

Service Bulletin No: 32-009

Ref No: 123

Modification No: EC-06-0873

ATA Chapter: 32

LANDING GEAR - MAIN LANDING GEAR - AXLE REPLACEMENT**1. Planning Information****A. Effectivity**

All PC-12 and PC-12/45 aircraft from MSN 101 up to and including MSN 320 which have main landing gears with the Part Numbers 532.10.12.043 or 532.10.12.047 (Left) and 532.10.12.044 or 532.10.12.048 (Right).

All PC-12 and PC-12/45 aircraft which have Service Bulletins 32-005 or 32-006 incorporated.

B. Concurrent Requirements

This Service Bulletin supersedes Service Bulletin 32-006.

C. Reason**(1) Problem**

- (a) Pre-Service Bulletin 32-006 aircraft.

In some aircraft the bolts which safety the main landing gear (MLG) trailing link pivot-pins (axles) have broken. Some axles have also been found to be corroded.

- (b) Post Service Bulletin 32-006 aircraft.

In some aircraft the movement of the MLG trailing link assemblies is not smooth. Unusual noises can be heard when the trailing link assemblies are moved. Also, the bushes which support the axles show signs of wear and a small quantity have become loose.

(2) Cause

- (a) Pre-Service Bulletin 32-006 aircraft

Very cold temperatures can make the grease in the MLG trailing link assemblies become hard and reduce its lubrication properties. The friction thus caused, prevents free movement of the axle which increases the (shear) force on the safety bolt during landings.

It is also easier for hard grease to wash out from between the components. This decreases the corrosion protection properties of the grease.

- (b) Post Service Bulletin 32-006 aircraft.

The layer of cadmium protection material on the surfaces of the (post Service Bulletin 32-006) axles can wear quickly because it is softer than the adjacent components. The eroded particles have a chemical effect on the grease in the MLG and trailing link assemblies which becomes hard and abrasive. This causes friction and subsequently, wear.

(3) Solution

Replace the pre and post Service Bulletin 32-006 axles with new axle assemblies which have hard chrome surfaces. Operators are also recommended to replace the axle bush bearings (bushes) if they have worn to 50% or more of the permitted limit.

D. Description

This Service Bulletin gives the data and instructions to:

- Inspect and, if necessary, replace the axle bushes in the MLG and trailing link assemblies
- Replace the axles.

Revision 1 to this Service Bulletin changes P/N. 532.10.12.201 with P/N. 532.10.12.210 in Modification Kit: 500.50.12.234.

Revision 2 to this Service Bulletin changes the layout to the latest format, updates the AMM references and updates the procedure to replace loose, worn or damaged bushes. Customers who have already embodied this Service Bulletin are advised to be aware of the updated inspection/bush replacement procedures given by this revision.

E. Compliance

Recommended.

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 designated Airworthiness Authority for any changes, local regulations or sanctions that may affect the embodiment of this Service Bulletin.

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H. Manpower

	Total Pre-SB 32-006	Total Post-SB 32-006
Preparation	0.5	0.5
Increase the diameter of the safety bolt hole	N/A	1.0
Axle Replacement	3.0	3.0
Close up	0.5	0.5
TOTAL MAN-HOURS	4.0	5.0

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

I. Weight and Balance

(1) Weight Change

Not changed.

(2) Moment Change

Not changed.

J. Electrical Load Data

Not changed.

K. Software

Not changed.

L. References

Aircraft Maintenance Manual (AMM)

12-A-07-10-00-00A-901A-A	12-A-20-20-00-00A-040A-A	12-A-20-31-00-00A-070A-A
12-A-24-00-00-00A-901A-A	12-A-29-00-00-00A-901A-A	12-A-32-10-00-00A-920A-A
12-A-32-10-02-00A-920A-A	12-A-32-30-00-00A-901A-A	12-A-32-30-00-00A-903A-A

Component Maintenance Manual 02099.

M. Publications Affected

IPC.

Component Maintenance Manual.

N. Interchangeability of Parts

Pre-Service Bulletin 32-006 axles are not interchangeable with post Service Bulletin 32-009 axles.

Post Service Bulletin 32-006 axles are interchangeable post Service Bulletin 32-009 axles.

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

If you want more information about this modification, contact your approved Service Center or:

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- B. 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.

Operators should send orders for Service Bulletin Modification Kits, to their Authorized Pilatus Service Center, or to::

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