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**ECONOMIC COMMISSION FOR EUROPE**

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Working Party on Lighting and Light-Signalling

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Item 4.1. of the provisional agenda

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 48

(Installation of lighting and light-signalling devices)

Submitted by the expert from Germany

Note: The text reproduced below was prepared by the expert from Germany proposing optional installation of one or two additional direction indicator lamps aiming at providing a better hazard warning signal. The modifications to the existing text of the Regulation (up to Supplement 3 to the 03 series of amendments) are marked in **bold** characters.

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

A. PROPOSAL

Paragraphs 6.6.2. to 6.6.5., amend to read:

"6.6.2. Number

As specified in paragraph 6.5.2.

**One or two additional direction indicator lamps: optional.**

6.6.3. Arrangement

As specified in paragraph 6.5.3.

**However, in the case where one or two additional direction indicator lamps are installed according to paragraph 6.6.2., they shall not be reciprocally incorporated with any other lamp.**

6.6.4. Position

6.6.4.1. Width

As specified in paragraph 6.5.4.1.

**For one or two additional devices installed according to paragraph 6.6.2.: the centre of reference shall be situated on the median longitudinal plane of the vehicle.**

**However, in the case where one or two additional devices are installed according to paragraph 6.6.2., they shall be positioned as close as possible to the median longitudinal plane, one on each side of this plane.**

**In the case where one or two additional devices installed according to paragraph 6.6.2. offset from the median longitudinal plane, this offset shall not exceed 150 mm from the median longitudinal plane to the centre of reference of the lamp.**

6.6.4.2. Height

As specified in paragraph 6.5.4.2.

**However, the horizontal plane tangential to the lower edge of the apparent surface of one or two additional devices installed according to paragraph 6.6.2. shall be above the horizontal plane tangential to the upper edge of the apparent surface of the devices specified in paragraph 6.5.4.2.**

6.6.4.3. Length

As specified in paragraph 6.5.4.3.

**For one or two additional devices installed according to paragraph 6.6.2.: no special requirement.**

6.6.5. Geometric visibility

As specified in paragraph 6.5.5.

**For one or two additional devices installed according to paragraph 6.6.2.:**

- (a) **horizontal angle:** 10 ° to the left and to the right of the longitudinal axis of the vehicle;  
(b) **vertical angle:** 10 ° above and 5 ° below the horizontal."

Insert a new paragraph 6.6.7.4., to read:

**"6.6.7.4. It is not allowed to use one or two additional direction indicator lamps, installed according to paragraph 6.6.2., for the direction indicator signal (function)."**

B. JUSTIFICATION

With new vehicle safety technologies (both available and being developed), it is important that Regulations are further updated to reflect these advances.

The installation of one or two additional devices, as now proposed in paragraph 6.6.2., deems to improve the hazard warning signal (function).

In Germany such a device can be approved as a special warning lamp and it was introduced even before the hazard warning function.

Since then, different associations have expressed their preference for establishing similar provisions at an international level. Some car and truck manufacturers are also interested in such provisions.

The German Government sees an improvement for road safety by introducing the additional direction indicator lamps.

The lamps to be introduced are intended to improve the hazard warning signal (function) and to indicate an emergency stop signal.

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