

Service Bulletin

S.B. No: 165

Title: INSPECTION FOR WATER IN LEADING EDGE OF RUDDER PLUS ADDITION OF DRAIN HOLE

Classification: This Service Bulletin has been classified by SAL as Essential

Compliance: At next 50 flying hour check

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

INTRODUCTION:

A case has been reported of water accumulation in the lower 'D' box of the leading edge of the rudder.

This Service Bulletin requires an inspection and rectification to top hinge, plus a drain hole in the lower rib of the 'D' box, access of which is gained via a hole in the lower rudder fairing which is subsequently repaired.

This Service Bulletin is a one time inspection and rectification.

ACTION:

1. Remove rudder from aircraft in accordance with Maintenance Manual.
2. Mark position of 6mm (.25 inch) drain hole on the rudder horn. Carefully form a 25mm (1 inch) diameter access hole in the rudder lower fairing on centreline. Ref Fig. 1. This hole to be as directly under proposed drain hole as possible.
3. Carefully drill 6mm (.25 inch) diameter hole in the leading edge of the lower rib as shown in Figure 1.
Note 1: Drill through rudder horn fitting.
Note 2: Drill will also penetrate tapping plate 1.2mm (.048 inch) thick sandwiched in rib lay-up.
4. Drain out any water that may be present and allow to dry.
5. Inspect the upper rudder hinge lower closing rib bond, both to the rudder skin and spar for signs of bond failure Ref Figure 2. If a debond is found use a suitable feeler gauge to establish extent of failure.
6.
 - i) If bond has failed then clean joint and inject with Araldite 420. Allow to cure. Continue as per paragraph 7.
 - ii) If joint is sound then continue as per paragraph 7.

Approved by: 	Date: 20TH JAN. 00	Issue 1
For and on behalf of SLINGSBY AVIATION LIMITED	Page 1 of 4	
Kirkbymoorside, York. YO62 6EZ Fax No: 01751 431173	Tel: 01751 432474 E-mail: SAL5@Slingsby.co.uk	

7. Refer to Figure 2 and prepare area for laminating. Laminate 2 layers 92110 ✖ cloth over area shown, allow to cure. Laminate in accordance with T67 GRP Repair Manual.

Note: Ensure fitting is laminated around and that fitting has release agent or tape on it to prevent laminate contaminating hinge.
8. Paint resin into drain hole created at paragraph 3 and repair 25mm (1 inch) hole in rudder lower l/edge i.a.w. T67 GRP Repair Manual. Ensure existing access hole/drain hole is not blocked.
9. Refinish repaired areas in accordance with T67 GRP Repair Manual.
10. Annotate logbook "SB 165 complied with, Mod M906B incorporated".

For further information or materials please contact SAL Customer Support Department.

