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中华人民共和国国家标准
NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 7258-2017
Replaces GB 7258-2012

**Technical Specifications for Safety of Power-Driven
Vehicles Operating on Roads**
机动车运行安全技术条件

Issued on 2017-09-29

Implemented on 2018-01-01

Jointly Issued by

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

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Safety Specifications for Power-driven Vehicles Operating on Roads

1 SCOPE

This standard specifies the basic technical requirements concerning operation safety of complete vehicle, principal assemblies and safety protection devices, etc. of power-driven vehicles, as well as the additional requirements for fire engines, ambulances, engineering rescue vehicles, police vehicles and vehicles for handicapped driving.

This standard is applicable to all the power-driven vehicles operating on roads in China, but not applicable to tramcars or the wheeled mobile machinery for special purpose which is not designed or manufactured for travelling on road and is mainly used on closed roads and sites for construction.

Note: tramcar refers to a road vehicle operating on track, propelled by electric motor and supplied with overhead grid.

2 NORMATIVE REFERENCES

The following documents are indispensable for the application of this standard. For dated references, only the dated edition is applicable to this document. For undated references, the latest editions of the normative documents (including all the amendments) are applicable to this document.

GB 811	Helmets for Motorcyclists
GB 1589	Limits of dimensions, axle load and masses for road vehicles
GB/T 2408-2008	Plastics – Determination of the burning behavior of horizontal and vertical specimens
GB/T 3181	Color standard for paint film
GB 4094	Motor vehicles – Symbols for controls, indicators, and tell-tales
GB 4599	Photometric characteristics of headlamps for motor vehicles
GB 4785	Installation specifications of the external lighting and signaling devices for motor vehicles and their trailers
GB 5948	Photometric characteristics of incandescent-filament headlamps for motorcycles
GB 7956.1	Fire Fighting Vehicles - Part 1: General Technical Specifications
GB 8108	Vehicle-used electronic siren
GB/T 8196	Safety of Machinery – Guards – General requirements for the design and construction of fixed and movable guards
GB 8410	Flammability of automotive interior materials
GB 9656	Safety Glazing Material for Motor Vehicle
GB 10396	Tractors and Machinery for Agricultural and Forestry, Power-Driven Machinery for Lawn and Garden – Safety Signs and hazard figures – General
GB 11567	Side, Rear and Underrun Protection Requirements for Motor Vehicles and Trailers
GB/T 12428	Laden mass calculation of buses
GB 12676	Vehicle braking system, structure, performance and test method
GB 13057	Strength of bus seats and anchorage fittings
GB 13365	Spark Arrester
GB 13392	The vehicle mark for road transportation dangerous goods
GB 13954	Warning Lamps for Police Cars, Fire Engines, Ambulance and Rescue Vehicles
GB/T 14172	Static roll stability test method for motor vehicles
GB 15084	Motor vehicles – Rear view mirrors – Requirements of performance and installation
GB 15365	Motorcycle: graphical signs for controls, indicators, and signaling devices
GB 16735	Road vehicle – Vehicle identification number (VIN)

