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Item 4.2.17 of the provisional agenda

1958 Agreement – Consideration of draft amendments to existing Regulation

Proposal for the 05 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)*

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its sixty-third session. It is based on ECE/TRANS/WP.29/2010/23 as amended by GRE-63-12/Rev.1. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration (ECE/TRANS/WP.29/GRE/63).

* 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 the performance of vehicles. The present document is submitted in conformity with that mandate.

Paragraph 4.2., amend to read:

- “4.2. An approval number shall be assigned to each type approved. Its first two digits (at present 05, corresponding to the 05 series of amendments) shall indicate the series of amendments incorporating the most recent major technical amendments made to the Regulation at the time of issue of the approval. The same Contracting Party shall not assign this number to another vehicle type or to the same vehicle type submitted with equipment not specified in the list referred to in paragraph 3.2.2. above, subject to the provisions of paragraph 7. of this Regulation.”

Insert a new paragraph 5.11.1.3., to read:

- “5.11.1.3. when light signalling system operates according to 6.2.7.6.2.”

Insert a new paragraph 6.1.7.1., to read:

- “6.1.7.1. Except when they are used to give intermittent luminous warnings at short intervals the main-beam headlamps may be switched ON, only when the master light switch is in headlamps ON position or in “AUTO” (automatic) position and the conditions for automatic activation of dipped beam exist. In the latter case, the main beam headlamps shall be switched off automatically when the conditions for automatic activation of dipped beam ceased to exist.”

Paragraphs 6.1.7.1. to 6.1.7.3. (former), renumber as paragraphs 6.1.7.2 to 6.1.7.4.

Paragraph 6.2.7., amend to read:

- “6.2.7. Electrical connections
- 6.2.7.1. The control for changing over to the dipped-beam shall switch off all main-beam headlamps simultaneously.
- 6.2.7.2. The dipped beam may remain switched on at the same time as the main beams.
- 6.2.7.3. In the case of dipped-beam headlamps according to Regulation No. 98, the gas-discharge light sources shall remain switched on during the main-beam operation.
- 6.2.7.4. One additional light source or one or more LED module(s), located inside the dipped-beam headlamps or in a lamp (except the main-beam headlamp) grouped or reciprocally incorporated with the respective dipped-beam headlamps, may be activated to produce bend lighting, provided that the horizontal radius of curvature of the trajectory of the centre of gravity of the vehicle is 500 m or less. This may be demonstrated by the manufacturer by calculation or by other means accepted by the authority responsible for type approval.
- 6.2.7.5. Dipped-beam headlamps may be switched ON or OFF automatically. However, it shall be always possible to switch these dipped-beam headlamps ON and OFF manually.”

Insert new paragraphs 6.2.7.6. to 6.2.7.7., to read:

- “6.2.7.6. If daytime running lamps are present and operate according to paragraph 6.19., either
- 6.2.7.6.1. the dipped-beam headlamps shall be switched ON and OFF automatically relative to the ambient light conditions (e.g. switch ON during nighttime

- driving conditions, tunnels, etc.) according to the requirements of Annex 12;
or
- 6.2.7.6.2. daytime running lamps operate in conjunction with the lamps listed in paragraph 5.11. where, as a minimum requirement, at least the rear position lamps shall be activated; or
 - 6.2.7.6.3. distinctive means are provided to inform the driver that the headlamps, position lamps and if so equipped end outline marker lamps and side marker lamps are not illuminated. Such means are:
 - 6.2.7.6.3.1. two distinctly different levels of instrument panel illumination intensity are provided during night and day, indicating to the driver that the dipped beam headlamps shall be switched ON; or
 - 6.2.7.6.3.2. non-illuminated indicators and identification of hand controls that are required by Regulation No. 121 to be illuminated when the headlamps are activated; or
 - 6.2.7.6.3.3. a tell-tale visual, auditory or both, shall be activated only in reduced ambient lighting conditions as defined in Annex 12 to inform the driver that the dipped beam headlamps should be switched ON. Once the tell-tale is activated, it shall only be extinguished when the dipped beam headlamps have been switched on or the device which starts and/or stops the engine (propulsion system) is set in a position which makes it impossible for the engine (propulsion system) to operate.
 - 6.2.7.7. Without prejudice to paragraph 6.2.7.6.1., the dipped-beam headlamps may switch ON and OFF automatically relative to other factors such as time or ambient conditions (e.g. time of the day, vehicle location, rain, fog, etc.).

Paragraph 6.19.7.4, amend to read:

- “6.19.7.4. The lamps referred to in paragraph 5.11. are not switched ON when the daytime running lamps are switched ON, except if daytime running lamps are operating according to paragraph 6.2.7.6.2.”

