

Service Bulletin No: 21-011

Ref No: 246

Modification No: EC-09-0302

ATA Chapter: 21

**AIR CONDITIONING - PRESSURIZATION CONTROL
INTRODUCTION OF CABIN PRESSURE CONTROL UNIT P/N 959.90.91.143****1. Planning Information****A. Effectivity**

PC-12/47E aircraft MSN 545 and MSNs 1001 thru 1180.

All Cabin Pressure Control Units P/N 959.90.91.142 held as spare or in stock.

B. Concurrent Requirements

None.

C. Reason**(1) Problem:**

PC-12/47E aircraft with Cabin Pressure Control Unit (CPCU) P/N 959.90.91.142 (Honeywell P/N 2119232-2).

Field reports have indicated that an erratic sensor output in the CPCU may cause erroneous CABIN ALTITUDE warning, CABIN PRESSURE warning and caution. It may also cause the cabin pressure to fluctuate.

(2) Cause:

Intermittent faults in the CPCU sensor circuit can result in erratic sensor outputs. The Built In Test (BIT) may not detect the intermittent failure. This means that the CPCU cannot automatically transfer control from a faulty channel to a good channel.

(3) Solution:

Install updated Software for the CPCU

OR

Install an updated CPCU, P/N 959.90.91.143 (Honeywell P/N 2119232-3).

The updated CPCU algorithms are improved to detect an erratic sensor output and to make sure that control is automatically switched from the erroneous channel to the good channel.

D. Description

This Service Bulletin gives the data and instructions necessary to use Honeywell Service Bulletin 2119232-21-4222:

- to install the new CPCU software
- OR
- to replace the installed CPCU with the new unit, P/N 959.90.91.143 (Honeywell P/N 2119232-3).

E. Compliance

Recommended.

F. Approval

The technical content of this document is approved under the authority of DOA No. EASA. 21J. 357.

PILATUS advises Operators/Owners to check with their local Airworthiness Authorities for any changes, local regulations or sanctions that may affect the embodiment of this Service Bulletin.

G. Manpower

(1) Install the Updated CPCU Software:

Task	Man-hours
Get access to the CPCU	0.5
Install Updated CPCU Software	1.5
Close Up	0.5
TOTAL MAN-HOURS	2.5

(2) Replace the CPCU:

Task	Man-hours
Removal of the CPCU	1.0
Installation and test of the CPCU	2.0
Close Up	0.5
TOTAL MAN-HOURS	3.5

H. Weight and Balance

Not affected.

I. Electrical load Data

Not changed

J. Software:

The new CPCU has updated software to Honeywell P/N 2119232-3 (Pilatus P/N 959.90.91.143) configuration.

K. References

Aircraft Maintenance Manual (AMM), 12-B-21-30-01-00A-903A-A, 12-B-21-30-01-00A-920A-A, 12-B-24-00-00-00A-901A-A, 12-B-25-21-04-00A-920A-A, 12-B-25-22-04-00A-920A-A, 12-B-45-45-00-00A-331A-A.

Honeywell Service Bulletin 2119232-21-4222 (at the latest revision).

L. Publications Affected

Illustrated Parts Catalog (IPC).

M. Interchangeability of Parts:

One-way interchangeable. Pre Service Bulletin 21-011 CPCUs must not be installed on Post Service Bulletin 21-011 aircraft.

2. Material - Price and Availability

Operators should send orders for Service Bulletin Modification Kits, to their Authorized Pilatus Service Center, or to::

PILATUS AIRCRAFT LTD.,
COORDINATOR SERIALISATION PC-12 NG,
CH-6371 STANS,
SWITZERLAND

Markus Flury
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PILATUS AUSTRALIA (PTY.) LTD,
CUSTOMER SUPPORT MANAGER PC-12
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Operators are requested to advise Pilatus Aircraft Ltd, of the Manufacturer's Serial Number (MSN) and the flying hours of aircraft which are affected by this Service Bulletin.

A. Warranty

Honeywell agrees to cover the costs for parts and labor of affected aircraft on approval of a warranty claim, provided the work is accomplished by an appropriately rated Honeywell Service Center within 12 months of the issue date of this Service Bulletin. A properly completed warranty claim may be filed by accessing the Honeywell Aerospace web page at: <https://portal.honeywell.com/wps/portal/aero/serviceprograms/warranty>.