



Lufttüchtigkeitsanweisung (LTA) Consigne de Navigabilité (CN) Direttive sulla Navigabilità (DN) Airworthiness Directive (AD)		FOCA AD HB-2011-001
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	16 May 2011	Pilatus – PC-21 FOCA TC/TCDS No: F 56-35

Issue Date:	02 May 2011
ATA Chapter:	ATA 32 – Landing Gear
Subject:	Landing Gear – Main Landing Gear (MLG) Gas Strut Attachment Bolt Washer – Replacement
Supersedure / Revised AD(s):	Not applicable
Type Certificate Holder's Name:	Pilatus Aircraft Ltd.
Manufacturer(s):	Pilatus Aircraft Ltd.
Applicability:	Model PC-21 aircraft, Manufacturer Serial Numbers (MSN) 101 through MSN 127 inclusive.
Reason:	<p>This Airworthiness Directive (AD) is prompted due to the discovery of incorrectly installed washers between the gas strut and its attachments on the MLG.</p> <p>The un-rounded edge of such an incorrectly installed washer, if left uncorrected, can be pushed onto the shoulder of the attachment bolt. As a consequence fatigue/corrosion failure of the bolt can occur.</p> <p>In order to correct and control the situation, this AD requires a one-time check of the installation of the washer and it's replacement with a new improved designed special washer. Furthermore an inspection of the gas strut attachment bolt is required if the gas strut has been removed and installed or replaced, or if the washer was found to be installed the wrong way round. In case of any crack findings, the bolts must be replaced.</p>
Required action(s) and Compliance Time(s):	<p>Required as indicated below, unless already accomplished:</p> <p>(1) Within the next 7 months after the effective date of this AD, check if the left and/or right gas strut has been removed and installed or replaced during the life of the aircraft. Check if the upper and lower washer is installed correctly and replace the special washer P/N 532.10.21.095 with an improved special washer P/N 532.10.21.203 as required by paragraph (§) 3.B. of PILATUS PC-21 Service Bulletin No. 32-006.</p>

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- (2) If during the inspection required by § (1) of this AD, it has been found that the left and/or right gas strut has been removed and installed or replaced during the life of the aircraft and/or the upper and lower washer was installed incorrectly, prior to further flight, perform a Non Destructive Inspection (NDI) of the upper and lower bolts of the related gas strut for signs of cracks as required by § 3.C. of PILATUS PC-21 Service Bulletin No. 32-006. No cracks are permitted.
- (3) If during the inspection required by § (2) of this AD, any crack is found, prior to further flight, replace any cracked bolts with a new upper bolt P/N 532.10.21.073 and/or a new lower bolt P/N 532.10.21.086 as required by § 3.C. of PILATUS PC-21 Service Bulletin No. 32-006.

Ref. Publication(s): PILATUS PC-21 Service Bulletin No. 32-006, initial issue.

The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.

For further information contact: The applicable manufacturer's documentation may be obtained directly from:

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