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Working Party on Lighting and Light-Signalling

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Item 10(c) of the provisional agenda

REGULATION No. 53
(Installation of lighting and light-signalling devices for L_3 category vehicles)

Installation of daytime running lamps (DRL)

Proposal for draft Supplement 11 to the 01 series of amendments to Regulation No. 53

Submitted by the expert from Germany ∗/

The text reproduced below was prepared by the expert from Germany proposing to allow the installation of daytime running lamps (DRL), approved according to Regulation No. 87, on L_3 category vehicles. This proposal is a revision of ECE/TRANS/WP.29/GRE/2007/9 introduced during the fifty-seventh session of the Working Party on Lighting and Light-Signalling (GRE). The modifications to the current text of the Regulation (including Supplement 9 to the 01 series of amendments to the Regulation) are marked in bold characters.

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A.   PROPOSAL

Insert a new paragraph 2.5.17., to read:

"**2.5.17.**   "**Daytime running lamp**" **means a lamp facing in a forward direction used to make the vehicle more easily visible when driving during daytime**."

Paragraph 5.11.1., amend to read:

"5.11.1.   **If installed, the daytime running lamp shall automatically be ON when the engine is running. If no daytime running lamp is installed, the passing beam** headlamp shall automatically be on when the engine is running."

Paragraph 5.13., amend to read:

"5.13.   Colours of the lights

                    ….
                    front fog lamp: white or selective yellow
                    rear fog lamp: red
                    daytime running lamp: **white**"

Insert new paragraphs 6.13. to 6.13.8., to read:

"**6.13.**   **DAYTIME RUNNING LAMP**

6.13.1.   **Presence**

                    Optional for motorcycles.

6.13.2.   **Number**

                    One or two of approved type according to Regulation No. 87.

6.13.3.   **Arrangement**

                    No special requirement.

6.13.4.   **Position**

6.13.4.1.   **In width:**

6.13.4.1.1.   **An independent daytime running lamp may be installed above, below or to one side of another front lamp: If these lamps are one above the other the reference centre of the daytime running lamp shall be located**

within the medium longitudinal plane of the vehicle; if these lamps are side by side their reference centre shall be symmetrical in relation to the median longitudinal plane of the vehicle.

6.13.4.1.2.   A daytime running lamp, that is reciprocally incorporated with another front lamp (driving beam headlamp or front position lamp), shall be fitted in such a way that its reference centre lies within the median longitudinal plane of the vehicle. However, when the vehicle is also fitted with an independent passing beam headlamp alongside the daytime running lamp, their reference centres shall be symmetrical in relation to the median longitudinal plane of the vehicle.

6.13.4.1.3.   Two daytime running lamps, of which either one or both are reciprocally incorporated with another front lamp, shall be installed in such a way that their reference centres are symmetrical in relation to the median longitudinal plane of the vehicle.

6.13.4.2.   In height:
                Above the ground not less than 500 mm and not more than 1,500 mm.

6.13.4.3.   In length:
                At the front of the vehicle.

6.13.4.4.   In the case of two daytime running lamps, the distance separating the illuminating surfaces shall not exceed 240 mm.

6.13.5.   <u>Geometric visibility</u>

                Horizontal: outwards 20° and inwards 20°.

                Vertical: upwards 10° and downwards 10°.

6.13.6.   <u>Orientation</u>

                Towards the front. The lamp(s) may move in line with the steering angle.

6.13.7.   <u>Electrical connections</u>

6.13.7.1.   If installed, the daytime running lamp shall be switched ON automatically when the device, which starts and/or stops the engine, is in a position which makes it possible for the engine to operate.

                The daytime running lamp shall switch OFF automatically when the headlamps are switched ON, except when the latter are used to give intermittent luminous warnings at short intervals.

Furthermore, the lamps referred to in paragraph 5.10. may not switched ON when the daytime running lamps are switched ON.

6.13.7.2. **If the distance between the front direction-indicator lamp and the daytime running lamp is equal or less than 40 mm, the electrical connections of the daytime running lamp on the relevant side of the vehicle may be such that either**
(a) **it is switched OFF or**
(b) **its luminous intensity is reduced during the entire period (both ON and OFF cycle) of activation of a front direction-indicator lamp.**

6.13.7.3. **If a direction indicator lamp is reciprocally incorporated with a daytime running lamp, the electrical connections of the daytime running lamp on the relevant side of the vehicle shall be such that the daytime running lamp is switched OFF during the entire period (both ON and OFF cycle) of activation of the direction-indicator lamp.**

6.13.8. **<u>Tell-tale</u>**

Closed-circuit tell-tale optional."

B.   JUSTIFICATION

In accordance with the enforcement legislation of many countries, vehicles of category L must drive with the passing beam headlamps switched on. Germany sees an improvement for road safety by replacing the passing beam function by daytime running lamps. This will increase the vehicle visibility and will be favourable for the lifetime of the light sources used in passing beam headlamps. Latest research into conspicuity of motorcycles has shown that under daytime conditions an improved perception of such vehicles equipped with daytime running lamps will also be provided. An abstract of the latest research results will be presented in a separate document.

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