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

GB/T 28791-2024

Replacing GB/T 28791-2012

Signs of rolling stock - Vehicles and multiple units

机车车辆标志 车辆及动车组

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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 28791-2012 "Railway Vehicle Marking". Compared with GB/T 28791-2012, except for structural adjustment and editing, In addition to the changes in performance, the main technical changes are as follows:

- a) Added the terms and definitions of signs (see Chapter 3);
- b) The classification of signs has been changed (see Chapter 4, Chapter 4 of the.2012 edition);
- c) Added the general requirements for marking (see 5.1);
- d) Added appearance and surface requirements for marking (see 5.1.2, 6.6, 6.7);
- e) Added the requirements for safety signs (see 5.1.3);
- f) Added material requirements for marking places with electric shock hazards (see 6.2);
- g) Added requirements for setting signs (see Chapter 7). Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by the National Railway Administration. This document was drafted by: CRRC Qingdao Sifang Rolling Stock Research Institute Co., Ltd., China Academy of Railway Sciences Group Co., Ltd. Standard Metrology Research Institute, CRRC Changchun Railway Vehicles Co., Ltd., CRRC Qingdao Sifang Locomotive and Rolling Stock Co., Ltd., CRRC Tangshan Locomotive and Rolling Stock Co., Ltd. Co., Ltd., CRRC Nanjing Puzhen

Co., Ltd., CRRC Changjiang Co., Ltd., CRRC Qiqihar Co., Ltd., Qingdao Sifang ELLSTONE RAIL TRANSPORT EQUIPMENT LIMITED. The main drafters of this document are. Chen Ping, Liu Zhiyan, Chen Meng, Xu Li, Wang Jianbo, Gong Qiaoqin, Qiu Liwei, Yang Zedong, Lei Qingping, Lü Qian, Hou Lixin, Shan Baozhu and Wang Jiaying. This document was first published in 2012 and this is the first revision. Locomotive and Rolling Stock Signs Vehicles and EMUs

1 Scope

China's national standard for the signs applied to railway vehicles and multiple units. It specifies the terms and definitions, the classification, the general requirements, the material and construction requirements and the placement of the signs and markings carried on rolling stock. A railway vehicle is covered in writing, and almost none of it is decoration. There are the identification markings - the vehicle number, the owner, the type, the tare and load, the wheelbase and the dates of the last examinations - which are how a vehicle is identified in a yard, in a train list and in a maintenance record. There are the operating markings that tell a shunter or a driver what the vehicle can do: the brake type, the coupling, the maximum speed, the route availability. There are the safety signs that warn of electric shock, of moving parts, of the pantograph clearance, and that mark the emergency exits, the emergency brake and the equipment a rescuer needs to find in the dark. And there are the passenger-facing signs inside a multiple unit. Every one of them has to be legible after fifteen years outdoors on a vehicle washed with detergent at speed, and none may fall off. The 2024 revision reflects that. It adds terms and definitions for the signs themselves, revises the classification, and adds three sets of requirements the 2012 edition did not carry: general requirements for marking, appearance and surface requirements, and requirements for safety signs specifically. It adds material requirements for markings applied in places where there is an electric shock hazard, and a whole chapter on where signs are to be placed. Issued on 15 March 2024 and in force since 1 July 2024, it replaces GB/T 28791-2012.

This document specifies the marking classification, basic requirements, manufacturing requirements and installation requirements for railway passenger cars, freight cars and EMU markings. This document is applicable to passenger service signs and work management signs for railway passenger cars, freight cars and EMUs. Other rail transit vehicles can refer to this document. use.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This

document.

GB 190 Dangerous Goods Packaging Marking

GB/T 191 Pictorial markings for packaging, storage and transportation

GB/T 2893 (all parts) Graphical symbols, safety colors and safety signs

GB 2894-2008 Safety signs and their use guidelines

GB/T 4549.1 Vocabulary of railway vehicles Part

3 Terms and definitions

The terms and definitions defined in GB/T 4549.1, GB/T 4549.11 and GB/T 15565-2020 and the following apply to this document.

3.1 Logo A visual or tactile configuration formed by text, graphics or specific colors that conveys specific information. [Source: GB/T 15565-2020, 3.1.1, modified]

3.2 passenger service sign passengerservicesign A sign that conveys service and safety information to the traveling public.

9 Symbols for barrier-free facilities

GB/T 10478 Liquefied gas railway tank cars

GB 13495.1-2015 Fire safety signs Part

11 Special freight car accessories

GB/T 10001.1-2012 Graphic symbols for public information Part