



**GFA AD-644**  
(ISSUE 1)

**GFA AIRWORTHINESS DIRECTIVE**

- TYPE AFFECTED:** STEMME S-10V, & STEMME S-10VT, fitted with propellers:  
Type 10AP-F, Ser. No's 40001 up to 40010. Type 10AP-V, Ser.No's 10661 and 20001 up to 20051 (except 20038 & 20043)  
Type 11AP-V, Serial No's 30001 up to 30111 (except 30027 & 30059).
- SUBJECT:** Replacement of the Blade Follower part no.10AP-VM with a modified version: part no 10AP-VP
- REASON:** Service experience has shown that breakage of the blade follower connecting screw may occur resulting in loss of the blade follower during powered flight. This will cause increased propeller vibration.  
*NOTE: If unusually high vibration is noticed during powered flight, assume that a blade follower has been lost, reduce the power setting as much as possible to minimize vibration & land at the nearest suitable airfield.*
- DOCUMENTATION:** The LBA has produced AD 2006-420R1, EASA has produced EAD 2006-0373R1-E, and Stemme has produced SB A31-10-078 which is attached & forms part of this AD. Note: Only Page 3 of this SB (the English translation) is included.
- ACTION REQUIRED:** In accordance with SB A31-10-078 carry out the following actions.  
ACTION 1: Remove the old Blade follower 10AP-VM  
ACTION 2: Replace with new type 10AP-VP  
ACTION 3: ON propeller types 11AP-V and 11AP-V carry out dynamic balancing in accordance with Stemme Document:A17-10AP-V/2-E
- WEIGHT AND BALANCE:** Negligible.
- IMPLEMENTATION:** Within the next 25 hours of engine operation. The accomplishment may be performed by returning the propeller to the factory:-  
Stemme AG, Flugplatzstrasse F2 Nr. 7, D-15344 Strausberg  
Or  
Gympie Aircraft Maintenance, 47 Glory Hill Road, Gympie. Qld. 4570,  
Tel. (07) 5483-5170 (Mr. Tony Kerr), who has been authorized by Stemme AG to perform the work in Australia on their behalf.
- COMPLIANCE:** The requirements of this GFA Airworthiness Directive are mandatory. This Directive is issued pursuant to the Rules and Regulations of the Gliding Federation of Australia Inc.

SIGNED:

  
SENIOR TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

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OF AUSTRALIA INC.

<b>STEMME</b> F & D DO: EASA.21J.250	<b>Service Bulletin</b>		Document Number: <b>A31-10-078</b>
	Stemme-Propeller for S10-V and S10-VT – blade follower 10AP-VM		Am.-Index: 01.a
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This Service Bulletin provides from page 1 to 2 the original version in German, approved by the EASA, and page 3 a translated version in English. The translation has been performed to the best of our knowledge and judgement.

## 1 Subject:

Replacement of the blade follower (cam lever) 10AP-VM by the new version 10AP-VP

## 2 Affected Powered Sailplane:

Motor glider STEMME S10, all models;

EASA Type Certificate No. EASA.A.054 / FAA-TCDS: G06CE, G58EU

affected S/N:

10AP-F:	40001 up to 40010
10AP-V:	10661, 20001 up to 20051 (not affected 20038 and 20043)
11AP-V:	30001 up to 30111 (not affected: 30059 and 30027)

## 3 Time of compliance:

- Within the next 25 engine operation hours.
- Not later than March 31. 2007.

## 4 Background Information:

Service experience showed that the connection screw of the blade follower 10AP-VM may brake and the main part of the blade follower can be lost in flight. The result will be a high vibration in powered flight.

**ATTENTION:** If the main part is lost in flight:

1. reduce the power setting, the vibration will be decreased
2. a safety landing on the next airfield must be performed.

The new blade follower (10AP-VP) is reinforced on the shaft and a Allen head screw is installed instead of a slotted screw.

## 5 Actions:

- Removal of the old blade follower 10AP-VM.
- Installation of the new version 10AP-VP
- Dynamic balancing according to the "Procedural Instruction: Dynamic Balancing of the propeller" Stemme Doc.: A17-10AP-V/2-E (included in the Maintenance Manual of the associated model). This dynamic balancing is necessary only for Propeller Stemme 10AP-V (S10-V) and Stemme 11AP-V (S10-VT).

## 6 Mass and balance:

No changes.

## 7 Associated documents/parts:

The modification kit will be provided by the authorized companies.

## 8 Accomplishment and log entry:

The actions described in this service bulletin may carry out by:

- Stemme AG, Flugplatzstrasse F2 Nr. 7, D-15344 Strausberg or
- Copper State Aero LLC, 1692 N Coral Bells Dr, Tucson 85 145 Arizona (US).

The completion of this SB must be checked and entered in the airplane's log book by a licensed inspector. The regulations on the keeping of service records must be adhered to.

(End)