



## Airworthiness Directive of the Netherlands

Bijzondere Luchtwaardigheids Aanwijzing - BLA

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### Caution

*In accordance with the Civil Air Navigation Regulations (RTL), Articles 76 and 88, the following Airworthiness Directive (BLA) is issued by the Director-General of Civil Aviation of the Netherlands (Directeur-Generaal van de Rijksluchtvaartdienst-RLD). Airworthiness Directives affect aviation safety. These are regulations which require immediate attention. You are cautioned that no person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of the Airworthiness Directive.*

**BLA nr : 1999-028/3** (A)

Date : October 31, 2000

**FOKKER SERVICES B.V.**

(formerly Fokker Aircraft B.V.)

Model F.28 Mk.1000C, Mk.3000C and Mk.3000RC

RLD Type Certificate Nr.:

A23F

### DOORS - MAIN DECK LARGE CARGO DOOR HINGE - INSPECTION

#### Description:

- Last year, RLD received a report of a Fokker F.28 Mk.1000C operator, who discovered several fractured hinge lugs in the aluminium parts of the large cargo door hinge. After disassembly of the hinge, cracks were found in 16 lugs of a door-mounted hinge half and in a single lug of a fuselage-mounted hinge half. The cracking appeared to have originated from the hinge pin hole and extends into the flange. The suspected cause of these cracks is stress-corrosion, due to the type of material of which the affected parts are manufactured. The affected hinge halves are made from a 2024T4 aluminium extrusion, known to be sensitive to stress-corrosion cracking. On March 19, 1999, RLD issued Airworthiness Directive (BLA) 1999-028 that required repetitive visual inspections to prevent failure of the cargo door hinges and possible separation of the cargo door from the aircraft. Fokker Services have now proposed to introduce ultrasonic inspections that may be performed to replace the present visual inspections, at an extended inspection interval of 1 year. The RLD concurs and has decided to allow the ultrasonic inspections as an alternative means of compliance. BLA 1999-028 is hereby revised accordingly. Since the original unsafe condition is still likely to exist or develop on other aircraft of the same type design, this BLA requires repetitive visual- or ultrasonic inspections of the aluminium parts of the affected large cargo door hinges, and replacement, as necessary.

Applicability: **Fokker Aircraft B.V.** Model F.28 Mk.1000C, serial number (s/n) 11018, 11020, 11024, 11073, 11074, 11099 and 11102; Mk.3000C, s/n 11145, 11150 and 11162; and Mk.3000RC, s/n 11134, if Large Cargo Door Hinges Part Number (P/N) A39012-001, A39012-003, A39012-701, A39012-702, A39012-703, A39013-001 or A39013-003, are installed.

- Effective date: December 1, 2000

Compliance: Required as indicated, unless accomplished previously.

(a) Initially, within 3 years after installation of the hinges, or within the next two weeks after March 23, 1999 (the effective date of the first issue of this directive), whichever occurs later, visually inspect the affected (Main Deck) Large Cargo Door Hinges in accordance with Part 2 Accomplishment Instructions of Fokker Service Bulletin (SB) F28/52-114 dated March 9, 1999 or a later RLD-approved revision;

**Note :** Parts with unknown time since new must be initially inspected within the next two weeks after March 23, 1999, as required by paragraph (a) of this directive.

(b) After the accomplishment of the inspection as required by paragraph (a) of this directive, repeat the inspection at intervals not to exceed two weeks or 50 flight cycles, whichever occurs first, in accordance with Part 2 Accomplishment Instructions of Fokker SB F28/52-114 dated March 9, 1999 or a later RLD-approved revision;

(c) When, during any inspection as required by paragraph (a) and (b) of this directive, a hinge half is found cracked beyond the limits as described in Paragraph D. of Part 2 Accomplishment Instructions of Fokker SB F28/52-114, before further flight, replace the affected hinge with an airworthy part, P/N (old or new) as listed in Part 3 Material Information of the referenced SB;

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(d) As an alternative to paragraphs (a), (b) and (c) of this directive, the following procedures may be utilised:

(1) Initially, within 2 weeks or 50 flight cycles after the last visual inspection as required by paragraph (b) of this directive, whichever occurs first, ultrasonically inspect the aluminium parts of the Large Cargo Door Hinges in accordance with the Accomplishment Instructions of Fokker SB F28/52-116 dated October 13, 2000 or a later RLD-approved revision;

(2) Thereafter, at intervals not to exceed 12 months, repeat the ultrasonic inspection in accordance with the Accomplishment Instructions of Fokker SB F28/52-116 dated October 13, 2000 or a later RLD-approved revision.

(3) When, during any inspection as required by paragraph (d)(1) and (d)(2) of this directive, a hinge half is found cracked beyond the limits as described in Paragraph B. of Part 4 of the Accomplishment Instructions of SB F28/52-116, before further flight, replace the affected hinge with an airworthy part, P/N (old or new) as listed in Part 3 Material Information of the referenced SB.

(e) At any time, after replacement of the affected hinges by new material hinges having either P/N A39012-705, A39012-707, A39013-701 or A39013-703, as applicable, the inspections of paragraphs (a) and (b) or (d)(1) and (d)(2) of this directive, as applicable, are no longer required. Fokker SB F28/52-115 provides instructions for the installation of these new material hinges.

Remarks:

- Operators of the affected aircraft may obtain copies of the referenced service information upon request directly from **Fokker Services B.V., Technical Services Dept., P.O.Box 231, 2150 AE Nieuw-Vennep, The Netherlands; telephone (31) 252-627-350; facsimile (31) 252-627-211.**
- Compliance with this AD must be recorded in the proper Aircraft Log Book(s).
- Where applicable, the requirements of this AD must be integrated into the aircraft's Maintenance Schedule.
- This revision supersedes and cancels Airworthiness Directive (BLA) 1999-028/2 dated May 19, 1999.

Address inquiries concerning this AD to:

Information Office, Section CTI; telephone 31-(0)23-566 3155; facsimile 31-(0)23-562 3848; telex 74592 rldli nl  
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