



PILATUS AIRCRAFT LTD. CH-6371 STANS, SWITZERLAND

SERVICE LETTER

SUBJECT: LCR-92 AHRS - CALIBRATION FAILURE OF THE MAGNETIC SENSING UNIT

To all Customers and Operators:

Date: Jun 23/04

This Service Letter is issued to draw attention to the following vendor information:

LITEF SERVICE INFORMATION LETTER (SIL) 141450-0000-840-010 ISSUE 3 - MSU Calibration Failure

This Service Letter is applicable to LCR-92 AHRS (Part Number 124210-2011 to Mod. 003 and 004 Standards). This Service Letter supersedes Service Letter 067 which contained LITEF SIL 141450-0000-840-010 ISSUE 1 (Part Number 124210-2011 to Mod. 003 Standard).

All Customers and Operators with the above LCH-92 AHRS installed are to be aware that there can be a shut down problem during calibration of the Magnetic Sensing Unit. LITEF SIL 141450-0000-840-010 ISSUE 3 gives an alternative procedure to be carried out if the failure occurs. This problem can only occur during ground calibration of the system and has no effect on flight safety.

Operators requiring further information on this subject, please contact one of the addresses given below:

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

General Aviation
Tel : + 41 41 619 6208
Fax: + 41 41 619 7311
eMail: SupportPC12@pilatus-aircraft.com
Government
Tel: + 41 41 619 6509
Fax: + 41 41 619 6224
eMail: rpaterson@pilatus-aircraft.com

PILATUS BUSINESS AIRCRAFT LTD.,
PRODUCT SUPPORT DEPARTMENT,
11755 AIRPORT WAY,
BROOMFIELD, CO 80021.
USA

Tel : 303 465 9099
Fax: 303 465 6040
eMail: Productsupport@PilBal.com

PILATUS AUSTRALIA (Pty.) LTD.,
PO BOX 732,
MARLESTON SA 5033,
AUSTRALIA

Tel : (08) 8234 4433
Fax: (08) 8234 4499
Free Call: 1800 445 007
eMail: info@pilatus.com.au

Attachments: LITEF SIL 141450-0000-840-010 ISSUE 3

System: LCR-92 AHRS

Part Number: 124210-XX11 / Mod. 003
124210-XX11 / Mod. 004
124210-XX22
141852-XX11 / Mod. 003
141852-XX22

SUBJECT: MSU Calibration Failure

TO: TC/STC Holders, OEMs, Customers, operators and maintenance personnel of above mentioned AHRS

1 Reason

This service information letter is issued to inform TC/STC holders, OEMs, customers, operators and maintenance personnel about a potential failure of the LCR-92 Attitude and Heading Reference System (AHRS), that might happen on ground during the Calibration of the Magnetic Sensing Unit (MSU).

2 Description

At the end of the MSU Calibration the calculated calibration data will be stored automatically in the MSU CalPROM. Occasional system shut downs have been observed during this process. In these cases the CalPROM is programmed with inconsistent data. When the system is switched on again the heading warning flags stay in view.

Those shut downs are caused by the calibration part of the software and occur randomly. The MSU calibration software is not part of the operational software and is only active when the AHRS is in calibration mode. This mode can only be activated on ground and with enabling the MSU Cal Mode Switch or by remote discrete setting. For this reason the failure can only occur during the MSU Calibration.

The flight safety is not affected.

3 Work Around

If the failure occurs, LITEF recommends to repeat the MSU Calibration. Because the warning flags are permanently in view, the flags can no longer be used for information to enter the next step of the calibration process. LITEF recommends to use the following alternative procedure:

- (1) Switch On the system and wait 60 sec. (Air/Ground Signal: "On Ground")
- (2) Set MSU Calibration Switch (-Discrete) to "On"
- (3) Wait 2 min.
- (4) Turn to the next Calibration Position (45°)
- (5) Wait 2 min.
- (6) Repeat Step (4) and (5) for all Calibration Positions (90°, 135°, 180°, 225°, 270°, 315°)
- (7) Switch Off the system and disable MSU Calibration Switch (-Discrete)
- (8) Switch On the system and check proper function.

This procedure is a valid MSU Calibration and the CalPROM is reprogrammed.

If this fails again replace the CalPROM and return it to the next authorized repair station.

4 Effectivity

All LCR-92 systems with the part numbers defined above are affected.

ADDRESS

Please address all requests or correspondence with regards to this
Service Information Letter
to:

LITEF GmbH
Product Support
Commercial Avionics
Loerracher Str. 18
79115 FREIBURG
Germany
Tel: ++49 761 4901-291
Fax: ++49 761 4901-572