

SERVICE LETTER

SUBJECT: LITEF SERVICE BULLETIN NO: 141450-0000-840-004

All Operators:

Date: 30 April 1997

The attention of all PC-12 operators is drawn to the subject LITEF Service Bulletin which deals with Attitude and Heading Reference System (AHRS) LCR-92 (P/N: 124210-XXXX) (PILATUS P/N: 985.99.11.822) (Ref. IPC 34-20-00 Fig. 01) and is reproduced as Annex A to this Service Letter.

The LITEF Service Bulletin (**141450-0000-840-004**) supersedes the LITEF Service Bulletin (**141450-0000-840-003**) which was issued as an Appendix to the PILATUS PC-12 Service Bulletin No: 34-003 (dated Oct 17/96).

Any specific queries concerning this subject should be addressed directly to LITEF GmbH at the address given in the Service Bulletin.

Should any difficulty be encountered, enquiries can then be made at your Authorized PILATUS PC-12 Service Center,

or at the following:

PILATUS AIRCRAFT LTD.
CUSTOMER LIAISON MANAGER,
CH-6371 STANS,
SWITZERLAND.

Tel: + 41 41 619 6233
Fax: + 41 41 610 3351

≡PILATUS≡
PC12
SERVICE LETTER

INTENTIONALLY BLANK

≡PILATUS≡
PC12
SERVICE LETTER

Annex A to Pilatus Service Letter PC-12 No: 019

LITEF Service Bulletin No: 141450-0000-840-004

(7 pages)

LITEF GmbH

**ATTITUDE and HEADING REFERENCE SYSTEM
(AHRS)**

LCR-92 PART NO. 124210-XXXX

SERVICE BULLETIN

Issued March 07, 1997

© 03.1997 LITEF GmbH, Freiburg

This document contains propriety information / know-how which is known only to a limited number of persons. Transfer and copying of this document, use or disclosure of its content prohibited unless expressly authorized by LITEF. Contravention subject to damages. All rights reserved regarding patents and registered designs.

SERVICE BULLETIN No. 141450-0000-840-004

≡PILATUS≡
PC12
SERVICE LETTER

INTENTIONALLY BLANK

LIST OF EFFECTIVE PAGES

SECTION	PAGE	DATE
Title Page		March 07, 1997
Record of Revisions		March 07, 1997
List of Effective Pages	1 of 1	March 07, 1997
Table of Contents	1 of 1	March 07, 1997
Planning Information	1 of 3 / 2 of 3	March 07, 1997
Accomplishment Instructions	2 of 3 / 3 of 3	March 07, 1997
Material Information	3 of 3	March 07, 1997

RECORD OF REVISIONS

REV. No.	ISSUE DATE	DATE INSERTED	BY	REV. No	ISSUE DATE	DATE INSERTED	BY

TABLE OF CONTENTS

1	PLANNING INFORMATION	1
	A EFFECTIVITY	1
	B REASON	1
	C DESCRIPTION	1
	D COMPLIANCE	1
	E APPROVAL	1
	F MANPOWER	2
	G MATERIALS	2
	H SPECIAL TOOLS	2
	I WEIGHT and BALANCE	2
	J REFERENCES	2
	K OTHER PUBLICATIONS AFFECTED	2
2	ACCOMPLISHMENT INSTRUCTIONS	2
	A MODIFICATION of AHRU	2
3	MATERIAL INFORMATION	3

HARTZELL PROPELLER INC.
SERVICE BULLETIN

Propellers

Propeller - Introduction of a Cylinder Clamp

1. Planning Information

A. Effectivity

- (1) HC-E4A-3(A,I) propellers with serial number HJ797 and lower installed on Raytheon Beechcraft 1900D Airliners.
- (2) HC-E4A-3D propellers with serial number HJ797 and lower installed on Pilatus PC-XII Aircraft.

B. Concurrent Requirements

None.

