

7 December 2017

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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 76 – UN Regulation No. 77**

#### **Revision 3 - Amendment 1**

Supplement 17 to the original version of the Regulation – Date of entry into force: 10 October 2017

#### **Uniform provisions concerning the approval of parking lamps for power-driven vehicles**

This document is meant purely as documentation tool. The authentic and legal binding texts is: ECE/TRANS/WP.29/2017/32 (1622399).



**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).

*Paragraph 2.3.*, amend to read:

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

- (a) The trade name or mark:
  - (i) Lamps bearing the same trade name or mark but produced by different manufacturers shall be considered as being of different types;
  - (ii) Lamps produced by the same manufacturer differing only by the trade name or mark shall be considered as being of the same type.
- (b) The characteristics ..."

*Insert a new paragraph 3.2.4.*, to read:

"3.2.4. In the case of a type of lamp differing only by the trade name or mark from a type that has already been approved it shall be sufficient to submit:

3.2.4.1. A declaration by the lamp manufacturer that the type submitted is identical (except in the trade name or mark) with and has been produced by the same manufacturer as, the type already approved, the latter being identified by its approval code;

3.2.4.2. Two samples bearing the new trade name or mark or equivalent documentation."

*Insert a new paragraph 3.2.5.*, to read:

"3.2.5. In the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the documents according to paragraph 6.5. of this Regulation."

*Paragraph 4.1.3.*, amend to read:

"4.1.3. In the case of lamps with non-replaceable light sources or light source module(s), the marking of the rated voltage or range of voltage."

*Paragraph 4.3.3.*, amend to read:

"4.3.3. The marking of the rated voltage or range of voltage."

*Paragraph 6.*, amend to read:

## **"6. General specifications**

The requirements contained in sections 5. "General specifications" and 6. "Individual specifications" and in the Annexes referenced in the said sections of Regulations Nos. 48 or 86, and their series of amendments in force at the time of application for the lamp type approval shall apply to this Regulation.

The requirements pertinent to each lamp and to the category/ies of vehicle on which the lamp is intended to be installed shall be applied, where its verification at the moment of lamp type approval is feasible.

6.1. ..."

*Insert a new paragraph 6.5., to read:*

- "6.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall annex to the type approval documentation a report (by the light source manufacturer indicated in the type approval documentation), acceptable to the Type Approval Authority, that demonstrates compliance of these non-replaceable filament lamp(s) with the requirements as specified in paragraph 4.11. of IEC 60809, Edition 3."

*Paragraph 7.1.3., amend to read:*

- "7.1.3. In the case of a single lamp containing more than one light source when all light sources are illuminated the maximum intensities shall not be exceeded."

*Insert a new paragraph 7.1.4., to read:*

- "7.1.4. Failure of a single lamp containing more than one light source:
- 7.1.4.1. In a single lamp containing more than one light source, a group of light sources, wired so that the failure of any one of them causes all of them to stop emitting light, shall be considered to be one light source.
- 7.1.4.2. In case of failure of any one light source in a single lamp containing more than one light source, at least one of the following provisions shall apply:
- (a) The light intensity complies with the minimum intensity required in the table of standard light distribution in space as shown in Annex 4; or
  - (b) A signal for activation of a tell-tale indicating failure, as indicated in paragraph 6.12.8. of UN Regulation No. 48, is produced, provided that the luminous intensity in the axis of reference is at least 50 per cent of the minimum intensity required. In this case a note in the communication form states that the lamp is only for use on a vehicle fitted with a tell-tale indicating failure."

*Paragraph 12.1., amend to read:*

- "12.1. Parking lamps shall be so manufactured as to conform to the type approved under this Regulation.
- The compliance with the requirements set forth in paragraphs 7. and 9. above shall be verified as follows:"

*Paragraph 12.2. (former), renumber as paragraph 12.1.1.*

*Paragraph 12.3. (former), renumber as paragraph 12.1.2.*

*Paragraph 12.4. (former), renumber as paragraph 12.2.*

*Insert a new paragraph 12.3, to read:*

- "12.3. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, a report (by the light source manufacturer indicated in the type approval documentation) shall demonstrate compliance of these non-replaceable filament lamp(s) with lifetime requirements and, in the case of colour coated filament lamps, also with colour endurance requirements, as specified in paragraph 4.11. of IEC 60809, Edition 3."

Annex 1, item 9, amend to read:

- "9. Concise description:  
Colour of light emitted: ..... red / white /amber<sup>2</sup>  
Number and category(ies) of light source(s): .....  
Light source module: ..... Yes/No<sup>2</sup>  
Light source module specific identification code: .....  
Geometrical conditions of installation and relating variations, if any: .....  
Application of an electronic light source control gear/variable intensity control:  
(a) Being part of the lamp: ..... Yes/No/Not applicable<sup>2</sup>  
(b) Being not part of the lamp: ..... Yes/No/Not applicable<sup>2</sup>  
Input voltage(s) supplied by an electronic light source control gear/variable intensity control: .....  
Electronic light source control gear/variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body): .....  
The lamp is only for use on a vehicle fitted with a tell-tale indicating failure: yes/no<sup>2</sup> "

Annex 5

Paragraphs 1.2. to 1.3., amend to read:

- "1.2. With respect to photometric performances, the conformity of mass-produced lamps shall not be contested if, when testing according to paragraph 8. of this Regulation, the photometric performances as set forth in paragraph 7. of this Regulation of any lamp chosen at random and equipped with a standard light source, or when the lamps are equipped with non-replaceable light sources (filament lamps or other), and when all measurements are made at 6.75 V, 13.5 V or 28.0 V respectively:

- 1.2.1. No measured value deviates unfavourably by more than 20 per cent from the values prescribed in this Regulation.

