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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

#### Working Party on Lighting and Light-Signalling

##### Ninety-third session

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Item 6 (a) of the provisional agenda

##### Installation UN Regulations:

UN Regulation No. 48 (Installation of Lighting and Light-Signalling Devices)

## **Proposal for a new 10 series of amendments to UN Regulation No. 48 and for a new 02 series of amendments to UN Regulation No. 149**

### **Submitted by the expert from the International Organization of Motor Vehicle Manufacturers \***

The text reproduced below was prepared by the experts from the International Organization of Motor Vehicle Manufacturers (OICA) with the aim to add requirements for the implementation of a manufacturer logo in UN Regulation No. 149 for road illumination devices. The corresponding provision also needs to be included in UN Regulation No. 48. A further modification to UN Regulation No. 48 limiting the approval of light-signalling devices with logo to the 01 series guarantees that the limitations introduced with this series become mandatory. The modifications to the existing text of the UN Regulation are marked bold for new text or strikethrough for deleted characters.

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\* In accordance with the programme of work of the Inland Transport Committee for 2025 as outlined in proposed programme budget for 2025 (A/79/6 (Sect. 20), table 20.6), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

## I. Proposal

### A. Proposal for a new Series 10 of amendments to UN Regulation No. 48

*Paragraph 5.5.5., amend to read:*

"5.5.5. In case of ~~lamps~~**road illumination devices (UN Regulation No. 149) and light-signalling devices (UN Regulation No. 148)** incorporating a manufacturer logo, only two lateral logos (one on each side) or one central logo can be ~~fitted on~~**switched ON at** the rear of the vehicle and only two lateral logos (one on each side) or one central logo can be ~~fitted on~~**switched ON at** the front of the vehicle. All logos that are not vehicle manufacturer or body manufacturer logos are prohibited."

*Paragraph 5.30.1., amend to read:*

"5.30.1. ~~Especially in case of light signalling lamps incorporating a manufacturer logo, the lamp shall be type approved according to the requirements of the UN regulation No 148.~~

**Light-signalling devices incorporating a manufacturer logo shall be type approved according to the 01 or subsequent series of amendments to UN Regulation No 148."**

*Insert a new paragraph 5.30.2., to read:*

"5.30.2. **Road illumination devices incorporating a manufacturer logo shall be type approved according to the 02 or subsequent series of amendments to UN Regulation No 149."**

*Insert a new paragraph 12.9. and related subparagraphs, to read:*

"12.9. **Transitional provisions applicable to the 10 series of amendments.**

12.9.1. **As from the official date of entry into force of the 10 series of amendments, no Contracting Party applying this Regulation shall refuse to grant or refuse to accept type approvals under this Regulation as amended by the 10 series of amendments.**

12.9.2. **For vehicles of categories M, N<sub>1</sub>, O<sub>1</sub> and O<sub>2</sub>:**

12.9.2.1. **As from 1 September 2027, Contracting Parties applying this Regulation shall not be obliged to accept type approvals to any of the preceding series of amendments, first issued after 1 September Date 2027.**

12.9.2.2. **Until 1 September 2030, Contracting Parties applying this Regulation shall accept type approvals to the 08 or 09 series of amendments, first issued before 1 September 2027.**

12.9.2.3. **As from 1 September 2030, Contracting Parties applying this Regulation shall not be obliged to accept type approvals issued to any of the preceding series of amendments to this Regulation.**

12.9.2.4. **Notwithstanding the transitional provisions above, Contracting Parties who start to apply this Regulation after the date of entry into force of the most recent series of amendments are not obliged to accept type approvals which were granted in accordance with any of the preceding series of amendments to this Regulation / are only obliged to accept type approval granted in accordance with the 10 series of amendments.**

12.9.2.5. **Contracting Parties applying the UN Regulation shall continue to accept type approvals of, and to grant extensions of approvals to, the vehicles or the vehicle systems/equipment/parts to the 08 and 09 series of amendments to the UN Regulation which are not affected by the changes introduced by the 09 and 10 series of amendments.**

