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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 (c) of the provisional agenda

Other Regulations - Regulation No. 50 (Position, stop, direction indicators lamps for mopeds and motorcycles)**Proposal for Supplement 18 to Regulation No. 50 (Position, stop, direction indicators lamps for mopeds and motorcycles)****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 sequential activation of light sources of direction indicators lamps for motorcycles. The same function exists also for four-wheelers (Regulations Nos. 6 and 48). 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

Paragraph 2.2., insert a new item (c), to read:

- "2.2. ...
 (c) **The sequential activation of light sources, if any.**
 ... "

Insert a new paragraph 6.8., to read:

- "6.8. For direction indicator lamps of categories 11, 11a, 11b, 11c or 12 the flash may be produced by sequential activation of their light sources if the following conditions are met:**
- (a) **Each light source, after its activation, shall remain lit until the end of the ON cycle;**
 - (b) **The sequence of activation of the light sources shall proceed in a uniform progressive manner from inboard towards the outboard edge of the apparent surface;**
 - (c) **It shall be one continuous line without repeat alternation in the vertical direction (e.g. no waves);**
 - (d) **The variation shall finish no more than 200 ms after the beginning of the ON cycle;**
 - (e) **For the orthogonal projection in the direction of the axis of reference of a rectangle, circumscribing the apparent surface of the direction indicator shall have its longer sides parallel to the H-plane, the ratio of the horizontal to the vertical sides shall not be less than 1.7.**

Compliance with the conditions mentioned above shall be verified in flashing mode."

Annex 2, item 9., amend to read:

- "9. Concise description:³
 ...
 Stop lamp: yes/ no ²
Sequential activation of light sources (see paragraph 6.8. of this Regulation): yes/no ² "

II. Justification

1. IMMA proposes this supplement to Regulation No. 50 (and a separate supplement to Regulation No. 53) to introduce the sequential activation of light sources of direction indicators lamps for motorcycles. The same function exists for four-wheeled vehicles in Regulation Nos. 6 and 48. The proposed text is based on Regulation No. 6, paragraphs 1.3. (e) and 5.6 and Annex 2, item 9.

2. No negative factors are identified for the introduction of the sequential activation of light sources in direction indicators for motorcycles.

3. A distraction investigation of dynamic turn indicators for four-wheeled vehicles was presented by the International Organization of Motor Vehicle Manufacturers (OICA) (GRE-70-16) at the seventieth session of GRE. Safety was not an issue as about seventy percent of subjects judged 'dynamic was better than static', and only few subjects evaluated 'no good'. Similar results are expected if dynamic turn indicators are tested for motorcycles.
