

Proposal for amendments to UN Regulation No. 13 (Heavy vehicle braking)

This document proposes amendments to UN Regulation 13 (Heavy vehicle braking). The proposed changes to the current text of the Regulation are marked in **bold** for new, and strikethrough for deleted characters.

I. Proposal

Annex 4 table in paragraph 2.1.1. amend to read:

2. Performance of braking systems of vehicles of categories M₂, M₃ and N
- 2.1. Service braking system
- 2.1.1. The service brakes of vehicles of categories M₂, M₃ and N shall be tested under the conditions shown in the following table:

Category	M ₂	M ₃	N ₁	N ₂	N ₃	
Type of test	0-I	0-I-II or IIA	0-I	0-I	0-I-II or IIA	
Type-0 test with engine disconnected	v 60 km/h	60 km/h	80 km/h	60 km/h	60 km/h	
	s ≤	$0.15v + \frac{v^2}{130}$				
	d _m ≥	5.0 m/s ²				
Type-0 test with engine connected	v = 0.80 v _{max} but not exceeding	100 km/h	90 km/h	120 km/h	100 km/h	90 km/h
	s ≤	$0.15v + \frac{v^2}{103.5}$				
	d _m ≥	4.0 m/s ²				
	F ≤	70 daN				

II. Justification

1. This proposal concerns amendments to the UN Regulation No. 13 to correct requirements about type-IIA tests. Annex 4 paragraph 2.1.1. in the table are requirements for vehicles N₃ category only test 0-I-II. There is missed text "or IIA". There should be this same requirements as for vehicles M₃ category "0-I-II or IIA".
2. This follows from the provisions of paragraph 1.8 in Annex 4:
 - 1.8. Type-IIA test (endurance braking performance)
 - 1.8.1. Vehicles of the following categories shall be subject to the Type-IIA test:
 - 1.8.1.1. Vehicles of category M₃, belonging to Classes II, III or B as defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3).
 - 1.8.1.2. Vehicles of category N₃ which are authorized to tow a trailer of category O₄.
3. Due of that in table for vehicles category N₃ should be added text "or IIA". Same as for vehicles category M₃.