EASA AD No.: 2024-0176



Airworthiness Directive

AD No.: 2024-0176

Issued: 11 September 2024

Note: This Airworthiness Directive (AD) is issued by EASA, acting it is sordance with culation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 or 3.000.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Aprex I Part M.A.301, or Annex Vb Part M.A.301, as applicable, the continuing airworthiness of an aircraft shall be ensured by accome thing are opplicated ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of the Agency [Regulation (EU) 1321/2014 Annex I Part M.A.303, or Annex Vb Part M.A.303, as applied for agreed Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name: Type/M del designation(s):

FOKKER SERVICES B.V. F28 aer lanes

Effective Date: 18 September 2024

TCDS Number(s): EASA.A.037

Foreign AD: Not applicable

Supersedure: None

ATA 32 – Landing Gear – Main Landing Gerston Inspection

Manufacturer(s):

Fokker Aircraft B.V.

Applicability:

F28 Mark 0070 and Mark 0100 aer leases, equipped with a Collins Aerospace (Collins) main landing gear (MLG) having Part Number (P/N) to -16 (inclusive) or P/N 41060-3 to -6 (inclusive), except those that (already) to -15 ted Fokker Services Service Bulletin (SB) SBF100-32-172.

Definitions:

For the purpose of this AD, to follow g definitions apply:

Affected part: Any MLG programmer and by Collins having P/N 41141-5, which is modified by the Australian landing gear show kerospace NDI Pty Ltd (ANDI) in accordance with SB 41000-32-29.

Service part(s): M. In this his manufactured by Collins, having P/N 41141-5, which are not an affected part, as defined by this AD; or MLG pistons manufactured by Collins having P/N 41141-7.

The B: Feer Service SB SBF100-32-177.

Groups: Group 1 oplanes are those having an affected part installed. Group 2 aeroplanes are those which do not have an affected part installed.



EASA AD No.: 2024-0176

Reason:

An occurrence was reported where, during a pre-flight inspection (visual check) of a Fokker F28 Mark 0070 aeroplane, a crack was identified on the lower aft side of a right-hand spiston.

The following investigation revealed that the affected main landing gear unit had been over a led by an Australian landing gear shop, whereby the MLG piston had been modified; whereafter the P/N was changed from 41141-3 to 41141-5). The affected piston was sent to the ordinal equil ment manufacturer (OEM) Collins for detailed investigation, who, although the investigation ongoing, determined that the crack in the lower end of the piston original of from stress corrosion cracking, most likely caused by the determined lack of the required nicker plating in the wire conduit hole of the part.

This condition, if not detected and corrected, could lead to structure the re and consequent collapse of the MLG, possibly resulting in damage to the aeroplace and injurity occupants.

To address this potential unsafe condition, Fokker Services issued as SB, as defined in this AD, which provides instructions for a detailed inspection for cracking of the sected parts, as defined in this AD, and for replacement of each found cracked part

For the reason described above, this AD requires repetit properties of all affected parts and replacement of every found cracked part with a serviceable of defined in this AD.

Required Action(s) and Compliance Time(s):

Required as indicated by this AD, unless the act equire by this AD have been already accomplished:

Inspection(s):

(1) For Group 1 aeroplanes: Within 30 days after the effective date of this AD and, thereafter, before each first flight of the day access plish a detailed inspection of the lower aft side of each affected part in accordance with the structions of the SB, as defined in this AD.

Corrective Action(s):

(2) If, during any detailed in the pass required by paragraph (1) of this AD, any cracked affected part is detected, before next flight replace that affected part, or replace the complete MLG strut, in accordance to high the applitude instructions of the Fokker 70/100 aircraft maintenance manual.

Reporting:

(3) Within 15 days after the social inspection as required by paragraph (1) of this AD report the results (included no findings) to Fokker Services and, thereafter, report each finding detected during the following citions accomplished as required by paragraph (1) of this AD.

Terminating /

(4) Replacement on aeroplane of all affected parts with serviceable parts constitutes ating action for the repetitive inspections as required by paragraph (1) of this AD for that aeroplane, projected that, thereafter, no affected part, or MLG strut with an affected part installed. It is installed on that aeroplane.



EASA AD No.: 2024-0176

Parts Installation:

(5) For Group 1 and Group 2 aeroplanes: From the effective date of this AD, it is a fixed to install on any aeroplane an affected part or a MLG strut with an affected part installed provided that, before next flight after installation, the affected part passed an inspection [no crack found] in accordance with the instructions of the SB and, thereafter, it is reportively inspected as required by paragraph (1) of this AD.

Ref. Publications:

Fokker Services SB SBF100-32-177 original issue dated 04 September 20

The use of later approved revisions of the above-mentioned document is accompliance with the requirements of this AD.

Remarks:

- 1. If requested and appropriately substantiated, EASA can approach Alternative Methods of Compliance for this AD.
- 2. Based on the required actions and the compliance one, FosA have decided to issue a Final AD with Request for Comments, postponing the public operatation rocess until after publication. All interested persons may send their comments, reference AD Number, to the E-mail address specified in below Remark 3, prior to 30 October 2024. Only if any comment is received during the consultation period, a Comment response to the published in the EASA Safety Publications Tool, in a compressed (1997) and file, stached to the record for this AD.
- 3. Enquiries regarding this AD should be served to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@ceuropa.eu.
- 4. Information about any failures change cons, derects or other occurrences, which may be similar to the unsafe condition iddressed withis AD, and which may occur, or have occurred on a product, part or appliance in saff cted by his AD, can be reported to the EU aviation safety reporting system. This may include separate gon the same or similar components, other than those covered by the deal of which this AD applies, if the same unsafe condition can exist or may develop on an air saft with those components installed. Such components may be installed under an FAC Parts Manual cturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.
- 5. For any question containing the subnical content of the requirements in this AD, please contact: Fokker Services Technical Services Dept., P.O. Box 1357, 2130 EL, Hoofddorp, The Nethers, P.S.: Telepho e +31 88 6280 350, Fax +31 88 6280 111, or E-m: The technical Prices Tokkerservices.com.
 - referenced publication can be downloaded from www.myfokkerfleet.com.

