

SMARTWEIGH

INTELLIGENT VEHICLE WEIGHING

Installation & Operation Manual



ONBOARD LOAD SCALE
EXTERIOR DIGITAL | SPRING SUSPENSION



WELCOME

Thank you for choosing to drive more and scale less! Here at SmartWeigh, we are committed to making our products simple to install and easy to use. We understand that installation can vary between vehicles and yours may not be described in this manual. In any event, our technical support team is ready to answer your questions!



(01603) 485 153 (UK)



support@smart-weigh.co.uk



www.smart-weigh.co.uk

IMPORTANT!

Please read instructions **COMPLETELY** and thoroughly before installation. SmartWeigh is not responsible or liable for any negative consequences as a result of improper installation or operation including, but not limited to, product failure or damage that could affect the integrity of the vehicle.

The installation steps in this manual are for the sole use of trained installers. SmartWeigh accepts no responsibility or liability for issues involving, but not limited to, incorrect installation that occur from misinterpretation of the steps outlined in this document.

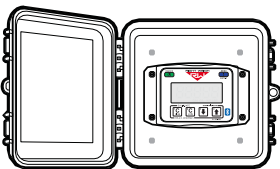
It is the end user's responsibility to be aware of vehicle manufacturer policies before making modifications to the vehicle. SmartWeigh is not liable or responsible for issues regarding, but not limited to, warranties with other manufacturers. This is the responsibility of the end user.

For a more detailed explanation of the the warranty and liability of SmartWeigh please refer to the "Warranty Statement" and "Return Policy & Repairs" section of this document and www.smart-weigh.co.uk/warranty.

FOLLOW US!



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ONBOARD LOAD SCALE
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SPECIFICATIONS & OVERVIEW

SmartWeigh Load Scales App:

download the "SmartWeigh Load Scales" App directly from the App store

Technical Specifications:

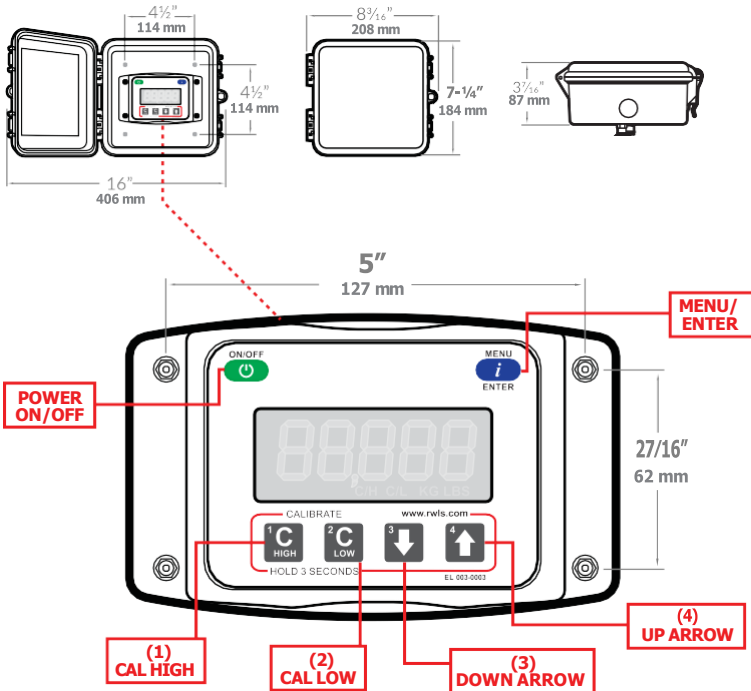
Operating Temperature: -22° F to +185° F (-30° C to +85° C)

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

Power Requirement: 9 VDC to 32 VDC (Switched)

Units: Pounds (LBS) or Kilograms (KG)

Housing: High impact polycarbonate blend Display: 0.8" LCD sunlight readable



SCALE INSTALLATION & ELECTRICAL CONNECTIONS

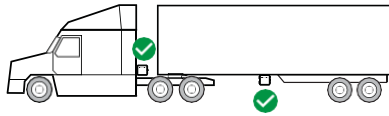
1 INSTALL STRAIN SENSOR(S)

Follow the steps on the 218-SK or 221-SK Installation manual to install all strain sensors onto the vehicle.

