

SERVICE BULLETIN

SERVICE BULLETIN NO: 24-019

REF NO: 156

MODIFICATION NO: 000298

ATA CHAPTER: 24

ELECTRICAL POWER - DC GENERATION SYSTEM SECOND GENERATOR CONTROL UNIT - REPLACEMENT

1. Planning Information

A. Effectivity

All PC-12 and PC-12/45 aircraft from MSN 101 thru MSN 400 which have a Bosch Second Generator (Gen 2) (P/N 524.32.12.158) with an Electrodelta voltage regulator (P/N 988.21.15.101).

B. Concurrent Requirements

The following must be incorporated before or at the same time as this Service Bulletin:

- Service Bulletin 24-010 (Second Generator - Replacement)
- Service Bulletin 24-016 (Second Generator Brush Holder - Replacement)

C. Reason

(1) Problem

None. PILATUS recommends (as an option) the installation of a new Generator 2 control unit (GCU) for the reasons given below.

(2) Cause

The quantity of components in the Generator 2 voltage-regulator system causes unnecessary maintenance.

(3) Solution

Replace the Second Generator voltage-regulator system with a generator control unit (GCU). Although the voltage regulator (P/N 988.21.15.101) and related components function satisfactorily, the new GCU causes smoother generator output. It also gives increased protection from the effects of minor changes in the voltage output.

D. Description

This Service Bulletin gives the instructions and data necessary to:

- Remove the voltage regulator and related components as necessary
- Install the GCU
- Modify the related electrical cables and components as necessary

Revision 1 to this Service Bulletin changes the Part No. of the replacement GCU. GCU Part No. 988.21.15.102 is superseded by GCU Part No. 988.21.15.103.

E. Compliance

Optional.

F. Approval

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

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

G. Manpower

	Total
Preparation	2.0
Changes	8.0
Close up	3.0
TOTAL MAN-HOURS	13.0

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), 06-20-00, 20-20-01, 24-00-00, 24-30-06, 25-10-03, 25-21-05 and 71-00-00.

Structural Repair Manual (SRM), 51-40-01.

Service Bulletin, 24-015.

L. Publications Affected

AMM, 24-30-00.

Illustrated Parts Catalog, 24-50-00.

M. Interchangeability of Parts

Pre-Service Bulletin 24-019 voltage regulators and Post Service Bulletin 24-019 GCUs are not interchangeable as single units.

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

General Aviation:
Tel : + 41 41 619 6319
Fax: + 41 41 619 6224
eMail: pilga@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

NOTE: Operators are requested to advise Pilatus Aircraft Ltd, of the Manufacturer's Serial Number (MSN) and the flying hours of aircraft which are affected by this Service Bulletin.