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**ECONOMIC COMMISSION FOR EUROPE**

INLAND TRANSPORT COMMITTEE

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

DRAFT SUPPLEMENT 7 TO THE 02 SERIES  
OF AMENDMENTS TO REGULATION No. 48

(Installation of lighting and light-signalling devices)

Note: The text reproduced below was adopted by the Administrative Committee (AC.1) of the amended 1958 Agreement at its twenty-fourth session, following the recommendation by WP.29 at its one-hundred-and-thirtieth session. It is based on documents TRANS/WP.29/2003/25/Rev.1, as amended (English and Russian only) and TRANS/WP.29/2003/52, not amended (TRANS/WP.29/926, para. 106).

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Paragraph 2.7.16.3., amend to read:

"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."

Insert a new paragraph 2.7.17., to read:

"2.7.17. "Retro-reflective marking" means an additional marking of characteristic shape and/or pattern intended to increase the visibility and easy identification of certain categories of vehicles and their trailers by the reflection of light emanating from a light source not connected to the vehicle, the observer being situated near the source."

Paragraphs 2.7.17. (former) to 2.7.25., renumber as paragraphs 2.7.18. to 2.7.26.

Insert a new paragraph 2.7.27., to read:

"2.7.27. "objective luminous flux" means a design value of the luminous flux of a replaceable light source. It shall be achieved, within the specified tolerances, when the replaceable light source is energized by the power supply at the specified test voltage, as indicated in the data sheet of the light source."

Paragraph 2.9.1., amend the reference to "(paragraphs 2.7.9., 2.7.10., 2.7.18. and 2.7.20.)", to read "(paragraphs 2.7.9., 2.7.10., 2.7.19. and 2.7.21.)".

Paragraph 2.9.2., amend the reference to "(paragraphs 2.7.11. to 2.7.15., 2.7.17., 2.7.19. and 2.7.21. to 2.7.24.)" to read "(paragraphs 2.7.11. to 2.7.15., 2.7.18., 2.7.20. and 2.7.22. to 2.7.25.)".

Paragraph 5.2., amend the reference to "paragraphs 2.7.9., 2.7.10. and 2.7.18." to read "paragraphs 2.7.9., 2.7.10. and 2.7.19."

Paragraph 5.15., amend to read (inserting a new entry at the end):

"5.15. ....  
retro-reflective marking: white or yellow to the side;  
red to the rear. \*\*/

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\*\*/ Nothing in this Regulation shall preclude the Contracting Parties applying this Regulation from allowing the use of yellow line or contour markings to the rear in their territories."

Paragraph 5.22., amend to read:

"5.22. With the exception of retro-reflectors, a lamp even bearing an approval mark is deemed not to be present when it cannot be made to operate by the sole installation of a light source."

Insert a new paragraph 5.23., amend to read:

"5.23. Lamps shall be fitted in a vehicle in such a way that the light source can be correctly replaced according to the instructions of the vehicle manufacturer without the use of special tools, other than those provided with the vehicle by the manufacturer. This requirement is not applicable to:

(a) devices approved with a non-replaceable light source;

(b) devices approved with light sources according to Regulation No. 99."

Paragraph 5.23. (former), renumber as paragraph 5.24.

Paragraph 6.1.2., amend to read:

"6.1.2. Number

Two or four

For vehicles of the category N<sub>3</sub>:  
Two extra main-beam headlamps may be installed.

Where a vehicle is fitted with ...."

Paragraph 6.1.7.1., amend to read:

"6.1.7.1. The main-beam headlamps may be switched on either simultaneously or in pairs. In case the extra two main-beam headlamps are installed, as permitted under paragraph 6.1.2. for vehicles of the category N<sub>3</sub> only, no more than two pairs may be simultaneously lit. For changing over from the dipped to the main beam ...."

Paragraph 6.2.9., amend the last subparagraph to read (footnote 4/ not modified):

".....

Dipped-beam headlamps with a light source having an objective luminous flux which exceeds 2,000 lumen shall only be installed in conjunction with the installation of headlamp cleaning device(s) according to Regulation No. 45. 4/ In addition, with respect to vertical inclination, the provisions of paragraph 6.2.6.2.2. above shall not be applied."

Insert new paragraphs 6.21. to 6.21.3.2., to read:

"6.21. RETRO-REFLECTIVE MARKING BY MEANS OF SIDE AND REAR RETRO-REFLECTIVE LINES AND CONTOUR MARKINGS (Regulation No. 104)

6.21.1. Presence

Prohibited on vehicles of category M<sub>1</sub>.

Optional on vehicles of other categories (M<sub>2</sub>, M<sub>3</sub>, N<sub>1</sub>, N<sub>2</sub>, N<sub>3</sub>, O<sub>1</sub>, O<sub>2</sub>, O<sub>3</sub> and O<sub>4</sub>).

6.21.2. Arrangement

6.21.2.1. Retro-reflective marking materials installed on vehicles may be made up of an element or of several elements and must be mounted as close as possible to horizontally or vertically, compatible to the design and operation requirements of the vehicle.

6.21.2.2. The lower edge of the retro-reflective marking shall have a minimum height above the ground of at least 250 mm.

6.21.3. Position

6.21.3.1. The mounting of the markings should identify as close as possible the entire length and width (strips) or shape (contour markings) of the vehicle. "Entire" means at least 80 per cent of the length and/or width of a marked vehicle.

6.21.3.2. In case of non-continuous strips the distance between single elements should be as small as possible and should not exceed 50 per cent of the shortest element length."

Paragraph 12.11., should be deleted.

Paragraph 12.12., renumber as paragraph 12.11.

Insert new paragraphs 12.12. to 12.15., to read:

"12.12. As from the date of entry into force of Supplement 7 to the 02 series of amendments, no Contracting Party applying this Regulation shall refuse to grant approvals under this Regulation as amended by Supplement 7 to the 02 series of amendments.

12.13. As from 30 months after the date of entry into force of Supplement 7 to the 02 series of amendments, Contracting Parties applying this Regulation shall grant ECE approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by Supplement 7 to the 02 series of amendments.

- 12.14. Contracting Parties applying this Regulation shall not refuse to grant extensions of approvals to the preceding series of amendments to this Regulation, including Supplement 6 to the 02 series of amendments.
- 12.15. ECE approvals granted under this Regulation before the date mentioned in paragraph 12.13. above, including extensions of such approvals, shall remain valid indefinitely."
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