

ICS 65.060.01
CCS B 90



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

GB/T 45784.2-2025

**Agricultural vehicles - Standardized access to repair and
maintenance information (RMI) - Part 2: Vehicle on-board
diagnostics**

农业车辆 维修保养信息的标准接口 第2部分：车载诊断

(English Translation)

Issued on: May 30, 2025

Implemented on: December 1, 2025

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Preface
Introduction
1 Scope
2 Normative references
3 Terms and definitions
4 Abbreviations
5 Requirements
6 General diagnostic tools
Appendix A (Informative) Software Refresh Capability and Diagnostic Tool Design
References

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 is part 1 of GB/T 45784 "Standard interface for maintenance information of agricultural vehicles". GB/T 45784 has been published the following parts.

--- Part 1: Web-based user interface requirements;

--- Part 2: On-board diagnostics.

This document is equivalent to ISO 22172-2:2020 "Standard interface for maintenance information for agricultural vehicles Part 2: On-board diagnostics".

The following minimal editorial changes were made to this document.

--- Added Note KWP (see 5.2.1.1).

Introduction

GB/T 45784 mainly involves the technical requirements of the standard interface for agricultural vehicle maintenance information, including agricultural vehicle maintenance information Overall requirements for standard interfaces and hardware and software requirements for on-board diagnostics.

GB/T 45784 is intended to consist of two parts.

--- Part 1: Web-based user interface requirements. The purpose is to specify the general requirements of the standard interface for agricultural vehicle maintenance information.

Requirements, principles, use case definitions, technical requirements.

--- Part 2: On-board diagnostics. The purpose is to specify the minimum hardware and software requirements for on-board diagnostics and provide the hardware of the diagnostic tool and software specifications.

Standard interface for agricultural vehicle maintenance information Part 2: On-board diagnostics

1 Scope

This document specifies the minimum hardware and software requirements for vehicle maintenance by describing the minimum hardware and software requirements, including software flash, calibration, and configuration requirements after repair.

This document provides the hardware and software specifications for the diagnostic tool.

This document does not apply to conversion kits as these are not an integral part of the vehicle.

2 Normative references

The contents of the following documents constitute the 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.

ISO 11783-2 Serial control and communication data networks for tractors and machinery for agriculture and forestry Part 2: Physical layer Physicallayer) Note. GB/T 35381.2-2017 Agricultural and forestry tractors and machinery serial control and communication data networks Part 2: Physical layer (ISO 11783-2.

2012, IDT)

ISO 11783-12 Serial control and communication data networks for tractors and machinery for agriculture and forestry Part 12: Diagnostic services

12 Diagnosticsservices)

Note: GB/T 35381.12-2020 Serial control and communication data networks for agricultural and forestry tractors and machinery Part 12: Diagnostic services (ISO 11783-12.

2019, IDT)

ISO 11898-1 Road Vehicle Controller Area Network (CAN) Part 1: Data Link Layer and Physical Signalling [Roadvehi-Note. GB/T 41588.1-2022 Road vehicle controller area network (CAN) Part 1: Data link layer and physical signaling (ISO 11898-1.

2015, IDT)

ISO 11898-2 Road vehicles Controller Area Network (CAN) Part 2: High-speed media access unit [Roadvehicles-Note. GB/T 41588.2-2022 Road vehicle controller area network (CAN) Part 2: High-speed media access unit (ISO 11898-2.

2016, IDT)

ISO 13400-2 Diagnostic communications over Internet Protocol (DoIP) for road vehicles Part 2: Transport protocol and network layer services Note. GB/T 43258.2-2023 Diagnostic communications based on Internet Protocol (DoIP) for road vehicles Part 2: Transport protocol and network layer services (ISO 13400-2:2019,MOD) ISO 13400-3 Diagnostic communications over Internet Protocol (DoIP) for road vehicles Part 3: IEEE 802.3 wired Note. GB/T 43258.3-2023 Diagnostic communication based on Internet protocol (DoIP) for road vehicles Part 3: Wired vehicle based on IEEE802.3