

TOPAS to WID Prod
WID EXP
Mr Harding

M. J. J. J.



ADP No HUU13200

SI/Hunter/132

20 January 1978

From: CENTRAL DEFECT AUTHORITY
Procurement Executive, Ministry of Defence, St Giles Court, St Giles High
Tel No. 01-632-6209 London WC2H 8J

A SI/HUNTER/132 A
FUSELAGE : HOOD RELEASE JETTISON MECHANISM CONNECTING ROD : CRACKING

- B 1 Hunter Aircraft: RAF T Mk7, T Mk7A, T Mk3B and Mk 12.
Royal Navy T Mk3C and Sea Harrier Programme : T Mk3D
- 2 Not applicable to stored equipment.

C Whilst a Hunter aircraft was undergoing a repair at the contractors' Plant. It was noticed, with the seat removed that, the rod connecting the canopy jettison mechanism to the release unit had broken at the threads.

Examination showed that although this was a tensile failure, there appeared to be a long standing crack of some 30% of the cross sectional area which was lightly corroded. The rod was also found to be slightly bent, indicating a possible initiation of the original crack by mechanical damage.

Should there be any cracked rods in Service, it is possible on selection of canopy jettison, that the rod would fail in tension, thereby failing to remove the seat from the Gas Gun, resulting in a failure of the canopy to be jettisoned clear of the airframe.

- D 1 a (1) (RAF & RN) Within 14 days of receipt of this Instruction and subsequently at:
- (2) (RAF) every 6 - monthly Seat Servicing
(RN) a periodicity of 23 weeks in conjunction with Flex Op 0.13
- b (1) Render the ~~aircraft~~ aircraft Escape System safe for Servicing ~~in accordance~~ current procedures.
- (2) Refer to the appropriate Aircraft Servicing Manual for the aircraft - Section 3, Chapter 1, Figure 10 & 12 and the Illustrated Parts Catalogue : Chapter J Plate J.E.I.
- (3) Using a mirror and a good light source, examine Rod Pt No. F215738 (Ref: 26FX/10050) for cracks and/or bending.
- (4) (a) Where cracking is suspected or the rod is bent:
(RAF) the escape system is to be dismantled and prepared for pull off tests in accordance with SP51B and SP52B respectively.
(RN) Remove seats and comply with Flex Op 0.13 Part A, Paragraphs (a) and (b) (less bay servicing requirements) at initial application.
- (b) (RAF) and RN) Disconnect rod from canopy firing unit seat and lower torque shaft. Retain with fixings.

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- A SI/HUNTER/131 A
MAIN UNDERCARRIAGE JACK: CYLINDER: CRACKING
- B 1 Hunter, all marks.
- 2 Post Mod Hunter 1348 Main Undercarriage Jacks: (Port), Pt No 103665001 (Ref 27QM/1448750) and (Stbd) Pt No 103665002 (Ref 27QM/1448752) held as spare or in store.
- C A case has occurred of a Post-Modification Hunter 1348 main undercarriage jack cylinder failing due to stress corrosion and cracking at the intersection between the main bore and the hole for the indicator assembly.
- D 1 a ~~RAF: At the next Primary Star Servicing after receipt of this instruction and subsequently at every minor servicing.~~
WITHIN 14 DAYS AND
RN: Within ~~3 months~~ *14 DAYS* and thereafter at a Periodicity of ~~50~~ *18* weeks.
- b (1) Ensure undercarriage is locked down.
- (2) Thoroughly clean the area of the main undercarriage jack cylinder surrounding the indicator switch mounting.
- (3) Using an approved paint stripper, remove paint from scan areas indicated in Fig 1 (attached).
- ... (4) Examine the cylinder in accordance with NDT Technique CSDE/Hunter/Ult/10. (RAF) *OR NATEC/HUNTER/SA (RN)*
- (5) Where no indication of cracking exists, restore surface finish using Epoxy Primer (Ref 33B/2242079) and paint grey (Ref 33A/224739)
- (6) Where cylinder crack indications are evident, the complete jack is to be replaced, ensuring functional and independent checks are carried out in accordance with current procedures.
- c Preparation and completion: 1 manhour (A Fitt A).
Examination: 1 manhour (NDT).
- 2 a Main undercarriage jacks listed at Para B2: before issue or installation.
- b Satisfy this Instruction.
- E 1 a RAF: Certify initial application on F720M and record on F4801.
RN: Record iaw AP(N) 140 Article 2213.
- b RAF: Call up subsequent application on Supplementary Servicing Record Sheet.

Check Pt no of Jack!

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