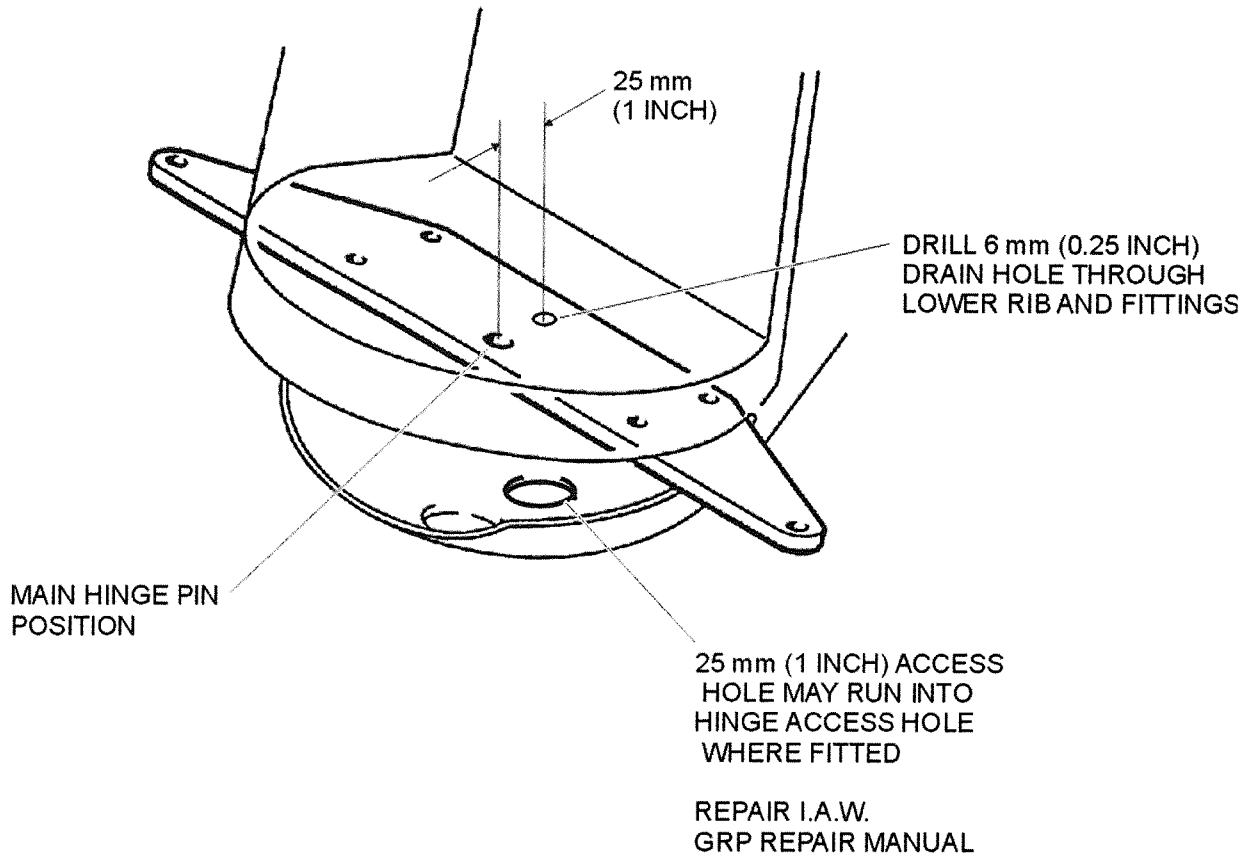


FIG 1
RUDDER LOWER HINGE

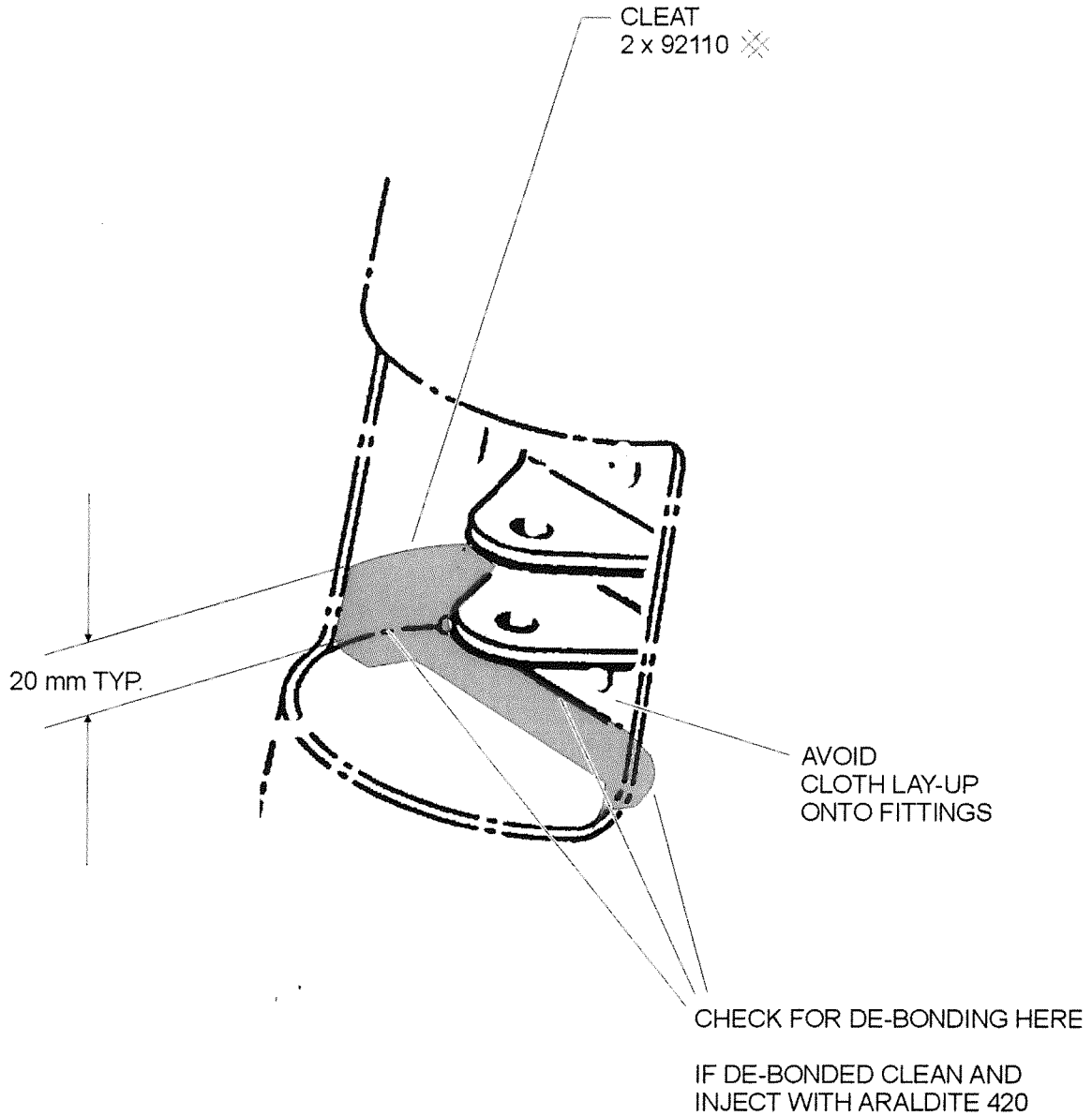


FIG 2
RUDDER TOP HINGE