

## Type-Approval Procedure

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

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

Directive 72/245/EEC as amended by 95/54/EG or ECE Regulation 10;  
- Technical documentation on electrical/electronic sub-assemblies (EUBn)

Attachment: Data sheet "Description of EUB"

#### Question or problem:

The technical documentation in the approval procedure takes place in most cases via manufacturing documents or data derived from them. Because of the totally different production processes used in the manufacture of electrical/electronic sub-assemblies (EUBn) this procedure in some cases runs into limitations.

What documents and data are suitable as an alternative to the submission of production documents to describe the EUB or parts thereof in a way that is satisfactory for the approval under Directive 72/245/EEC as amended by 95/54/EG or under ECE Regulation 10?

#### Result:

The documents used for the type approval process are meant to achieve the following objectives:

- The Technical Service must be able to verify in its test report the concurrence of the test object, in terms of the approval-relevant characteristics (here EMV), with the technical documentation in the specification folder.
- The Approval Authority must be able to make a decision on the compliance of the approval object with the regulations with the help of the description records (specification folder and test report).
- The Approval Authority and/or the Technical Service must be able to determine with the help of the documents of the type approval process in a reproducible manner whether the manufactured objects are in compliance with the approval (see also Item 3.4 of the Attachment X to Directive 70/156/EEC).

In case the applicant is not able to provide documentation in the usual, specified form, an alternative procedure is indicated. This procedure may be applied in full or in part. It is not meant to manipulate satisfactory processes, but instead it should help to facilitate an approval for certain applicant conditions taking into consideration the above-mentioned objectives.

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Submitting a technical documentation as an attachment to the test report that includes the following data and documents with regard to the EUB as a whole or with regard to individual parts of the EUB is considered sufficient:

#### 1. Functional description

The functions of the EUB are to be listed briefly and described in such a way that the approval makes it possible

- to evaluate the compliance with the type demarcation characteristics with regard to existing versions and
- to recognize all functions of the EUB that might be relevant for road traffic laws.

#### 2. Information about the external structure of the EUB

- Drawings with all data that might be relevant for the electromagnetic compatibility (material, main measurements, screens, slits) or equivalent photos are needed for the housing.
- The documentation for electrical motors must include other construction characteristics considered as relevant for the particular case (such as the Pole number).
- Indication of the electrical magnitudes voltage, electricity and performance at power input and power output.
- Indication of the connections (e.g. network connection, antenna connection, sensor connection)
- PIN or plug allocation for every connection with signals and/or signal forms  
The signal forms must be presented graphically in the technical documentation or – if it is question of defined signals – must be named.

Depending on the complexity of the unit to be described, information might be required for Items 3 to 5 for the entire EUB or for individual components.

#### 3. Information about the inner structure of the EUB

- Representation of the essential components of the EUB in their arrangement and linkage to one another in the form of diagrams
- In case of the purchase of essential components, these must be named by their type and must be documented via data sheet to be of industrial standard
- Photographic documentation of the EUB after their complete, non-destructive dismantling

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- Indication of the frequencies and names of all HF generators with an operating frequency exceeding 9 kHz included in the EUB. Assemblies for which no information is provided about HF generators with an operating frequency exceeding 9 kHz are to be documented via data sheet to be of industrial standard.
  
- 4. Information about noise suppression and shielding measures
  - The noise suppression and shielding measures must be indicated. Assemblies for which the suppression and shielding measures, or their absence, are not indicated, are to be documented via data sheet to be of industrial standard.
  
- 5. Information about the version of installed software
  - The software does not have to be documented. The manufacturer of the EUB, however, must monitor any effect on approval-relevant characteristics within the framework of planned software changes and, if necessary, must apply for an extension of the approval.
  
  - Documentation of the description of the software version is only required to the extent that the description refers to approval-relevant characteristics. In this connection non-relevant parts of the description may be replaced by placeholders.

Flensburg, on 28 August 2003  
412-622  
Helge Asmussen

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*Attachment: Data sheet*

#### Description of the EUB

1. Description of the device: [portable CD player with radio] <sup>1</sup>
2. Special features of the device: [Anti-skip system, station storage]
3. Accessory: [Stereo head phone]
4. representative device:
5. co-approved versions:  
(if necessary in the form of a table showing the differences between the representative device and the co-approved versions)

#### 6.1. HF generator with an operating frequency exceeding 9 kHz <sup>2</sup>

Position in the diagram	Functioning	Frequency
4	[system clock]	[16.7 MHz]
.....	.....	.....

#### 6.2. Broadband interference

Component	Functioning
[Motor 1]	[CD loading]
.....	.....

#### 6.3. Noise suppression and shielding measures <sup>3</sup>

Component	Arrangement
[Condensers (Rating ....., Manufacturer .....)]	[in Block 15]
[Deflector]	[via network]
.....	.....

<sup>1</sup> Indications in [...] are understood to be examples.

<sup>2</sup> Assemblies for which no information is provided with regard to the components that contain HF generators with an operating frequency exceeding 9 kHz are to be documented via data sheet as to their industrial standard.

<sup>3</sup> Assemblies for which no information is provided with regard to the noise suppression and shielding measures are to be documented via data sheet as to their industrial standard.

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7. Information about the used version of software  
Version [????????56???? 4  
Date [May 2003]

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<sup>4</sup> Placeholders (e.g. question marks) may be used for parts of the name of the software version that describe non-relevant properties with regard to the electromagnetic compatibility.