

15 August 2012

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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 6 – Amendment 7**

Supplement 8 to the 04 series of amendments - Date of entry into force: 26 July 2012

### **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 2.7.1.1.3., amend to read:*

"2.7.1.1.3. "Light source module" means an optical part of a device which is specific to that device. It contains one or more non-replaceable light sources and it may optionally contain one or more holders for approved replaceable light sources;"

*Paragraph 2.7.1.1.7., amend to read:*

"2.7.1.1.7. "LED module" means a light source module containing as light sources only LEDs. However it may optionally contain one or more holders for approved replaceable light sources;"

*Paragraph 2.7.1.2., amend to read:*

"2.7.1.2. "Electronic light source control gear" means one or more components between supply and light source, whether or not integrated with the light source or the applied lamp, to control voltage and/ or electrical current of the light source;"

*Paragraph 2.7.1.2.1., amend to read:*

"2.7.1.2.1. "Ballast" means an electronic light source control gear between supply and light source, whether or not integrated with the light source or applied lamp, to stabilise the electrical current of a gas-discharge light source;"

*Paragraph 2.7.27., correct to read:*

"2.7.27. "Objective luminous flux" means:

(a) In the case of a light source:

The value of the objective luminous flux, not including any tolerances, as indicated in the relevant data sheet of the applicable light source Regulation according to which the light source is approved;

(b) In the case of an LED module:

The value of the objective luminous flux as indicated in the technical specification submitted with the LED module for approval of the lamp of which the LED module is a part;" *Paragraph 5.23., amend to read:*

*Paragraph 5.23., amend to read:*

"5.23. Lamps approved with light source(s) according to Regulation No. 37 shall be fitted in a vehicle in such a way that the light source can be correctly replaced without the need for expert assistance and without the need for special tools, other than those provided with the vehicle by the manufacturer. The vehicle manufacturer shall provide with the vehicle a detailed description of the procedure for replacement."

*Insert a new paragraph 5.23.1., to read:*

"5.23.1. In the case where a light source module includes a holder for an approved replaceable light source according to Regulation No. 37, this light source shall be replaceable as required above."

*Insert new paragraphs 5.29. and 5.29.1., to read:*

"5.29. A light source module shall be:

(a) Only removable from its device with the use of tools and

- (b) So designed that regardless of the use of tool(s), it is not mechanically interchangeable with any replaceable approved light source.

5.29.1. A LED module does not need to be replaceable, if so stated in the communication sheet of the component type approval."

*Paragraph 6.2.9.*, amend to read:

"6.2.9. Other requirements

The requirements of paragraph 5.5.2. shall not apply to dipped-beam headlamps.

Dipped-beam headlamps with a light source or LED module( s) producing the principal dipped beam and having a total objective luminous flux which exceeds 2,000 lumen shall only be installed in conjunction with the installation of headlamp cleaning device( s) according to Regulation No. 45<sup>11</sup>.

With respect to vertical inclination the provisions of paragraph 6.2.6.2.2. above shall not be applied for dipped-beam headlamps:

- (a) With LED module(s) producing the principal dipped beam, or
- (b) With a light source producing the principal dipped beam and having an objective luminous flux which exceeds 2,000 lumens.

In the case of filament lamps for which more than one test voltage is specified, the objective luminous flux which produces the principal dipped beam, as indicated in the communication form for the type approval of the device, is applied.

In the case of dipped-beam headlamps equipped with an approved light source, the applicable objective luminous flux is the value at the relevant test voltage as given in the relevant data sheet in the Regulation, according to which the applied light source was approved, without taking into account the tolerances to the objective luminous flux specified on this datasheet.

Only dipped-beam headlamps according to Regulation Nos. 98 or 112 may be used to produce bend lighting.

If bend lighting is produced by a horizontal movement of the whole beam or the kink of the elbow of the cut-off, it shall be activated only if the vehicle is in forward motion; this shall not apply if bend lighting is produced for a right turn in right hand traffic (left turn in left hand traffic)."

*Paragraph 6.3.2.*, amend to read:

"6.3.2. Number

Two; complying with the requirements of the 03 and subsequent series of amendments to Regulation No. 19."

*Paragraph 6.11.4.2.*, amend to read:

"6.11.4.2. In height: not less than 250 mm nor more than 1,000 mm above the ground. For rear fog lamps grouped with any rear lamp or for category N<sub>3</sub>G (off-road) vehicles, the maximum height may be increased to 1,200 mm."