

## **Type-Approval Procedure**

### Information System of the German Type-Approval Authority

**Not examined English translation!**  
**Valid is only the German-language original!**

Directive 71/320/EEC;  
- EC type approvals for braking devices with complex electronic systems

#### **This memo replaces issue No. 07-03**

#### Question or problem:

The braking devices of vehicles are increasingly used for a variety of additional functions through the intervention of electronic components. Directive 71/320/EEC does not contain any specific requirements stipulating to what extent documentation regarding the fail-safety of such complex electronic systems must be provided. Due to the increasing influence such systems have on these braking devices, the participants of the Type Approval Authorities Meetings (TAAM) have discussed how this should be taken into consideration in the granting of type approvals pursuant to Directive 71/320/EEC.

#### Solution:

A high priority is given to the safe functioning of the braking devices. Therefore, the complex electronic systems used - i.e. those that under the Directive are using parts of the braking device for the function - must be functioning with a high degree of safety. The granting of system approvals pursuant to Directive 71/320/EEC with further electronic control systems in addition to the ABS is still possible. To document the fulfillment of the safety requirements, a test report in conformity with Attachment 18 of ECE-R 13 or Attachment 8 of ECE-R 18H must be submitted.

This results in the following procedure for the granting of system approvals pursuant to Directive 71/320/EEC with additional complex electronic systems:

#### **Existing approvals:**

Remain valid without any changes.

#### **New approvals:**

An test report in conformity with Attachment 18 of ECE-R 13 or Attachment 8 of ECE-R 13H on the safety aspects of the additional complex electronic systems must be submitted.

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**Additions/extensions:**

If the additional complex electronic systems remain unchanged, no additional tests are required.  
If new complex electronic systems are added or changes are made to the existing systems, a test report in conformity with Attachment 18 of ECE-R 13 or Attachment 8 of ECE-R 13H is required.

**Date of effectiveness:**

The above stipulations go into effect for applications submitted on or after 01 October 2004.

Flensburg, 25 June 2004  
412-621  
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