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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 14894-2026

Replacing GB/T 14894-2005

Rules for the inspection and testing of urban rail transit vehicles after completion of construction

城市轨道交通车辆组装后的检查与试验规则

Issued on: April 30, 2026 **Implemented on: November 1, 2026**

Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC

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Foreword

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GB/T 14894-2026 | Rules for inspecting and testing of urban rail transit vehicles after completion of construction

GB/T 14894-2026 English version. Rules for inspecting and testing of urban rail transit vehicles after completion of construction ICS

84 National Standards of the People's Republic of China Replaces GB/T 14894-2005 After the urban rail transit vehicle is assembled Inspection and Testing Rules Published on 2026-04-

30 Implemented on 2026-11-

01 State Administration for Market Regulation The State Administration for Standardization issued a statement.

1.Scope This document specifies the general requirements, test categories, and procedures for the inspection and testing of urban rail transit vehicles before they are put into service after assembly. Implementation conditions, static tests, and dynamic tests. This document applies to urban rail transit vehicles with a maximum operating speed of no more than 160 km/h that are powered by external electricity.

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4.1 General Rules

4.1.1 The process of vehicle manufacturers inspecting and testing vehicles should include test outlines, test specifications, process standards, and test records. The content should include recording, calibration of testing instruments and equipment, document control, control of nonconforming products, and personnel training, and should comply with GB/T 19001. Regulation.

4.1.2 All equipment or systems integrated into the vehicle shall be subject to appropriate inspection and testing. If the vehicle is not equipped with the equipment covered in this document... If the equipment or function is not required, corresponding checks and tests may not be necessary.

4.1.3 The contents related to reliability, availability, maintainability and safety shall comply with the provisions of GB/T 21562.

4.2 Test Outline

4.2.1 Before inspection and testing, a test outline should be prepared and reviewed.

4.2.2 The test outline shall include at least the following.

a) Experimental procedures;

b) Experimental plan;

c) Test methods;

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d) The test categories and implementation conditions for each test;

e) Evaluation criteria for each test or vehicle design requirements.

4.2.3 The test outline may include referenced test specifications.

4.2.4 The test plan can be adjusted according to the actual situation.

4.3 Test Report After all tests are completed, a test report should be prepared, which should include at least the following.

a) The name and address of the organization that prepared the test report;

b) The name and address of the vehicle manufacturer;

c) Identification information of the vehicle and its major components, including name, type, model and related supplementary information;

d) Standards or normative documents referenced in the test outline;

4.4 Third-party testing institutions

4.4.1 Testing may be conducted by a third-party testing organization independent of the vehicle manufacturer. When a third-party testing organization is used, the testing organization should... The certification system details are declared and agreed upon.

4.4.2 When vehicle testing is conducted at a third-party testing site, it may be carried out by a third-party testing organization.

4.4.3 Third-party testing organizations shall meet the requirements of GB/T 27025.

5.1 General Rules

5.1.1 Before conducting tests on each vehicle, component or equipment tests should be completed. When the supplier's factory lacks suitable conditions, tests can be conducted on the entire vehicle. Perform static or dynamic routine tests on the components.

5.1.2 If the same test is conducted using test facilities of different specifications, the user should be informed of the impact of the test facilities on this type of test.

5.2 Test Categories

5.2.1 The various inspections and tests conducted on the vehicle after assembly and before it is put into use shall include.

a) Adjustment test;

b) Acceptance testing, including type testing and routine testing;

c) Research-based experiments.

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5.2.2 Static tests shall comply with the following requirements.

a) Static testing shall be conducted at the vehicle manufacturer's factory or at another location agreed upon by the user;

b) Static tests should check whether the vehicle's safety meets the requirements of dynamic tests;

c) When static testing is conducted at a third-party testing facility, the test vehicle shall be transported safely.

5.2.3 Dynamic tests shall comply with the following provisions.

a) Dynamic tests should preferably be conducted at the vehicle manufacturer's factory; tests subject to track conditions should preferably be conducted on the track where the vehicle will be used. If the test is not available on the test line, it can be conducted on a line with similar characteristics or at a dedicated test site.

b) The test location and arrangements should be specified in the test outline;

c) The requirements for conducting the experiment shall comply with the regulations of the location where the experiment is conducted;

d) The test conditions should include all necessary facilities, equipment, and materials provided for dynamic testing;

e) The responsibilities of all parties involved in the dynamic trial should be clearly defined;

5.3 Test Implementation Conditions

5.3.1 Test Environment The inspection and testing environment conditions shall comply with the following requirements.

a) The altitude should not exceed 1400m;

b) The ambient temperature should be between -25°C and 45°C;

c) The average relative humidity of the wettest month should not exceed 90%, and the average minimum temperature of that month should be 25°C.

d) Due to the different climatic conditions in different cities, the test environment conditions can be specified separately in the test outline.

5.3.2 Vehicle Load Condition

5.3.2.1 When conducting inspections and tests, the load condition shall meet the following requirements.

a) The unloaded load (AW0) should be the vehicle's own weight load condition;

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