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World Forum for Harmonization of Vehicle Regulations

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Item 4.9.10 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing UN Regulations submitted by GRE

Proposal for Supplement 12 to UN Regulation No. 65 (Special warning lamps)

Submitted by the Working Party on Lighting and Light-Signalling*

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its eighty-seventh session (ECE/TRANS/WP.29/GRE/87, para. 33). It is based on ECE/TRANS/WP.29/GRE/2022/16. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their March 2023 sessions.

* 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.

Table of content, Annexes, add a reference to a new Annex 9:

"9 Test for the base mounting of magnetically attached special warning lamps"

Add a new paragraph 5.10. to read:

5.10. In case of a magnetic attachment the special warning lamp shall be exposed to the test described in Annex 9 to this regulation. During the test the magnetic base mounting shall not move by more than 200 mm from the original position.¹"

Insert footnote 1 to paragraph 5.10. to read:

1 The manufacturer shall inform the user, that an attachment is only possible for a roof of adequate steel or a steel mounting plate.

Insert a new Annex 9 to read:

"Annex 9

Test for the base mounting of magnetically attached special warning lamps

The tests shall be performed at $23^{\circ}\text{C} \pm 5^{\circ}$ ambient temperature on a metal surface of sufficient size and the following specifications:

- type of metal: steel with a nominal yield strength of $180 \text{ N/mm}^2 - 240 \text{ N/mm}^2$;
- thickness of metal surface: $0,7 + 0,1 - 0 \text{ mm}$;
- radius of curvature: $\leq 5000 \text{ mm}$;
- paint thickness: $120 \pm 20 \mu\text{m}$;
- paint protection: Polyurethane film;
- paint protection thickness: $\geq 200 \mu\text{m}$ including glue.
- the metal surface must be $>20\text{mm}$ above any other ferrous or magnetic material.

Figure 1

Metal surface with paint and paint protection film



The special warning lamp shall be magnetically attached to the flat metal surface and subjected to a single shock pulse with a minimum acceleration of 16 g during 30 ms.

The direction of the acceleration shall be in horizontal direction."