For the minimum values required throughout the fields specified in Annex 3 the respective maximum deviations of the measured values shall correspond to the values shown in the table below:

<i>Required minimum value</i>	<i>Equivalent 20 per cent</i>	<i>Equivalent 30 per cent</i>
<i>cd</i>	<i>cd</i>	<i>cd</i>
0.05	0.02	0.03

- 1.2.2. In the case of a lamp equipped with a replaceable light source, if results of the test described above do not meet the requirements, tests on lamps shall be repeated using another standard light source.

- 1.3. The chromaticity coordinates shall be complied with when the lamp is equipped with a standard light source, or for lamps equipped with non-replaceable light sources (filament lamps or other), when the colorimetric characteristics are verified with the light source present in the lamp."

*Annex 5*

*Insert new paragraphs 1.4. to 1.4.2., to read:*

- "1.4. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, at any conformity of production check:
- 1.4.1. The holder of the approval mark shall demonstrate the use in normal production and show the identification of the non-replaceable filament lamp(s) as indicated in the type approval documentation;
- 1.4.2. In the case where doubt exists in respect to compliance of the non-replaceable filament lamp(s) with lifetime requirements and/or, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 4.11. of IEC 60809, Edition 3, conformity shall be checked (by the light source manufacturer indicated in the type approval documentation) as specified in paragraph 4.11. of IEC 60809, Edition 3."

*Annex 6, amend to read:*

## **"Annex 6**

### **Minimum requirements for sampling by an inspector**

1. General
- 1.1. The conformity requirements shall be considered satisfied from a mechanical and a geometric standpoint, in accordance with the requirements of this Regulation, if any, if the differences do not exceed inevitable manufacturing deviations.
- 1.2. With respect to photometric performances, the conformity of mass-produced parking lamps shall not be contested if, when testing according to paragraph 8. of this Regulation, the photometric performances as set forth in paragraph 7. to this Regulation of any lamp chosen at random and equipped with a standard light source, or when the lamps are equipped with non-replaceable light sources (filament lamps or other), and when all measurements are made at 6.75 V, 13.5 V or 28.0 V respectively:
- 1.2.1. According to the requirements in paragraph 1.2.1. of Annex 5 to this Regulation are met.
- 1.2.2. In the case of a lamp equipped with a replaceable light source, if results of the test described above do not meet the requirements, tests on lamps shall be repeated using another standard light source.
- 1.2.3. Lamps with apparent defects are disregarded.
- 1.3. The chromaticity coordinates shall be complied with when the lamp is equipped with a standard light source, or for lamps equipped with non-replaceable light sources (filament lamps or other), when the colorimetric characteristics are verified with the light source present in the lamp.
2. First sampling
- In the first sampling four parking lamps are selected at random. The first sample of two is marked A, the second sample of two is marked B.

- 2.1. The conformity of mass-produced parking lamps shall not be contested if the deviation of any specimen of samples A and B (all four lamps) is not more than 20 per cent.
- In the case, that the deviation of both lamps of sample A is not more than 0 per cent, the measurement can be closed.
- 2.2. The conformity of mass-produced parking lamps shall be contested if the deviation of at least one specimen of sample A or B is more than 20 per cent.
- The manufacturer shall be requested to bring his production in line with the requirements (alignment) and a repeated sampling according to paragraph 3. below shall be carried out within two months' time after the notification. The samples A and B shall be retained by the Technical Service until the entire Conformity of Production process is finished.
3. First repeated sampling
- A sample of four lamps is selected at random from stock manufactured after alignment.
- The first sample of two is marked C, the second sample of two is marked D.
- 3.1. The conformity of mass-produced parking lamps shall not be contested if the deviation of any specimen of samples C and D (all four lamps) is not more than 20 per cent.
- In the case, that the deviation of both lamps of sample C is not more than 0 per cent the measurement can be closed.
- 3.2. The conformity of mass-produced parking lamps shall be contested if the deviation of at least:
- 3.2.1. One specimen of sample C or D is more than 20 per cent but the deviation of all specimen of these samples is not more than 30 per cent.
- The manufacturer shall be requested again to bring his production in line with the requirements (alignment).
- A second repeated sampling according to paragraph 4. below shall be carried out within two months' time after the notification. The samples C and D shall be retained by the Technical Service until the entire Conformity of Production process is finished.
- 3.2.2. One specimen of sample C or D is more than 30 per cent.
- In this case the approval shall be withdrawn and paragraph 5. below shall be applied.
4. Second repeated sampling
- A sample of four lamps is selected at random from stock manufactured after alignment.
- The first sample of two is marked E, the second sample of two is marked F.
- 4.1. The conformity of mass-produced parking lamps shall not be contested if the deviation of any specimen of samples E and F (all four lamps) is not more than 20 per cent.
- In the case, that the deviation of both lamps of sample E is not more than 0 per cent, the measurement can be closed.
- 4.2. The conformity of mass-produced parking lamps shall be contested if the deviation of at least one specimen of sample E or F is more than 20 per cent.

In this case the approval shall be withdrawn and paragraph 5. below shall be applied.

5. Approval withdrawn

Approval shall be withdrawn according to paragraph 13. of this Regulation."

*Figure 1*, shall be deleted.

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