

Proposal for Supplement 10 to the 04 series of amendments to Regulation No. 48 (Installation of lighting and light-signalling devices)

The text reproduced below was prepared by the expert from OICA to further clarify the test conditions regarding the requirements for the sensitivity of the sensor system for ADB (automatic/adaptive driving beam). The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

I. Proposal

Paragraph 6.1.7.1., amend to read:

- "6.1.7.1. The control of the main-beam headlamps may be automatic regarding their activation and deactivation, the control signals being produced by a sensor system which is capable of detecting and reacting to each of the following inputs:
- (a) ambient lighting conditions;
 - (b) the light emitted by the ~~front lighting devices and front light signalling devices~~ **dipped beam headlamps** of oncoming vehicles;
 - (c) the light emitted by the rear light-signalling of preceding vehicles."

Paragraph 6.22.7.1.2., amend to read:

- "6.22.7.1.2 The main-beam may be designed to be adaptive, subject to the provisions in paragraph 6.22.9.3., the control signals being produced by a sensor system which is capable of detecting and reacting to each of the following inputs:
- (a) ambient lighting conditions;
 - (b) the light emitted by the ~~front lighting devices and front light signalling devices~~ **dipped beam headlamps** of oncoming vehicles;
 - (c) the light emitted by the rear light-signalling of preceding vehicles."

II. Justification

This proposal aims to clarify the requirements regarding the sensor system for automatic/adaptive driving beam (ADB).

By considering paragraph: 2.6.2. "Light-signalling function" means the light emitted or reflected by a device to give to other road-users visual information on the presence, identification and/or the change of movement of the vehicle. Based on this definition, the front light-signalling devices can include front position lamp. Since the sensor shall not react to front position lamps, a text correctly addressing dipped beam headlamps instead has been herewith proposed.
