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

GB/T 20344-2025

Replacing GB/T 20344-2006

**Tractors and machinery for agriculture and forestry - Power
transmission connectors**

农林拖拉机和机械 电力传输连接器

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Standardization Administration of the PRC**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document supersedes GB/T 20344-2006 "Electric Transmission Connectors for Agricultural Tractors and Machinery" and is consistent with GB/T 20344-2006. Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope has been changed (see Chapter 1, Chapter 1 of the.2006 edition);
- b) The terms and definitions for "contact," "socket," "receptacle," "plug," and "connector" have been changed (see 3.1, 3.3-3.6,.2006 edition). 3.1, 3.3~3.6);
- c) The terms and definitions for "plug" and "power transmission connector" have been added (see 3.2, 3.7);
- d) The terms and definitions for "pin" and "connection loop" have been removed (see 3.7 of the.2006 edition);
- e) The requirements for the installation location of Type 1 connectors have been changed (see 4.1.1.3, 4.4 in the.2006 version);
- f) The requirements for the Type 2 connector technical specifications have been changed (see 4.1.2.2, 5.2 of the.2006 edition);
- g) The requirements for the installation location of Type 2 connectors have been changed (see 4.1.2.3, 5.4 of the.2006 version);
- h) Requirements for Type 3 and Type 4 connectors have been added (see 4.1.3, 4.1.4);

1 Scope

GB/T 20344-2025 is the Chinese national standard covering the electrical connector between a tractor and its implement - the pin assignment and the current rating, the sealing against mud and washing, the mechanical retention under vibration, and the interchangeability across makes. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 20344-2006.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2423.7-2018 Environmental Testing - Part

2. Test Methods - Test Ec. Impact caused by rough handling (mainly used for...) Equipment sample)

GB/T 4208 Degrees of protection provided by enclosures (IP code)

GB/T 5053.2 Electrical connector between tractor and trailer for road vehicles - 7-pin 12V standard type (12N)

GB/T 5053.3-2006 Definition, Test Methods and Requirements for Electrical Connectors Between Tractors and Trailers of Road Vehicles

GB/T 20234.1-2023 Connecting devices for conductive charging of electric vehicles - Part

GB/T 20234.2-2015 Connecting devices for conductive charging of electric vehicles - Part 2: AC charging interfaces

GB/T 20234.3-2023 Connecting devices for conductive charging of electric vehicles - Part 3: DC charging interface

GB/T 37133-2025 High-voltage connection system for electric vehicles

JB/T 6697-2023 Basic Technical Specifications for Agricultural and Forestry Tractors and Electrical Equipment

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Contact A conductive element on a connector that can form a circuit with a corresponding conductive element.

3.2 malecontact A contact that enables circuit conduction by contacting its outer surface with a socket-type contact.

3.3 female contact jack A contact that enables circuit conduction by having its inner surface contact a plug-in contact.

3.4 socket A connector with a socket that is installed on a tractor and used in conjunction with a plug.

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