

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-2004-101
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	PILATUS - PC-12 FOCA TC/TCDS No.: F56-30 ATA 24 ELECTRICAL POWER	

Issue date: 30 March 2004

**SUBJECT: PILATUS AIRCRAFT LTD. – PC-12
 GENERATOR CONTROL UNIT - REPLACEMENT**

1. APPLICABILITY:

PILATUS AIRCRAFT LTD.

All PC-12 and PC-12/45 airplanes, Manufacturer Serial Numbers (MSN) 101 thru MSN 507 with the second (2nd) battery factory option and which **do not** have the Generator Control Unit P/N 988.21.15.103 installed.

2. REASON:

This Airworthiness Directive (AD) is prompted by incidents on Model PC-12 Series airplanes with 2nd battery installation where the 2nd battery was discharged due to loss of the 2nd generator output, without any failure indication on the CAWS or overhead panel.

Investigations revealed that the Generator Control Unit (GCU) lets the 2nd battery energize the number 2 generator relay until the power output from the battery is not sufficient to hold the relay closed.

This condition, if not corrected, could result in the hidden failure of the second generator while the 2nd battery is discharging.

In order to prevent the condition described this AD requires replacement of certain Generator Control Units with modified Generator Control Units.

3. COMPLIANCE:

Required as indicated below, unless already accomplished:

At the next 100 Hour or Annual Inspection, but not later than 90 days after the effective date of this Airworthiness Directive:

Remove Generator Control Unit P/N 988.21.15.102 and install Generator Control Unit P/N 988.21.15.103 in accordance with the Accomplishment Instructions of PILATUS PC-12 Service Bulletin No. 24-022, dated 13 June 2003.

The following Service Bulletins must be accomplished before or at the same time as PILATUS PC-12 Service Bulletin No. 24-022, as applicable:

PILATUS PC-12 Service Bulletin 24-010 Revision 1, dated 06 October 2003.

- When an Electrosystems generator P/N 978.87.24.121 is installed.


PILATUS PC-12 Service Bulletin 24-019 Revision 1, dated 06 June 2003.

- When an Electrodelta voltage regulator P/N 988.21.15.101 is installed.

Note: Service Bulletin 24-019 Revision 1 changes the P/N of the GCU to 988.21.15.103.

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4. SPARE PARTS:

As of the effective date of this AD, no person shall install any Generator Control Unit (GCU) held as spare with P/N 988.21.15.102, on any Model Pilatus PC-12 and PC-12/45 airplane with the second (2nd) battery factory option installed.

5. 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. 24-022, dated 13 June 2003.

And if required:

- PILATUS PC-12 Service Bulletin 24-010 Revision 1, dated 06 October 2003.
- PILATUS PC-12 Service Bulletin 24-019 Revision 1, dated 06 June 2003.

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

PILATUS AIRCRAFT LTD	TEL No.: +41 41 619 6208
CH-6371 STANS, Switzerland	FAX No.: +41 41 619 7311
CUSTOMER SUPPORT MANAGER	Email: SupportPC12@pilatus-aircraft.com

6. FOR FURTHER INFORMATION CONTACT:

FEDERAL OFFICE FOR CIVIL AVIATION (FOCA)	
Type Certification (MZ)	
Maulbeerstrasse 9	FAX No.: +41 31 325 9324 (or)
CH-3003 Berne, Switzerland	FAX No.: +41 31 322 5918

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