

**Economic and Social Council**Distr.: General  
11 November 2022

Original: English

---

**Economic Commission for Europe**

Inland Transport Committee

**World Forum for Harmonization of Vehicle Regulations****Working Party on Automated/Autonomous and Connected Vehicles****Fifteenth session**

Geneva, 23-27 January 2023

Item 8(a) of the provisional agenda

**UN Regulations Nos. 13, 13-H, 139, 140 and UN GTR No. 8:****Electronic Stability Control****Proposal for a new series of amendments to UN Regulation  
No. 13 (Heavy vehicle braking)****Submitted by the expert from France\***

The text reproduced below was prepared by the expert from France. This proposal aims to equip four axles commercial vehicles over 25 tons with vehicle stability function due to their specific use. It is based on formal document ECE/TRANS/WP29/GRVA/2022/14 and informal document GRVA-13-23 from the International Organisation of Motor Vehicle Manufacturers (OICA). The modifications to the existing text of UN Regulation No. 13 are marked in bold for new characters.

---

\* In accordance with the programme of work of the Inland Transport Committee for 2023 as outlined in proposed programme budget for 2023 (A/77/6 (Sect.20), para 20.6), 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.



## I. Proposal

Paragraph 5.2.1.32., amend to read:

“5.2.1.32. Subject to the provisions of paragraph 12.3. of this Regulation, all vehicles of the following categories shall be equipped with a vehicle stability function:

- (a)  $M_2$ ,  $M_3$ ,  $N_2$ <sup>12</sup>;
- (b)  $N_3$ <sup>12</sup> having no more than 3 axles;
- (c)  $N_3$ <sup>12</sup> with 4 axles, with a maximum mass not exceeding 25t and a maximum wheel diameter code not exceeding 19.5;
- (d)  **$N_3$ <sup>12</sup> with 4 axles, with two power-driven axles in the rear axle group and only non-driven axles in the other axle group(s), including off-road vehicles (regardless of footnote 12).**

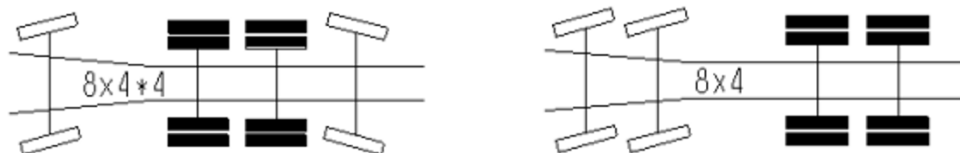
The vehicle stability function shall include roll-over control and directional control and meet the technical requirements of Annex 21 to this Regulation.”

Insert new paragraphs 12.8., 12.8.1., 12.8.2., 12.8.3., 12.8.4., 12.8.5., 12.8.6., 12.8.7., to read:

- 12.8. Transitional provisions applicable to the 13 series of amendments**
- 12.8.1. As from the official date of entry into force of the 13 series of amendments, no Contracting Party applying this Regulation shall refuse to grant or refuse to accept type approvals under this Regulation as amended by the 13 series of amendments.**
- 12.8.2. As from 1 September 2026, Contracting Parties applying this Regulation shall not be obliged to accept type approvals to the 12 series of amendments, first issued after 1 September 2026.**
- 12.8.3. Until 1 September 2028, Contracting Parties applying this Regulation shall accept type approvals to the 12 series of amendments, first issued before 1 September 2026.**
- 12.8.4. As from 1 September 2028, Contracting Parties applying this Regulation shall not be obliged to accept type approvals issued to the 12 series of amendments to this Regulation.**
- 12.8.5. Notwithstanding paragraph 12.8.4., Contracting Parties applying this Regulation shall continue to accept type approvals issued according to the 12 series of amendments to this Regulation, for the vehicles that are not affected by the changes introduced by the 13 series of amendments.**
- 12.8.6. Contracting Parties applying this Regulation may grant type approvals according to any preceding series of amendments to this Regulation.**
- 12.8.7. Contracting Parties applying this Regulation shall continue to grant extensions of existing approvals to any preceding series of amendments to this Regulation.”**

## II. Justification

1. This document supersedes ECE/TRANS/WP29/GRVA/2022/14, through which France suggested to mandate the fitment of an electronic stability function on  $N_3$  concrete mixers with four axles. Given the difficulty to refer to “concrete mixers” in the Regulation, the current proposal is to refer to and include all vehicles with four axles and two power-driven rear axles in the scope of the mandatory installation of electronic stability function, should they be concrete mixers or not.



2. After consultation with vehicles manufacturers, it is estimated that this proposal meets the objective of France, since most of the concrete mixers are 8x4 or 8x4/4, and only very few are 8x2.
3. It is recognized that this proposal addresses higher volumes than only the concrete mixers, which are only a small fraction of 8x4 and 8x4/4 vehicles, also including offroad vehicles in the scope (regardless footnote 12).
4. Given the change in the technical specification of the vehicles, a new series of amendments is needed, with sufficient lead-time to update the production.