

Service Bulletin No: 55-003

Ref No: 208

Modification No: EC-12-0422, EC-13-0405, EC-14-0131, EC-16-0430

ATA Chapter: 55

**STABILIZERS - ELEVATOR AND RUDDER
MODIFICATION OF THE HINGE BOLT INSTALLATION****1. Planning Information****A. Effectivity**

All PC-6 Series aircraft up to MSN 999.

Fairchild built PC-6 aircraft MSN 2001 thru 2092.

All pre-modification Elevator and Rudder Assemblies held as spares.

This modification will be incorporated in production on aircraft MSN 1000 and subsequent.

B. Concurrent Requirements

None.

C. Reason**(1) Problem**

Loose elevator and rudder hinge bolts have been reported. The upper hinge bolt on the rudder is installed head down. It is possible for this bolt to become detached if it becomes loose.

(2) Cause

The bolts are installed in nutplates and safetied with lockwire. If the lockwire is incorrectly installed the bolt can become loose.

(3) Solution

Make new access holes to permit access to the attachments and remove the nutplates. Install the rudder/elevator with new bolts and nuts safetied with cotter pins. Install the upper hinge bolt on the rudder with the head up. This Service Bulletin also includes an improvement to the installation of the RH aileron center hinge bolt.

D. Description

This Service Bulletin gives the data and instructions to:

- Cut access holes in the elevator and rudder
- Remove the nutplate from the nose rib and replace the hinge bolts/nuts
- Replace the hinge bolt/nut at the RH aileron center hinge
- Safety the new nuts with cotter pins

For elevators and rudders held as spare this Service Bulletin gives the data and instructions to cut access holes and remove the nutplate from the nose rib.

Revision 1 is issued to:

- Include additional elevator assemblies and amend the Effectivity
- Include explanatory notes in the Compliance
- Correct the part numbers of the post modification elevators
- Correct the position of the new access hole in the rudder
- Update the Material Necessary for Each Aircraft.

Revision 2 is issued to amend the post modification re-identification data for the elevators and update the Service Bulletin to the latest standard.

Operators who have modified an elevator P/N 6305.0010.54 and/or 6305.0010.55 in accordance with a previous issue of this Service Bulletin should correct the P/N as given in Para. 2.D.

Revision 3 is issued to amend the post modification re-identification data for the elevators and rudder and to update the Service Bulletin to the latest standard.

Operators with elevators and rudders with P/N not given in Para 2.D. can also embody the modification in accordance with this Service Bulletin. Do not change the P/N but re-identify the parts (POST SB 55-003) in accordance with the work steps given in Para 3. and 4.

E. Compliance

Recommended.

NOTE: Mandatory SB 55-001 introduced a more robust method of positive locking for the elevator and rudder hinge bolts. This SB (55-003) introduces an improved method of positive locking. The improved method of locking supersedes, but does not invalidate, the modifications accomplished by mandatory SB 55-001.

NOTE: For aircraft Pre SB 55-001, this SB can serve as an Alternative Means of Compliance (AMoC). Contact your National Airworthiness Authority to obtain approval to use this SB as an AMoC.

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

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H. Manpower

	Total Aircraft	Total Spares
Preparation	1.0	-
Modification - Elevators	5.0	5.0
Modification - Rudder	2.5	2.5
Modification - Aileron	2.0	-
Installation	2.0	-
Test	1.0	-
Close up	0.5	-
TOTAL MAN-HOURS	14.0	7.5

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

I. Weight and Balance

(1) Weight Change

None.

(2) Moment Change

None.

J. Electrical Load Data

Not changed.

K. Software

Not changed.

L. References

Aircraft Maintenance Manual (Holders of Doc. No. 01975 only): 20-31-00, 27-00-00, 27-15-00, 27-20-00, 27-25-00, 27-30-00, 27-32-00, 55-21-11, 55-41-11.

M. Publications Affected

Aircraft Maintenance Manual (Holders of Doc. No. 01975 only): 06-40-00, 55-21-11, 55-41-11, 57-61-11.

Illustrated Parts Catalog (Holders of Doc. No. 02039 only): 55-21-01, 55-23-01, 55-41-01, 55-43-01, 57-61-01.

N. Interchangeability of Parts

Pre and Post SB 55-003 elevator and rudder assemblies are interchangeable if the Aircraft Logbook is amended accordingly.

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

No Modification Kit is required for this Service Bulletin.

Operators who require further information and/or Service Bulletin material should contact their Authorized Pilatus Service Center, or: .

PILATUS AIRCRAFT LTD
CUSTOMER SUPPORT MANAGER
CH-6371 STANS
SWITZERLAND

General Aviation:
Tel: + 41 41 619 3333
Fax: + 41 41 619 7311
eMail: SupportPC12@pilatus-aircraft.com