

LoadMaxx User Guide



for Tractors with a Hydraulic Lift

Model 5809

Air-Weigh Customer Support: 888-459-3247

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Model Number Note

This guide is intended for use for scales set to model number 5809.

LoadMaxx Tractor Scale Overview

LoadMaxx is a weighing system for vehicles that works by using a hydraulic lift sensor. The sensor measures hydraulic lift pressure changes and converts that number into weight which is displayed in the truck cab. The scale will display the actual on-ground weight for the hydraulic lift axle group.

Scale Display Overview

Before using your Air-Weigh Tractor Scale, you will need to calibrate it.

Below is a definition of the use of each button. The function and use of these buttons remain the same throughout all operations of the scale.



Customer Support

If you cannot correct a problem, or you suspect you have a malfunctioning part, please contact Air-Weigh Customer Support at (888) 459-3247, Monday through Friday, 7 AM–5 PM Pacific Time.

From outside the US and Canada, please call (541) 343-7884.

Navigating the Scale Menu

To illuminate the display: press any key one time.

To go back: push the **ESC** key to revert to the previous screen. Any unsaved changes will be erased if you press **ESC**

To select a menu item: use the up or down arrow keys ▲ or ▼ to highlight your chosen menu item. The item will blink when it is highlighted. Choose **ENTER** to select the blinking item

To save a change: Press the **ENTER** key

To enter a numeric value: use the up or down arrow keys ▲ or ▼ to select the correct number. Press **ENTER** to save your value.

Main menu: Throughout this manual, the term “Main Menu” refers to the top menu. This menu shows **VIEW WEIGHTS, ALARMS, PRINT, SETUP**

Calibration

For the best calibration results, the tractor and trailer should be:

- Parked on level ground
- Tractor brakes released
- Engine running
- Raise the 5th wheel plate 1.5" off of the stoppers for HEAVY weight

Once the LoadMaxx Tractor Scale is calibrated, it is not necessary to re-calibrate unless the suspension or hydraulic lift system characteristics change.

Assigning a PIN number during the system set-up process will protect the calibration procedure from tampering. Normally a PIN number is not assigned until AFTER the scale has been calibrated. Air-Weigh Trailer Scales also have a PIN lock-out to prevent tampering when the trailer is parked, however any Air-Weigh equipped tractor will still have access to the Trailer Scale's calibration function through the in-cab truck scale.

Preliminary Considerations

The accuracy of the LoadMaxx Tractor Scale depends on the accuracy of the certified scale used to calibrate or check-weight. Ensure that the in-ground scale is reliable, recently certified and in good repair. It is preferable to obtain all weight tickets from the same certified scale. Segmented scales, those that provide individual axle group weights, are preferred. When segmented scales are not available, take extra precaution in calculating weights.

Calibrating The Tractor Scale Overview

The order of calibration is not important; however, both EMPTY and HEAVY weights must be properly entered before the weight display is accurate. When calibrating, the EMPTY weights must be entered while the vehicle is empty, and the HEAVY weights must be entered while the vehicle is fully loaded. Failure to calibrate scales when vehicle is actually empty and when it has a true heavy load will result in inaccurate weights.

Calibrating Empty Weights

Leave the 5th wheel plate at the lowest position on stoppers.

1. Press **ESC** one or more times until the Main Menu appears, with **VIEW WEIGHTS** blinking
2. Select **PRINT,SETUP**
3. Select **SYSTEM SETUP**
4. Select **CALIBRATION**
5. Select **MANUAL CALIBRATION**
6. Select **EMPTY WEIGHT**
7. The screen pauses for three seconds with the display, "**ENTER EMPTY – VEHICLE MUST BE EMPTY**" before proceeding automatically to the next menu
8. On the PICK AXL menu, select **DRV** (Drive) for the hydraulic lift
If PIN is needed for access, enter it at this time
9. Using the up/down arrows **▲** or **▼**, **enter 20lbs.** for your EMPTY weight and press **ENTER**. The screen will briefly show **Accepted** to indicate its acceptance of the Empty Weight



Calibrating Heavy Weights

Use a certified scale to get your drive suspension weight. Make sure the trailer is fully loaded and that the 5th wheel plate is 1.5" off the stoppers when you enter the weight data.