Insert new paragraphs 12.21. to 12.27., to read:

- “12.21. As from the official date of entry into force of the 05 series of amendments, no Contracting Party applying this Regulation shall refuse to grant approval under this Regulation as amended by the 05 series of amendments.
- 12.22. As from 48 months from the official date of entry into force of the 05 series of amendments, Contracting Parties applying this Regulation shall grant approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by the 05 series of amendments.
- 12.23. Contracting Parties applying this Regulation shall continue to grant approvals to those types of vehicles which comply with the requirements of this Regulation as amended by the preceding series of amendments during the 48 months' period which follows the date of entry into force of the 05 series of amendments.
- 12.24. No Contracting Party applying this Regulation shall refuse national or regional type approval of a vehicle type approved to the 05 series of amendments to this Regulation.
- 12.25. Until 48 months after the date of entry into force of the 05 series of amendments to this Regulation, no Contracting Party applying this

Regulation shall refuse national or regional type approval of a vehicle type approved to the preceding series of amendments to this Regulation.

- 12.26. Existing approvals under this Regulation before the date of entry into force of the 05 series of amendment to this Regulation shall remain valid indefinitely.
- 12.27. As from 66 months for new vehicles type of categories M1 and N1 and 84 months for new vehicles type of other categories after the official date of entry into force of the 05 series of amendments to this Regulation, Contracting Parties applying this Regulation shall grant approvals only if the new vehicle type to be approved meets the requirements of this Regulation as amended by the 05 series of amendments excluding paragraphs 6.2.7.6.2. and 6.2.7.6.3. Existing approvals under this Regulation before these dates will remain valid indefinitely and extension of the approvals shall be granted after.”

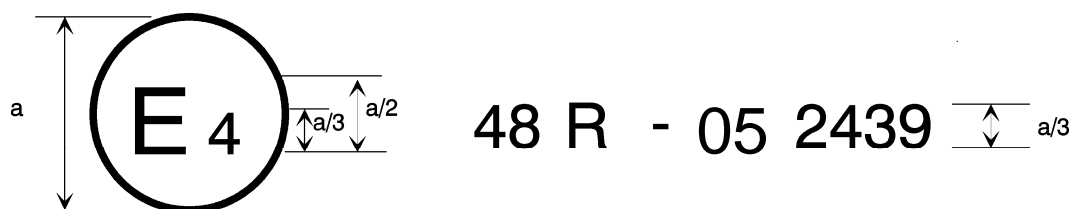
Annex 2, amend to read:

“Annex 2

Arrangements of Approval Marks

Model A

(See paragraph 4.4. of this Regulation)

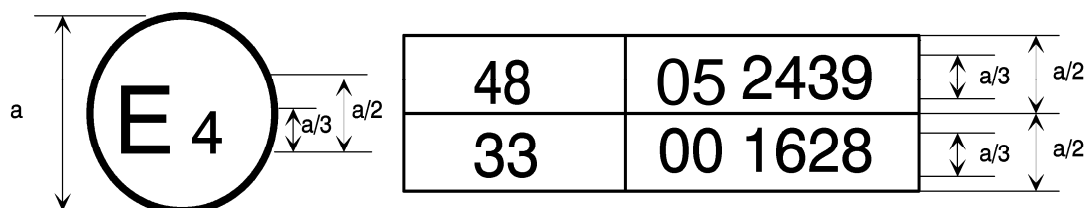


$a = 8 \text{ mm min.}$

The above approval mark affixed to a vehicle shows that the vehicle type concerned has, with regard to the installation of lighting and light-signalling devices, been approved in the Netherlands (E4) pursuant to Regulation No. 48 as amended by the 05 series of amendments. The approval number indicates that the approval was granted in accordance with the requirements of Regulation No. 48 as amended by the 05 series of amendments.

Model B

(See paragraph 4.5. of this Regulation)

 $a = 8 \text{ mm min.}$

The above approval mark affixed to a vehicle shows that the vehicle type concerned has been approved in the Netherlands (E4) pursuant to Regulation No. 48 as amended by the 05 series of amendments and Regulation No. 33. ^{1/} The approval number indicates that, at the dates when the respective approvals were given, Regulation No. 48 was amended by the 05 series of amendments and Regulation No. 33 was still in its original form.

^{1/} The second number is given merely as an example.”

Insert a new Annex 12, to read:

“Annex 12

<i>Automatic Switching Conditions Dipped-Beam Headlamps ^{1/}</i>		
Ambient light outside the vehicle ^{2/}	Dipped-beam headlamps	Response time
less than 1000 lux	ON	no more than 2 seconds
between 1000 lux and 7,000 lux	at manufacturer's discretion	at manufacturer's discretion
more than 7,000 lux	OFF	more than 5 seconds, but no more than 300 seconds

^{1/} Compliance with these conditions shall be demonstrated by the applicant, by simulation or other means of verification accepted by the authority responsible for type approval.

^{2/} The illuminance shall be measured on a horizontal surface, with a cosine corrected sensor on the same height as the mounting position of the sensor on the vehicle. This may be demonstrated by the manufacturer by sufficient documentation or by other means accepted by the authority responsible for type approval.