



Economic and Social Council

Distr.: General
23 December 2015

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

168th session

Geneva, 8-11 March 2016

Item 4.9.7 of the provisional agenda

**1958 Agreement – Consideration of draft amendments
to existing Regulations submitted by GRE**

Proposal for Supplement 18 to the 01 series of amendments to Regulation No. 53 (Installation of lighting and light- signalling devices for L₃ vehicles)

Submitted by the Working Party on Lighting and Light-Signalling*

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its seventy-fourth session (ECE/TRANS/WP.29/GRE/74, paras. 27 and 28). It is based on ECE/TRANS/WP.29/GRE/2015/39 as amended by Annex IV to the report and on ECE/TRANS/WP.29/GRE/2015/40 as amended by para. 28 of the report. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee AC.1 for consideration at their March 2016 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2014–2018 (ECE/TRANS/240, para. 105 and ECE/TRANS/2014/26, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

Insert new paragraph 2.32. and 2.33., to read:

- "2.32. "Sequential activation" means an electrical connection where the individual light sources of a lamp are wired such that they are activated in a predetermined sequence.
- 2.33. "Emergency stop signal" means a signal to indicate to other road users to the rear of the vehicle that a high retardation force has been applied to the vehicle relative to the prevailing road conditions."

Paragraph 5.8., amend to read:

- "5.8. In the absence of specific instructions, no lamps other than direction indicator lamps, the vehicle-hazard warning signal lamps and the emergency stop signal shall be flashing lamps."

Insert a new paragraph 5.8.1., to read:

- "5.8.1. The photometric characteristics of a direction indicator lamp except for categories 5 and 6 specified in Regulation No. 6, and of a direction indicator lamp specified in Regulation No. 50 may be varied during a flash by sequential activation of light sources as specified in paragraph 5.6. of Regulation No. 6 or in paragraph 6.8. of Regulation No. 50.

This provision shall not apply when direction indicator lamps of categories 2a and 2b of Regulation No. 6 or category 12 of Regulation No. 50 are operated as emergency stop signal according to paragraph 6.14. of this Regulation."

Paragraph 5.13., amend to read:

- "5.13. Colours of the lights
- ...
- | | |
|------------------------|---------------|
| Daytime running lamp: | white |
| Emergency stop signal: | amber or red" |

Insert a new paragraph 5.15.5., to read:

- "5.15.5. Emergency stop signal (paragraph 6.14.)."

Paragraph 6.9.2., amend to read:

- "6.9.2. Electrical connections
- The signal shall be given by means of a separate control enabling all the direction indicators to be supplied with current simultaneously. In addition, it may be activated automatically in the event of a vehicle being involved in a collision or after the de-activation of the emergency stop signal, as specified in paragraph 6.14. below. In such cases, it may be turned OFF manually."

Insert a new paragraph 6.14., to read:

- "6.14. Emergency stop signal
- 6.14.1. Presence
- Optional.
- The emergency stop signal shall be given by the simultaneous operation of all the stop or direction indicator lamps fitted as described in paragraph 6.14.7.

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- 6.14.2. Number
As specified in paragraph 6.3.1. or 6.4.1.
- 6.14.3. Arrangement
As specified in paragraph 6.3.2. or 6.4.2.
- 6.14.4. Position
As specified in paragraph 6.3.3. or 6.4.3.
- 6.14.5. Geometric visibility
As specified in paragraph 6.3.4. or 6.4.4.
- 6.14.6. Orientation
As specified in paragraph 6.3.5. or 6.4.5.
- 6.14.7. Electrical connections
- 6.14.7.1. All the lamps of the emergency stop signal shall flash in phase at a frequency of 4.0 ± 1.0 Hz.
- 6.14.7.1.1. However, if any of the lamps of the emergency stop signal to the rear of the vehicle use filament light sources the frequency shall be $4.0 +0.0/-1.0$ Hz.
- 6.14.7.2. The emergency stop signal shall operate independently of other lamps.
- 6.14.7.3. The emergency stop signal shall be activated and deactivated automatically.
- 6.14.7.3.1. The emergency stop signal shall be activated only when the vehicle speed is above 50 km/h and the braking system is providing the emergency braking logic signal defined in Regulation No. 78.
- 6.14.7.3.2. The emergency stop signal shall be automatically deactivated if the emergency braking logic signal as defined in Regulation No. 78 is no longer provided or if the vehicle-hazard warning signal is activated.
- 6.14.8. Tell-tale
Optional.
- 6.14.9. Other requirements
None. "

Annex 1, insert a new item 9.21., to read:

- "9.21. Emergency stop signal: yes/no²"
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