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

GB/T 47804.4-2026

**Road vehicles - Design and performance specifications for the
WorldSID 50th percentile male side impact dummy - Part 4: User
manual**

道路车辆 WorldSID第50百分位男性侧面碰撞假人的设计和性能规范 第4部分：
用户手册

(English Translation)

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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 is GB/T 47804 "Design and Performance Specifications for Road Vehicles WorldSID 50th Percentile Male Side Impact Dummy" Part 4 of GB/T 47804 has been published, including the following parts.

---Part 1: Terminology and Symbols;

---Part 2: Mechanical Subsystem;

---Part 3: Mechanical Requirements for Electronic Subsystems;

---Part 4: User Manual this document is modified to adopt ISO 15830-4:2022 "Road vehicles - Design of 50th percentile male side-impact crash test dummies".

Performance Specifications Part 4: User Manual.

This document has undergone significant structural adjustments compared to ISO 15830-4:2022. A comparison of the structural numbering changes between the two documents is provided below.

See Appendix A for the table.

This document differs significantly from ISO 15830-4:2022. The relevant clauses are indicated in the margins using vertical markers.

Straight lines (|) are marked. A summary of these technical differences and their reasons can be found in Appendix B.

The following editorial changes have been made to this document.

---The part numbers in the parts list for each assembly of the dummy have been changed, and the part numbers have been deleted (see all tables in 4.1, ISO 15830-4:2022).

---Added notes to Table 4;

---Added a note to step c) in section 4.1.3.3.3;

---Appendix A (informative) "A Comparison Table of Structure Numbers in this Document with ISO 15830-4:2022" has been added;

---Appendix B (informative) has been added. "Technical Differences between this Document and ISO 15830-4:2022 and Their Reasons";

---The reference to ISO 15830-4:2022 has been removed.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This document is under the jurisdiction of the National Automotive Standardization Technical Committee (SAC/TC114).

Introduction

The WorldSID 50th percentile male side-impact dummy is an important testing tool for evaluating the side-impact protection performance of automobiles.

Requirements, calibration methods, and mechanical requirements of electronic subsystems are of great significance for evaluating dummy performance and for further advancing automotive safety testing.

The development of crash test dummies, and the formulation of GB/T 47804 "Design and Performance Specifications for Road Vehicle WorldSID 50th Percent Male Side Impact Dummy" the standard GB/T 47804 is proposed to consist of four parts.

---Part 1: Terminology and Symbols. The purpose is to standardize the terminology and symbols used for the 50th percentile male side-impact dummy in WorldSID.

Numbers, subscripts, and abbreviations.

---Part 2: Mechanical Subsystems. The aim is to standardize the performance of the 50th percentile male side-impact crash test dummy according to WorldSID.

Calculation, calibration method, and dummy structural dimension measurement method.

Sensor requirements.

---Part 4: User Manual. The purpose is to standardize the assembly and disassembly requirements for the 50th percentile male side-impact crash dummy according to WorldSID standards.

Requirements for human joint adjustment and positioning.

50th percentile male among road vehicles WorldSID Design and performance specifications of side-impact dummy Part 4: User Manual

1 Scope

This document specifies the requirements for the assembly and disassembly of the WorldSID 50th percentile male side-impact crash test dummy, as well as the requirements for dummy joint adjustment and positioning.

This document applies to the 50th percentile male side-impact dummy in WorldSID.

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 47804.1 Design and performance specifications for the 50th percentile male side-impact crash test dummies for road vehicles (WorldSID) - Part 1 Part. Terminology and Symbols (GB/T 47804.1-2026, ISO 15830-1:2022, MOD) GB/T 47806 Road vehicle crash test procedures WorldSID 50th percentile male side impact dummy positioning (GB/T 47806-2026, ISO 17949:2013, MOD)

3 Terms and Definitions

The terms and definitions defined in GB/T 47804.1 apply to this document.

4.1.1.1 Head Assembly Parts List and Disassembly Diagram

The parts list for the head assembly is shown in Tables 1 and 2, and the disassembly diagrams for the head assembly are shown in Figures 1 and 2.

Note: The neck shield and the five BHCSM4x0.7x10 in Figure 1 are not part of the head assembly.

Table 1. Parts list for scalp and neck shield components

Serial Number	Name	Quantity	1 scalp	1
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2	BHCSM8x1.25x30	1		
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3	flat washers M8	1		
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