

Service Bulletin No: 24-038

Ref No: 347

Modification No: EC-15-0306, EC-16-0487

ATA Chapter: 24

**ELECTRICAL POWER - DC GENERATION
INTRODUCTION OF NI-CAD BATTERIES WITH IN-FLIGHT HEATING****1. Planning Information****A. Effectivity**

PC-12/47E aircraft with optional dual Ni-Cad batteries installed.

This modification is available as an option for aircraft MSN 1576 and up and embodied at production.

B. Concurrent Requirements

None.

C. Reason**(1) Problem**

The battery life may be reduced for operations in extended cold weather conditions.

(2) Cause

The existing Ni-Cad batteries are not heated in-flight.

(3) Solution

Install Ni-Cad batteries with heaters that operate in-flight.

D. Description

This Service Bulletin gives the data and instructions necessary to install Ni-Cad batteries that have in-flight heaters.

Revision 1 to this Service Bulletin updates the wire descriptions in the modification kit and the procedure. No rework is required for operators that have accomplished this Service Bulletin at any previous revision.

E. Compliance

Optional.

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 designated Airworthiness Authority for any changes, local regulations or sanctions that may affect the embodiment of this Service Bulletin.

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H. Manpower

| Task | Man-hours |
|------------------------|------------------|
| Preparation | 5.0 |
| Modification | 35.0 |
| Close up | 15.0 |
| TOTAL MAN-HOURS | 55.0 |

I. Weight and Balance

- (1) Weight Change
 - + 3,42 kg (+ 7.54 lbs)
- (2) Moment Change
 - + 36 kgm

J. Electrical Load Data

From GENERATOR 1 BUS: Average 5.4 Amps

From GENERATOR 2 BUS: Average 5.4 Amps.

K. Software

None.

L. References

Aircraft Maintenance Manual (AMM)

| | | |
|--------------------------|--------------------------|--------------------------|
| 12-B-06-20-00-00A-040A-A | 12-B-20-31-00-00A-070A-A | 12-B-24-00-00-00A-901A-A |
| 12-B-24-30-00-00A-903A-A | 12-B-24-30-07-00A-920B-A | 12-B-25-10-01-00A-920A-A |
| 12-B-25-21-01-00A-920A-A | 12-B-25-21-03-00A-920A-A | 12-B-25-21-04-00A-920A-A |
| 12-B-25-21-07-00A-920A-A | 12-B-25-22-01-00A-920A-A | 12-B-25-22-03-00A-920A-A |
| 12-B-25-22-04-00A-920A-A | 12-B-25-23-01-00A-920A-A | |

M. Publications Affected

AFM, AMM, IPD, WDM.

N. Interchangeability of Parts

Not applicable.

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

Operators that require additional information and/or Service Bulletin Material should contact their authorized Pilatus Service Center, or Pilatus Customer Support on www.pilatus-aircraft.com → contact us

NOTE: Part Numbers given in this Service Bulletin are correct at the time of approval. Pilatus Aircraft Ltd. reserves the right to change the part numbers as necessary. Part numbers of items delivered with the kit are correct when the kit is dispatched. This could lead to differences between those part numbers quoted in this Service Bulletin and the kit if parts are superseded. Operators are requested to check the IPD for delivered parts which differ from those listed in the Service Bulletin Materials Kit List.

(1) Modification Kit**B. Warranty**

Not applicable.

C. Material to Order from Pilatus