

SERVICE BULLETIN

SERVICE BULLETIN NO: 32-018

REF NO: 196

MODIFICATION NO: ECN 04-0333

ATA CHAPTER: 32

LANDING GEAR - MAIN LANDING GEAR SPECIAL BOLT ASSEMBLY - INSPECTION AND REPLACEMENT

1. Planning Information - Part A

A. Effectivity:

- PC-12 and PC-12/45 aircraft MSN 101 thru MSN 620
- Main landing gear (MLG) assemblies (532.10.12.049/050) delivered before Dec 31/04 and held as spare
- Special bolts (bolts) (532.10.12.077) delivered before Dec 31/04 and held as spare

B. Concurrent Requirements

None

C. Reason

(1) Problem

It is possible for the heads to break from the shanks of the bolts (532.10.12.077). These bolts attach the hydraulic actuators to the left and right MLG assemblies. The separation of a bolt head has only occurred in a MLG assembly of a specified manufacturer.

(2) Cause

Corrosion has occurred in the area of the bolt head radius of a bolt (532.10.12.077) in a MLG assembly. This has caused the bolt to break with subsequent separation of the bolt head. The corrosion occurred in the damaged bolt because the bolt head was not primed and painted.

(3) Solution

- (a) Do inspections of the MLG assemblies to find bolts (532.10.12.077) that do not have primed and painted heads.
- (b) Replace bolts (532.10.12.077) that do not have primed and painted heads with bolts (532.10.12.077F) in all MLG assemblies.

D. Description

This Service Bulletin gives the data and instructions necessary to do inspections of the (left and right) MLG assemblies and if necessary, replace the bolts (532.10.12.077) with bolts (532.10.12.077F). The Service Bulletin is divided as follows:

- Sect. 1. Planning Information - Part A
- Sect. 2. Material Information - Part B
- Sect. 3. Accomplishment Instructions - Aircraft - Part C (Inspection)
- Sect. 4. Accomplishment Instructions - Aircraft - Part D (Replacement)
- Sect. 5. Accomplishment Instructions - Spares - Part E

E. Compliance

Mandatory.

Required within the next 100 hours time-in-service or three calendar months after the effective date of this Service Bulletin, whichever comes first.

F. Approval

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

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

The following man-hours are given for inspection and replacement of the two MLG assemblies:

	Total (Part C)	Total (Part D)
Inspection	0.5	N/A
Preparation	N/A	1.0
Replacement	N/A	1.0
Close up	N/A	1.0
TOTAL MAN-HOURS	0.5	3.0

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

Aircraft Maintenance Manual (AMM): 07-10-00, 07-20-00, 20-20-00, 20-20-01, 24-00-00, 29-00-00, 32-10-00 and 32-30-00.

L. Publications Affected

None.

M. Interchangeability of Parts

Not applicable.

2. Material Information - Part B

A. Material - Price and Availability

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

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