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**ECONOMIC COMMISSION FOR EUROPE**

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

Sixtieth session

Geneva, 1 - 3 October 2008

Item 4(g) of the provisional agenda

REGULATION No. 48

(Installation of lighting and light-signalling devices)

Arrangement of electrical connections

Proposal for draft Supplement 3 to Regulation No. 48

Submitted by the expert from the Working Party "Brussels 1952" \*/

The text reproduced below was prepared by the expert from the Working Party "Brussels 1952" (GTB) in order to provide a consolidated text regarding paragraphs 5.7., 5.11., 5.12. and 5.24. of Regulation No. 48 which includes the proposals discussed during the fifty-ninth GRE session as well as the outcome of the discussion of these proposals in the GTB meeting. It is based on documents ECE/TRANS/WP.29/GRE/2008/7 and ECE/TRANS/WP.29/2008/23 (see report ECE/TRANS/WP.29/GRE/59, paras. 11, 12 and 23). The modifications to the current text of Regulation No. 48 are marked in bold or strikethrough characters.

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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.

A. PROPOSAL

Insert a new paragraph 5.7.1.1., to read:

**"5.7.1.1. The photometric and colorimetric requirements of a lamp shall be fulfilled when all other functions with which this lamp is grouped, combined or reciprocally incorporated are switched OFF.**

**However, when a front or rear position lamp is reciprocally incorporated with one or more other function(s), the requirements regarding colour of each of these other functions shall be fulfilled when the reciprocally incorporated function(s) and the front or rear position lamps are switched ON, except in the case where provisions of paragraph 5.11.4. are fulfilled."**

Paragraph 5.7.1.1.(former), renumber as paragraph 5.7.1.2. and amend to read:

"5.7.1.2. ~~However~~, Where stop lamps ...."

Paragraph 5.11., amend to read:

"5.11. The electrical connections must be such that the front and rear position lamps, the end-outline marker lamps, if they exist, the side-marker lamps, if they exist, and the rear registration plate lamp can only be switched **ON** and **OFF** simultaneously.

**This condition does not apply:**

**5.11.1.** when ~~using~~ front and rear position lamps **are switched ON**, as well as side-marker lamps when combined or reciprocally incorporated with said lamps, as parking lamps;

**5.11.2.** when side-marker lamps are permitted to flash."

Insert new paragraphs 5.11.3. to 5.11.4.2., to read:

**"5.11.3. to front position lamps when their function is substituted under the provisions of paragraph 5.12.1. below.**

**5.11.4. when front or rear position lamps are reciprocally incorporated with another lamp/function. In this case, the respective front or rear position lamp or part thereof may be switched OFF and substituted by another lamp/function within a common lamp body during the entire period of activation of the substituting lamp/function on the relevant side of the vehicle, provided that**

**5.11.4.1. the substituting lamp/function meets, for the respective position lamp, the requirements concerning**  
**(a) the geometric visibility; and**  
**(b) the minimum photometric values according to the angles of light**

**distribution.**

**5.11.4.2. appropriate evidence demonstrating compliance with the requirements indicated in paragraph 5.11.4.1. above is provided in the test reports of the substituting lamp/function."**

Paragraph 5.12., amend to read:

"5.12. The electrical connections **shall** be such that .... and dipped-beam headlamps;"

Insert new paragraph 5.12.1., to read:

**"5.12.1. The dipped-beam headlamps and/or the main-beam headlamps and/or the front fog lamps may substitute the function of the front position lamps, provided that:**

- (a) their electrical connections are such that in case of failure of any of these lighting devices the front position lamps are automatically re-activated, and**
- (b) they fulfil the requirements of paragraphs 5.11.4.1. and 5.11.4.2. above."**

Paragraph 5.24., amend to read:

"5.24. Any temporary fail-safe replacement of the light-signalling function of a rear position lamp is allowed, provided that the **replacement** function in case of a failure is similar in colour, main intensity and position to the function that has ceased to operate and provided that the **replacement** device remains operational in its original safety function. During **replacement**, a tell-tale on the dashboard (see paragraph 2.18. of this Regulation) shall indicate occurrence of a temporary replacement and need for repair."

**B. JUSTIFICATION**

At its fifty-ninth session, GRE considered and partly adopted a proposal from GTB for provisions which would cover the substitution of front/rear position lamps reciprocally incorporated with other lamps/functions. It also considered a proposal from Italy regarding the substitution of front position lamps by front lighting devices. In both cases, GRE agreed to reconsider the issue at its sixtieth session, pending proposals which ensure that the requirements for geometric visibility and minimum photometric requirements are covered for the substituting lamp/function. The present text is intended to cover both issues and provide a basis for discussion of consolidated amendments to Regulation No. 48. In particular, the new paragraph 5.11.4.2. has been drafted in order to amend headlamp Regulations, as indicated at the fifty-ninth GRE session (ECE/TRANS/WP.29/GRE/59, paras. 12 and 23).

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