2 CHOOSE LOCATION

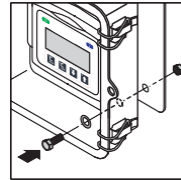
The 201 series scale is designed to be mounted on the outside of a truck or trailer, however it must still be mounted in a protective enclosure. A protective box and mounting bracket are included with the 201 series scale.

Be sure to choose a location that is easily accessible and safe from potential damage (forklift posts, tire caps, etc.)



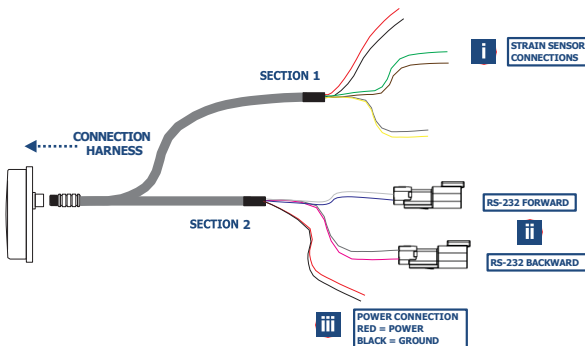
DO NOT mount the scale directly to the chassis or any other main beam unless it is approved by the vehicle manufacturer. Doing so may void the warranty with the vehicle manufacturer.

Mount the bracket in the chosen location and install the gauge box to the bracket using supplied hardware.



Make sure to use **BOTH** supplied mounting bolts to secure the bracket to the vehicle. Using only one bolt can result in a cracked bracket and the scale falling off the vehicle.

3 INSTALL CONNECTION HARNESS



Insert the threaded male connector on the harness onto the female connector on the back of the scale. Make sure to orient the connector properly so that the small cutout on both connectors line up. Once the connector has been pressed in, thread the collar into the scale until it is hand tight.

SCALE INSTALLATION & ELECTRICAL CONNECTIONS

i STRAIN SENSOR CONNECTIONS

On section 1 of the Connection Harness (labeled on image above), there are 3 pairs of wires for 3 different strain sensor connections (check wire labels to distinguish between strain sensor A, B, and C). Use the butt connectors in the strain sensor installation kit to connect strain sensor A wires to strain sensor A on the vehicle. The polarity of the strain sensor wire connections is not important. Refer to installation overview to identify which sensor is sensor A.

Complete connection for strain sensors B and C, if applicable.

Make sure all electrical connections are properly insulated, please see Appendix B for additional instructions.

ii RS-232 FORWARD & BACKWARD CONNECTION (OPTIONAL)

This connection is for RS-232 communication (use is optional). Use the RS-232 connectors to connect the gauge to a telematics device that supports RS-232 communication. For more information about this feature, please contact SmartWeigh technical support listed on page 2.

iii POWER CONNECTION

The two unterminated wires coming out of section 2 of the harness are used to power the scale. Connect the **RED** wire to a switched positive (+) power source and the **BLACK** wire to chassis ground (-). The required supply voltage must be between 9 and 32 volts DC. For more information on wiring connection and insulation, see Appendix A.



DO NOT connect directly to a battery or any constant power source, gauge should be connected to a switched source so that it can be disconnected from power when not in use. Most users connect the power to vehicle marker lights or the AUX/ABS wire.

Electrical connections **MUST** be insulated, see Appendix A for instructions.