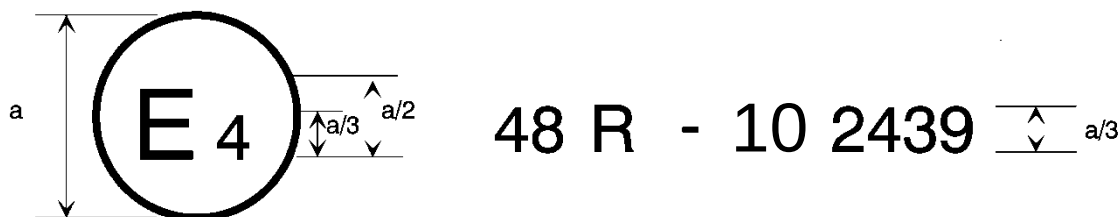
- 12.9.3. For vehicles of categories N<sub>2</sub>, N<sub>3</sub>, O<sub>3</sub> and O<sub>4</sub>:**
- 12.9.3.1. As from 1 September 2028, Contracting Parties applying this Regulation shall not be obliged to accept type approvals to any of the preceding series of amendments, first issued after 1 September Date 2028.**
- 12.9.3.2. Until 1 September 2031, Contracting Parties applying this Regulation shall accept type approvals to the 08 or 09 series of amendments, first issued before 1 September 2028.**
- 12.9.3.3. As from 1 September 2031, Contracting Parties applying this Regulation shall not be obliged to accept type approvals issued to any of the preceding series of amendments to this Regulation.**
- 12.9.3.4. Notwithstanding the transitional provisions above, Contracting Parties who start to apply this Regulation after the date of entry into force of the most recent series of amendments are not obliged to accept type approvals which were granted in accordance with any of the preceding series of amendments to this Regulation / are only obliged to accept type approval granted in accordance with the 10 series of amendments.**
- 12.9.3.5. Contracting Parties applying the UN Regulation shall continue to accept type approvals of, and to grant extensions of approvals to, the vehicles or the vehicle systems/equipment/parts to the 08 and 09 series of amendments to the UN Regulation which are not affected by the changes introduced by the 09 and 10 series of amendments.**
- 12.9.4. Contracting Parties applying this Regulation may grant type approvals according to any preceding series of amendments to this Regulation.**
- 12.9.5. Contracting Parties applying this Regulation shall continue to grant extensions of existing approvals to any preceding series of amendments to this Regulation."**

*Annex 2, amend to read:*

"Arrangements of approval marks

Model A

(See paragraph 4.4. of this Regulation)

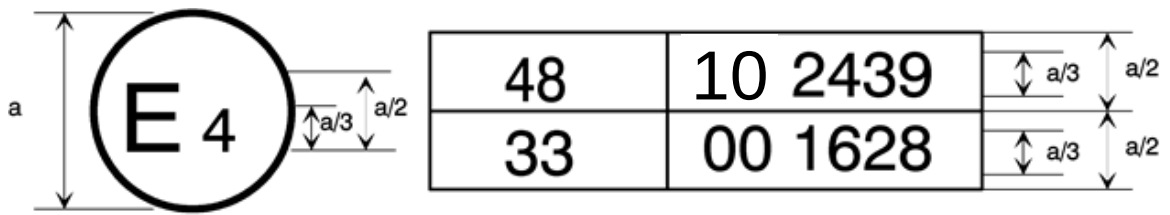


$a = 8 \text{ mm min.}$

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 (E 4) pursuant to UN Regulation No. 48 as amended by the **10** series of amendments. The approval number indicates that the approval was granted in accordance with the requirements of UN Regulation No. 48 as amended by the **10** 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 (E 4) pursuant to UN Regulation No. 48 as amended by the **10** series of amendments and UN Regulation No. 33.<sup>1</sup> The approval number indicates that, at the dates when the respective approvals were given, UN Regulation No. 48 was amended by the **10** series of amendments and UN Regulation No. 33 was still in its original form."

