

11 July 2016

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## **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\***

(Revision 2, including the amendments which entered into force on 16 October 1995)

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#### **Addendum 45 – Regulation No. 46**

#### **Revision 6**

Supplement 2 to the 04 series of amendments – Date of entry into force: 18 June 2016

#### **Uniform provisions concerning the approval of devices for indirect vision and of motor vehicles with regard to the installation of these devices**

This document is meant purely as documentation tool. The authentic and legal binding text is: ECE/TRANS/WP.29/2015/84.



**UNITED NATIONS**

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\* Former title 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.



## Regulation No. 46

### Uniform provisions concerning the approval of devices for indirect vision and of motor vehicles with regard to the installation of these devices

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## 1. Scope

- 1.1. This Regulation applies:
- (a) To compulsory and optional devices for indirect vision, set out in the table under paragraph 15.2.1.1.1. of this Regulation for vehicles of category M and N<sup>1</sup> and to compulsory and optional devices for indirect vision mentioned in paragraphs 15.2.1.1.3. and 15.2.1.1.4. of this Regulation for vehicles of category L<sup>1</sup> with bodywork at least partly enclosing the driver;
  - (b) To the installation of devices for indirect visions on vehicles of categories M and N and on vehicles of category L<sup>1</sup> with bodywork at least partly enclosing the driver.
- 1.2. This Regulation does not apply to devices other than those prescribed under paragraph 1.1.(a) and their installation, for observing the vision area(s) immediately adjacent to the front and/or the passenger's side of vehicles of category M<sub>1</sub>, M<sub>2</sub>, M<sub>3</sub>, N<sub>1</sub> and N<sub>2</sub> ≤ 7.5 t.

## I. Devices for indirect vision

## 2. Definitions

For the purposes of this Regulation:

- 2.1. "*Devices for indirect vision*" means devices intended to give a clear view of the rear, side or front of the vehicle within the fields of vision defined in paragraph 15.2.4. These can be conventional mirrors, camera-monitors or other devices able to present information about the indirect field of vision to the driver.
- 2.1.1. "*Mirror*" means any device, excluding devices such as periscopes, intended to give a clear view to the rear, side or front of the vehicle within the fields of vision defined in paragraph 15.2.4. by means of a reflective surface.
- 2.1.1.1. "*Interior mirror*" means a device as defined in paragraph 2.1.1. above, which can be fitted in the passenger compartment of a vehicle.
- 2.1.1.2. "*Exterior mirror*" means a device as defined in paragraph 2.1.1. above, which can be mounted on the external surface of a vehicle.
- 2.1.1.3. "*Surveillance mirror*" means a mirror other than the ones defined in paragraph 2.1.1. above which can be fitted to the inside or outside of the vehicle in order to provide fields of vision other than those specified in paragraph 15.2.4. of this Regulation.
- 2.1.1.4. "*r*" means the average of the radii of curvature measured over the reflecting surface, in accordance with the method described in Annex 7.
- 2.1.1.5. "*The principal radii of curvature at one point on the reflecting surface (r<sub>i</sub>)*" means the values obtained with the apparatus defined in Annex 7, measured on

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<sup>1</sup> As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.), document ECE/TRANS/WP.29/78/Rev.4. - [www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html](http://www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html)

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