

Proposal to amend text in main body on ASEP

Issued by the Netherlands

6.2.3. Additional sound emission provisions

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

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.

The manufacturer shall explain to the satisfaction of the technical service that the requirements of 6.2.3.1 to 6.2.3.4. are met.

- 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".
- 6.2.3.2. 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 type approval test result for this specific vehicle with regard to technical practicability.
- 6.2.3.3. The vehicle manufacturer shall not install any control device, function, system or measure that could affect the noise reducing capabilities of the exhaust silencing system, the intake silencing system and the engine enclosure*. This behavior is commonly referred to as "non-linear noise control strategy". Such device, function, system or measure can only be allowed, provided that it changes the noise emission of the vehicle to a level which is proven to be lower or equal compared to the situation as tested in Annex 3**.**

~~6.2.3.4. Any control device, function, system or measure that could affect the noise output may be installed on a vehicle provided that:~~
~~[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]~~

6.2.3.4. Notwithstanding the requirements in 6.2.3.1. to 6.2.3.3., the vehicle shall meet the requirements of Annex 10.

- * an example of such a device is a flap in the exhaust system which bypasses the exhaust silencer at high engine speeds in order to improve engine power and/or sound design.**
- ** an example of such a device is a shutter in front of the cooling radiator of a delivery vehicle, which is normally open to provide sufficient cooling, but which will be closed during low speed delivery operations, in order to reduce the disturbance of the neighbours of shopping regions.**