

Air-Weigh[®]

The Self-Weighing Trailer Scales[™]



AW5819 TRAILER PAYLOAD SCALE Installation, Calibration and Operations Manual

Trailers with Hydraulic Cylinder and Air-Ride Suspension



FRAME TRAILER



FRAMELESS TRAILER

Major Components



Trailer ComLink
050-5802-005



ABS T-Breakout
010-8904-004



Optional Mounting Brackets
010-0017-000 010-0018-000



Air Sensor (A) and Cable
010-9012-000
014-4500-010



ABS Power Cable
014-4500-003



Blunt-Cut Power Cable
012-4500-005

Hydraulic Sensor (B)
010- 9086-000
Brass Fitting
150-4080-000



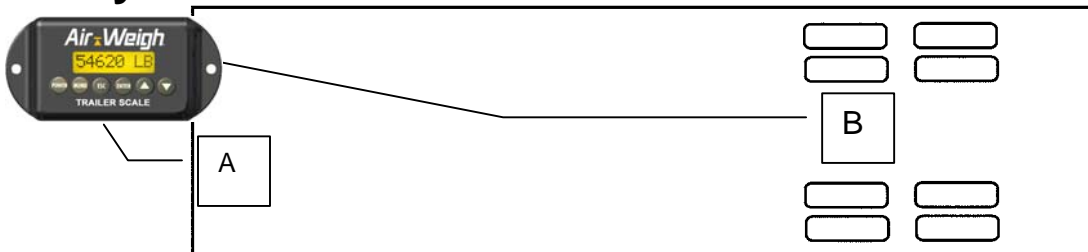
Hydraulic Sensor Cable
014-1000-010
or 014-4500-010



Frameless Trailer Payload Scale Kits

Air-Weigh Trailer Payload Scale Kits can be specified for either frame trailers or frameless trailers (see photos on front cover). Because there is no place to mount the scale on the draft arm of a frameless trailer, Frameless Trailer Payload Scale kits include enough wiring length to be able to mount the scale on the nose of the trailer. On framed trailers, normal mounting position is located on the front end of the frame itself.

Hydraulic Sensor Installation Guidelines



Sensor A must connect to the hydraulic cylinder.
Sensor B must connect to the air-suspension.

Hydraulic
Sensor
Installation

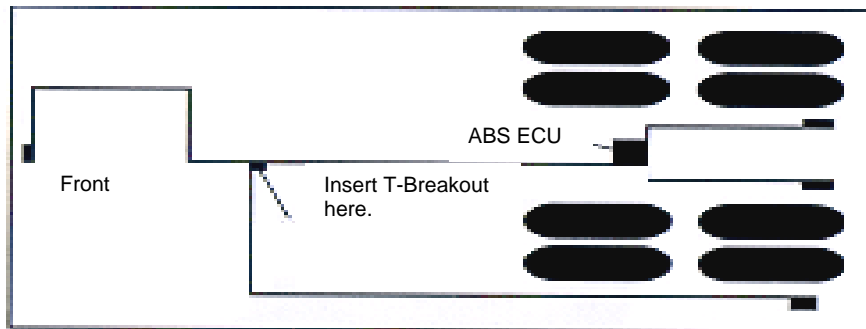


The hydraulic sensor measures hydraulic pressure up to 3000psi. The sensors are equipped with 7/16-20 UNF SAE J1926/2 male port threads. A nitrile o-ring is included with the sensor and **required** for installation.

1. Find a suitable location to tee into the hydraulic line between the lift cylinder and the spool valve.
2. If connecting to a hose, mount the hydraulic sensor to the inside of the frame rail or to another structural member. Ensure the sensor is mounted in a location protected from damage from road debris or from moving parts.
3. If connecting to the hydraulic cylinder, ensure the mounting location will not be impacted by moving parts and that the sensor is oriented vertically, along the length of the cylinder.
4. Ensure that all fittings, hoses and clamps are securely fastened.
5. Pressurize the hydraulic lift cylinder and check for leaks.
6. Follow the procedures in the Trailer Installation and Operations Manual for guidance on installing the air pressure sensor to the trailer's air-ride suspension.

