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JJG

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

JJG 927-2013

Replacing JJG 927-1997

**Verification Regulation of Tyre Pressure Gauges
(English Translation)**

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6.5 Test cycle (4)

Appendix A tire pressure gauge calibration record format (5)

Appendix B tire pressure gauge calibration certificate/test results in the notice page format (6)

Introduction

JJF1002 "national verification procedures write rules", JJF1001 "common measurement terms and definitions" JJF1059 "Evaluation and Expression of Uncertainty in Measurement" series together constitute the basic norms of the regulations revision.

This procedure combined with China's national conditions, the use of the International Organization of Legal Metrology (OIML) International Recommendation R23 "motor vehicle

Tire pressure gauge, "the part. This procedure is in JJG 927-1997 "tire pressure gauge" on the basis of reservations Revision under the premise of effective content. This procedure compared with JJG 927-1997, in addition to editorial changes, the the main technical changes are as follows.

- Press JJF1002-2010 requirements, increasing the content of the Preamble;
- Revised content in the range of the upper limit of the measuring range;
- Improve the content of the overview;
- Added "variation amount indication" in the measurement of the performance requirements;
- Straighten out the order of test items and test methods;
- Revised and improved tire pressure gauge tolerance of technical specifications;
- The original test procedure Appendix recording format made the appropriate changes.

Tire pressure gauge test procedures

1 Scope

The order applies to the measurement limit of (0.6 ~ 2.5) MPa, measuring tire pressure gauge pointer and pressure

Table (hereinafter referred to as gauge) initial verification, subsequent verification and the use of checks.

2 Overview

Its structure gauge principle can be divided into two types. one Analog gauges, elastic sensing element in the instrument cluster Elastic deformation under pressure generated by the rotation pointer mechanical transmission amplification mechanism in the sub-dial indicates the pressure Value by the pressure gauge internal homing device, and can keep the cursor in the pressure indication position; the second is type pressure gauge Gauge, ruler produced with the plunger to move under pressure, and stabilize at a certain position, by shifting the scale Moving distance scale and the scale indicates a pressure value. Both types have a tire pressure gauge valve Phase gas nozzle head connected.

Unit 3

Unit of measurement gauge is Pa (Pascal), or its decimal multiples units. kPa and MPa.

4 metering performance requirements

4.1 Measurement limit and accuracy class the measurement limit gauge accuracy rating shall comply with the requirements in Table 1.

Table 1 Measurement limit and accuracy class

Type measurement limit/MPa accuracy class Analog 0.6 1.0,1.6 1.0 1.6,2.5,4 1.6 1.6,2.5,4
2.5 1.6,2.5,4 Ruler of formula 4 2.5

4.2 Indication error Gauge indication error in Table 2 should not exceed the maximum allowable error.

Table 2 Maximum permissible error

Accuracy Level

The maximum permissible error the measurement limit (90 to 100)% the rest $1.0 \pm 1.6\% \pm 1.0\%$ $1.6 \pm 2.5\% \pm 1.6\%$ $2.5 \pm 4.0\% \pm 2.5\%$ $4.0 \pm 4.0\% \pm 4.0\%$ Note. The maximum permissible error in the range of percentage calculations.