



# Economic and Social Council

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## Economic Commission for Europe

### Inland Transport Committee

#### World Forum for Harmonization of Vehicle Regulations

#### Working Party on Pollution and Energy

#### Eighty-third session

Geneva, 1-4 June 2021

Item 3(a) of the provisional agenda

**Light vehicles: UN Regulations Nos. 68 (Measurement of the maximum speed, including electric vehicles), 83 (Emissions of M<sub>1</sub> and N<sub>1</sub> vehicles), 101 (CO<sub>2</sub> emissions/fuel consumption) 103 (Replacement pollution control devices) and 154 (Worldwide harmonized Light vehicles Test Procedures (WLTP))**

### **Proposal for a new supplement to the original version and the 01 series of amendments to UN Regulation No. 154 (Worldwide harmonized Light vehicles Test Procedures (WLTP))**

#### **Submitted by the expert from the International Organization of Motor Vehicle Manufacturers\***

The text reproduced below was prepared by the expert from the International Organization of Motor Vehicle Manufacturers (OICA). This document aims at consolidating the existing text of the Regulation with that of the reference document adopted by GRPE at the 82nd session. The modifications to the current text of the Regulation are marked in bold for new or strikethrough for deleted characters.

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\* In accordance with the programme of work of the Inland Transport Committee for 2021 as outlined in proposed programme budget for 2021 (A/75/6 (Sect.20), para 20.51.), 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

*In the original version and the 01 series of amendments*

Paragraph 3.2.36.; amend to read:

“3.2.36. "Coasting" means a functionality of either an automatic transmission or a clutch which, **when no propulsion or a slow reduction of speed is needed, decouples the engine from the drivetrain automatically and neither a propulsion energy is applied to the wheels nor recuperation energy is taken from the wheels nor mechanical braking is applied.** ~~when no propulsion or a slow reduction of speed is needed and~~ **During application of this function** which the engine may be idling or switched off.”

*Annex B5*

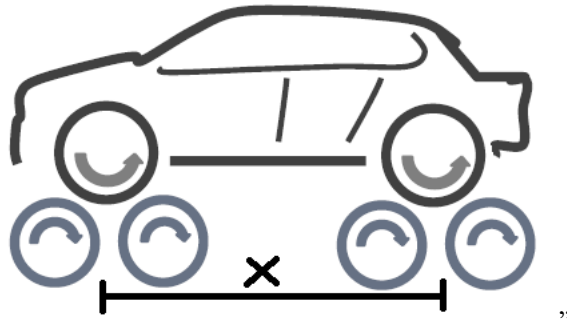
Paragraph 2.3.1.; amend to read:

“2.3.1. For testing in 4WD operation, **unless the conditions in paragraph 2.3.1.3. are met** the chassis dynamometer shall have a single roller configuration. The 4WD control system shall be designed such that the following requirements are fulfilled when tested with a vehicle driven over the WLTC.”

*Add new paragraph 2.3.1.3. to read:*

“**2.3.1.3. The usage of twin roller dynamometers with 4WD configuration should be accepted if the following conditions are met:**

- (a) **The separation distance between the front and rear sets of twin rollers of the dynamometer (X in diagram below) is set as closely as possible to match the manufacturer’s declared wheelbase of the vehicle to be tested, and**
- (b) **It shall be ensured that the setting of the separation distance between the roller sets used for dyno load setting is reproduced for vehicle testing.**



## II. Justification

1. GRPE acted quickly and cooperatively in the 82nd session to adopt a reference document bringing clarity to the application of the definition of the term “coasting” and the usage of dynamometers with twin rollers in 4WD operation.
2. The legal status of this reference document is however unknown and the text should therefore be integrated into regulatory text at the earliest opportunity.