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Performance Requirements and Test Methods for Lane
Keeping Assist System of Commercial Vehicles
商用车辆车道保持辅助系统性能要求及试验方法

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Performance Requirements and Test Methods for Lane Keeping Assist System of Commercial Vehicles

1 Scope

This document specifies the terms and definitions, symbols, technical requirements, and test methods for lane keeping assist (LKA) system of commercial vehicles.

This document applies to category M₂, M₃ and N vehicles equipped with the LKA system (hereinafter referred to as "system") which has the function of lane departure prevention.

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/T 3730.2-1996	Road vehicle – Masses - Vocabulary and codes
GB 5768 (all parts)	Road traffic signs and markings
GB 34660	Road Vehicles - Requirements and Test Methods of Electromagnetic Compatibility
GB/T 39263-2020	Road Vehicles - Advanced Driver Assistance Systems - Terms and Definitions

3 Terms and Definitions

For the purposes of this document, the terms and definitions given in GB/T 39263-2020 and the followings apply.

3.1

Lane keeping assist (LKA)

The function which monitors the relative position between the vehicle and the lane boundary line in real time, and controls the lateral movement of the vehicle in a consecutive manner or where necessary with the intention of keeping the vehicle within the initial lane

3.2

Lane departure prevention (LDP)

The function which monitors the relative position between the vehicle and the lane boundary line in real time, and controls the lateral movement of the vehicle when lane departure is going to occur to the vehicle, with the intention of helping the driver to keep the vehicle within the initial lane

3.3

Lane departure warning (LDW)

The function which monitors the vehicle driving status within the current lane in real time, and gives warning information when any unintended lane departure occurs or is going to occur



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