

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-2005-128
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	PILATUS – PC-12 FOCA TC/TCDS No: F56-30 ATA 22 – AUTO FLIGHT	Supersedes HB-2004-048

Issue date: 18 March 2005

Subject: PITCH ACTUATOR – REPLACEMENT

Superseded/Revised ADs: HB-2004-048

1. APPLICABILITY:

PILATUS AIRCRAFT LTD.

All Model PC-12 and PC-12/45 airplanes, Manufacturer Serial Numbers (MSN) 101 thru MSN 620 inclusive.

2. REASON:

This Airworthiness Directive (AD) is prompted by an occurrence which took place on a PC-12 airplane, where an abrupt nose down pitch occurred following disconnection of the autopilot during an ILS approach. Investigations have shown that when the flaps are at 40°, if the autopilot is disconnected, there is a possibility that an out of trim condition could occur and result in reduced controllability of the airplane.

FOCA has issued AD HB-2004-048 that currently requires as a temporary measure the amendment of Section 2 of the Pilot's Operating Handbook (POH) to include an instruction to disengage the autopilot before a flap selection to 40° is made.

The present AD HB-2005-128 supersedes the existing AD HB-2004-048 and requires replacement of the pitch actuator with a new pitch actuator. The new pitch actuator introduces a new pitch servo with modified sense output signals and removes the flap in motion signal to the A/P.

3. COMPLIANCE / ACTION:

Required as indicated below, unless already accomplished:

3.1. OPERATIONAL LIMITATIONS – POH REVISION

3.1.1. Prior to further flight after 07 February 2004 (the effective date of AD HB-2004-048); insert in the PILATUS PC-12 Pilot's Operating Handbook (POH), the Temporary Revision No. 11 (Report No: 02211) or No. 40 (Report No: 01973-001) into Section 2 of the applicable POH.


3.2. PITCH ACTUATOR REPLACEMENT / WIRING & CB-MODIFICATION

3.2.1. Not later than 31 December 2006; replace pitch actuator Part Number (P/N) 985.92.03.161 with a new pitch actuator with P/N 985.92.03.164. Make the wiring changes for airplanes MSN 321 and MSN 401 thru MSN 620 inclusive and secure the circuit breaker (CB906) with the safety clip (110.88.07.065) on airplanes MSN 101 thru MSN 320 and MSN 322 thru MSN 400 inclusive.

3.2.2. Pitch actuator replacement and modifications in accordance with paragraph 3.2.1 constitutes terminating action for the requirements of paragraph 3.1.1. of this AD. The POH Temporary Revision No. 11 (Report No: 02211) or No. 40 (Report No: 01973-001) may be removed.

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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 Pilot's Operating Handbook (POH) Temporary Revision No. 11 (Report No: 02211) or POH Temporary Revision No. 40 (Report No: 01973-001), both dated 03 February 2004.
 - PILATUS PC-12 Service Bulletin No. 22-004, dated 21 December 2004.
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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)

FAX No.: +41 31 322 5918

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