4 SET NUMBER OF CONNECTED STRAIN SENSORS

Once the gauge is connected to power, it will automatically turn on and display "bAr -" on the screen. Set the gauge to the number of strain sensors that are connected to the gauge using the UP arrow button:

- bAr 0 = 0 strain sensors
- bAr 1 = 1 strain sensor
- bAr 2 = 2 strain sensors
- bAr 3 = 3 strain sensors



If you need to change the number of strain sensors at any point, follow these steps:

1. Turn off the scale
2. Press and hold the C HIGH button and the MENU button, press the POWER button, then release all 3
3. Use the UP arrow button to change the number of strain sensors to the number desired
4. Turn off the scale to save setting

Please note that by changing the number of strain sensors the scale recognizes, all calibration data will be LOST



POWER

Turn the scale on and off to view axle group weights.

WEIGHT

Weight of the selected axle group.

AXLE GROUP INDICATOR

Indicates which axle group is being displayed. No indicator mean the gross weight is being displayed and a flashing indicator means the remote sensor weight is being displayed.

CALIBRATE

Press and hold C HIGH (while loaded) or C LOW (while empty) for 3 seconds to enable calibration (allows the weight number to be adjusted by using the arrow buttons), press the button again to save and exit calibration.

CALIBRATION INDICATORS

These indicate that calibration is enabled and that the weight can be adjusted using the arrow buttons. C/L indicates calibrate low enabled and C/H indicated calibrate high enabled.

MENU / ENTER

Press this button to switch between axle groups being displayed.

UNITS

Units are displayed in either pounds (lbs) or kilograms (kg)

ARROWS

Press these buttons to adjust the weight number up or down when calibration is enabled.

OPERATING MODES

Each vehicle configuration requires a specific operating mode. The modes available on this gauge are:

AVG - Straight Truck, Tractor, or Trailer (One Axle Group)

IdP - Straight Truck, Tractor, or Trailer (Separate Axle Weights)

F1b2 - Trailer with One Front Axle and Two Rear Axles or Straight Truck with Spring Steer and Walking Beam Drive Suspension

See the tables on the following pages to find your vehicle configuration and set the gauge to the corresponding operating mode.



The load scale can only be setup in one operating mode at a time. If the mode is changed, the calibration data will be reset to factory defaults, requiring re-calibration.

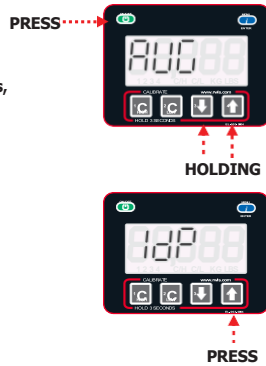
CHANGING OPERATING MODES

1

With the scale OFF, press and hold both the UP and DOWN arrow buttons, and then press the ON/OFF button. Release all 3 buttons. The scale will display the current mode.

2

Press the UP arrow button to cycle through the operating modes. To confirm your selection, turn the scale off by pressing the ON/OFF button.



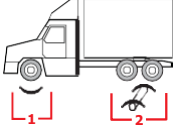

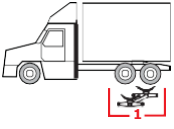

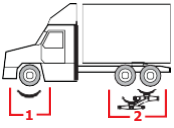

The numbers on the images indicate the axle groups that will be displayed on the gauge. To cycle through the axle group on the gauge, press the MENU button.

WAGON TRAILER

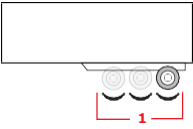

VEHICLE CONFIGURATION		OPERATING MODE
	<p>Axle Group 1 - Spring Suspension Front Axle</p> <p>Axle Group 2 - Spring Suspension Rear Axle</p>	
	<p>Axle Group 1 - Spring Suspension Front Single Axle</p> <p>Axle Group 2 - Spring Suspension Rear Tandem Axles</p>	

