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

GB/T 13043-2022

Replacing GB/T 13043-2006

Bus type approval test procedure

客车定型试验规程

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part

1. Structure and Drafting Rules for Standardization Documents" drafting. This document replaces GB/T 13043-2006 "Passenger Car Type Test Regulations". Compared with GB/T 13043-2006, except for structural adjustment and Apart from editorial changes, the main technical changes are as follows:

- a) Changed the vehicle model definition (see 3.1, 3.1 of the.2006 edition);
- b) Added the terms and definitions of hybrid electric bus, pure electric bus and fuel cell electric bus (see 3.2,
- c) Changed the test conditions and terminated the test conditions (see Chapter 4, Chapter 4 of the.2006 edition);
- d) The performance test items of hybrid and pure electric electric buses have been added (see 5.4);
- e) Deleted the special device (see 5.3.10 of the.2006 edition);
- f) Delete the performance retest requirements (see 5.4 of the.2006 edition);
- g) Changed the requirements for the number of reliability test samples (see 4.1.3, 5.5.2 of the.2006 edition);
- h) Changed Appendix B and added statistical methods for reliability evaluation indicators

(see B.2, Appendix C of the 2006 edition);

1 Scope

China's national test procedure for the type approval of buses and coaches - the programme a new design must complete before it can be put into production. It specifies the requirements for the bus type test, the conditions under which a test is terminated, the test items, the test methods and the test report, and it applies to the type testing of M2 and M3 category buses. A bus is a vehicle whose failures fall on people who had no part in choosing it, in numbers, and the type test is where a design is examined rather than a sample of production. The programme covers the vehicle as a whole rather than its components, which have their own approvals: the power performance and the gradeability, which determine whether the vehicle can hold a schedule on the routes it is sold for; the fuel or energy consumption; the braking performance, including the behaviour on a long descent, which is where bus accidents with the highest casualties happen; the handling and stability; the ride comfort, measured because a coach that vibrates at the wrong frequency is unusable on a long route however well it performs otherwise; the noise inside and outside; the heating, ventilation and air conditioning, which on a full vehicle is a safety matter as much as a comfort one; the electrical system; the durability and reliability run, which is the longest and most expensive part of the programme and the one that finds what a short test cannot; and the inspection of the body structure and the interior. The conditions for terminating a test matter as much as the tests: a programme that continues after a significant failure produces a result that means nothing, and the standard says when to stop. Issued on 30 December 2022 and in force since 1 July 2023, it replaces GB/T 13043-2006.

This document specifies the requirements for the passenger car type test and test termination conditions, test items, test methods and test reports. This document is applicable to the type test of M2 and M3 passenger cars.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 3730.1 Terms and Definitions of Types of Vehicles and Trailers

GB/T 3730.2 Road Vehicle Quality Vocabulary and Codes

GB/T 4970 Test method for vehicle ride comfort

GB/T 6323 Automobile Handling Stability Test Method

GB 7258 Motor vehicle operation safety technical conditions

GB/T 12534 General Rules for Automobile Road Test Methods

GB/T 12536 Vehicle sliding test method

GB/T 12538 Determination of Center of Gravity Position of Road Vehicles with Two Axles

GB/T 12539 Automobile climbing steep slope test method

GB/T 12540 Automobile Minimum Turning Diameter, Minimum Turning Passage Circle Diameter and Swing Value Measurement Method

GB/T 12543 Automobile Acceleration Performance Test Method

GB/T 12544 Automobile maximum speed test method

GB/T 12545.2 Test method for fuel consumption of commercial vehicles