## B. Proposal for a new 02 series of amendments to UN Regulation No. 149

*Insert a new subparagraph 3.1.2.1. (g), to read:*

" ...

- (g) **In the case of a lamp that may incorporate a vehicle manufacturer logo, the vehicle manufacturer logo."**

*Insert a new subparagraph 3.1.2.2. (f), to read:*

" ...

- (f) **In the case of a lamp that may incorporate a vehicle manufacturer logo, the applicant shall confirm by a statement provided by the vehicle manufacturer that the vehicle manufacturer logo is the official appropriate one related to the brand name of the vehicle manufacturer or body manufacturer."**

*Insert a new paragraph 4.20. and related subparagraphs, to read:*

**"4.20. On request of the applicant, the internal structure of the optical components and/or the texture of the outer lens inside of the apparent surface of a lamp (function) may incorporate only one manufacturer logo build by transparent or non-transparent components provided that all requirements for the specific function of this Regulation are fulfilled and in addition the following conditions:**

- (a) **Irrespective of the marking requirements in paragraph 3.3., only the logo of the brand name of the vehicle manufacturer or the body manufacturer is allowed. This shall be confirmed by the applicant by a statement (see paragraph 3.1.2.2. (f)).**
- (b) **Size: the enclosed light emitting surface of the logo (incorporating transparent and non-transparent components of the logo) of such a lamp in the direction of the reference axis shall not exceed 100 cm<sup>2</sup>.**
- (c) **Symmetry: notwithstanding the requirements of paragraph 5.5.2. of UN Regulation No. 48, the logo light emitting surface (incorporating transparent and non-transparent components of the logo) does not have to be symmetrical by itself.**
- (d) **The intensity of the light distributed from the enclosed light emitting surface of the manufacturer logo must not exceed 140 cd."**

*Insert a new paragraph 7.3. and related subparagraphs, to read:*

**"7.3. For the 02 series of amendments**

- 7.3.1. As from the official date of entry into force of the 02 series of amendments, no Contracting Party applying this Regulation shall refuse to grant or refuse to accept UN type approvals under this Regulation as amended by the 02 series of amendments.
- 7.3.2. As from 1 September 2026 Contracting Parties applying this Regulation shall not be obliged to accept UN type approvals to any of the preceding series of amendments, first issued after 1 September 2026.
- 7.3.3. Contracting Parties applying this Regulation shall continue to accept type approvals to the 00 and 01 series of amendments to this Regulation, first issued before 1 September 2026.
- 7.3.4. Notwithstanding the provisions in 7.3.2. and 7.3.3. and irrespective of the marking requirements in 3.3., as from the official date of entry into force of the 02 series Contracting Parties applying this Regulation shall not be obliged to accept UN type approvals to any preceding series of amendments, for devices that include a manufacturer logo.
- 7.3.5. Notwithstanding paragraphs 7.3.2. and 7.3.3., Contracting Parties applying this Regulation shall continue to accept type approvals of the equipment or parts issued according to the 00 and 01 series of amendments to this Regulation which are not affected by the 02 series of amendments.
- 7.3.6. Contracting Parties applying this Regulation shall continue to grant and accept type approvals for devices (equipment and parts) on the basis of any previous series of amendments, provided that the devices (equipment and parts) are intended as replacements for fitting to vehicles in use and that it is not technically feasible for the devices (equipment and parts) in question to satisfy the new requirements contained in this Regulation as amended by the 02 series of amendments.
- 7.3.7. Notwithstanding the transitional provisions above, Contracting Parties whose application of this Regulation comes into force after the date of entry into force of the 02 series of amendments are not obliged to accept UN type approvals which were granted in accordance with any of the preceding series of amendments to this Regulation / are only obliged to accept type approval granted in accordance with the 02 series of amendments.
- 7.3.8. Contracting Parties applying this Regulation may grant type approvals according to any of the previous series of amendments to this Regulation.
- 7.3.9. Contracting Parties applying this Regulation shall continue to grant extensions of existing approvals to any of the previous series of amendments to this Regulation."

