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

**中华人民共和国国家标准**

GB/T 21437.2-2008/ISO 7637-2: 2004

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**Road vehicles—Electrical disturbances from  
conduction and coupling—Part 2: Electrical transient  
conduction along supply lines only**

**道路车辆 由传导和耦合引起的电骚扰**

**第 2 部分：沿电源线的电瞬态传导**

(ISO 7637-2: 2004, IDT)

**Issued on February 15, 2008**

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China**

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## Foreword

GB/T 21437 *Road vehicles - Electrical disturbances from conduction and coupling* consists of three parts:

- Part 1: Definitions and general considerations;
- Part 2: Electrical transient conduction along supply lines only;
- Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines.

This is part two of GB/T 21437, identical with ISO 7637-2: 2004 *Road vehicles — Electrical disturbances from conduction and coupling — Part 2: Electrical transient conduction along supply lines only*.

Editing changes as: Added note of  $U_A$ ,  $U_B$  into table 1.

Annex A, C, D of this Part are normative annex, Annex B, E and F of this Part are informative annex.

This Standard is proposed by State Development and Reform Commission (SDRC)

This Standard is under the jurisdiction of National Technical Committee on Road Vehicles of Standardization Administration of China.

The responsible drafting organization is China Automotive Technology & Research Center (CATARC).

The participation drafting organizations are Shanghai-Volkswagen Co., Ltd, The Research Institute of Telecommunications Transmission and Changsha Automobile Electric Appliance Research Institute.

The chief drafting staff of this standard includes Xu Li, Liu Xin, Liu Xinliang, Zou Dongqi, Hu Mengjiao and Lin Yanping.

# **Road vehicles—Electrical disturbances from conduction and coupling—Part 2: Electrical transient conduction along supply lines only**

## **1 Scope**

This part specifies bench tests for testing the compatibility to conducted electrical transients of equipment installed on passenger cars and light commercial vehicles fitted with a 12 V electrical system or commercial vehicles fitted with a 24 V electrical system — for both injection and the measurement of transients. Failure mode severity classification for immunity to transients is also given.

This part is applicable to these types of road vehicle, independent of the propulsion system (e.g. spark ignition or diesel engine, or electric motor).

## **2 Normative References**

The articles contained in the following documents have become this Part of GB/T 21437 when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 21437.1 Road vehicles - Electrical disturbances from conduction and coupling -Part 1: Definitions and general considerations (GB/T 21437.1-2008, ISO 7637-1: 2002, IDT)

ISO 8854: 1998 Road vehicles — Alternators with regulators — Test methods and general requirements

## **3 Terms and definitions**

For the purpose of this part, the following terms and definitions given in GB/T 21437.1 shall apply.



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