OPERATING MODES

STRAIGHT TRUCK

VEHICLE CONFIGURATION	OPERATING MODE
 <p>Axle Group 1 - Spring Suspension Steer Axle</p> <p>Axle Group 2 - <i>Mack Camelback</i> Spring Suspension Rear Tandem Axles</p>	
 <p><i>*DRIVE AXLE GROUP ONLY</i></p> <p>Axle Group 1 - <i>Walking Beam</i> Spring Suspension Rear Tandem Axles</p>	
 <p>Axle Group 1 - Spring Suspension Steer Axle</p> <p>Axle Group 2 - <i>Walking Beam</i> Spring Suspension Rear Tandem Axles</p>	

TRAILER / DOLLY

VEHICLE CONFIGURATION	OPERATING MODE
 <p>Axle Group 1 - Spring Suspension Single, Tandem, or Tri Axle Group</p>	

GAUGE OPERATION

1

Press the ON/OFF button to turn on the scale display. The **PRESS** small numbers at the bottom left of the screen indicate which axle group is currently being displayed. Each number corresponds with an axle group, starting with 1 at the front of the vehicle and incrementing back.



2

Press the MENU button to cycle the display to the next axle group.



3

A solid axle group indicator represents an axle group that is connected directly to the gauge.



4

No visible axle group indicator, following the brief message "GroSS", represents the gross weight screen. This is a sum of all the axle group weights.



SENSOR CHECKING & ADJUSTMENT

At this time, you should have the scale and all strain sensors installed onto the vehicle. Once this is complete, it is time to adjust the strain sensor(s).



Only perform the following checks when the vehicle is empty

HOLDING

1 ENTER DIAGNOSTICS MENU

With the scale turned off, hold down the MENU button and then press the ON/OFF button - release both at the same time. This will display the software version on the scale.

PRESS



2 CHECK SENSOR VALUES

Press the MENU button three times; a four digit number will appear representing the raw output from sensor A.

For applications with multiple sensors, hit the UP ARROW to see the values for sensors B and C.



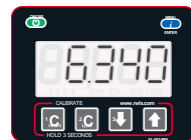
If all sensor value(s) are between 6.500 and 7.500, no adjustment is needed. Move on to step 5

3 ADJUST STRAIN SENSOR

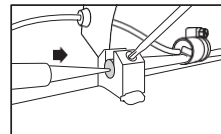
In this example, strain sensor A is out of range and needs to be manually adjusted until it is between 6.500 and 7.500.

i

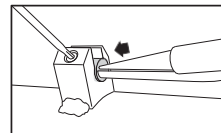
With the gauge displaying the sensor value that needs adjusted, remove the sheet metal cover of the corresponding strain sensor.



LOWER NUMBER



RAISE NUMBER



Pushing inward will lower the number and pushing outward will raise the number

NOTE: It takes a very small amount of force to adjust the sensor

iii

While holding the sensor bar in place, tighten both set screws for the scale to settle on a number. Repeat process until range is within 6.500 and 7.500.



4

REPEAT FOR ADDITIONAL SENSORS

For applications with multiple sensors, hit the UP ARROW and adjust values until all sensors are within the range of 6.500 to 7.500.
For sensors that are out of range, repeat step 3.

5

EXIT DIAGNOSTICS MENU

To exit the diagnostics menu, turn the scale off by pressing the ON/OFF button.

CALIBRATION & UNIT OF MEASURE

CHANGING UNITS

With the gauge on, press and hold the UP ARROW and then press the MENU button. This will toggle the settings between pounds and kilograms.



CALIBRATION

The 201 series load scale must be calibrated both empty and loaded to work properly. The scale associates the weight you enter with the air pressure in the suspension system at the time of calibration. You will need to calibrate once while the vehicle is empty, and again while the vehicle is loaded for each axle group being monitored.



Only enter on-the-ground weight of axle or group being monitored. DO NOT use gross weight, tare weight, etc.