GB 17352	Rear-view Mirror Performance and Its Installation Requirements for Motorcycle and Moped
GB 17578	Provisions of Strength for the Superstructure of Bus
GB/T 17676	Natural Gas Vehicle and Liquefied Petroleum Gas Vehicle - Identification Marks
GB 18100.1	Provisions for installation of lighting and light-signaling devices for motorcycles—Part 1: Two wheels motorcycle
GB 18100.2	Provisions for installation of lighting and light-signalling devices for motorcycles—Part 2: Two wheels moped
GB 18100.3	Provisions for installation of lighting and light-signalling devices for motorcycles—Part 3: Three-wheel motorcycles
GB/T 18411	Road Vehicles - Manufacturer's Plate
GB 18447.1	Safety Requirements for Tractors - Part 1: Wheeled Tractors
GB 18564.1	Road Tanker for Dangerous Liquid Goods Transportation - Part 1: Technical Requirements of Atmospheric Pressure Metal Tank
GB 18564.2	Road Tanker for Dangerous Liquid Goods Transportation - Part 2: Technical Requirements of Atmospheric Pressure Non-metal Tank
GB/T 18697	Acoustics - Measurement of Noise Inside Motor Vehicles
GB/T 19056	Vehicle Travel Data Recorder
GB 19151	Triangular Warning Board for Motor Vehicle
GB 19152	Motor Vehicle Headlamps Emitting A Symmetrical Passing Beam or A Driving Beam or Both
GB 20074	External Projections from Motorcycles and mopeds
GB 20075	Hand-holds on Motorcycles with Two Wheels
GB 20300	Safety Specifications for Road Transportation Vehicle of Explosive Substance and Chemical Toxic Substance
GB 21259	Headlamps Equipped with Gas-discharge Light Sources for Motor Vehicle
GB 21668	Provisions of Vehicles for the Carriage of Dangerous Goods with Regard to Their Specific Constructional Features
GB 23254	Retro-reflective Markings for Trucks and Trailers
GB 24315	Marking for School Bus
GB 24406	The Strength of Seats and Their Anchorages of Special School Bus for Schoolchildren
GB 24407	Safety Technical Requirements for Special School Bus
GB/T 24545	Requirement of Speed Limitation System for Motor Vehicles
GB/T 25978	Road Vehicle Plate and Label
GB 25990	Rear-marking Plates for Vehicles
GB 25991	LED Headlamp for Motor Vehicles
GB 26511	Front Underrun Protective Requirements for Commercial Vehicle
GB/T 26774	Technical Specification for Car Carriers
GB/T 30036	Adaptive Front-lighting System for Motor Vehicles
GB 30678	Safety Signs and Information Symbols for the Use of Bus
GB/T 31883	Road Vehicles - Drawbar Couplings, Drawbar Eyes, Fifth Wheel Kingpins, Hook Couplings and Toroidal Eyes - Wear Limits for In-use Mechanical Couplings
GB 34655	Requirements on Fire Extinction Equipment Configuration of Bus
GA 524	Specification of 2004 Style Police Vehicle Unified Appearance Coating
GA 525	Specification of 2004 Style Police Motorcycle Unified Appearance Coating
GA 923	Specification of Special Police Vehicle Unified Appearance Coating
GA 1264	Fixed Fire Extinguishing Systems for Compartment of Bus

3 TERMS AND DEFINITIONS

For the purpose of this Standard, the following terms and their definitions apply.

3.1

机动车 **power-driven vehicle**

Means any dynamically propelled or towed wheeled vehicle which, running on roads, is intended for carrying passengers and/or goods or for undertaking special engineering operations, including motor vehicles and combination vehicles, motorcycles and mopeds, tractors towing trailer for transportation, wheeled mobile machinery for special purposes, and trailers.

3.2

汽车 **motor vehicle**

Means any dynamically propelled vehicle which, with four or more wheels and not running on track, including the vehicles linked up with power line (e.g. trolleybus), is mainly used for:

- Carrying passengers and/or cargo (goods);
- Vehicles for towing cargo (goods) or special-purpose vehicles;
- Special operation.

The term also includes the following dynamically propelled tri-wheel vehicles that are not running on track:

- a) Any tri-wheel vehicle without a cab, intended for carrying goods, of which the complete vehicle kerb mass exceeds 400 kg.
- b) Any tri-wheel vehicle, without a cab and without the structure or function for carrying goods, which is designed and constructed to accommodate up to two passengers (including driver), of which the complete vehicle kerb mass exceeds 600 kg.
- c) Any tri-wheel vehicle with a cab, of which the complete vehicle kerb mass exceeds 600 kg.

3.2.1

载客汽车 **passenger vehicle**

Means the motor vehicle which is primarily designed and constructed for carrying passengers, including the vehicles which are equipped with special device or equipment but primarily intended for carrying passengers.

3.2.1.1

乘用车 **passenger car**

Means the motor vehicle, which is primarily designed and constructed for carrying passengers and their luggage and/or temporary articles, with up to 9 seats (including the driver's seat). It may be equipped with certain special device or equipment and used for towing a central axle trailer.

3.2.1.2

旅居车 **motor caravan**

Means the motor vehicle which is constructed to include sleeping facilities (may be converted from tables and chairs) and other necessary living accommodation and which is intended for touring and camping.

3.2.1.3

客车 **bus**

Means the motor vehicle, which is primarily designed and constructed for carrying passengers and their luggage, with more than 9 seats (including the driver's seat). It is classified into two types, i.e. bus without standing passenger area and bus with standing passenger area, depending on whether a standing passenger area is present.

3.2.1.3.1



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