

# Right Weigh Load Scales

## Right Weigh Digital Load Scale

Model 201-EDG-01(B)



## Installation and Operation Manual

Please read carefully before installation



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## **1.0 Product Specifications**

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Operating Temperature: -40° C to +85° C (-40° F to +185° F)

Storage Temperature: -40° C to +85° C (-40° F to +185° F)

Power Supply: 9 V DC to 32 V DC

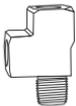
Units: Pounds (LBS) or Kilograms (KG)

Housing: High impact polycarbonate blend

Display: 0.8" LCD sunlight readable

## 2.0 Additional Parts Needed for Installation:

Fittings:



**Street Tee:** The thread size and type should match the thread size and type of the vehicle suspension.



**Standard Air line Fitting for 1/4 Inch Tubing:** The thread size and type should match the thread size and type of the street tee fitting.

Nylon Tubing:

**Standard 1/4 Inch Nylon Tubing:** The amount of tubing needed depends on the mounting location of the Right Weigh digital gauge.

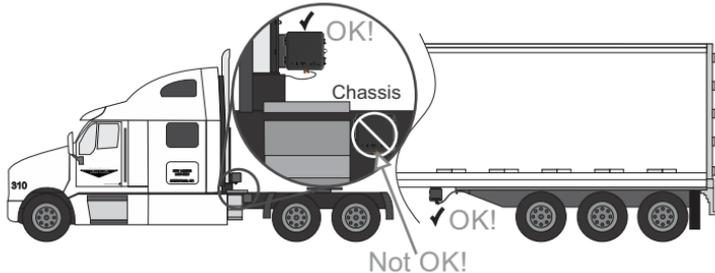
**2.1 Optional Installation Kit Available (P/N 201-SK):** To help make your installation of the Right Weigh digital gauge quick and easy, we offer an installation kit that includes all of the parts required for a typical installation. The installation kit is sold separately, and includes the following parts:

- 30 feet of 1/4 inch air line
- Calibration log sticker
- 3/8 inch NPT street tee fitting
- 3/8 inch to 1/4 inch NPT Bushing
- 1/4 inch NPT street tee fitting
- 1/4 inch tube to 1/4 inch NPT compression fitting
- Heat shrink wire connectors
- 25 feet of power line
- Wire ties

### 3.0 Installation Instructions:

**Step 1:** Mount the Right Weigh digital gauge in a location on the vehicle that is easily accessible and safe from damage (posts, forklifts, tire caps, etc.). Protective box and mounting bracket are provided with model 201-EDG-01B.

**Attention:** DO NOT mount the gauge directly to the chassis or any other main beam unless it is approved by the vehicle manufacturer. Doing so may void the warranty with the vehicle manufacturer.

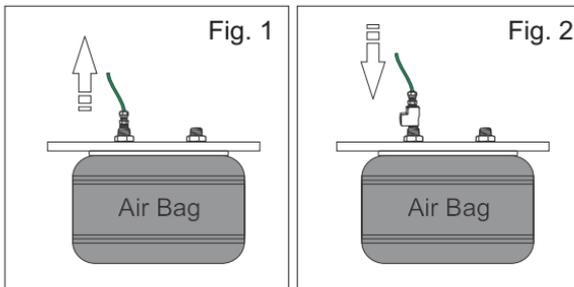


**Step 2:** Dump the air from the suspension system.

**Step 3:** Locate and remove the suspension air line fitting from the top of one of the air bags connected to the height control valve. (Fig. 1)

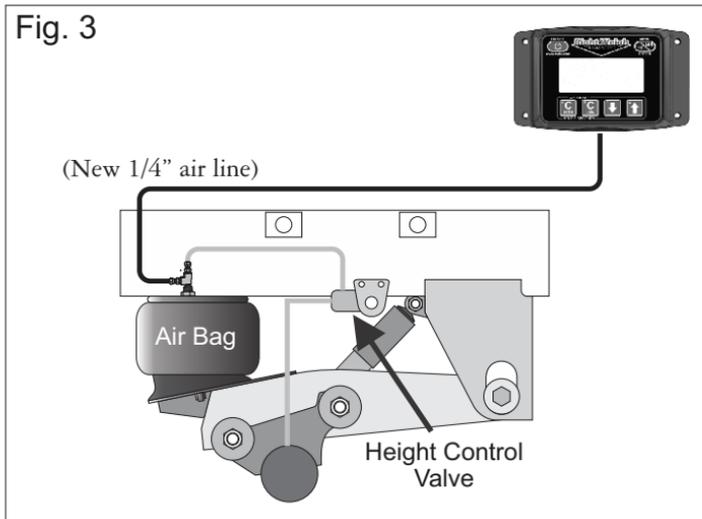
**Step 4:** Insert a street tee fitting into the top of the air bag. The street tee fitting should match the thread size and type of the vehicle suspension.

