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

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**Road vehicles - Wheels and rims - Use, general maintenance
and safety requirements and out-of-service conditions**

(English Translation)

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Foreword

This document was drafted in accordance with the rules provided in GB/T 1.1-2020 Directives

for Standardization - Part 1.Rules for the Structure and Drafting of Standardizing Documents.

This document modifies and adopts ISO 14400.2021 Road Vehicles - Wheels and Rims - Use,

General Maintenance and Safety Requirements and Out-of-service Conditions.

In comparison with ISO 14400.2021, this document makes the following structural adjustment.

---The clause numbers in Chapter 4, Chapter 5 and Chapter 6 correspond to the paragraphs

in Chapter 4, Chapter 5 and Chapter 6 of ISO 14400.2021.

The technical differences between this document and ISO 14400.2021 and the causes for the

differences are as follows.

---The Scope is modified (see Chapter 1) to adapt to the technical conditions of China;

---ISO 3911 is replaced by the normative reference GB/T 2933 (see Chapter 3) to adapt to the technical conditions of China.

Please be noted that certain content of this document may involve patents. The institution issuing this document does not undertake the responsibility of identifying these patents.

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

This document shall be under the jurisdiction of National Technical Committee 114 on Auto of

Standardization Administration of China (SAC/TC 114).

The drafting organizations of this document. Changchun FAWAY Group Automobile Components Co., Ltd.; Dongfeng Motor Chassis Systems Co., Ltd.; Xingmin Lichi Co., Ltd.; Zhengxing Wheel Group Co., Ltd.; CITIC Dicastal Co., Ltd.; Qilu Wheel Industry Co., Ltd.; Jining Junda Machinery Manufacturing Co., Ltd.; Baoding Lizhong Wheel Manufacturing Co.,

Ltd.; Zhejiang Jingu Co., Ltd.; Jiangsu POMLEAD Co., Ltd.; Wanfeng Auto Wheel Co., Ltd.; Jiangsu KAITE Auto Parts Co., Ltd.

1 Scope

This document specifies the general requirements for the use, maintenance and safety of wheels

and rims (including multi-piece wheels and rims) and the out-of-service conditions.

This document applies to wheels used on vehicles, trailers and combination vehicles.

2 Normative References

The contents of the following documents constitute indispensable clauses of this document through the normative references in the text. In terms of references with a specified date, only

versions with a specified date are applicable to this document. In terms of references without a

specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 2933 Wheels and Rims for Pneumatic Tyres - Vocabulary, Designation and Marking (GB/T 2933-2009, ISO 3911.2004, IDT)

3 Terms and Definitions

The terms and definitions defined in GB/T 2933 are applicable to this document.

4 General Requirements for Use and Maintenance

WARNING. for multi-piece rims, the use of the wrong annular components may result in catastrophic wheel faults.

4.1.1 Unconfirmed wheels or wheel components shall not be used even if they appear to have

the appropriate functions and the same dimensions. In order to ensure proper assembly and

effective load transmission, the characteristics of the wheel center dimensions shall completely

comply with the requirements of automobile parts, especially the hub axle and brake.

4.1.2 The bead seat shall be lubricated with a neutral non-corrosive lubricant or grease. The

hub, bolts, nuts and wheel mounting surfaces shall be clean. For multi-piece wheels, all contact

surfaces shall be clean.

4.1.3 In accordance with the requirements of Chapter 6, check the out-of-service condition of

the parts. If cleaning cannot restore the original condition of the mating surface of the parts, or

the parts have any of the circumstances described in Chapter 6, then, the parts shall be replaced.

4.2.1 The mounting and removal of wheels shall be completed by trained personnel and the

correct tools shall be used for the operation.

4.2.2 For multi-piece rims, before inflating the tire, check the correct positions of the lock ring,

retaining ring, "O"-shaped rubber ring or sealing ring to avoid correction with a hammer; if

the

positioning is incorrect, the tire shall be completely deflated, and the complete mounting process shall be repeated.

4.2.3 When inflating the tire, the wheel shall be placed in a safety cage, or a safety chain shall

be wrapped around the wheel. The operator shall not stay in the danger zone or near the track.

The track refers to any potential path or route of the wheel components during explosive separation or sudden release of compressed air, or the range of air flow release of one-piece

wheel rim, as shown in the shaded area of Figure 1. The tire shall be maintained at the specified

inflation pressure and regularly checked, otherwise, damage to the tire and / or wheel rim may

occur.

4.2.4 For multi-piece rims and divided (bolted) wheels, for safety reasons, before removing the

bolts from the wheel and tire assembly on the axle, the tire shall be completely deflated. This

safety requirement also applies to wheels with dual tires mounted side by side.

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