

Bundesamt für Zivilluftfahrt (BAZL) Office fédéral de l'aviation civile (OFAC) Ufficio federale dell'aviazione civile (UFAC) Federal Office for Civil Aviation (FOCA) Maulbeerstrasse 9 CH-3003 Berne Switzerland	Lufttüchtigkeitsanweisung (LTA) Consigne de Navigabilité (CN) Prescrizione di Aeronavigabilità (PA) Airworthiness Directive (AD)	FOCA AD HB 2003-196
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	PILATUS - PC-7 FOCA TC/TCDS No.: F 56-20 ATA 57	

TITLE: PILATUS AIRCRAFT LTD. – PC-7
MAIN SPAR DIHEDRAL FITTINGS - Inspection/Modification.

APPLICABILITY:

PILATUS AIRCRAFT LTD.

Model PC-7 airplanes.

All Manufacturers Serial Numbers (MSN) 101 up to and including MSN 618 that have accumulated more than 3000 flight hours or have been in service 10 years or more with left and right forward and aft main spar dihedral fittings P/N:111.34.07.469, P/N:111.34.07.470, P/N:111.34.07.471, P/N:111.34.07.472 installed.

REASON:

This Airworthiness Directive (AD) is prompted by a report where during scheduled maintenance inspection the wing dihedral fittings were found to be cracked due to stress corrosion on some airplanes. Complete failure of both the forward and aft dihedral fittings on the same side of the wing would allow the wing to fail at the kink under negative g maneuvers.

To prevent failure forward and aft dihedral fittings this Airworthiness Directive (AD) requires inspections of the left and right forward and aft dihedral fittings for cracks reporting of the inspection results to PILATUS and modification of the aft dihedral fittings (bolt holes) if no cracks are found.

COMPLIANCE:

Required as indicated below, unless already accomplished.

(a) Within the next 3 calendar months after the effective date of this AD, accomplish the following:


INSPECTION/MODIFICATION

AFT DIHEDRAL FITTINGS

- (1) Perform an Impedance-Plane Eddy-Current Inspection to detect cracking of the aft dihedral fittings P/N:111.34.07.469, P/N:111.34.07.470.
- (2) If during the inspection required by paragraph (a)(1) of this AD no cracks are found in all four bolt holes; within 12 months after the inspection; modify and inspect the aft dihedral fitting and spar-cap bolt holes in accordance with Section 3 paragraph D and E of PILATUS PC-7 Bulletin No. 57-006 Revision 3.
- (3) If during the inspection required by paragraph (a)(1) of this AD cracks are found within limits given in the acceptance/rejection criteria of the of PILATUS PC-7 Bulletin No. No. 57-006 Revision 3, dated 15 January 2003; repeat inspections thereafter at intervals stipulated in Aircraft Maintenance Manual Temporary Revision No.05-12, (AMM 05-10-00), dated 29 November 2001, in accordance with latest maintenance manual instructions.
- (4) If during the inspection required by paragraph (a)(1) of this AD cracks are found out of the limits given in the acceptance/rejection criteria of the of PILATUS PC-7 Bulletin No. No. 57-006 Revision 3, dated 15 January 2003; do not fly the aircraft until PILATUS has made an analysis of the results. PILATUS will make a decision on the repair, replacement or inspection frequency necessary for each aircraft.

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FORWARD DIHEDRAL FITTINGS

- (5) Perform a Radiographic Inspection to detect cracking of the of the forward dihedral fittings P/N:111.34.07.471 and 111.34.07.472. Reject fittings with crack indication. Do not fly the aircraft until PILATUS has made an analysis of the results. PILATUS will make a decision on the repair, replacement or inspection frequency necessary for each aircraft.

(b) PUBLICATIONS:

The actions required by this AD shall be done in accordance with the manufacturer's documentation listed in this paragraph as applicable and/or later revisions approved by the Swiss Federal Office for Civil Aviation (FOCA).

- PILATUS PC-7 Bulletin No. No. 57-006 Revision 3, dated 15 January 2003.
- PILATUS PC-7 Maintenance Manual Temporary Revision No.05-12 (AMM 05-10-00), dated 29 November 2001.
- PILATUS PC-7 Maintenance Manual Temporary Revision No.57-08 (AMM 57-40-01), dated 22 April 2003.

The applicable manufacturer's documentation may be obtained directly from:

PILATUS AIRCRAFT LTD
CUSTOMER LIAISON MANAGER
CH-6371 STANS , Switzerland

TEL No.: +41 41 619 6509 (Government)
FAX No.: +41 41 619 6170
E-Mail : rpaterson@pilatus-aircraft.com

FOR FURTHER INFORMATION CONTACT:

FEDERAL OFFICE FOR CIVIL AVIATION (FOCA)
Type Certification (MZ)
Maulbeerstrasse 9
CH-3003 Berne, Switzerland

FAX No.: +41 31 325 8051 (or)
FAX No.: +41 31 322 5918

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