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Regulation No. 44 (Child Restraints Systems)

Proposal for draft Supplement 5 to the 04 series of amendments to Regulation No. 44

Submitted by the expert from Spain *

The text reproduced below was prepared by the expert from Spain on behalf of the Technical Services Group (TSG) on Regulation No. 44. It aims to prevent users from disengaging unintentionally ISOFIX child restraints from their anchoring points. The modifications to the current text of Regulation are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/2010/8, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

I. Proposal

Insert a new paragraph 7.2.7., to read:

- "7.2.7. ISOFIX attachment shall be subjected to the following tests of no-load opening:**
- A complete ISOFIX attachment mechanism, which has not been previously subjected to a load, shall be used for this test. The force needed to open the ISOFIX attachment when it is not under load shall be in the range of at least 40 N in the tests prescribed in paragraph 8.2.9. below."**

Insert new paragraphs 8.2.9. to 8.2.9.5., to read:

- "8.2.9. ISOFIX attachment opening test under zero load:**
- 8.2.9.1. A load shall be applied at a speed of 400 ± 20 mm/min to the release button or handle along a fixed axis running parallel to the initial direction of motion of the button/handle; the geometric centre applies to that part of the surface of the ISOFIX attachment to which the release pressure is to be applied. The ISOFIX attachment shall be secured against a rigid ISOFIX anchor during the application of the opening force.**
- 8.2.9.2. The ISOFIX attachment opening force shall be applied, using a dynamometer or similar device in, the normal manner and direction as indicated in the Manufacturers user manual. The contact end shall be a polished metal hemisphere with radius 2.5 ± 0.1 mm for a release button or a polished metal hook with a radius of 25 mm**
- 8.2.9.3. The ISOFIX attachment opening force shall be measured and any failure noted.**
- 8.2.9.4. An ISOFIX attachment assembly which has not previously been subjected to a load shall be mounted and positioned under a "no load" condition.**
- 8.2.9.5. The ISOFIX attachment opening force shall be measured."**

II. Justification

1. In the current text of Regulation No. 44 there are no requirements to prevent users, or a sibling sitting next to the CRS, to unintentionally disengage ISOFIX child restraints from their anchor points.
2. The proposed amendment will ensure that the ISOFIX attachment will not be disengaged below a certain force applied to the release button.