



## GFA AIRWORTHINESS DIRECTIVE

- TYPE AFFECTED:** Stemme S 10-VT German Type Cert. No 846  
Serial No.11-089 up to 11-096 & all s/no's where the pressure lines were replaced using material supplied by Stemme during the period 27 July 2004 and June 22 2005.
- SUBJECT:** Deterioration of Pressure lines between the airbox and carburetors and differential fuel pressure sensor.
- BACKGROUND:** Leaking pressure lines were found to be the cause of a reported engine difficulty in the range between Maximum continuous power and Take off power. It was discovered that the material used was not up to the temperature specification.
- DOCUMENTATION:** The LBA has issued AD 2005-228 & Stemme has issued service Bulletin A31-10-073 which is attached & becomes part of this AD.
- ACTION REQUIRED:**
- ITEM 1. BEFORE FURTHER FLIGHT:**  
Inspect all pressure lines 7 mm O.D. x 4 mm I.D. for cracks or porosity, particularly in the area of Tee junctions and clamp areas. The free areas between the white plastic covers must also be checked. If any damage is found replacement of all of the pressure lines is necessary, not just the damaged ones. Use only original Rotax part no. 860 660 or pressure line HZ-KSL041 supplied by Stemme and install in accordance with Rotax 914F Maintenance Manual.
- ITEM 2. WITHIN THE NEXT 20 ENGINE HOURS, but not later than 31<sup>ST</sup> December 2005:** Replace all 7mm x 4 mm pressure lines. Use only original Rotax part no. 860 660 or pressure line HZ-KSL041 supplied by Stemme and install in accordance with Rotax 914F Maintenance Manual.

SIGNED:

  
CHIEF TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

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OF AUSTRALIA

WEIGHT AND BALANCE: Not Affected

IMPLEMENTATION: The inspection and replacement of the pressure lines may be carried out by a person holding a GFA 1109 Section 2 Maintenance Authorization for replacement of components or higher & endorsed for Rotax 914F engines.

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.



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<b>STEMME</b>  F & D  Design Org.	<b>Service Bulletin</b>		Document Number: <b>A31-10-073</b>
	<b>Pressure lines ROTAX 914 F2/S1</b>		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 Luftfahrt-Bundesamt, and from page 3 to 4 a translated version in English. The translation has been performed to the best of our knowledge and judgement.*

## 1 Subject:

*Pressure lines between airbox and carburetors and differential fuel pressure sensor*

## 2 Affected Powered Sailplane:

Type STEMME S10, model S10-VT, LBA Type Certificate No. 846, FAA-TCDS: G06CE

affected S/N: 11-089 up to 11-096 and respectively all S/N's where the pressure lines are replaced during the periode July 27, 2004 and June 22, 2005 and the material was provided by Stemme AG.

## 3 Time of compliance:

Action 1: before next flight

Action 2: within the next 20 engine hours, the next maintenance event, not later than December 31, 2005

## 4 Background Information:

*Ripped pressure lines between Airbox-Carburetor- Differential fuel pressure sensor were found during a requested maintenance event after engine trouble in the range between maximum continuous power and take off power. The cracks can be a result of non complete temperature resistance.*

*This type of pressure line was used since July 27, 2004. It was used for serial production and for spare parts.*

## 5 Actions:

Action 1: Check all installed pressure lines with dimension 4x7 mm (0.15x0.27 in.) for non existing porousness or cracks in particular areas of T-split parts, clamps or connections. The free areas between the white plastic covers must be also checked. If porosity has been found replacement of all installed pressure lines is necessary. Installation of original ROTAX-parts P/N: 860 660 or pressure line HZ-KLS041 supplied by Stemme AG according to the Maintenance Manual ROTAX 914F.

Action 2: Replacement of all installed pressure lines with dimension 4x7mm (0.15x0.27 in.) Installation of original ROTAX-parts P/N: 860 660 or pressure line HZ-KLS041 supplied by Stemme AG according to the Maintenance Manual ROTAX 914F.

## 6 Mass and balance:

*No changes.*

## 7 Associated documents:

- Maintenance Manual S10-VT

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## 8 Accomplishment and log entry:

*An authorized mechanic may carry out the actions described in this service bulletin.*

*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)*