

**FOR PLANNING PURPOSES**

# SERVICE BULLETIN

SERVICE BULLETIN NO: 24-003

REF NO: 007

MODIFICATION NO: 960211 and 941507

ATA CHAPTER: 24

**SUBJECT: REWIRING OF THE AUTOMATIC DISCONNECT CIRCUIT FOR THE NON-ESSENTIAL BUS AND CHECK OF THE NAVIGATION CONVERTER (KN 40) FOR CORRECT WIRING.**

## 1. Planning Information

### A. Effectivity

- (1) All aircraft from MSN 101 up to and including MSN 140.
- (2) Aircraft MSN 141 and subsequent will have this Service Bulletin incorporated prior to delivery.

### B. Reason

- (1) When the N ESNTL switch is set to AUTO, the NON ESSENTIAL BUS must automatically disconnect from the DC power distribution system when the BAT/GEN 1 bus tie circuit breaker (CB210) opens. These wiring changes eliminate alternative grounding circuits for the N ESNTL BUS relay (K331) which could cause the NON ESSENTIAL BUS to remain connected.
- (2) During production of a PC-12, an instance was discovered where the power lines of the Navigation Converter (KN 40) were incorrectly wired. In the instance of a power loss on Avionic Bus 1 and Avionic Bus 2 - loss of remaining VOR/LOC information would be experienced.
- (3) Revision 1 corrects cable connections for the Navigation Converter.

### C. Description

Accomplishment of this Service Bulletin consists of completing the following tasks:

- (1) N ESNTL Switch:
  - (a) Remove the flight compartment side panel to get to the left relay panel.
  - (b) Remove and discard two wires (Ref. Fig. 1)
  - (c) Re-route one wire (Ref. Fig. 2).
  - (d) Check the NON ESSENTIAL BUS disconnects automatically.
  - (e) Install the flight compartment side panel.
- (2) To correct possible incorrect wiring of the Navigation Converter (KN 40):
  - (a) Locate Navigation Converter A806 (Ref. Fig. 3).
  - (b) Locate connector P805.
  - (c) Open P806 back cover.
  - (d) Make sure that cables are connected in accordance to PIL. Dwg. 534.59.12.016B (Ref. Fig. 4).
  - (e) Should this not be the case - remove and replace according to PIL. Dwg. 534.59.12.016B (Ref. Fig. 4).

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**D. Compliance**

**Mandatory.**

This Service Bulletin **must** be incorporated before 31 December 1996.

**E. Approval**

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

**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.

**F. Manpower**

<b>Task</b>	<b>Man-hours</b>
Preparation	0.5
Rewire	0.5
Check	1.00
Test	0.5
Close-Up	0.25
<b>TOTAL MAN-HOURS</b>	<b>2.75</b>

**G. Material - Cost and Availability**

**(1) Material**

None.

**NOTE:** Operators are requested to advise Pilatus Aircraft Ltd. of the Manufacturers Serial Number (MSN) and the flying hours of aircraft which are allocated for this Service Bulletin.

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**(2) Cost and Availability**

**NOTE:** Credit for up to 2.75 man-hours of labor, for compliance with this Service Bulletin, is available through the PILATUS PC-12 New Aircraft Warranty System.

**NOTE:** Contact your Authorized PILATUS PC-12 Service Center.

**H. Tooling**

Wire Insertion/Extraction Tool (Red/White) - M15570-20.

**I. Weight and Balance**

None

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**J. References**

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Wiring Manual, Chapter 24-30-31, 34-51-20

AMM, Chapter 24-00-00, 25-24-02, 34-51-00, 34-51-02 and 71-00-00

**K. Publications Affected**

Wiring Manual, Chapter 24-30-31.