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World Forum for Harmonization of Vehicle Regulations**Working Party on Lighting and Light-Signalling****Seventy-fourth session**

Geneva, 20–23 October 2015

Item 7 (d) of the provisional agenda

Other Regulations - Regulation No. 53 (Installation of lighting and light-signalling devices for L₃ vehicles)**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 expert from the International Motorcycle Manufacturers Association***

The text reproduced below was prepared by the expert from the International Motorcycle Manufacturers Association (IMMA) to introduce an emergency stop signal on motorcycles to increase safety. The same function exists for M and N categories of vehicles. The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2012–2016 (ECE/TRANS/224, para. 94 and ECE/TRANS/2012/12, 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.

I. Proposal

Insert a new paragraph 2.33.¹, to read:

"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, ~~and~~ the vehicle-hazard warning signal **lamps and the emergency stop signal lamp(s)** shall be flashing lamps."

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.
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.

¹ Note by the secretariat: the numbering would need to be verified, as a new paragraph 2.32. is being proposed in ECE/TRANS/WP.29/GRE/2015/40.

- 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"

II. Justification

1. Automatic activation of the vehicle-hazard warning signal and indication of an emergency braking would increase road safety. The emergency braking signal is already available on the market for motor vehicles. As motorcycles are used in the same traffic conditions, this option should also be possible on motorcycles.
2. The detailed proposal has been prepared taking into account the provisions for emergency stop signal in Regulation No. 48, applicable for vehicles of categories M and N.