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Economic Commission for Europe**Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****Working Party on Passive Safety****Sixty-fourth session**

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Item 19 of the provisional agenda

UN Regulation No. 129 (Enhanced Child Restraint Systems)**Proposal for Supplement 2 to the 03 series of amendments to
UN Regulation No. 129****Submitted by the expert from the European Association of Automotive
Suppliers***

The text reproduced below was prepared by the expert from the European Association of Automotive Suppliers (CLEPA) to clarify the provisions required for booster seats in the 03 series of amendments to UN Regulation No. 129. The modifications to the current text of the UN 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 2014–2018 (ECE/TRANS/240, para. 105 and ECE/TRANS/2014/26, programme activity 02.4), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

GE.18-16016(E)



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I. Proposal

Paragraphs 6.1.3.4. and 6.1.3.5., amend to read:

"6.1.3.4. **Non-integral** Enhanced Child Restraint Systems ~~of the booster seat categories~~ shall have only one adult safety-belt route and a main load-bearing contact point, between the Enhanced Child Restraint System and the adult safety-belt on each side of the Enhanced Child Restraint System. This point shall not be less than 450 mm from the Cr axis when measured with the Enhanced Child Restraint System on the dynamic test bench installed in accordance with paragraph 7.1.3.5.2.2. of this Regulation, without a dummy. This shall apply to all adjustment set-ups and webbing paths.

6.1.3.5. The adult seat belt required to secure **belted Enhanced Child Restraint Systems** ~~an i-Size booster seat~~ on the dynamic test bench is defined in Annex 22 to this Regulation.

..."

Paragraph 6.2.1.5., amend to read:

"6.2.1.5. All restraint ... to excessive stresses.

In the case of **non-integral Enhanced Child restraint Systems** ~~booster seats~~, the lap portion of the adult safety-belt shall be positively guided on both sides to ensure that the loads transmitted by the adult lap belt are transmitted through the pelvis.

..."

Paragraph 6.3.2.1., amend to read:

"6.3.2.1. Internal geometric characteristics

The Technical Service conducting the approval tests shall verify that the internal dimensions of the Enhanced Child Restraint System conform to the requirements of Annex 18. The minimum dimensions for shoulder breadth, hip breadth and sitting height shall be fulfilled simultaneously for any stature within the size range declared by the manufacturer.

...

Booster seats ~~Non-integral Enhanced Child Restraint System~~ shall also fulfil the maximum dimensions of shoulder height, for any stature within the size range declared by the manufacturer."

Paragraph 6.3.2.2.2., amend to read:

"6.3.2.2.2. Non-Integral Class Enhanced Child Restraint Systems

...

When conducting this assessment, the **booster seat** ~~non-integral Enhanced Child Restraint System~~ shall be adjusted to accommodate children of 135 cm stature (height, depth and width dimensions as defined in Annex 18) or to the largest size of its declared stature range if the upper limit is below 135 cm.

The **booster seat** ~~Non-integral Enhanced Child Restraint System~~ shall fit within the booster seat fixture in all angles of inclination of the fixture (90°-110°). The Enhanced Child Restraint System may be adjusted between inclination angles or positions to fit within the different booster seat fixture angles.

If other positions of inclination are outside the limits of the applicable size envelope, the user manual shall indicate that the child restraint may not fit in

all approved vehicles when used in one of these positions. If the **booster seat** ~~Non integral Enhanced Child Restraint System~~ has a declared stature range above 135 cm, and if it is necessary to adjust the child restraint outside the limits of the applicable size envelope for such adjustments (height, depth and width dimensions), the user manual shall indicate that the child restraint may not fit in all approved vehicles when used in one of these positions."

Paragraph 6.6.4.1.2.2., amend to read:

"6.6.4.1.2.2. For Enhanced Child Restraint Systems which are in conformity with paragraph 6.3. of this Regulation (for example ECRS using no anti-rotation device or using additional anchorages) or do not fit in any envelope defined in Regulation No. 16, Annex 17, Appendix 2 **or Appendix 5**, on the test trolley in a vehicle body shell in conformity with paragraph 7.1.3.2. or in a complete vehicle in conformity with paragraph 7.1.3.3. of this Regulation."

II. Justification

The proposal aims to clarify the provisions required for booster seats in the 03 series of amendments to UN Regulation No. 129 to avoid a possible confusion with the provisions addressing booster cushions in the proposal for the 04 series of amendments (ECE/TRANS/WP.29/GRSP/2018/29). In addition a missing reference to an appendix to R16 that defines envelopes for non integral Enhanced Child Restraint Systems was added.
