

Service Bulletin No: 24-033

Ref No: 291

Modification No: EC-11-0152, EC-12-0106

ATA Chapter: 24

**ELECTRICAL POWER - DISTRIBUTION
PC-12 GENERATOR COMMON SPARES****1. Planning Information****A. Effectivity**

PC-12, PC-12/45 and PC-12/47 Aircraft MSN 0101 thru 0888.

B. Concurrent Requirements

None.

C. Reason

(1) Problem:

There is a shortage of the PC-12, PC-12/45 and PC-12/47 starter/generators P/N 978.91.23.435 and 978.91.23.436 (with standard brushes) and P/N 978.91.23.408 and 978.91.43.409 (with diamond brushes).

(2) Solution:

Remove the starter/generator (P/N 978.91.23.435/408 or 978.91.23.436/409) and Quick Attach/Detach (QAD) mounting kit (P/N 978.91.23.402). Install the PC-12/47E 300A starter/generator (P/N 978.91.23.437 or 978.91.23.407, the QAD mounting kit (P/N 978.91.23.940) and the universal air inlet (P/N 978.91.23.445).

D. Description

This Service Bulletin gives the data and instructions necessary to:

- (1) Introduce a common generator core (P/N 978.91.23.437 or 978.91.23.407) for all PC-12 aircraft with P/N 978.91.23.435/408 and 978.91.23.436/409 300A generators installed.
- (2) Introduce a new air inlet (P/N 978.91.23.445) for use with the post Service Bulletin starter/generator (P/N 978.91.23.437 or 978.91.23.407).
- (3) Introduce a replacement QAD mounting kit (P/N 978.91.23.940) for post Service Bulletin starter/generator (P/N P/N 978.91.23.437 or 978.91.23.407) if the pre Service Bulletin starter/generator (P/N 978.91.23.435/408) was installed.

Revision 1 to this Service Bulletin adds starter/generators P/N 978.91.23.407, 978.91.23.408 and 978.91.23.409. These supersede P/N 978.91.23.437, 978.91.23.435 and 978.91.23.436 respectively. The new starter/generators have diamond brushes for improved wear characteristics. Aircraft that have already had this Service Bulletin accomplished need no further work.

This revision no longer allows re-use of the air inlet of the pre Service Bulletin starter/generator on the post Service Bulletin starter/generator. The air inlet must be returned with the pre Service Bulletin starter/generator.

This revision also clarifies that only the pre Service Bulletin QAD (P/N 978.91.23.402) of the pre Service Bulletin starter/generator (P/N 978.91.23.435/408) needs to be replaced with the post Service Bulletin QAD (P/N 978.91.23.940). The pre Service Bulletin QAD (P/N 978.91.23.940) of the pre Service Bulletin starter/generator (P/N 978.91.23.436/409) does not need to be replaced because it is already the correct part.

E. Compliance

Optional.

F. Approval

The technical content of this document is approved under the authority of DOA No. EASA. 21J. 357.

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

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H. Manpower:

Task	Man-hours
Preparation	0.5
Modification	1.5
Close up	1.0
TOTAL MAN-HOURS	3.0

I. Weight and Balance:**(1) Weight Change**

None

(2) Moment Change

None

J. Electrical load Data:

None.

K. Software:

None.

L. References:

Aircraft Maintenance Manual (AMM)

12-A-20-31-00-00A-070A-A 12-A-24-30-01-00A-920A-A

M. Publications Affected:

IPC.

N. Interchangeability of Parts:

The post Service Bulletin 24-033 configuration, starter/generator P/N 978.91.23.437/407 with QAD kit P/N 978.91.23.940 may be interchanged with any of the pre Service Bulletin 24-033 configurations:

- starter/generator P/N 978.91.23.435/408 with QAD kit P/N 978.91.23.402
- starter/generator P/N 978.91.23.436/409 with QAD kit P/N 978.91.23.940.

2. Material Information**A. Material - Price and Availability**

Pilatus advise that the standard lead times for parts may be up to 14 months.

If you want more information about this modification, contact your approved Service Center or:

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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.

B. Material Necessary:

NOTE: Part Numbers given in this Service Bulletin are correct at the time of approval. Pilatus Aircraft Ltd. reserves the right to change the part numbers as necessary. Part numbers of items delivered with the Modification Kit are correct when the kit is dispatched. This could lead to differences between those part numbers quoted in this Service Bulletin and the Modification Kit if parts are superseded. Operators are requested to check the IPC for delivered parts which differ from those listed in the Service Bulletin Materials Kit List.