

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

Note: The modifications to the current text of the regulation are marked in strikethrough 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 of oncoming vehicles;
- (c) the light emitted by the rear light-signalling devices of preceding vehicles.

Additional sensor functions to improve performance are allowed.

For the purpose of this paragraph, "vehicles" means vehicles of categories L, M, N, O, T, as well as bicycles, such vehicles being equipped ~~with retro-reflectors,~~ with lighting and light-signalling devices, which are switched ON.
"

Paragraph 6.1.9.3.1.1. , amend to read:

"6.1.9.3.1.1. The boundaries of the minimum fields in which the sensor is able to detect light emitted ~~or retro-reflected~~ from other vehicles defined in paragraph 6.1.7.1. are defined by the angles indicated below. "

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 of oncoming vehicles;
- (c) the light emitted by the rear light-signalling of preceding vehicles;

Additional sensor functions to improve performance are allowed.

For the purpose of this paragraph, "vehicles" means vehicles of categories L, M, N, O, T, as well as bicycles, such vehicles being equipped ~~with retro-reflectors,~~ with lighting and light-signalling devices, which are switched ON.
"

Paragraph 6.1.9.3.1.1. , amend to read:

"6.22.9.3.1.1. The boundaries of the minimum fields in which the sensor is able to detect light emitted ~~or retro-reflected~~ from other vehicles as defined in paragraph 6.22.7.1.2. are given by the angles indicated in paragraph 6.1.9.3.1.1. to this Regulation."

II. Justification

At the 64th GRE session, the amendment below was proposed in GRE-64-23.

"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 of oncoming vehicles or the light reflected from front retro-reflecting device of oncoming vehicles;
- (c) the light emitted by the rear light-signalling of preceding vehicles or the light reflected from rear retro-reflecting devices of preceding vehicles.

....."

After the discussion, GRE decided to delete descriptions of retro-reflecting devices. But it seems that some descriptions of retro-reflecting devices are forgotten to delete. We, Japan propose to delete the descriptions and clarify that the capability of detecting and reacting of retro-reflecting devices are not needed to test.
