Proposal for supplement 1 to the 10 Series of Amendments to UN Regulation No. 16 (Safety-belts) [[1]](#footnote-2)\*

Submitted by the expert from the Netherlands

The text reproduced below was prepared by the expert from the Netherlands amend working document ECE/TRANS/WP.29/GRSP/2024/6 as prepared by Germany, to include the modifications that were introduced by supplement 1 to the 09 series of amendments to UN R16 (ECE/TRANS/WP.29/2024/124). The modifications to ECE/TRANS/WP.29/GRSP/2024/6 are marked in bold blue for new and strikethrough blue for deleted characters.

1. Proposal

*Paragraph 7.8.2.,* amend to read:

"7.8.2. The belt assembly shall be removed from the test trolley without the buckle being opened.

**In case of a two-point lap belt A**~~a~~ load shall be applied **to each side of** the buckle by direct traction via the straps tied to it, so that ~~all~~ **each of the two** ~~the~~ straps be subjected to ~~the~~**a** force of ~~ daN~~ **30** daN. ~~(It is understood that n is the number of straps linked to the buckle when it is in a locked position.)~~

**In case of a three-point belt, the upper and lower strap of the diagonal belt part shall be clamped together, so that the two straps together are subjected to the force of 30 daN.**

**S-type belts shall be tested depending on its geometry analogously to the above-mentioned procedures, with forces, agreed between the manufacturer and the technical service simulating a similar load on the buckle**. **An additional crotch strap shall be not taken into account for this test.**

In the case where the buckle is connected to a rigid part, the load shall be applied at the same angle as the one formed by the buckle and the rigid end during the dynamic test. A load shall be applied at a speed of 400 ± 20 mm/min to the geometric centre of the buckle-release button along a fixed axis running parallel to the initial direction of motion of the button. During the application of the force needed to open the buckle, the buckle shall be held by a rigid support. The load quoted above shall not exceed the limit indicated in paragraph 6.2.2.5. above. The point of contact of the test equipment shall be spherical in form with a radius of 2.5 mm ± 0.1 mm. It shall have a polished metal surface."

*Annex 15, footnote 1,* amend to read:

"1 The procedure is described in ~~Annex 1 and its Appendices 1, 2 and 3 to the Consolidated Resolution on the Construction of Vehicles (R.E.3) (document ECE/TRANS/WP.29/78/Rev.6 -www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html~~ **Addendum 6 of Mutual Resolution No. 1 (M.R.1) (document ECE/TRANS/WP.29/1101/Amend.5);  
see** [**https://unece.org/transport/vehicle-regulations/wp29/resolutions**](https://unece.org/transport/vehicle-regulations/wp29/resolutions)"

II. Justification

1. This proposal aims to clarify, how to perform the buckle-opening test, simulating the load caused by 60 kg body, described under paragraph 7.8. of the UN Regulation
2. The specifications of the three-dimensional "H" (3-D "H")-point machine have been updated and transferred from R.E.3. to M.R.1.   
   Supplement 1 to the 09 Series of Amendments to Regulation No. 16 is reflecting this change (ECE/TRANS/WP.29/2024/124). However, it seems like this change has not been included in the 10 Series of Amendments to this Regulation which has been adopted during the same session of WP.29 in November 2024 (ECE/TRANS/WP.29/2024/118). This modification clarifies that it also applies to the 10 Series of Amendments.

1. \* In accordance with the programme of work of the Inland Transport Committee for 2024 as outlined in proposed programme budget for 2024 (A/78/6 (Sect. 20), table 20.5), 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. [↑](#footnote-ref-2)