

SERVICE BULLETIN

SERVICE BULLETIN NO: 22-004

REF NO: 191

MODIFICATION NO: ECN 040426

ATA CHAPTER: 22

AUTOFLIGHT - AUTOPILOT PITCH ACTUATOR - REPLACEMENT

1. Planning Information

A. Effectivity

PC-12 and PC-12/45 aircraft MSN 101 thru MSN 620.

B. Concurrent Requirements

None

C. Reason

Replacement of pitch actuator (985.92.03.161) with pitch actuator (985.92.03.164) removes the following flying limitation: The autopilot must be disengaged before a flap selection of 40° is made (Ref. Pilots Operation Handbook (POH), Section 2 - Limitations TR. No.11 (Report 02211) or TR. No. 40 (Report 01973-001).

D. Description

This Service Bulletin gives the data and instructions necessary to replace the pitch actuator and, if necessary, modify the related wiring.

E. Compliance

Mandatory.

Required not later than December 31 2006 unless already accomplished.

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.


PC12
SERVICE BULLETIN

G. Manpower

	Total
Preparation	1.5
Replacement	1.0
Close up	2.0
TOTAL MAN-HOURS	4.5

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), 06-20-00, 22-10-02, 24-00-00, 25-21-01, 25-21-04, 25-22-01 and 25-22-04.

POH (01973-001) and (02211), Section 2

L. Publications Affected

Illustrated Parts Catalog, 22-10-00.

POH (01973-001) and (02211), Section 2

TR. No.11 (Report 02211) or TR. No. 40 (Report 01973-001)

M. Interchangeability of Parts

Pre and Post-Service Bulletin 22-004 pitch actuators are not interchangeable.

PILATUS
PC12
SERVICE BULLETIN

2. Material Information

A. Material Necessary for Each Aircraft

(1) Material to be Purchased

A Modification Kit is not necessary for this Service Bulletin.

(2) Additional Material to be Procured

New Part No.	Description	Old Part No.	Qty	Disp. Code	Fig	Item
985.92.03.164	Actuator (KSA372,065-00056-0059)	985.92.03.161	1	N	N/A	N/A

Disposition Codes: D - Discard / N - New / R - Return to Pilatus

(3) Operator Supplied Materials

Part No.	Description	Qty	Remarks
110.88.07.065	Safety Clip Assembly	1	Circuit breaker hold open

B. Warranty

Credit for work will be issued for all aircraft on approval of a warranty claim, provided the work is accomplished by an authorized Service Center not later than December 31 2006. The total manhours are calculated on work being accomplished during an annual inspection.

C. Material Necessary for Each Spare

Not applicable

3. Accomplishment Instructions - Aircraft

A. Preparation

- (1) Obey the electrical safety instructions given in Electrical Power - Maintenance Practices (Ref. AMM, 24-00-00, Page Block 201).
- (2) Remove the passenger seats as necessary to get access to Frame (FR) 24 (in aircraft MSN 101 thru MSN 400) or FR26 (in aircraft MSN 401 thru MSN 620) (Ref. AMM, 25-21-01 or 25-22-01, Page Block 401).
- (3) Remove the passenger compartment carpet as necessary for access to FR24 thru FR26 (Ref. AMM, 25-21-04 or 25-22-04, Page Block 401).
- (4) Remove the (floor) access panel 12EZ and sufficient insulation material to get access to FR24 (in aircraft MSN 101 thru MSN 400) or 12IZ to get access to FR26 (in aircraft MSN 401 thru MSN 621) (Ref. AMM, 06-20-00, Page Block 1).


PC12
SERVICE BULLETIN

B. Replacement

- (1) Disconnect and remove the pitch servo (Ref. AMM, 22-10-02, Page Block 401).
- (2) Make the wiring changes (Ref. Fig 1). This step is only applicable for aircraft MSN 321 and MSM 401 thru MSN 620.
 - (a) Disconnect the wire (C97C22) from terminal block (TB260-13/H).
 - (b) Remove the end connector from the wire (C97C22) then cap and stow.
- (3) Safety the circuit breaker (CB906) with the safety clip (110.88.07.065). This step is only applicable for aircraft MSN 101 thru MSN 320 and MSN 322 thru MSN 400.
- (4) Install the new pitch servo (Ref. AMM, 22-10-02, Page Block 401).

C. Close up

- (1) Remove all tools and materials. Make sure the work areas are clean.
- (2) Install the (floor) access panels: 12EZ or 12IZ and the applicable insulation material as necessary (Ref. AMM, 06-20-00, Page Block 1).
- (3) Install the passenger compartment carpet (Ref. AMM, 25-21-04 or 25-22-04, Page Block 401).
- (4) Install the passenger seats (Ref. AMM, 25-21-01 or 25-22-01, Page Block 401).

