

ALTERNATIVE PROPOSAL FOR SUPPLEMENT 1 TO THE 02 SERIES OF
AMENDMENTS TO REGULATION No. 46
(Devices for indirect vision)

Transmitted by the representative of the European Communities

Note: The text reproduced below is based on Document ECE/TRANS/WP.29/2006/101, which was adopted by GRSG at its ninetieth session. It is proposed to delete certain paragraphs of text from the above-mentioned document. These paragraphs are indicated below in ~~strike through~~.

A. PROPOSAL

~~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 $N_2 \leq 7.5$ 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 $N_2 \leq 7.5$ 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.~~

Seat back angle (in degrees)	Horizontal coordinates ΔX
25	68 mm

~~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.~~

Seat back angle (in degrees)	Horizontal coordinates ΔX	Vertical coordinates ΔZ
5	-186 mm	28 mm
6	-177 mm	27 mm
7	-167 mm	27 mm
8	-157 mm	27 mm
9	-147 mm	26 mm
10	-137 mm	25 mm
11	-128 mm	24 mm
12	-118 mm	23 mm
13	-109 mm	22 mm
14	-99 mm	21 mm
15	-90 mm	20 mm
16	-81 mm	18 mm

17	-72 mm	17 mm
18	-62 mm	15 mm
19	-53 mm	13 mm
20	-44 mm	11 mm
21	-35 mm	9 mm
22	-26 mm	7 mm
23	-18 mm	5 mm
24	-9 mm	3 mm
25	0 mm	0 mm
26	9 mm	3 mm
27	17 mm	5 mm
28	26 mm	8 mm
29	34 mm	11 mm
30	43 mm	14 mm
31	51 mm	18 mm
32	59 mm	21 mm
33	67 mm	24 mm
34	76 mm	28 mm
35	84 mm	32 mm
36	92 mm	35 mm
37	100 mm	39 mm
38	108 mm	43 mm
39	115 mm	48 mm
40	123 mm	52 mm

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B. JUSTIFICATION

Document ECE/TRANS/WP.29/2006/101 proposes amendments to Regulation 46 in respect of three aspects:

- 1) Clarification of the scope of the Regulation,
- 2) The mandatory installation of additional 'blind spot' mirrors, and
- 3) Adjustments to the position of the ocular points in respect of vehicles with a fixed seat back angle.

At the 91st GRSG meeting, the Netherlands raised concerns regarding 3) above. The European Commission agrees that the issue of adjustments to the ocular point position as a result of changes to the seat back angle requires further discussion at GRSG. However, in order to expedite the road safety benefits achievable through the installation of additional blind spot mirrors on certain classes of vehicle, the European Commission proposes that the modified installation requirements in paragraph 15. of the Regulation are adopted without further delay, together with the proposed clarification of the scope.

Therefore this document modifies ECE/TRANS/WP.29/2006/101 by removing the amendments which relate only to the adjustment of the ocular point position.
