

## **Proposal for a Supplement to the 06 series of amendments to UN Regulation No. 48 (Installation of lighting and light-signalling devices)**

### **Submitted by the Informal Working Group on Simplification of Lighting and Light-Signalling Regulations (IWG SLR)**

The text reproduced below was prepared by IWG SLR with the aim to introduce into the 06 series of amendments to UN Regulation No.48 the possibility to extend to some additional contributors for driving-beam (more than four) without AFS. The modifications to the existing text of UN Regulation No. 48 are marked in bold for new or strikethrough for deleted characters.

## **I. Proposal - UN R48.06**

*Add a new paragraph 2.5.1.1. to read:*

**“2.5.1.1. “Auxiliary driving-beam (auxiliary main-beam) lamp” means a driving-beam approved as separate lamp in such a way that it is supplementing a driving-beam of another class.”**

*Paragraph 6.1.2., amend to read:*

“6.1.2. Number

Two ~~or four~~, type approved according to

- UN Regulation No. 98, or
- UN Regulation No. 112 of class B only, or
- UN Regulation No. 149.00, Classes B or D headlamps only, or
- UN Regulation No. 149.01 and subsequent series of amendments, Class B headlamp only.

**Optionally, one or more additional pair(s) type approved according to**

- **UN Regulation No. 98, and/or**
- **UN Regulation No. 112 of Classes A and/or B headlamps, and/or**
- **UN Regulation No. 149 of Classes A and/or B and/or RA headlamps**

~~For vehicles of the category N3: Two extra main-beam headlamps may be installed.~~

~~Where a vehicle is fitted with four concealable headlamps the installation of two additional headlamps shall only be authorized for the purpose of light signalling, consisting of intermittent illumination, at short intervals (see paragraph 5.12. above) in daylight.”~~

*Paragraph 6.1.7.4., amend to read:*

“6.1.7.4. The main-beam headlamps may be switched on—either simultaneously or in pairs. ~~In case the extra two main beam headlamps are installed, as permitted under paragraph 6.1.2. for vehicles of the category N3 only, no more than two pairs may be simultaneously lit.~~ For changing over from the dipped to the main beam at least one pair of main-beam headlamps shall be switched on. For changing over from the main-beam to the dipped-beam all main-beam headlamps shall be switched off simultaneously.

**The auxiliary driving-beam(s), class RA, shall only be switched ON together with the driving-beams of another class.”**

### **III. Justification**

1. In the current UN Regulation No. 48, it is already possible to have some additional contributors for driving-beam (more than four) in relation with AFS requirements (Par. 6.22.4.1.2.).
2. This proposal is intended to extend such a possibility to driving-beam also without AFS (Par. 6.1.). Brightness will be always limited by the requirements in Par. 6.1.9.1. ( $I_{\max}$  value 430,000 cd for all driving-beam headlamps switch ON simultaneously). In case of additional modules, the surface of the driving-beam will increase and its luminance will decrease. Consequently, an oncoming driver would not receive any additional glare.