

ICS 03.120.10  
CCS A 00



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

**GB/T 48140-2026**

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**Specification of automotive software quality and defect  
management**

汽车软件质量与缺陷管理规范

**(English Translation)**

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### Foreword

GB/T 48140-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 December 2026.

It is under the responsibility of the Standardization Administration of China.

Classification: ICS 03.120.10; CCS A 00.

### 1 Scope

This document addresses quality and defect management for automotive software across the full lifecycle of a software product. It sets out requirements for quality planning, process quality assurance, review of critical processes, software risk assessment and the handling of software defects, and it describes an overall framework and methods for putting these activities into practice.

The scope reaches vehicle embedded software, cloud software, on-board operating systems, automotive artificial intelligence software and AI-based components, as well as mobile real-time control software. It applies to new development, incremental development, and the upgrade and maintenance of existing software. Intended users include vehicle manufacturers, software suppliers and other organizations in the upstream and downstream supply chain, together with recall technical institutions. It is a recommended (voluntary) national standard taking effect on 1 December 2026.