

SERVICE BULLETIN

SERVICE BULLETIN NO: 24-022

REF NO: 172

MODIFICATION NO: 02-0379

ATA CHAPTER: 24

**ELECTRICAL POWER - DC POWER
REPLACEMENT OF THE GENERATOR CONTROL UNIT FOR AIRCRAFT WITH THE SECOND BATTERY
OPTION**

1. Planning Information

A. Effectivity

All PC-12 and PC-12/45 aircraft from MSN 101 thru MSN 507 with the second (2nd) battery option installed.

This Service Bulletin is not applicable to aircraft with Generator Control Unit, Part No. 988.21.15.103 installed.

B. Concurrent Requirements

These Service Bulletins must be accomplished before or at the same time as this Service Bulletin:

- Service Bulletin 24-010 - When an Electrosystems generator, Part No. 978.87.24.121 is installed (MSN 101 thru MSN 230).
- Service Bulletin 24-019 - When an Electrodelta voltage regulator, Part No. 988.21.15.101 is installed (MSN 101 thru MSN 320 and MSN 322 thru MSN 400).

Revision 1 to Service Bulletin 24-019 changes the Part No. of the GCU to 988.21.15.103. Service Bulletin 24-022 is not applicable to aircraft Post Service Bulletin 24-019 Revision 1.

C. Reason

(1) Problem

If there is no power output from the number 2 generator there will not be an indication on the CAWS or Overhead Panel until the 2nd battery is discharged.

(2) Cause

The GCU lets the 2nd battery energize the number 2 generator relay until the power output from the battery is not sufficient to hold the relay closed.

(3) Solution

Replace the GCU Part No. 988.21.15.102 with GCU Part No. 988.21.15.103.

D. Description

This Service Bulletin gives the instructions to replace the GCU.

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E. Compliance

Mandatory.

Required at the next 100 hour Inspection or Annual Inspection, whichever comes first

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.

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
Replacement of the GCU	1.0
Test	1.5
Close up	0.5
TOTAL MAN-HOURS	2.0

H. Weight and Balance

(1) Weight Change

No effect.

(2) Moment Change

No effect.

I. Electrical Load Data

Not changed.

J. Software

Not changed.

K. References

Aircraft Maintenance Manual (AMM), 24-30-06.

L. Publications Affected

Illustrated Parts Catalog (IPC), 24-50-00.

M. Interchangeability of Parts

Pre and Post Service Bulletin 24-022 GCU are not interchangeable.

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2. Material Information

A. Material - Price and Availability

Operators should send orders for a GCU, to their Authorized PILATUS Service Center, or to:

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

General Aviation:
Tel : + 41 41 619 6319
Fax: + 41 41 619 6224
eMail: asommer@pilatus-aircraft.com

Government:
Tel : + 41 41 619 6509
Fax. + 41 41 619 6224
eMail: rpaterson@pilatus-aircraft.com

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

Tel : 303 465 9099
Fax: 303 465 6040
eMail: Productsupport@PilBal.com

PILATUS AUSTRALIA (Pty.) LTD.,
PO BOX 732
MARLESTON SA 5033
AUSTRALIA

Tel : (08) 8234 4433
Fax: (08) 8234 4499
Free Call: 1800 445 007
eMail: info@pilatus.com.au

B. Material Necessary for Each Aircraft

(1) Additional Material to be Procured

New Part No.	Description	Old Part No.	Qty	Disp. Code	Fig	Item
988.21.15.103	Generator Control Unit	988.21.15.102	A/R	R	N/A	N/A

Disposition Codes: D - Discard / R - Return to Pilatus

C. Warranty Statement

Credit will be issued for all affected aircraft, on approval of a warranty claim, provided the:

- Work is accomplished by an authorized Service Center within 12 months from the effective date of this Service Bulletin
- Removed unit is in a serviceable condition and is sent to and received by PILATUS.

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3. Accomplishment Instructions - Aircraft

A. Removal of the GCU

(1) Remove the GCU Part No. 988.21.15.102 (Ref. AMM, 24-30-06, Page Block 401).

B. Installation of the GCU

(1) Install the GCU Part No. 988.21.15.103 (Ref. AMM, 24-30-06, Page Block 401).

C. Documentation

(1) Make an entry in the Aircraft Logbook to show this Service Bulletin has been incorporated.