



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

GB/T 35381.12-2020

**Agricultural and forestry tractors and machinery Serial control
and communication data network - Part 12: Diagnostic service**

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Foreword

GB/T 35381 "Agricultural and forestry tractors and machinery serial control and communication data network" is divided into the following 14 parts.

---Part 1.General Standards for Data Communication;

---Part 2.Physical layer;

---Part 3.Data Link Layer;

---Part 4.Network layer;

---Part 5.Network Management;

---Part 6.Virtual Terminal;

- Part 7.Tool message application layer;
- Part 8.Powertrain news;
- Part 9.Tractor ECU;
- Part 10.Data exchange between task controller and management information system;
- Part 11.Data Element Dictionary;
- Part 12.Diagnostic services;
- Part 13.File Server;
- Part 14.Sequence control.

This part is Part 12 of GB/T 35381.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

The translation method used in this part is equivalent to the adoption of ISO 11783-12:2019
`Agricultural and forestry tractors and machinery serial control and communication data network

Part 12.Diagnostic Services.

The Chinese documents that have a consistent correspondence with the international documents cited in this section are as follows.

---GB/T 35381.1-2017 Agricultural and forestry tractors and machinery serial control and communication data network Part 1.Data communication

Common standard (ISO 11783-1:2007, IDT)

---GB/T 35381.2-2017 Agricultural and forestry tractors and machinery serial control and communication data network Part 2.Physical layer

(ISO 11783-2:2012, IDT)

---GB/T 35381.3-2017 Agricultural and forestry tractors and machinery serial control and communication data network Part 3.Data link

Layer (ISO 11783-3:2014, IDT)

---GB/T 35381.5-2017 Agricultural and forestry tractors and machinery serial control and communication data network Part 5.Network management

(ISO 11783-5:2011, IDT)

---GB/T 35381.7-2017 Agricultural and forestry tractors and machinery serial control and communication data network Part 7.Machine information

Application layer (ISO 11783-7:2015, IDT)

This part was proposed by China Machinery Industry Federation.

This part is under the jurisdiction of the National Agricultural Machinery Standardization Technical Committee (SAC/TC201).

Drafting organizations of this section. First Tractor Co., Ltd., Chinese Academy of Agricultural Mechanization Sciences, Henan Bingfeng Electronic Technology Co., Ltd.

Company, Fengjiang Intelligent Software Technology (Nanjing) Co., Ltd., Xingguang Agricultural Machinery Co., Ltd., Henan University of Science and Technology, China Rural Technology Development

center.

1 Scope

GB/T 35381 specifies the serial control and communication data network of agricultural and forestry tractors and suspended, semi-suspended, traction or self-propelled machines.

Its purpose is to standardize data transmission methods and formats between sensors, drives, control components, information storage and display units. These devices

Installed on tractors or implements or standard equipment on them.

This part of GB/T 35381 applies to network diagnostic systems.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

ISO 11783-1 Agricultural and Forestry Tractors and Machinery Serial Control and Communication Data Network Part 1.Data Communication General Standard

ISO 11783-2 Agricultural and Forestry Tractors and Machinery Serial Control and Communication Data Network Part 2.Physical Layer

ISO 11783-3 Agricultural and Forestry Tractors and Machinery Serial Control and Communication Data Network Part 3.Data Link Layer

ISO 11783-5 Agricultural and Forestry Tractors and Machinery Serial Control and Communication Data Network Part 5.Network Management

ISO 11783-7 Agricultural and Forestry Tractors and Machinery Serial Control and Communication Data Network Part 7.Machine Message Application Layer

ISO 14229-1 Unified Diagnostic Service (UDS) for Road Vehicles Part 1.Specifications and

Requirements

SAEJ1939-73 Application layer diagnosis

3 Terms and definitions

The following terms and definitions defined by ISO 11783-1, ISO 14229-1 and SAEJ1939-73 apply to this document.

The ISO and IEC standardized term database address is.