

Proposal for amendments to ECE/TRANS/WP.29/GRE/2016/8 on Regulation No. 48 (Installation of lighting and light-signalling devices)

The text reproduced below was prepared by the expert from the International Organization of Motor Vehicle Manufacturers (OICA) to amend ECE/TRANS/WP.29/GRE/2016/8. The modifications to the current text of Regulation No. 48 are marked in bold for new or strikethrough for deleted characters. The modifications to ECE/TRANS/WP.29/GRE/2016/8 are marked in red.

I. Proposal

A. Regulation No. 48

Paragraph 6.19.7.5., amend to read:

"6.19.7.5. If the distance between the **edge of the apparent surface in the direction of the reference axis of the** front direction-indicator lamp of:

6.19.7.5.1. categories 1, ~~1a or 1b~~ and that of the apparent surface in the direction of the reference axis of the daytime running lamp installed on the same side of the vehicle is equal or less than 40 mm, the electrical connections of the daytime running lamp on the relevant side of the vehicle **shall** be such that either:

- (a) It is switched OFF **during the entire period (both ON and OFF cycle) of activation of the front direction-indicator lamp;** or
- (b) Its luminous intensity is reduced during the entire period (both ON and OFF cycle) of activation of **the** front direction-indicator lamp, **to attain not more than 140 cd in any direction the lamp is visible. The conformity to this requirement shall be verified at the time of the daytime running lamp type approval and indicated in the related communication form.**

6.19.7.5.2. categories 1a or 1b and that of the apparent surface direction of the reference axis of the daytime running lamp installed on the same side of the vehicle is equal or less than 40 mm, the electrical connections of the daytime running lamp on the relevant side of the vehicle shall be such that either:

- (a) **It is switched OFF during the entire period (both ON and OFF cycle) of activation of the front direction-indicator lamp; or**
- (b) **Its luminous intensity is reduced during the entire period (both ON and OFF cycle) of activation of the front direction-indicator lamp, to attain not more than 140 cd in any direction the lamp is visible. The conformity to this requirement shall be verified at the time of the daytime**

running lamp type approval and indicated in the related communication form; or

(c) It does not have to be switched OFF nor dimmed."

Paragraph 6.19.7.6., amend to read:

"6.19.7.6. If a **front** direction-indicator lamp is reciprocally incorporated with a daytime running lamp:

6.19.7.6.1. having totally common apparent surfaces, the electrical connections of the daytime running lamp on the relevant side of the vehicle shall be such that the daytime running lamp is switched OFF during the entire period (both ON and OFF cycle) of activation of the **front** direction-indicator lamp.

6.19.7.6.2. having partially common apparent surfaces, the electrical connections of the daytime running lamp on the relevant side of the vehicle shall be such that either:

(a) the whole daytime running lamp is switched OFF during the entire period (both ON and OFF cycle) of activation of the front direction-indicator lamp; or

(b) only the common apparent surfaces of the daytime running lamp are switched off and the luminous intensity of any remaining part is reduced, during the entire period (both ON and OFF cycle) of activation of the front direction-indicator lamp, to attain not more than 140 cd in any direction the lamp is visible. The conformity to this requirement shall be verified at the time of the daytime running lamp type approval and indicated in the related communication form."

Paragraph 12., add a new paragraph 12.6., to read:

"12.6. Transitional provisions applicable to 07 series of amendments.

12.6.1. As from the official date of entry into force of the 07 series of amendments, no Contracting Party applying this UN Regulation shall refuse to grant or refuse to accept UN type approvals under this UN Regulation as amended by the 07 series of amendments.

12.6.2. As of 1 September 20XX, Contracting Parties applying this UN Regulation shall not be obliged to accept UN type approvals of new vehicle types to the preceding series of amendments, first issued after 1 September 20XX.

12.6.3. Contracting Parties applying this UN Regulation shall not refuse to grant extensions of UN type approval to the preceding series of amendments to this UN Regulation."

Regulation No. 87

Add a new paragraph 7.5., to read:

"7.5. Upon request of the applicant, the daytime running lamp shall also be tested for a "reduced luminous intensity", in application of paragraph 6.19.7.5. or 6.19.7.6. of Regulation No. 48.

In this case, in addition to the photometric value prescribed in paragraphs 7.1. to 7.3., the reduced luminous intensity of the light emitted by each lamp shall not exceed 140 cd in any direction the lamp is visible."

Add a new paragraph 10.6., to read:

"10.6. All measurements, photometric and colorimetric, of the "reduced luminous intensity" shall be carried out applying to the input terminals of the lamp the voltage declared by the manufacturer. Where necessary, the test laboratory may require from the manufacturer the light source control gear needed to supply the light source and the applicable functions."

Annex 1, item 9, amend to read:

"9. Concise description:
 By category of lamp:
Reduced luminous intensity **Yes/No²**
 Number, category and kind of light source(s):¹
 Voltage and wattage:
 Application of an electronic light source control gear:
 (a) Being part of the lamp: Yes/No²
 (b) Being not part of the lamp: Yes/No²
 Input voltage supplied by an electronic light source control gear:
(a) for normal luminous intensity:.....
(b) for reduced luminous intensity:
 Electronic light source control gear manufacturer and identification number
 (when the light source control gear is part of the lamp but is not included into
 the lamp body):....."

II. Justification

1. When the distance between direction indicators of categories 1a and 1b and dipped-beam headlamps is in the range of 20 mm to 40 mm, it is not required to switch-off nor to dim the dipped-beam headlamps (see prescriptions of paragraph 6.5.3.). This is in contradiction with the proposed requirements of ECE/TRANS/WP.29/GRE/2016/8 for DRL and direction indicators. Therefore, in order to align these two requirements, it should be optional for categories 1a and 1b to be switched off or to be dimmed.
2. Because the requirements are changing from *optional* ("may") to *mandatory* ("shall"), it is an intensification. For products which are already in the design process, it is then not possible to fulfill it. Therefore, we request transitional provisions of 24 months.

¹ For daytime running lamps with non-replaceable light sources indicate the number and total wattage of the light sources used.