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

GB/T 44083.3-2024

Road vehicles - Methods and rules for the evaluation of the usability of child restraint systems and their compatibility with vehicle anchorages - Part 3: Securing and daily maintenance of child occupants in child restraint systems

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3部分：儿童约束系统中儿童乘员的搭乘及日常维护

(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 3 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 29061-4:2017 "Road vehicles - Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems - Part 4: Securing of child in child restraint system and daily handling aspects".

Compared with ISO 29061-4:2017, 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 in ISO 29061-4:2017 into Table 1 and Table 2, respectively.

The technical differences and reasons between this document and ISO 29061-4:2017 are as follows:

- ADD the normative reference GB 27887 (see Chapter 3), as the source of some child restraint system related terms;
- USE the normative reference GB/T 44083.2 to replace ISO 29061-3 (see 4.1.1), to adapt to China's technical conditions and improve operability;
- Some terms and definitions adopt the relevant descriptions in GB 27887 (see 3.1, 3.2, 3.4, 3.5.2), which are consistent with relevant national standards and easy to understand;
- ADD the terms and definitions of 3.2 about children's harness belts, 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 3: Securing and daily maintenance of child occupants in child restraint systems

1 Scope

This document specifies the usability evaluation requirements for child occupants in child restraint systems, as well as the daily maintenance of child restraint systems.

This document applies to the usability evaluation of integrated child restraint systems installed with ISOFIX or vehicle seat belts.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in the text. Among them, for dated references, only the version corresponding to that date is applicable to this document; for undated references,

the latest version (including all amendments) is applicable to this document.

GB 27887 Child restraint systems for power-driven vehicles

GB/T 44083.2 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 (ISO 29061-3:2017, MOD)

ISO 29061-1 Road vehicles - Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems - Part 1: Vehicles and child restraint systems equipped with ISOFIX anchorages and attachments

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 instruction manual, including instructional videos;
- Instrument for measuring seat belt tension;
- Child dummies specified in GB 27887, which may also be replaced by suitable children.

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 conducted by persons 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; however, 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 and the installation location in the

vehicle shall be determined in advance and recorded in the evaluation form.

4.1.8 First evaluate the labeling and instruction manual; finally evaluate the convenience of child occupant in the child restraint system on the vehicle seat.

4.2.1 The scoring rules consist of the evaluation results and weighting coefficients of

each evaluation item. All evaluators give a unified evaluation result for each evaluation item, the evaluation results are divided into good, medium, poor, with corresponding scores of 3, 1, 0, respectively. The weighting coefficients are divided into A, B, C, with corresponding scores of 3, 2, 1, respectively. The score obtained by multiplying the above two scores is the score of the evaluation item. For example: if the evaluation result is "good" and the weighting coefficient is "A", the score of this item is the highest score, that is, 9 points.

4.2.2 The final evaluation result is expressed as a score rate, which is determined by the

ratio of the actual score value to the highest score value that can be obtained. For details, see Appendix A. The final evaluation results can be graded with reference to Appendix B.

Note: The highest score values that can be obtained for different products may be different.

5 Usability evaluation form

The usability evaluation form for the riding and daily maintenance of child occupants in child restraint systems includes three parts: the evaluation of the child restraint system itself, the evaluation of the riding of child occupants in the child restraint system, the comprehensive evaluation. Among them, the evaluation form for the child restraint