C. Reason

- (1) There have been two incidents on 1900D aircraft of severe oil leakage from the threaded area between the propeller cylinder and the hub.
- (2) The expansion of the cylinder due to hydraulic pressure during reverse and the loads imposed on the reverse pitch stop during reverse, cause the cylinder to expand and diminish thread engagement with the hub. This can allow the cylinder to be misaligned with the hub and result in loss of engine oil.
- (3) This Service Bulletin provides a one-time, permanent repair for the current hub and cylinder design.
- (4) Compliance with this bulletin will improve propeller reliability by preventing misalignment of the cylinder and hub during reverse operation.
- (5) No regulatory action is anticipated.

D. Description

This Service Bulletin provides instructions for installing the B-6472 Cylinder Clamp at the base of the cylinder to prevent expansion and ensure optimum thread engagement between the hub and cylinder.

E. Compliance

- (1) Raytheon Beechcraft 1900D Airliner

Compliance is required within 90 days or 500 hours of operation, whichever occurs first, from the date of receipt of this Service Bulletin.

- (2) Pilatus PC-XII Aircraft

Compliance is required at next propeller overhaul. (Compliance prior to overhaul is optional, but may be desirable in order to take advantage of warranty parts program, see Service Bulletin Appendix for details.)

1 PLANNING INFORMATION

A Effectivity

This service bulletin (SB) is applicable to LCR-92 Attitude and Heading Reference Units (AHRU) with the following part numbers (P/N) ;

P/N 124210-1000 and P/N 124210-2000

Equipment reference :

P/N before modification	P/N after modification
124210-1000	124210-1011
124210-2000	124210-2011

B Reason

Refer to LBA AD 96-212/2 LITEF dated August 29, 1996 and FAA AD Docket No. 96-SW-12-AD, Amendment 39-9789; AD96-21-13 effective date November 12, 1996. By replacing the AHRU with a modified AHRU with the P/N 124210-1011 and 124210-2011 respectively, a RF susceptibility of at least 100 V/m (category W) will be reached. Therefore the operational limitations are no longer applicable after compliance with this service bulletin.

C Description

The modification will be implemented through a software update and changes to the AHRU to enable the environmental high intensity radio frequency (HIRF) category to be realized, i.e the work required in order to comply with the conditions of Specification DO-160C, Section 20 Cat."W".

D Compliance

Compliance with this service bulletin shall be accomplished, as soon as possible. Work to be accomplished at LITEF GmbH.

E Approval

The changes covered herein have been approved by the German Airworthiness Authorities (LBA), and a new TSO approval C4c, C5d and C6e has been granted by the Federal Aviation Administration (FAA) Brussels.

141450-0000-840-004

March 07, 1997

F Manpower

The modification to the AHRU will be performed by LITEF personnel, but in case the modification described in SB 141450-0000-840-003 has been performed a workload of approx. 15 minutes (by qualified maintenance personnel) will be necessary in order to partially reverse SB 141450-0000-840-003.

G Materials : cost and availability

The AHRU will be returned to LITEF GmbH, therefore not applicable.

H Special tools

Not applicable

I Weight and Balance

Not applicable

J References

None

K Other publication affected

LITEF DOCUMENT NO. 141450-0000-840, INSTALLATION / MAINTENANCE INSTRUCTION (IMI).

2 ACCOMPLISHMENT INSTRUCTIONS

A Modification of AHRU

NOTE

Refer to IMI : P/N 141450-0000-840, Section 4, Removal/Installation requirements.

- (1) Return AHRU to LITEF GmbH.
- (2) Applicable work will be carried out by LITEF personnel to modify the AHRU.
- (3) Modified AHRU to be delivered to customer.
- (4) Prior to installation on the aircraft verify whether SB 141450-0000-003 has been applied. If applied, reverse steps 6, 8 and 9 of section 2 of the bulletin.

- (5) Prior to installation on the aircraft refer to IMI : P/N 141450-0000-840 (Rev. 3), Section 1, Chapter 12, System Wiring, and verify that the wiring and shielding conform to the information as laid out in this chapter.

3 MATERIAL INFORMATION

Not applicable.

