

# SERVICE BULLETIN

SERVICE BULLETIN NO: 32-011

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## LANDING GEAR - MAIN LANDING GEAR (MLG) INTRODUCTION OF A NEW NUT WHICH ATTACHES THE SHOCK-ABSORBER CYLINDER TUBE TO THE OUTER CYLINDER

### 1. Planning Information

#### A. Effectivity

- (1) All PC-12 and PC-12/45 aircraft from MSN 101 up to and including MSN 400 with these MLG assembly Part Numbers:

- 532.10.12.037
- 532.10.12.038
- 532.10.12.041
- 532.10.12.042
- 532.10.12.043 (Pre SB 32-006)
- 532.10.12.047 (Post SB 32-006)
- 532.10.12.044 (Pre SB 32-006)
- 532.10.12.048 (Post SB 32-006).

#### B. Concurrent Requirements

None

#### C. Reason

##### (1) Problem

The procedure to assemble the shock-absorber cylinder tube to the outer cylinder can cause damage to the installed seals.

##### (2) Cause

The nut which attaches the cylinder-tube to the outer cylinder is safetied with a cotter pin. To align the cotter pin holes in the nut and the cylinder tube it is necessary to loosen the nut after you have tightened it. It may be necessary to try different nuts to align the holes satisfactorily.

##### (3) Solution

At the next shock-absorber seal replacement, install a new cylinder tube nut which has lockwire safety holes. After the nut is tightened, no more adjustment is necessary and it is safetied with lock wire.

**D. Description**

This Service Bulletin gives the procedures to:

- (1) Remove the MLG shock absorber.
- (2) Disassemble the MLG shock absorber.
- (3) Assemble the MLG shock absorber and install the new safety nut.
- (4) Install the MLG shock absorber.

**E. Compliance**

Optional.

**F. Approval**

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

**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**

	Total
Preparation	N/A
Modification of the Shock Absorber	1/2
Close up	N/A
<b>TOTAL MAN-HOURS</b>	<b>1/2</b>

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

**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, 12-20-04, 32-10-00, 32-10-03.

**L. Publications Affected**

AMM, 32-10-00.

Illustrated Parts Catalog (IPC), Chapter 32-10-00.

Component Maintenance Manual (CMM), 32-10-05.

**M. Interchangeability of Parts**

Pre and Post SB shock absorbers are fully interchangeable.

**2. Material Information**

**A. Material - Price and Availability**

Operators should send orders for Service Bulletin modification kits, to their Authorized Pilatus Service Center, or to:

PILATUS AIRCRAFT LTD.,  
CUSTOMER LIAISON MANAGER,  
CH 6371 STANS,  
SWITZERLAND.

or PILATUS BUSINESS AIRCRAFT LTD.,  
PRODUCT SUPPORT DEPARTMENT,  
11755 AIRPORT WAY,  
BROOMFIELD, CO 80021.  
USA

Tel : + 41 41 619 6319 (General aviation)  
Tel : + 41 41 619 6509 (Government)  
Fax: + 41 41 619 6224

Tel : 303 465 9099  
Fax: 303 465 6040

**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.