

# SERVICE BULLETIN

SERVICE BULLETIN NO: 34-007

REF NO: 109

MODIFICATION NO:

ATA CHAPTER: 34

## NAVIGATION - FLIGHT ENVIRONMENT DATA PITOT HEAD ELECTRICAL HEATING CABLES - REPLACEMENT

### 1. Planning Information

#### A. Effectivity

- (1) All PC-12 and PC-12/45 aircraft from MSN 101 up to and including MSN 200.

The technical content of this Service Bulletin was incorporated prior to delivery on aircraft MSN 201 and subsequent.

#### B. Concurrent Requirements

None

#### C. Reason

##### (1) Problem

The 7.5 AMP circuit breaker and related wiring is incorrectly matched to the maximum potential, 15 AMP, current draw of the pitot head.

Although incorrect, the system is considered safe because the circuit breaker is correctly rated to protect the installed, 20 AWG, electrical cables. Furthermore, the initial 'inrush' current is above the rating of the circuit breaker. Tests have shown that the current in the pitot head quickly stabilizes to a value below that of the circuit breaker rating. This also takes into account varying electrical resistance caused by changes in temperature at altitude.

Although the power matching of the system is inappropriate, there have been no reported operational incidents of 'nuisance tripping' of the pitot system circuit breaker.

##### (2) Cause

Installation of inappropriate electrical cables and circuit breaker during manufacture.

##### (3) Solution:

- Remove the installed (20 AWG) cables
- Install cables of the correct specification (16 AWG)
- Replace the 7.5 AMP (PITOT DE-ICE) circuit breaker with a 15 AMP circuit breaker

#### D. Description

This Service Bulletin gives the data and instructions necessary to remove the installed cables assemblies, install new cable assemblies and replace the circuit breaker.

**E. Compliance**

Mandatory.

Required within the next six calendar months after the effective date of this Service Bulletin, unless already accomplished.

**F. Approval**

The technical aspects of this Service Bulletin have been approved by the Federal Office for Civil Aviation (FOCA) of Switzerland as an Airworthiness Directive.

**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.

**G. Manpower**

	Total (Standard passenger interior)	Total (Executive passenger interior)
Preparation	4	6
Modification of the Electrical Heating System	20	20
Close up	5	7
Test	1	1
<b>TOTAL MAN-HOURS</b>	<b>30</b>	<b>34</b>

**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**

Not changed.

**J. Software**

Not changed.

**K. References**

Aircraft Maintenance Manual (AMM), 06-00-00, 24-00-00, 24-30-07, 25-21-01, 25-21-04, 25-21-07, 25-22-04, 25-22-01, 27-50-00, 34-11-00 and 34-11-01.

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**L. Publications Affected**

Illustrated Parts Catalog, 24-50-00.

Wiring Manual, 30-30-00 and 30-30-10.

**M. Interchangeability of Parts**

Not applicable

**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 LIAISON MANAGER,  
CH 6371 STANS,  
SWITZERLAND.

or PILATUS BUSINESS AIRCRAFT LTD.,  
PRODUCT SUPPORT DEPARTMENT,  
11755 AIRPORT WAY,  
BROOMFIELD, CO 80021.  
USA

Tel : + 41 41 619 6319 (General aviation)

Tel : + 41 41 619 6509 (Government)

Fax: + 41 41 619 6224

Tel : 303 465 9099

Fax: 303 465 6040

**NOTE:** Operators are requested to advise Pilatus Aircraft Ltd, using the Service Bulletin Evaluation Sheet, of the Manufacturer's Serial Number (MSN) and the flying hours of aircraft which are allocated for this Service Bulletin.