

CCS B 90



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

GB/T 35381.14-2020

**Agricultural and forestry tractors and machinery Serial control
and communication data network - Part 14: Sequence control**

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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 14 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 ISO 11783-14.2013 "Agricultural and forestry tractors and machinery serial control and communication data network

Part 14.Sequence Control.

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 35381.3-2017 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 35381.6-2017 Agricultural and forestry tractors and machinery serial control and communication data network Part 6.Virtual terminal

(ISO 11783-6.2014, IDT)

This section has made the following editorial changes.

---Corrected the printing error of the original international standard. "39 in Figure 2 indicates that a reference to SCMOP has been established" "26 in Figure 2

Show that a reference to SCCOP has been established" "Figure 2 is the establishment of a graphical object in the SCCOP of the connected SCC" "Figure 2"

Change to "Figure 3" (see 4.2.1).

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. Henan University of Science and Technology, Chinese Academy of Agricultural Mechanization Science, Xingkedi Technology (Taizhou) Co., Ltd., Shandong Zhong

Zhi Electronics Co., Ltd., Xingguang Agricultural Machinery Co., Ltd., Taishan Intelligent Manufacturing Industry Research Institute, 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 suspension implements or standard equipment on them.

This part of GB/T 35381 specifies a sequence control system that includes tractor and implement functions. For example. land management system. system

The system allows multiple function sequences activated by the operator to be recorded and replayed under the command of the operator. These features come from tractors or

Other control functions on the ISO 11783 network.

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 11783-3 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 11783-6 Agricultural and Forestry Tractors and Machinery Serial Control and Communication Data Network Part 6.Virtual Terminal

3 Terms and definitions

The following terms and definitions defined by ISO 11783-1 and ISO 11783-3 apply to this document.

3.1

Abort

Pause sequence playback, and immediately stop all actions initiated during sequence execution.

Example. The suspension device stops at the current position.

3.2

Activity sequence control main control device

The sequence control main control device selected by the operator is used to control the sequence control system.

Note. Only one active sequence control master SCM is allowed at the same time.