torquing main bolts, ensure there is either no gap or a gap of up to a maximum of .010" (.25mm) between fittings. If a gap greater than .010" (.25mm) does exist after taking up slack then it is permissible to fit washers as follows:

Washer/s of thicknesses 0.016" (.4mm) (SAL Stores Code 126-23-750) or 0.018" (.46mm) (SAL Stores Code 126-23-754) or 0.032" (.81mm) (SAL Stores Code 126-23-747). Thinning of 0.032" is acceptable providing faces of washer remain parallel. Re-protect modified face, use Duralac.

NOTE 2 Ensure that the brackets are not forced apart when fitted.

NOTE 3 If the requirements of Notes 1 and 2 cannot be satisfied inform SAL.

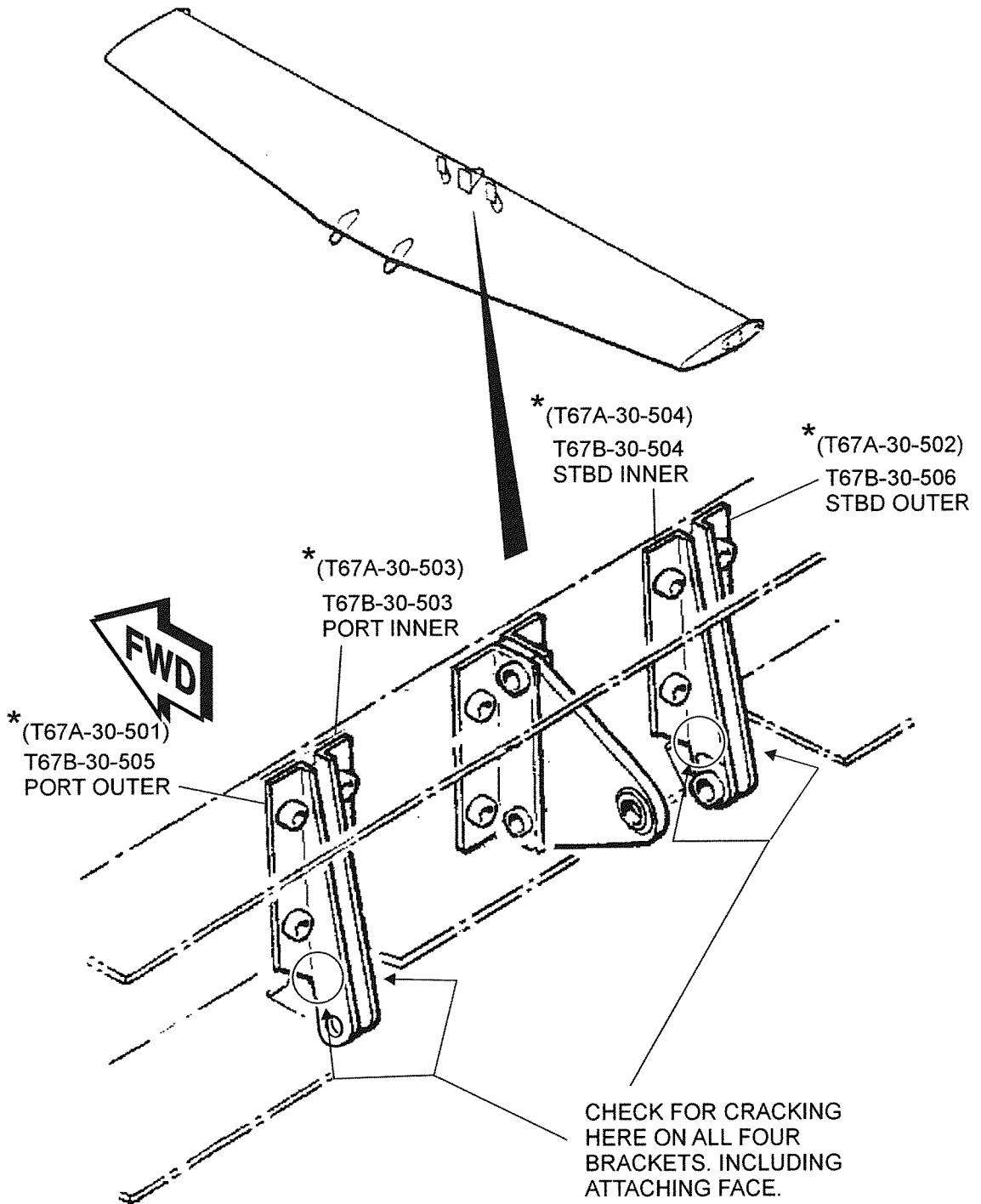
7. If brackets found cracked, then inform SAL of the following:

- Aircraft registration
- Total hours
- Total hours since Issue 1 inspection.
- Whether the brackets are cracked.
- Which brackets are cracked, eg port outboard, stbd inboard etc?

8. Annotate LogBook "SB 179 Issue 3 complied with".

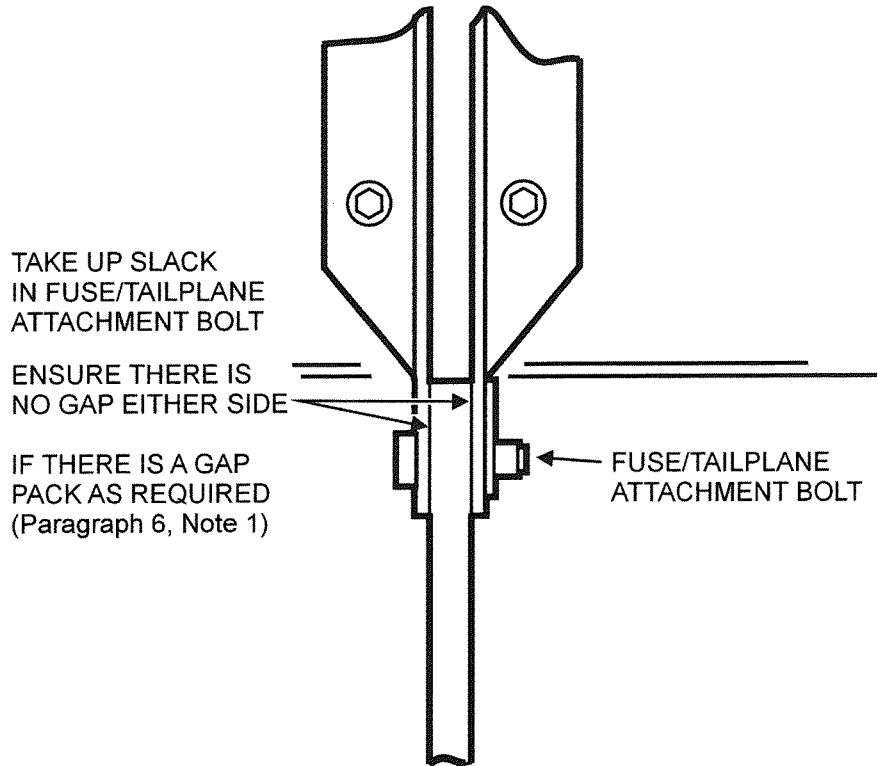
For information or replacement parts, please contact SAL Spares Controller.

Notification on availability of Mod M988 brackets will be by Information Bulletin.



*(APPLICABLE TO THE T67A ONLY)

FIGURE 1



PORT ATTACHMENT SHOWN
STARBOARD SIMILAR

FIGURE 2