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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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Replaces GB 24407-2012

Safety Technical Specifications of Special School Bus
专用校车安全技术条件

(English Translation)

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FOREWORD

This document is drafted in accordance with the rules given in GB/T 1.1-2020 *“Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents”*.

This document replaces GB 24407-2012 “The safety technique specifications of special school”. In addition to structural adjustments and editorial modifications, the following significant technical changes have been made with respect to GB 24407-2012:

- Modified the definitions of terms “special school bus”, “special school bus for infants”, “special school bus for primary students”, “special school bus for primary and junior middle school students” and “passengers and crew” (See 3.1, 3.1.1–3.1.3 and 3.3 vs. 3.1–3.4 and 3.12 of GB 24407-2012);
- Deleted the terms “exit”, “emergency exit”, “emergency door”, “emergency window”, “escape hatch” and “‘front’ and ‘rear’” (See 3.6–3.11 of GB 24407-2012);
- Added the term “mass of the vehicle in running order” (See 3.4 of GB 24407-2012);
- Modified the requirements for appearance markings of special school bus (See 5.1.1 vs. 5.1.1 of GB 24407-2012);
- Modified the requirements for vehicle height of special school bus (See 5.1.4 vs. 5.1.4 of GB 24407-2012);
- Modified the requirements for quality of attendant (See 5.3.1 vs. 5.3.1 of GB 24407-2012);
- Modified the requirements that the special school buses shall be equipped with disc brakes (See 5.5.2 vs. 5.5.2 of GB 24407-2012);
- Added the requirements for advanced emergency braking system (AEBS) (See 5.5.4);
- Modified the requirements for vehicle speed limitation system (See 5.6.1 vs. 5.6.1 of GB 24407-2012);
- Modified the requirements for automobile blow-out emergency safety device (See 5.7.3 vs. 5.7.3 of GB 24407-2012);
- Modified the exemption conditions for the net height at the floor where the feet of the passenger seated on the rear seat are rested during the roof structure strength test [See 5.10.2b) vs. 5.10.2b) of GB 24407-2012];
- Modified the requirements for dimensions of service door (See 5.11.1.1.1 vs. 5.10.4.1.1.1 of GB 24407-2012);
- Modified the requirements for position of escape hatch (See 5.11.1.1.3 vs. 5.10.4.1.1.3 of GB 24407-2012);
- Added the requirements that the power-operated service door shall be fitted with an emergency switch (See 5.11.1.3.5);
- Modified the technical requirements for retractable step (See 5.11.2.2 vs. 5.10.4.2.2 of GB 24407-2012);
- Added the requirements for providing the two-point safety belt when the attendant’s seat is arranged laterally (See 5.12.1.2.3);
- Added the requirements for side-mounted attendant’s seat and its anchorages (See 5.12.1.2.4);
- Modified the types of and requirements for safety belts of primary and junior middle school student seats and primary student seats (See 5.12.1.3.3 vs. 5.10.5.1.3.3 of GB 24407-2012);
- Modified the requirements for seat back for infants and students (See 5.12.1.3.5 vs. 5.10.5.1.3.5 of GB 24407-2012);
- Modified the requirements for distance between seats for primary students (See 5.12.1.4.1 vs. 5.10.5.1.4.1 of GB 24407-2012);
- Modified the conditions under which the height of free space above the floor where the feet of the seated passenger are rested can be reduced (See 5.12.1.4.3 vs. 5.10.5.1.4.3 of GB 24407-2012);
- Modified the requirements for restraining barrier in front of seat and the distance between the lower edge and the floor of special school bus for infants (See 5.12.2.2 vs. 5.10.5.2.2 of GB 24407-2012);
- Modified the requirements for handrails at service door (See 5.12.3 vs. 5.10.5.3 of GB 24407-2012);
- Modified the requirements for first-aid kit and its general symbol (See 5.12.5 vs. 5.10.5.5 of GB 24407-

2012);

- Modified the requirements for stopping signal plate (See 5.13.1 vs. 5.11.1 of GB 24407-2012);
- Modified the requirements for installation of warning sound device for vehicle reversing (See 5.13.3 vs. 5.11.3 of GB 24407-2012);
- Modified the requirements for mains switch (See 5.14.2.2 vs. 5.12.2.3 of GB 24407-2012);
- Modified the requirements for flame resistance of interior materials (See 5.14.6.1 vs. 5.12.6.1 of GB 24407-2012);
- Modified the requirements for arrangement of fire extinguishing equipment (See 5.14.6.2 vs. 5.12.6.2 of GB 24407-2012);
- Modified the requirements for interior air quality (See 5.16 vs. 5.14 of GB 24407-2012);
- Added the criteria for determination of the same type (See Clause 6);
- Added the requirements for signal lamps on the stopping signal plate (See B.2.6);
- Added the test conditions for determining the locations of ocular points for driver's field of vision (See C.2.1).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The organizations issuing this document shall not be held responsible for identifying any or all such patent rights.

This document was proposed by and is under the jurisdiction of the Ministry of Industry and Information Technology of the People's Republic of China.

This document was firstly issued in 2009 and firstly revised in 2012; this is the second revision.

Safety Technical Specifications of Special School Bus

1 SCOPE

This document specifies the classification of special school buses, technical requirements, criteria for determination of the same type, and implementation of this standard.

This document is applicable to special school buses.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB 5768.2-2022	Road traffic signs and markings—Part 2: Road traffic signs
GB 8410-2006	Flammability of automotive interior materials
GB/T 12428	Laden mass calculating method for bus
GB 12676-2014	Technical requirements and testing methods for commercial vehicle and trailer braking systems
GB 13057	Strength of seats and their anchorages of passenger vehicles
GB 13094	Safety requirements for bus construction
GB/T 13594	Performance requirements and test methods of anti-lock braking system for commercial vehicle and trailer
GB 13954-2009	Warning lamps for police cars, fire engines, ambulances and engineering rescue vehicles
GB 14166	Safety-belts and restraint systems for occupants of power-driven vehicles
GB 14167	Safety-belt anchorages and restraint systems anchorages for occupants of power-driven vehicles
GB/T 14172	Bench test methods of static roll stability for motor vehicles, trailers and combination vehicles
GB 15083	Strength requirement and test method of automobile seats, their anchorages and any head restraints
GB 15084	Motor vehicles—Device for indirect vision-Requirement of performance and installation
GB 17578	Requirements and test methods of strength for the superstructure of bus
GB/T 17729	Hygienic standard and detect methods for the air quality inside interurban bus
GB/T 18833-2012	Retroreflective sheeting for traffic control
GB/T 19056	Vehicle travelling data recorder
GB 24315	The marker of school bus
GB 24406	Strength of student seat and their anchorages of special school bus
GB 24545	Requirements and test methods of speed limitation system for motor vehicles
GB 30678	Safety signs and information symbols for the use of bus
GB 34655	Specifications for extinguishing equipment arrangement in bus
GB/T 38186	Performance requirements and test methods for advanced emergency braking system (AEBS) of commercial vehicles
GB 38262	Flammability of interior materials for buses

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