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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Replacing GB 24407-2012

Safety technical specifications of special school bus

专用校车安全技术条件

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1 Scope

GB 24407-2025 is the Chinese national standard on safety technical specifications of special school bus, in the field of road vehicles engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 December 2025 by the State Administration for Market Regulation; Standardization

Administration of China, and takes effect on 1 July 2027. Classification: ICS 43.020, CCS T59. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the type division, technical requirements, same type determination, and standard implementation for special school buses. This document applies to special school buses.

2 Normative References

The contents of the following documents constitute indispensable clauses of this document through the normative references in the text. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB 5768.2-2022 Road Traffic Signs and Markings - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 12428 and GB 13094 and the following are applicable to this document.

3.1 special school bus A dedicated passenger vehicle designed, manufactured, and technically characterized specifically for the organized transport of preschool children aged 3 years and older or students in the compulsory education stage. [Source: GB/T 3730.1-2022, 5.6.1]

3.1.1 special school bus for infants A special school bus for transporting preschool children aged 3 years and older.

3.1.2 special school bus for primary students A special school bus for transporting primary students.

3.1.3 special school bus for primary and junior middle school students A special school bus for transporting students in the compulsory education stage (primary and junior middle school students).

3.2 stopping signal plate A plate used to warn other vehicles not to overtake a stopped school bus awaiting students to board or alight.

3.3 passengers and crew The collective term for passengers, the driver and attendants on a special school bus. [Source: GB/T 12428-2023, 3.1, modified]

3.4 mass of the vehicle in running order The mass of a special school bus in its operational

state when not carrying passengers and luggage. NOTE. it includes the vehicle's curb weight, and the mass of the driver and attendants. [Source: GB 13094-2025, 3.20, modified]

4 Type Division of Special School Buses

The classification and basic characteristics of special school buses in accordance with vehicle structure and purpose are shown in Table 1.

5.1 Appearance Markings and Main Structural Dimensions

5.1.1 The appearance markings of special school buses shall comply with the provisions of GB 24315. At the time of exiting factory, school bus numbers are permitted not to be painted on.

5.1.2 Special school buses shall have a collision safety structure at the front. If it is a front transverse engine, the engine crankshaft centerline shall be located in front of the foremost point of the front windshield glass; if it is a front longitudinal engine, the centerline of the first and second cylinders shall be located in front of the foremost point of the front windshield glass. If the front collision performance of large and medium-sized special school buses is not lower than the first two structures, the engine arrangement form is not limited. NOTE. the centerline of the first and second cylinders refer to the centerline of the distance between the cylinder centers of the first and second cylinders.

5.1.3 Special school buses shall not be articulated buses or double-decker buses.

5.1.4 The height of special school buses shall not exceed

5.1.5 If there is a side luggage compartment, the top of the luggage compartment shall be less than

1.0 m above the ground.

5.1.6 Special school buses shall not be equipped with external luggage racks.

5.1.7 Special school buses shall not have holes inside or outside that could easily trap the fingers of infants and primary students, and shall not have any protrusions, dents, sharp corners or other defects that could cause injury.

5.2 Power Performance The power-to-weight ratio of the special school buses shall not be less than

9.0 kW/t. NOTE. the power-to-weight ratio is the ratio of the engine's maximum net power (or

0.9 times the engine's rated power/calibrated power) to the maximum permissible gross weight of the special school buses.

5.3 Mass and Maximum Number of Passengers and Crew

5.3.1 The mass of each infant in a special school bus for infants is calculated as 30 kg; the mass of each student in a special school bus for primary students is calculated as 48 kg; the mass of each student in a special school bus for primary and junior middle school students is calculated as 53 kg; the mass of each attendant is calculated as 69 kg; the mass of the driver is calculated as 75 kg.

5.3.2 The maximum number of passengers and crew of a special school bus for infants shall not exceed 45 people; the maximum number of passengers and crew of a special school bus for primary students and a special school bus for primary and junior middle school students shall not exceed 56 people.

5.4 Steering System School buses shall be equipped with a power-assisted steering device.

5.5 Braking System

5.5.1 Special school buses shall be equipped with anti-lock braking devices conforming to the provisions of GB/T 13594.

5.5.2 All wheels of special school buses shall be equipped with disc brakes.

5.5.3 Special school buses longer than 8 m shall be equipped with retarders or other auxiliary braking devices. The performance of the auxiliary braking devices shall meet the Type IIA test requirements specified in GB 12676-2014.

5.5.4 Special school buses equipped with advanced emergency braking system (AEBS) shall comply with the provisions of GB/T 38186.

5.6 Transmission System

5.6.1 Special school buses shall be equipped with a speed limiting system conforming to the provisions of GB 24545. The maximum speed set at the time of exiting factory shall not exceed 80 km/h.

5.6.2 The transmission shaft shall have protective devices to prevent danger caused by malfunctions such as slippage or breakage of its sliding connection (spline or other similar devices).

5.7 Driving System

5.7.1 Special school buses shall be equipped with tubeless radial tires.

5.7.2 Special school buses with a gross weight exceeding 4,500 kg shall have dual rear tires.