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GB 4569-2026
Replaces GB 4569-2005, GB 16169-2005

**Limits and Measurement Methods for Noise Emitted by
Motorcycles (CHINA III)**
摩托车噪声限值及测量方法（中国第三阶段）

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Standard Institute under the Ministry of Ecology and Environment)*

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FOREWORD

For the purpose of implementing the Ecological and Environmental Code of the People's Republic of China, this standard is established to strengthen the control and management of noise emitted by motorcycles, and to improve the environmental quality.

This standard specifies the limits and measurement methods for road running noise and stationary noise of motorcycles and mopeds.

This standard specifies the requirements and methods for type test of motorcycles and mopeds, as well as the methods for checking and determining the conformity of production and in-use vehicle inspection.

The test methods in this standard are developed by reference to the relevant technical provisions in the "Uniform provisions concerning the approval of three-wheeled motorcycles with regard to noise" (UN Regulation No. 9-Rev. 4), the "Uniform provisions concerning the approval of two-wheeled motorcycles with regard to noise" (UN Regulation No. 41-Rev. 3), and the "Uniform provisions concerning the approval of two-wheeled mopeds with regard to noise" (UN Regulation No. 63-Rev. 1).

This standard is a revision to GB 4569-2005 "Limit and measurement methods of noise emitted by stationary motorcycles and mopeds" and GB 16169-2005 "Limits and measurement method of noise emitted by accelerating motorcycles and mopeds". The main revisions are as follows:

- Scope of application, i.e., this standard is applicable to type test, conformity of production (CoP) check, and in-use vehicle inspection of motorcycles and mopeds;
- Noise test methods for hybrid electric motorcycles, hybrid electric mopeds, electric motorcycles and electric mopeds;
- Term and definition of the power-to-mass ratio index (PMR), and classify the measurements for noise emitted by motorcycles running on road based on the PMR;
- For two-wheeled motorcycles, calculate the actual noise road emitted by motorcycles running on road based on full-throttle acceleration noise test and constant-speed noise test;
- Requirements for measuring additional noise from two-wheeled and three-wheeled motorcycles;
- Limits for noise emitted by two-wheeled motorcycles running on road;
- With respect to road running noise test, the corrected background noise values, number of noise measurements, and value requirements;
- Requirements for test road surface used for measuring road running noise; the requirements for road surface refer to the technical specification in Appendix CA "Requirements for Test Road Surface for Noise Measurements";
- Technical requirements for stationary noise measuring instruments, measurement sites, test methods, and data processing, etc.;
- Stationary noise limit requirements;
- Technical requirements for conformity of environmental protection, provisions on the noise warranty period, and administrative requirements for in-use vehicle noise inspection and environmental protection information disclosure.

As from the implementation date of this standard, GB 4569-2005 "Limit and measurement methods of noise emitted by stationary motorcycles and mopeds" and GB 16169-2005 "Limits and measurement method of noise emitted by accelerating motorcycles and mopeds" shall be abolished.

The Annex A and Annex C through F of this standard are normative, while Annex B is informative.

This standard was organized and formulated by the Department of Atmospheric Environment and the Department of Laws and Standards of the Ministry of Ecology and Environment.

This standard was drafted by National Motorcycle Quality Inspection and Testing Center, Tianjin Internal Combustion Engine Research Institute (Tianjin Motorcycle Technology Center), Chinese Research Academy of Environmental Sciences, and National Motor Vehicle Product Quality Inspection and Testing Center (Shanghai).

This standard was approved by the Ministry of Ecology and Environment on January 26, 2026.

As from the issuance date of this standard, the type test can be carried out in accordance with this standard.

This standard shall come into effect on January 1, 2029.

This standard is interpreted by the Ministry of Ecology and Environment.

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Limits and Measurement Methods for Noise Emitted by Motorcycles (CHINA III)

1 SCOPE

This standard specifies the limits and measurement methods for road running noise and stationary noise of motorcycles and mopeds.

This standard specifies the requirements and methods for type test of motorcycles and mopeds, as well as the methods for checking and determining the conformity of production and in-use vehicle inspection.

This standard applies to motorcycles and mopeds, including the motorcycles and mopeds equipped with a positive-ignition engine (PIE) or a compression-ignition engine (CIE), hybrid electric motorcycles and mopeds, as well as electric motorcycles and mopeds.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB/T 3785.1	Electroacoustics—Sound level meters—Part 1: Specifications
GB/T 5378	Methods of road test for motorcycles and mopeds
GB/T 6003.1	Test sieves—Technical requirements and testing—Part 1: Test sieves of metal wire cloth
GB/T 8170	Rules of rounding off for numerical values & expression and judgement of limiting values
GB/T 15173	Electroacoustics—Sound calibrators
GB/T 18385	Battery electric vehicles—Power performance—Test method
GB/T 20076	Measurement methods of maximum torque and maximum net power of engines for motorcycles and mopeds
GB/T 22157	Acoustics—Specification of test tracks for measuring noise emitted by road vehicles and their tyres
HJ 1350	Technical specification for vehicle environmental information disclosure
QC/T 792	Motors and controllers for electric motorcycles and electric mopeds

3 TERMS AND DEFINITIONS

For the purposes of this standard, the following terms and definitions apply.

3.1 vehicle of category L₁, L₂, L₃, L₄ and L₅

Category L₁: the moped with two wheels installed on the longitudinal median plane of the vehicle;

Category L₂: the moped which is fitted with three wheels, where one wheel is located on the longitudinal median plane, while the other two wheels are arranged symmetrically relative to the longitudinal median plane;

Category L₃: the motorcycle with two wheels installed on the longitudinal median plane of the vehicle;

Category L₄: the motorcycle which is equipped with a sidecar on the right side of a two-wheeled

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