

Consolidated editorial changes to ECE51

6.2.3. Additional sound emission provisions

The additional sound emission provisions apply to vehicles of categories M1 and N1 only.

The purpose of Annex 10 is to ensure the sound emission of the vehicle under normal driving conditions different from the conditions of the type approval test in Annex 3 shall not differ considerably from what can be expected from the Annex 3 test result for this specific vehicle.

They are preventive requirements intended to also cover driving conditions of the vehicle in real traffic, which can be environmentally relevant concerning their sound emission and which differs from those during type approval, described in Annex 3.

6.2.3.1. The vehicle manufacturer shall not intentionally alter, adjust, or introduce any mechanical, electrical, thermal, or other device or procedure solely for the purpose of fulfilling the noise emission requirements as specified in this regulation and as determined by the test procedure of Annex 3 but which will not be operational during typical on-road operation. These measures are commonly referred to as "cycle detection".

6.2.3.1.1. This shall not prevent the installation on a vehicle of any control device, function, system, or measure if:

- it is activated only for such purposes as engine protection, cold starting or warming up, or
- it is activated only for such purposes as operational security or safety and limp-home strategies, or
- it is required to fulfil this and/or other regulations

6.2.3.2. The vehicle shall meet the requirements of Annex 10

6.2.3.3. In the application for type approval the manufacturer shall provide a statement that the vehicle type to be approved complies with the requirements of paragraph 6.2.3 of this Regulation. The type approval authority may require any test prescribed in this regulation.

6.2.3.3.1 The following is an example compliance statement:
"(Name of manufacturer) attests that vehicles of this vehicle type comply with the requirements of paragraph 6.2.3 of Regulation number 51. (Name of manufacturer) makes this statement in good faith, after having performed an appropriate engineering evaluation of the sound emission performance of the vehicles over the applicable range of operating conditions.

Annex 10

[ADDITIONAL SOUND EMISSION PROVISIONS applicable for M1 and N1 only

During development of the provisions for off cycle emissions the technical provisions of UNECE Regulation No. 51.02 series of amendments shall be fulfilled.]

1. General

The requirements of paragraph 6.2.3. are deemed to be fulfilled, if the vehicle manufacturer can show to the satisfaction of the technical service that the following requirement is fulfilled.

The technical service shall have the possibility to carry out practical tests .

2. Requirement

2.1. Documentation

The manufacturer shall provide a documentation that gives access to the design of the noise reduction system and the means by which it controls the noise output.