Connecting Power To ComLink Trailer Module

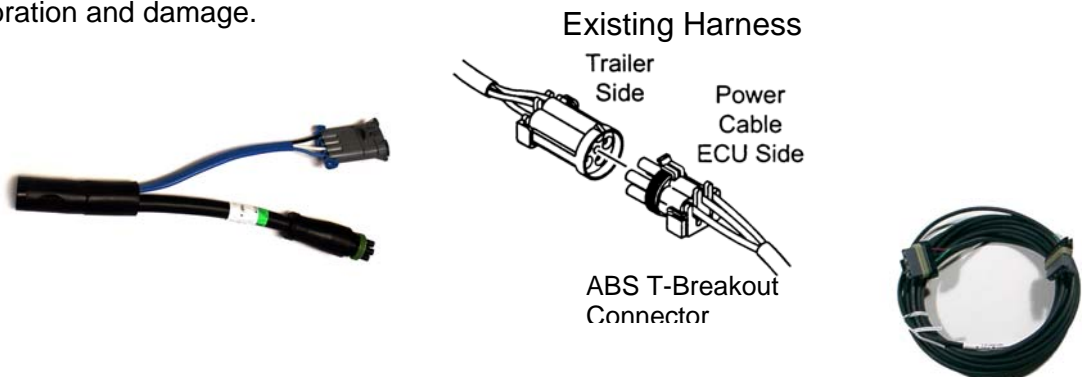
There are two methods of connecting the wiring to your ComLink Trailer Module: Junction Box or with the ABS T-Breakout Connector (for most trailers with North American-type ABS brake systems).



ABS Equipped Trailer Wiring

Installing the ABS T-Breakout Connector

1. Locate the ABS ECU. Trace the ABS ECU power cable to its connection to the trailer wiring harness.
2. Unplug the 5-pin Weather-Pack connection between the ABS ECU power cable and the trailer wiring harness.
3. Connect the ABS power cable and the trailer wiring harness to the ABS T-Breakout Connector. Ensure the locking tabs are locked securely.
4. Connect the ComLink cable to the ABS T-Breakout Connector. Route both the ComLink power and sensor cables through the umbilical connection if the trailer is equipped with sliding suspension. Be sure to use enough cable for proper sliding. Secure cable to the trailer wiring harness with wire ties to prevent vibration and damage.



Junction Box Method

1. Locate the trailer electrical junction box. Remove cover of junction box to expose wiring array.
2. Connect Air-Weigh's BLUE power wire to the junction box's Blue Auxiliary Wire (primary) or the Brown or Black Marker light wires (secondary).
3. Connect Air-Weigh's WHITE (negative) wire to the junction box's White Ground wire, or any other good Ground source.

CALIBRATION

Preliminary Considerations

The accuracy of the AW5819 depends on the accuracy of the certified scale used to calibrate it. Ensure that the in-ground scale is reliable, recently certified and in good repair. It is preferable to obtain both EMPTY and HEAVY weight tickets from the same certified scale. This ensures comparative accuracy. All mechanical weighing devices are subject to wear and tear, and their accuracy may not remain constant over a period of time.

The Trailer Payload Scale measures the payload weight only, so you'll be comparing the gross vehicle weight of the vehicle when it is empty and again when it is heavily loaded to determine how much the payload weighs. The pre-calibration function under the SUSPNS menu is not available for calibration in the Payload Scale mode.

Calibrate on level ground, with the trailer brakes released and the engine running. If the suspension is equipped with a dump-valve, momentarily exhaust the suspension and re-inflate to factory-specified ride height before calibrating. Ensure that the suspension returns to the proper ride-height before calibrating.

1. When calibrating and using the Trailer Payload Scale, it will be necessary to lift the front of the trailer slightly to pressurize the hydraulic system. Briefly release the PTO pressure to stabilize the hydraulic pressure, if necessary. Select a weighing position where the trailer body is raised 6-12 inches and easy to repeatedly identify.
2. The EMPTY value will be zero and must be entered with the trailer empty and in the weighing position described in Step 1 above.
3. Load the trailer and enter the payload weight for the HEAVY value while the trailer is in the weighing position.
4. The payload weight is determined by subtracting the empty gross vehicle weight, sometimes called the tare weight, from the loaded GVW weights.

	EXAMPLE	YOUR WEIGHTS
HEAVY Gross Vehicle Weight:	<u>79,800 lbs.</u>	<u> </u>
(minus) EMPTY (tare) Weight:	<u>— 25,180 lbs.</u>	<u>—</u>
PAYLOAD Weight:	<u>54,620 Lbs.</u>	<u> </u>

Calibration Procedure

NOTE: Remember, EMPTY or HEAVY weight calibrations can be entered in any order, but the HEAVY weight must be entered while the trailer is loaded, and the EMPTY weight must be entered while the trailer is EMPTY. Additionally, the scale

must have both EMPTY and HEAVY weights entered before calibration is complete and accurate weights are displayed.

