



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

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**Road vehicles - Functional safety - Part 12: Adaptation for
motorcycles**

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Foreword

This document was drafted in accordance with the rules provided in GB/T 1.1-2020 Directives

for Standardization - Part 1.Rules for the Structure and Drafting of Standardizing Documents.

This document is Part 12 of GB/T 34590 Road Vehicles - Functional Safety. GB/T 34590 has

issued the following parts.

- Part 1.Vocabulary;
- Part 2.Management of Functional Safety;
- Part 3.Concept Phase;
- Part 4.Product Development at the System Level;
- Part 5.Product Development at the Hardware Level;
- Part 6.Product Development at the Software Level;
- Part 7.Production, Operation, Service and Decommissioning;
- Part 8.Supporting Processes;
- Part 9.Automotive Safety Integrity Level (ASIL)-oriented and Safety-oriented Analyses;
- Part 10.Guideline;
- Part 11.Guidelines on Applications to Semiconductors;
- Part 12.Adaptation for Motorcycles.

This document has been modified using ISO 26262-12.2018 Road Vehicles - Functional Safety

- Part 12.Adaptation of ISO 26262 for Motorcycles.

The technical differences between this document and ISO 26262-12.2018, and the causes for

these differences are as follows.

-- The normative reference GB/T 34590.1-2022 is used to replace ISO 26262-1, so as to adapt to the technical conditions of China and enhance the operability (see Chapter 3);

---The description of T&B is modified from "truck, bus, trailer and semi-trailer" into "goods vehicle, bus, special vehicle, trailer" (see 4.6; 4.6 of ISO 26262-8.2018), so as to maintain the consistency with the types of vehicles specified in GB/T 3730.1-2022 Terms and Definitions of Motor Vehicles, Trailers and Combination Vehicle - Part 1.

Types;

---The description of "stress test" is modified from "stress tests" into "stress tests (such as high load test and high environment test)" (see 10.4.3.4);

---The description of a suitable rationale for the CCP selection is modified from "a suitable rationale can be provided for the CCP selected" into "a suitable rationale shall be provided for the CCP selected" (see C.2).

This document also makes the following editorial modifications.

-- The sequence of paragraphs in the Scope is adjusted;

---The sub-clauses 8.4.5.1, 10.4.2.1 and 10.4.4.1 are deleted;

---The Introduction and its expression of the International standard are modified.

Please be noted that certain content of this document may involve patents. The institution issuing this document does not undertake the responsibility of identifying these patents.

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

This document shall be under the jurisdiction of National Technical Committee 114 on Auto of

Standardization Administration of China (SAC/TC 114).

The drafting organizations of this document. China Automotive Technology and Research Center Co., Ltd.; Tianjin Internal Combustion Engine Research Institute (Tianjin Motorcycle Technology Center); CCIC West Co., Ltd.; BOSCH Auto Parts (Suzhou) Co., Ltd.; Hitachi Astemo Automotive Electronics (Shanghai) Co., Ltd.; Schaeffler (China) Co., Ltd.; Hella Shanghai Electronics Co., Ltd.; CRRCTIMES Electric Vehicle Co., Ltd.; BYD Auto Industry

Co., Ltd.; Hubei e-CarX Technology Co., Ltd.; Suzhou Inovance United Power System Co., Ltd.; United Automotive Electronic Systems; Beijing Borgward Automotive Co., Ltd.

1 Scope

This document specifies the requirements for adaptation for motorcycles, including the following.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited

applies. For undated references, the latest edition of the referenced document (including any

amendments) applies.

GB/T 34590.1-2022 Road Vehicles - Functional Safety - Part 1.Vocabulary (ISO 26262-1:2018,

MOD)

3 Terms and Definitions

The terms and definitions defined in GB/T 34590.1-2022 are applicable to this document.

4 Requirements for Compliance

The results of safety activities are given as work products. "Prerequisites" are information which shall be available as work products of a previous phase. Given that certain requirements

of a clause are ASIL-dependent or may be tailored, certain work products may not be needed

as prerequisites.

For items or elements of motorcycles for which requirements of this document are applicable,

the requirements of this document supersede the corresponding requirements in other parts.