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THE PEOPLE'S REPUBLIC OF CHINA

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GB/T 12548-2016

Replacing GB/T 12548-1990

**Motor vehicles speedometer
and odometer calibration method**

汽车速度表、里程表检验校正方法

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 12548-1990 Motor vehicles - Speedometer and odometer - Calibration method. Compared with GB/T 12548-1990, the main technical changes are as follows:

- re-arranged the normative references according to the provisions of GB/T 1.1-2009;
- modified “test conditions” and added 3.2 “vehicle conditions”;
- deleted test method for “wheel rolling radius”;
- deleted 4.1 “calibration method for odometer” and 4.2 “calibration method for speedometer”;
- modified Annex A “Speedometer, odometer inspection calibration recording table”.

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

This Standard shall be under the jurisdiction of National Technical Committee on Automobile of Standardization Administration of China (SAC/TC 114).

Main drafting organizations of this Standard: Anhui Jianghuai Automobile Co., Ltd., China Automotive Technology Research Center, Liuzhou Wuling Automobile Industry Co., Ltd., Guangzhou Automobile Group Co., Ltd. Automotive Engineering Research Institute, Shanghai Motor Vehicle Testing Center, China Automotive Engineering Research Institute Co., Ltd., China National Heavy Duty Truck Group Jinan Power Co., Ltd., Hainan Tropical Automobile Test Co., Ltd., Xiangyang Dahong Automobile Testing Center, Shanghai Automotive Group Co., Ltd., Pan Asia Automotive Technology Center Co., Ltd., SAIC - GM Wuling Automobile Co., Ltd., Dongfeng Motor Co., Ltd. Dongfeng Nissan Passenger Car Company, FAW Toyota Technology Development Co., Ltd., Guangzhou Automobile Toyota Motor Co., Ltd., Beiqi Foton Motor Co., Ltd., Zhengzhou Yutong Bus Co., Ltd., Brilliance Automotive Group Holdings Limited, Dongfeng Peugeot Citroen Automobile Co., Ltd., FAW - Volkswagen Automobile Co., Ltd., Daimler Greater China Investment Limited, BMW (China) Service Limited, Toyota Automotive R & D Center (China) Co., Ltd. Beijing Branch.

Main drafters of this Standard: Xu Qingkui, Ge Shengxun, Wang Xuming, Wei Xiaohua, Gao Yue, Wang Xueping, Liu Guibin, Wen Daizhi, Dou Zhiyong,

Motor vehicles speedometer and odometer calibration method

1 Scope

This Standard specifies the calibration method for speedometer and odometer mounted on vehicle.

This Standard is applicable to all kinds of vehicles.

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 12534, *Motor vehicles - General rules of road test method*

3 Test conditions

3.1 Measurement parameters and units, accuracy

The measurement parameters, units and accuracy are shown in Table 1.

Table 1 Measurement parameters and units, accuracy

Parameter	Unit	Accuracy
Time	s	$\pm 0.1\text{s}$
Length	m	$\pm 0.1\%$
Atmospheric temperature	$^{\circ}\text{C}$	$\pm 1^{\circ}\text{C}$
Atmospheric pressure	kPa	$\pm 1\text{ kPa}$
Speed	km/h	$\pm 0.1\text{ km/h}$

3.2 Vehicle conditions

3.2.1 Vehicle preparation

Prior to test, it shall use appropriate way to make the vehicle to normal operating temperature.

3.2.2 Loading weight

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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