



Lufttüchtigkeitsanweisung (LTA) Consigne de Navigabilité (CN) Direttive sulla Navigabilità (DN) Airworthiness Directive (AD)		FOCA AD HB-2011-005
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	10 August 2011	Pilatus – PC-7 MkII FOCA TC/TCDS No: F 56-25

Issue Date: 27 July 2011

ATA Chapter: ATA 57 – Wings

Subject: **Wings – LH & RH Outboard Aileron Bearing Brackets – Inspection**

Supersedure / Revised AD(s): Not applicable

Type Certificate Holder's Name: Pilatus Aircraft Ltd.

Manufacturer(s): Pilatus Aircraft Ltd.

Applicability: Model PC-7 MkII aircraft, Manufacturer Serial Numbers (MSN) 010, MSN 101 through MSN 160, MSN 601 through MSN 604, MSN 608 through MSN 616 and MSN 675 through MSN 684 inclusive, without Service Bulletin 57-012 accomplished.

Reason: This Airworthiness Directive (AD) is prompted due to the discovery of cracks in the outboard aileron bearing brackets. The cracks are caused by stress corrosion. It is possible for stress corrosion cracks to occur in brackets initially made of aluminium alloy 2024-T351. Later in production, the material specification was changed to aluminium alloy 2124-T851 to decrease the risk of stress corrosion. The Part Number (P/N) of the brackets remained the same.

Such a condition, if left uncorrected, could lead to failure of the brackets and possible jammed or lost aileron in flight.

In order to correct and control the situation, this AD requires a one-time check to identify the material specification and inspect those affected brackets that are made of aluminium alloy 2024-T351. Any brackets found to be cracked are to be replaced prior to further flight.

Required Action(s) and Compliance Time(s): Required as indicated below, unless already accomplished:

- (1) Within 1 month after the effective date of this AD, perform a conductivity test to identify the material specification of the brackets (LH, P/N 557.22.09.281 & RH, P/N 557.22.09.282) as required by paragraph (§) 3.B. of PILATUS PC-7 MkII Service Bulletin No. 57-011.
- (2) If during the conductivity test required by § (1) of this AD, brackets made of aluminium alloy 2024-T351 are found, prior to further flight, perform the inspection in accordance with (§) 3.C. of PILATUS PC-7 MkII Service Bulletin No. 57-011.

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Note 1: The Aircraft Maintenance Manual (AMM) will be updated to include a repeat inspection of all brackets made of aluminium alloy 2024-T351.

- (3) If during the inspection required by § (2) of this AD, cracks are found in the LH or RH brackets, prior to further flight, replace the brackets in accordance with PILATUS PC-7 MkII Service Bulletin No. 57-012.

Ref. Publication(s): PILATUS PC-7 MkII Service Bulletin No. 57-011, initial issue.
PILATUS PC-7 MkII Service Bulletin No. 57-012, initial issue.

The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.

For further information contact: The applicable manufacturer's documentation may be obtained directly from:

PILATUS AIRCRAFT LTD.
Customer Technical Support (MCC)
P.O. Box 992
CH-6371 Stans, Switzerland

Tel.: +41 (0)41 619 32 22 Fax: +41 (0)41 619 67 73
E-mail: Techsupport@pilatus-aircraft.com

For further information contact:

FEDERAL OFFICE OF CIVIL AVIATION (FOCA)
Design and Production (STEH)
CH-3003 Bern, Switzerland

Fax: +41 (0) 31 322 59 18
E-mail: airdir@bazl.admin.ch