

27 November 2013

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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 47: Regulation No. 48**

### **Revision 8 – Amendment 2**

Supplement 4 to the 05 series of amendments - Date of entry into force: 3 November 2013

### **Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signalling devices**



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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.

*Paragraph 6.1.7.3.*, amend to read:

"6.1.7.3. It shall always be possible to switch the main-beam headlamps ON and OFF manually and to manually switch OFF the automatic control of the main-beam headlamps.

Moreover, the switching OFF, of the main-beam headlamps and of their automatic control, shall be by means of a simple and immediate manual operation; the use of sub-menus is not allowed."

*Paragraph 6.1.9.3.1.1.*, amend to read:

"6.1.9.3.1.1. The boundaries of the minimum fields in which the sensor is able to detect light emitted from other vehicles defined in paragraph 6.1.7.1. above are defined by the angles indicated below."

*Paragraph 6.1.9.3.1.2.*, amend to read:

"6.1.9.3.1.2. The sensor system shall be able to detect on a straight level road:

- (a) An oncoming power driven vehicle at a distance extending to at least 400 m;
- (b) A preceding power driven vehicle or a vehicle-trailers combination at a distance extending to at least 100 m;
- (c) An oncoming bicycle at a distance extending to at least 75 m, its illumination represented by a white lamp with a luminous intensity of 150 cd with a light emitting area of  $10 \text{ cm}^2 \pm 3 \text{ cm}^2$  and a height above a ground of 0.8 m.

To verify compliance with (a) and (b) above, the oncoming and preceding power driven vehicle (or vehicle-trailer combination) shall have position lamps (if applicable) and dipped-beam headlamps switched ON."

*Paragraph 6.2.5.*, amend to read:

"6.2.5. Geometric visibility

Defined by angles  $\alpha$  and  $\beta$  as specified in paragraph 2.13.:

$\alpha = 15^\circ$  upwards and  $10^\circ$  downwards,

$\beta = 45^\circ$  outwards and  $10^\circ$  inwards.

The presence of partitions or other items of equipment near the headlamp shall not give rise to secondary effects causing discomfort to other road users."

*Paragraph 6.3.5.*, amend to read (footnote 13 remains unchanged):

"6.3.5. Geometric visibility

Defined by angles  $\alpha$  and  $\beta$  as specified in paragraph 2.13.,

$\alpha = 5^\circ$  upwards and downwards,

$\beta = 45^\circ$  outwards and  $10^\circ$  inwards.

The presence of partition or other item of equipment near the front fog lamp shall not give rise to secondary effects causing discomfort to other road users.<sup>13"</sup>

*Paragraph 6.22.7.1.3.*, amend to read:

"6.22.7.1.3. It shall always be possible to switch the main-beam headlamps, adaptive or non-adaptive, ON and OFF manually and to manually switch OFF the automatic control.

Moreover, the switching OFF, of the main-beam headlamps and of their automatic control, shall be by means of a simple and immediate manual operation; the use of sub-menus is not allowed."

*Paragraph 6.22.9.3.1.1.*, amend to read:

"6.22.9.3.1.1. The boundaries of the minimum fields in which the sensor is able to detect light emitted from other vehicles as defined in paragraph 6.22.7.1.2. above are given by the angles indicated in paragraph 6.1.9.3.1.1. of this Regulation."

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