PROPOSAL FOR SUPPLEMENT 1 TO THE 02 SERIES OF AMENDMENTS TO REGULATION No. 46

(Devices for indirect vision)

Submitted by the Working Party on General Safety Provisions (GRSG)

Note: The text reproduced below was adopted by GRSG at its ninetieth session. It is based on documents ECE/TRANS/WP.29/GRSG/2006/13, as amended by para. 29 of the report, and ECE/TRANS/WP.29/GRSG/2006/16, not amended. It is submitted to WP.29 and to AC.1 for consideration (ECE/TRANS/WP.29/GRSG/69, para. 29 and paras. 47 and 50).

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The list of contents, the Annexes, amend to read:

"….

Annex 10 - Calculation of the detection distance ………………………………………

Annex 11 - Determination of the ocular points for a seat with a fixed seat back angle"

The text of the Regulation,

Paragraphs 1. to 1.2.2. and the corresponding footnote 1/, amend to read:

"1. SCOPE

This Regulation applies:

- to devices for indirect vision for vehicles of category M, N, and of category L 1/ with bodywork at least partly enclosing the driver,
- to the installation of devices for indirect vision on vehicles of category M and N 1/.

1/ As defined in Annex 7 to the Consolidated Resolution on the Construction of Vehicles (R.E.3), (document TRANS/WP.29/78/Rev.1/Amend.2 as last amended by Amend.4)."

Paragraph 12.1., amend to read:

"… as defined in Annex 8. In the case of a seat with fixed seat-back angle, the location of the ocular points shall be adjusted in accordance with the provisions of Annex 11 to this Regulation. The straight line …. "

Paragraph 15.2.1.1.1., the table, the fifth column "Wide-angle mirror Class IV", the cell for motor vehicles of category N ≤ 7.5 t, the text in the cell, amend to read:

"Compulsory For both sides if a Class V mirror can be fitted
Optional For both sides together if not"

Paragraph 15.2.1.1.1., the table, the sixth column "Close-proximity mirror Class V", the cell for motor vehicles of category N ≤ 7.5 t, the text in the cell, amend to read:

"Compulsory (see paragraphs 15.2.2.7. and 15.2.4.5.5.)
One on the passenger's side
Optional One on the driver's side (both must be fitted at least 2 m above the ground). A tolerance of + 10 cm may be applied"
Insert a new Annex 11, to read:

"Annex 11

DETERMINATION OF THE OCULAR POINTS FOR A SEAT
WITH A FIXED SEAT-BACK ANGLE

1. The position of the ocular points in relation to the R point shall be adjusted as indicated in the table below by X coordinates from the three-dimensional reference system. The table indicates the basic coordinates for a fixed seatback angle of 25 degrees. The three-dimensional reference system for the coordinates is as defined in Annex 8, Appendix 2 to this Regulation.

<table>
<thead>
<tr>
<th>Seat back angle (in degrees)</th>
<th>Horizontal coordinates ΔX</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>68 mm</td>
</tr>
</tbody>
</table>

2. Further correction for fixed seat-back angles other than 25 degrees.

The table below indicates the further corrections, from the ocular position with a fixed seat-back angle of 25 degrees, to be made to the X and Z coordinates of the ocular points when the design seat-back angle is not 25 degrees.

<table>
<thead>
<tr>
<th>Seat-back angle (in degrees)</th>
<th>Horizontal coordinates ΔX</th>
<th>Vertical coordinates ΔZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>-186 mm</td>
<td>28 mm</td>
</tr>
<tr>
<td>6</td>
<td>-177 mm</td>
<td>27 mm</td>
</tr>
<tr>
<td>7</td>
<td>-167 mm</td>
<td>27 mm</td>
</tr>
<tr>
<td>8</td>
<td>-157 mm</td>
<td>27 mm</td>
</tr>
<tr>
<td>9</td>
<td>-147 mm</td>
<td>26 mm</td>
</tr>
<tr>
<td>10</td>
<td>-137 mm</td>
<td>25 mm</td>
</tr>
<tr>
<td>11</td>
<td>-128 mm</td>
<td>24 mm</td>
</tr>
<tr>
<td>12</td>
<td>-118 mm</td>
<td>23 mm</td>
</tr>
<tr>
<td>13</td>
<td>-109 mm</td>
<td>22 mm</td>
</tr>
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<td>-99 mm</td>
<td>21 mm</td>
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<td>20 mm</td>
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<tr>
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<td>11 mm</td>
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<tr>
<td>21</td>
<td>-35 mm</td>
<td>9 mm</td>
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<tr>
<td>22</td>
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<td>7 mm</td>
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<tr>
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<td>-18 mm</td>
<td>5 mm</td>
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<tr>
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<td>3 mm</td>
</tr>
<tr>
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<td>0 mm</td>
<td>0 mm</td>
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<td>-52 mm</td>
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