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**ECONOMIC COMMISSION FOR EUROPE**

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World Forum for Harmonization of Vehicle Regulations (WP.29)

Working Party on Lighting and Light-Signalling (GRE)

(Fifty-fourth session, 5-8 April 2005,  
agenda item 16.2.)

DRAFT PROPOSAL FOR AMENDMENTS TO REGULATION No. 112

(Headlamps emitting an asymmetrical passing beam)

Transmitted by the expert from the Working Party "Brussels 1952" (GTB)

Note: The text reproduced below was prepared by the expert from GTB, in order to align the provisions regarding additional light sources for the driving beam in Regulations Nos. 98 and 112, as requested by GRE at its fifty-third session (TRANS/WP.29/GRE/53, para. 55). Corresponding editorial amendments to Regulation No. 98 have been proposed in document TRANS/WP.29/GRE/2005/7.

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Note: This document is distributed to the Experts on Lighting and Light-Signalling only.

**A. PROPOSAL**

Paragraph 6.3.1., amend to read (deletion of the second sentence):

"6.3.1. In the case of a headlamp designed to ..... meet only the requirements referred to in paragraph 6.3."

Insert a new paragraph 6.3.2., to read:

**"6.3.2. It is possible to use several light sources for the driving beam."**

Paragraphs 6.3.2., 6.3.2.1., 6.3.2.1.1., 6.3.2.1.2. and 6.3.2.2.(former), renumber as paragraphs 6.3.3., 6.3.3.1., 6.3.3.1.1. 6.3.3.1.2. and 6.3.3.2.

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**B. JUSTIFICATION**

Regulation No. 48 permits the use of two or four main-beam headlamps and specifies requirements concerning the aggregate maximum intensity of the main-beam headlamps that can be switched on simultaneously.

The text of Regulation No. 112, which was developed from previous Regulations Nos. 1, 8 and 20, adopts the basic practice of permitting one light source in each driving beam headlamp. Thus, even in the case where a main beam comprises two optical units, each fitted with a single light source and contained within a single headlamp assembly, each of these units is considered as a separate main-beam headlamp to be individually type-approved. One of the two optical units may be a "bi-halogen" unit where the one light source is capable of producing both a passing and a driving beam, but in this case will only provide a contribution to the driving beam in conjunction with the second driving beam unit, and will not be capable of being type-approved in isolation.

In Regulation No. 98, it is accepted that two optical units, each fitted with separate light sources, may be used in a main-beam headlamp and that these can be simultaneously activated during the type approval to comply with the photometric provisions.

This proposal for substantial and editorial amendments to Regulation No. 112 is intended to align the provisions for the driving beam to those in Regulation No. 98, and thus to permit the type approval of driving beam headlamps where the two light sources, chosen from the list in Regulation No. 37 and operated simultaneously, will produce the driving beam conforming to the photometric requirements.

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