

<b>Field Inspection Manual</b>	<b>Part: 2 - IPO</b>	<b>Section: 11</b>	<b>Page: 1 of 3</b>
<b>Non Automatic Weighing Devices</b>	<b>Issued: 2004-11-26</b>	<b>Revision Number: 1</b>	

**TYPE 9.10, 9.20, 9.30, 9.40      VEHICLE SCALES**

**APPLICATION**

Electronic or mechanical permanent or portable vehicle scales

**EQUIPMENT**

Inspector's weight kit, local standards in sufficient number and capacity, and material for strain tests.

**USE**

Device is approved for trade use ..... NoA, Act Section 8  
 Device is suitable for the actual use ..... STP-1  
 Device has been initially inspected (if applicable) and bears the initial verification marks ..... R.29  
 Device is sealed ..... NoA, STP-4

**VISUAL EXAMINATION - INSTALLATION AND LOCATION ..... STP-7**

Device is installed in accordance with restrictions and conditions listed in the notice of approval and in accordance with manufacturer's instructions  
 Device is adequately supported and properly levelled  
 Device indicating and load receiving elements are positioned for customer's view (if applicable), or a secondary indicator is provided  
 Load receiving element can be observed from indicator's normal reading position  
 Installation provide access to understructure of main elements (Pit entrance)  
 Installation of load cells, levers are adequate  
 Clearance around load receptor  
 Device is adequately protected  
 Approach and departure ends meet requirements  
 Local standards and test equipment can be brought to the device and used for inspection

**VISUAL EXAMINATION - MARKING ..... STP-3**

Device is marked with the required information  
 Marking is located as required  
 Marking is permanent (if applicable)  
 Marking plate is permanently attached to the device

<b>Field Inspection Manual</b>	Part: <b>2 - IPO</b>	Section: <b>11</b>	Page: <b>2 of 3</b>
<b>Non Automatic Weighing Devices</b>	Issued: <b>2004-11-26</b>	Revision Number: <b>1</b>	

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**VISUAL EXAMINATION - INDICATING ELEMENT ..... STP-5**

(Electronic)

Display Test (Segment)

Indicated and recorded values are adequately defined

Defining words and symbols for annunciators (Tare Entered, Gross and Net Weight, Center-of-Zero) are readable

(Mechanical)

Scale marks, pointers and poise are in good condition

Defining words and symbols are readable

Zero setting material is enclosed and secured

Balancing ball is in good condition and secured in place

Poise adjusting material is enclosed and held firmly in position

**VISUAL EXAMINATION - RECORDING ELEMENT (PRINTER) ..... STP-6**

Device prints the required values

Printed values are adequately defined

**DEVICE CONFIGURATION (ELECTRONIC)**

Device configured as prescribed by the NOA ..... STP-2

Zero Setting Mechanism Range ( 4% of Max or more) ..... STP-8

\*Initial Zero Setting Mechanism Range (20% of Max or more)

AZTM Maximum Range (0.6 e)

\*Manual Entries of Gross Weights ..... STP-9

\*Sleep Mode Test ..... STP-10

Tare (Platter, Keyboard, and Pre-programmed Tare Entry) ..... STP-11

Free Floating Weight Signal ..... STP-12

**PERFORMANCE**

Load Discrimination Test (Near Zero) ..... STP-14

Increasing Test (Strain Test) ..... STP-13

Eccentricity Test ..... STP-15

Load Discrimination (Max) ..... STP-14

Agreement of Registration ..... STP-17

Display Blanking Tests (Zero, Tare) ..... STP-18

Decreasing and Return-to-Zero Test ..... STP-13

Repeatability Test ..... STP-16

Motion Detection Test ..... STP-19

Mathematical Concordance of Tare, Net and Gross Weight ..... STP-21

Disturbance Test (Electromagnetic Interference and Radio Frequency Interference, Vibrations) .. STP-23

**NOTE:** Tests marked with the star \* are performed at the initial inspection only.

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**WEIGH-IN/WEIGH-OUT SYSTEMS** ..... STP-24

**MULTI-DECK WEIGHING SYSTEMS** ..... STP-26

**UNATTENDED VEHICLE SCALES** ..... STP-25

**REVISION**

Rev.1 added device types 9.30 & 9.40 (Nov 2004)