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Item 3 (a) of the provisional agenda

Regulation No. 107

(M₂ M₃ vehicles)

Proposal for further amendments

Submitted by the expert from the International Organization of
Motor Vehicle Manufacturers (OICA)

The text reproduced below was prepared by the expert from OICA in order to mark on vehicles reliable information about the number of passengers and the permitted mass of baggage. It is based on a revised version of the informal document No. GRSG-92-21, which was distributed during the ninety-second session of the Working Party on General Safety Provisions (GRSG) (ECE/TRANS/WP.29/GRSG/71, para. 5). The modifications to the text of the Regulation No. 107 are marked in **bold** or ~~strike through~~ characters.

* Reissued for technical reasons.

A. PROPOSAL

Contents

Item 12., amend to read: "(Reserved)"

Paragraph 12., amend to read:

"12. (Reserved)":

Annex 1, part 1, Appendix 1, Explanatory notes (j), (k) and (l), amend to read:

"(j) Annex 11, paragraph 2.2.1.

(k) Annex 11, paragraph 2.2.2.

(l) Annex 11, paragraph 2.2.3.

Annex 1, part 2, appendix 1, paragraph 1.13., should be deleted.

Annex 1, part 2, appendix 3, paragraph 1.5., should be deleted.

(Note from A. Davis: the UK/Portugal manoeuvrability option (B) is now obsolete and it is proposed to delete it from the text in Annex 11. To refer to the 2 options in the above 2 paragraphs is no longer necessary.)

Annex 3

Paragraph 7.2.2.4., amend to read:

"7.2.2.4. In the case of a vehicle equipped with a variable seating capacity the area available for standing passengers (S₁) and the provisions of paragraph **3.3.1. of Annex 11** shall be determined for each of the following conditions as applicable;"

Paragraph 7.2.3.1., amend to read:

"7.2.3.1. Space shall be provided in the driver's area, in a position clearly visible to the driver in his seating position, for the markings provided for in paragraph 3.3. of Annex 11. "~~The vehicle shall be clearly marked in a manner visible on the inside in the vicinity of the front door in letters or pictograms not less than 15 mm high and numbers not less than 25 mm high, with:~~

~~7.2.3.1.1. the maximum number of seating places the vehicle is designed to carry;~~

~~7.2.3.1.2. the maximum number of standing places, if any, the vehicle is designed to carry;~~

~~7.2.3.1.3. the maximum number of wheelchairs which the vehicle is designed to carry, if any.~~

Paragraphs 7.2.3.2 and 7.2.3.3., amend to read:

"7.2.3.2. ~~Reserved~~ If a vehicle is designed to have a variable number of seating places, area available for standing passengers or number of wheelchairs carried, the requirements of ~~paragraph 7.2.3.1.~~ shall apply to each maximum seating capacity and the corresponding number of wheelchairs and standing passengers as appropriate.

"7.2.3.3. **Reserved**" Space shall be provided in the driver's area, in a position clearly visible to the driver, in letters or pictograms not less than 10 mm high and numbers not less than 12 mm high, with:

~~7.2.3.3.1. the mass of baggage which may be carried when the vehicle is loaded with the maximum numbers of passengers and crew and the vehicle is not exceeding the technically permissible maximum mass, or the permissible mass of any axle. This shall include the mass of baggage:~~

~~7.2.3.3.1.1. in baggage compartments (mass B, paragraph 7.4.3.3.1. of annex 11);~~

~~7.2.3.3.1.2. on the roof if equipped for the carriage of baggage (mass BX, paragraph 7.4.3.3.1. of annex 11)~~

Paragraph 7.4.2.1., amend to read:

"7.4.2.1. Loads equal to Q (as defined in paragraph 3.2.3.2.1. ~~7.4.3.3.1.~~ of annex 11) shall be placed on each passenger seat (of the upper deck only in the case of double-deck vehicles).

If a single deck vehicle is intended for standees or with a crew member who is not seated, the centre of gravity of the loads Q or 75kg representing them, shall be uniformly distributed over the standee or crew area respectively, at a height of 875 mm. If a double deck vehicle is intended to be used with a crew member who is not seated, the centre of gravity of the mass of 75 kg representing the crew member shall be placed in the upper deck gangway at a height of 875 mm.

Where a vehicle is equipped to carry luggage on the roof, a uniformly distributed mass (BX) of not less than that declared by the manufacturer in accordance with paragraph **3.2.3.2.1.** ~~7.4.3.3.1.~~ of annex 11, representing such baggage shall be secured to the roof. The other baggage compartments shall not contain any baggage."

Annex 11,

Paragraphs 2.1., 2.2., 2.5., 2.6., 2.12., 3., to 6., 7.2., 7.3., 7.4.1.7., 7.4.2., 7.4.2.4., 7.4.2.5., 7.4.2.6., 7.4.3.1., 7.4.4., 7.5., 7.6.1.1., 7.6.1.2., 7.6.2., 7.6.3. and 7.6.3.1. to 7.11., should be deleted.

Paragraphs 2.3. to 2.4.3., renumber as 2.1. to 2.2.3.

Paragraphs 2.7. to 2.11., renumber as 2.3. to 2.7.

Paragraph 2.7. (new), replace "motor vehicle" by "vehicle" (twice).

