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World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

Sixtieth session

Geneva, 1 - 3 October 2008

Item 11(c) of the provisional agenda

NEW AGENDA ITEMS

Regulation No. 112

(Headlamps emitting an asymmetrical passing beam)

Proposal for draft Supplement 11 to Regulation No. 112

Submitted by the expert 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 align the Regulation with the definition of "Principal Passing Beam" introduced into Regulation No. 48. The modifications to the current text of the Regulation (including Supplement 9 to the original version) 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 performance of vehicles. The present document is submitted in conformity with that mandate.

A. PROPOSAL

Paragraph 5.7.3., amend to read:

"5.7.3. either the **principal** passing beam or the driving beam shall always be obtained without any possibility of the mechanism stopping in between two positions;"

Paragraph 6.2.1., amend to read:

"6.2.1. The luminous intensity distribution of the **principal** passing beam headlamp shall incorporate a "cut-off" (see figure 1), which enables the headlamp to be adjusted correctly for the photometric measurements and for the aiming on the vehicle.
....."

Paragraph 6.4.3., amend to read:

"6.4.3. additional tests are made after the reflector has been moved vertically $\pm 2^\circ$ or at least into the maximum position, if less than 2° , from its initial position by means of the headlamps adjusting device. Having re-aimed the headlamp as a whole (by means of the goniometer for example) in the corresponding opposite direction the light output in the following directions shall be controlled and lie within the required limits:

principal passing beam: points HV and 75 R (75 L respectively);

driving beam: E_M and point HV (percentage of E_M)."

Annex 4,

Paragraph 1.1.1.1., amend to read:

"1.1.1.1.

(d) In the case of headlamp with a passing beam, one or more driving beams and a front fog lamp:

(i) the headlamp shall

(ii) if the applicant declaressuccessively the **principal passing beam** half of the time and the driving beam(s)

(iii) if the applicant declaressuccessively the **principal passing beam** half of the time and the front fog lamp for half of the time specified in paragraph 1.1. above, while the driving beam(s) is(are) subjected to a cycle of 15 minutes off and 5 minutes lit for half of the time and during the operation of the **principal passing beam**;

- (iv) if the applicant declares.... successively the **principal passing beam** one third of the time, the driving beam(s) one third of the time and the front fog lamp for one third of the time specified in paragraph 1.1. above.
- (e) In the case....."

B. JUSTIFICATION

The addition of the definition of "Principal Passing Beam" into Regulation No. 48 in association with the introduction of Light Emitting Diode (LED) Modules has led to a requirement to update the text of Regulation No. 112.
