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PEOPLE'S REPUBLIC OF CHINA**

GB/T 44083.2-2024

**Road vehicles - Methods and rules for the evaluation of the usability of
child restraint systems and their compatibility with vehicle anchorages
- Part 2: Child restraint systems using vehicle belts**

道路车辆 儿童约束系统以及与车辆固定系统配装的使用性评价方法和规则 第2部
分：用车辆安全带固定儿童约束系统

(English Translation)

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Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020

"Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document is Part 2 of GB/T 44083 "Road vehicles - Method and rules for the evaluation of the usability of child restraint systems and their compatibility with vehicle anchorages". GB/T 44083 has published the following parts:

- Part 2: Child restraint systems using vehicle belts;
- Part 3: Securing and daily maintenance of child occupants in child restraint systems;
- Part 4: Booster seat and booster cushion.

This document modifies and adopts ISO 29061-3:2017 "Road vehicles - Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems - Part 3: Installation of child restraint systems using vehicle seat belts".

Compared with ISO 29061-3:2017, this document has made the following structural

adjustments:

- RE-ARRANGE the order of terms in Chapter 3, according to the logical relationship and order of appearance;
- RE-NUMBER the serial numbers of the tables, merging the Tables 1.1 ~ Table 1.2 and Tables 2.1 ~ Table 2.5 in ISO 29061-3:2017 into Table 1 and Table 2, respectively.

The technical differences and reasons between this document and ISO 29061-3:2017 are as follows:

- ADD the normative reference GB 27887 (see Chapter 3), as the source of some child restraint system related terms;
- Some terms and definitions adopt the relevant descriptions in GB 27887 (see 3.1, 3.2, 3.7, 3.14, 3.15.2), which are consistent with relevant national standards and easy to understand;
- ADD the terms and definitions of 3.2, 3.7, 3.8 about children's harness belts, anti-rotational devices, auxiliary anti-rotational devices, to facilitate the understanding and use of other terms.

The following editorial changes have been made to this document:

Road vehicles - Method and rules for the evaluation of the usability of child restraint systems and their compatibility with vehicle anchorages - Part 2: Child restraint systems using vehicle belts

1 Scope

This document specifies the evaluation requirements for the usability of child restraint systems fixed on the vehicle with vehicle seat belts.

This document applies to integral child restraint systems installed and fixed with vehicle seat belts.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, for dated references, only the version corresponding to the date applies to this document; for undated references, the latest version (including all amendments) applies to this document.

GB 27887 Child restraint systems for power-driven vehicles

3 Terms and definitions

The terms and definitions defined in GB 27887, as well as the following terms and definitions, apply to this document.

3.1

Child restraint system; CRS

A device that enables child passengers to remain in a sitting or sleeping position. It is designed to reduce the damage to the wearer in a collision or sudden deceleration, by limiting the movement of the child's body.

3.2

Harness belt

seat belt in a designated vehicle seat, including whether the instruction document is easy to obtain, whether the instruction manual and the label content are clear and complete, whether it affects the ease of operation when installing the child restraint system in the vehicle.

4.1.2 The evaluation process is divided into the following two steps:

- Evaluation of the child restraint system itself;
- Evaluation of the usability of the child restraint system when it is installed on the designated seat of the vehicle.

4.1.3 The evaluation shall be carried out for each installation mode of the child restraint

system and the usability of the installation mode conversion. The evaluation procedure

shall be objective and repeatable.

4.1.4 The evaluation is carried out by at least two persons who have basic knowledge

of child restraint systems and are familiar with relevant technical terms.

4.1.5 The materials and tools used for the evaluation include:

- Usability evaluation form (electronic or paper form);
- Vehicle manual;
- Child restraint system instruction manual, including usage guidance video;
- Screwdriver or simple and easy-to-obtain tools.

4.1.6 The initial state of the child restraint system being evaluated shall be consistent

with the state when the consumer obtains it. The evaluation process includes all steps from assembling the child restraint system to installing it in the vehicle. It is best to be carried out by personnel who are not familiar with this child restraint system and vehicle. The evaluation process does not include the process of unpacking the child restraint system, taking it out of the packaging box and plastic protective cover, taking out the instruction manual, but other preparation processes of the child restraint system before use need to be considered and evaluated in the evaluation form.

4.1.7 The use mode of the child restraint system (forward-facing installation/rearward-

facing installation, integral/non-integral, with/without base) and the installation position on the vehicle shall be determined in advance and recorded in the evaluation form.

4.1.8 First evaluate the sign and instruction manual; finally evaluate the ease of installation and removal.

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