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Item 3(a) of the provisional agenda

Regulation No. 37 (Filament lamps)

Proposal for Supplement 37 to the 03 series of amendments

Submitted by the experts from the Working Party “Brussels 1952”*

The text reproduced below was prepared by the expert from the Working Party “Brussels 1952” (GTB) in order to amend the provisions for categories of filament light sources H9 and H9B in Regulation No. 37. The proposal is based on the current text of the Regulation. The modifications to the existing text, including draft Supplement 36 to the 03 series of amendments are marked in bold characters.

* In accordance with the programme of work of the Inland Transport Committee for 2006–2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

1. Proposal

Paragraph 3.4.1., amend to read:

“3.4.1. Filament lamps shall first be aged at their test voltage for approximately one hour. For dual-filament lamps, each filament shall be aged separately. **In the case of filament lamps, for which more than one test voltage is specified, the highest test voltage value shall be used for ageing.**”

Paragraph 3.4.3., amend to read:

“3.4.3. The position and dimensions of the filament shall be measured with the filament lamps being supplied with current at from 90 per cent to 100 per cent of the test voltage. **In the case of filament lamps, for which more than one test voltage is specified, the highest test voltage value shall be used for measurement of the position and dimensions of the filament.**”

Paragraph 3.4.4., amend to read:

“3.4.4. Unless otherwise specified, electrical and photometric measurements shall be carried out at the test voltage(s).”

Annex 1, Sheet H9/3, the table, amend to read:

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....					
ELECTRICAL AND PHOTOMETRIC CHARACTERISTICS					
Rated values	Volts	12		12	
	Watts	65		65	
Test voltage	Volts	13.2	12.2	13.2	12.2
Objective values	Watts	73 max.	65 max.	73 max.	65 max.
	Luminous flux	2,100 ± 10%	1,650 ± 10%		
Reference luminous flux at approximately			12 V	1,500	
			12.2V	1,650	
			13.2 V	2,100	

”

Annex 5, Paragraph 1.3., amend to read:

“1.3. Tests shall be made at test voltage(s) as specified in the relevant lamp data sheet.”

Paragraph 1.5., amend to read:

- “1.5. Before starting a test, the stabilisation of the temperature of the filament lamp shall be obtained by operating at test voltage for 10 minutes. **In the case of filament lamps, for which more than one test voltage is specified, the relevant test voltage value shall be used for achieving stabilization.**”

II. Justification

1. In some applications it is necessary to operate the category H9 light source at a reduced voltage level to achieve optimum light output and lifetime. The proposed amendments to the H9 and H9B categories allow this flexibility. For instance, the higher luminous flux value is suitable for main beam while the lower value is suitable for dipped beam. The normal approval procedure for the headlamp is unchanged, because two values of reference luminous flux have been defined (the “etalon principle”). Additionally, two values of objective luminous flux at different voltages have been defined.
 2. This proposal applies to new type approvals after the date of entry into force of Supplement 37 to the 03 series of amendments and to all production lamps that were approved at an earlier date.
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