

Translated English of Chinese Standard: GB/T18388-2005

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NATIONAL STANDARD
OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 18388-2005

Replacing GB/T 18388-2001

Electric Vehicles – Engineering Approval
Evaluation Program
电动汽车 定型试验规程

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Foreword

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

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

- Add the provision - referring to GB 1495-2002 *Limits and measurement methods for noise emitted by accelerating motor vehicles*, when carrying out noise test emitted by accelerating motor vehicles. (See 4.1.1)
- Add the provision - referring to GB 11555-1994 *Passenger cars - Windshield demisters - Performance requirements*, when carrying out performance test of windshield demisters. (See 4.1.2)
- Add the provision - referring to GB 11556-1994 *Passenger cars - Windshield defrosters - Performance requirements*, when carrying out performance test of windshield defrosters. (See 4.1.3)
- Change the driving test content in 4.3. Rearrange the driving mileage. Total driving mileage of reliability driving test is 50% of the total driving mileage of reliability driving that corresponds to engineering approval evaluation program of diesel vehicle. If the total driving mileage is lower than 5000km, perform it as 5000km. In mileage distribution, 35% is bad-road, 65% is flat-road and highway.

Annex A of this Standard is normative.

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

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

Drafting organization of this Standard: China Automotive Technology and Research Center.

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

The previous edition replaced by this Standard: GB/T 18388-2001.

Electric Vehicles – Engineering Approval Evaluation Program

1 Scope

This standard specifies the implementing conditions, test items, test methods, basis of evaluation, and test reports of new product 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 part of 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 mandatory standards cited by this Standard are shown in Annex A.

Annex A

(Normative)

Mandatory Standards

The articles contained in the following documents have become part of 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 1495 Limits and measurement methods for noise emitted by accelerating motor vehicles
- GB 1589 Limits of dimensions, axle load and masses for road vehicles
- GB 4094 Motor vehicles - Symbols for controls, indicators and tell-tales
- GB 4599 Photometric characteristics of headlamps for motor vehicles
- GB 4660 Photometric characteristics of front fog lamps for motor vehicles
- GB 4785 Prescription for installation of the external lighting and light signalling devices for motor vehicles and their trailers
- GB 5920 Photometric characteristics of front and rear position lamps, end-outline marker lamps and stop lamps for motor vehicles and their trailers
- GB 7063 The wheel guards of motor vehicles
- GB 7258 Safety specifications for motor vehicles operating on roads
- GB 8410 Flammability of automotive interior materials
- GB 9656 Safety glasses for road vehicles (for certification)
- GB 9743 Passenger car tyres
- GB 9744 Truck tyres
- GB 11550 Motor vehicles - Seats head restraints performance requirements and test methods
- GB 11552 Passenger car--Internal protrusions

- GB 11554 Photometric characteristics of rear fog lamps for motor vehicles and their trailers
- GB 11555 Passenger cars-Windshield demisters-Performance requirements
- GB 11556 Passenger cars-Windshield defrosters-Performance requirements
- GB 11557 The stipulation protecting drivers from being injured by motor vehicle steering mechanism
- GB 11562 Motor vehicles — Forward visibility for drivers — Requirements and measurement methods
- GB 11564 Retro reflector for motor vehicles
- GB 11565 Passenger cars—Windshield wipers—Wiped areas
- GB 11566 Passenger car—External protrusions
- GB 11567.1 Motor vehicles and trailers-Lateral protection requirements
- GB 11567.2 Motor vehicles and trailers-Rear underrun protection requirements
- GB 12676 Road vehicle--Braking systems--Structure, performance and test methods
- GB 13057 The strength of the seats and their anchorages of passenger vehicles
- GB 13094 The safety requirements for bus construction
- GB 14023 Vehicles, motorboats and spark-ignited engine-driven devices--Radio disturbance characteristics--Limits and methods of measurement
- GB 14166 Safety belts and restraint systems for adult occupants of motor vehicles
- GB 14167 Motor vehicles—Safety belt anchorages
- GB 15082 Motor vehicles—Speed meters
- GB 15083 Motor vehicles—Seat systems—Strength requirements and test methods
- GB 15084 Motor vehicles—Rear view mirrors—Requirements of performance and installation
- GB 15085 Motor vehicles—Windshield wipers and washer systems—Performance requirements and test methods
- GB 15086 Motor vehicles—Door locks and door hinges—Performance requirements and test methods
- GB 15235 Photometric characteristics of reversing lamps for motor vehicles and their

trailers

GB 15740 Motor vehicle — Protective devices against unauthorized use —
Performance requirements

GB 15741 The licence plates (crackets) and its position on motor vehicles and trailer

GB 15742 Performance requirements and test methods of horn for motor vehicles

GB 15743 Passenger car—Strength of side doors

GB 15766.1 Lamps for road vehicles. Dimensional electrical and luminous
requirements

GB 16735 Road vehicles--Vehicle identification number (VIN)--Location and
attachment

GB 16897 Brake hose

GB 17354 Front and rear protective devices for passenger cars

GB 17509 Photometric characteristics of direction indicators for motor vehicles and
their trailers

GB 17675 Steering system of motor vehicles--Basic requirements

GB 18099 Photometric characteristics of side-marker lamps for motor vehicles and
their trailers

GB 18409 Photometric characteristics of parking lamps for power-driven vehicles

GB 18655 Limits and methods of measurement of radio disturbance characteristics
for the protection of receivers used on board vehicles

GB 18986 The safety requirements for light bus construction

GB 19151 Warning triangles for motor vehicle

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