

Service Bulletin No: 30-007

Ref No: 176

Modification No: EC-07-0203

ATA Chapter: 30

**ICE AND RAIN PROTECTION - WINDSHIELD
REPLACEMENT OF THE OLD TYPE WINDSHIELDS WITH THE NEW TYPE WINDSHIELDS****1. Planning Information****A. Effectivity**

All PC-12 and PC-12/45 aircraft from MSN 101 up to and including MSN 201 that have the windshields PILATUS P/N: 959.81.10.101 left, 959.81.10.102 right or 959.81.10.103 right (PPG P/N: NP172121-1 left, NP172121-2 right or NP172121-3 right) installed.

Aircraft MSN 202 and subsequent have windshields P/N: 959.81.10.107 and P/N: 959.81.10.108 or P/N: 959.81.10.109 and P/N: 959.81.10.110 installed during manufacture.

B. Concurrent Requirements

None.

C. Reason**Product Improvement**

Windshields (P/N 959.81.10.107 and P/N 959.81.10.108 or P/N: 959.81.10.109 and P/N: 959.81.10.110) which incorporate improved de-icing systems are now available as a replacement option for windshields (959.81.10.101), (959.81.10.102) or (959.81.10.103).

The optional windshields have three embedded temperature sensors and three heating elements which give larger heated areas than the two heating elements in windshields (959.81.10.101) and (959.81.10.102) or (959.81.10.103). Additional wiring is necessary to complete the installation.

The windshield de-ice system is modified with the installation of new de-ice controllers for the left and right windshields together with a new terminal block with varistors. An updated power-supply circuit breaker and updated wires from the new de-ice controllers to the heating elements are also installed.

D. Description

This Service Bulletin gives the data and instructions necessary to replace the windshields.

Revision No. 1 to this Service Bulletin is issued to add the Engineering Change number and to change the quantity of the separators (P/N 971.42.31.613) from quantity 6 to quantity 8. Other minor changes have been done to bring this Service Bulletin to the latest standard.

Revision No. 2 to this Service Bulletin is issued to correct the length of some of the wires, change the diameter of the IMEX rivets from 3.3 mm diameter to 4.0 mm diameter, add some electrical connectors and correct the operational test of the windshield.

Revision No. 3 to this Service Bulletin is issued to correct the Windshield De-Ice System Test procedure.

E. Compliance

Optional.

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 local Airworthiness Authorities for any changes, local regulations or sanctions that can affect the embodiment of this SB.

G. Manpower

	Total
Preparation	20
Modification	30
Close up	40
TOTAL MAN-HOURS	90

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

H. Weight and Balance**(1) Weight Change**

Not affected.

(2) Moment Change

Not affected.

I. Electrical Load Data

This Service Bulletin increases the electrical load for each new windshield as follows:

Post-SB 30-007 windshields calculated maximum = 28.4 Amps
load

Pre-SB 30-007 windshields calculated maximum = 16.0 Amps
load

Electrical load increase = 12.4 Amps

J. Software

Not applicable.

K. References

Aircraft Maintenance Manual (AMM), 12-A-24-00-00-00A-901A-A, 12-A-24-30-07-00A-920A-A, 12-A-25-10-01-00A-920A-A, 12-A-25-10-03-00A-920A-A, 12-A-25-21-04-00A-920A-A, 12-A-25-22-04-00A-920A-A, 12-A-25-21-07-00A-920A-A, 12-A-30-40-01-00A-920A-A and 12-A-56-11-01-00A-920A-A.

Illustrated Parts Catalog (IPC), 12-A-30-40-00-01A-941A-A

L. Publications Affected

AMM, 12-A-30-40-00-00A-903B-A, 12-A-30-40-01-00A-920A-A and 12-A-56-11-01-00A-920A-A.

Aircraft Wiring Manual (WM), 24-30-10, 30-40-00 and 30-40-10.

IPC, 12-A-24-50-00-xxx-941A-A and 12-A-30-40-00-01A-941A-A.

M. Interchangeability of Parts

Pre and Post Service Bulletin windshields are not interchangeable. It is not permitted to install one pre and one post Service Bulletin windshield.

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

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

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

PILATUS BUSINESS AIRCRAFT LTD.,
PRODUCT SUPPORT DEPARTMENT
11755 AIRPORT WAY
BROOMFIELD, CO 80021.
UNITED STATES OF AMERICA

Tel: 303 465 9099
Fax: 303 465 6040
eMail: Productsupport@PilBal.com

PILATUS AUSTRALIA (PTY.) LTD,
17 JAMES SCHOFIELD DRIVE,
ADELAIDE AIRPORT SA 5950,
AUSTRALIA

Tel: (08) 8234 4433
Fax: (08) 8234 4499
Free Call: 1800 445 007
eMail: supportpc12@pilatus.com.au

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