## II. Justification

### *General*

1. OICA remains unconvinced that the contracting parties' intention to limit the use of manufacturer logos sufficiently justifies a complete prohibition in road illumination devices. The visual performance of illuminated logos—when designed with identical optical properties—does not depend on the administrative context of type approval.
2. Accordingly, this document proposes an alternative to the outright ban. It introduces specific requirements for manufacturer logos in road illumination devices under UN Regulation No. 149, aligned with those already established for light-signalling devices under UN Regulation No. 148.

3. In addition to the existing restrictions in UN Regulation No. 148, this proposal introduces a maximum luminous intensity for logos in road illumination devices, equivalent to that permitted for front position lamps. This threshold is appropriate, as road illumination devices are white front-facing lamps that may operate concurrently with front position lamps.

4. To ensure consistency and avoid cumulative visual impact, the total number of illuminated logos permitted on a vehicle at any one time remains unchanged. That is, a logo may be active either in a road illumination device or a light-signalling device, but not simultaneously in both. Consequently, when a road illumination device substitutes for a front position lamp in accordance with paragraph 5.12.1. of UN Regulation No. 48, the presence of a logo is permissible.

5. These provisions ensure that the visual effect of a manufacturer logo in a road illumination device is equivalent to that in a light-signalling device, thereby maintaining safety and regulatory coherence.

6. The proposed changes to UN Regulations Nos. 48 and 149 are submitted in the form of a series of amendments, as they introduce stricter requirements consistent with the treaty's procedural framework.

*Changes related to UN Regulation No. 48*

7. The change to paragraph 5.5.5. limits the use of illuminated logos to road illumination devices and light signalling devices in performance-oriented terms and defines the number of cumulative logos switched ON at the same time.

8. Paragraph 5.30.1. limits the use of manufacturer logos to regulated logos to the 01 series of UN Regulation No. 148.

9. Paragraph 5.30.2. limits the use of manufacturer logos to the newly defined 02 series of UN Regulation No. 149. Therefore, contracting parties may refuse to accept road illumination devices with non-regulated logos type approved to the 00 and 01 series of amendments of regulation No. 149.

10. The transitional provisions shall ensure that the provisions for systems without a manufacturer logo in road illumination devices do not change in relation to the 09 series of amendments. This is the majority of, if not all cases, and the implementation of regulatory requirements on logos in road illumination devices shall not introduce an administrative burden to them.

11. The transitional provisions shall further ensure that contracting parties need not accept or grant approval for systems including illuminated logos other than the restricted logos in light signalling devices type approved to the 01 series of amendments to UN Regulation No. 148 and in road illumination devices approved to the 02 series of amendments to UN Regulation No. 149 after the date of enforcement of the 10 series of amendments to UN Regulation No. 48.

12. Annex 2 modifies the marking series 09 to series 10.

*Changes related to UN Regulation No. 149*

13. Paragraph 3.1.2.1. (g) introduces the same requirements in UN Regulation No. 149 that was prescribed in UN Regulation No. 148 for manufacturer logos.

14. Paragraph 3.1.2.2. (f) introduces the same requirements in UN Regulation No. 149 that was prescribed in UN regulation No 148 for manufacturer logos.

15. Paragraph 4.5.4. and subparagraphs are introduced to regulate manufacturers logos in road illumination devices in identical terms as for light signalling devices. The only difference to the 01 series of amendments of UN Regulation No. 148 is subparagraph (d) that introduces a maximum intensity for manufacturer logos in road illumination devices, while the same subparagraph (d) in UN Regulation No. 148 restricts the use of logos in certain types of light signalling devices.

16. The transitional provisions should ensure that the transitional provisions for road illumination devices without a manufacturer logo do not change in relation to the 01 series of amendments to UN Regulation No. 149.

17. The transitional provisions should further ensure that contracting parties need not accept or grant approval for road illumination devices including a manufacturer logo that do not follow the restrictions introduced with this new series of amendments after the official date of enforcement of the 02 series of amendments to UN Regulation No. 149.

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