

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 98-460
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	PC-12 Series FOCA TC No.: F 56-30	

Betroffene Muster - Types concernés - Applicabilità - Models affected

PILATUS AIRCRAFT LTD.

1. All Model PC-12 and PC-12/45 airplanes.
Manufacturers Serial Numbers : MSN 101 up to and including MSN 236.
2. All flap actuators P/N 951D100- held as spare.

Anlass / Massnahmen - Objet / Mesures - Oggetto / Provvedimenti - Subject / Action

- FLAP ACTUATORS**
- Insertion of Temporary Revision into POH /AFM.
 - Inspection/Check of flap actuators.
 - Insertion of Temporary Revision into the AMM.
 - Repetitive inspections according AMM.

Fristen - Délais- Scadenza – Compliance (Required as indicated , unless already accomplished)

As detailed in page 2 and 3 of this Airworthiness Directive.

Herkunft - Provenance - Provenienza - Origin

FOCA Airworthiness Directive.

Bezugnahme - Référence - Riferimento - Reference

- Pilatus PC-12 Service Bulletin PC-12 No. 27-005, dated November 18,1998.
- Pilatus PC-12 Maintenance Manual Temporary Revision No. 04-01 and 27-04 dated November 18,1998.
- Pilatus PC-12 Pilot's Operating Handbook – AFM/POH Temporary Revision No.4 dated November 18,1998.

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

PILATUS AIRCRAFT LTD


MARKETING SUPPORT DEPARTMENT
CH-6370 STANS
SWITZERLAND

TEL. No.: +41 41 619 6233
FAX No.: +41 41 610 3351

Bemerkungen - Observations - Osservazioni - Remarks

- For details refer to page 2.

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**HB 98-460 PILATUS AIRCRAFT LTD. – PC-12 and PC-12/45
FLAP ACTUATORS – Inspection.**

Applicability :

PILATUS AIRCRAFT LTD.

1. All Model PC-12 and PC-12/45 airplanes.
Manufacturers Serial Numbers : MSN 101 up to and including MSN 236.

2. All flap actuators P/N 95D100-held as spare

Effective Date : November 23,1998.

Reason :

Several flap actuators have been found with excessive backlash in the internal gear system. Excessive backlash may lead to rapid premature wear of the gear and in extreme cases to loss of actuator output. Internal failure of the worm gear could allow an actuator to turn freely. Detection of all potential failure modes by the flap control computer cannot be assured.

Compliance : (as indicated, unless already accomplished)

To prevent failure of the flap actuator due to premature wear of the gear as a consequence of excessive backlash in the internal gear system of the flap actuator, accomplish the following:

1.) Before further flight:

- a) Amend the PC-12 Pilot's Operating Handbook (POH) with POH /AFM Temporary Revision No.4 and operate aircraft accordingly.
All flights with PC-12 and PC-12/45 airplanes must be conducted with the wing flaps in its retracted position. Flaps shall not be operated in flight at any time – except for emergency conditions- before accomplishment of PILATUS PC-12 Service Bulletin 27-005.

2.) Within the next 15 Landings, but not later than 30 days after the effective date of this AD:

- a) Perform a one time inspection to check the axial end-play and backlash of each flap actuator in accordance with the Accomplishment Instructions of PILATUS PC-12 Service Bulletin No. 27-005, dated November 18,1998.

- b) Remove all actuators which do not fulfill the criteria indicated in PILATUS PC-12 SB No. 27-005, dated November 18,1998 and replace with a serviceable part before further flight.
Ensure that spare parts also have been inspected in accordance with PILATUS PC-12 SB No. 27-005, dated November 18,1998.

- c) Record data on the Data Sheet which is part of the Service Bulletin and submit this report by FAX to PILATUS AIRCRAFT LTD.

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- 3.) Amend Aircraft Maintenance Manual (AMM) with Temporary Revision No: 04-01 and 27-04.
- 4.) Perform repetitive inspections to check backlash play of each flap actuator at intervals stipulated in Aircraft Maintenance Manual (AMM) Temporary Revisions No: 04-01 and 27-04 and/or further FOCA approved revision in accordance with latest maintenance manual instructions.

The actions required by this AD shall be done in accordance with the Accomplishment Instructions of PILATUS PC-12 Service Bulletin No. 27-005, dated November 18, 1998.

Note 1:

- Depending on result of the inspections required by PILATUS PC-12 Service Bulletin No. 27-005 The POH/AFM Temporary Revision No.4, required by paragraph 1)(a) of this AD, may be removed. For criterias refer to Aircraft Maintenance Manual AMM Temporary Revision No.04-01 and/or further FOCA approved revision.

NOTE 2:

- An exemption, deviation or extension of the compliance time may be used if approved by the National Airworthiness Authority.

FOR FURTHER INFORMATION CONTACT :

FEDERAL OFFICE FOR CIVIL AVIATION (FOCA)
Type Certification Section (FM),
Maulbeerstrasse 9
CH-3003 Berne, Switzerland Fax (+41) 31 325 80 48.

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