

Service Bulletin

S.B. No: 160

Title: INSPECTION OF LOWER UNDERCARRIAGE MOUNTING BLOCKS FOR WATER INGRESS.

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

Compliance: At next Annual Inspection

Applicability: T67B, T67C, T67M, T67M-MkII, T67M200

INTRODUCTION:

There have been two cases found of water ingress into the wooden blocks of the main undercarriage lower mounting, which has caused the wood to rot.


These occurrences were found at SAL during annual inspections carried out on customers aircraft during which, for convenience, the main undercarriages were removed.

ACTION:

1.
 - i) At the next annual inspection check seals at undercarriage leg mounting plates for any gaps around seal faces that may allow water ingress. Inform SAL Product Support Department should poor sealing be suspected.
 - ii) Remove both main undercarriages from the aircraft in accordance with the relevant aircraft's Maintenance Manual.
2.
 - i) Inspect for moisture or rot on the exposed faces of the undercarriage leg mounting holes, the undercarriage mounting bolt holes and the brake pipe entry hole.

Should there be any doubt as to the integrity of the wooden mounting block, carefully drill a 12mm (½") diameter hole, to a maximum depth of 17mm, in the position shown on Fig 1, using a hand operated wood twist drill. Inspect removed material for high moisture content or rot.

- ii) Inspect the internal condition of the undercarriage mounting box for evidence of water ingress. If water has caused any damage ie delamination in the GRP structure or whitening of the surface resin, inform SAL Product Support.
 - iii) Inspect all seals for condition.

Approved by: 		
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- 3 Should all inspections at para. 2 i), ii) and iii) be considered to be satisfactory then proceed as follows:
- i) If an inspection hole had been cut to check for high moisture content/rot then repair as per Fig 2 and in conjunction with the T67 GRP Aircraft Repair Manual.
 - ii) Abrade and clean the brake line exit hole sides with MEK, then seal hole sides with PRC PR1005L sealant.
 - iii) Replace seals as required.
 - iv) Amend Spare/Illustrated Parts Catalogue to show items illustrated at Fig 3.
 - v) Annotate logbook "SB160 accomplished".
4. Should any of the inspections at para 2 i), ii) or iii) be considered to be unsatisfactory then proceed as follows:
- i) Ref para 2 i):
 - a) Should wooden block be found to be rotten invoke Mod M875 "Introduction of lower Main U/C mounting block - Repair." DOI T67B-389 refers.
 - b) Should wooden block be found to be moist or found to have been contaminated with water but considered structurally sound, inform SAL Product Support Department.
 - ii) Ref para 2 ii):
 - a) Ensure internal box structure is coated with PRC sealant I.A.W. Mod M198A, recognisable by red stain. If there is no evidence of sealant then apply Mod M198A sealant requirements or if sealant surface damaged then reapply sealant PRC PR1005L. Ensure Brake pipe exit hole is sealed with PRC PR1005L.
 - b) Ensure seals are in good condition, otherwise replace. If poor sealing is suspected at oleo cover, then check if Mod M239B has been invoked (recognisable by thick cover and 'O' ring under retaining screw), if Mod M239B is not fitted, it is then recommended that it is incorporated.
 - iii) Ref para 2 iii):
 - a) Renew seals as required. Refer to comments at Para's 1 i), 3 iv), 4 ii) b) and apply accordingly.
5. At each subsequent annual inspection, a visual inspection is to be applied to the following sealed areas, undercarriage mounting plate seal, brake pipe seal and oleo cover seals. Should any water ingress be suspected then reapply this Service Bulletin SB160.
6. Annotate logbook "SB160 complied with."

For replacement parts, materials, Mod Bulletins (M198A, M239B), Mod Kits and Repair Scheme, contact SAL Product Support Department.