EMPTY CALIBRATION POINT

- 1: While the vehicle is empty, obtain axle group weights from a certified in-ground scale.
- 2: Park on a level surface. Shift the transmission to neutral and set the parking brakes. Chock the wheels to prevent unexpected vehicle movement, then release the parking and service brakes.
 - 3: Press the ON/OFF button to turn on the SmartWeigh load scale.
 - 4: Press the blue MENU button to select the proper axle group or calibration set.
 - 5: Press and hold the C LOW button until the "C/L" symbol appears.
 - 6: Adjust the value using the UP and DOWN arrows so that it matches your scale ticket for the axle group.
 - 7: To save, press and hold the C LOW button until the "C/L" symbol disappears.
- 9: Repeat steps 4-7 for all axle groups or calibration sets.



LOADED CALIBRATION POINT



Repeat "empty calibration point" steps 1-2 with the vehicle fully loaded.



- 3: Press the ON/OFF button to turn on the SmartWeigh load scale.
- 4: Press the blue MENU button to select the proper axle group or calibration set.
- 5: Press and hold the C HIGH button until the "C/H" symbol appears.
- 6: Adjust the value using the UP and DOWN arrows so that it matches your scale ticket for the axle group.
- 7: To save, press and hold the C HIGH button until the "C/H" symbol disappears.
- 9: Repeat steps 4-7 for all axle groups or calibration sets.

RE-CALIBRATION

It is recommended to re-calibrate every 6 months for each axle group being measured.

SECURITY PIN CODE (OPTIONAL)

It is optional to set a security PIN code on the scale. Once a PIN code is set, the feature is enabled and the 5 digit number will be required to gain access to the calibration and operating mode settings.

Once the PIN code feature is enabled, it can be changed but the feature cannot be disabled without resetting the calibration values. If you would like to disable the PIN code feature, please call SmartWeigh Technical Support listed on page 2.

SET PIN CODE



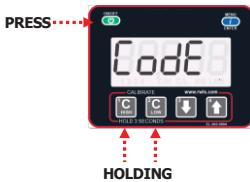
With the gauge off, press and hold both the C LOW and C HIGH buttons, then press the ON/OFF button. Release all three buttons. The gauge will display "CodE".



Press the MENU button and "00000" will display on the screen. Enter a 5 digit PIN code using the 1, 2, 3, and 4 buttons. Press the MENU button again to save the code.

**If the display shows "-----", then there is already a code set.

CHANGE PIN CODE



With the gauge off, press and hold both the C LOW and C HIGH buttons, then press the ON/OFF button. Release all three buttons. The gauge will display "CodE".



Press the MENU button and "-----" will display on the screen. Enter the previous PIN code. If the code entered is correct, the display will show "Good".



Press the MENU button and enter the new 5-digit PIN code using the 1, 2, 3, and 4 buttons. Press the MENU button again to save the code.

Follow these steps while weighing your vehicle:

1: Park on a level surface. Shift the transmission to neutral and set the parking brakes.

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



3: Press the ON/OFF button to turn on the SmartWeigh load scale.

4: Adjust the suspension or the load itself until the SmartWeigh load scale displays a weight value below your legal limit.





























5: Press the blue MENU button to display other axle groups or calibration sets.



6: Press the ON/OFF button to turn off the SmartWeigh load scale.

