

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 2000-393
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	PILATUS - PC-12 FOCA TC/TCDS No.: F 56-30	Supersedes HB 2000-008

**PILATUS AIRCRAFT LTD. – PC-12 and PC-12/45
WINDSHIELD DE-ICE SYSTEM WIRES AND CIRCUIT BREAKERS**

Applicability :

PILATUS AIRCRAFT LTD.

- (1) All Model PC-12 and PC-12/45 airplanes from MSN 201 up to and including MSN 320, which have the new windshields PILATUS P/N: 959.81.10.107 LH and 959.81.10.108 RH (PPG P/N: NP172121-5 LH and NP172121-6 RH) installed.
- (2) All Model PC-12 and PC-12/45 airplanes from MSN 101 up to and including MSN 200 in which the old windshields were replaced with the new PILATUS P/N: 959.81.10.107 LH and 959.81.10.108 RH (PPG P/N: NP172121-5 LH and NP172121-6 RH) windshields.

NOTE : *The windshields can be identified by the presence of three imbedded temperature sensors on the outboard edge of the windshield.*

Effective Date : **September 06, 2000.**

Reason :

Intermittent tripping of the windshield heater circuit breaker has been experienced during prolonged operation of the windshield heating system in the 'LIGHT' mode on aircraft having the enlarged heated area windshield.


The power-supply circuit breakers of the LH and RH windshield ice and rain protection system are prone to trip (open) and de-energize the system during flight in very cold Outside Air Temperature (OAT) conditions, if LIGHT position is selected.

If the LIGHT position is selected (which heats the complete windscreen), the electrical load of the LH and RH windshields can become too high during flight at cruise altitudes. This is due to the cold OAT which decreases the electrical resistance of the windshield heater elements. Tripping of the circuit breaker renders the complete windshield heating powerless, which then could lead to icing of the windscreen.

This Airworthiness Directive (AD) supersedes an existing AD (HB 2000-008) that currently requires the amendment of the Limitations Section of the PC-12 Pilot's Operating Handbook (POH/AFM) with a Temporary Revision and the installation of a placard on the DE-ICING panel, prohibiting the operation of the windshield heating system in the "LIGHT" mode.

The present AD HB 2000-393 requires replacement of the existing POH/AFM Temporary Revision with a new Temporary Revision and the verification/installation of a placard adjacent to the windshield heating switch, prohibiting the operation of the windshield heating system in the "LIGHT" mode. Furthermore this AD requires modification of the windshield de-ice system; increase of the power supply circuit breaker rating to 40 Amps and wire gauges increase of the connected wires. Additional 30 Amps circuit breakers are installed, in each power supply wire connecting the windshields and their controllers.

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Compliance : (Required as indicated, unless already accomplished)

To prevent ice accumulation due to loss of electrical power to the windshield heating , accomplish the following

(a) Required within 14 days after the effective date of this Airworthiness Directive;

- (1) Remove Temporary Revision No.14 and insert Temporary Revision No. 21 into the Limitations Section (Section 2) of the PC-12 Pilot's Operating Handbook (POH/AFM) to include the following *statement and operate aircraft accordingly.

*Operation of the DE ICING LH WSHLD and RH WSHLD switch to the LIGHT position is prohibited.

- (2) Check for presence or install if necessary, the placard referenced in the POH/AFM Temp Rev. No. 21 on the DE ICING panel, to the right of the RH WSHLD switch, positioned between the landing gear indications and the silencer switch.

(b) Within the next 200 hours time-in-service(TIS) or the next annual inspection after the effective date of this AD, whichever occurs first;

- (1) Modify the windshield de-ice system wires and circuit breakers in accordance with the Accomplishment Instructions of PILATUS PC-12 Service Bulletin No. 30-006, dated May 22,2000, or later revisions approved by the Swiss Federal Office for Civil Aviation (FOCA).

(c) After modification:

- (1) Incorporation of PILATUS PC-12 Service Bulletin No. 30-006, dated May 22,2000 constitutes terminating action for the requirements of paragraph (a) (1) and (a) (2) of this AD. The POH/AFM Temporary Revision and the placard may be removed after accomplishment of this modification.

Reference:

- PILATUS PC-12 Pilot's Operating Handbook – POH /AFM Temporary Revision No. 21,dated May 19,2000.
- PILATUS PC-12 Service Bulletin No. 30-006,dated May 22,2000 or later revisions approved by the Swiss Federal Office for Civil Aviation (FOCA).

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

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For further information contact :

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