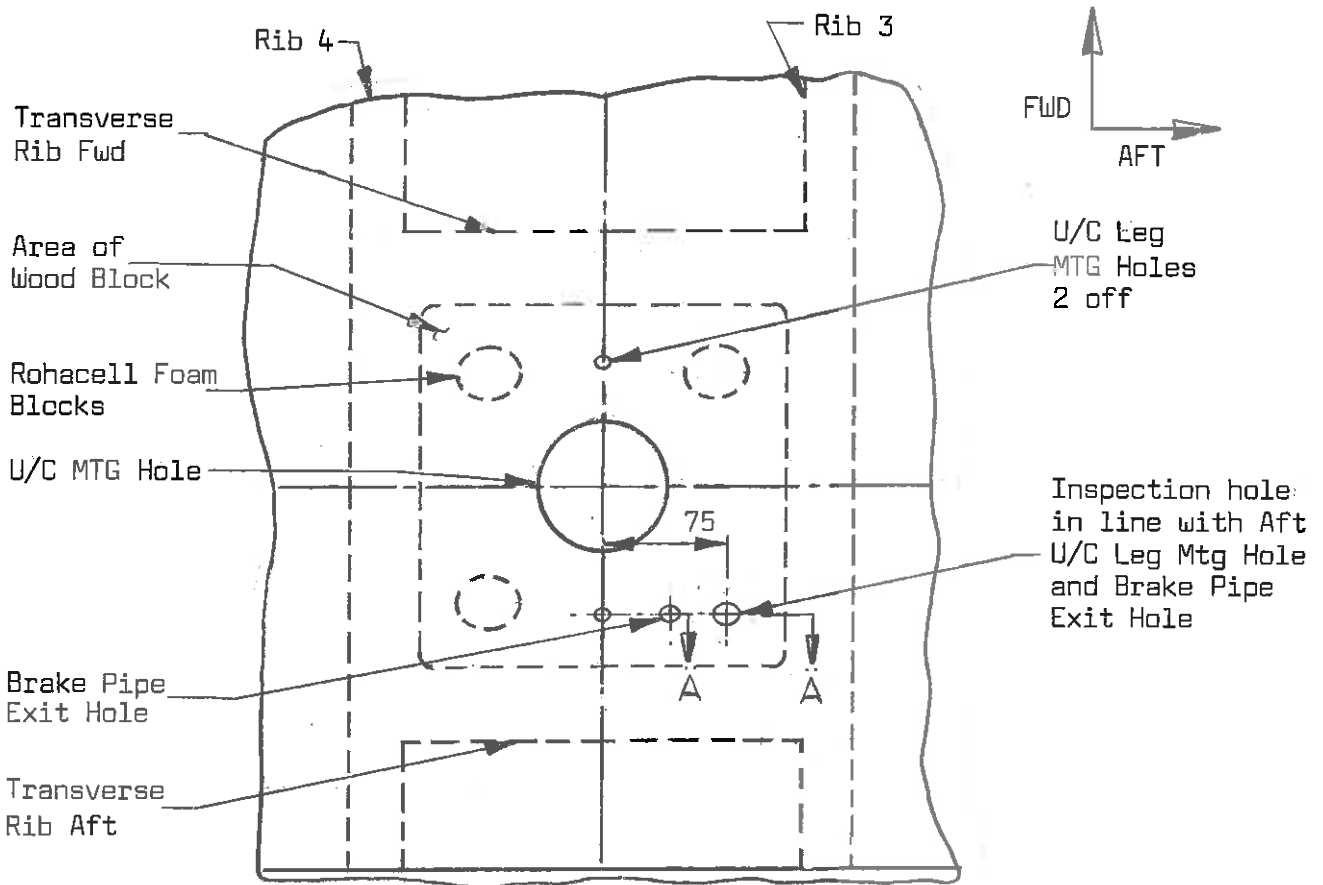
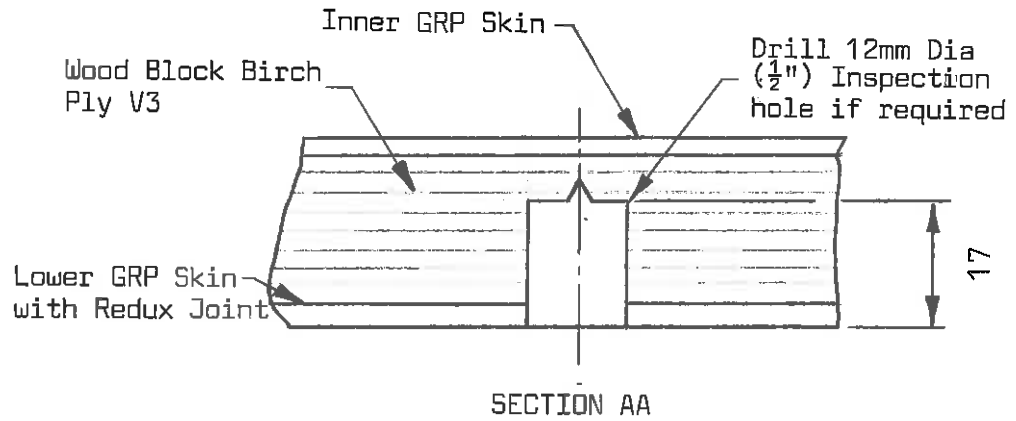


