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Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations**Working Party on Lighting and Light-Signalling****Sixty-sixth session**

Geneva, 4–6 October 2011

Item 5(k) of the provisional agenda

Collective amendments - Regulation Nos. 74 and 113**Proposal for amendments to Regulation No. 74 (Installation of lighting and light-signalling devices (mopeds)) and Regulation No. 113 (Headlamps emitting a symmetrical passing beam)****Submitted by the experts from Germany***

The text reproduced below was prepared by the expert from Germany in order to introduce LED headlamps of Class A and B into Regulation No. 113 and to amend Regulation No. 74 accordingly. This proposal is an update of ECE/TRANS/WP.29/GRE/2011/34 and informal document GRE-65-14, distributed during the sixty-fifth session of the Working Party on Lighting and Light Signalling (GRE). The modifications to the existing text of the Regulations are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106, ECE/TRANS/2010/8, programme activity 02.4), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

I. Proposal

Amendment to Regulation No. 74

Paragraph 6.2.1.(a), insert a new footnote *, to read:

- "6.2. Passing beam headlamp
- 6.2.1. Number
- One or two of approved type according to:
- (a) Regulation No. 113; *
 - (b) Class A of Regulation No. 112;
 - (c) Regulation No. 1;
 - (d) Regulation No. 56;
 - (e) Regulation No. 57;
 - (f) Regulation No. 72;
 - (g) Regulation No. 76
 - (h) Regulation No. 82.

* **Headlamps of Class A of Regulation No. 113 with LED modules only on vehicles with a maximum design speed not exceeding 25 km/h"**

Amendment to Regulation No. 113

Paragraph 5.3., amend to read:

"5.3. Headlamps of class A, B, C or D shall be equipped with filament lamp(s) approved according to Regulation No. 37 and/or, ~~for headlamps of class C or D,~~ with (an) LED module(s)."

Paragraph 5.3.2.3., amend to read:

"5.3.2.3. The total objective luminous flux of all LED modules producing the passing beam shall be measured as described in paragraph 5. of Annex 12. The following minimum and maximum limits shall apply:

	<i>Headlamps Class A</i>	<i>Headlamps Class B</i>	<i>Headlamps Class C</i>	<i>Headlamps Class D</i>
Passing beam minimum	100 lumen	350 lumen	500 lumen	1 000 lumen
Passing beam maximum	900 lumen	1000 lumen	2 000 lumen	2 000 lumen

II. Justification

1. This document is an update of ECE/TRANS/WP.29/GRE/2011/34 and informal document GRE-65-14, distributed during the sixty-fifth session of the Working Party on Lighting and Light Signaling (GRE). The initial proposal is extended to Class B headlamps, in agreement with the Working Party "Brussels 1952" (GTB).
 2. Vehicle manufacturers would like to use Class A or Class B headlamps with LED, especially in combination with electric propulsion system. However, such headlamps are not foreseen in Regulation No. 113. The purpose of this proposal is therefore to introduce Class A and Class B headlamps with LED or LED modules.
 3. Class A headlamps are comparable to good bicycle headlamps and the specified light distribution is relatively simple. Therefore, the experts of Germany see the need to limit the use of such headlamps to vehicles with a maximum speed of 25 km/h, corresponding to the required performance.
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