SET-UP for pounds or kilos: Use the SET-UP menu to set the scale to display in pounds or kilos before you calibrate the scale.

PIN Access protection: When the Trailer Scale PIN # is set to 0, the operator will not need to enter the PIN# to utilize the PROGRAM menu and its calibration functions. Setting a PIN# on the trailer scale provides a layer of security to protect against undesired changes in calibration and other settings. Normally a PIN # is not entered until AFTER the scale has been calibrated.

See the MENU section of this manual to fully understand all the functions of the scale.

EMPTY WEIGHTS

Step 1) Press <MENU>. WEIGHTS appears.

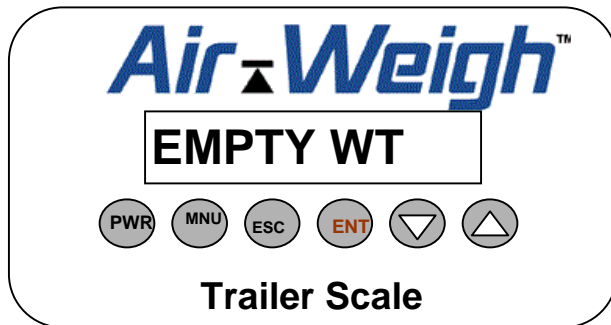
Step 2) Press the DOWN arrow 3 times until PROGRAM appears. Press <ENTER>.

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

Step 3) CALBRATE appears. Press <ENTER>.

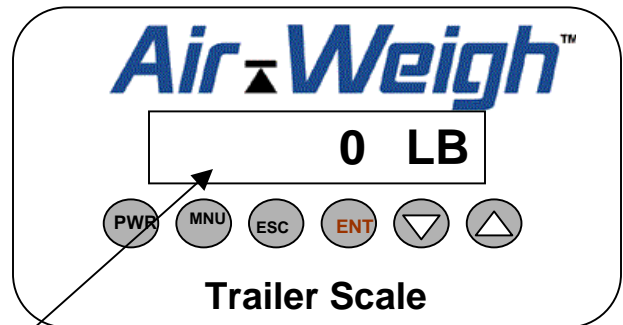
Step 4) Use the <▼> arrow and scroll to EMPTY WT. Press <ENTER>.

Step 5) Using the <▲▼> arrows scroll to zero (0). Press <ENTER>.



Step 4

Example



Step 5

HEAVY (or PAYLOAD) WEIGHTS

Step 1) Press <MENU>. WEIGHTS appears.

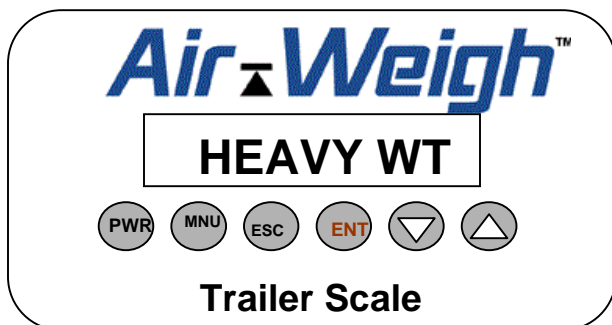
Step 2) Press the <▼> arrow 3 times until PROGRAM appears. Press <ENTER>.

If PIN is needed, enter it at this time.

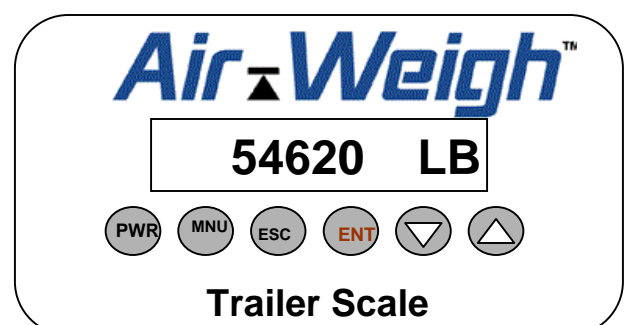
Step 3) CALBRATE appears. Press <ENTER>.

Step 4) Use the <▼> arrow and scroll to HEAVY WT. Press <ENTER>.

Step 5) Using the <▲▼> arrows scroll to the proper PAYLOAD weight, which you calculated by comparing empty and loaded certified scale tickets. Press <ENTER>.



