

Service Bulletin No: 45-006

Ref No: 271

Modification No:

ATA Chapter: 45

**CENTRAL MAINTENANCE SYSTEM - SYS 2 WIRING HARNESS - INSPECT SPLICES AND CRIMPS****1. Planning Information****A. Effectivity**

PC-12/47E Aircraft MSNs 1228, 1231, 1235, 1236, 1237, 1238, 1240, 1244, 1245, 1248, 1251, 1253, 1254, 1256, 1259 and 1261.

**B. Concurrent Requirements**

None

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

During production, a quality inspection noted that some SYS 2 wiring harnesses had been delivered with poor splices and crimps, in particular the CAN bus wire splices. This issue could affect the autopilot reliability.

**NOTE:** Wiring failures on the Can Bus are detectable by APEX and would result in an A/P disconnect, which is indicated to the pilot.

The areas of concern are:

(a) Splicing of the Can Bus wires from MAU to the AP Pitch & Roll servos (Wiring Diagram 522.10.12.016) at:

- Cable C240D24 - Hexashield connector A200-8P1 (Contacts 41 & SP200E)
- Cable C240C24 - Hexashield connector A200-8P1 (Contacts 42 & SP200F)
- Cable C241D24 - Hexashield connector A200-8P2 (Contacts 33 & SP200G)
- Cable C241C24 - Hexashield connector A200-8P2 (Contacts 34 & SP200H).

**(2) Solution**

Inspect the crimps and splices of the SYS2E cables for correct assembly. Repair as needed.

**D. Description**

This Service Bulletin gives the data and instructions necessary to inspect the crimps/splices of the SYS2E MAU Hexashield connectors A200-8P1 and A200-8P2.

**E. Compliance**

Recommended.

**F. Approval**

The technical content of this Service Bulletin 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.

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**H. Manpower**

	Total
a Preparation	2.0
b Inspection	1.0
c Repair (if needed)	3.0
d Close up	2.0
<b>e TOTAL MAN-HOURS</b>	<b>8.0</b>

**I. Weight and Balance**

None.

**J. Electrical Load Data**

No change.

**K. Software**

No change.

**L. References**

Aircraft Maintenance Manual (AMM):

- |                          |                          |
|--------------------------|--------------------------|
| 12-B-06-20-00-00A-040A-A | 12-B-20-50-10-00A-920A-A |
| 12-B-22-10-00-00A-903A-A | 12-B-24-00-00-00A-901A-A |
| 12-B-25-21-01-00A-920A-A | 12-B-25-21-04-00A-920A-A |
| 12-B-25-22-01-00A-920A-A | 12-B-25-22-04-00A-920A-A |
| 12-B-31-41-00-00A-920A-A |                          |

**M. Publications Affected**

Not applicable.

**N. Interchangeability of Parts**

Not applicable.

**2. Material Information****A. Material - Price and Availability**

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

If you want more information about this Service Bulletin, please contact your local Service Center, or:

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

General Aviation:  
Tel: + 41 41 619 3333  
Fax: + 41 41 619 7311  
eMail: SupportPC12@pilatus-aircraft.com

PILATUS BUSINESS AIRCRAFT LTD.,  
PRODUCT SUPPORT DEPARTMENT  
11755 AIRPORT WAY  
BROOMFIELD, CO 80021.  
UNITED STATES OF AMERICA

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

PILATUS AUSTRALIA (PTY.) LTD,  
17 JAMES SCHOFIELD DRIVE,  
ADELAIDE AIRPORT SA 5950,  
AUSTRALIA

Tel: (08) 8234 4433  
Fax: (08) 8234 4499  
Free Call: 1800 445 007  
eMail: supportpc12@pilatus.com.au

**B. Warranty**

Credit for 5 manhours labour will be issued for the inspection of all affected aircraft on approval of a warranty claim, provided the aircraft is within the two year system warranty and the work is accomplished by an authorized Service Center within twelve months from the issue date of this Service Bulletin.

If it is necessary to carry out a repair as a result of this inspection, an additional credit for 3 manhours labor will be issued, (Para 1.H.c.).