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World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

Fifty-ninth session

Geneva, 31 March - 4 April 2008

Item 5(f) of the provisional agenda

COLLECTIVE AMENDMENTS

Regulations Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119

Submitted by the expert from Germany */

The text reproduced below was prepared by the expert from Germany in order to insert provisions to prohibit the use of incandescent light sources in the case of light source modules and lamps with non-replaceable light sources and to clarify that, for light source modules, the use of ECE cap-holder systems is not allowed. It is based on ECE/TRANS/WP.29/GRE/2007/54 adopted by the Working Party on Lighting and Light-signalling (GRE) at its fifty-eighth session, as amended by Annex V to the report and on a document without a symbol (informal document No. GRE-58-07), distributed during the same GRE session (see report ECE/TRANS/WP.29/GRE/58, paras. 30 and 31). The modifications to the current text of the relevant Regulations are marked in **bold** or strikethrough characters.

*/ In accordance with the programme of work of the Inland Transport Committee for 2006-2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance performance of vehicles. The present document is submitted in conformity with that mandate.

A. PROPOSAL

A.1. PROPOSAL TO AMEND REGULATION No. 4 – (Rear registration plate lamp)
(The following text is based upon draft Supplement 14 to the Regulation)

Insert two new paragraphs 5.5.3. and 5.5.4., to read:

"5.5.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source;

5.5.4. No filament lamps are allowed in the case of the use of non-replaceable light sources or light source modules."

Annex 5, paragraph 1.1., amend to read:

"1.1. For non-replaceable light sources (~~filament lamps and other~~):
....."

A.2. PROPOSAL TO AMEND REGULATION No. 6 – (Direction indicators)
(The following text is based upon draft Supplement 17 to the 01 series of amendments)

Insert a new paragraph 5.3.3., to read:

"5.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

Insert a new paragraph 5.6., to read:

"5.6. No filament lamps are allowed in the case of the use of non-replaceable light sources or light source modules."

Annex 4, paragraph 3.1., amend to read:

"3.1. For non-replaceable light sources (~~filament lamps and other~~):
....."

A.3. PROPOSAL TO AMEND REGULATION No. 7 – (Front and rear position lamps, stop-lamps and end-outline marker lamps). (The following text is based upon draft Supplement 14 to the 02 series of amendments)

Insert a new paragraph 5.6.3., to read:

"5.6.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

Insert a new paragraph 5.9., to read:

"5.9. No filament lamps are allowed in the case of the use of non-replaceable light sources or light source modules."

Paragraph 7.1.2., amend to read:

"7.1.2. In the case of a lamp equipped with non-replaceable light sources (~~filament lamps and other~~), at 6. 75 V, 13. 5 V or 28. 0 V respectively."

Annex 4, paragraph 3.1., amend to read:

"3.1. For non-replaceable light sources (~~filament lamps and other~~):
....."

A.4. PROPOSAL TO AMEND REGULATION No. 23 – (Reversing lamps)
(The following text is based upon draft Supplement 15 to the Regulation)

Insert a new paragraph 5.3.3., to read:

"5.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

Insert a new paragraph 5.5., to read:

"5.5. No filament lamps are allowed in the case of the use of non-replaceable light sources or light source modules."

Paragraph 7.1.2., amend to read:

"7.1.2. In the case of a lamp equipped with non-replaceable light sources (~~filament lamps and other~~) shall be made at 6. 75 V, 13. 5 V or 28. 0 V respectively."

Annex 3, paragraph 3.1., amend to read:

"3.1. For non-replaceable light sources (~~filament lamps and other~~):
...."

- A.5. PROPOSAL TO AMEND REGULATION No. 38 – (Rear fog lamps) (The following text is based upon draft Supplement 14 to the Regulation)

Insert a new paragraph 5.3.3., to read:

"5.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

Insert a new paragraph 5.6., to read:

"5.6. No filament lamps are allowed in the case of the use of non-replaceable light sources or light source modules."

Paragraph 7.1.2., amend to read:

"7.1.2. In the case of a lamp equipped with non-replaceable light sources (~~filament lamps and other~~), at 6. 75 V, 13. 5 V or 28. 0 V respectively."

Annex 3, paragraph 5.1., amend to read:

"5.1. For non-replaceable light sources (~~filament lamps and other~~):
....."

