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

JJG 907-2006

Replacing JJG 907-2003

**Verification Regulation of Automatic Instruments for Weighing
Road Vehicles in Motion
(English Translation)**

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Table of Contents

1	Scope (10)
2	Citations (10)
3	Terms and units of measurement (10)
3.1	Terminology (10)
3.2	Unit of measurement (10)
4	Overview (10)
4.1	Static Weighing (10)
4.2	Not applicable scales (10)
5	Metrological performance requirements (11)
5.1	Accuracy level (11)
5.2	Maximum allowable error of dynamic test (11)
5.3	Maximum allowable error of static test (13)
5.4	Graduation value (d) (13)
5.5	Minimum weighing (Min) (14)
5.6	Installation and testing of dynamic truck scales (14)
5.7	Consistency of pointing device and printing device (14)
5.8	Impact Quantity (14)
5.9	Static Weighing Scale (15)
5.10	Operating speed (15)
6	General technical requirements (15)
6.1	Applicability (15)
6.2	Operational Safety (15)
6.3	Zero device (16)
6.4	Integrated Control Scale (16)
6.5	Indicating device and printing device (16)
6.6	Installation (18)
6.7	Sealing device (18)
6.8	Descriptive signs (18)
6.9	Verification mark (19)
7	Requirements for electronic weighing instruments (20)
7.1	General requirements (20)
7.2	Applicability (20)

7.3 Functional requirements	(20)
7.4 Inspection and Testing	(21)
8 Measuring instrument control	(22)
8.1 Type Evaluation	(22)
8.2 First verification, subsequent verification and inspection in use	(27)
Appendix A Calibration page, verification certificate and verification result notice page format	(36)
Appendix B Test Procedure for Type Evaluation (Formification Identification)	(42)
Appendix C Practical Guidance for Dynamic Truck Scale Installation	(71)
Appendix D General Requirements for Installation and Operation of Dynamic Truck Scales	(72)

8.2 First verification, subsequent verification and inspection in use (27)

Appendix A Calibration page, verification certificate and verification result notice page format (36)

Appendix B Test Procedure for Type Evaluation (Formification Identification) (42)

Appendix C Practical Guidance for Dynamic Truck Scale Installation (71)

Appendix D General Requirements for Installation and Operation of Dynamic Truck Scales (72)

the term

(nouns and definitions) Terms used in this Protocol and the International Standards of Basic Vocabulary and General Terms (VIM-1993 Edition), the Systematic Vocabulary (VIML-2000 Edition) is consistent. In addition, this procedure also uses the following only applicable to this procedure.

Special terms and definitions.

T.1 general definition generaldefinitions T.1.1 mass mass A physical quantity that is based on kilograms.

T.1.2 weight

The weight of an object is the result of gravity acting on the object, so the weight is the same as the force.

The amount. It can also be called gravity, and its size is the product of the mass of the object and the gravitational acceleration of the object.

ie. $W=mg$

Where. W---weight; m---mass; g---gravity acceleration.

T.1.3 load load

Due to the action of gravity, the object, vehicle, bulk material, etc., which exert force on the loader or the ground of the scale, it also directly refers to their force.

T.1.4 Weighing the measurement of the mass of the object (the total mass of the vehicle or the part of the vehicle) is also called weighing.

T.1.5 Weighing instrumentation A measuring instrument that determines the mass of an object by gravity acting on the object.

Scales can also be used to determine other quantities, sizes, parameters, or characteristics of the mass function.

According to its operation, the scale can be divided into automatic weighing instruments and non-automatic weighing instruments.

T.1.6 automatic weighing instrument an instrument that automatically weighs in accordance with a predetermined processing procedure without operator intervention during the weighing process.

T.1.7 Dynamic road vehicle automatic weighing instrument
automaticinstrumentsforweighingroadvehiclesinmotion with the carrier and including the approach road, the total mass of the vehicle is determined by weighing the moving vehicle and (or) an automatic weighing instrument for vehicle axle loads. Dynamic road vehicle automatic weighing instrument is referred to as dynamic truck scale. Dynamic car the balance includes dynamic truck scales for weighing the vehicle and dynamic truck scales for axle weighing (dynamic axle balance).

T.1.7.1 Dynamic weighing of vehicle weighing weighinginstrumentsforatotalvehicleinmotion
A dynamic truck scale that determines the total weight of the vehicle in a vehicle weighing manner.

T.1.7.2 Dynamic axis balance weighinginstrumentsforaxlesofvehicleinmotion Weigh each axis (or group of axes) of the moving vehicle separately and automatically accumulate the weighing knot of the shaft (or shaft group) A dynamic truck scale that captures the total weight of the vehicle and the axle (or shaft group) load.

T.1.8 control instrument Standard measuring instrument for determining the total mass of a reference vehicle, or static reference to a single-axis load.

In dynamic testing, the control instrument that provides the reference value can be.

- Another independent weighing instrument separate from the instrument being measured, called a separate control weighing instrument;
- If the instrument under test has a static weighing mode, the instrument to be measured

can also be used as a control instrument, called integrated control.

Weighing machine.

T.1.9 metrology authority the legally authorized technical institutions and verification agencies authorized by the state, or can clearly determine whether the scales comply with these regulations.

Responsible manufacturers who are required by the process and approved.

T.2 structure construction Note. In this procedure, the term "device" refers to any component that performs one or more specific functions in some way.

T.2.1 Weighing control area controlledweighingarea Dynamic truck scales are used for specific locations of weighing operations that meet the installation requirements of Appendix C of this Code.

T.2.2 Weighing zone weighzone the weighing zone consists of a carrier and an approach.

T.2.2.1 Approach road apron the approach road is part of the weighing zone, but not the carrier, but is located at both ends of the carrier.

T.2.3 carrier loadreceptor it is part of the weighing zone and is used in dynamic truck scales to accept components that are weighed. When applied or unloaded on it the balance of the dynamic truck scale changes with the load.

T.2.3.1 Single load carrier singleloadreceptor Weighing carriers can be weighed as follows.

--- A carrier that can simultaneously bear all the wheels on a vehicle and weigh the entire vehicle;

--- A carrier that can simultaneously bear all the wheels on the axle set of the vehicle and locally weigh the axle or axle set;

--- A carrier that can simultaneously bear all the wheels on the single axis of the vehicle and locally weigh the shaft;

--- A wheel that can support the wheels at both ends of the vehicle shaft and locally weigh the shaft.

T.2.3.2 Multi-load carrier multipleloadreceptors Install a row of multiple carriers at a certain distance in the direction of travel of the vehicle to complete the wheel load on all axles Weigh the car, or repeat the weighing in the order.

T.2.4 load transfer device load-transmittingdevice the force generated by the load acting on the carrier is transmitted to the components of the load measuring device.

T.2.5 load measuring device Balancer (for balancing the force transmitted by the load transfer device) and indicating device or printing Device, a component used to measure the mass of a load.