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

YC/T 10.15-1993

Replacing YC/T 10.15-2006

**Tobacco Machinery General Technical Conditions Part 15:
Electrical Control System Assembly
(English Translation)**

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Foreword

YC/T 10 "General Technical Conditions for Tobacco Machinery" is divided into 16 parts.

- Part 1. Cutting parts;
- Part 2. Cold work;
- Part 3. Welded parts;
- Part 4. Gray cast iron parts;
- Part 5. Ductile iron castings;
- Part 6. Cast carbon steel parts;
- Part 7. Copper alloy castings;
- Part 8. Aluminum alloy castings;
- Part 9. Forgings;
- Part 10. Metal plating and chemical treatment;
- Part 11. Painting;
- Part 12. Assembly;
- Part 13. Packaging;
- Part 14. Electrical control systems;
- Part 15. Electrical control system assembly;
- Part 16. Polished and brushed stainless steel parts.

This part is the 15th part of YC/T 10.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces YC/T 10.15-2006 "Assembly of Electrical Control System for General

Technical Conditions of Tobacco Machinery", and YC/T 10.15-Compared with 2006, the main technical changes except editorial changes are as follows.

- Change the "mark" to "marked assembly" (see 5.5, version 5.5 of 2006);
- Added electrical installation and other content (see 5.6.7~5.6.11);
- Change the "wiring" to "wiring" (see 5.8, 5.8 of 2006 edition).

This part is proposed by the National Tobacco Monopoly Bureau.

This part is under the jurisdiction of the National Tobacco Standardization Technical Committee Smoke Machine Subcommittee (SAC/TC144/SC3).

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1 Scope

This part of YC/T 10 stipulates the terms and definitions of the assembly of tobacco mechanical electrical control systems (hereinafter referred to as electrical assembly), generally Seek detailed requirements.

This section applies to the assembly of electronic and electrical control systems for tobacco machinery products.

2 Normative references

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

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

GB/T 2423.32 Environmental testing of electric and electronic products - Part 2. Test methods Tests Ta. Wet-weighing method Weldability GB/T 4728 (all parts) Graphical symbols for electrical diagrams GB/T 5094.1 Industrial systems, devices and equipment and industrial product structure principles and reference code - Part 1. Basic rules GB 5226.1-2008 Mechanical electrical safety machinery and electrical equipment - Part 1. General technical conditions YC/T 10.12 General technical requirements for tobacco machinery - Part 12. Assembly

3 Terms and definitions

The following terms and definitions apply to this document.

Wraparound connection Use a special tool to tightly wrap the metal wire around the terminal with more than two corners, under a certain pulling force, the wire and the post are plastically deformed and the surface atomic layer is strongly combined to form an airtight area, which constitutes a reliable electrical connection.

Crimp crimping

By means of the control pressure, the plastic contact and the metal displacement of the crimping terminal and the wire contact surface form a reliable electrical connection.

Wetting

The molten solder flows freely on the metal surface and flares out to form an adhesion layer bonded to the metal.

Wetting angle Refers to the angle between the intersection of the metal surface and the molten solder interface and the surface of the molten solder at its intersection.

4 General requirements

4.1

The electrical assembly environment should be clean and tidy; temperature, humidity and cleanliness should meet the following requirements.