**Step 5:** Reattach the suspension air line fitting into the top of the street tee. (Fig. 2)



## Installation Instructions (cont.):

**Step 6:** Run a new 1/4" air line from the street tee fitting to the mounting location of the Right Weigh digital gauge. (Fig. 3)



**Step 7:** Air-up the suspension system and check all fitting connections for air leaks.

**Step 8:** Connect the red power and black ground wires to a power and ground source that provides a consistent voltage between 9 VDC and 32 VDC.

**Note:** The Right Weigh digital gauge has an internal fuse. An external fuse is not needed.

## 4.0 Calibration Instructions:

### 1) Enter Empty Weight

**Step 1:** Using a certified in-ground scale, obtain an EMPTY weight for the axle group attached to the Right Weigh digital gauge.

**Step 2:** While the vehicle is still empty, park on a level surface, shift the transmission to neutral, and set the parking brakes.

**Step 3:** Chock the wheels to prevent unexpected vehicle movement, then release the parking and service brakes.

**Step 4:** Make sure the Height Control Valve (HCV) has fully inflated the air bags. If needed, briefly dump the air from the suspension and allow the HCV to refill the system. (This may take several minutes depending on the type of HCV.)

**Step 5:** Press and hold the  button for 3 seconds until the words “CAL LOW” appear.

**Step 6:** Using the   arrow buttons, adjust the Right Weigh digital gauge until it matches the certified EMPTY weight from the in-ground scale.

**Step 7:** Press and hold the  button for 3 seconds until the words “CAL LOW” disappear.

## Calibration Instructions (cont.):

### 2) Enter Loaded Weight

**Step 1:** Using a certified in-ground scale, obtain a LOADED weight for the axle group attached to the Right Weigh digital gauge. For best results, weigh a load that is near the legal weight limit for the axle group.

**Step 2:** While the vehicle is still loaded with the same load, park on a level surface, shift the transmission to neutral, and set the parking brakes.

**Step 3:** Chock the wheels to prevent unexpected vehicle movement, then release the parking and service brakes.

**Step 4:** Make sure the Height Control Valve (HCV) has fully inflated the air bags. If needed, briefly dump the air from the suspension and allow the HCV to refill the system. (This may take several minutes depending on the type of HCV.)

**Step 5:** Press and hold the  button for 3 seconds until the words “CAL HI” appear.

**Step 6:** Using the   arrow buttons, adjust the Right Weigh digital gauge until it matches the certified LOADED weight.

**Step 7:** Press and hold the  button for 3 seconds until the words “CAL HI” disappear. The Right Weigh digital gauge is now calibrated and ready to use.

## 5.0 Operating Instructions:

**Step 1:** Park on a level surface, shift the transmission to neutral, and set the parking brakes.

**Step 2:** Chock the wheels to prevent unexpected vehicle movement.

**Step 3:** Release the parking and service brakes.

**Step 4:** Make sure the Height Control Valve (HCV) has fully inflated the air bags to the factory ride height. If needed, briefly dump the air from the suspension and allow the HCV to refill the system. (This may take several minutes depending on the type of HCV.)

**Step 5:** Press the  button to turn the Right Weigh digital gauge on.

**Step 6:** Adjust the trailer suspension or the load itself until the Right Weigh digital gauge displays a weight value below your legal limit.

