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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

**World Forum for Harmonization of Vehicle Regulations**

One-hundred-and-forty-ninth session  
Geneva, 10-13 November 2009  
Item 4.2.18 of the provisional agenda

**1958 AGREEMENT**

Consideration of draft amendments to existing Regulations

Proposal for the 02 series of amendments to Regulation No. 66  
(Strength of superstructure)

Submitted by the Working Party on General Safety Provisions \*/

The text reproduced below was adopted by the Working Party on General Safety (GRSG) at its ninety-sixth session. It is based on of ECE/TRANS/WP.29/GRSG/2009/5 and ECE/TRANS/WP.29/GRSG/2009/5/Corr.1, amended as reproduced in Annex II to the report. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration (ECE/TRANS/WP.29/GRSG/75, para. 4).

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\*/ In accordance with the programme of work of the Inland Transport Committee for 2006-2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance performance of vehicles. The present document is submitted in conformity with that mandate.

Paragraph 1., amend to read (footnote 1/ remains unchanged):

"1. SCOPE

- 1.1. This Regulation applies to single-deck rigid or articulated vehicles belonging to categories M<sub>2</sub> or M<sub>3</sub>, Classes II or III or class B having more than 16 passengers. 1/
- 1.2. At the request of the manufacturer, this Regulation may also apply to any other M<sub>2</sub> or M<sub>3</sub> vehicle that is not included in paragraph 1.1."

Paragraph 2.4., replace "Family of vehicle types" by "Group of vehicle types"

Insert a new paragraph 2.5., to read:

"2.5. "Double deck vehicle" means a vehicle where the provided spaces for passengers are arranged, at least in one part, in two superimposed levels and spaces for standing passengers are not provided in the upper deck."

Paragraphs 2.5.(former) to 2.8., renumber as paragraphs 2.6. to 2.9.

Paragraph 2.9.(former), renumber as paragraph 2.10. and amend to read:

"2.10. "Passenger compartment(s)" means the space(s) intended for passengers' use excluding any space occupied by fixed appliances such as bars, kitchenettes or toilets."

Paragraphs 2.10. (former) to 2.21., renumber as paragraphs 2.11. to 2.22.

Paragraph 2.22.(former), renumber as paragraph 2.23. and amend to read:

"2.23. "Body work" means the complete structure of the vehicle in running order, including all the structural elements which form the passenger compartment(s), driver's compartment, baggage compartment and spaces for the mechanical units and components."

Paragraphs 2.23. (former) to 2.30., renumber as paragraphs 2.24. to 2.31.

Paragraph 2.31.(former), renumber as paragraph 2.32. and amend to read:

"2.32. "Cantrail" means the longitudinal structural part of the bodywork above the side windows including the curved transition to the roof structures. In the rollover test the cantrail (in the case of a double deck coach, the cantrail of the upper deck) hits the ground first."

Paragraph 2.32.(former), renumber as paragraph 2.33. and amend to read:

"2.33. "Waistrail" means the longitudinal structural part of the bodywork below the side windows. In the rollover test the waistrail (in the case of a double deck coach, the waistrail of the upper deck) may be the second area to contact the ground after initial deformation of the vehicle cross-section."

Paragraph 3.2.2.1., replace the reference to paragraph 2.15. by a reference to paragraph 2.16.

Paragraph 4.2., amend to read:

"4.2. An approval number shall be assigned to each vehicle type approved. Its first two digits (at present 02 corresponding to the 02 series of amendments) shall indicate the series of amendments incorporating the most recent major technical amendments made to the Regulation at the time of issue of the approval. The same Contracting Party shall not assign the same number to another vehicle type."

Paragraph 5.5., amend to read:

"5.5. Testing of articulated vehicles"

Paragraph 6.1.1., in the last line, replace "family" by "group"

Insert new paragraphs 10.7. to 10.11., to read:

"10.7 As from the date of entry into force of the 02 series of amendments, no Contracting Parties applying this Regulation shall refuse to grant approval under this Regulation as amended by the 02 series of amendments.