FIG 1

VIEW ON UNDERSIDE OF STBD WING
 (PORT SIMILAR)

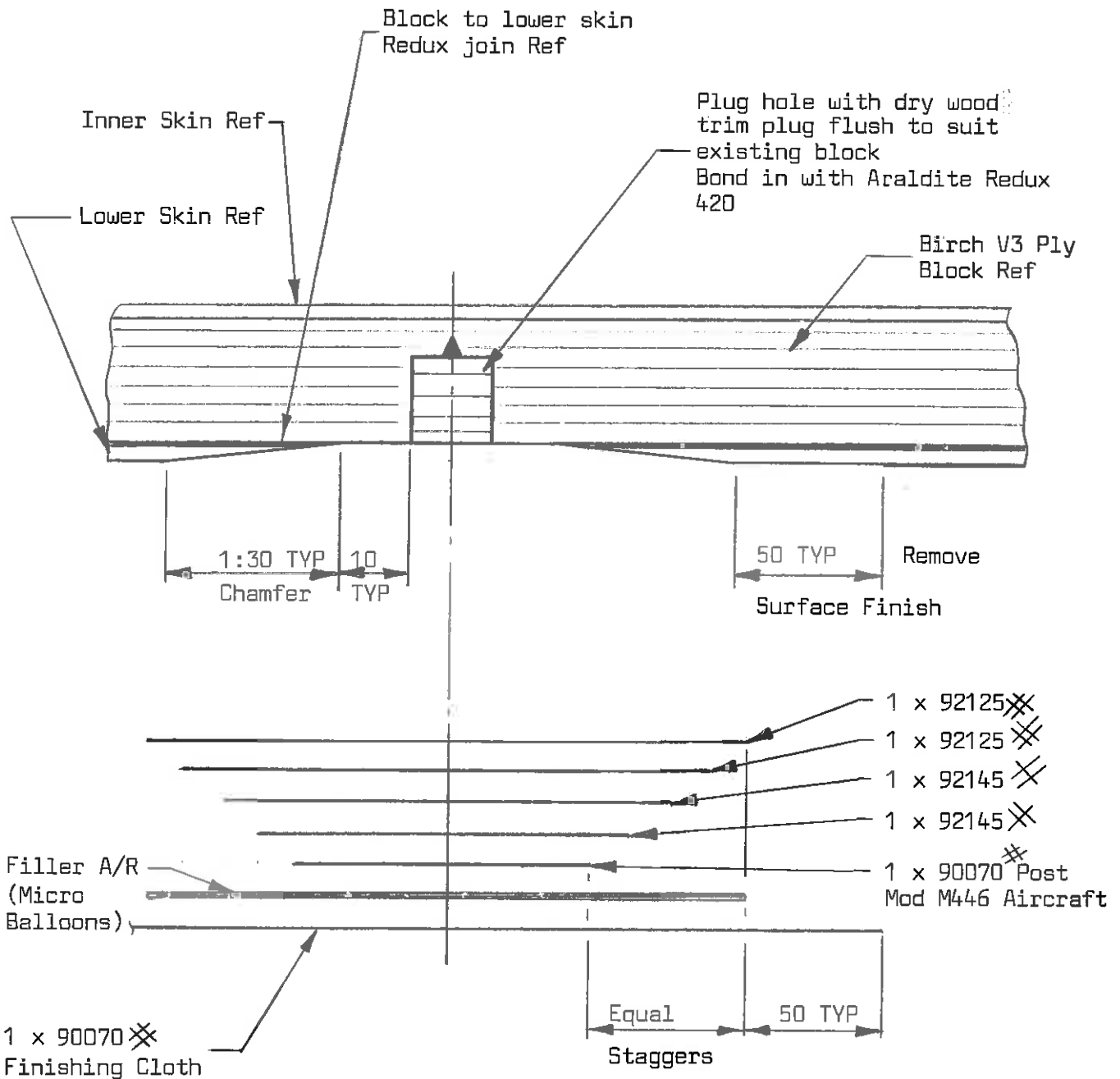


FIG 2

TYPICAL INSPECTION HOLE REPAIR
 USE IN CONJUNCTION WITH T67 GRP REPAIR MANUAL