1. Using the same steps you did in entering your Empty weights, navigate to the **HEAVY WEIGHT** screen
2. On the PICK AXL menu, select **DRV** (Drive) for the hydraulic lift
3. Using the up/down arrows ▲ or ▼ **enter your fully loaded weight obtained from a certified scale** for your HEAVY weight and press **ENTER**. The screen will briefly show Accepted to indicate its acceptance of the Empty Weight



Operations

Once calibrated, your Air-Weigh LoadMaxx Tractor Scale is ready to display weights in 20lb (20kg) increments. Continued accuracy is established by following a few simple rules before taking weight readings:

1. Park the tractor and trailer on a level surface
2. If equipped with a trailer dump valve, release trailer brakes and dump air in trailer suspension for 5 – 10 seconds, then re-inflate to factory-specified ride height.
3. Accurate weight is displayed when numbers stop blinking.
4. Ensure the 5th wheel plate is 1.5" above stoppers at same position as when it was calibrated.

Scale Settings

Languages

The LoadMaxx offers a choice of language:

1. Press **ESC** one or more times until the Main Menu appears, with **VIEW WEIGHTS** blinking
2. Select **PRINT,SETUP**
3. Select **SYSTEM SETUP**
4. Select **SYS CONFIG**
5. Select **LANGUAGE**
6. Use the **▲** or **▼** buttons to select a language and press **ENTER**

Display Backlight and Set-Up

Like other gauges, the scale display is “key-on” powered, so it is always operating. Pressing any key will automatically turn on the display backlight. The display screen will automatically drop into its programmed “sleep mode” with the backlight turns off after one to 30-minutes from the last keystroke operation. The factory-set default time is 5 minutes.

To change the amount of time the display is lit:

1. Press **ESC** one or more times until the Main Menu appears, with **VIEW WEIGHTS** blinking
2. Select **PRINT,SETUP**
3. Select **SYSTEM SETUP**
4. Select **SYS CONFIG**
5. Select **DISPLY SETUP**
6. Select **BACKLIGHT**
7. Press the **▲** or **▼** buttons to select time period and press **ENTER**

This backlight will automatically dim to the “sleep mode” after the selected operation time period. To turn on the backlight, press any button.

Large Character Display

The Air-Weigh LoadMaxx Tractor Scale can display weights on either three lines or two lines.

Only the Weights Displays can appear as large characters on two lines. On this display, axle group names are represented by their first letters:

S = STEER

D = DRIVE

T = TRAILER (if one semi trailer, or full trailer)

F = FRONT TRAILER (full trailer)

R = REAR TRAILER (full trailer)

G = Gross Vehicle Weight (GVW)

N = Net Payload (NET)

A = TRAILER A (if two trailers)

B = TRAILER B (if two trailers)



All other screens always appear as three lines. To change between two line and three line on the display:

1. Press **ESC** one or more times until the Main Menu appears, with **VIEW WEIGHTS** blinking
2. Select **PRINT,SETUP**
3. Select **SYSTEM SETUP**
4. Select **SYS CONFIG**
5. Select **DISPLY SETUP**
6. Select **WEIGHT SETUP**
7. Select **2 OR 3 LINES**, leading to the next menu. At the bottom of the menu the current choice is shown as (Now 2 LINE) or (Now 3 LINE). At this point you can choose between the two line display with larger characters, or the three line display.
8. Press the **▲** or **▼** buttons to select **2 LINE DISP** or **3 LINE DISP**, and press **ENTER**

Creating a PIN

When the trailer scale PIN is set to 0, the operator will not need to enter a PIN to access the PROGRAM menu functions. Setting a PIN into the LoadMaxx Tractor Scale will eliminate tampering with that scale's CALIBRATION, SCALE TYPE, and PIN settings. After calibration, fleets with both tractor and trailer scales should develop a fleet PIN policy to protect the calibration settings from tampering.

To set a PIN:

1. Select **PRINT,SETUP**
2. Select **SYSTEM SETUP**
3. Select **SYS CONFIG**
4. Select **SET PIN #**
5. Using the up/down arrows ▲ or ▼ scroll to the desired PIN, then press **ENTER**. Press **ESC** repeatedly to return to main menu

The new PIN is now entered into the scale. To change the PIN later, repeat these steps and change the setting. Setting the PIN to zero will reset the scale's PIN to its original status of No PIN Needed.

