

SERVICE BULLETIN

SERVICE BULLETIN NO: 24-012

REF NO: 087

MODIFICATION NO: 99 0045

ATA CHAPTER: 24

ELECTRICAL POWER - GENERAL MODIFICATION OF THE GEN2 EXCITATION

1. Planning Information

A. Effectivity

All PC-12 and PC-12/45 aircraft up to and including MSN 260.

This Service Bulletin will be incorporated prior to delivery on aircraft MSN 261 and subsequent.

B. Concurrent Requirements

None

C. Reason

(1) Problem

It can occur that Generator 2 does not come on-line during a normal start-up procedure.

(2) Cause

The Generator 2 control unit (VR231) does not prevent electrical feedback from the Generator 2 field excitation on engine shut-down. If the Generator 2 is not switched off prior to engine shut-down, voltage spikes may be created at the relay K234. Overheat damage to electrical components of the generator control circuit could result.

(3) Solution

To prevent electrical system damage remove the diodes CR 201 and 202 and install a new 5 Amp circuit breaker (CB235) at the BUS TIE remote controlled circuit breaker (CB210) and a new suppression filter (A250).

D. Description

This Service Bulletin shows where the diodes, to be removed, are located; how and where to install the new 5 Amp circuit breaker (CB235) and the new suppression filter (A250).

E. Compliance

Mandatory.

Modification required within the next 10 flights after the effective date of this Service Bulletin; unless already accomplished:

For aircraft (MSN 231 and subsequent) with Bosch Generator 2 (P/N. 524.32.12.158) installed or SB 24-010 - Replacement of Generator 2 - incorporated.

SERVICE BULLETIN

Modification required within the next 100 hours time-in-service (TIS) after the effective date of this Service Bulletin; unless already accomplished:

For aircraft (MSN 101 up to and including MSN 230) with Electro Systems Generator 2 (P/N. 978.87.24.121) installed and the SB 24-009 - Installation of a Cut-Out Relay - incorporated.

F. 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.

G. Manpower

	Total
Preparation	1.0
Installation	2.0
Test	0.5
Close up	1.0
TOTAL MAN-HOURS	4.5

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) Chapters 24-00-00, 24-30-07 and 25-24-02.

Wiring Diagram Manual (WDM) Chapter 24-30-10 and 24-30-30.

Service Bulletin 24-009 - Electrical Power - DC Generation - Installation of a Cut-off Relay.

Service Bulletin 24-010 - Electrical Power - DC Generation - Replacement of the Generator 2.