

22 November 2023

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## Agreement

### **Concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations\***

(Revision 3, including the amendments which entered into force on 14 September 2017)

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#### **Addendum 64 – UN Regulation No. 65**

#### **Revision 2 - Amendment 5**

Supplement 12 to the original version of the Regulation – Date of entry into force:  
24 September 2023

#### **Uniform provisions concerning the approval of special warning lamps for power-driven vehicles and their trailers**

This document is meant purely as documentation tool. The authentic and legal binding texts is:  
ECE/TRANS/WP.29/2023/34.



**UNITED NATIONS**

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\* Former titles of the Agreement:

Agreement concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958 (original version);  
Agreement concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions, done at Geneva on 5 October 1995 (Revision 2).



*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.<sup>1</sup>"

*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."