

Service Bulletin No: 33-003

Ref No: 218

Modification No: EC-16-0251

ATA Chapter: 33

**LIGHTS - EXTERIOR LIGHTS
INTRODUCTION OF LED RED BEACON-LIGHTS****1. Planning Information****A. Effectivity**

PC-6 aircraft MSNs 337 thru 1021 equipped with rotating incandescent beacon-lights.

Aircraft MSN 1022 and subsequent will have LED beacon-lights installed in production (if requested as a customer option).

Fairchild built PC-6 aircraft MSNs 2001 thru 2092 equipped with rotating incandescent beacon-lights.

B. Concurrent Requirements

None.

C. Reason**(1) Problem**

The existing rotating beacon lights have incandescent filaments and are rotated by an electric motor. The filaments and motor do not have a long life span and require frequent replacement.

(2) Solution

Replace the two rotating beacon lights with a type that use Light Emitting Diodes (LED) lights that pulse and therefore do not need to rotate. The LED lights have a longer life span, are more reliable, and have improved illumination.

D. Description

This Service Bulletin gives the data and instructions to:

- Remove the two rotating beacon lights
- Modify the structure and electrical wiring
- Install the two new LED beacon lights
- On some aircraft variants, modify the LH circuit breaker panel.

E. Compliance

Optional.

F. Approval

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

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H. Manpower

	Total
Preparation	1.0
Removal	1.0
Structural Modification	6.0
Electrical Modification	5.0
Installation	1.0
Test	0.5
Close up	1.0
TOTAL MAN-HOURS	15.5

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

I. Weight and Balance**(1) Weight Change**

Upper Beacon: -0,184 kg

Lower Beacon: -0,262 kg

(2) Moment Change

Upper Beacon: -0,713 kgm

Lower Beacon: -1,381 kgm

J. Electrical Load Data

BATTERY BUS: -5,6 A

or

GENERATOR BUS: -5,6 A

K. Software

Not changed.

L. References

PC-6 aircraft except B2-H2/B2-H4:

- Airworthiness Limitations (AL) Doc. 02334: Appendix E.

PC-6 aircraft B2-H2/B2-H4:

- Aircraft Maintenance Manual (AMM Doc. 01975): 20-31-00, 24-00-00, 33-40-00, 33-47-11, 33-47-12.

M. Publications Affected

AMM (Doc. 01975): 33-47-11, 33-47-12.

Illustrated Parts Catalog (IPC): 33-47-09.

N. Interchangeability of Parts

Pre and Post-Service Bulletin 33-003 items are not interchangeable.

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

Operators who require further information and/or Service Bulletin material should contact their Authorized Pilatus Service Center, or..

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