Paragraphs 2.13. and 2.14., renumber as 2.8. to 2.2.3.

Paragraphs 7. and 7.1., renumber as 3. and 3.1.

Paragraphs 7.4. to 7.4.1.6., renumber as 3.2. to 3.2.1.6.

Insert new paragraph 3.2.2., to read:

"3.2.2. Loading limitations"

Paragraphs 7.4.2.1. to 7.4.2.3., renumber as 3.2.2.1. to 3.2.2.3.

Paragraph 7.4.2.7., renumber as 3.2.2.4.

Paragraph 7.4.3., renumber as 3.2.3. and amend to read:

"3.2.3. Loading conditions"

Paragraphs 7.4.3.2. to 7.4.3.5., renumber as 3.2.3.1 to 3.2.3.4.

Insert new paragraphs 3.3. to 3.3.2., to read

"3.3. Marking of vehicles.

3.3.1. The vehicle shall be clearly marked on the inside in a position visible to the driver in his seating position:

3.3.1.1. in letters or pictograms not less than 15 mm high and numbers not less than 25 mm high, with:

3.3.1.1.1. the maximum number of seating places the vehicle is designed to carry;

3.3.1.1.2. the maximum number of standing places, if any, the vehicle is designed to carry;

3.3.1.1.3. the maximum number of wheelchairs which the vehicle is designed to carry, if any.

3.3.1.2. in letters or pictograms not less than 10 mm high and numbers not less than 12 mm high, with:

3.3.1.2.1. the mass of baggage which may be carried when the vehicle is fully loaded according to paragraph 3.2.3.

3.3.1.2.2. as appropriate this shall include the mass of baggage:

3.3.1.2.2.1. in baggage compartments (mass B, paragraph 3.2.3.2.1.);

3.3.1.2.2.2. on the roof if equipped for the carriage of baggage (mass BX, paragraph 3.2.3.2.1.).

3.3.2. Space shall be provided adjacent to the above markings allowing the vehicle to be marked, in letters or pictograms not less than 10 mm high and numbers not less than 12 mm high, with the mass of baggage B and BX which may be carried when the vehicle is loaded with the maximum number of passengers and crew and the vehicle is not exceeding the maximum laden mass, or the maximum mass of any axle or group of axles at which the vehicle can be put into service in the Contracting Party where it is to be registered. Contracting Parties that require the marking of this mass shall, in agreement with the manufacturer, determine the mass of baggage to be marked and take the necessary measures to ensure that vehicles are so marked prior to their registration."

Paragraphs 7.6. and 7.6.1., renumber as 3.4. and 3.4.1.

Paragraph 3.4.1. (new), last sentence should be deleted.

Insert new paragraphs 3.4.1.1. to 3.4.4., to read:

"3.4.1.1. The requirements of paragraph 3.4.1. shall be verified with the outermost front point of the vehicle guided along the contour of the outer circle (see figure A).

3.4.2. With the vehicle stationary, a vertical plane tangential to the side of the vehicle and facing outwards from the circle shall be established by marking a line on the ground. In the case of an articulated vehicle, the two rigid portions shall be aligned with the plane. When the vehicle moves from a straight line approach into the circular area described in paragraph 3.4.1., no part of it shall move outside of that vertical plane by more than 0.60 m (see figures B and C).

3.4.3. The requirements of paragraphs 3.4.1. and 3.4.2. may also be verified, at the request of the manufacturer, with an appropriate equivalent calculation or geometric demonstration.

3.4.4. In the case of incomplete vehicles, the manufacturer shall declare the maximum permissible dimensions for which the vehicle is to be checked against the requirements of paragraphs 3.4.1. and 3.4.2."

B. JUSTIFICATION

As there is no harmonized Regulation concerning the permissible axle loads and gross vehicle masses, different limits are established by national legislations of Contracting Parties. Such variations create major problems for vehicle operators, and vehicles exceeding nationally permissible limits may be found on roads.

In order to reduce the risk of inadvertent overloading, OICA proposes to establish requirements that would assist the driver to estimate the amount of baggage that can be legally carried on a vehicle when it is loaded with the maximum number of passengers and is circulating in the territory of a particular country. Therefore, it is proposed that the number of passengers and the baggage mass relevant to the maximum technical masses of the vehicle and of its axle(s) should be clearly marked in the driver's compartment and that space is provided allowing the marking of the baggage mass that is relevant to masses in the country where the vehicle is registered. Contracting Parties requiring this baggage mass to be marked should, in agreement with the vehicle manufacturer, determine the actual mass to be marked.

Marking the vehicle with the number of passengers and the mass of baggage that can be carried is directly linked to Annex 11 "Masses and Dimensions", which requires calculations to be carried out for the different technical configurations. OICA proposes to transfer the marking requirements from Annex 3 and to introduce them into Annex 11. Annex 3 will only contain a requirement of the space necessary for the marking and not for the marking itself.

Annex 11 is a copy of the requirements of European Directive 97/27/EC and when introducing it into Regulation No. 107, incorrectly included prescriptions that are not relevant to vehicles of categories M₂ and M₃. OICA proposes to reedit Annex 11 in a manner which only contains prescription relevant to vehicles of categories M₂ and M₃, which is more easily understandable and which introduces the marking requirements mentioned above.
