

# SERVICE BULLETIN

SERVICE BULLETIN NO: 33-005

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## LIGHTING - EXTERIOR INTRODUCTION OF NEW WING-TIP ANTI-COLLISION LIGHTS AND POWER SUPPLY UNITS (PSU)

### 1. Planning Information

#### A. Effectivity

- (1) All PC-12 and PC-12/45 aircraft from MSN 101 up to and including MSN 320.

#### B. Concurrent Requirements

None

#### C. Reason

##### (1) Problem

- (a) The installed strobe lights become unserviceable at an unusually high rate because the light intensity decreases quickly below the minimum limits necessary to obey FAR 23.1401.
- (b) If it is necessary to replace the strobe light, the wing tip must be removed to get access. This causes a long maintenance procedure, specially with the Right wing tip as the weather radar transceiver must first be removed.

##### (2) Cause

- (a) The installed strobe light out-gasses and causes the glass cover on the strobe light to become not transparent.
- (b) With the installed system, there is no electrical cable connector to the strobe light. Thus the wing tip must be removed to disconnect the electrical cable connector at the PSU.

##### (3) Solution

Install a new strobe light, electrical cable and a PSU to the Left and Right wing tip.

- (a) The new and better design of the strobe system has a longer life of 2000 flying hours and a check of the light intensity is not necessary.
- (b) The new electrical cable has a connector at each end. Because of this the strobe light can be replaced without removal of the wing tip.

**D. Description**

This Service Bulletin (SB) gives the necessary data and instructions to:

- Remove the PSU and the strobe light complete with electrical cable.
- Install the new PSU, strobe light and cable.
- Modify the aircraft electrical wiring.

**E. Compliance**

Optional.

**F. Approval**

The technical aspects of this Service Bulletin have been approved by the Federal Office for Civil Aviation (FOCA) of Switzerland.

**NOTE:** PILATUS advises Operators/Owners to check with their local Airworthiness Authorities for any changes, local regulations or sanctions that may affect the embodiment of this Service Bulletin.

**G. Manpower**

|  | Total     |
|--|-----------|
| Preparation  | 3         |
| Modification of the Electrical Wiring                | 1         |
| Installation of the Anti-Collision System Components | 2         |
| Close up   | 6         |
| <b>TOTAL MAN-HOURS</b>                               | <b>12</b> |

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

**H. Weight and Balance**

**(1) Weight Change**

Not affected.

**(2) Moment Change**

Not affected.

**I. Electrical Load Data**

Not changed.

**J. Software**

Not changed.

**K. References**

Aircraft Maintenance Manual (AMM), Chapter 24-00-00, 33-40-00, 33-43-02, 33-43-03 and 57-20-01.

**L. Publications Affected**

Illustrated Parts Catalog (IPC), Chapter 33-40-00.

AMM, Chapter 33-43-02 and 33-43-03.

**M. Interchangeability of Parts**

Pre and Post SB Strobe Lights and PSU 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, or to:

PILATUS AIRCRAFT LTD.,  
CUSTOMER LIAISON MANAGER,  
CH 6371 STANS,  
SWITZERLAND.

or PILATUS BUSINESS AIRCRAFT LTD.,  
PRODUCT SUPPORT DEPARTMENT,  
11755 AIRPORT WAY,  
BROOMFIELD, CO 80021.  
USA

Tel : + 41 41 619 6319 (General aviation)

Tel : + 41 41 619 6509 (Government)

Fax: + 41 41 619 6224

Tel : 303 465 9099

Fax: 303 465 6040

**NOTE:** Operators are requested to advise Pilatus Aircraft Ltd, using the Service Bulletin Evaluation Sheet, of the Manufacturer's Serial Number (MSN) and the flying hours of aircraft which are allocated for this Service Bulletin.