

5 February 2016

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## **Agreement**

### **Concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions\***

(Revision 2, including the amendments which entered into force on 16 October 1995)

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#### **Addendum 99 – Regulation No. 100**

#### **Revision 1 - Amendment 4**

Supplement 4 to the 01 series of amendments – Date of entry into force: 29 January 2016

#### **Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train**

This document is meant purely as documentation tool. The authentic and legal binding text is: ECE/TRANS/WP.29/2015/51.



**UNITED NATIONS**

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\* Former title of the Agreement: Agreement Concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958.



*Paragraphs 5. to 5.1.1.3., amend to read:*

## **"5. Specifications and tests**

### **5.1. Protection against electrical shock**

These electrical safety requirements apply to high voltage buses under conditions where they are not connected to external high voltage power supplies.

#### **5.1.1. Protection against direct contact**

Live parts shall be protected against direct contact and shall comply with paragraphs 5.1.1.1. and 5.1.1.2. Barriers, enclosures, solid insulators and connectors shall not be able to be opened, separated, disassembled or removed without the use of tools.

However, connectors (including the vehicle inlet) are allowed to be separated without the use of tools, if they meet one or more of the following requirements:

- (a) They comply with paragraphs 5.1.1.1. and 5.1.1.2. when separated, or
- (b) They are located underneath the floor and are provided with a locking mechanism, or
- (c) They are provided with a locking mechanism. Other components, not being part of the connector, shall be removable only with the use of tools in order to be able to separate the connector, or
- (d) The voltage of the live parts becomes equal or below 60 V DC or equal or below 30 V AC (rms) within 1 s after the connector is separated.

5.1.1.1. For protection of live parts inside the passenger compartment or luggage compartment, the protection degree IPXXD shall be provided.

5.1.1.2. For protection of live parts in areas other than the passenger compartment or luggage compartment, the protection degree IPXXB shall be satisfied."

*Paragraphs 5.1.1.4. to 5.1.1.5.3. (former), renumber as paragraphs 5.1.1.3. to 5.1.1.4.3.*