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World Forum for Harmonization of Vehicle Regulations

Working Party on Passive Safety

Forty-fourth session
Geneva, 10-12 December 2008
Item 8(a) of the provisional agenda

REGULATION No. 11
(Door latches and hinges)

Alignment to gtr No. 1
(Door locks and door retention components)

Proposal for draft Supplement 2 to the 03 series of amendments to Regulation No. 11

Submitted by the expert from the European Commission */

The text reproduced below was prepared by the expert from the European Commission in order to provide consideration in cases where back or side doors open vertically (e.g. gull-wing). It is based on a document without a symbol (informal document No. GRSP-43-03) distributed during the forty-third session of the Working Party on Passive Safety (GRSP). The modifications to the existing text of Regulation No. 11, including draft Supplement 1 to the 03 series of amendments to Regulation No. 11 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

Paragraph 6.1.3., amend to read:

"6.1.3. Load Test Three (applicable ~~only to back doors~~ that open in a vertical direction)

6.1.3.1. Each primary door latch system ~~on back doors~~ shall not disengage from the fully latched position when a load of 9,000 N is applied in **the direction of the axis of the hinge pin.** ~~a direction orthogonal to the directions specified in paragraphs 6.1.1.1. and 6.1.2.1., when tested in accordance with paragraph 7.1.1.1."~~

Paragraph 6.1.5.1.(d), amend to read:

"6.1.5.1.
(d) On ~~back doors~~ **which open in a vertical direction,**
(i) ~~Not separate when a load of 11,000 N is applied perpendicular to the hinge face plate (longitudinal test) such that the hinge plates are not compressed against each other (Load Test One).~~
(ii) ~~Not separate when a load of 9,000 N is applied perpendicular to the axis of the hinge pin and parallel to the hinge face plate (transverse load test) such that the hinge plates are not compressed against each other (Load Test Two).~~
(iii) ~~not separate when a load of 9,000 N is applied in the direction of the axis of the hinge pin (Load Test Three — only for back doors that open in a vertical direction).~~"

Paragraph 6.2.4.2.1., amend to read

"6.2.4.2.1. A separation which permits a sphere with a diameter of 100 mm to pass unobstructed **from the interior of the vehicle to the exterior of the vehicle,** while the required force is maintained."

Annex 3,

Paragraph 1., amend to read:

"1. Purpose.

These tests aredirection. For ~~back doors only~~ **which open in a vertical direction,** the tests are intended"

Paragraph 2.1.2.1.1., amend to read:

"2.1.2.1.1. Attach to the linkage of the **test** fixture. Mount the **test** fixture ..."

Paragraph 2.1.2.2.1., amend to read:

"2.1.2.2.1. Attach to the linkage of the **test** fixture....."

Paragraph 2.3., amend to read:

"2.3. Load Test Three (~~only For~~ **back doors that open in a vertical direction**)"

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

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

Annex 4,

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~~). Orient the door....."

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~~). Orient the door"

Annex 5,

Paragraph 1., amend to read:

"1. Purpose

These tests are conducted to determine the ability of the vehicle hinge system to withstand test loads:

- (a) In the longitudinal and transversal directions and, in addition,
- (b) for ~~back doors that open in a vertical direction only, also the vertical vehicle~~ **direction, as shown in Figure 5-2.**

Paragraph 2.1.3., amend to read:

"2.1.3. Vertical Load Test (~~Only For~~ **back doors that open in the vertical direction**)"

Title for Figure 3-3, amend to read:

"Figure 5-2 – Static load test directions for ~~back doors~~ **that open in the vertical direction.**"

Annex 6,

Paragraph 3.6.3., amend to read:

"3.6.3. The force application plate is positioned **such that the long edge of the plate** is as close to, **and parallel to**, the **interior** edge of the door as possible, but not such that the forward edge of the plate is more than 12.5 mm from the interior edge.

Paragraph 3.7.3., amend to read:

"3.7.3. The force application plate is positioned **such that the long edge of the plate** is as close to, **and parallel to**, the **interior** edge of the door as possible, but not such that the forward edge of the plate is more than 12.5 mm from the interior edge."

B. JUSTIFICATION

In line with proposals made for changes in the text of the gtr, these proposed changes in text provide consideration in cases where back or side doors open vertically (e.g. gull-wing).

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