

<b>Bundesamt für Zivilluftfahrt (BAZL)</b> <b>Office fédéral de l'aviation civile (OFAC)</b> <b>Ufficio federale dell'aviazione civile (UFAC)</b> <b>Federal Office of Civil Aviation (FOCA)</b> CH-3003 Bern Switzerland	<b>Lufttüchtigkeitsanweisung (LTA)</b> <b>Consigne de Navigabilité (CN)</b> <b>Prescrizione di Aeronavigabilità (PA)</b> <b>Airworthiness Directive (AD)</b>	FOCA AD  <b>HB-2006-224</b>
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	<b>PILATUS – PC-9</b>  FOCA TC/TCDS No: F56-22 ATA 29 – HYDRAULIC POWER	

Issue date: 20 April 2006

**Subject: LANDING GEAR EMERGENCY OPERATION CABLE – PROOF TEST / INSPECTION**

**Superseded/Revised ADs:** Not applicable

**1. APPLICABILITY:**

**PILATUS AIRCRAFT LTD.**

Model PC-9, PC-9/A, PC-9/B and PC-9/F airplanes Manufacturers Serial Numbers (MSN) 101 thru MSN 247 inclusive and MSN 501 thru MSN 567 inclusive that do not have the PILATUS PC-9 Service Bulletin No. 29-010 embodied.

**2. REASON:**

During ground training of the emergency landing gear system a corroded cable broke. The affected cable operates the emergency package for emergency operation of the landing gear. This is a dormant failure and will not be found until selection of the emergency landing gear or scheduled function test of the landing-gear emergency-system operation is accomplished.

This could be caused by a bend or damage to the outer cable conduit or corrosion of the inner core of the cable. Small radii bends and damage to the cable conduit can cause unwanted loads on the cable.

The condition described can result in the inability to extend the landing gear in case the use of the emergency operation of the landing gear is needed.

To prevent this unsafe condition, this Airworthiness Directive (AD) requires to perform a proof test of the bowden cable, check of the cable routing and replacement of the bowden cable and conduit as required.

**3. COMPLIANCE / ACTION:**

Required as indicated below, unless already accomplished:

Note:


The implementation of the highly recommended PILATUS PC-9 Service Bulletin No. 29-010 (replacement of the bowden cable) terminates the actions in paragraph 3.1.1 to 3.1.9. of this AD.

**At the next scheduled servicing, but not later than 3 months after the effective date of this AD:**

**3.1. PROOF TEST / INSPECTION / CORRECTIVE ACTIONS / REPLACEMENT**

- 3.1.1. Perform a proof test of the bowden cable in accordance with paragraph 3. B. of PILATUS PC-9 Service Bulletin No. 29-009. If the inner cable moves in the clamp bolt assembly before 57 kg [according paragraph 3. B. (8) of PILATUS PC-9 Service Bulletin No. 29-009], perform the corrective actions in paragraph 3.1.2., 3.1.3. and 3.1.4. and thereafter 3.1.1. again, then 3.1.7. and 3.1.8 of this AD as required. If the inner cable moves in the clamp bolt assembly after 57 kg go directly to the actions described in paragraph 3.1.7. and 3.1.8. of this AD. ./.

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FOCA AD <b>HB-2006-224</b>	<b>Lufttüchtigkeitsanweisung (LTA) Consigne de Navigabilité (CN) Prescrizione di Aeronavigabilità (PA) Airworthiness Directive (AD)</b>	 Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra
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- 3.1.2. If during the inspection in accordance with paragraph 3.1.1. of this AD the inner cable moves in the clamp bolt assembly before 57 kg, perform an inspection of the bowden cable for signs of sharp, tight or unwanted bends in the cable, for compressions in the conduit and for damage to the outer cable conduit in accordance with paragraph 3. C. of PILATUS PC-9 Service Bulletin No. 29-009. No unwanted bends in the bowden cable, compressions in the conduit or damage to the outer cable conduit is permitted. If the conduit is compressed or damaged, replace the bowden cable and conduit in accordance with paragraph 3.1.5. of this AD.
- 3.1.3. Perform a corrosion prevention of the bowden cable in accordance with paragraph 3. D. of PILATUS PC-9 Service Bulletin No. 29-009.
- 3.1.4. Perform an adjustment of the bowden cable in accordance with paragraph 3. E. of PILATUS PC-9 Service Bulletin No. 29-009.
- 3.1.5. If during the inspection required by paragraph 3.1.2. of this AD any signs of compression or damage in the conduit is found, prior to further flight, replace the bowden cable and the conduit in accordance with paragraph 3. F. of PILATUS PC-9 Service Bulletin No. 29-009.
- 3.1.6. If the bowden cable and the conduit is replaced in accordance with paragraph 3.1.5 of this AD, perform an adjustment of the bowden cable in accordance with paragraph 3. G. of PILATUS PC-9 Service Bulletin No. 29-009. After the adjustment of the bowden cable do again a proof test according paragraph 3.1.1. and go then to paragraph 3.1.7. and 3.1.8. of this AD.
- 3.1.7. Perform a test of the emergency-landing-gear control in accordance with paragraph 3. H. of PILATUS PC-9 Service Bulletin No. 29-009.
- 3.1.8. Install the red indicating thread Part Number (P/N) 918.71.03.121 in accordance with paragraph 3. I. of PILATUS PC-9 Service Bulletin No. 29-009.
- 3.1.9. After the accomplishment of all necessary paragraphs 3.1.1 to 3.1.8. of this AD, repeat thereafter a proof test of the bowden cable every 12 months in accordance with PILATUS PC-9 Maintenance Manual chapter 29-20-00, page block 501.

#### 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):

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##### Manufacturer's Documentation

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- PILATUS PC-9 Service Bulletin No. 29-009, dated 06 November 2003.
  - PILATUS PC-9 Service Bulletin No. 29-010, dated 10 November 2004.
  - PILATUS PC-9 Maintenance Manual chapter 05-10-20, dated 30 September 2004.
  - PILATUS PC-9 Maintenance Manual chapter 29-20-00, page block 501, dated 30 September 2004.
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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 6226  
FAX No.: +41 41 619 6170  
Email: [snolan@pilatus-aircraft.com](mailto:snolan@pilatus-aircraft.com)

#### 5. FOR FURTHER INFORMATION CONTACT:

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

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