

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-2004-001
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	PILATUS - PC-7 Mk.II FOCA TC/TCDS No.: F 56-25 ATA 28 - FUEL	Supersedes HB-2001-532

Issue date: 20 January 2004

TITLE: PILATUS AIRCRAFT LTD. – PC-7 Mk.II
ENGINE DRIVEN FUEL PUMP – Inspection/Replacement

APPLICABILITY:

PILATUS AIRCRAFT LTD.

All Model PC-7 Mk.II airplanes, Manufacturer Serial Numbers (MSN) 010, MSN 101 thru MSN 160, MSN 601 thru MSN 604 and MSN 608 thru MSN 616 with Engine Driven Pump (EDP) LEAR ROMEC Vendor Part Number (VPN) RG9570R1, PILATUS Part Number 968.84.51.106 installed.

REASON:

This Airworthiness Directive (AD) supersedes existing AD HB-2001-532, 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-2001-532 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-2004-001 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 28 September 2001 (the effective date of FOCA AD HB-2001-532), 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 150 and 300 Hours/Annual inspection in accordance with latest maintenance manual instructions (AMM 05-22-10).
- (2) If during the inspection required by paragraph (a)(1) of this AD signs of fuel leakage and/or extruded gasket material are found; prior to further flight, replace the applicable EDP with a LEAR ROMEC VPN RG9570R1/M, PILATUS PN: 968.84.51.108 Engine Driven Fuel Pump.
- (3) If no signs of fuel leakage or extruded gasket material are 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-7 Mk.II Service Bulletin No. No. 28-004, dated 10 August 2001.

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(b) REPLACEMENT

Within the next 6 months after 27 January 2004 (the effective date of this AD):

- (1) Remove Engine Driven Fuel Pump (EDP) LEAR ROMEC Vendor Part Number (VPN) RG9570R1, PILATUS PN: 968.84.51.106 and install modified EDP CRANE LEAR ROMEC VPN 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-7Mk.II Service Bulletin No. 28-005 Revision 1, dated 01 October 2002.

NOTE:

CRANE 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 CRANE LEAR ROMEC SB RG9570-73-002 the EDP becomes LEAR ROMEC VPN: 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 with LEAR ROMEC VPN: RG9570R1, PILATUS PN: 968.84.51.106, on any Model PILATUS PC-7 Mk.II 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-7 Mk.II Service Bulletin No. 28-004, dated 10 August 2001.
- PILATUS PC-7 Mk.II Service Bulletin No. 28-005 Revision 1, dated 01 October 2002.
- PILATUS PC-7 Mk.II Aircraft Maintenance Manual (AMM) 05-22-10 Master Maintenance Plan dated 28 February 2003.
- CRANE LEAR ROMEC Service Bulletin RG9570-73-002.

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 6509 (Government)
FAX No.: +41 41 619 6170
Email: rpaterson@pilatus-aircraft.com

FOR FURTHER INFORMATION CONTACT:

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

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