

**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.

E. Compliance

Optional.

F. Approval

The technical content of this document is approved under the authority of DOA No. EASA. 21J. 357.

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H. Manpower

| Task | Man-hours |
|------------------------|------------------|
| Preparation | 5 |
| Modification | 35 |
| Close up | 15 |
| TOTAL MAN-HOURS | 55 |

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, IPC, WDM.

N. Interchangeability of Parts

Not applicable.

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

If you want more information about this modification, contact your approved Service Center or:

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