

# SERVICE BULLETIN

SERVICE BULLETIN NO: 27-003

REF NO: 074

MODIFICATION NO:

ATA CHAPTER: 27

## FLIGHT CONTROLS - FLAPS - REPLACEMENT OF ALL FLAP DRIVE SHAFTS

### 1. Planning Information

#### A. Effectivity

- (1) All PC-12 and PC-12/45 aircraft from MSN 101 up to and including MSN 239.
- (2) This Service Bulletin will be incorporated prior to delivery on aircraft MSN 240 and subsequent.
- (3) All flap drive shafts held as spare parts must be returned to PILATUS AIRCRAFT LTD. for replacement.

#### B. Concurrent Requirements

None.

#### C. Reason

##### (1) Problem

Some flexible shafts in the flap drive system have been found corroded.

In very bad cases, if not found, this could lead to the rupture of the flexible shafts.

##### (2) Cause

Moisture from the pressurized cabin can enter the flap drive shafts through the unsealed areas of the flap drive shaft attachments and the shaft casings.

##### (3) Solution

Replacement of the flap inboard and outboard flap drive shafts with modified shafts, and the installation of new gaskets, on the Power Drive Unit.

#### D. Description

This Service Bulletin describes how to replace all flap drive shafts. The installation of additional gaskets, either side of the Power Drive Unit (PDU), the installation of modified clamps that attach the flap drive shafts on to the PDU and the modification of two support brackets.

The opportunity of open access to the flap system is also used to accomplish a full flap rigging procedure to make sure that the flaps are correctly rigged.

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**E. Compliance**

**FOR PLANNING PURPOSES**

Mandatory.

Required within the next 180 days, after the effective date of this Service Bulletin.

**F. Approval**

The technical aspects of this Service Bulletin have been approved by the Federal Office for Civil Aviation (FOCA) of Switzerland as an Airworthiness Directive.

**NOTE:** 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 for the Aircraft Inspection Procedure**

Tasks	Total
Preparation	3.0
Remove the flap drive shafts	3.0
Removal of the actuators	0.5
Modification of the brackets	1.0
Grease and replace the flap drive shafts	2.0
Installation of actuators and adjustment of the flap system	8.0
Close up	1.5
<b>TOTAL MAN-HOURS</b>	<b>19.0</b>

**H. Manpower for the Spares Inspection Procedure**

Return all stock of flap drive shaft assemblies (P/N: 945.02.02.101- Inner & 945.02.02.102 - Outer) to your Authorized Pilatus PC-12 Service Centre or PILATUS AIRCRAFT LTD.

**I. Weight and Balance**

**(1) Weight Change**

Not affected.

**(2) Moment Change**

Not affected.

**J. Electrical Load Data**

Not changed.

**K. Software**

No changed.

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**L. References**

**FOR PLANNING PURPOSES**

Aircraft Maintenance Manual (AMM), 06-20-00, 24-00-00, 25-21-04, 25-22-04, 25-21-01, 25-22-01, 27-50-00, 27-50-02 and 27-50-03.

Illustrated Parts Catalog (IPC), 27-50-00.

**M. Publications Affected**

Aircraft Maintenance Manual (AMM), 05-10-20 and 27-50-00.

Illustrated Parts Catalog (IPC), 27-50-00.

**N. Interchangeability of Parts**

Not affected.

**2. Material Information**

**A. Material - Price and Availability**

Operators should send orders, for parts in this Service Bulletin, to their Authorized Pilatus PC-12 Service Center.

or:

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CH 6371 STANS      Tel: +41 41 619 63 19  
SWITZERLAND      Fax: +41 41 610 33 51

**NOTE:** Operators are requested to advise Pilatus Aircraft Ltd, using the Service Bulletin Evaluation Sheet, of the Manufacturer's Serial Number (MSN) and the flying hours of aircraft which are allocated for this Service Bulletin.