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**Safety Specifications for Commercial Bus
(English Translation)**

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Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard was proposed by Transport Service Department, Ministry of Transport of the PRC.

This Standard shall be under the jurisdiction of Bus Subcommittee of the National Technical Committee for Standardization of Automotive (SAC/TC 114/SC22).

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Safety Specifications for Commercial Bus

1 Scope

This Standard specifies the safety technical requirements for the entire vehicle, main assembly, safety protection device of the commercial bus.

This Standard is applicable to the Class-B and Class-III commercial bus in the Type-M2 and Type-M3 vehicle.

This Standard is not applicable to the school bus.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 2408 Plastics - Determination of Burning Characteristics - Horizontal and Vertical Test

GB/T 3730.1 Motor Vehicles and Trailers - Types - Terms and Definitions

GB/T 6323 Controllability and Stability Test Procedure for Automobiles

GB 7258 Safety Specifications for Power-Driven Vehicles Operating on Roads

GB 12676 Technical Requirements and Testing Methods for Commercial Vehicle and Trailer Braking Systems

GB 13057 The Strength of the Seats and their Anchorages of Passenger Vehicles

GB 13094 The Safety Requirements for Bus Construction

GB/T 13594 Antilock Braking Performance and Test Procedure for Motor Vehicles and their Trailers

GB 14166 Safety-Belts, Restraint Systems, Child Restraint Systems and ISOFIX Child Restraint Systems for Occupants of Power-Driven Vehicles

GB 14167 Safety-Belt Anchorages, ISOFIX Anchorages Systems and ISOFIX Top

Tether Anchorages for Vehicles

3 Terms and Definitions

The following terms and definitions and those ones stipulated in GB/T 3730.1, GB/T 6323, GB 13094, GB/T 15089 are applicable to this document.

3.1 Commercial bus

Bus used for operation of passenger transport.

4.1.1 The commercial bus roof shall not be equipped with the gas cylinders of Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG), and Liquefied Petroleum Gas (LPG).

4.1.5 The commercial bus with length greater than 9m shall be equipped with the Lane Departure Warning System (LDWS) that conforms to the provisions of JT/T 883; and equipped with the Automatic Emergency Braking System (AEBS). The forward collision warning function of the AEBS shall conform to the provisions of JT/T 883; other functions shall conform to the provisions of relevant standards.

4.1.6 When leaving the factory, the commercial bus shall be equipped with vehicle

inside and outside video monitoring system with the storage and upload functions; and equipped with the vehicle terminal based on satellite positioning system with the travel recording function.

4.2.1 When the maximum design axle load of steering shaft is greater than 4000kg,

the power steering device shall be installed. When steering, the power steering function shall be continuously valid; and when the power steering device failed, the steering wheel can also control the vehicle.

4.2.2 The commercial bus shall be understeering characteristics; perform the test as

per GB/T 6323; the understeering degree shall conform to the provisions of QC/T 480.

4.3.1 The commercial bus shall be equipped with the anti-lock braking device that conforms to the provisions of GB/T 13594; and equipped with the signal device for warning if the anti-lock braking device fails.

4.3.3 All service brake of the commercial bus shall have the automatic adjustment

function of the brake clearance. When the lining of the disc service brake needs replacing, use the acoustic or optical alarm device to warn the driver at the driver's seat; the warning signal shall meet the requirements of GB 12676.

4.5.2 The commercial bus installed single-tire wheel shall be equipped with tire pressure monitoring system or tire pressure alarm device; and can display relevant information to the driver through the dashboard.

4.5.3 The front wheels of commercial bus with length greater than 9m shall be equipped with the tyre-failure emergency safety device conforming the provisions of JT/T 782; and can display to the driver through the dashboard.

4.6.1 Superstructure strength

The superstructure strength of the commercial bus shall conform to the provisions of GB 17578. After performing the test as per GB 17578, the seat adjustment and locking device shall be maintained the locking state, the seat and vehicle fixtures shall not fail; for the gasoline-fueled commercial bus, its fuel tank shall not leak. door approach shall be nonadjustable.

4.7.1 The commercial bus shall be equipped with single fuel tank, the rated capacity

of which shall be less than or equal to 260L, and the following requirements shall be met.

4.7.2 The installation requirements of special CNG, LNG, LPG gas devices for commercial bus shall conform to the provisions of GB 7258; while the installation requirements of special CNG, LPG gas devices shall conform to the provisions of GB