



Emergency Airworthiness Directive

AD No.: 2021-0278-E

Issued: 15 December 2021

Note: This Emergency 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, 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 agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

STEMME AG

Type/Model designation(s):

Stemme S10 powered sailplanes

Effective Date: 17 December 2021

TCDS Number(s): EASA.A.054

Foreign AD: Not applicable

Supersedure: None

ATA 71 – Powerplant – 12AK Clutch – Prohibition of Flights

Manufacturer(s):

Stemme AG

Applicability:

Stemme S10-VT and Stemme S12 powered sailplanes, all serial numbers (s/n).

Definitions:

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

Affected part: Freewheel clutch, having Part Number (P/N) 12AK and having a s/n starting with '12-'.

Serviceable part: Any clutch, eligible for installation, which is not an affected part.

The SB: Stemme AG Service Bulletin (SB) P062-980058 Revision 1.

Groups: Group 1 powered sailplanes are those that have an affected part installed. Group 2 powered sailplanes are those that do not have an affected part installed.



Reason:

Occurrences have been reported of unintended slipping of the freewheel clutch (P/N 12AK) during operation and, subsequently, overheating (burnishing) of the friction pads inside of the clutch.

This condition, if not corrected, could lead to total loss of thrust, possibly resulting in loss of control of the powered sailplane.

Even after a successful implementation of the recommendations for safe operation of the clutch, published in Stemme AG Service Information P064-8900057/01, it has been determined that loss of thrust could occur without signs in advance.

To address this potential unsafe condition, Stemme AG issued the SB, as defined in this AD, to provide applicable instructions.

For the reasons described above, this Emergency AD prohibits operation of certain powered sailplanes, and prohibits installation of affected parts.

This AD is considered to be an interim action and further AD action may follow.

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

Required as indicated, unless accomplished previously:

Flight Prohibition:

- (1) For Group 1 powered sailplanes: From the effective date of this AD, do not operate any powered sailplane.

Part(s) installation:

- (2) For Group 2 powered sailplanes: From the effective date of this AD, do not install on any powered sailplane an affected part.

Modification:

- (3) For Group 1 powered sailplanes: Following replacement of an affected part of a powered sailplane with a serviceable part, that powered sailplane is effectively considered to be a Group 2 powered sailplane (see Note 1 of this AD).

Note 1: Freewheel clutch P/N 11AK is not approved for installation on a Stemme S12 powered sailplane.

Ref. Publications:

Stemme AG SB P062-980058 Revision 1 dated 14 December 2021.

The use of later approved revisions of this 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. The results of the safety assessment have indicated the need for immediate publication and notification, without the full consultation process.
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: STEMME AG, Flugplatzstrasse F2 Nr. 6-7, 15344 Strausberg, GERMANY
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