

- Subject:** Check and, if necessary, exchange of the carburetor temperature sensor
- Concerned:** all G 115/ G 115A/ G 115B/ G 115C/ G 115C2 equipped with carburetor temperature indicator
- Urgency:** within the next 5 flight hours or following each exchange of the carburetor temperature sensor
- Procedure:** During production test flights with aircraft of the new models G 115C and G 115C2 a too slow reaction of the carburetor temperature indication was detected in single cases. This became apparent by the fact, that the indicator showed only 20 - 30% of the actual temperature change after approx. 2 - 3 minutes. Within a comprehensive fault analysis it was determined, that all parts, except the temperature sensor, operated properly. Therefore, a check and, if necessary, an exchange of the carburetor temperature sensor is mandatory.
- Actions:**
- 1. Check of the carburetor temperature sensor**

The sensor of the carburetor temperature indication is defective and has to be exchanged according to Action 3, if during an engine ground run with take-off power (Full Throttle)

 - the carburetor temperature indication is equal or higher than OAT, **when the carburetor heating is not operated**

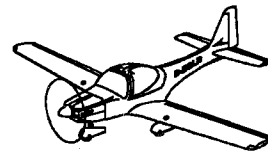
and/ or

 - the carburetor temperature indication do not increase **immediately and stabilize within maximum 5 seconds, when the carburetor heating is operated**, or after deactivation of the carburetor heating the indication do not drop below OAT **immediately** or decrease **within maximum 5 seconds** to the initial value.
 - 2. Covering of the carburetor temperature indication**

If a defective temperature sensor is found, the carburetor temperature indicator has to be covered until the sensor is replaced (Action 3), to prevent incorrect information.
 - 3. Replace of the carburetor temperature sensor**

Defective carburetor temperature sensors have to be replaced as follows (refer to sketch on page 2).

 - remove upper and lower engine cowling
 - remove clamp of the sensor cable
 - disconnect the contacts (2) and remove sensor (1) from the carburetor
 - install new sensor and connect the contacts
 - install clamp, install lower and upper engine cowling
 - remove covering of the indicator (if installed)
 - check temperature sensor according to Action 1
- Material:** Temperature sensors (Carburetor Air Temperature Probe) Type Richter B-5 (FAA STC No. SE1-201) can be ordered from GROB in exchange (the replaced sensors have to be sent back to GROB).



Weight and Balance: not affected

- Remarks:**
1. The check and the exchange of the temperature sensor can be carried out by a competent person and has to be certified in the logbook by an authorized inspector.
 2. If you have sold your aircraft in the meantime, would you kindly pass this information on to the new owner and forward his name and address and aircraft S/N to us.

Mattsies, 05 December 1994

Dipl.Ing. J. Altmann
(Airworthiness engineer
certification staff)

LBA approved:

This Service Bulletin is originally written in German and approved by the German LBA on the 22 January 1995. The translation has been accomplished to the best of our knowledge und judgement. In case of doubt, the German original is authoritative.

