

ICS 43.040.10  
T 36



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

GB 34660-2017

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**Road Vehicles - Requirements and Test Methods of  
Electromagnetic Compatibility**  
**道路车辆 电磁兼容性要求和试验方法**

*(English Translation)*

Issued on November 01, 2017

Implemented on January 01, 2018

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Jointly Issued by

General Administration of Quality Supervision, Inspection and Quarantine of the People's  
Republic of China & Standardization Administration of the People's Republic of China

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# Road Vehicles - Requirements and Test Methods of Electromagnetic Compatibility

## 1 SCOPE

This standard specifies the electromagnetic emission limits, immunity performance and test methods for vehicles and their electrical/electronic sub-assemblies (ESA).

This standard applies to the vehicles of Categories M, N and L and their ESAs. Category O and other 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 edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- GB/T 6113.104-2008 Specification for Radio Disturbance and Immunity Measuring Apparatus and Methods - Part 1-4: Radio Disturbance and Immunity Measuring Apparatus - Ancillary Equipment - Radiated Disturbances
- GB/T 18655-2010 Vehicles, Boats and Internal Combustion Engines - Radio Disturbance Characteristics - Limits and Methods of Measurement for the Protection of On-board Receivers
- GB/T 21437.2-2008 Road Vehicles - Electrical Disturbances from Conduction and Coupling - Part 2: Electrical Transient Conduction along Supply Lines Only
- GB/T 29259 Road Vehicle - Electromagnetic Compatibility Terminology
- GB/T 33012.1-2016 Road Vehicles - Vehicle Test Methods for Electrical Disturbances from Narrowband Radiated Electromagnetic Energy - Part 1: General
- GB/T 33012.2-2016 Road Vehicles - Vehicle Test Methods for Electrical Disturbances from Narrowband Radiated Electromagnetic Energy - Part 2: Off-vehicle Radiation Sources
- GB/T 33012.4-2016 Road Vehicles - Electrical Disturbances from Narrowband Radiated Electromagnetic Energy - Part 4: Bulk current injection (BCI)
- GB/T 33014.1-2016 Road Vehicles - Component Test Methods for Electrical/Electronic Disturbances from Narrowband Radiated Electromagnetic Energy - Part 1: General
- GB/T 33014.2-2016 Road Vehicles - Component Test Methods for Electrical/Electronic Disturbances from Narrowband Radiated Electromagnetic Energy - Part 2: Absorber-lined Shielded Enclosure
- GB/T 33014.3-2016 Road Vehicles - Component Test Methods for Electrical/Electronic Disturbances from Narrowband Radiated Electromagnetic Energy - Part 3: Transverse electromagnetic (TEM) Cell
- GB/T 33014.4-2016 Road Vehicles - Component Test Methods for Electrical/Electronic Disturbances from Narrowband Radiated Electromagnetic Energy - Part 4: Bulk Current Injection (BCI)
- GB/T 33014.5-2016 Road Vehicles - Component Test Methods for Electrical/Electronic Disturbances from Narrowband Radiated Electromagnetic Energy - Part 5: Stripline
- CISPR 12:2005 Vehicles Boats and Internal Combustion Engine Driven Devices - Radio Disturbance Characteristics - Limits and Methods of Measurement

### **3 TERMS AND DEFINITIONS**

For the purposes of this document, the terms and definitions given in GB/T 29259 and the following apply.

#### **3.1 Electrical/electronic sub-assembly (ESA)**

the electrical/electronic device or assembly, together with any associated electrical connections, which performs one or more specialized functions

#### **3.2 Vehicle wiring harness**

the power cables, bus system (e.g., CAN) cables, signal or active antenna cables, which are installed on the vehicle

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