

# SERVICE BULLETIN

SERVICE BULLETIN NO: 28-011

REF NO: 170

MODIFICATION NO:

ATA CHAPTER: 28

## FUEL - DISTRIBUTION FUEL BOOSTER PUMP - DAMAGE TO WIRES DURING INSTALLATION

### 1. Planning Information

#### A. Effectivity

- (1) All PC-12 and PC-12/45 aircraft from MSN 101 thru MSN 520 and with fuel booster pump (fuel pump) Part No. 968.84.11.401, 968.84.11.403 or 968.84.11.404 installed.
- (2) All fuel pumps Part No. 968.84.11.401, 968.84.11.403 or 968.84.11.404 held as spare.

#### B. Concurrent Requirements

None.

#### C. Reason

##### (1) Problem

It is possible the electrical power wires (leads) to the left and right fuel pumps are damaged. This could possibly cause electric arcs from the leads in an air/fuel mixture which could result in an unsafe condition.

##### (2) Cause

Damage can occur to the leads during the installation of the pump. It is also possible that during aircraft operation the leads can rub.

##### (3) Solution

Examine the leads for defects and apply a spiral wrap to give protection to the leads.

A Temporary Revision to the Pilots Operating Handbook (POH), pre-Service Bulletin 28-011, is necessary to prevent aircraft operation below a set fuel level.

Temporary Revisions to the Aircraft Maintenance Manual (AMM) change the defuel procedure Pre-Service Bulletin 28-011 and the fuel-pump installation-procedure.

Revision 1 of this Service Bulletin has added Fuel Pump Part No. 968.84.11.401. Redefined defect assessment and included wires with splices.

#### D. Description

This Service Bulletin gives the instructions how to examine the leads and to apply the spiral wrap.

The Temporary Revisions are attached to this Service Bulletin. Operators must insert the Temporary Revisions in the applicable Manual/POH as shown in the Temporary Revisions instructions.

**E. Compliance**

Mandatory.

Immediately on receipt of this Service Bulletin and before the next flight or maintenance procedure, insert the Temporary Revisions in the applicable POH and AMM.

Within the next 100 hours time-in-service (TIS) or six calendar months after the effective date of this Service Bulletin (whichever is the sooner), obey the instruction given in Sect 3, Paras A thru E of this Service Bulletin.

**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.

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
Fuel Pumps - Removal	1.5
Installation of Spiral Wrap	1.0
Fuel Pumps - Installation	2.0
<b>TOTAL MAN-HOURS</b>	<b>4.5</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) 12-10-01, 28-00-00 and 28-20-04,  
Temporary Revision (TR) 12-03, TR 28-02.

Pilots Operating Handbook (POH), TR 7 to Report No. 02211 and TR 37 to  
Report No. 01973-001.

FAA Advisory Circular (AC) 43.13-1B Paragraph 11-97. Wiring replacement.

**L. Publications Affected**

AMM, 12-10-01 and 28-20-04.

POH, Report No. 02211 and Report No. 01973-001.

**M. Interchangeability of Parts**

Pre and Post Service Bulletin 28-011 fuel pumps are not interchangeable.