

SERVICE BULLETIN

SERVICE BULLETIN NO: 27-003

REF NO: 197

MODIFICATION NO: EC 08-0510

ATA CHAPTER: 27

FLIGHT CONTROLS - FLAPS REPLACEMENT OF THE LEAF SPRINGS IN THE FLAP OPERATING MECHANISM

1. Planning Information

A. Effectivity

PC-6 aircraft MSN 101 thru 999 and MSN 2001 thru 2092 with mechanically operated flaps and leaf springs P/N 6232.0175.01 installed in the overhead flap-operating mechanism.

B. Concurrent Requirements

None.

C. Reason

(1) Problem

An Operator reported an un-commanded movement of the flap system. The un-commanded movement was because of cracked leaf springs P/N 6232.0175.01 installed in the overhead flap-operating mechanism of some PC-6 aircraft.

(2) Cause

It is possible that the leaf springs P/N 6232.0175.01 were not manufactured correctly.

(3) Solution

Replace the leaf springs (P/N 6232.0175.01) installed in the overhead flap-operating mechanism for this newly manufactured leaf spring (P/N 116.45.06.040).

D. Description


This Service Bulletin gives the data and instructions necessary to:

- Remove the three leaf springs P/N 6232.0175.01 installed in the overhead flap-operating mechanism.
- Install three new leaf springs P/N 116.45.06.040 in the overhead flap-operating mechanism.

E. Compliance

Recommended.

NOTE: Accomplishment of this Service Bulletin removes the requirement for the repeat inspections detailed in Service Bulletin 27-002.


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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

	Man-Hours
Modification	0.15
Close-Up	0.15
TOTAL	0.30

H. Weight and Balance

(1) Weight Change

Not affected.

(2) Moment Change

Not affected.

I. Electrical Load Data

Not changed.

J. Software

Not changed.

K. References

None.

L. Publications Affected

Aircraft Maintenance Manual (AMM). Chapter 5.

Illustrated Parts Catalog (IPC). 27-41-11.

M. Interchangeability of Parts

Not applicable.

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2. Material Information

A. Material - Price and Availability

No modification kit is necessary for this Service Bulletin.

Operators should send orders for the Service Bulletin parts to:

PILATUS AIRCRAFT LTD,
CUSTOMER LIAISON MANAGER,
CH 6371 STANS, Tel: +41 41 619 65 80
SWITZERLAND Fax: +41 41 619 65 76
E-mail: ahofer@pilatus-aircraft.com

B. Material Necessary for Each Aircraft

These parts are required to do this Service Bulletin on one aircraft:

New Part No.	Description	Old Part No.	Qty	Disp. Code	Fig	Item
116.45.06.040	LEAF SPRING	6232.0175.01	3	D	1	3

Disposition Codes: D - Discard / R - Return to Pilatus

C. Operator Supplied Materials

None.

D. Special Tools

None.

E. Operator Supplied Tools


None.

F. Material Necessary for Each Spare

Not applicable.

G. Reidentified Parts

Not applicable.


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3. Accomplishment Instructions

A. Modification (Ref. Fig. 1)

- (1) Remove the nut (1), the washers (2) and (4) and the screw (5).
- (2) Remove the three leaf springs (3).
- (3) Put the new leaf springs (6) (P/N 116.45.06.040) in position.

NOTE: The new leaf springs (6) (P/N 116.45.06.040) have 45 degree chamfers adjacent to the attachment hole.

- (4) Install the screw (5), the washers (4) and (2) and the nut (1).

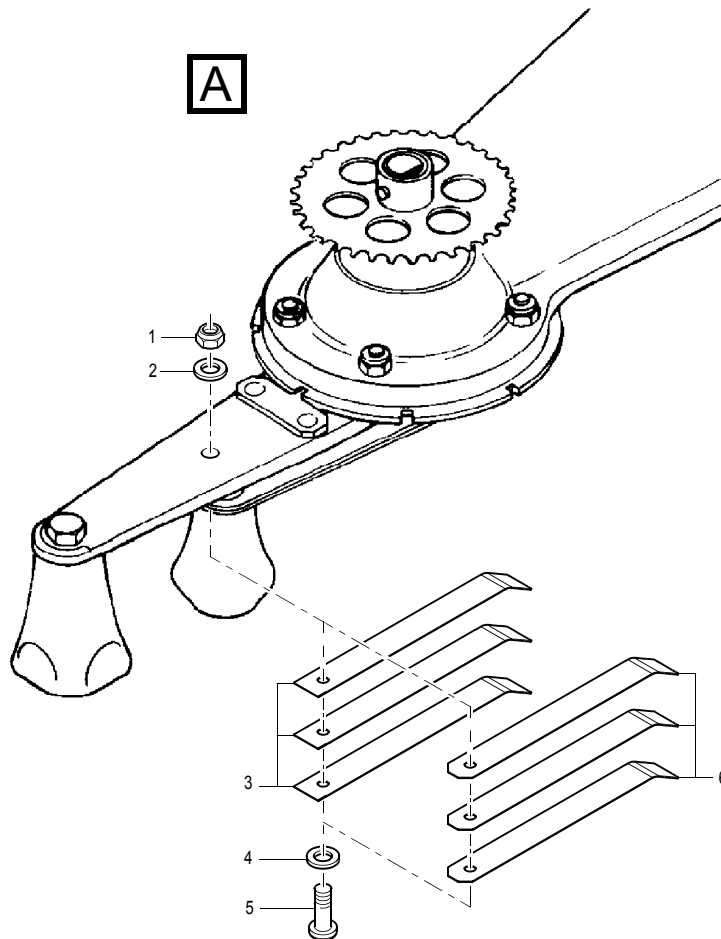
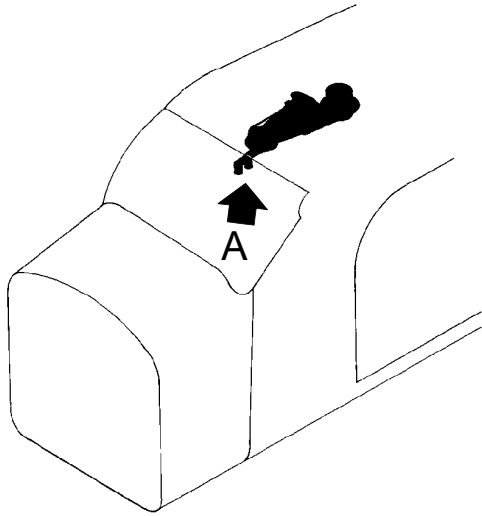
B. Close up

Remove all tools and materials. Make sure that the work areas are clean.


C. Documentation

- (1) Make an entry in the Aircraft Logbook that this Service Bulletin has been incorporated.
- (2) Use the Service Bulletin Evaluation Sheet and report your results and the serial number of the aircraft to PILATUS.

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Leaf Springs - Removal / Installation
Figure 1

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