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Item 8(b) of the provisional agenda

**UN Regulations Nos. 13, 13-H, 139, 140 and UN GTR No. 8:
Electromechanical braking**

Proposal for amendments to UN Regulation No. 13 (Heavy Vehicle Braking)

Submitted by the experts from the International Motor Vehicle Inspection Committee (CITA)*

The text reproduced below was prepared by the experts from the International Motor Vehicle Inspection Committee (CITA), aimed to enabling the live recording of brake demand values during Periodic Technical Inspections (PTI), which is crucial for enhancing road safety by ensuring more accurate assessments of brake system performance. It is based on formal document ECE/TRANS/WP.29/2024/143 (expected to be adopted by the WP.29 in November 2024) and informal documents GRVA-19-17 and GRVA-20-39. The modifications to the existing text of the Regulation are marked in bold for new characters and in bold strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2025 as outlined in proposed programme budget for 2025 (A/79/6 (Sect. 20), table 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 5.1.4.6.2.1., amend to read:

- 5.1.4.6.2.1. It shall be possible to evaluate the relationship between the brake demand value(s) and the measured braking force on a roller brake tester. The brake demand value(s) shall be displayed on the vehicle and easily readable from the driver's seat during the roller brake test (e.g., using a menu system, automatic demand, etc.). **Additionally, it shall be possible to read and record the brake demand value(s) through the On-Board Diagnostics (OBD) connector using a scan tool.** The vehicle manufacturer shall describe how to display **and access** those values and make this information available according to paragraph 5.1.4.5.1. above.

II. Justification

1. This proposed amendment to UN Regulation No. 13 aims to include pertinent provisions for Periodic Technical Inspection (PTI) regarding Electrical Transmission Braking Systems (ETBS) in Heavy Duty Vehicles (HDV).
 2. The justification for this amendment is rooted in the necessity to update and reinforce vehicular safety standards, acknowledging the increasing prevalence and complexity of electrical transmission braking systems in the automotive industry. Moreover, this procedure is aligned with current technology and measuring practices, ensuring traceability of information, minimizing time and potential errors during inspections.
 3. This measure aims to ensure the effectiveness and reliability of technical inspections, promoting vehicle safety, reducing road accidents, and enhancing road safety worldwide, without burdening vehicle owners or fleet managers, while maintaining consistency with existing provisions.
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