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JJF 1813-2020

Calibration Specification for Tire Pressure Monitoring Systems(TPMS)

轮胎压力监测系统校准规范

(English Translation)

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7.4 Recalibration interval (5)

Appendix A Original Record Reference Format of Tire Pressure Monitoring System (6)

Appendix B. Reference format of the inner page of the tire pressure monitoring system calibration certificate (7)

Appendix C Evaluation of Uncertainty of Measurement Results of Tire Pressure Monitoring System Indication Error (8)

Introduction

This specification is based on JJF 1071-2010 "Rules for the Compilation of National Metrology and Calibration Specifications", JJF 1001 "General Metrology Terms and Definitions", JJF 1059.1 "Evaluation and Expression of Measurement Uncertainty" are the basic series of specifications.

This specification mainly refers to FMVSS138 "Tire Pressure Monitoring System" (Tire Pressure Monitoring System) Systems, U.S. Automotive Safety Technical Regulations), ISO 21750:2006 "Road vehicles used to improve vehicle safety Sexual Tire Pressure Monitoring System (Roadvehicles-Safetyenhancementinconjunctionwithtyre inflationpressuremonitoring, quality management system documents), SAEJ2657.2004 "Light Road Vehicles Tire Pressure Monitoring System" (TirePressureMonitoringSystemsforLightDutyHighway Vehicles, American Society of Motor Vehicle Engineers) and other relevant regulations and documents.

This specification is released for the first time.

Calibration specification for tire pressure monitoring system

1 Scope

This specification applies to the calibration of tire pressure monitoring systems.

2 Reference documents this specification refers to the following documents.

JJF 1001-2011 General measurement terms and definitions JJF 1059.1-2012 Measurement Uncertainty Evaluation and Expression FMVSS138 Tire Pressure Monitoring System (TirePressureMonitoringSystems) ISO 21750:2006 Road vehicle tire pressure monitoring system for improving vehicle safety (Road vehicles-Safetyenhancementinconjunctionwithtyreinflationpressuremonitoring) SAEJ2657.2004 Tire Pressure Monitoring System for Light Road Vehicles (TirePressureMonitoring SystemsforLightDutyHighwayVehicles) for dated reference documents, only the dated version applies to this specification; for undated references the latest version (including all amendments) is applicable to this specification.

3 Term

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3.1 Tire Pressure Monitoring System TirePressureMonitoringSystems (TPMS) Installed on the vehicle, it can monitor tire pressure and other parameters in real time, and use visual signals (or auditory signals) Line display and alarm to improve the auxiliary system of car driving safety.

3.2 Tire pressure monitoring module TPMsensormodule an assembly of components installed inside the tire or on the surface of the wheel to measure the tire pressure of the vehicle and transmit information.

3.3 Receiver module A device for collecting and processing the output information of the tire pressure monitoring module.

3.4 display module A device used to display information such as graphic symbols, text, or numerical values indicating alarms.

3.5 cold tire pressure recommendedcoldtyreinflationpressure(Prec) the air pressure value recommended by the vehicle manufacturer for the tires at each location for the predetermined working conditions of the specified vehicle.

4 overview

The tire pressure monitoring system (hereinafter referred to as the monitoring system) is installed in the vehicle wirelessly (or wired) it can monitor tire pressure and other parameters in real time, and display and alarm with visual signals (or auditory signals) auxiliary system. The system is composed of tire pressure monitoring module, receiver module and display module. When the vehicle is driving normally, the driver can clearly understand the real-time pressure value of each tire through the display module. The system has overvoltage or undervoltage

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