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REPUBLIC OF CHINA

中华人民共和国国家标准

GB 18986-2003

The safety requirements for light bus construction

轻型客车结构安全要求

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Foreword

All the technical aspects in this standard are mandatory.

This standard is not equivalent to the technical aspects of the United Nations Economic Commission for Europe Regulation 52 (ECE R52) *Uniform Rule on Construction of Small Capacity Public Service Vehicles (1995 edition)*.

The aspects in ECE R52 such as the first-aid box, seat dimensions, seat cushion, seats for disabled, safety switch and automatically-controlled service door, which have little relation with the bus construction safety or are not suitable for implementation as our national mandatory standard at present, are not adopted in this standard; the aspects such as the erosion and pressure resistant requirements for the fuel tank, specific requirements for the nip prevention of power-driven service doors and its test methods, the reversing lamp and the outer lighting signals, which have been regulated by relevant standards in our nation or can be listed into relevant standards, are not adopted; the provisions, which are closely relevant to the human body dimensions and weight are adjusted taking into account the human body characteristics and regulations of other relevant standards in our nation as well as referring to the United States Federal Motor Vehicle Safety Standards (FMVSS) Standard No.217 *Bus Window Retention and Release*.

The transition period of implementing this standard:

a) For the regulation about the maximum height of the first step of the service door step plate in 4.5.4.1, it should not be enforced forcefully for the production buses with the length being less than 6m; it should be enforced 24 months after the implementation date of this standard for the newly approved buses with the length being less than 6m.

b) For the requirements on the minimum depth of the step plate of the service door in 4.5.4.1 and the minimum clear space before the passenger seat, it should not be enforced forcefully for the production buses; and it should be enforced 24 months after the implementation date of this standard for the newly approved buses.

c) For the minimum distance between seats facing the same direction in 4.5.5.1.1, it should be enforced 6 months after the implementation date of this standard.

d) For the requirements on folding seats in 4.5.2.2 and 4.5.3.3, it should be enforced 36 months after the implementation date of this standard.

This standard was proposed by the Ministry of Communications of the People's Republic of China.

This standard is under the jurisdiction of the National Technical Committee for Automotive Standardization (CSBTS/TC114).

This standard was mainly drafted by China Highway Vehicle & Machinery General Co.

This standard was drafted jointly by Nanjing IVECO Motor Company Ltd (NAVECO), Jiangling Motors Co.,Ltd., Shenyang Jinbei Passenger Vehicle Manufacturing Co., Ltd, Jiangsu Mudan Automobiles Group Company Limited and Hebei Tuoda Automatic Door Co., Ltd.

This standard was mainly drafted by Sun Ying, Zhang Bingrong, Wang Dongping, Guo Zhicai, Wang Gang, Chen Jingxian, Liu Qun, Zheng Xilai, and Wang Yunyao.

The safety requirements for light bus construction

1 Scope

This standard specifies the safety requirements for the light bus construction.

This standard is applicable to the single-deck buses of Class A and Class B in Category M₂ and Category M₃ (not including buses with beds).

2 Normative References

The following documents contain provisions which, through reference in this text, constitute provisions of this national standard. For dated reference, subsequent amendments (not including the corrected aspects) to, or revisions of, any of these publications do not apply; however, parties to agreements based on this standard are encouraged to investigate the possibility of applying the latest editions of these documents. For undated references, the latest edition is applicable to this standard.

GB/T 4780-2000 *Terminology for motor vehicle body*

GB 8410-1994 *Flammability Characteristics of Motor Vehicle Inner Trim Materials*

GB/T 12428 *Laden Mass Calculation of Buses*

GB 14166-1993 *Motor Vehicle Safety Belt Assemblies Performance Requirements and Test Methods*

3 Terms and Definitions

The terms and definitions in GB/T 4780-2000 and the following terms and definitions apply to this standard.

3.1 Sliding Door

It refers to the vehicle door that can open and close only by moving along the straight (or almost straight) track.

3.2 Driver operated service door

It refers to the service door that is opened or closed by the driver under the normal conditions.

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