

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-2005-079
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	PILATUS – PC-12 FOCA TC/TCDS No: F56-30 ATA 30 – ICE AND RAIN PROTECTION	

Issue date: 11 February 2005

Subject: WINDSHIELD DEICE SYSTEM WIRING – Inspection / Replacement

Superseded/Revised ADs: Not applicable

1. APPLICABILITY:

PILATUS AIRCRAFT LTD.

Model PC-12 and PC-12/45 airplanes, Manufacturer Serial Numbers (MSN) 322 thru MSN 400 inclusive.

2. REASON:

This Airworthiness Directive (AD) is prompted after a report of a Co-Pilots windshield deices system failure. The cause of the defect was found in an overheating of the return wire from the windshield heating system. Investigation revealed that the installation of the wiring in question was not in accordance with the specifications given in the applicable wiring diagrams (incorrect American Wire Gage [AWG]). This could result in heat damage of the concerned wiring and as a consequence, electrical arcing or possible fire in the overhead panel in the flight-compartment.

In order to correct the condition described, this AD requires the inspection for signs of heat damage of electrical parts and for cables of incorrect AWG and the replacement of heat damaged parts and wires, if necessary.

3. COMPLIANCE / ACTION:

Required as indicated below, unless already accomplished:


Within the next 10 hours time-in-service but not later than three calendar months after the effective date of this AD:

3.1. INSPECTION / REPLACEMENT

- 3.1.1. Perform an inspection for signs of heat damage of the wires, splices and related link wires in the area of terminal block (TB152) in accordance of paragraph 3 of PILATUS PC-12 Service Bulletin No. 30-009. No heat damage is permitted.
- 3.1.2. Perform a check of the wires and related link wires to verify that wires of correct size (AWG) are installed as specified.
- 3.1.3. If any signs of heat damage or incorrect wiring are found during the inspection required by paragraph 3.1.1. and 3.1.2. of this AD, prior to further flight, replace them in accordance with PILATUS PC-12 Service Bulletin No. 30-009.

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4. REF. PUBLICATIONS:

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

Manufacturer's Documentation

- PILATUS PC-12 Service Bulletin No. 30-009, dated 25 January 2005
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The applicable manufacturer's documentation may be obtained directly from:

PILATUS AIRCRAFT LTD.

CH-6371 STANS, Switzerland

CUSTOMER SUPPORT MANAGER

TEL No.: +41 41 619 6208

FAX No.: +41 41 619 7311

Email: SupportPC12@pilatus-aircraft.com

5. FOR FURTHER INFORMATION CONTACT:

FEDERAL OFFICE FOR CIVIL AVIATION (FOCA)

Design and Production (STEH)

Maulbeerstrasse 9

CH-3003 Berne, Switzerland

FAX No.: +41 31 325 9324 (or)

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