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National Standard of the People's Republic of China

GB 20073 – 2006

Replaces GB/T 5382.1 – 1996 and
partially replaces GB 17355 -1998

**Performance and measurement method for braking of
motorcycles and mopeds**

摩托车和轻便摩托车
制动性能要求及试验方法

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Implementation date: July 01, 2006

**This standard is jointly issued by the General Administration of
Quality Supervision, Inspection and Quarantine of the People's
Republic of China and Standardization Administration of The People's
Republic of China**

Foreword

For this standard, all of the clauses/sub-clauses is mandatory.

This standard is not equivalent (NEQ) to United Nations Economic Commission for Europe (ECE) Regulation ECE R78.02, *Uniform Provisions Concerning the Approval of Vehicles of Category L with Regard to Braking (E/ECE/324, E/ECE/TRANS/505, Rev.1/Add.77/Amend.2, April 11, 1995*, English version) which was entered into force on March 21, 1995.

The main changes between this standard and ECE – R78 are as follows:

- For determination of deceleration, the calculation method specified in ECE R78.04 issued on February 28, 2003 is supplemented.
- With consideration of China's reality, modification is made for motorcycles and mopeds according to ECE R78.01 issued on November 28, 1990.
- The type approval of administrative requirements such as application of approval, approval, modification and extension of approval, penalties for non-conformity of production, and conformity of production are cancelled.
- Notice of type approval is cancelled.
- Arrangements of approval marks are cancelled.

This standard replaces GB/T 5382.1 - 1996, *Test method of brake performance for motorcycles and mopeds - Stopping distance*, and GB 17355 – 1998, *The target limit brake performance for motorcycles and mopeds*, Sub-clause 4.1 i.e. Target limit of stopping distance.

Compared to GB/T 5382.1 – 1996 and GB 17355 – 1998, Sub-clause 4.1, i.e. Target limit of stopping distance, the main changes in this standard are as follows:

- The test methods and performance required are changed greatly and internationally scientific and advanced test and evaluation manner are adopted.
- The braking test method prescribed in this standard includes Type-0 test (service braking) (Sub-clause A.1.4) and Type-I test (fade test) (Sub-clause A.1.6) and GB/T 5382. 1 – 1996 specifies the stopping distance test (Sub-clauses 5. 2 to 5. 7).
- The braking performance prescribed in this standard is required to be determined by the stopping distance and/or the mean fully developed deceleration (Sub-clauses A.2.1 to A.2. 5) but GB 17355 – 1998 specifies that it is determined by the stopping distance (Sub-clause 4.1).
- The test methods and performance required are organized in the same standard.

For in-process motorcycles and mopeds, this standard shall be executed after 12 months since the implementation date of it.

For this standard, Annexes A, B, and C are normative.

This standard was proposed by the National Development and Reform Commission of the People's Republic of China.

This standard is under the jurisdiction of National Technical Committee on Road Vehicles of Standardization Administration of China.

The drafting organization of this standard is National Motorcycle Quality Supervisory and Testing Center.

The chief drafting staffs of this standard include Sun Haizhou, Duan Baomin, Su Xing'an, Zong Hanlin, Li Xiaozhou, and Wang Zhongtai.

This standard replaces the following historical editions issued:

- GB 5382 - 1985, GB/T 5382.1- 1996, and GB 17355 – 1998.

Performance and measurement method for braking of motorcycles and mopeds

1 Scope

This standard specifies the braking performance required and test methods for motorcycles and mopeds.

This standard applies to motorcycles and mopeds.

This standard does not cover mopeds with a maximum design speed not exceeding 25 km/h and mopeds fitted for invalid drivers.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of this standard. For dated References, subsequent amendments to, or revisions of, any of these publications, not including contents of corrigendum, do not apply. However, all the parties to the agreement reached as per this part of this standard are encouraged to investigate the possibility of applying the latest editions of the standards indicated below. For undated references, the latest edition of the normative document referred to applies.

GB/T 5359.5, Term for motorcycles and mopeds - Mass of vehicle with two wheels (GB/T 5359.5 - 1996, neq ISO 6726: 1988)

GB/T 5359.6, Term for motorcycles and mopeds - Mass of vehicle with three wheels (GB/T 5359.5 - 1996, neq ISO 9132: 1990)

GB/T 15089, Classification of power-driven vehicle and trailers

3 Terms and definitions

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

See GB/T 15089 for the definitions of vehicles of Category L.

3.1

braking device

the combination of parts whose function is progressively to reduce the speed of a moving vehicle or to bring it to a halt, or to keep it stationary if it is already halted; these functions are specified in Sub-clause 4.1.2 below. This device consists of the control, the transmission, and the brake proper.

3.2

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