- A.6. PROPOSAL TO AMEND ECE REGULATION No. 50 – (Position, stop and direction indicator lamps for mopeds and motorcycles).
(The following text is based on draft Supplement 12 to the Regulation)

Insert a new paragraph 6.3.3., to read:

"6.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

Insert a new paragraph 6.4., to read:

"6.4. No filament lamps are allowed in the case of the use of non-replaceable light sources or light source modules."

Annex 4, paragraph 3.1., amend to read:

"3.1. For non-replaceable (fixed) ~~filament lamps or other~~ light sources:
...."

- A.7. PROPOSAL To AMEND REGULATION No. 77 – (Parking lamps)
(The following text is based on draft Supplement 12 to the Regulation)

Insert a new paragraph 6.3.3., to read:

"6.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

Insert a new paragraph 6.5., to read:

"6.5. No filament lamps are allowed in the case of the use of non-replaceable light sources or light source modules."

Annex 4, paragraph 3.1., amend to read:

"3.1. For non-replaceable light sources (~~filament lamps and other~~):
....."

- A.8. PROPOSAL TO AMEND REGULATION No. 87 – (Daytime running lamps)
(The following text is based on draft Supplement 13 to the Regulation)

Insert a new paragraph 6.3.3., to read:

"6.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

Insert a new paragraph 6.6., to read:

"6.6. No filament lamps are allowed in the case of the use of non-replaceable light sources or light source modules."

Annex 3, paragraph 4.1., amend to read:

"4.1. For non-replaceable light sources (~~filament lamps or other~~):
....."

- A.9. PROPOSAL TO AMEND REGULATION No. 91 – (Side marker lamps)
(The following text is based on draft Supplement 11 to the Regulation)

Insert a new paragraph 6.3.3., to read:

"6.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

Insert a new paragraph 6.5., to read:

"6.5. No filament lamps are allowed in the case of the use of non-replaceable light sources or light source modules."

Paragraph 9.2., amend to read:

"9.2. All measurements on lamps equipped with non-replaceable light sources (~~filament lamps and other~~) shall be made at 6.75 V, 13.5 V or 28.0 V respectively."

A.10. PROPOSAL TO AMEND REGULATION No. 119 – (Cornering lamps)
(The following text is based on draft Supplement 3 to the Regulation)

Insert a new paragraph 5.3.3., to read:

"5.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

Insert a new paragraph 5.5., to read:

"5.5. No filament lamps are allowed in the case of the use of non-replaceable light sources or light source modules."

Paragraph 7.1.1., amend to read:

"7.1.1. All measurements on lamps equipped with non-replaceable light sources (~~filament lamps and other~~) shall be made at 6.75 V, 13.5 V or 28.0 V respectively. ..."

Annex 3, paragraph 3.1., amend to read:

"3.1. For non-replaceable light sources (~~filament lamps and other~~):
....."

B. JUSTIFICATION

This proposal for collective amendments on the base of ECE/TRANS/WP.29/GRE/2007/54 is intended to complete the requirements regarding the use of cap-holder systems in the case of light source modules in a lamp. Furthermore, it is intended to insert provisions which prevent the use of incandescent light sources as light source modules and lamps and as non-replaceable light sources. The reasons for this are:

- (a) Incandescent light sources have a relative short lifetime, even the so-called long life type;
- (b) There is the danger, that vehicle manufacturers try to undermine with such solutions the requirements of Regulation No. 48 concerning the easy exchange of replaceable light sources;
- (c) The missing additional requirements concerning the light source quality, as in Regulation No. 37, e.g. the colour endurance test;

(d) The danger of undermining Regulation No. 37 by the use of low quality filament lamps.

Therefore, the expert from Germany note disadvantages for road safety and consumers, which could be avoided by replaceable solutions.

Some counter-arguments of vehicle manufacturers are:

- (a) The light sources used for such solutions have a longer life time;
- (b) Problems with the cap – holder system that reduce reliability;
- (c) Reduction of manufacturing costs through these solutions.

The expert from Germany notes there are no reasons, to use filament lamps in non-replaceable designs. However, the industry needs to review of Regulation No. 37 to investigate which lamps or which cap – holder systems are no longer useful for future projects. Accordingly such categories should be listed as light sources "unfitted for new lamp approvals".
