

OICA PROPOSAL FOR AMENDMENTS TO REGULATION No. 48

The text reproduced below was prepared by the expert from OICA to amend document ECE/TRANS/WP.29/GRE/2009/9 submitted by GRE Chairman, regarding Regulation No. 48 and in particular the automatic switching of the dipped beam headlamps installed on a vehicle equipped with daytime running lamps.

The proposed modifications to ECE/TRANS/WP.29/GRE/2009/9 are shown in **bold** and ~~strikethrough~~ type.

**A. PROPOSAL**

Paragraph 6.1.7.1., amend to read:

"6.1.7.1. The main-beam headlamps may be switched ON, in a steady-burning state, only when the master light switch is in headlamps ON position or in "AUTO" (automatic) position and the conditions for automatic activation of dipped beam exist. In the later case, the main beam headlamps shall be switched off automatically when the conditions for automatic activation of dipped beam ~~ceased~~ **cease** to exist."

Paragraph 6.2.7.7., amend to read (deletion of the footnote and of the reference to the footnote):

6.2.7.7. Paragraph 6.2.7.6. does not apply if ~~[\*]~~:

~~["\*] This exemption applies to vehicles of categories M1 and N1 until 66 months, and for vehicles to other M and N categories until 84 months, after the official date of entry into force of the 04 series of amendment to this Regulation."]~~

Paragraph 12.[21]., amend to read:

"12.[21]. As from [48] months from the official date of entry into force of Supplement 4 to the 04 series of amendments, Contracting Parties applying this Regulation shall grant approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by Supplement 4 to the 04 series of amendments, **with the exception of Paragraph 6.2.7.6.** ”

Add new paragraphs 12.[22]. to 12.[24]. to read:

**12.[22]. Approvals granted under this Regulation before the date mentioned in paragraph 12.[21]., including extensions of such approvals, shall remain valid indefinitely.**

**12.[23]. As from [66] months after the mandatory application dates of the 04 Series of Amendments, Contracting Parties applying this Regulation shall grant approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by Paragraph 6.2.7.6 of Supplement 04 to the 04 Series of Amendments.**

12.[24]. ECE approvals granted under this Regulation before the dates mentioned in paragraph 12.[23]., including extensions of such approvals, shall remain valid indefinitely.”

Annex 12, amend to read:

"Annex 12

AUTOMATIC SWITCHING CONDITIONS DIPPED-BEAM HEADLAMPS <u>1/</u>		
Ambient light (outside the vehicle) on a horizontal surface	Dipped-beam headlamps	Response time
less than [500] lux	ON	fast <u>2/</u>
between [500] lux and 7,000 lux	at manufacturer's discretion	as applicable <u>2/ 3/</u>
more than 7,000 lux	OFF	slow <u>3/</u>

**B. JUSTIFICATION**

The reason of each proposed amendment is reported below:

Paragraph 6.1.7.1.  
Editorial change.

Paragraph 6.2.7.7.  
The use of a footnote is not necessary because the issue of the exemption is solved via the transitional provisions. See amendments to paragraph 12.

Paragraph 12.21.:  
The Transitional Provisions give manufacturers lead time before the conformance to this amendment will be mandatory. GRE will have to decide on the actual number of months. This provision includes an exception for § 6.2.7.6 that will allow the type approval of vehicles to Supplement 04 of the 04 Series of Amendments having alternative design conditions for DRL/Dipped Beam Headlamp switching.

Paragraph 12.22.:  
The Transitional Provisions give manufacturers the ability to achieve national registrations, indefinitely, for vehicles type-approved to Series of Amendments prior to Supplement 04 of the 04 Series of Amendments.

Paragraph 12.23.:  
The Transitional Provisions allow manufacturers to install alternatives instead of a light sensor to operate the automatic DRL/Dipped Beam Headlamp switching, as required by Supplement 04 of the

04 Series of Amendments, for a period of 5 years from the mandatory fitment of Daytime Running Lamps.

Paragraph 12.24.:

The Transitional Provisions give manufacturers the ability to achieve national registrations, indefinitely, for vehicles type approved to Series of Amendments prior to Supplement 04 of the 04 Series of Amendments with an installed alternative to the light sensor to operate the automatic DRL/Dipped Beam Headlamp switching.

Annex 12

OICA proposes 500 instead of 1000 lux, in order to get a higher flexibility range (500-7000 lux).

The text specifies that 500 lux is the extreme value below which the dipped-beam headlamps must always be illuminated. However conformity with this value will lead the manufacturers to adjust their systems to values higher than 500 lux, meaning that the original target of 1000 lux will be achieved most of the time on vehicles in use.

This reflects state-of-the-art systems specification and is necessary to keep good acceptance by the users. As a consequence the AHS will gain in credibility and the safety targets will be easily achieved.

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