Note: that once you gain PIN access by entering the PIN correctly, you will retain that access until the scale has a power cycle.

Turning off the guided Instructions - How-To-Weigh

How-To-Weigh instructions are displayed on the tractor scale in rotation with the actual weight screen. To turn off these instructions off:

1. Press **ESC** one or more times until the Main Menu appears, with VIEW WEIGHTS blinking
2. Select **PRINT,SETUP**
3. Select **SYSTEM SETUP**
4. Select **SYS CONFIG**
5. Select **DISPLY SETUP**
6. Select **SHOW / HIDE**
7. Select **SHOW HELP**
8. Select **HIDE HELP** to turn off the How-To-Weigh instructions. Press **ESC** repeatedly to return to the main menu



Alarm Function

The Air-Weigh LoadMaxx Tractor Scale has two 12V-24V 1.0 amp output alarms. To use the alarm feature, attach the gray or brown alarm output wire stemming from the Tractor ComLink harness to a user-supplied alarm. Wires are marked WARN 1 and WARN 2. Route the ground wire/s for the alarm/s to the WARN GROUND wire/s at the Tractor ComLink harness. Alarms will activate when a programmed warning weight or alarm weight limit is reached. The limits activating this feature are set by the user.

Warning weight output is a pulsing voltage, while alarm weight output is continuous voltage.

You can delay the period between each overweight and the subsequent activation of the alarm, by up to sixty seconds. Similarly, you can delay the period between the return to not overweight, and the alarm's deactivation, by up to sixty seconds. These delays can prove useful in moderating alarm responses to weight oscillations, such as those occurring during travel.

Note: Remember, to deactivate and reset an active warning or alarm weight, simply press the ENTER button once while alarms are active, while weights are being displayed. To turn the alarm function completely off, go back to the TURN ON/OFF portion of the ALARMS menu and change the (Now ON) back to a (Now OFF).

Alarm Function Programming Procedure

1. Press **ESC** one or more times until the Main Menu appears, with **VIEW WEIGHTS** blinking.
2. Select **ALARMS**

If **PIN** is needed for access, enter it at this time.

3. Select **SET ALARMS**
4. Select **ALARM 1**
5. Select one of **GVW**, **NET ALM 1**, **TRCTR ALRMS1**, or **TRLER ALRMS1**
6. Depending on the previous step:
 - select from **GVW ALARM** and **NET ALARM**;
 - or from **STEER ALARM** and **DRIVE ALARM**;
 - or from **TRLR WARN 1** and **TRLR ALARM 1**
7. Select **WARN WT 1** or **ALARM WT 1** for the chosen alarm. Using the up/down arrows **▲** or **▼** scroll to the desired warning or alarm weight, then press **ENTER**
8. Press **ESC** as needed to start setting any additional desired alarms. Press **ESC** repeatedly to return to previous menu or the main menu. Repeat this procedure for **ALARM 2** if used.

Turning The Alarm Feature ON or OFF

1. Press **ESC** one or more times until the Main Menu appears, with **VIEW WEIGHTS** blinking
2. Select **ALARMS**

If **PIN** is needed for access, enter it at this time

3. The bottom line gives the state of the alarm feature, "(Now ON)" or "(Now OFF)." Select **TURN ON/OFF** to change this state to its opposite.

Limited Warranty

Air-Weigh warrants (the "Limited Warranty") that the Products will be free from defects in material and workmanship under normal use and service with proper maintenance for the following time periods:

- (a) for new Scale kits, the Limited Warranty period will be 3 years;
- (b) for new parts and accessories sold separately, the Limited Warranty period will be 1 year; and
- (c) for repaired or refurbished items, including repaired or refurbished Scale kits and repaired or refurbished parts and accessories sold separately, the Limited Warranty period will be 90 days.

If any Product is determined to not conform to this Limited Warranty during its applicable Limited Warranty period, Air-Weigh will, at its exclusive option, either repair or replace the Product.

