

Service Bulletin No: 148

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Modification No:

ATA Chapter: 27

STABILIZER ELECTRICAL ACTUATOR TRIM SYSTEM**1. Planning Information****A. Effectivity****(1) Aircraft Affected**

All Pilatus PC6/B2-H2 Turbo Porter aircraft up to and including MSN 844.

(2) Spares Affected

The following spares held in Operators stores become redundant:

- Mechanical trim actuator P/N 6232.0198.53 applicable to aircraft up to and including MSN 723.
- Mechanical trim actuator P/N 6232.0198.54 applicable to aircraft MSN 724 onwards.
- Electrical trim actuator P/N 978.73.11.610 (original standard).
- Electrical trim actuator P/N 978.73.11.710 (later standard).
- Control column hand grips P/N 6232.0247.01 and 944.30.18.601.

NOTE: If aircraft is not equipped with hand grip P/N 944.30.18.721 or P/N 944.30.18.724, Operators must inform Pilatus Aircraft Ltd when ordering the parts.

B. Concurrent Requirements

None.

C. Reason**(1) Problem**

Aircraft to PC6/B2-H2 standard have a stabilizer trim system which is mechanical or have a electrical actuator that does not have a dual motor.

(2) Cause

Aircraft are made to PC6/B2-H2 standard design.

(3) Solution

Conversion of the stabilizer trim system to PC6/B2-H4 standard. This gives the additional operational safety of a electrically operated actuator with a dual motor.

D. Description

This Service Bulletin gives procedures to remove mechanical stabilizer trim system and installs an electrical system with a dual motor actuator (P/N 978.73.18.102). Procedures are also given

to modify aircraft with an older electrical stabilizer trim system to replace the actuator with the new dual motor actuator.

Revision 2 replaces Figure 9 and 11 wiring diagrams, removes Figure 9a and 11a wiring diagrams and replaces the system functional test procedure at Appendix A of this Service Bulletin.

Revision 3 fully revises and reformats the Service Bulletin into a contemporary Pilatus format and amends:

- The rivet P/N from 939.16.69.280 to 939.16.81.280 in the materials table
- The grommet P/N from 944.81.31.002 to 944.87.31.002 for the alternate switch and interrupt switch installation work steps
- The missing work step for the cable-tie (P/N 971.32.51.101) installation on the controls sticks
- The work steps to remove and install the fasteners installed through the mounting brackets, and bottom skin stringers. (Ref. Fig. 2).
- The work steps for installation of mounting bracket and of Frame 12A.
- The position of the teflon washers (8) at the top rod end of the actuator installation (Ref. Fig. 3)
- The missing P/N 110.71.06.049, 932.19.60.422, 938.07.68.204, 938.77.11.112, 971.31.32.502, 971.32.51.101, 938.78.13.104, and 944.48.81.000 in the applicable material lists
- The illustrations to give item numbers to illustrated parts with no item number
- The applicable work steps to identify the missing P/N and illustration item numbers
- The P/N of superceded parts that are no longer procurable and gives the new P/N.

No additional work is necessary for Operators that have previously embodied this Service Bulletin at a previous revision.

E. Compliance

Recommended.

NOTE: This Service Bulletin must be accomplished before conversion from H2 to H4 standard can be achieved.

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.

G. Copyright and Legal Statements

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H. Manpower

	Aircraft with Mech Trim	Aircraft with Elec Trim Up to MSN 825	Aircraft with Elec Trim From MSN 825 to 844
Preparation	2.0	2.0	2.0
Modification	41.0	21.0	6.0
Close Up	2.0	2.0	2.0
TOTAL MAN-HOURS	45.0	25.0	10.0

NOTE: Man-hours figures do not include the time required to cure sealants, paints 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): 06-00-00, 20-40-10, 24-32-11, 27-30-00, 27-40-00, 27-45-11, 27-45-12, 53-30-11, 53-30-00, 55-11-11, 55-21-11.

Structural Repair Manual (SRM): 51-00-03.

M. Publications Affected

Illustrated Parts Catalogue (IPC): 24-45-09, 24-51-00, 27-11-00, 27-45-00, 27-46-00.

Aircraft Maintenance Manual (AMM): 27-00-00, 27-40-00, 27-45-01, 27-45-11, 53-30-00, 55-11-11.

Aircraft Flight Manual (AFM): PC-6 AFM Supplement No. 1829.

N. Interchangeability of Parts

Pre and Post-Service Bulletin 148 items are not interchangeable.

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

Operators that require additional information and/or Service Bulletin Material should contact their authorized Pilatus Service Center, or Pilatus Customer Support on www.pilatus-aircraft.com → contact us.

NOTE: Part Numbers given in this Service Bulletin are correct at the time of approval. Pilatus Aircraft Ltd reserves the right to change the part numbers as necessary.

B. Warranty

Not applicable.