

**FOR PLANNING PURPOSES**

# SERVICE BULLETIN

SERVICE BULLETIN NO: 28-012

REF NO: 217

MODIFICATION NO: EC-08-0279

ATA CHAPTER: 28

## FUEL - INDICATION SYSTEMS REPLACEMENT OF THE FUEL CONTROL MONITORING-UNIT (FCMU)

### 1. Planning Information

#### A. Effectivity

PC-12/47E aircraft MSNs 1001 thru 1033.

All FCMUs P/N 975.37.31.332 held as spare or in stock.

#### B. Concurrent Requirements

None.

#### C. Reason

##### (1) Problem:

In some conditions, the fuel balancing logic might tend to slightly overbalance which will result in a re-balance in the opposite direction. The Fuel Imbalance Fault Management has a limited fault detection which does not sense all fault conditions.

##### (2) Cause:

The Fuel Control and Monitoring Unit (FCMU) software is not sufficiently robust for turbulent conditions. The current software of the FCMU does not use the full potential of the fuel quantity measuring-system.

##### (3) Solution:

The balancing logic and the Fuel Imbalance Fault Management contained in the software of the FCMU has been updated. A new FCMU P/N 975.37.31.334 is installed.

#### D. Description

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

#### E. Compliance

Recommended.

**F. Approval**

The technical content of this document 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 may affect the embodiment of this Service Bulletin.

**G. Manpower**

<b>Task</b>	<b>Man-hours</b>
Preparation	1.0
Removal and Installation of a new FCMU	1.0
Close-Up	1.5
<b>TOTAL MAN-HOURS</b>	<b>3.5</b>

**H. Weight and Balance**

Not affected.

**I. Electrical load Data:**

Not changed

**J. Software:**

Not affected.

**K. References**

Aircraft Maintenance Manual (AMM), 12-B-06-20-00-00A-040A-A, 12-B-24-00-00-00A-901A-A, 12-B-25-21-04-00A-920A-A, 12-B-25-22-04-00A-920A-A, 12-B-28-40-04-00A-920A-A.

**L. Publications Affected**

Illustrated Parts Catalog (IPC), Chapter 28-40-00.

**M. Interchangeability of Parts:**

One-way interchangeable. Pre Service Bulletin 28-012 FCMUs must not be installed on Post Service Bulletin 28-012 aircraft.

**2. Material Information**

**A. Material - Price and Availability**

No modification kit is required for this Service Bulletin.

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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.

**B. Warranty Claim**

Credit will be issued for all affected aircraft on approval of a warranty claim provided the work is accomplished by an authorized Service Center within 24 months from the effective date of this Service Bulletin and the part has been returned to Pilatus.

**NOTE:** Operators that do not accomplish this Service Bulletin within the specified time frame will no longer receive warranty consideration for any FCMU failures.

**NOTE:** The accomplishment of this Service Bulletin should be scheduled during the annual inspection or any convenient time during which the applicable center floor panel is removed.