

25 September 2024

Agreement

Concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations*

(Revision 3, including the amendments which entered into force on 14 September 2017)

Addendum 121: UN Regulation No. 122

Amendment 7

Supplement 7 to the original version of the Regulation - Date of entry into force:
15 June 2024

Uniform provisions concerning the approval of vehicles of categories M, N and O with regard to their heating systems

This document is meant purely as documentation tool. The authentic and legal binding texts is:
ECE/TRANS/WP.29/2023/100.



UNITED NATIONS

* Former titles of the Agreement:

Agreement concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958 (original version);
Agreement concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions, done at Geneva on 5 October 1995 (Revision 2).

Paragraph 6.1.1., amend to read:

"6.1.1. "Heating system" means any type of device which is designed to increase the temperature of the interior of a vehicle, including any load area and/or the perceived temperature of occupants."

Paragraph 6.1.5., amend to read:

"6.1.5. "Electric heater" means a device using electric energy from an on-board or external source to increase the temperature of the interior of the vehicle and/or the perceived temperature of occupants. Electrical devices which are installed in addition to the main heating system and whose main function is not to heat the interior of the vehicle are not considered as electric heaters according to this Regulation. For example, electric devices installed in components for the sole purpose of heating that component are not considered as electric heaters according to this Regulation."

Annex 1, Part 2, Appendix 1, Section II, amend to read:

"...

10. The vehicle is approved according to the requirements of Annex 9 (ADR): Yes/No 2/.

11. The surface temperature exceeds the limit values mentioned in paragraphs 2.1. to 2.3. of Annex 5: Yes/No"

Annex 5, paragraph 2, amend to read:

"2. Surface Temperature

The surface temperature of any part of the heating system likely to come into contact with any occupant of the vehicle during normal road use shall be measured with a contact thermometer. No such part or parts shall exceed temperature limits defined in paragraphs below unless the manufacturer can demonstrate during the type approval process that their safety concept covers for higher temperatures without increasing the risk for occupants to get burns compared to the risk caused by the temperatures below. Any such demonstration and documentation shall be appended to the test report. The possibility to exceed these temperatures, does not apply to vehicles of categories M₂ and M₃ other than for the driver and for passengers seated in the row adjacent to the driver.

2.1. The surface temperature of any part of the heating system likely to come into contact with the driver of the vehicle during normal road use is limited to 70°C for uncoated metal or 80°C for other materials.

2.2. In the case of vehicles of categories M₁ and N, any part of the system likely to come into contact with seated passengers during normal road use of the vehicle, with the exception of the outlet grille, is limited to 110 °C.

2.3. In the case of vehicles of categories M₂ and M₃, any part of the system likely to come into contact with passengers during normal road use of the vehicle is limited to 70 °C for uncoated metal or 80 °C for other materials."