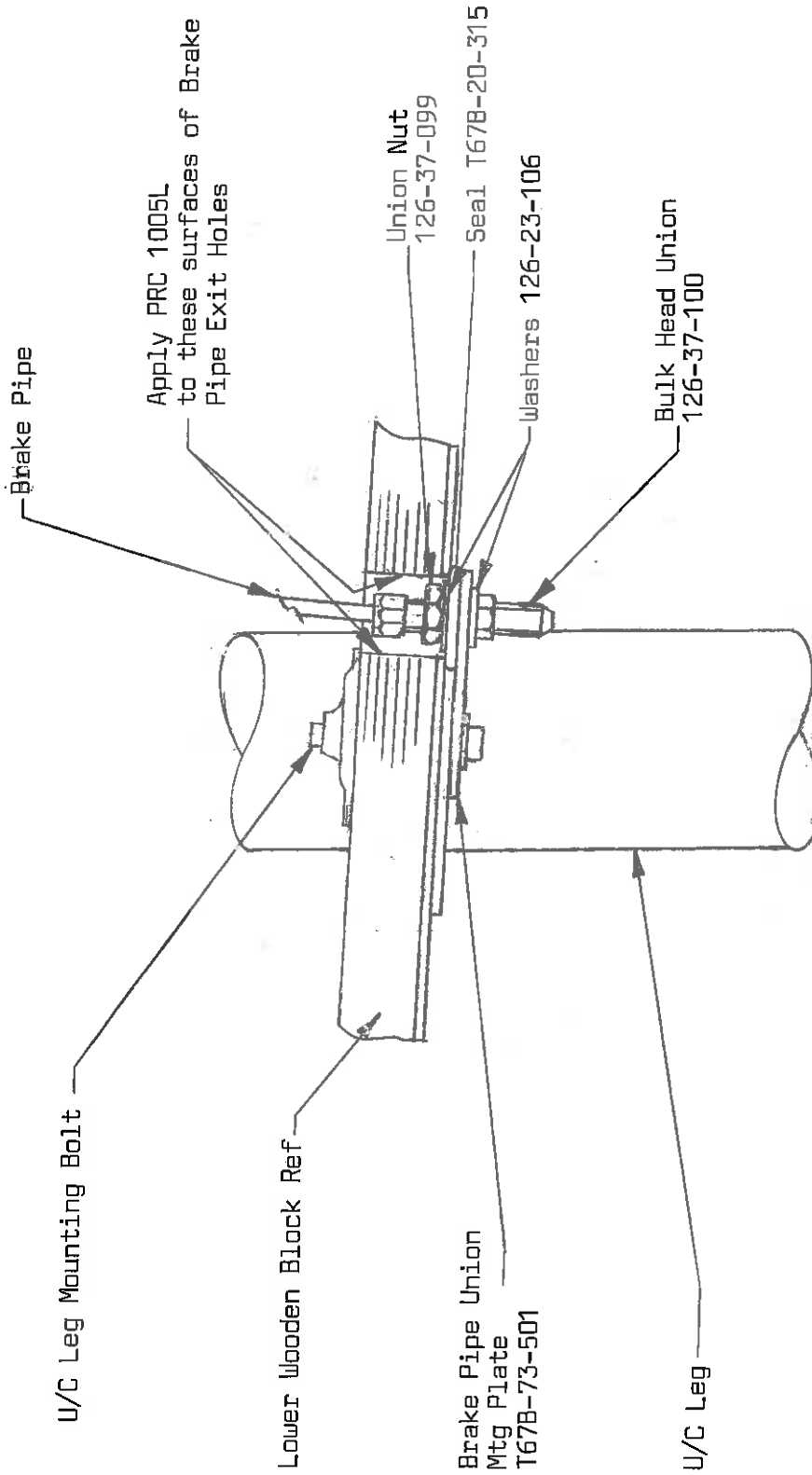


FIG 3

ITEMS FOR ADDITION TO IPC EDITION 3 AND EARLIER

(VIEW ON AFT OF PORT LEG STBD SIMILAR)