



Luftfahrt-Bundesamt  
-AD-Department-

## Airworthiness Directive

*In case of any difficulty, reference should be made  
to the German original issue*

### **96-212/2 LITEF**

Effective Date: August 29, 1996

#### Affected airplanes:

German Type Certificate No.: 10.480/5TS and 10.480/7TS

#### **LITEF**

AHRS LCR-92

P/N 124210-1000, -2000 und -3000

- S/No's.: all

AHRS LCR-92S

P/N 141852-1000, -1100, -2000, -2100, -3000, -3100 und -3200

- S/No's.: all

AHRS LCR-92H

P/N 141450-1000, -1100, -2000, -2100, -3000 und -3100

- S/No's.: all

#### Subject:

Attitude and Heading Reference System (AHRS)

Temporary non-compliance with the HF Radio Frequency Susceptibility in accordance with RTCA/DO-160, Section 20, Category Y.

#### Reason:

Testing in accordance with DO160C, section 20 "RF Susceptibility (conducted)", shows that the 200 V/m requirement is not fulfilled over the entire frequency range.

Depending on the frequency of the induced electromagnetic field, exposure to a higher level than 20 V/m may result in erroneous angular rates and in misleading attitude and heading angles.

By modifying the installation as described overleaf a RF susceptibility of a least 100 V/m (category W) will be reached. Therefore, the operational limitations as recommended by LITEF in Alert Service Bulletin dated June 12, 1996 and stated in the LTA-Nr. 96-212 from LBA are no longer applicable after compliance with the LITEF Service Bulletin 141450-000-840-003.

#### Action:

1. Aircraft equipped with devices with the listed part numbers are certificated only for VFR conditions when the spurious emission in the aircraft concerned is more than 20 V/m (downgrade Category Y to Category U in accordance with Section 20 RTCA/DO-160C).
2. The P/N 124210-1000, -2000 and -3000 are not affected by the regulation under 1., if they are used in aircraft with spurious emission in accordance with Section 20 RTCA/DO-160 C, Category W (100 V/m).
3. All P/N may be modified in accordance with LITEF Service Bulletin and afterwards used without any limitation under spurious emission condition category W.
4. Modification of all models for HF Radio frequency susceptibility of 200 V/m assigning new part numbers. Modifications may be accomplished by the manufacturer.

#### Compliance:

Action 1, 2 and 3 must be performed immediately.

Action 4 may be use only after issuance of the new Technical Specifications No. 10.480/5TS Issue 2 and 10.480/7TS Issue 2 (publication of the issues in July 1997 at latest).

**Technical publication of the manufacturer:**

**LITEF Alert Service Bulletin VW/JH 6B751 dated June 12, 1996 and Service Bulletin 141450-0000-840-003 dated July 09, 1996 and becomes herewith part of this AD and may be obtained from Messrs.**

**LITEF GmbH  
Postfach 774**

**D-79007 Freiburg**

**Federal Republic of Germany**

**Accomplishment and log book entry:**

**Action to be accomplished by an approved service station and to be checked and entered in the log by a licensed inspector.**

**Note:**

**This AD supersedes the AD-No. 96-212 dated July 04, 1996.**

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