



CIVIL AVIATION AUTHORITY  
CZECH REPUBLIC  
**Airworthiness Division**  
*Airport Ruzyně, 160 08 Prague 6*  
*Tel: 420 233320922, fax: 420 220562270*

## AIRWORTHINESS DIRECTIVE

**Number: CAA-AD-T-109/2002R1**  
Supersedes CAA-AD-T-109/2002  
Date of issue: March 26 2003  
**Stemme**  
S 10-VT

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### SAILPLANE – GEAR BOX – OPERATION LIMITATION

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**Applicability:**

Kind of aeronautical product: Powered Sailplane

Manufacturer: Stemme, Strausberg, Germany

Type: Stemme S 10

Models affected: Stemme S 10-VT

Serial numbers affected: all, with installed gear box S/N 43YYQ001 up to 43YYQ088 (YY=year of production, i.e. 97=1997; Q=quarter, i.e.=second quarter)

**Effective date:** Upon receipt

**Compliance:** Required as indicated in LBA AD 2002-389/2

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*Remarks: The compliance of this AD must be recorded in Sailplane Logbook, where applicable the requirements of this AD must be integrated into Aircraft Technical Documentation. Address inquiries concerning this AD to: Civil Aviation Authority, Airworthiness Division, Ruzyně Airport, 160 08 Prague 6, Czech Republic, tel: 420 233320922, fax: 420 220562270.*

**Ing. Pavel MATOUŠEK**  
**director**

**LBA AD No.: 2002-389/2**

Effective Date: April 17, 2003

**Affected:**

Kind of aeronautical product: Powered Sailplane

Manufacturer: Stemme, Strausberg, Germany

Type: Stemme S 10

Models affected: Stemme S 10-VT

Serial numbers affected: all, with installed gear box S/N 43YYQ001 up to 43YYQ088 (YY=year of production, i.e. 97=1997; Q=quarter, i.e.=second quarter)

German Type Certificate No.: 846

**Subject:**

Gear Box 11AG; possible fracture of the lower gear wheel in the gear box P/N 11AG

Replacement of the lower cog wheel by a modified cog wheel

**Reason:**

A failure of two lower gear wheels has occurred. In both cases the web of the gear wheel separated from its shaft.

**Action:**

Action 1: Until the replacement of the cog wheel (see action 2), the following actions must be done:

- the operation of the engine will be limited to maximum 100 % power (max. continuous power)
- take-off with take-off power 115 % is forbidden (alternative procedure are published in the Flight Manual)
- install a placard close to the throttle lever

Action 2: replacement of the lower cog wheel and removal of the placard. After replacement of the lower cog wheel, 115% take-off power can be used again.

The Actions must be done in accordance with the instructions given in the mentioned Service Bulletin.

**Compliance:**

Action 1: before the next flight, if not already has been done

Action 2: December 31, 2003 at latest

**Technical publication of the manufacturer:**

STEMME Service Bulletin No. A31-10-065 Amendment Index 02.a dated February 07, 2003 which becomes herewith part of this AD and may be obtained from Messrs.:

STEMME AG

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**Note:** This AD supersedes the AD-No. 2002-389 dated November 25, 2002

 **Holders of affected aircraft registered in Germany have to observe the following:**

Action has to be accomplished by the owner of the aircraft or an approved service station and to be checked and entered in the log book by a licensed inspector.

As a result of the a.m. deficiencies, the airworthiness of the aircraft is affected to such an extent that after the expiry of the a.m. dates the aircraft may be operated only after proper accomplishment of the prescribed actions. In the interest of aviation safety outweighing the interest of the receiver in a postponement of the prescribed actions, the immediate compliance with this AD is to be directed.