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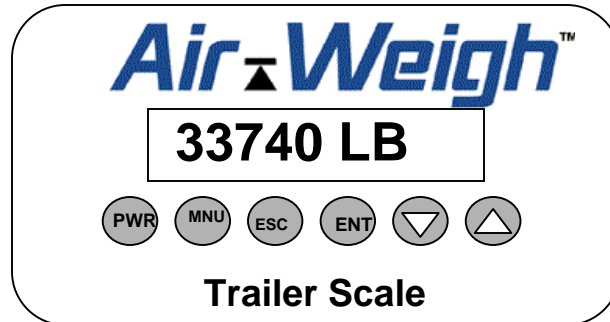


Once HEAVY and EMPTY weights are entered the calibration is complete.

UNDO function

Like a computer's undo command, the UNDO function allows the last entry to be deleted and the previous data in that field returns to the display. If a mistake is made during the calibration process, use this function to correct your error.

OPERATIONS



Front Panel Buttons

1. POWER — press <POWER> once to turn on display, once more to turn off display. The scale will continue to operate and provide weight data to tractor scale units, even if the trailer display is off.
2. MENU — press <MENU> once to display menu selections. See “Menu Selections” below for details.
3. ESC — press <ESC> to go to previous menu selection. Pressing <ESC> before pressing <ENTER> during data entry will make the scale revert to its previous entry. Then pressing <ESC> a second time will return to the previous menu selection.
4. ENTER — pressing <ENTER> selects the flashing menu item. It is also used to enter weights during calibration.
5. ARROW DOWN — press to select menu option immediately below the flashing selection and to scroll the display to a lower number. Holding <DOWN> increases the scrolling rate on numeric entry.
6. ARROW UP — press to select menu option immediately above the flashing selection and to scroll the display to a higher number. Holding <▲ > increases the scrolling rate on numeric entry.

MENU SELECTIONS

Using and Programming the Trailer Scale

Press the <POWER> button to turn the scale on. Press <MENU> once to access the menu selections, and the <▲▼> buttons to scroll to new selections. Refer to the Quick Reference Menu Directory on the inside back cover of this manual for the entire menu structure.

WEIGHTS. Pressing <Menu> will return you to the weights screen. Press <ENTER> to observe the actual weights, with the unit pound or kilograms displayed.

LBS/KG. Changes the weight display and data entry modes to POUNDS or KILOGRAMS. Changing this selection will also automatically convert any calibration values previously entered to the new unit of measure.

DIAGNOSE. Use this menu to obtain system status, calibration data and suspension pressure information. If you require assistance from Air-Weigh Technical Support, use of the Diagnose screen is likely to determine calibration status and whether the system is functioning properly. The selections available include:

STATUS - This selection will show current system status. The status will be “No Errs” if the on-board diagnostics report no errors, or it will show an error code. Follow the instructions under “Troubleshooting” in the back of the manual if the Trailer Scale displays a status error code.

A TO D - The A-to-D, or analog to digital, reading is a numerical representation of the pressure reading from the sensor(s). It does not display in PSI or other pressure unit; rather, the higher the number the higher the measured pressure. The A-to-D will range from zero to 4095. A reading of 0 means that the sensor is disconnected or the sensor cable is open. A 4095 reading means that the sensor is at its maximum reading. This condition usually implies that the sensor is failed or the sensor cable is shorted. Press the <DOWN> or <UP> buttons to observe each of the sensor readings. Each sensor is labeled with an alpha designator, A, B, or C. Note that in hydraulic and pneumatic applications, the designated sensor cable **must** be connected to the appropriate sensor.

RATIO - A number computed after calibrating the scale. The ratio is the number of weight units (lbs or kgs) that the display will change for every single point of the A-to-D value. This value is used for diagnosing calibration and selecting pre-calibration values (see following section, SUSPNSNS).

CAL TYPE – indicates if the scale has been user calibrated or is using a pre-cal suspension entry.

OFFSET - Another figure based on calibration data, and equal to the weight reading when the sensor reading is zero, while factoring in barometric compensation. The offset is also used when diagnosing calibration and selecting pre-calibration values (see following section, SUSPNSNS).

EMPT A2D - The A-to-D value recorded during the empty calibration process, or assigned when selecting a pre-calibration value programmed into the Trailer Scale. If this value is the same or nearly the same as the “HVY A2D” value, there has likely been an error in calibration – usually when the empty and heavy weights were entered without changing the load on the suspension.

HVY A2D - The A-to-D value recorded during the heavy calibration process, or assigned when selecting a pre-calibration value programmed into the Trailer Scale. If this value is the same or nearly the same as the “EMPT A2D” value, there has likely been an error in calibration – usually when the empty and heavy weights were entered without changing the load on the suspension.

