

SERVICE BULLETIN

SERVICE BULLETIN NO: 77-001

REF NO: 38

MODIFICATION NO:

ATA CHAPTER: 77

INSTALLATION OF THE ENGINE TRENDCHECK (ECTM RECORDING)

1. Planning Information

A. Effectivity

All PC-12 and PC-12/45 aircraft.

B. Reason

This Service Bulletin introduces an Engine TrendCheck™ Processor which records Engine Condition and Trend Monitoring (ECTM) data automatically.

The recorded ECTM data can be converted with the supplied software into the P&WC ECTM software for analysis of engine-run data and any excess engine parameters.

Revision 1 of this Service Bulletin revises the procedures for the installation of the ECTM.

C. Description

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

- (1) Open the access panels.
- (2) Install the TrendCheck™ Processor.
- (3) Install the torque transducers.
- (4) Install the engine intake pressure/temperature sensor.
- (5) Install the ambient pressure sensor.
- (6) Install the Circuit Breaker and bracket.
- (7) Install the engine and the flight compartment wiring.
- (8) Install the flight compartment socket connector and switch.
- (9) Close the access panels.
- (10) Do a calibration of the ECTM.

D. Compliance

Optional.

≡PILATUS≡
PC12
SERVICE BULLETIN

FOR PLANNING PURPOSES

E. Approval

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

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.

F. Manpower

Task	Man-hours
Preparation	2.0
Installation (Para 2.B.)	2.0
Installation (Para 2.C.)	2.0
Installation (Para 2.D.)	1.0
Installation (Para 2.E.)	3.0
Installation (Para 2.F.)	2.5
Installation (Para 2.G.)	2.5
Installation (Para 2.H.)	18.0
Close-up (Para 2.I.)	3.5
Set-up (Para 2.J.)	5.5
TOTAL MAN-HOURS	42.0

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

G. Material - Cost and Availability

(1) Material

Operators should contact their authorized PILATUS SERVICE CENTER for this Service Bulletin Modification Kit, the software and the downloading cable, or contact the following for further information:

PILATUS AIRCRAFT LTD. ,
CUSTOMER LIAISON MANAGER,
CH-6371 STANS,
SWITZERLAND.

Tel: + 41 41 6196 319
Fax:+ 41 41 6103 351

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

(2) Cost and Availability

≡PILATUS≡
PCI2
SERVICE BULLETIN

FOR PLANNING PURPOSES

H. Tooling

The hardware that follows is the minimum required to operate the Ground station software:

- 486 - 66 MHz PC (Pentium recommended)
- 16 MB RAM
- 35 MB free disk space
- VGA monitor
- Available RS232 serial port
- Printer capable of printing graphics
- Mouse

The calibration equipment that follows is required:

- Barfield or Micromite tester (for thermocouple calibration)
- Deadweight tester (for torque sensor calibration)

I. Weight and Balance

Weight 1,5 kg., Arm 2,6 m..

J. References

Aircraft Maintenance Manual (AMM), Chapters 25-10-01, 25-10-03 and 34-14-11.

Altair Installation Manual for Pratt and Whitney engines.

Standard Aero TrendCheck™ Getting Started User's Manual.

K. Publications Affected

Aircraft Maintenance Manual.

Aircraft Flight Manual Supplement No. 12.

Illustrated Parts Catalog (IPC).