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World Forum for Harmonization of Vehicle Regulations

Working Party on Passive Safety

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Item 4(a) of the provisional agenda

DOOR LOCK AND DOOR RETENTION COMPONENTS (gtr)

Proposal for draft amendments to global technical regulation No. 1 (Door locks and door retention components)

Submitted by the expert from the European Commission */

The text reproduced below was prepared by the expert from the European Commission in order to introduce some corrections to the current text of the global technical regulation (gtr) No. 1 and regarding the cases where doors open vertically (e.g.: gull-wing). It refers to ECE/TRANS/WP.29/AC.3/18 and it is based on a document without a symbol (informal document No. GRSP-43-04) distributed during the forty-third session of the Working Party on Passive Safety (GRSP). The modifications to the existing text of gtr No. 1 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 with respect to passive safety. The present document is submitted in conformity with that mandate.

A. PROPOSAL

TEXT OF REGULATION

Paragraph 5.1.3., amend to read:

"5.1.3. Load Test Three **(applicable to doors that open in a vertical direction)** ....."

Paragraph 5.1.3.1., amend to read:

"5.1.3.1. Each primary door latch system ~~on back doors~~ shall not disengage from the fully latched position when……"

Paragraph 5.1.5.1., amend to read:

"5.1.5.1. .....

(d) On ~~back~~ doors **which open in a vertical direction** ~~only~~, not separate when a ~~vertical~~ load of 9,000 N is applied **in the direction of the axis of the hinge pin**."

Paragraph 5.2.4.2.1., amend to read:

"5.2.4.2.1. A separation ~~between the interior of the door and the exterior edge of the doorframe exceeds 100mm,~~ **which permits a sphere with a diameter of 100 mm to pass unobstructed between the exterior of the vehicle and the interior of the vehicle,** while the required force is maintained."

Annex 1

Paragraph 1., amend to read:

"1. Purpose. These tests are ……..direction. For ~~back~~ doors **which open in a vertical direction**, the tests are intended ……."

Paragraph 2.1.2.1.1., amend to read:

"2.1.2.1.1. ~~Adapt~~ **Attach** the test fixture to the mounting provisions of the latch and striker. Align ~~in~~ the direction of engagement parallel to the linkage of the fixture. Mount **the fixture with** the latch and striker in the fully latched position ~~to the test fixture~~ **in the test machine.**"

Paragraph 2.1.2.2.1., amend to read:

"2.1.2.2.1. ~~Adapt~~ **Attach** the test fixture to the mounting provisions of the latch and striker. Align ~~in~~ the direction of engagement parallel to the linkage of the fixture. Mount

the test fixture with the latch and striker in the secondary latched position ~~to the test fixture~~ **in the test machine.**"

Paragraph 2.2.2.1.1., amend to read:

"2.2.2.1.1. ~~Adapt~~ **Attach** the test fixture to the mounting provisions of the latch and striker. Mount the **test fixture with** the latch and striker in the fully latched position **in the test machine.**"

Paragraph 2.2.2.2.1., amend to read:

"2.2.2.2.1. ~~Adapt~~ **Attach** the test fixture to the mounting provision of the latch and striker. **Align the direction of the engagement parallel to the linkage of the fixture.** Mount the **test fixture with the** latch and striker in the secondary latched position ~~to the test fixture~~ **in the test machine.**"

Paragraph 2.3., amend to read:

"2.3. Load Test Three (~~Back~~ **For** Doors **that open in a vertical direction**~~Only~~)"

Paragraph 2.3.2.1., amend to read:

"2.3.2.1. ~~Adapt~~ **Attach** the test fixture to the mounting provisions of the latch and striker. Mount **the test fixture** in the fully latched position ~~to the test fixture~~ **in the test machine.**"

Figure 1 - 3, the title, amend to read:

"Figure 1-3 - Door Latch – Tensile Testing Fixture for Load Test 3 (~~Back~~ **For** Doors **that open in a vertical direction**~~Only~~)"

Annex 2

Paragraph 2.3.3.5., amend to read:

"2.3.3.5. Vertical Setup 1. (**Applicable to doors that open in a vertical direction** ~~Only for back doors~~)."

Paragraph 2.3.3.6., amend to read:

"2.3.3.6. Vertical Setup 2. (**Applicable to doors that open in a vertical direction** ~~Only for back doors~~)."

B. JUSTIFICATION:

Paragraphs 5.1.3., 5.1.3.1. and 5.1.5.1.:
Thus applies in cases where side doors open vertically (e.g. gull-wing).

Paragraph 5.2.4.2.1.:
As proposed by ECE/TRANS/WP.29/AC.3/18, page 7.

Annex 1
Correction for vertically opening doors.
Test details are as proposed by ECE/TRANS/WP.29/AC.3/18, pages 7 and 8. However, references at the end of each section to the load direction are removed, as this requirement is stated originally under sections 5.1.1., 5.1.2. and 5.1.3. of the gtr.

Annex 2
Thus applies in cases where side doors open vertically (e.g. gull-wing).

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