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**PROPOSAL FOR SUPPLEMENT 2 TO THE 03 SERIES OF AMENDMENTS TO
REGULATION No. 48**

(Installation of lighting and light-signalling devices)

Submitted by the Working Party on Lighting and Light-Signalling (GRE)

Note: The text reproduced below was adopted by GRE at its fifty-sixth session. It is based on ECE/TRANS/WP.29/GRE/2006/32, TRANS/WP.29/GRE/2005/43 and ECE/TRANS/WP.29/GRE/2005/43/Corr.1 all amended by Annex 2 to the report. It is submitted to WP.29 and AC.1 for consideration (ECE/TRANS/WP.29/GRE/56, paras. 29 and 50).

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Insert a new paragraph 2.7.1.3., to read:

"2.7.1.3. "Variable intensity control" means the device which automatically controls rear light signaling devices producing variable luminous intensities to assure the unvarying perception of their signals. The variable intensity control is part of the lamp, or part of the vehicle, or split between the said lamp and the vehicle."

Paragraph 2.10., amend to read:

"2.10. ... to the most exterior point of the lens (see Annex 3 to this Regulation).

Only in the case of a light-signalling device producing variable luminous intensities, its apparent surface that may be variable as specified in paragraph 2.7.1.3. shall be considered under all conditions permitted by the variable intensity control, if applicable."

Insert a new paragraph 5.25., to read:

"5.25. Rear direction indicator lamps, rear position lamps, stop lamps (except stop lamps of category S4) and rear fog lamps with variable luminous intensity control are allowed, which respond simultaneously to at least one of the following external influences: ambient lighting, fog, snowfall, rain, spray, dust clouds, contamination of the light emitting surface, provided that their prescribed intensity relationship is maintained throughout variation transitions. No sharp variation of intensity shall be observed during transition. Stop lamps of category S4 may produce variable luminous intensity independent from the other lamps. It may be possible for the driver to set the functions above to luminous intensities corresponding to their steady category and to return them to their automatic variable category."

Paragraph 6.2.8., amend to read:

"6.2.8. Tell-tale

Tell-tale optional.

However, in the case where the whole beam or the kink of the elbow of the cut-off is moved to produce bend lighting, an operating tell-tale whether flashing or not is mandatory; it shall be activated in the event of a malfunction of the displacement of the kink of the elbow of the cut-off. It shall remain activated while the failure is present. It may be cancelled temporarily, but shall be repeated whenever the device which starts and stops the engine is switched on and off."

Paragraph 6.7.1., amend to read:

"6.7.1.on all categories of vehicles.

Devices of S3 or S4 category: mandatory on ..."

Paragraph 6.7.2., amend to read:

"6.7.2. Number

Two S1 or S2 category devices and one S3 or S4 category device on all categories of vehicles."

Paragraph 6.7.2.1., amend to read:

"6.7.2.1. Except in the case where a category S3 or S4 device is installed, two optional category S1 or S2 devices may be installed on vehicles in categories M2, M3, N2, N3, O2, O3, and O4."

Paragraph 6.7.2.2., amend to read:

"6.7.2.2. Only, when the median longitudinal plane of the vehicle is not located on a fixed body panel but separates one or two movable parts of the vehicle (e.g. doors), and lacks sufficient space to install a single device of the S3 or S4 category on the median longitudinal plane above such movable parts, either:
two devices of the S3 or S4 category type "D" may be installed, or
one device of the S3 or S4 category may be installed offset to the left or to the right of the median longitudinal plane."

Paragraph 6.7.4.1., amend to read:

"6.7.4.1. is less than 1,300 mm.

For S3 or S4 category devices: the centre of reference shall be situated on the median longitudinal plane of the vehicle. However, in the case where the two devices of the S3 or S4 category are installed, according to paragraph 6.7.2., they shall be positioned as close as possible to the median longitudinal plane, one on each side of this plane.

In the case where one S3 or S4 category lamp offset from the median longitudinal plane is permitted according to paragraph 6.7.2., this offset shall not exceed 150 mm from the median longitudinal plane to the centre of reference of the lamp."

Paragraph 6.7.4.2.2., amend to read:

"6.7.4.2.2. For S3 or S4 categories devices, the horizontal plane tangential to the lower edge of the apparent surface shall:
either not be more than 150 mm below the horizontal plane tangential to the lower edge of the exposed surface of the glass or glazing of the rear window, or
not be less than 850 mm above the ground.

However, the horizontal plane tangential to the lower edge of the apparent surface of a S3 or S4 category device shall be above the horizontal plane tangential to the upper edge of the apparent surface of S1 or S2 categories devices."

Paragraph 6.7.4.3., amend to read:

"6.7.4.3. In length:

For S1 or S2 categories devices: at the rear of the vehicle.

For S3 or S4 categories devices: no special requirement."

Paragraph 6.7.5., amend to read:

"6.7.5. Geometric visibility

Horizontal angle: For S3 or S4 categories devices:

Vertical angle : For S3 or S4 categories devices: ..."

Paragraph 6.7.9.1., amend to read:

"6.7.9.1. The S3 or S4 category device may not be reciprocally incorporated with any other lamp."

Paragraph 6.7.9.2., amend to read:

"6.7.9.2. The S3 or S4 category device may be installed outside or inside the vehicle."

Paragraph 6.10.1., amend to read:

"6.10.1. Presence:

Devices of R1 or R2 categories: Mandatory"

Paragraph 6.11.1., amend to read:

"6.11.1. Presence:

Devices of F1 or F2 categories: Mandatory"

Paragraph 6.13.1., amend to read:

"6.13.1. Presence:

Devices of R1 or R2 categories: Mandatory on vehicles"
