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NATIONAL STANDARD OF THE PEOPLE'S

REPUBLIC OF CHINA

中华人民共和国国家标准

GB/T 18388-2005

Replace GB/T 18388-2001

**Electric Vehicles – Engineering Approval Evaluation
Program**

电动汽车 定型试验规程

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**General Administration of Quality Supervision, Inspection and
Issued by Quarantine of the People's Republic of China**

Standardization Administration of the People's Republic of China

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Foreword

This Standard will replace GB/T 18388-2001 *Electric vehicles-Engineering approval evaluation program*.

Comparison with GB/T 18388-2001, main changes of this Standard are as follows:

- Added the provisions of refer to GB 1495-2002 *Limits and measurement methods for noise emitted by accelerating motor vehicles* when carry out noise test emitted by accelerating motor vehicles. (See 4.1.1)
- Added the provisions of refer to GB 11555-1994 *Passenger cars - Windshield demisters - Performance requirements* when carry out performance test of windshield demisters. (See 4.1.2)
- Added the provisions of refer to GB 11556-1994 *Passenger cars - Windshield defrosters - Performance requirements* when carry out performance test of windshield defrosters. (See 4.1.3)
- Changed the running test in 4.3, rearranged the driving range. Total driving range of reliability running test is 50% corresponding to approval evaluation program of diesel vehicle; if the total driving range lower than 5000km, performed as per 5000km. 35% reinforced bad road in distribution ratio of range, 65% level road and highway.

Annex A of this Standard is normative annex.

This Standard was proposed by National Technical Committee on Road Vehicles of Standardization Administration of China.

This Standard was under the jurisdiction of N National Technical Committee on Road Vehicles of Standardization Administration of China.

Draft units of this Standard are China Automotive Technology and Research Center.

Main drafters of this Standard are Liu Guibin, Chen Song, He Yuntang and Zhao Ziliang.

The previous edition of the part replaced by these following one: GB/T 18388-2001.

Electric Vehicles - Engineering Approval Evaluation Program

1 Scope

This standard specifies the implement conditions, test items, test methods, basis of evaluation and contents of test reports of new products design and approval evaluation test of pure electric vehicles.

This standard is applicable to pure electric vehicles.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 18384.1 Electric vehicles-Safety specification-Part 1:On-board energy storage

GB/T 18384.2 Electric vehicles-Safety specification-Part 2: Functional means and protection against failures

GB/T 18384.3 Electric vehicles-Safety specification-Part 3: Protection of persons against electric hazards

GB/T 18385 Electric vehicles-Power performance-Test method

GB/T 18386 Electric vehicles-Reference energy consumption and range-Test procedures

GB/T 18387 Performance levels and methods of measurement of magnetic and electric field strength from electric vehicles, broadband, 9 kHz to 30 MHz

The referenced mandatory standards of this Standard see Annex A.

3 Implementing Conditions

3.1 The following conditions shall be provided by fore the evaluation:

- a) Product technical conditions and specifications;
- b) Operation and maintenance instruction manual;
- c) Test reports or technical documents that can proof that the sample vehicle for evaluation conforms to the test requirements of compulsory standards already issued by the State;
- d) Test reports relevant to main vehicle assembly (battery system, electric machine and its controller system, engine, vehicle-mounted charging system and others);
- e) Other necessary materials and technical documents.

3.2 The vehicle for evaluation shall conform to requirements of the design drawing and technical documents.

3.3 Number of vehicle samples for the engineering approval evaluation: 1.

3.4 After having the above conditions, the manufacturer can apply to relevant department for the engineering approval evaluation, which shall be carried out by the engineering approval evaluation institute approved by the state. For the engineering approval evaluation, the outline shall be compiled according to this Standard. In the test process, if one of the following situations happens,

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