

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 2003-392
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	PILATUS - PC-7 FOCA TC/TCDS No.: F 56-20 ATA 28	Supersedes HB 2001-505

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

APPLICABILITY:

PILATUS AIRCRAFT LTD.

Model PC-7 airplanes,
Manufacturers Serial Numbers (MSN) from MSN 101 thru MSN 618 with Engine Driven Pump (EDP) LEAR ROMEC Vendor Part Number (VPN) RG9570M1, PILATUS Part Number (P/N) 968.84.51.105 or LEAR ROMEC VPN RG9570M, PILATUS P/N 968.84.51.103 installed.

REASON:

This Airworthiness Directive (AD) supersedes existing AD HB 2001-505, 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 2001-505 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 2003-392 retains the previous inspection requirement, extends part number effectivity 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

Compliance	EDP Part Number(s)
Within 20 hours time-in-service (TIS) or 30 days after 05 September 2001 (the effective date of FOCA AD HB 2001-505)	EDP with LEAR ROMEC VPN RG9570M1, PILATUS P/N 968.84.51.105.
Within 30 days after 15 September 2003 (the effective date of this AD)	EDP with LEAR ROMEC VPN RG9570M, PILATUS P/N 968.84.51.103.

- (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 subsequent Intermediate Inspection in accordance with latest maintenance manual instructions (AMM 05-30-01).
- (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 RG9570M1/M, PILATUS P/N: 968.84.51.107 Engine Driven Fuel Pump.

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- (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 Service Bulletin No. 28-006, dated 10 August 2001 or PILATUS PC-7 Service Bulletin No. 28-008 Revision 1, dated 24 September 2002.

(b) REPLACEMENT

Within the next 6 months after 15 September 2003 (the effective date of this AD):

- (1) Remove Engine Driven Fuel Pump (EDP) LEAR ROMEC VPN RG9570M1, PILATUS P/N: 968.84.51.105 or LEAR ROMEC VPN RG9570M, PILATUS P/N: 968.84.51.103 and install modified EDP LEAR ROMEC VPN: RG9570M1/M, PILATUS P/N: 968.84.51.107 (post CRANE LEAR ROMEC Service Bulletin RG9570-73-002 or RG9570-73-006), as specified in and in accordance with the Accomplishment Instructions of PILATUS PC-7 Service Bulletin No. 28-007 Revision 1, dated 01 October 2002.

NOTE:

CRANE LEAR ROMEC Service Bulletin(s) (SB) RG9570-73-002 and RG9570-73-006 change 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 or SB RG9570-73-006 the EDP becomes LEAR ROMEC VPN: RG9570M1/M, PILATUS P/N: 968.84.51.107.

- (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 VPN: RG9570M, PILATUS PN: 968.84.51.103 or LEAR ROMEC VPN RG9570M1, PILATUS P/N: 968.84.51.105, on any Model PILATUS PC-7 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 Service Bulletin No. 28-006, dated 10 August 2001.
- PILATUS PC-7 Service Bulletin No. 28-007 Revision 1, dated 01 October 2002.
- PILATUS PC-7 Service Bulletin No. 28-008 Revision 1, dated 24 September 2002.
- CRANE LEAR ROMEC Service Bulletin RG9570-73-002.
- CRANE LEAR ROMEC Service Bulletin RG9570-73-006.

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

FAX No.: +41 31 325 9324 (or)
FAX No.: +41 31 322 5918

* corrected 05 December 2003

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