

Service Bulletin No: 31-012

Ref No: 269

Modification No: EC-09-0682, EC-13-0647

ATA Chapter: 31

**INDICATING AND RECORDING SYSTEMS - RECORDERS
INTRODUCTION OF A LIGHTWEIGHT DATA RECORDER (LDR)****1. Planning Information****A. Effectivity**

Part A for PC-12/47E MSN 1001 thru 1270.

Part B for PC-12/47E MSN 1001 thru 1470 with installed LDR. This modification is included at production on MSN 1471 and up.

B. Concurrent Requirements

Honeywell PRIMUS APEX Operational Software Build 7 or higher.

C. Reason

(1) Problem:

Customer request for a Lightweight Data Recorder (LDR).

(2) Cause:

Customer request.

(3) Solution:

Install a LDR.

D. Description

This Service Bulletin gives the data and instructions necessary to install a LDR.

Revision No. 1 of this Service Bulletin adds changes found during the accomplishment of trial installations at Pilatus.

Revision 2 of this Service Bulletin refers the LDR test and configuration to the AMM. The AMM procedure has been updated to improve audio recording. Customers who have already incorporated this Service Bulletin at a previous issue are recommended to update the audio settings as detailed in the AMM.

Revision 3 of this Service Bulletin adds a wiring modification to further improve the quality of audio recordings. This Service Bulletin is divided into Part A and Part B. Part A is to install the LDR and do the wiring modification. Part B is to do the wiring modification when a LDR is already installed. The AMM test procedure is updated to include the relevant changes. All customers that have a LDR installed by a previous issue of this SB or as a factory option, are recommended to embody Part B of this Service Bulletin.

Revision 4 of this Service Bulletin updates the nomenclature of the data recorder to a Lightweight Data Recorder (LDR).

E. Compliance

Optional.

NOTE: The Service Bulletin Authorization Form on page 5 must be signed and returned to Pilatus before you accomplish this Service Bulletin.

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	Part A Man-hours	Part B Man-hours
Preparation	6.00	0.5
Modification	62.00	1.0
Close-Up	15.00	0.5
TOTAL MAN-HOURS	83.00	2.0

NOTE: Man-hours figures do not include the time required to cure sealants, paints and adhesives.

I. Weight and Balance

Part A

(1) Weight Change

+ 3,691 Kg (+ 8.14 lb)

(2) Moment Change

+ 308,91 Nm (+ 227.81 lbf ft)

Part B

Not changed.

J. Electrical load Data

Part A

Electrical load Change

+179mA Continuous (STANDBY BUS).

Part B

Not changed.

K. Software

Not changed.

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-24-30-07-00A-920A-A	12-B-24-30-07-00A-920B-A	12-B-25-21-04-00A-920A-A
12-B-25-23-01-00A-920A-A	12-B-25-10-01-00A-920A-A	12-B-25-10-03-00A-920A-A
12-B-31-41-00-00A-920A-A	12-B-31-42-00-00A-920A-A	12-B-23-50-01-00A-920A-A
12-B-20-40-10-00A-901A-A	12-B-23-11-00-00A-903A-A	12-B-46-30-01-00A-920A-A
12-B-46-30-03-00A-920A-A	12-B-31-30-01-00A-903A-A	

Illustrated Parts Catalog (IPC): 25-10-00, 31-12-10

Structural Repair Manual (SRM)

12-B-51-40-01-00A-041A-A	12-B-53-00-00-00A-661A-A
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M. Publications Affected

IPC, AMM, AFM, WDM.

N. Interchangeability of Parts

Not applicable.