



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 : 1996-142 (A)

Date : November 29, 1996

FOKKER SERVICES B.V.
(formerly Fokker Aircraft B.V.)

Model F.27 series

RLD Type Certificate Nr.:

A22F

LANDING GEAR - MLG ACTUATING RAM - MODIFICATION

Description:

Several Fokker Model F.27 operators have reported cases where the main landing gear (MLG) lockstruts had broken. Investigation revealed that this was due to loss of damping of the MLG actuating ram, which extends and retracts the MLG. The actuating ram is equipped with a damping chamber, filled with silicon fluid (oil), which is forced through a restrictor to dampen gear movement during extension. When the bobbin "O"-ring seal fails, fluid can leak past the seal, which may not always be noticed during regular maintenance. Fluid loss usually leads to a gradual loss of damping, which can be noticed by an increased rate of gear extension, or shaking of the aircraft during gear extension. Dunlop Limited, which manufactures the actuating ram, has now developed and successfully tested a modification (C2655) which replaces the current bobbin seals and back-up rings with improved seals. Since an unsafe condition has been identified that is likely to exist or develop on other aircraft of the same type design, this Airworthiness Directive (BLA) requires the replacement of MLG actuating ram bobbin and seals.

Applicability: **Fokker Aircraft B.V.** Model F.27 Mk.100 through Mk.700 series, all serial numbers, if equipped with Dunlop MLG Actuating Rams, Part Number (PN) AC67132, AC67134, AC67848, or AC67850.

Effective date: December 15, 1996

Compliance: Required as indicated, unless accomplished previously.

During the next scheduled or unscheduled overhaul or repair of the MLG actuating ram, or within the next 4,000 flight hours, or within the next 24 calendar months, whichever occurs first after the effective date of this directive, modify all affected MLG actuating rams, including units held as spares, in accordance with Dunlop Equipment Division Service Bulletin (SB) 32-1142 dated October 22, 1996 or a later CAA-approved revision. Fokker SB F27/32-168 dated October 23, 1996 also pertains to this subject.

Note: After December 31, 1997, Dunlop MLG actuating rams in pre-Mod.C2655-configuration may no longer be installed as replacement parts.

Remarks:

- Operators of the affected aircraft may obtain copies of the referenced service information upon request directly from the **Dunlop Limited Aviation Division, Technical Publications Dept., Holbrook Lane, Coventry CV6 4AA, United Kingdom; telephone (44) 1203-666 655; facsimile (44) 1203-668 736;** or from **Fokker Services B.V., Technical Support Dept., P.O.Box 75047, 1117 ZN Schiphol Airport, The Netherlands; telephone (31) 20-605-2136; facsimile (31) 20-605-2790.**
- Compliance with this AD must be recorded in the proper Aircraft Log Book(s).

Address inquiries concerning this AD to:

Bureau Coordination & Technical Information (CTI); Telephone 31-(0)23-566 3155; Facsimile 31-(0)23-562 3848; Telex 74592 rldli nl