

Service Bulletin No: 33-014

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Modification No: EC-14-0507 / EC-15-0809

ATA Chapter: 33

LIGHTS - EXTERNAL LIGHTS - REPLACE INCANDESCENT RED BEACON LIGHTS WITH LED LIGHTS**1. Planning Information****A. Effectivity**

Aircraft MSN 101 thru 544, 546 thru 888 with the red beacon lights installed.

Aircraft Post Service Bulletin 33-002.

Aircraft MSN 1001 thru 1299 and 1301 thru 1450.

Aircraft MSN 1451 and up, the LED red beacon lights are installed during production.

B. Concurrent Requirements

None.

C. Reason**(1) Problem**

The existing red beacon lights are illuminated by incandescent filaments. The filaments do not have a long life span and require frequent replacement.

(2) Cause

Reliability of incandescent lights causes more frequent replacement than LED lights.

(3) Solution

Replace the red beacon lights with a type which uses Light Emitting Diodes (LED) as the light source. The LED lights have a longer life span, better reliability and illumination.

D. Description

This Service Bulletin gives the data and instructions to replace the incandescent red beacon lights with LED lights.

Revision 1 to this Service Bulletin clarifies steps in the procedure. Aircraft which have already had this Service Bulletin embodied do not need further rework.

E. Compliance

Optional.

F. Approval

The technical content of this Service Bulletin 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

Description	Man hours
Preparation	1.5
Modification	6.0
Test	0.5
Close up	0.5
TOTAL MAN-HOURS	8.5

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

Upper beacon: -0,18 kg (-0.4 lb)

Lower beacon: -0,18 kg (-0.4 lb)

(2) Moment Change

Upper beacon: -2,553 mkg (-5.673 lb-in.)

Lower beacon: -0,995 mkg (-2.211 lb-in.)

J. Electrical Load Change Data

- (1) Aircraft MSN 101 thru 544, 546 thru 888 and aircraft Post SB 33-002

BATTERY BUS: -5.6 A
GENERATOR 1 BUS: +0.6 A

- (2) Aircraft MSN 1001 thru 1299 and 1301 thru 1450

GENERATOR 1 BUS: -5.0 A

K. Software

Not changed.

L. References

Aircraft Maintenance Manual (AMM)

- (1) **Aircraft MSN 101 thru 544, 546 thru 888 and aircraft Post SB 33-002**

12-A-20-31-00-00A-071A-A	12-A-20-50-00-00A-901A-A
12-A-24-00-00-00A-901A-A	12-A-25-10-01-00A-920A-A
12-A-33-40-00-00A-903A-A	12-A-33-40-00-00A-903B-A
12-A-33-46-01-00A-920A-A	

- (2) **Aircraft MSN 1001 thru 1299, 1301 thru 1450**

12-B-20-31-00-00A-071A-A	12-B-20-50-00-00A-901A-A
12-B-24-00-00-00A-901A-A	12-B-25-10-01-00A-920A-A
12-B-33-40-00-00A-903A-A	12-B-33-46-00-00A-920A-A

M. Publications Affected

Aircraft Maintenance Manual.

Illustrated Parts Catalog.

Wiring Diagram Manual.

N. Interchangeability of Parts

The filament lights and LED lights are not interchangeable.

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

Operators should send orders for Service Bulletin Modification Kits, to their Authorized Pilatus Service Center.

PILATUS AIRCRAFT LTD
CUSTOMER SUPPORT MANAGER
CH-6371 STANS
SWITZERLAND

General Aviation
Tel: +41 41 619 3333
Fax: +41 41 619 7311
eMail: SupportPC12@pilatus-aircraft.com

PILATUS BUSINESS AIRCRAFT LTD
PRODUCT SUPPORT DEPARTMENT
11755 AIRPORT WAY
BROOMFIELD, CO 80021
UNITED STATES OF AMERICA

Tel: +1 303 465 9099
Fax: +1 303 465 6040
eMail: SupportPC12@PilBal.com

PILATUS AUSTRALIA PTY LTD
17 JAMES SCHOFIELD DRIVE
ADELAIDE AIRPORT SA 5950
AUSTRALIA

Tel: +61 8 8238 1600
Fax: +61 8 8234 4499
Free Call: +61 1800 PILATUS (745 2887)
eMail: SupportPC12@pilatus.com.au