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JJF 1749-2019

Calibration Specification for Vehicle Contour Dimensions Testers

汽车外廓尺寸检测仪校准规范

(English Translation)

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Appendix A Calibration Records of Automobile External Dimensions Tester (5)

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Introduction

This specification is based on JJF 1059.1-2012 "Measurement Uncertainty Evaluation and Expression", JJF 1071-2010 "National the requirements of the "Writing Rules for the

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Calibration Standards".

This specification refers to GB 1589-2016 "External Dimensions, Axle Loads and Mass Limits of Automobiles, Trailers, and Trains", GB 18565-2016 "Comprehensive performance requirements and inspection methods of road transport vehicles", GB 21861-2014 "Motor vehicles Safety technical inspection items and methods", GB/T 3730.3 "Terms and definitions of vehicles and trailers and vehicle dimensions" Formulated with GB/T 15089 "Classification of Motor Vehicles and Trailers".

This specification is the first release.

Calibration Specification of Automobile External Dimension Tester

1 Scope

This specification is applicable to the calibration of the car's external dimension detector.

2 Reference documents this specification refers to the following documents.

GB 1589-2016 Cars, trailers and car trains, external dimensions, axle loads and quality limits GB/T 3730.3 Terms and Definitions of Automobiles and Trailers GB 18565-2016 Comprehensive performance requirements and inspection methods of road transport vehicles GB 21861-2014 Motor vehicle safety technical inspection items and methods for dated reference documents, only the dated version applies to this specification; for those without date references the latest version (including all amendments) is applicable to this specification.

3 Overview

The car outline size detector (hereinafter referred to as the detector) is used to automatically measure the car outline size (length, width, High) devices generally use optical imaging, infrared or laser technology. The detector mainly includes the front-end collection system System and back-end analysis processing system.

4 Metering characteristics

4.1 Indication error According to 5.1.1.1 in GB 18565-2016 and Appendix A.1.2 in GB 21861-2014, the maximum length is Allowable error. ±0.8% or ±50mm; width and height maximum allowable error. ±0.8% or ±20mm.

4.2 Repeatability

Generally not more than 0.8%.

Note: The above indicators are not suitable for qualification judgment, and are for reference only.

5 Calibration conditions

5.1 Environmental conditions

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5.1.1 Ambient temperature. -10°C~45°C;

5.1.2 Environmental relative humidity. not more than 85%.

5.1.3 Calibration should be performed in an environment free of pollution, light, vibration, electromagnetic interference, etc.

5.2 Measurement standards and other equipment See Table 1 for measurement standards and other equipment.

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