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

JJF 1154-2014

Replacing JJF 1154-2006

**Calibration Specification for Four-wheel Aligners
(English Translation)**

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Introduction

JJF 1154-2014 "wheel alignment calibration norms" (hereinafter referred to as "the Rules") is four Locator school Accurate measurement specifications. Wheel alignment automotive manufacturing and maintenance business for detecting a vehicle wheel alignment parameters, and Compared with the design parameters to guide the user to adjust the wheel alignment parameters of the instrument.

JJF 1071-2010 "National Calibration Specifications writing rules", JJF 1059.1-2012 "Measurement Uncertainty Evaluation and Expression "and JJF 1001-2011" common measurement terms and definitions of "together constitute the support base of the code revision the foundation of the series specifications.

This specification is based on JT/T 505-2004 "wheel alignment" as the main reference standard edition JJF 1154-2006 Subject to revisions. Compared with JJF 1154-2006 "wheel

alignment", in addition to editorial changes, the major technological change as follows.

--- Increased 3D image four-wheel locator and online non-contact wheel alignment in the scope, as well as Corresponding schematic.

--- The technical requirements for wheel alignment calibration device, calibration device simulation clearly defined and simulated axes Tread Distance requirements, and other requirements indication error.

--- Increasing the toe angle single round in the calibration project, camber zero error and Kingpin Inclination indication error calibration.

--- On a single round before toe angle, camber, caster (inner) angle measurement range, showing error and repeat Sex has been modified.

--- Increasing the wheel alignment calibration method calibration apparatus in Appendix B.

The previous versions of this specification published case.

--- JJF 1154-2006.

Wheel alignment calibration specification

1 Scope

This instruction applies to wheel alignment (type photoelectric sensor wheel alignment, 3D images and in four-wheel locator Line non-contact wheel alignment) calibration.

2. References

This specification references the following documents.

GB/T 3730.3 vehicles and trailers of terms and their definitions vehicle size JT/T 505 wheel alignment for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 Terms

3.1 Single wheel toe angle individual wheel toe-in the angle between the plane of rotation of the wheels of the vehicle longitudinal axis, the front edge of the wheel inward positive, negative outwardly.

3.2 Camber

Wheel rotation angle between the plane and the vertical line, the wheel rotation on a flat surface edge outwardly positive, negative inwards.

3.3 Caster

Front wheel steering axis angle between the longitudinal vertical projection line car surface

and a vertical line, the upper end of the steering axis is back Positive and negative forward.

3.4 Kingpin Inclination Front-wheel steering angle axis transverse vertical projection line car surface and the vertical line, the upper end of the steering axis is inward Positive and negative outward.

4 Overview

Four Locator is the instrument used to detect vehicle wheel alignment parameters, the main form. four-wheel photoelectric sensor Locator, 3D image-based wheel alignment apparatus and online non-contact wheel alignment. Instruments such shape and structure, respectively

Figure 1, Figure 2 and Figure 3.