10.8. Until 48 months after the date of entry into force of the 02 series of amendments, no Contracting Parties shall refuse national or regional approval of a vehicle approved to the preceding series of amendments to this Regulation.

10.9. As from 9 November 2017, Contracting Parties may refuse first registration of a new vehicle which does not meet the requirements of the 02 series of amendments to this Regulation.

10.10. Notwithstanding paragraphs 10.8 and 10.9, approvals of vehicle categories and classes granted to the preceding series of amendments to the Regulation, which are not affected by the 02 series of amendments, shall remain valid and Contracting Parties applying the Regulation shall continue to accept them.

10.11. Contracting Parties applying this Regulation shall not refuse to grant extensions of approval to the preceding series of amendments to this Regulation."

Annex 1., item 3., amend to read (including the insertion of a new footnote 3/):

"3. Vehicle category/class: 3/...

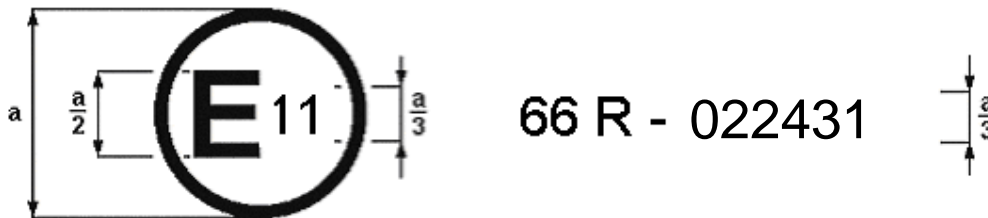
3/ As defined in Annex 7 to the Consolidated Resolution on the Construction of vehicles (R.E.3), (document TRANS/WP.29/78/Rev.1/Amend.2 as last amended by Amend.4)"

Annex 2., amend to read:

"Annex 2

ARRANGEMENT OF THE APPROVAL MARK

(See paragraph 4.4. of this Regulation)



The above approval mark affixed to a vehicle shows that the vehicle type concerned has, with regard to the strength of the superstructure, been approved in the United Kingdom (E11) pursuant to Regulation No. 66 under approval number 022431. The first two digits of the approval number indicate that the approval was granted in accordance with the requirements of the 02 series of amendments to Regulation No. 66."

Annex 3.

Insert a new paragraph 1.6.3., to read:

"1.6.3. in the case of a double deck vehicle, the mass of the passengers both on the lower and upper deck seats shall be taken into account."

Annex 5,

Paragraph 3.3., amend to read:

"3.3. For inside observation high-speed photography, video, deformable templates, electrical contact sensors or other suitable means shall be used to determine that the requirements of paragraph 5.1. of this Regulation have been met. This shall be verified at any places of the passenger, driver's and crew compartment where the residual space seems to be endangered, the exact positions being at the discretion of the technical service. At least two positions, nominally at the front and rear of the passenger compartment(s), shall be used."

Annex 6,

Paragraph 3.1.3., replace the reference to paragraph 2.27. by a reference to paragraph 2.28.

Paragraph 3.5.1., amend to read:

"3.5.1. the whole body section (bays, connecting structures, additional structural elements, supports) shall be considered when checking the validity of the two equations given in Annex 4, paragraph 4.2.1 and 4.2.2.;"

Paragraph 5.1., amend to read:

"5.1. The vehicle type shall be approved if all the body sections pass the rollover test and the two equations in paragraph 4.1.1. and 4.1.2. of Annex 4 are fulfilled."

Annex 7, Appendix 1,

Figure A7.A1.1, amend the title to read:

"Figure A7.A1.1 – Initial height of the vehicle centre of gravity"

Paragraph 4., amend to read:

"4. If more than one body sections are tested and each body section has a different vertical movement ( $\Delta h$ ), the vertical movement of centre of gravity ..."

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