



## Airworthiness Directive of the Netherlands

Bijzondere Luchtwaardigheids Aanwijzing - BLA

Correspondence address  
P.O. Box 575, 2130 AN Hoofddorp, The Netherlands

### 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 : 2001-041 (A)

Date : March 30, 2001

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

Model F.28 Mk.0070, Mk.0100

RLD Type Certificate Nr.:

T-100-87

### ICE & RAIN PROTECTION - No.1 PITOT TUBE AC SENSING CIRCUIT - CHECK/MODIFICATION

#### Description:

Recently, a Fokker 100 (F.28 Mk.0100) operator reported the loss of Indicated Airspeed (IAS) on the captain's speed indicator during a flight in icing conditions. The initial inquiry revealed that the No.1 Pitot Tube heating system had failed, due to a short circuit in one of the heater elements. Further investigation showed that a short circuit in the No.1 Pitot Tube heaters can stay undetected, due to the characteristics of the DC/AC inverter supplying the AC current to the heater. This condition, if not corrected, may lead to further occurrences of undetected short circuits in No.1 Pitot Tube heaters, with consequent loss of captain's airspeed indication when in icing conditions. 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 modification of the No.1 Pitot Tube AC Sensing Circuit to ensure the detection of future short circuits.

During the period between the effective date of this BLA and completion of above modification, repeated operational checks of the No.1 Pitot Tube Heating System are required to make certain that both Pitot Tube- and Mast heaters are serviceable.

Applicability: **Fokker Aircraft B.V.** Model F.28 Mk.0070 and Mk.0100, all serial numbers, if in post-SB F100-30-019 or post-SB F100-30-020 -configuration (BLA 1994-114 issue 4 also refers).

Effective date: May 1, 2001

Compliance: Required as indicated, unless accomplished previously.

(1) Within the next 3 calendar months after the effective date of this directive and thereafter at intervals not to exceed 12 months, perform an operational check of the No.1 Pitot Tube Heating System to establish whether both tube and mast heaters are serviceable, in accordance with Part 1 of the Accomplishment Instructions of Fokker Service Bulletin (SB) F100-30-025 Revision 1 dated March 14, 2001 or a later RLD-approved revision;

(2) If heat is not present in either heating element, before further flight, replace the defective No.1 Pitot Tube with a serviceable unit of the same Part Number;

(3) Within ten days after each operational check as required by paragraph (1) of this directive, report all findings to Fokker Services, address indicated below;

(4) Within the next 3 calendar years after the effective date of this directive, modify the No.1 Pitot Tube Alternating Current (AC) Sensing Circuit in accordance with Part 2, 3, 4, 5 or 6, as applicable, of the Accomplishment Instructions of Fokker SB F100-30-025 Revision 1 dated March 14, 2001 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 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).

Address inquiries concerning this AD to:

Aircraft Division, Section CTI; telephone 31-(0)23-566 3155; facsimile 31-(0)23-566 3006; telex 74592 rldli nl  
E-mail "info.register@rld.minvenw.nl"