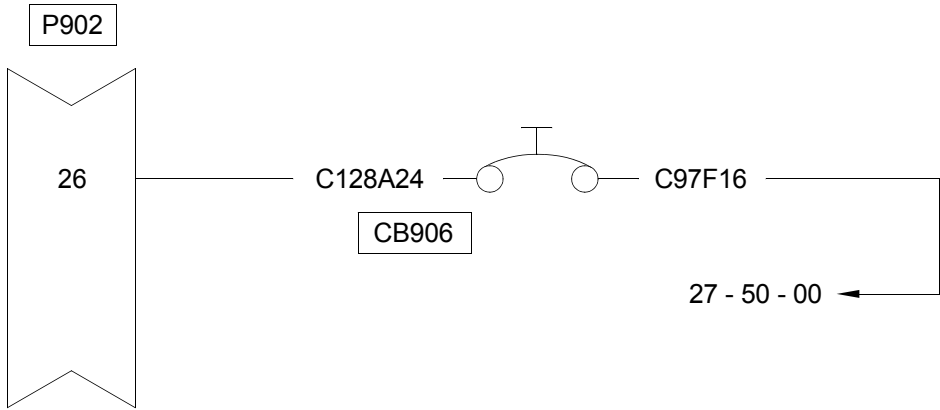
D. Documentation

- (1) Make an entry in the Aircraft Logbook that this Service Bulletin is incorporated.
- (2) Remove TR. No.11 (Report 02211) or TR. No. 40 (Report 01973-001) from the Pilots Operating Handbook (POH).

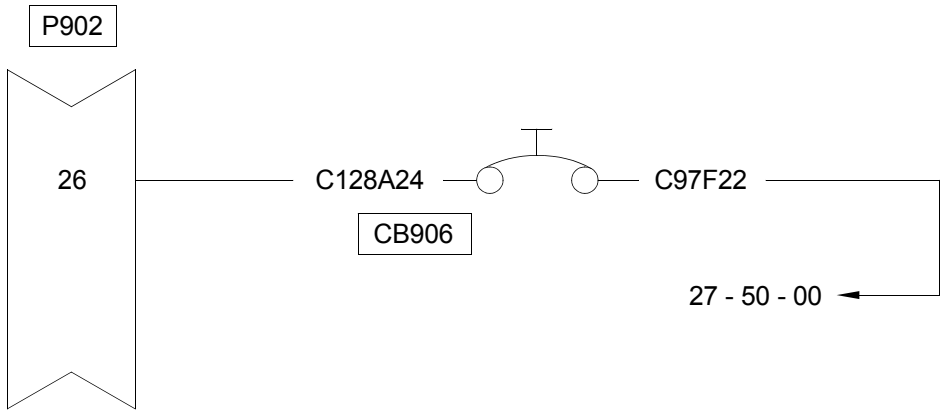
4. Accomplishment Instructions - Spares

Not applicable.

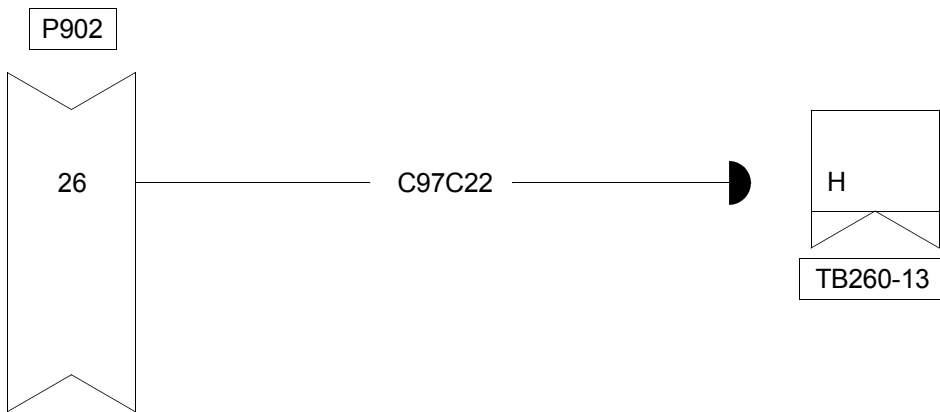
PILATUS PC12 SERVICE BULLETIN



MSN 101 thru MSN 230



MSN 231 thru MSN 320 and MSN 322 thru MSN 400



MSN 321 and MSN 401 and Subsequent

Wiring Diagram
Figure 1

SB1463