

Service Bulletin No: 27-013

Ref No: 133

Modification No:

ATA Chapter: 27

**FLIGHT CONTROLS - FLAPS
INTRODUCTION OF A NEW POWER DRIVE UNIT (PDU)****1. Planning Information****A. Effectivity**

(1) All PC-12 and PC-12/45 aircraft from MSN 101 up to and including MSN 400.

B. Concurrent Requirements

Supersedes Service Bulletin 27-011 Part B.

Aircraft MSN 101 thru 320 must be post Service Bulletin 27-008.

C. Reason**(1) Problem**

A PDU will be available as a replacement for the PDU in-service at this time. If the installed PDU must be replaced, changes to the flap control circuit are necessary.

(2) Cause

The new design of PDU includes part of the control logic for the flap system.

(3) Solution

On installation of the new PDU, it is necessary to remove some of the aircraft components and flap circuitry.

D. Description

This Service Bulletin gives the data and instructions to change the wiring and to remove and install components as necessary.

Revision No. 1 to this Service Bulletin deletes the PDU kit (978.73.20.003) from Service Bulletin Kit (500.50.12.250) and includes it in a new "Additional Materials to be Procured" list. This permits independent procurement of the PDU Kit (978.73.20.003) from the other items in the Service Bulletin Kit (500.50.12.250) when the Service Bulletin has been accomplished.

Revision No. 2 to this Service Bulletin removes the instruction to open and close CB906 for aircraft post SB 22-004. It also updates the approval statement in Para. 1.F and the Pilatus contact information in Para. 2.A.

Revision No. 3 to this Service Bulletin corrects the Pilatus contact information in Para. 2.A, the figure reference on page 16 step 30 (a), and also corrects Figure 43 Detail D measurement to 38 mm. If this Service Bulletin has been accomplished on an aircraft at a previous revision standard, no rework is needed.

E. Compliance

Operator's decision.

Necessary if PDU must be replaced and PDU Part No. 978.73.20.001 or 978.73.20.002 is no longer available.

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.

G. Manpower

| | Total aircraft with cabinets | Total aircraft without cabinets |
|---|---------------------------------|------------------------------------|
| Preparation, | 9.0 | 5.0 |
| Replacement of the PDU | 2.0 | 2.0 |
| Electrical modification of the Flap System | 31.0 | 31.0 |
| Close up and Test | 6.0 | 2.0 |
| TOTAL MAN-HOURS | 48.0 | 40.0 |

NOTE: Man-hours figures do not include the time required to cure sealants and adhesives.

H. Weight and Balance

(1) Weight Change

| MSN 101 thru MSN 200 | MSN 201 thru MSN 320 | MSN 321 thru MSN 400 |
|----------------------|----------------------|----------------------|
| + 3.12 kg (6.87 lb) | + 2.74 kg (6.03 lb) | + 2.74 kg (6.03 lb) |

(2) Moment Change

| MSN 101 thru MSN 200 | MSN 201 thru MSN 320 | MSN 321 thru MSN 400 |
|------------------------------|------------------------------|------------------------------|
| + 22.89 kgm (1986.95 lb. in) | + 20.32 kgm (1763.66 lb. in) | + 19.70 kgm (1709.80 lb. in) |

I. Electrical Load Data

0.75 Amps increase on the battery bus when the flap system is on standby.

15 Amps decrease on the battery bus when the flap system is in operation.

J. Software

Not changed.

K. References

Aircraft Maintenance Manual (AMM), 06-20-00, 21-30-00, 24-00-00, 24-30-07, 25-10-01, 25-10-03, 25-21-01 or 25-22-01, 25-21-03 or 25-22-03, 25-21-04 or 25-22-04, 25-21-05, 27-50-00, 27-50-02, 27-50-07, 32-30-00 and 34-25-01.

L. Publications Affected

IPC, 27-50-00.

AMM, 27-50-00, 27-50-05, 27-50-06.

M. Interchangeability of Parts

Pre and Post Service Bulletin 27-013 PDUs are not interchangeable.

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

If replacement of bolt (or bolts) (P/N 532.10.12.110, P/N 532.10.12.077 and P/N 532.10.12.202) is necessary, Operators should send orders for Service Bulletin Modification Kits, to their Authorized Pilatus Service Center or:

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