International Standard

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

Véhicules routiers — Méthodes et critères pour l'évaluation de la facilité d'utilisation des systèmes de retenue pour enfants, et leurs interfaces avec les systèmes d'ancrage dans le véhicule —

Partie 1: Véhicules et systèmes de retenue pour enfants équipés d'ancrages et d'attaches ISOFIX

**Second edition
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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 36, *Safety and impact testing*.

This second edition cancels and replaces the first edition (ISO 29061-1:2010), which has been technically revised.

The main changes compared to the previous edition are as follows:

— reviewed terminology to cover technology and regulation updates since the first edition;

— editorial review.

A list of all parts in the ISO 29061 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The usability of a child restraint system (CRS) in terms of ease of:

— installation of CRSs in various vehicles; and

— day-to-day use with a child (e.g. securing, harnessing, adaption for a growing child)

is of utmost importance to ensure that a CRS is used properly in accordance with the manufacturer's intentions, and to ensure that a correctly installed CRS will provide the best possible protection in a crash situation. An international agreement on usability criteria and measurements is beneficial for both consumers and manufacturers.

The aim of this document is to provide a usability evaluation system for ISOFIX systems to promote improved ISOFIX design for easy and correct use.

It provides child restraint and vehicle manufacturers with a tool for the assessment of the usability of new and current ISOFIX systems. At the same time, it provides consumers (parents and caregivers) with usability information on the key features related to the proper use of the ISOFIX system and assists them in selecting CRSs and vehicles with ISOFIX systems that are easier to use properly.

The ISO usability evaluation system has been developed with participation from, and considering the experiences from, usability rating systems of Canada (Transport Canada and ICBC), USA (NHTSA, IIHS) and the European Union (EU) (NPACS and consumer rating programmes, such as ICRT, ADAC).

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