**Step 7:** Press the  button to turn the Right Weigh digital gauge off.

**Note:** The gauge will turn itself off after 30 minutes.

**Note:** To change the display units from LBS to KG, press the blue information button, and follow the instructions.



## 6.0 Troubleshooting:

Erratic or inaccurate readings could result from the following:

- The vehicle is NOT parked on a level surface; parking on a sloped or banked surface will cause the vehicle weight distribution to shift between the axle groups.
- The vehicle's brakes are on; when the vehicle's brakes are set, they could potentially apply additional pressure or torque on the suspension air bags.
- The vehicle is parked on an uneven or rough surface; if one or more of the vehicle's wheels is offset from the others, this could result in additional pressure or torque on the suspension air bags.
- The Height Control Valve (HCV) is malfunctioning and/or broken; to test for a problem with the HCV, follow steps 1 through 5 of the operating instructions (the trailer should be loaded). Write down the weight reading from the gauge. Drive the vehicle around the block and return to the same location. Follow steps 1 through 5 of the operating instructions again to get a second reading for the same load. If the two readings are significantly different then the HCV might be malfunctioning and/or broken.

For additional support:

Australia and New Zealand:  
Smart Truck Solutions  
Tel: 0418 622840

United States, Canada and All Other Countries:  
Right Weigh, Inc.  
Tel: (888) 818-2058  
[www.rwls.com](http://www.rwls.com)

## 7.0 Warranty and Returns

Right Weigh is committed to providing quality products that function as intended, and we always stand behind our workmanship. Products manufactured or sold by Right Weigh, Inc. are to be free from significant deviations in material and workmanship for 3 years from the date of purchase. During this time, and within the boundaries set forth in this warranty statement, Right Weigh, Inc. will, at its sole discretion, correct the product problem or replace the product.

This warranty shall not apply to product problems resulting from: (1) Improper application, installation, incorrect wiring, or operation outside of the approved specifications of the product. (2) Accidents, faulty suspension parts or power surges. (3) Inadequate maintenance or preparation by the buyer or user. (4) Abuse, misuse, or unauthorized modification. (5) Acts of God; lightning strike, floods, fire, earthquake, etc.

Right Weigh, Inc. assumes no responsibility or liability for any loss or damages resulting from use of Right Weigh, Inc. products.

In no event shall Right Weigh, Inc. be liable for direct, indirect, special, incidental or consequential damages (including loss of profits or loss of time) resulting from the performance of a Right Weigh, Inc. product. In all cases, Right Weigh, Inc. liability will be limited to the original cost of the product in question. Right Weigh, Inc. reserves the right to make improvements in design, construction, and appearance of products without notice. Right Weigh, Inc. may at its sole discretion discontinue support, warranty, or repair of products which it deems are obsolete or for which repair parts are no longer available. No employee or agent of Right Weigh, Inc. has the authority to modify the terms of this warranty in any manner whatsoever without the express written permission of Right Weigh, Inc.

## **Return Policy and Authorization**

Before returning any product, please obtain a Return Merchandise Authorization number (RMA#) by calling Customer Service at 888-818-2058 or e-mailing [rwls@rwls.com](mailto:rwls@rwls.com). Include the RMA# and information regarding the reason for the return with the returned product. Shipping costs for returns must be prepaid by the customer. For your protection, items must be carefully packed to prevent damage in shipment and insured against possible damage or loss. Right Weigh, Inc. will not be responsible for damage resulting from careless or insufficient packing or loss in transit.

An RMA# must be obtained by the original purchaser before any product can be returned. Only new, unused products may be returned. Installed, used, damaged, modified or customized products can not be returned for credit. Credit will be issued to the original purchaser after evaluation by Right Weigh, Inc.

## **Repairs/Replacements**

An RMA# must be obtained before any product can be returned. Right Weigh, Inc. will evaluate returned products at no charge. If Right Weigh, Inc. determines that the returned product is under warranty it will repair the product or parts thereof at no charge, or if unrepairable, replace it with the same or functionally equivalent product whenever possible. Right Weigh, Inc. will return the product at its expense via a shipping method (carrier to be at sole discretion of Right Weigh, Inc.) equal to or faster than the method used by the customer. Products or parts thereof not covered by warranty will be repaired or replaced at customer expense upon authorization by the customer. Right Weigh, Inc. will return the repaired product at customer expense via a shipping method (carrier to be at sole discretion of Right Weigh, Inc.) equal to or faster than the method used by the customer.



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