United Nations ECE/TRANS/WP.29/2016/24

Economic and Social Council

Distr.: General
23 December 2015

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

168th session
Geneva, 8-11 March 2016
Item 4.9.9 of the provisional agenda
1958 Agreement – Consideration of draft amendments to existing Regulations submitted by GRE

Proposal for Supplement 6 to the 01 series of amendments to Regulation No. 113 (Headlamps emitting a symmetrical passing-beam)

Submitted by the Working Party on Lighting and Light-Signalling*

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its seventy-fourth session (ECE/TRANS/WP.29/GRE/74, para. 35). It is based on ECE/TRANS/WP.29/GRE/2015/17. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee AC.1 for consideration at their March 2016 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2014–2018 (ECE/TRANS/240, para. 105 and ECE/TRANS/2014/26, 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.

Paragraph 6.2.6.1., to be deleted.

Paragraph 6.2.7., amend to read:

"6.2.7. Either one or two filament light sources (Classes A, B, C, D) or one gas discharge light source (Class E) or one or more LED module(s) (Classes A, B, C, D, E) are permitted for the principal passing-beam."

Paragraph 6.3.2., amend to read:

"6.3.2. Irrespective of type of light source (LED module(s) or filament light source(s) or gas discharge light source) used to produce the passing-beam, several light sources either:

(a) …

(b) …

(c) LED module(s) (Classes B, C, D, E) may be used for each individual driving-beam."

Annex 4,

Paragraph 2.2.1., amend to read:

"2.2.1. The result in milliradians (mrad) shall be considered as acceptable for a headlamp producing a passing beam, only when the absolute value $\Delta r_I = | r_3 - r_{60} |$ recorded on the headlamp is not more than 1.0 mrad ($\Delta r_I < 1.0$ mrad) upwards and not more than 2.0 mrad ($\Delta r_I \leq 2.0$ mrad) downwards."

Paragraph 2.2.2., amend to read:

"2.2.2. However, if this value is:

Movement	
Upward	More than 1.0 mrad but not more than 1.5 mrad ($1.0 \text{ mrad} < \Delta r_I \leq 1.5 \text{ mrad}$)
Downward	More than 2.0 mrad but not more than 3.0 mrad ($2.0 \text{ mrad} < \Delta r_I \leq 3.0 \text{ mrad}$)

A further sample of a headlamp shall be tested as described in paragraph 2.1. after being subjected three consecutive times to the cycle as described below, in order to stabilize the position of mechanical parts of the headlamp on a base representative of the correct installation on the vehicle:

Operation of the passing beam for one hour (the voltage shall be adjusted as specified in paragraph 1.1.1.2.),

After this period of one hour, the headlamp type shall be considered as acceptable if the absolute values Δr measured on the following sample meets the requirements in paragraph 2.2.1. above."

Annex 5,

Paragraph 1.4., amend to read:

"1.4. With respect to the verification of the change in vertical position of the "cut-off" line under the influence of heat, the following procedure shall be applied (Classes B, C, D and E headlamps only):

One of the sampled headlamps shall be tested according to the procedure described in paragraph 2.1. of Annex 4 after being subjected three consecutive times to the cycle described in paragraph 2.2.2. of Annex 4.

The headlamp shall be considered as acceptable if Δr does not exceed 1.5 mrad upwards and does not exceed 2.5 mrad downwards.

If this value exceeds 1.5 mrad but is not more than 2.0 mrad upwards or exceeds 2.5 mrad but is not more than 3.0 mrad downwards, a second sample shall be subjected to the test after which the mean of the absolute values recorded on both samples shall not exceed 1.5 mrad upwards and shall not exceed 2.5 mrad downwards."