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World Forum for Harmonization of Vehicle Regulations (WP.29)  
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agenda item 4.2.9.)

PROPOSAL FOR DRAFT SUPPLEMENT 11 TO THE 02 SERIES  
OF AMENDMENTS TO REGULATION No. 48

(Installation of lighting and light-signalling devices)

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

Note: The text reproduced below was adopted by GRE at its fifty-third session and is transmitted for consideration to WP.29 and AC.1 (TRANS/WP.29/GRE/53, paras. 23, 26 and 34). It is based on documents TRANS/WP.29/GRE/2004/38, as amended by paragraph 22 of the report (TRANS/WP.29/GRE/53), TRANS/WP.29/GRE/2004/48, as reproduced by informal document No. GRE-53-12, and TRANS/WP.29/GRE/2004/31, as amended by informal document No. GRE-53-13.

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Paragraph 2.7., amend to read:

"2.7. "Lamp" means a device designed to illuminate the road or to emit a light signal to other road users. With the exception of light emitting rear registration plates, rear registration plate lamps and retro-reflectors are likewise to be regarded as lamps;"

Paragraphs 2.7.16.1. to 2.7.16.3., amend to read:

- "2.7.16.1. retro-reflecting registration plates or a rear registration plate lamp(s);
- 2.7.16.2. the retro-reflecting signals mentioned in the ADR (European Agreement concerning the international carriage of dangerous goods by road);
- 2.7.16.3. other retro-reflective markings which must be used to comply with national requirements for use as regards certain categories of vehicles or certain methods of operation."

Paragraph 5.10., amend to read:

"5.10. No red light which could give rise to confusion shall be emitted from a lamp as defined in paragraph 2.7. in a forward direction and no white light which could give rise to confusion, other than from the reversing lamp and/or rear registration plate lamp(s), shall be emitted from a lamp as defined in paragraph 2.7. in a rearward direction. No account shall be taken of lighting devices fitted for the interior lighting of the vehicle. In case of doubt, this requirement shall be verified as follows:"

Paragraphs 5.17. to 5.21., amend to read:

- "5.17. Any lamp may be installed on movable components provided that the conditions specified in paragraphs 5.18., 5.19. and 5.20. are fulfilled.
- 5.18. Rear position lamps, rear direction-indicators and rear retro-reflectors, triangular as well as non triangular, may be installed on movable components only:
  - 5.18.1. - if at all fixed positions of the movable components the lamps on the movable components meet all the position, geometric visibility and photometric requirements for those lamps. Should the above functions be obtained by an assembly of two lamps marked "D" (see paragraph 2.16.1.) only one of these lamps needs to meet the above-mentioned requirements.
  - or
  - 5.18.2. - where additional lamps for the above functions are fitted and are activated, when the movable component is in any fixed open position, provided that these additional lamps satisfy all the position, geometric visibility and photometric requirements applicable to the lamps installed on the movable component.

- 5.19. When the movable components are in a position other than a "Normal position of use", the devices installed on them shall not cause undue discomfort to road users.
- 5.20. When a lamp is installed on a movable component and the movable component is in the "normal position(s) of use", the lamp must always return to the position(s) specified by the manufacturer in accordance with this Regulation. In the case of dipped-beam headlamps and front fog lamps, this requirement shall be considered satisfied if, when the movable components are moved and returned to the normal position 10 times, no value of the angular inclination of these lamps, relative to its support, measured after each operation of the movable component, differs by more than 0.15 per cent from the average of the 10 measured values. If this value is exceeded each limit specified in paragraph 6.2.6.1.1. shall then be modified by this excess to decrease the allowed range of inclinations when checking the vehicle according to Annex 6.
- 5.21. The apparent surface in the direction of the reference axis of front and rear position lamps, front and rear direction-indicator lamps and retro-reflectors shall not be hidden more than 50 per cent by any movable component, with or without a light-signalling device installed on it, in any fixed position different from the "normal position of use".

If the above requirement is not practicable:

- 5.21.1. additional lamps satisfying all the position, geometric visibility and photometric requirements for the above indicated lamps shall be activated when the apparent surface in the direction of the reference axis of these lamps is more than 50 per cent hidden by the movable component
- or
- 5.21.2. - a remark in the communication form (item 10.1. of Annex 1) shall inform other Administrations that more than 50 per cent of the apparent surface in the direction of the reference axis can be hidden by the movable components;
- and
- a notice in the vehicle shall inform the user that in certain position(s) of the movable components other road users shall be warned of the presence of the vehicle on the road; for example by means of a warning triangle or other devices according to national requirements for use on the road."

Insert a new paragraph 5.21.3., to read:

- "5.21.3. Paragraph 5.21.2. does not apply to retro-reflectors."

Paragraph 6.8.2., amend to read:

"6.8.2. Number

Such that the device illuminates the site of the registration plate, and/or one rear registration plate lamp(s)."

Paragraph 6.8.7., amend to read:

"6.8.7. Electrical connections

In accordance with paragraph 5.11.

In case that a rear registration plate lamp and a rear registration plate which emits the light itself is installed together only one of both devices shall be activated."

Paragraph 6.9.9., amend to read:

"6.9.9. Other requirements

If one or more infrared radiation generator(s) is (are) installed inside the front position lamp, it (they) is (are) allowed to be activated only when the headlamp on the same side of the vehicle is switched on and the vehicle is in forward motion. In the event that the front position lamp or the headlamp on the same side fails, the infrared radiation generator(s) shall be automatically switched off."

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