

6 August 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 90 – Regulation No. 91**

#### **Revision 2 - Amendment 4**

Supplement 14 to the original version of the Regulation – Date of entry into force: 15 July 2013

#### **Uniform provisions concerning the approval of side-marker lamps for motor vehicles and their trailers**



**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.

*Paragraph 2.3.*, amend to read:

"2.3. "Side-marker lamps of different types" means lamps which differ in such essential respects as:

- (a) The trade name or mark;
- (b) The characteristics of the optical system, (levels of intensity, light distribution angles, category of light source, light source module, etc.);

A change of the colour of the light source or the colour of any filter does not constitute a change of type."

*Paragraph 2.4.*, amend to read:

"2.4. References made ... for type approval.

References made in this Regulation to standard (étalon) LED light source(s) and to Regulation No. 128 shall refer to Regulation No. 128 and its series of amendments in force at the time of application for type approval."

*Paragraph 3.2.2.*, amend to read:

"3.2.2. A brief ... sources:

- (a) The category ...; and/or
- (b) The category or categories of LED light source(s) prescribed; this LED light source category shall be one of those contained in Regulation No. 128 and its series of amendments in force at the time of application for type approval; and/or
- (c) The light source module..."

*Paragraph 4.3.*, amend to read:

"4.3. With the ... indicating:

- (a) The category or categories of light source(s) prescribed; and/or
- (b) The light source module specific identification code"

*Paragraphs 6.4. to 6.4.3.*, amend to read:

"6.4. In the case of replaceable light source(s):

6.4.1. Any category or categories of light source(s) approved according to Regulation No. 37 and/or regulation No. 128 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval or in Regulation No. 128 and its series of amendments in force at the time of application for type approval.

6.4.2. The design of the device shall be such that the light source can be fixed in no other position but the correct one.

6.4.3. The light source holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of light source used, applies."

Paragraphs 9.1. to 9.1.4., amend to read (footnote 1 remains unchanged) :

- "9.1. All measurements, photometric and colorimetric shall be carried out with an uncoloured or coloured standard light source of the category prescribed for the device, supplied with the voltage:
- (a) In the case of filament lamps, that is necessary to produce the reference luminous flux required for that category of filament lamp;
  - (b) In the case of LED light sources of 6.75 V or 13.5 V; the luminous flux value produced shall be corrected. The correction factor is the ratio between the objective luminous flux and the mean value of the luminous flux found at the voltage applied.
  - (c) In the case of lamps with non-replaceable light sources: 6.75 V and 13.5 V respectively.
  - (d) In the case of a system that uses an electronic light source control gear being part of the lamp<sup>1</sup> applying at the input terminals of the lamp the voltage declared by the manufacturer or, if not indicated, 6.75 V, 13.5 V or 28.0 V, respectively.
  - (e) In the case of a system that uses an electronic light source control gear not being part of the lamp, the voltage declared by the manufacturer shall be applied to the input terminals of the lamp.

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<sup>1</sup> For the purpose of this Regulation..."

Annex 2,

Item 9, amend to read:

"9. ...  
Number and category(ies) of light source(s): ....."  
..."

Annex 4,

Paragraph 3.2., amend to read:

"3.2. For replaceable light sources:  
  
When equipped with light sources at 6.75 V, 13.5 V or 28.0 V, the luminous intensity values produced shall be corrected. For filament lamps the correction factor is the ratio between the reference luminous flux and the mean value of the luminous flux found at the voltage applied (6.75 V, 13.5 V or 28.0 V).  
  
For LED light sources the correction factor is the ratio between the objective luminous flux and the mean value of the luminous flux found at the voltage applied (6.75 V, 13.5 V or 28.0 V).  
  
The actual luminous fluxes of each light source used shall not deviate more than  $\pm 5$  per cent from the mean value. Alternatively and in case of filament lamps only, a standard filament lamp may be used in turn, in each of the individual positions, operated at its reference flux, the individual measurements in each position being added together."

*Annex 5,*

*Paragraph 1.2.,* amend to read:

"1.2. With respect ... a standard light source, or when ... "

*Paragraph 1.2.2.,* amend to read:

"1.2.2. If, in the case ... standard light source."

*Paragraph 1.3.,* amend to read:

"1.3. The chromaticity ... standard light source, or for lamps equipped ..."

*Annex 6,*

*Paragraph 1.2.,* amend to read:

"1.2. With respect ... standard light source, or when ...:

*Paragraph 1.2.2.,* amend to read:

"1.2.2. If, in the case ... standard light source."

*Paragraph 1.3.,* amend to read:

"1.3. The chromaticity ... standard light source, or for side-maker ..."

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