

Proposal for Amendment 2 to the Consolidated Resolution on the Construction of Vehicles

The text reproduced below was prepared by the expert from the Russian Federation for updating the UN Consolidated Resolution on the Construction of Vehicles (UN R.E.3) (document ECE/TRANS/WP.29/78/Rev.2). This text is extracted from the document ECE/TRANS/WP.29/GRB/2012/12 following the decision of the 56th GRB session (ECE/TRANS/WP.29/GRB/54, para. 28).

The proposal concerns recommended permissible levels of vehicle internal noise. The modifications to the current text of the UN R.E.3. are shown in bold characters for new or strikethrough for deleted characters.

I. Proposal

Paragraph 8.8.1.1., amend to read:

"8.8.1.1. This ... exposed.

This recommendation does not apply to motor vehicles, construction of the roof and/or glazing, which do not provide a complete isolation of the cab (passenger compartments) from the ambience."

Insert a new paragraph 8.8.1.3., to read:

"8.8.1.3. Recommendations for permissible sound level inside motor vehicles

<i>Motor vehicle</i>	<i>Permissible levels of noise, dB (A) ⁷</i>
<i>Motor vehicles for transportation of passengers</i>	
Categories M₂ and M₃	
(a) at the driver's seat	78
(b) in the passenger compartment of class B, II and III buses	80
(c) in the passenger compartment of class A and I buses	82
Categories M₂ and M₃ with the engine located in front of adjacent to the driver's seat, including special purpose buses manufactured on the chassis of trucks	80
<i>Motor vehicles for transportation of goods</i>	
Category N₁ with a laden mass up to 2000 kg	80
Category N₁ with a laden mass from 2000 kg up to 3500 kg	82
Categories N₂ and N₃	82
Categories N₂ and N₃ (trucks with a sleeping berth)	80
Semitrailers for transportation of passengers	80
<i>Trolley-buses</i>	
(a) at the driver's seat	78
(b) in the passenger compartment	82
Vehicles with the pneumatic braking system, when the compressed air is discharged from the pneumatic valves after the actuation of brakes	70

⁷ Note: The permissible noise levels for all-wheel drive motor vehicles of categories M₂G, M₃G, N₁G, N₂G, and N₃G may be exceeded by not more than 1 dB (A). “

II. Justification

Paragraphs 8.8.1. and 8.8.1.3.: These paragraphs recommend limit values on vehicle internal noise. These data will be useful in a technological level assessment of internal noise taking into account the technique specified in paragraph 8.38. Limit values are set for both the driver working space and for the passenger compartment. The proposed values are based on the statistics of a considerable number of measurements from the Russian Federation at the time of vehicle homologation within the framework of the national vehicle certification system. Several editorial corrections are also introduced.