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

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

Test Report

Special Requirements with regard to Safety Aspects of Complex Electronic Control Systems in Motor Vehicles

e.g., in accordance with Annex 18 of ECE Regulation 13, series of amendments 09 supplement 6

	Approval status	
	Approval number	
e.g., ECE	-	

N.B.: The indication of the page number is to refer only to the test report

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0.   **General data**

0.1   Make:

0.2   Type:

0.3   Identification mark: (if applicable)

2.1   Name and address of the manufacturer:

0.4.1   Name and address of the Appointee:

2.1   Information folder or documentation

       No.:

       Date of issue:

       Date of last update:

Type-Approval Procedure
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1.   Test vehicle(s)/object(s)

1.1   General description: *N.B.: Information to be provided either here or as an attachment*

General description of the complex electronic system with its main components and functions, as well as brief explanation of the safety concept and of the possibility of testing the operating condition of the system in the periodic technical inspections *(see, for instance, paragraph 3.1 ECE Regulation 13, Annex 18)*

2.1   Description of the control function: *N.B.: Information to be provided either here or as an attachment*

Specific description of all control functions and
- list of all input and measurement variables,
- list of all output variables,
- boundaries within which the system functions *(see, for instance, paragraph 3.2 ECE Regulation 13, Annex 18)*

1.3   Description of the components: *N.B.: Information to be provided either here or as an attachment*

Specification (in list form) of the discrete functional units
with their respective
- combinations of assembly in the system,
- linkages and signal flow priorities,
- information regarding the identifiability of hard- and software *(see, for instance, paragraph 3.3 ECE Regulation 13, Annex 18)*

2.   Manufacturer's safety concept   *N.B.: Information to be provided either here or as an attachment*

2.1   Manufacturer's declaration:

The manufacturer(s) XXX has/have confirmed that the strategy chosen for the achievement of the objectives of the "system," assuming flawless conditions, does not interfere with the safe operation of parts of the equipment required under this regulation (e.g., braking device).

Type-Approval Procedure
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2.2   Hard and Software development:

Specification of the documents in which the software development process is described. Description/diagram of the software development process, including the software design factors

2.3   Function in case of errors in the system:

General description of the fallback, change or shut-off functions and any possible partial operation functions, including their conditions and boundaries of their effectiveness in the event of
any failures in the "system"

Description of the simulated malfunction

2.4   Analysis of the behavior of the "systems" in case of errors:

Description of the results and confirmation by the Technical Service that the corresponding documentation *(for instance in accordance with paragraph 3.4.4 of Annex 18 of ECE Regulation 13)* can be accessed by the approval authority through the manufacturer under reference number XXXX.

Specification of the documents evidencing the verification of the fault-free performance of the vehicle system in operation.

2.5   Resistance against environmental influences:

E.g., type and scope of tests on climate and mechanical resistance and electromagnetic compatibility

2.6   Testability of the system:

Description of the possibility of testing the operating condition of the system in the periodic technical inspections

2.7   General information:

Test location:

Test date:

2.8   Comments:

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

3.   Appendices:

Appendix 1:   *e.g., list of changes*

Appendix 2:   *e.g., general description regarding 1.1*

Appendix 3:   *e.g., manufacturer's declaration regarding 2.1*

4.   Final certificate
Statement of conformity

The information folder referred to in no. 0.5. and the type described therein – d o   c o n f o r m – to the above-mentioned test specification.

This test report consists of pages 1 to n.

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TEST LABORATORY

accredited by the accreditation office of the Federal Motor Vehicle Department,
Federal Republic of Germany

City   Date

Order number

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                                                            Name (please print):