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World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

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Item 4(c) of the provisional agenda

REGULATION No. 48

(Installation of lighting and light-signalling devices)

Clarifications on installation requirements

Proposal for draft Supplement 5 to the 04 series of amendments to Regulation No. 48

Submitted by the expert from the Working Party "Brussels 1952" */

The text reproduced below was prepared by the expert from the Working Party "Brussels 1952" (GTB) amending the requirements for the class F3 front fog lamp vertical alignment. The modifications to the existing text of the Regulation, including Supplement 3 to the 04 series of amendments, 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

Paragraph 6.3.6.1.2.2., amend to read:

"6.3.6.1.2.2. depending on the mounting height shall have the following value(s):

$h \leq 0.8$

Limits: between -1.0 per cent and ~~-2.5~~ **-3.0** per cent
Initial aiming: between -1.5 per cent and -2.0 per cent

$h > 0.8$

Limits: between -1.5 per cent and ~~-3.0~~ **-3.5** per cent
Initial aiming: between -2.0 per cent and -2.5 per cent "

Annex 9, paragraphs 1.3. to 1.3.2., amend to read:

"1.3. Alignment of dipped-beam headlamps **and class "F3" front fog lamps** towards the front

1.3.1. Initial downward inclination

The initial downward inclination of the cut-off of the dipped beam **and the class "F3" front fog lamps** shall be set to the plated figure as required and shown in Annex 7.

Alternatively paragraph 4.1.

1.3.2. Variation of inclination with load

The variation of the dipped beam downward inclination as a function of the loading conditions specified within this section shall remain within the range:

0.2 per cent to 2.8 per cent for headlamp mounting height $h < 0.8$;
0.2 per cent to 2.8 per cent for headlamp mounting height $0.8 \leq h \leq 1.0$; or
0.7 per cent to 3.3 per cent (according to the aiming range chosen by the manufacturer at the approval);

0.7 per cent to 3.3 per cent for headlamp mounting height $1.0 < h \leq 1.2$ m;
1.2 per cent to 3.8 per cent for headlamp mounting height $h > 1.2$ m.

In the case of a class "F3" front fog lamp with (a) light source(s) having a total objective luminous flux which exceeds 2,000 lumen, the variation of the

downward inclination as a function of the loading conditions specified within this section shall remain within the range:

0.7 per cent to 3.3 per cent for front fog lamp mounting height $h \leq 0.8$;

1.2 per cent to 3.8 per cent for front fog lamp mounting height $h > 0.8$ m.

The states of loading to be used shall be as follows, as indicated in Annex 5 of this Regulation, for every system adjusted accordingly."

B. JUSTIFICATION

This proposal aligns the vertical inclination requirements of the class "F3" front fog lamp with that of the dipped-beam. Currently, the range between the upper and lower alignment limits is less for the front-fog lamp than for the dipped-beam. Additionally, provisions for the alignment of the class F3 front fog lamp are introduced into Annex 9 to correct this omission.
