

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-2005-288
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	PILATUS – PC-12 FOCA TC/TCDS No: F56-30 ATA 32 – LANDING GEAR	

Issue date: 29 June 2005

Subject: MAIN LANDING GEAR SPECIAL BOLT ASSEMBLY – Inspection / Replacement

Superseded / Revised ADs: Not applicable

1. APPLICABILITY:

PILATUS AIRCRAFT LTD.

All Model PC-12 and PC-12/45 airplanes, Manufacturer Serial Number (MSN) 101 thru MSN 620 inclusive equipped with Main Landing Gear (MLG) assemblies and special bolts as follows:

- 1.1. MLG assemblies Part Number (P/N) 532.10.12.049 and P/N 532.10.12.050 delivered before 31. December 2004.
- 1.2. Special bolts P/N 532.10.12.077 delivered before 31 December 2004.

Note:

The manufacturing date is not marked on the parts. The P/N and the production order are marked with ink stamp, but probably not readable after a certain time being installed. When the permanently marked Serial Number (S/N) was introduced for the bolt P/N 532.10.12.077, this change was not considered by the suppliers immediately. Therefore the S/N cannot be used as criteria. The affected bolts are all without primer and paint. Delivery dates of the affected parts can be tracked at Pilatus. A shipment of concerned parts after 31. December 2004 can be excluded.

2. REASON:


It has been found that some of the above mentioned special bolts have the potential to fail during operation. These bolts attach the hydraulic actuators to the left and right MLG assemblies. The separation of a bolt head has only occurred in a MLG assembly of a specified manufacturer. Investigations revealed that the problem is caused due corrosion of the bolt P/N 532.10.12.077. The corrosion occurred because the bolt head was not primed and painted.

Components in this condition can decrease the specified fatigue life and could lead to MLG collapse during operation with consequent loss of airplane control.

In order to correct the situation described, this Airworthiness Directive (AD) requires the identification of the bolts P/N 532.10.12.077 to determine if the bolt head is primed and painted and the replacement of this part with a new special bolt with primer and paint, if necessary.

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3. COMPLIANCE / ACTION:

Required as indicated below, unless already accomplished:

Within the next 100 hours time-in-service (TIS) or three calendar months, whichever occurs first, after the effective date of this AD:

3.1. INSPECTION / REPLACEMENT

- 3.1.1. Perform an inspection of the left and right MLG assemblies to determine if there are bolts with P/N 532.10.12.077 installed that do not have white primed and painted heads.
- 3.1.2. If during the inspection required by paragraph 3.1.1. of this AD any bolts with P/N 532.10.12.077 that do not have white primed and painted heads are found, prior to further flight, replace the specified bolts with new bolts with new P/N 532.10.12.077F in all MLG assemblies.

4. PARTS INSTALLATION:

As of the effective date of this AD, no person shall install:

- 4.1. Any special bolts P/N 532.10.12.077 that do not have white primed and painted heads on any MLG assemblies P/N 532.10.12.049 and P/N 532.10.12.050 on any Pilatus PC-12 Series airplane.

5. 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. 32-018, dated 02 May 2005.

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

PILATUS AIRCRAFT LTD. TEL No.: +41 41 619 6208
 CUSTOMER SUPPORT MANAGER FAX No.: +41 41 619 7311
 CH-6371 STANS, Switzerland Email: SupportPC12@pilatus-aircraft.com

6. FOR FURTHER INFORMATION CONTACT:

FEDERAL OFFICE FOR CIVIL AVIATION (FOCA)
 Design and Production (STEH)
 Maulbeerstrasse 9 FAX No.: +41 31 325 9324 (or)
 CH-3003 Berne, Switzerland FAX No.: +41 31 322 5918

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