KEYPAD FUNCTION GLOSSARY

FUNCTION	DESCRIPTION	BUTTON SEQUENCE	
		HOLD	PRESS
Power On / Off	Power the display on or off . Note: Pressing the ON/OFF button while in a configuration menu saves the selection and powers off the display.		
Next Axle Group / Next Screen	Cycles to the next axle group or menu screen.		
Change Units	Press while weight is displayed to change the units from pounds (lb) to kilograms (kg).		
Set Operating Mode	With the display off, use this key sequence to enter the operating mode selection menu. While in this menu, use the UP arrow button to cycle through the available options. See Operating Modes (page 10).	 	
Set Number of Spring Sensors	With the display off, use this key sequence to enter the menu for setting the number of strain (bar) sensors connected to the gauge. While in this menu, use the UP arrow button to cycle through the available options	 	
PIN Code	With the gauge off, use this key sequence to create or change an existing PIN code. See Security PIN Code (page ---).	 	
Diagnostics Menu	With the display off, use this key sequence to enter the diagnostics menu and view diagnostic data for the gauge. See Diagnostics Menu (page xx).		
Set Empty Calibration	While the desired axle group is shown, press and hold the C LOW button until the C/L indicator appears. Use the arrow buttons to adjust the displayed weight to match the actual axle group weight. Press and hold the C LOW button until the C/L indicator disappears to save.		
Set Loaded Calibration	While the desired axle group is shown, press and hold the C HIGH button until the C/H indicator appears. Use the arrow buttons to adjust the displayed weight to match your actual axle group weight. Press and hold the C HIGH button until the C/H indicator disappears to save.		
Adjust Weight Value	While calibration is enabled, adjust the weight value using the UP and DOWN arrows		 OR 
Next Selection	The UP arrow is used to change selections in the menu screens.		
Set Measurement Mode	With the display off, use this sequence to change the measurement mode. DEF (Default) - absolute weight (LBS or KG) PC (Percent) - percent of load (0-100%).	 	
RS232 Configuration Menu	With the display off, use this key sequence to enter the RS232 configuration menu. See RS232 Configuration (page xx).	 	

RS232 CONFIGURATION

RS232 CONFIGURATION MENU

With the gauge off, press and hold the C LOW and DOWN arrow button and press ON/OFF. Release all buttons once the display illuminates.

MESSAGING PROTOCOL

When the display turns on the first screen will contain the messaging protocol setting. Press the UP arrow button to cycle through the available options.

232-1 - default messaging protocol (for details on SmartWeigh R232 default messaging protocol visit [*insert web link*](#) - can you publish this to our site somewhere?)

232-2 - GeoTab messaging protocol

Press the MENU button to cycle through the following screens.

AVERAGING TIME

This screen contains the averaging time setting. Each weight value output over RS232 is generated by taking a rolling average of some duration of weight samples. Averaging time is this duration of time (in seconds) in which weight samples taken to create the rolling average. 60 seconds is the default setting. "A 60"

MESSAGE PERIOD (Output Frequency)

This screen contains the message period (output frequency) setting. The message period setting is the duration of time (in seconds) between messages. 15 seconds is the default setting. "P 15"

PROBLEM	CAUSE	SOLUTION
Erratic / Inaccurate Weight Readings	The vehicle is not parked on a level surface	Park on level concrete ground. Parking on sloped or banked surfaces will cause the vehicle weight distribution to shift between the axle groups. Additionally, if one or more of the vehicle's wheels are in a pothole, that could result in additional pressure or torque on the suspension.
	The vehicle's brakes are on	Release the parking brakes when weighing and/or calibrating. When the vehicle brakes are set, they could apply additional pressure or torque on the suspension air bags. This will cause the suspension to have a different air pressure than what is normally needed to hold up the given weight.
App Won't Connect to the Gauge	Scale is connected to a constant power source	Connect the scale to a switched power source between 9 and 32 VDC (typically either the vehicle marker lights or the AUX/ABS wire). If the gauge is powered too long it can stop transmitting a Bluetooth signal and may need to be disconnected and reconnected to work again.
	Scale is connected to another device	Disconnect the scale from the other device before connecting through your device.
	Phone requires re-set	To reset your phone - close the app, turn off Bluetooth, and wait 10 seconds. Then open the app and turn the Bluetooth back on. Try rescanning for the scale. If this still doesn't work, in some cases it is necessary to restart the phone completely.
Scale Does Not Power On	Scale is not connected to a switched power source of between 9 and 32 VDC	Connect the scale to a switched power source between 9 and 32 VDC (typically either the vehicle marker lights or the AUX/ABS wire). If there is a bad connection in the circuit which causes voltage to drop below 9 volts, the scale will not power on. Test the power source with a voltmeter.
	Scale is connected directly to the battery	Connect the scale to a switched power source between 9 and 32 VDC (typically either the vehicle marker lights or the AUX/ABS wire). The scale is active anytime it is connected to power, even if the display is off. To reset it, disconnect and reconnect to the power source, wait 10 seconds, then try again to turn the display on.
	Polarity is incorrect	Correct the polarity. The red wire must be connected to positive and the black to negative.
Cannot Change Calibration Data	The scale has an active user-defined security PIN code	If the scale is protected with a PIN code, the PIN must be entered before calibration data can be changed. To understand how to reset the PIN code, see page 16. If the PIN code has been forgotten, please call SmartWeigh technical support listed on page 2 for further assistance.
Gauge reading "noAir"	One or more air inputs are not receiving air (If 2 air sensors are set to Average mode and one isn't receiving air, gauge will read noAir message)	Check that all air inputs are receiving air. Pull airline out of air fitting(s) on the back of the gauge. Follow the airline along the vehicle to the airbags to check that it hasn't been pinched or damaged. Dump suspension and refill to ensure air bags are full.
	Lift Axle being measured is in the up position	If an air input is measuring a lift axle on the vehicle and the lift axle is in the up position, the air bags will be deflated of air and the gauge will read the noAir message.