Limitations of Limited Warranty. Air-Weigh will have no obligation under the Limited Warranty with respect to any product if (a) Buyer fails to notify Air-Weigh in writing during the warranty period of a non-conformity, or (b) Buyer or any other person, entity, or governmental authority uses, misuses, or neglects the product in a manner inconsistent with the product's specifications or directions for use or maintenance, modifies the product or improperly installs, handles, or maintains the product.

No Repair or Modification of the products. Except as explicitly authorized or in a separate written agreement with Air-Weigh, Buyer will not service, repair, modify, alter, replace, reverse engineer, or otherwise change any of the products.

Disclaimer of All Other Warranties. EXCEPT FOR THE LIMITED WARRANTIES SET OUT ABOVE, NEITHER AIR-WEIGH NOR ANY PERSON OR ENTITY ON AIR-WEIGH'S BEHALF HAS MADE OR MAKES FOR BUYER'S BENEFIT ANY EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY WHATSOEVER, INCLUDING ANY WARRANTIES OF: (i) MERCHANTABILITY; (ii) FITNESS FOR A PARTICULAR PURPOSE; (iii) TITLE; OR (iv) NON-INFRINGEMENT; WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. BUYER ACKNOWLEDGES THAT IT HAS NOT RELIED ON ANY OTHER REPRESENTATION OR WARRANTY MADE BY AIR-WEIGH, OR ANY OTHER PERSON OR ENTITY ON AIR-WEIGH'S BEHALF.

Limitation of Liability.

IN NO EVENT WILL AIR-WEIGH BE LIABLE FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, PUNITIVE, OR ENHANCED DAMAGES, LOST PROFITS OR REVENUES, OR DIMINUTION IN VALUE, ARISING OUT OF OR RELATING TO ANY BREACH OF THESE TERMS, REGARDLESS OF WHETHER OR NOT THE DAMAGES WERE FORESEEABLE, WHETHER OR NOT AIR-WEIGH WAS ADVISED OF THE POSSIBILITY OF THE DAMAGES, OR THE LEGAL OR EQUITABLE THEORY (CONTRACT, TORT, OR OTHERWISE) ON WHICH THE CLAIM IS BASED.

IN NO CASE WILL AIR-WEIGH'S AGGREGATE LIABILITY ARISING OUT OF OR RELATED TO THESE TERMS, WHETHER ARISING OUT OF OR RELATED TO BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, EXCEED THE TOTAL OF THE AMOUNTS PAID TO AIR-WEIGH FOR THE PRODUCTS.

THE FOREGOING LIMITATIONS APPLY EVEN IF BUYER'S REMEDIES UNDER THESE TERMS FAIL OF THEIR ESSENTIAL PURPOSE.

Procedure For Warranty Claims

ALL customers should first contact Air-Weigh Customer Support Department at (888) 459-3247 for questions regarding the use, operation, repair or return of any Air-Weigh product.

In the event Air-Weigh requests to examine the product prior to disposition OR for repair or replacement, Air-Weigh requires a Return Material Authorization (RMA) number be issued before the item is returned. Customer Support will issue the RMA number. Please reference this RMA number in all correspondence.

Claimed items shall be shipped freight pre-paid to:

Air-Weigh
Customer Support Department
1730 Willow Creek Circle, Suite 100
Eugene, Oregon 97402, USA

The Air-Weigh RMA number **must** appear on the outside of the return packaging. Air-Weigh shall examine returned material within 30 days after receipt, or sooner if mutually agreed upon. If Air-Weigh determines that the part or assembly was defective in material or workmanship and within the warranty period, Air-Weigh will repair or replace the part or assembly and return freight pre-paid. In the event Air-Weigh determines that the part or assembly cannot be repaired or replaced and is within the warranty period, a credit not to exceed the purchase price will be issued to the Air-Weigh customer.

For our customers using purchase orders Air-Weigh will process a credit memo and notify the customer by email or fax. The customer will process a corresponding debit memo and notify Air-Weigh accordingly.

If the part or assembly received by Air-Weigh does not meet the requirements of the warranty program set forth above, at the Air-Weigh customer's request the part or assembly will either be discarded, returned freight collect, or repaired or replaced at the Air-Weigh customer's expense and returned freight collect.

Air Weigh

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