

ICS 43.020
CCS T40



中华人民共和国国家标准
NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 47955-2026

**Intelligent and Connected Vehicle—Safety Requirements
of Combined Driver Assistance System**
智能网联汽车 组合驾驶辅助系统安全要求

(English Translation)

Issued on 2026-06-27

Implemented on 2027-01-01

Jointly Issued by

State Administration for Market Regulation of the People's Republic of China &
Standardization Administration of the People's Republic of China

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FOREWORD

This document is drafted in accordance with the rules given in GB/T 1.1-2020 *“Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents”*.

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Intelligent and Connected Vehicle—Safety Requirements of Combined Driver Assistance System

1 SCOPE

This document specifies the safety requirements and criteria for determination of the same type with respect to advanced combined driver assistance system, basic single-lane combined driver assistance system, and basic multi-lane combined driver assistance system of the intelligent and connected vehicles (ICV), and describes the corresponding inspection and test methods.

This document is applicable to Categories M and N vehicles equipped with advanced combined driver assistance system, basic single-lane combined driver assistance system, or basic multi-lane combined driver assistance system.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB 5768.3	Traffic signs and markings—Part 3: Traffic markings
GB 5768.4-2017	Road traffic signs and markings—Part 4: Work zone
GB/T 10000-2023	Human dimensions of Chinese adults
GB 11551	The protection of the occupants in the event of a frontal collision for motor vehicle
GB/T 12534	Motor vehicles--General rules of road test method
GB 16735	Road vehicle—Vehicle identification number (VIN)
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 28046.1-2011	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 1: General
GB/T 28046.4-2011	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads
GB/T 28650-2012	Road safety barrel
GB/T 30038-2013	Road vehicles - Degrees of protection (IP-Code) - Protection of electrical equipment against foreign objects, water and access
GB/T 34589-2017	Road vehicles—Diagnostic connector
GB/T 34590 (all parts)	Road vehicles—Functional safety
GB 34660-2026	Road vehicles—Requirements and test methods of electromagnetic compatibility
GB/T 34847-2017	General technical requirements of polyethylene barrier
GB/T 39265-2020	Road vehicles—Performance requirements and testing methods for blind spot detection (BSD) system
GB/T 39323	Performance requirement and testing method for lane keeping assist (LKA) system of passenger cars
GB 39732-2020	Vehicle event data recorder system
GB 39901	Technical requirements and testing methods for advanced emergency

	braking system of light-duty vehicles
GB/T 40429	Taxonomy of driving automation for vehicles
GB/T 40822	Road vehicles—Unified diagnostic services
GB/T 41796	Performance requirements and test methods for lane keeping assist system of commercial vehicles
GB/T 43258.4	Road vehicles—Diagnostic communication over Internet Protocol (DoIP)—Part 4: Ethernet-based high-speed data link connector
GB/T 43267	Road vehicles—Safety of the intended functionality
GB/T 44461.1-2024	Intelligent and connected vehicle—Technical requirements and testing methods for combined driver assistance system—Part 1: Single-lane maneuver
GB/T 44461.2-2024	Intelligent and connected vehicle—Technical requirements and testing methods for combined driver assistance system—Part 2: Multi-lane maneuver
GB 44497-2024	Intelligent and connected vehicle—Data storage system for automated driving
GB/T 45312	Intelligent and connected vehicles—Operational design condition for automated driving system
GA/T 115-2020	Evaluation methods for road traffic congestion levels
ISO 15765-2:2024	Road vehicles - Diagnostic communication over Controller Area Network (DoCAN)- Part 2: Transport protocol and network layer services Note: GB/T 39851.2-2021, Road vehicles—Diagnostic communication over Controller Area Network (DoCAN)—Part 2: Transport protocol and network layer services (ISO 15765-2:2016, MOD)
ISO 19206-2	Road vehicles — Test devices for vehicle targets, vulnerable road users and other objects, for assessment of active safety functions - Part 2: Requirements for pedestrian targets
ISO 19206-3	Road vehicles — Test devices for vehicle targets, vulnerable road users and other objects, for assessment of active safety functions - Part 3: Requirements for passenger vehicle 3D targets
ISO 19206-4	Road vehicles — Test devices for vehicle targets, vulnerable road users and other objects, for assessment of active safety functions -Part 4: Requirements for bicyclist targets
ISO 19206-5	Road vehicles — Test devices for vehicle targets, vulnerable road users and other objects, for assessment of active safety functions -Part 5: Requirements for powered two-wheeler targets

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions established in GB/T 40429, GB/T 44461.1, GB/T 44461.2 and GB/T 34590.1 as well as the following apply.

3.1 combined driver assistance system (CDAS)

a system consisting of hardware and software that continuously performs lateral and longitudinal vehicle motion control in the dynamic driving task (DDT) under its operational design condition (ODC), and has partial object and event detection and response capabilities appropriate to the lateral and longitudinal vehicle motion control being performed

Note 1: The CDAS is classified into four system categories, i.e., basic single-lane combined driver assistance system, basic multi-lane combined driver assistance system, advanced combined driver assistance system, and parking combined driver assistance system; each category is

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