



PILATUS AIRCRAFT LTD. CH-6371 STANS, SWITZERLAND.

**FOR PLANNING PURPOSES**

# SERVICE BULLETIN

SERVICE BULLETIN NO: 04-001

REF NO: 019

MODIFICATION NO:

ATA CHAPTER: 04

## CONVERSION OF THE PC-12 TO A PC-12/45 VARIANT

### 1. Planning Information

#### A. Effectivity

PC-12 aircraft MSN101 thru MSN 683.

#### B. Reason

In order to enhance the operational capabilities of the PC-12 aircraft by increasing the maximum take-off weight (MTOW) by 400 kg, utilizing a higher stall speed (FAR 23 Amendment. 44).

**NOTE:** By incorporating this Service Bulletin on a PC-12 aircraft, the aircraft designation will become PC-12/45.

**NOTE:** Each Operator must check with their local Airworthiness Authority as to whether the PC-12/45 is certified in his Country.

Revision 1 of this Service Bulletin is issued to include component part number changes and other minor changes.

#### C. Description

**NOTE:** Depending on the MSN of the aircraft, it might be possible that some of these changes/modifications are already incorporated. Please check the aircraft status before ordering any spare parts.

Accomplishment of this Service Bulletin consists of completing the following tasks:

- (1) Installation of reinforcement plates on the main spar shear web, outboard of Rib 16, in both wings.

**NOTE:** This modification has been incorporated on aircraft with MSN 151 and subsequent and from MSN 181 and subsequent this modification has been superseded.

- (2) Installation of modified main landing-gear assemblies (P/N's: 532.10.12.043 (LH), 532.10.12.044 (RH), 532.10.12.047 (LH), 532.10.12.048 (RH), 532.10.12.049 (LH), 532.10.12.050 (RH), 532.10.12.051 (LH) or 532.10.12.052 (RH)).

**NOTE:** This modification has been incorporated on aircraft with MSN 161 and subsequent. However, it is possible that modified main landing-gear assemblies could subsequently have been replaced with pre-modified main landing-gear assemblies. An inspection to identify the P/N is therefore relevant.

- (3) Drain the existing brake fluid and replace with brake fluid (MIL-H-83282C).

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- (4) Install new tires (P/N: 959.56.01.305, 959.56.01.306 or 959.56.01.307) and replace the old stencil with a new stencil (P/N: 511.23.12.029) on LH and RH outer MLG doors indicating new tire pressures.
- (5) Check which Stick Pusher Computer is installed.  
**NOTE:** If the aircraft has the Stick Pusher Computer (P/N: 975.44.23.103), it must be replaced with the Stick Pusher Computer (P/N: 975.44.23.104).
- (6) Install a new Airspeed Indicator (P/N: 965.12.13.334) at the Pilot's position.  
**NOTE:** If the aircraft is equipped with a Co-pilot's instrument package, the existing airspeed indicator must be replaced with the new airspeed indicator (P/N: 965.12.13.335).
- (7) If the aircraft is not already equipped with a Radar Altimeter (KRA 405) (P/N: 985.99.11.569) or (KRA 405B) (P/N: 985.99.11.570). A Radar Altimeter must be installed (Ref. PC 12 SB No: 34-005).
- (8) If no AHRS 2 is installed, then an additional Gyro system must be installed (e.g. Yaw Rate Gyro (P/N: 500.20.12.132)) (Ref. PC-12 SB 34-004); or as an option a second AHRS unit may be installed (Ref. PC-12 SB 34-002 - dated Oct 10/96).
- (9) If the aircraft is fitted with standard corporate-utility passenger seats, they must be modified by drilling extra holes in the seat well.  
**NOTE:** This modification has been incorporated on aircraft with MSN 151 and subsequent. However, it is possible that standard seat assemblies could subsequently have been replaced with seat assemblies which have an older P/N. An inspection to identify the P/N is therefore relevant.
- (10) Install the various new placards, stencils and identification plate.
- (11) Readjust the flight idle for the PC-12/45 variant.

**D. Compliance**

Optional.

**E. Approval**

The technical content of this Service Bulletin is approved under the authority of DOA No. FOCA. 21J. 002.

**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.

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**Manpower**

<b>Task</b>	<b>Man-hours</b>
Preparation	7.0
Modify the following:	
- Installation of reinforcement plates in both wings	4.00
- Install modified main landing gear	16.0
- Replace brake system fluid with new type brake fluid	2.0
- Fit new 10 ply tires	3.0
- Install modified Stick Pusher Computer	3.0
- Install new Speed Indicator	1.5
- Modify each standard passenger seat	4.0
- Install placards, stencils and designation plate	2.5
- Close-Up	8.0
<b>TOTAL MAN-HOURS</b>	<b>51.0</b>
- Install additional Gyro system (if required - Ref. SB 34-004)	27.0 *
- Install a Radar Altimeter (if required - Ref. SB 34-005)	21.0 *
- Install a AHRS 2 unit (optional - Ref. SB 34-002)	22.0 *

**NOTE:** Man-hours figures are calculated for units installed in the aircraft and represent the total time estimated for the task.

**NOTE:** \* Refer to the relevant Service Bulletins for man-hours quoted but if these tasks are done in conjunction with PC 12 SB 04-001 the time load is greatly reduced.

**F. Material - Cost and Availability**

**(1) Material**

Operators should contact their authorized PILATUS SERVICE CENTER for this Service Bulletin modification kit, or contact the following for further information:

PILATUS AIRCRAFT LTD.  
CUSTOMER LIAISON MANAGER,  
CH-6371 STANS, Tel No: + 41 41-6196 509  
SWITZERLAND. Fax No: + 41 41-6103 351

**NOTE:** Operators are requested to advise Pilatus Aircraft Ltd. of the Manufacturers Serial Number (MSN) and the flying hours of the aircraft which are allocated for this Service Bulletin (Ref. Service Bulletin Evaluation form).

**(2) Cost and Availability**

**G. Special Tooling**

Brake Servicing Rig (Fluid MIL-H-83282C).

**H. Weight and Balance**

This could vary dependent on the final modifications actually fitted, therefore the aircraft must be weighed on completion of the Service Bulletin and the AFM amended.

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**I. References**

Aircraft Maintenance Manual (AMM) - Chapters 06-20-00, 07-10-00, 08-20-00, 29-00-00, 32-10-01, 32-10-03,

**J. Publications Affected**

Aircraft Maintenance Manual, Illustrated Parts Catalog and  
Airplane Flight Manual - (Report 01973-001) Weight and Balance Section.  
Airplane Flight Manual - (Report 01973-001) Supplement No: 8 (Rev. 1).