



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 : 1995-065 (A)

Date : June 30, 1995

FOKKER AIRCRAFT B.V.

Model F.27 Mk.050 series

Type Certificate Nr.:

T-050-87

POWER PLANT - AIR BYPASS DUCT OUTLET OPENING - MODIFICATION

Description:

Service experience with the Fokker Model F.27 Mk.050 series has shown that in certain weather conditions, ice can build up in the engine air intake that may subsequently lead to power fluctuations if the ice is shedded into the engine. Over the past four years, Fokker Aircraft have introduced modifications to optimize the air intake duct heating (Service Bulletin (SB) F50-30-018) and to counteract electro-magnetic interference (EMI), which may lead to malfunctioning of the engine anti-icing system (SB's F50-30-021, F50-71-037, F50-34-034 and F50-30-020, and later RLD-approved revisions or superseding Service Bulletins). These changes did not, however, completely eradicate the cause of the power fluctuations. Fokker then developed an aerodynamic improvement, consisting of an enlargement the air bypass duct outlet opening, which was based on flight tests in natural icing conditions and confirmed in full-scale wind tunnel tests. Tested in-service over the past 18 months, this modification has shown to reduce ice build-up in the air intake duct and to reduce the possibility of ingestion of shedded ice into the engine. Since the unsafe condition described may still exist or develop on other aircraft of the same type design, this Airworthiness Directive (BLA) requires the modification of the air outlet opening of the engine air bypass duct.

Applicability: Fokker Aircraft B.V. Model F.27 Mk.050 series, serial numbers 20103 through 20296, 20304, 20305, 20308 and 20311.

Effective date: July 15, 1995

Compliance: Required within the next three (3) calendar months after the effective date of this airworthiness directive, unless accomplished previously.

Accomplishment: In accordance with Fokker SB F50-71-041 dated November 10, 1993 or a later RLD-approved revision.

Remarks:

- Operators of the affected aircraft may obtain copies of the referenced service information upon request directly from **Fokker Aircraft B.V., Technical Support Turboprop Aircraft (MPTT), Attn. Manager Airline Support, P.O. Box 12222, 1100 AE Amsterdam Zuid-Oost, The Netherlands; telephone (31) 20-605-7379; facsimile (31) 20-605-7555.**
- 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)2503-63155; Facsimile 31-(0)2503-40741; Telex 74592 rldli nl