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Vehicle Event Data Recorder System
汽车事件数据记录系统

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FOREWORD

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

This standard was proposed by, and is under the jurisdiction of, the Ministry of Industry and Information Technology of the People's Republic of China.

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Vehicle Event Data Recorder System

1 SCOPE

This Standard specifies the terms and definitions, technical requirements, test methods and requirements, appearance and identification, extension of vehicle type, and product manual with respect to the event data recorder system (EDR) for vehicles of Category M₁.

This Standard applies to the Category M₁ vehicles equipped with the EDR, while other categories of vehicles may use this standard as a reference.

2 NORMATIVE REFERENCES

The following referenced documents are indispensable for the application of this document. For dated references, only the editions cited apply. For undated references, the latest editions of the normative document (including any amendments) apply.

GB 11551-2014	The protection of the occupants in the event of a frontal collision for motor vehicle
GB 14166	Safety-belts, restraint systems, child restraint systems and ISOFIX child restraint systems for occupants of power-driven vehicles
GB 20071	The protection of the occupants in the event of a lateral collision
GB/T 20913	The protection of the occupants in the event of an off-set frontal collision for passenger car
GB/T 30038	Road Vehicles - Degrees of Electrical Equipment Protection (IP-Code)
GB/T 34589-2017	Road vehicles - Diagnostic connector
ISO 14229-1:2020	Road vehicles – Unified diagnostic services (UDS) - Part 1: Application Layer
ISO 14230-1	Road vehicles – Diagnostic communication over K-Line (DoK-Line) - Part 1: Physical layer
ISO 14230-2	Road vehicles - Diagnostic communication over K-Line (DoK-Line) - Part 2: Data link layer
ISO 14230-3:1999	Road vehicles - Diagnostic systems - Keyword Protocol 2000 - Part 3: Application layer
ISO 15765-2:2016	Road vehicles - Diagnostic communication over Controller Area Network (DoCAN) - Part 2: Transport protocol and network layer services

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions given in GB 14166 and the followings apply.

3.1

Impact event

The impact or other physical event which reaches or exceeds the trigger threshold, or any other event resulting in the deployment of non-reversible restraint, whichever occurs first

3.2

Vehicle event data recorder system (EDR)

The device or system, consisting of one or more onboard electronic modules, which is capable of monitoring, collecting and recording the data of vehicle and occupant protection systems before, during and after the occurrence of impact event

3.3

EDR controller

The onboard electronic module intended for monitoring, collecting and recording the time series data in the process of impact event

3.4

Lateral acceleration

The component of acceleration vector at a certain point on the vehicle in the direction of Y axis

Note: with the driver seated in the vehicle facing the vehicle driving direction, the positive direction of lateral acceleration is from left to right from the perspective of driver, as shown in Figure 1.



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