

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 2001-603
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	PILATUS - PC-12 FOCA TC/TCDS No.: F 56-30 ATA 32	

TITLE: **PILATUS AIRCRAFT LTD. – PC-12
MAIN LANDING GEAR – SPECIAL BOLTS - Replacement**

APPLICABILITY: PILATUS AIRCRAFT LTD.
PC-12 and PC-12/45 airplanes MSN 349, MSN 352, MSN 357, MSN 359, MSN 362 thru MSN 365, MSN 367, MSN 369, MSN 371, MSN 375, MSN 377, MSN 380, MSN 384, MSN 385, MSN 388, MSN 390, MSN 391, MSN 393, MSN 401 and MSN 409.

EFFECTIVE DATE: **05 November 2001**

REASON:

It has been found on some PC-12/45 airplanes that special bolts connecting the hydraulic actuators to the (left and right) main landing gear (MLG) assemblies have the potential to fail during operation. This could result in collapse of the MLG assembly.

Investigations revealed that the problem is caused by an improper cadmium plating process applied to the high strength steel part, which can cause hydrogen embrittlement. Affected are only bolts which have serial numbers that start with the letters AT and have numbers 299, or lower.

In order to correct the condition described this Airworthiness Directive (AD) requires replacement of the affected special bolts AT299, or lower with special bolts AT300, or higher.

COMPLIANCE: (Required as indicated, unless already accomplished)

(a) Required at the next 100 hour inspection but not later than 30 days after the effective date of this AD;


- (1) Inspect special bolts connecting the hydraulic actuators to the left and right main landing gear (MLG) assemblies to identify the serial numbers of the special bolts. If all special bolts are identified as serial number (S/N) AT300 or higher or have no serial number (other manufacturer); no further action is required.
- (2) If during the inspection required by paragraph (a)(1); special bolts are identified as S/N AT299 or below; prior to further flight replace the applicable bolts with new bolts which have S/N AT300 or higher, as specified in and in accordance with the Accomplishment Instructions of PILATUS PC-12 Service Bulletin No. 32-012, dated October 18, 2001 or later revisions approved by the Swiss Federal Office for Civil Aviation (FOCA).

NOTE:

Affected are only main landing gear assemblies that have serial numbers, which start with the letters AM.

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Rechtsmittelbelehrung Voies de droit Rimedi giuridici Right to appeal	siehe TM Nr. voir CT no. vedi CT no. see CT no.	02.020-80	Seite Page Pagina Page	von de di of	2
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REF. PUBLICATIONS:

- PILATUS PC-12 Service Bulletin No. 32-012, dated October 18, 2001 or later revisions approved by the Swiss Federal Office for Civil Aviation (FOCA).

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

PILATUS AIRCRAFT LTD
CUSTOMER LIAISON MANAGER
CH-6371 STANS , Switzerland

TEL No.: +41 41 619 6319
FAX No.: +41 41 619 6224
Email: pilga@pilatus-aircraft.com

FOR FURTHER INFORMATION CONTACT:

FEDERAL OFFICE FOR CIVIL AVIATION (FOCA)
Type Certification (MZ)
Maulbeerstrasse 9
CH-3003 Berne, Switzerland

FAX No.: +41 31 325 8051 (or)
FAX No.: +41 31 322 5918

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