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Item 6 (a) of the provisional agenda

Regulation No. 48 (Installation of lighting and light-signalling devices) –

Proposal for amendments to the 05 and 06 series of amendments

Proposal for Supplement 9 to the 05 series of amendments and Supplement 7 to the 06 series of amendments to Regulation No. 48 (Installation of lighting and light-signalling devices)

Submitted by the expert from the International Automotive Lighting and Light Signalling Expert Group (GTB)*

The text reproduced below was prepared by the expert from GTB to clarify the application of paragraph 5.7.1.3. to the separation of rear direction indicator lamps and stop lamps. The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2012–2016 (ECE/TRANS/224, para. 94 and ECE/TRANS/2012/12, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

I. Proposal

Paragraph 5.7.1.3. amend to read:

- "5.7.1.3. Where stop lamps and direction-indicator lamps are grouped, **at least one of** the following conditions shall be met:
- 5.7.1.3.1. if the apparent surface of the direction indicator lamp(s) and/or the stop lamp(s) is composed of two or more distinct parts, then any** ~~Any horizontal or vertical~~ straight line passing through the projections of ~~the said~~ ~~apparent surface, s of these functions~~ on a plane perpendicular to the reference axis, shall not intersect ~~more than two~~ **any common** borderlines ~~separating adjacent areas of different colour~~ **between these two functions more than twice; or**
- 5.7.1.3.2. their apparent surfaces in the direction of the reference axis, based upon the areas bounded by the outline of their light emitting surfaces, do not overlap; **or**
- 5.7.1.3.3. the electrical connection are such that part(s) of the lamp on the side of the activated direction indicator lamp is switched off during the entire period (both ON and OFF cycle) of the direction indicator lamp activation, in conformity with the requirements of paragraph 5.9.2. of this Regulation."**

II. Justification

1. The present requirements in paragraph 5.7.1.3.1. of Regulation No. 48 have been found not to be uniformly applicable and not totally suitable for the purposes of avoiding the "signal mix" of grouped direction indicator lamps and stop lamps.
 2. To improve the present requirements of paragraph 5.7.1.3.1. on the basis of the colour changes concept, three alternative approaches for a suitable separation of direction indicator lamps and stop lamp are proposed:
 - (a) the improved test of the existing paragraph 5.7.1.3.1. clarifies its application to lamps composed of more than one part and deletes the concept of "adjacent" parts of the lamps (that in the past led to different interpretations) in favour of a description of the condition of application of the requirement;
 - (b) the unchanged text of paragraph 5.7.1.3.2.;
 - (c) the new paragraph 5.7.1.3.3. provides for specific electrical connections of the involved functions, in conjunction with the requirements of paragraph 5.9.2.
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