

<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 for Civil Aviation (FOCA)</b> Maulbeerstrasse 9 CH-3003 Berne 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 2003-251</b>
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	<b>PILATUS - PC-12</b>  FOCA TC/TCDS No.: F 56-30 ATA 28	Supersedes HB 2001-500

**TITLE:                   PILATUS AIRCRAFT LTD. – PC-12  
ENGINE DRIVEN FUEL PUMP – Inspection/Replacement**

**APPLICABILITY:**

**PILATUS AIRCRAFT LTD.**

Model PC-12 and PC-12/45 airplanes,  
All PC-12 and PC-12/45 aircraft from MSN 101 thru MSN 406 and MSN 408 thru MSN 419 with Engine Driven Pump (EDP) Lear Romec Part Number RG9570R1, PILATUS Part Number 968.84.51.106 installed.

**REASON:**

This Airworthiness Directive (AD) supersedes existing AD HB 2001-500, that currently requires torque check inspections of the Engine Driven Fuel Pump (EDP) relief-valve-cover screws, inspection of the EDP for signs of fuel leakage or extruded gasket material and replacement of the EDP if necessary. FOCA AD HB 2001-500 was prompted by an instance of fuel leakage on the EDP. It is possible that the gasket of the EDP can extrude between the relief valve housing and the EDP housing, due to compression set of gasket and diaphragm after operational thermal cycling, relieving the torque on the relief valve attachment screws. This could lead to fuel leakage and result in a fire in the engine compartment. The present AD HB 2003-251 retains the previous inspection requirement and provides as a terminating action for the repetitive inspections, replacement of the Engine Driven Fuel Pump.

**COMPLIANCE:**


Required as indicated below, unless already accomplished:

**(a) INSPECTION / REPETITIVE INSPECTIONS**

**Within 20 hours time-in-service (TIS) or 30 days after 24 August 2001 (the effective date of FOCA AD HB 2001-500), accomplish the following :**

- (1) Inspect the joints between the EDP housing, relief valve housing and the relief-valve cover for signs of fuel leakage and/or extruded gasket material.  
Repeat this inspection thereafter at each 100 hours inspection in accordance with latest maintenance manual instructions (AMM 05-20-10).
- (2) If during the inspection required by paragraph (a)(1) of this AD signs of fuel leakage and/or extruded gasket material is found; prior to further flight, replace the applicable EDP with a Lear Romec PN: RG9570R1/M, PILATUS PN: 968.84.51.108 Engine Driven Fuel Pump.
- (3) If no signs of fuel leakage or extruded gasket material is found; perform torque check inspection of the relief-valve cover screws. If the torque does not meet the specifications, tighten screws to the required torque as specified in and in accordance with the Accomplishment Instructions of PILATUS PC-12 Service Bulletin No. No. 28-009, dated 10 August 2001.

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FOCA AD <b>HB 2003-251</b>	<b>Lufttüchtigkeitsanweisung (LTA)</b> <b>Consigne de Navigabilité (CN)</b> <b>Prescrizione di Aeronavigabilità (PA)</b> <b>Airworthiness Directive (AD)</b>		<b>BAZL Schweiz</b> <b>OFAC Suisse</b> <b>UFAC Svizzera</b> <b>FOCA Switzerland</b>
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**(b) REPLACEMENT**

**Within the next 6 months after 16 June 2003 (the effective date of this AD):**

- (1) Remove Engine Driven Fuel Pump (EDP) Lear Romec PN: RG9570R1, PILATUS PN: 968.84.51.106 and install modified EDP Lear Romec PN: RG9570R1/M, PILATUS PN: 968.84.51.108 (post Crane Lear Romec SB RG9570-73-002), as specified in and in accordance with the Accomplishment Instructions of PILATUS PC-12 Service Bulletin No. 28-010, dated 16 September 2002.

**NOTE:**

Lear Romec Service Bulletin (SB) RG9570-73-002 changes the valve housing assembly of the EDP. The new design of valve housing and seals provides enhanced resistance to fuel leakage. Post Lear Romec SB RG9570-73-002 the EDP becomes Lear Romec P/N: 9570R1/M, PILATUS P/N: 968.84.51.108.

- (2) Replacement of the EDP accomplished in accordance with paragraph (a) (2) or (b) (1) constitutes terminating action for the repetitive requirements of paragraph (a) of this AD.

**(c) SPARE PARTS:**

As of the effective date of this AD, no person shall install any Engine Driven Fuel Pump (EDP) with Lear Romec PN: RG9570R1, PILATUS PN: 968.84.51.106, on any Model PILATUS PC-12 Series airplane.

**(d) 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):

- PILATUS PC-12 Service Bulletin No. 28-009, dated 10 August 2001.
- PILATUS PC-12 Service Bulletin No. 28-010, dated 16 September 2002.
- Crane Lear Romec Service Bulletin RG9570-73-002.

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

**PILATUS AIRCRAFT LTD**

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CH-6371 STANS, Switzerland

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**FOR FURTHER INFORMATION CONTACT:**

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