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World Forum for Harmonization of Vehicle Regulations**Working Party on Lighting and Light-Signalling****Eighty-ninth session**

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Item 9 of the provisional agenda

Other UN Regulations**Proposal for Supplement [13] to the 01 series of amendments
to UN Regulation No. 45****Submitted by the experts from the International Automotive Lighting
and Light-Signalling Expert Group ***

The text reproduced below was prepared by the experts from the International Automotive Lighting and Light-Signalling Expert Group (GTB) with the aim to integrate all passing-beams (adaptive front-lighting systems (AFS) or not) of UN Regulation No. 149 series 00 and 01 and to make some corrections. The proposed modifications to the current text of the UN Regulations are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2023 as outlined in proposed programme budget for 2023 (A/77/6 (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.



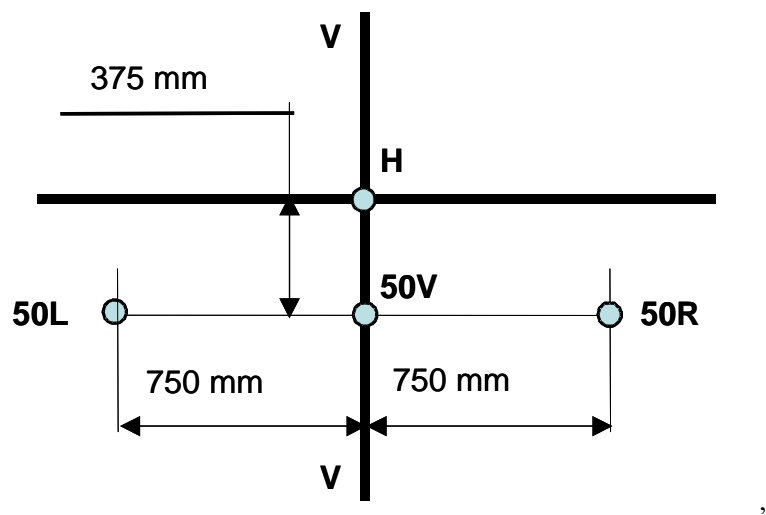
I. Proposal

Paragraph 7.1., amend to read:

- “7.1. The efficiency of the cleaner shall be tested in accordance with the requirements of Annex 4 to this Regulation. The cleaning efficiency at the points on the measuring screen which are specified below shall, after every cleaning period, amount to at least 70 per cent for the principal passing beam lamp and also 70 per cent for the optional driving lamp; in case of an AFS this provision applies to the photometric test procedures as defined in Annex 9 to UN Regulation No. 123 or in Annex 4 to UN Regulation No. 149 from those lighting units in the neutral state indicated in paragraph 6.1.1. above. In the case of a headlamp (UN Regulations Nos. 98, or 112 or classes A, B or D of UN Regulation No. 149) providing bend lighting, the headlamp shall be set for the test in a straightforward direction.

Figure

Diagram of Measuring Points on a Screen



Paragraph 7.3.1., amend to read:

- “7.3.1. Headlamps approved in respect of the passing beam only (~~marking C or HC or XC/V/E/W/T in the approval mark~~);
Measuring points: 50R (L)⁴ and 50V.⁴”

Paragraph 7.3.2., amend to read:

- “7.3.2. Headlamps approved in respect of the passing beam and the driving beam (~~marking CR, HCR, C+R, C+HR, HC+R or HC+HR or XC/V/E/W/R/T~~).
Measuring points; 50R (L) (~~and 50V, if in the same headlamps, different optical systems for the driving beam and the passing beam are provided.~~”

Footnote 4, amend to read:

- “⁴ R refers to right-hand driving traffic.
L refers to left-hand driving traffic.”

II. Justification

1. In order to minimise the future changes and to correct the missing references to the latest series of amendments to UN Regulation No. 149 in paragraphs 7.3.1. and 7.3.2., this

proposal intends to remove the list of the classes concerned in paragraph 7.1. and to refer, in a more general way, only to passing-beams and driving-beams in paragraphs 7.3.1. and 7.3.2.

2. This proposal also corrects a misplacement of the footnote 4 in paragraph 7.3.1. The footnote shall apply to the point 50R (L) only. Moreover, the wording of footnote 4 is also corrected and aligned with UN Regulations Nos. 48 and 149.
