



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

GB/T 5620-2020

**Road vehicles - Vocabulary and definition for braking of
automotive vehicles and their trailers**

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Foreword

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

This Standard replaces GB/T 5620-2002 "Road vehicles - Braking of automotive vehicles and their trailers - Vocabulary". Compared with GB/T 5620-2002, the main technical changes of this Standard are as follows.

- ADD endurance braking system and its control device types to the braking systems (see 3.2.4);

- ADD terms and definitions of braking systems relating to transmission means (see 4.2);
- Adjust the relevant terms of brake components to Clause 5 (see 5.5.1; Clause 9 of the 2002 edition);
- ADD the terms and definitions of "categories of retarder" and "auxiliary device consuming energy" (see 5.5.3.1, 5.14);
- Delete the term and definition of "non-continuous braking system" (see

5.3.5 of the 2002 edition);

- Modify the definition of "retarder" (see 5.5.3; 4.5.3 of the 2002 edition);
- ADD terms and definitions of "engine brake", "exhaust retarder", "hydrodynamic retarder", "hydrostatic retarder", "permanent-magnetic retarder", "regenerative braking retarder", and "mechanical regenerative braking retarder" (see 5.5.3.2.1, 5.5.3.2.3, 5.5.3.2.5.1, 5.5.3.2.5.2, 5.5.3.2.6.2, 5.5.3.2.6.3, 5.5.3.2.7);
- Delete the term and definition of "friction retarder" (see 4.5.3.6 of the 2002 edition);
- ADD terms such as "traction control system", "stability control system", "brake hold and release aid", "autonomous intelligent cruise control", and "coupling force control system" and their definitions (see 6.2, 6.3, 6.4, 6.5, 6.6);
- Adjust the terms related to the surface condition of brake linings to Clause

7 (see 7.1; 9.5 of the 2002 edition);

- ADD "brake application", "brake actuation", "brake release", "actuation threshold", "clamping", "brake release position", "braking performance", "braking slip", "adhesion utilization", "compatibility", as well as terms and definitions related to the coefficient of friction (see 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.18, 9.19, 9.20, 9.21);
- LIST the terms related to pressures separately; ADD terms such as "cut-

out pressure" and "cut-in pressure" and their definitions (see Clause 10; 6.4 of the 2002 edition);

- ADD the terms and definitions of "graduated braking", "automatic braking", "automatically commanded braking", "selective braking", "predominance", "running clearance", "circuit" and "braking modulation" (see Clause 11).

This Standard, using translation method, is identical to ISO 611.2003 "Road vehicles - Braking of automotive vehicles and their trailers - Vocabulary".

China's document which has a consistent correspondence with the international document normatively referenced in this Standard is as follows.

- GB/T 3730.1-2001 Motor vehicles and trailers - Types - Terms and definitions (ISO 3833.1977, MOD).

This Standard has made the following editorial changes.

- CHANGE the standard name to "Road vehicles - Vocabulary and definition for braking of automotive vehicles and their trailers";
- REWRITE the definitions of some terms in accordance with Chinese language conventions.

This Standard was proposed by Ministry of Industry and Information Technology of the PRC.

This Standard shall be under the jurisdiction of National Technical Committee of Auto Standardization (SAC/TC 114).

Drafting organizations of this Standard. Technical Center of China FAW Group Co., Ltd., Guangdong Automotive Test Center Co., Ltd., Zhejiang VIE Science & Technology Co., Ltd.

Main drafters of this Standard. Lin Dahai, Xiao Wenjian, Hou Zonggang, Liu Jianguang, Wang Yufeng, Lv Zheng.

The previous editions of the standard replaced by this Standard were released as follows.

- GB/T 5620.1-1985, GB/T 5620.2-1985;

- GB/T 5620-2002.

Road vehicles - Vocabulary and definition for braking
of automotive vehicles and their trailers

1 Scope

This Standard defines the principal terms used in relation to the braking and braking equipment of motor vehicles and trailers as defined in ISO 3833.

2 Normative references

The following documents are indispensable for the application of this document.
For the dated references, only the editions with the dates indicated are applicable to this document. For the undated references, the latest edition (including all the amendments) are applicable to this document.

3 Braking systems and equipment - General

Braking system allowing the driver to control, directly or indirectly and in a graduated manner, the speed of a vehicle during normal driving or to bring the vehicle to a halt.

4 Classification of braking systems

Braking system in which the energy required for braking is supplied by one or more compressed springs acting as an energy storage accumulator.

5 Braking system components

A braking system consists of connected devices which supply energy, control and transmit that energy to the brakes and, if necessary, via supplementary devices on the towing vehicle, to the brakes of a towed vehicle.

Friction brake in which the friction forces are produced between the components attached to a fixed part of the vehicle and the faces of one (more) discs.