

Airworthiness Directive

AD No.: 2023-0077

Issued: 11 April 2023

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I Part M.A.301, or Annex Vb Part ML.A.301, as applicable, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I Part M.A.303, or Annex Vb Part ML.A.303, as applicable] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

PIPISTREL VERTICAL SOLUTIONS d.o.o.

Type/Model designation(s):

Virus SW 121 aeroplanes

Effective Date: 25 April 2023

TCDS Number(s): EASA.A.573

Foreign AD: Not applicable

Supersedure: None

ATA 24 – Electrical Power – Voltage Regulator Wiring – Replacement

Manufacturer(s):

Pipistrel d.o.o.

Applicability:

Virus SW 121, SW 121A and SW 121C aeroplanes, all serial numbers (s/n).

Definitions:

For the purpose of this AD, the following definitions apply:

The SB: Pipistrel Vertical Solutions d.o.o. (PVS) Service Bulletin (SB) SB-121-00-80-025 Revision A01.

Affected part: Voltage regulator wire Part Number (P/N) 243004A20 or P/N 24301820, as applicable.

Serviceable part: Voltage regulator wire P/N 1212430002.

Groups: Group 1 aeroplanes are those that have an affected part installed. Aeroplanes having an s/n as listed in the SB have been initially delivered with an affected part installed.

Group 2 aeroplanes are those that do not have an affected part installed. An aeroplane not having an s/n listed in the SB, or on which SB original issue was embodied, is Group 2 aeroplane, provided no affected part has been installed in service on that aeroplane.



Reason:

Occurrences were reported of fluctuation of the voltage regulator output voltage.

This condition, if not corrected, could lead to malfunction of the electrical power system, possibly resulting in reduced control of the aeroplane.

To address this potential unsafe condition, PVS issued the SB, as defined in this AD, to provide replacement instructions.

For the reason described above, this AD requires replacement of the affected part and introduces a temporary operational limitation until this replacement has been accomplishment.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

Replacement:

- (1) For Group 1 aeroplanes: Within 4 months after the effective date of this AD, replace the affected part with a serviceable part in accordance with the instructions of the SB.

Operational Limitation:

- (2) For Group 1 aeroplanes: From the effective date of this AD, it is allowed to operate the aeroplane only in visual flight rules day conditions. Amending the Aircraft Flight Manual (AFM) of the aeroplane by inserting a copy of this AD and, thereafter, operating that aeroplane accordingly, is an acceptable method to comply with this requirement for that aeroplane. After the replacement as required by paragraph (1) of this AD for an aeroplane, this limitation is no longer required and can be removed from the AFM of that aeroplane.

Part(s) Installation:

- (3) For Group 1 and Group 2 aeroplanes: From the effective date of this AD, do not install an affected part on any aeroplane.

Ref. Publications:

PVS SB SB-121-00-80-025 Revision A01 dated 04 April 2023.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.



4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the [EU aviation safety reporting system](#). This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.

5. For any question concerning the technical content of the requirements in this AD, please contact: Pipistrel Vertical Solutions d.o.o. Vipavska cesta 2, 5270 Ajdovščina, Slovenia; E-mail: maintenance@pipistrel.si.