It is very important that all wiring connections be made watertight.

Connections which are not watertight can allow moisture to travel through the individual strands of the wires and make it's way into the scale, causing permanent damage to the electronics.

Heat shrinkable splices are included with the 201 series gauge and sensor installation kits.



Crimp each end of the wire into the connector with a wire crimp tool (tool not provided).

After crimping and heat shrinking



With a heat gun or heat torch, heat the connector until it shrinks completely around each wire end. Make sure you do not burn the wire jacket.

Add heat shrink



After all connections have been made, heat shrink the entire group of splices so that it seals on the outer jacket of both cables.

After heat shrinking



WARRANTY & RETURN POLICY

Warranty Statement

SmartWeigh is committed to providing quality products that function as intended, and we always stand behind our workmanship. Our industry leading warranty is our best effort to express this commitment. Products manufactured or sold by SmartWeigh are warranted to be free from significant defects in material and workmanship 3 years from date of purchase. During this time, and within the boundaries set forth in this warranty statement, SmartWeigh 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.

SmartWeigh assumes no responsibility or liability for any loss or damages resulting from use of SmartWeigh products.

In no event shall SmartWeigh be liable for direct, indirect, special, incidental or consequential damages (including loss of profits or loss of time) resulting from the performance of a SmartWeigh product. In all cases, SmartWeigh liability will be limited to the original cost of the product in question. SmartWeigh reserves the right to make improvements in design, construction, and appearance of products without notice.

Return Policy and Authorization

Before returning any product, please obtain a Return Merchandise Authorization number (RMA#) by calling Customer Service at +44(0)1603 485 153 or e-mailing support@smart-weigh.co.uk. 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. SmartWeigh 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 SmartWeigh.

Repairs/Replacements

An RMA# must be obtained before any product can be returned. SmartWeigh, Inc. will evaluate returned products at no charge. If SmartWeigh 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. SmartWeigh will return the product at its expense via a shipping method (carrier to be at sole discretion of SmartWeigh) 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. SmartWeigh will return the repaired product at customer expense via a shipping method (carrier to be at sole discretion of SmartWeigh.) equal to or faster than the method used by the customer.

THANK YOU FOR YOUR BUSINESS

Thank you for choosing to drive more and scale less! Here at SmartWeigh, we are committed to making our products simple to install and easy to use. We understand that installation can vary between vehicles and yours may not be described in this manual. In any event, our technical support team is ready to answer your questions!



CONTACT US FOR ADDITIONAL SUPPORT



(01603) 485153



support@smart-weigh.co.uk



www.smart-weigh.co.uk

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