EMPTY WT - The weight value entered by the user during the empty calibration process, or assigned when selecting a pre-calibration value programmed into the Trailer Scale.

HEAVY WT - The weight value entered by the user during the heavy calibration process, or assigned when selecting a pre-calibration value programmed into the Trailer Scale.

TYPE - Allows the user to select between AXLE WT or PAYLOAD type of scale. The PAYLOAD scale requires the use of hydraulic sensors on a designated sensor cable. Changing the type in the field is not usually expected. Consult with Air-Weigh Customer Support if changing the Type is required.

MODEL # - Displays the model number of the Trailer Scale module. The model number assigned will affect the operation of the Trailer Scale and some of the features and functions of the unit.

VERSION# - Displays the software revision number of the Trailer Scale Module. Air-Weigh may periodically update the software to add new features or to improve performance of the Trailer Scale. Air-Weigh Customer Support and some approved distributors can re-program the software version of scale modules when necessary.

SERIAL# - Displays the serial number assigned to the module.

ASSIGNMT - Displays whether the Trailer Scale is set up for automatic trailer channel number assignment (AUTOASGN) or programmed for a specific channel (ASSIGN#). When combination trailers, such as low-boys or B-trains, are equipped with scales, Air-Weigh recommends that each Trailer Scale be assigned a specific channel number. See instructions under TRAILER # in next section for more information on assigning specific channel numbers to Trailer Scales.

PRESSURE - Displays the pressure recorded by the sensors in several units of measure – PSI, KPA and BAR. The display will cycle through each of these units until the <ESC> button is pressed.

PROGRAM - The program menu allows the operator to calibrate the scale system by selecting functions and entering weight data into the scale. It also provides for PIN # password protection to reduce tampering after the system has been calibrated. The system includes pre-calibrated programming for many of

the most popular trailer suspensions that provides a short-cut to the calibration process when the Trailer Scale is in the AXLE WEIGHT mode.

PIN # - Upon selection of PROGRAM, the scale requests a PIN number. If a PIN number has not been entered, the request for PIN #? Will automatically disappear, allowing you to enter the calibration menu. If a PIN # other than 0 has been entered, the operator will be prompted to enter the PIN code before being granted access to this feature. Once the correct PIN # has been entered, the operator will be granted access to the PROGRAM functions *until the power to the Trailer Scale is cycled once.*

CALBRATE – This section is used to calibrate the scale. The SUSPNSNS section contains pre-programmed calibration values for many popular trailer suspensions. The Trailer Payload Scale can not use the pre-calibrated program selections. The Payload scale must be calibrated by entering the EMPTY weight into the scale system when the vehicle is empty and entering the PAYLOAD weight into the scale system when it is fully loaded. To calibrate, see CALIBRATION, page 6.

SUSPNSNS - Contains pre-programmed calibration values for many popular trailer suspensions. May only be used when scale is in the AXLE WEIGHT mode.

EMPTY WT – Used to enter EMPTY weight during calibration. In PAYLOAD mode, enter zero (0) when the trailer is empty.

HEAVY WT – Used to enter the heavy PAYLOAD weight. In the PAYLOAD mode, enter the payload weight that the trailer is carrying when it is loaded.

UNDO – Like a computer's undo command, the UNDO function allows the last entry to be deleted and the previous data in that field returns to the display. If a mistake is made during the calibration process, use this function to correct your error.

TRAILER # - Used only in conjunction with Air-Weigh tractor scales and is rarely used with a scale in the PAYLOAD mode. Allows the Trailer Scale to be set for automatic channel assignment ("AUTOASGN), or set to a specific channel number. When combination trailers, such as low-boys or B-trains, are equipped with scales, Air-Weigh recommends that each Trailer Scale be assigned a specific channel number. Channel numbers are usually assigned from the front of the truck towards the rear, *by axle groups*. Air-Weigh Tractor Scales reserve channels 1 and 2 for the Steer and Drives, respectively.

To set a Trailer Scale to a specific channel number, select TRAILER# from the PROGRAM menu by pressing <ENTER>. Press <ENTER> again when "ASSIGN#" is flashing on the screen. Press <▼ > or <▲> to select the desired channel number. The value must be between 3 and 9. Press <ENTER> to assign the desired channel number to the Trailer Scale. The display will then show "Assned#" with the selected channel number. See figure 1 below.

Setting the Trailer Scale to channel number 0 will return the unit to Autoassign mode, and the Tractor Scale will automatically assign a channel number to the Trailer Scale when the units are powered up. See figure 2 below.

Note: The automatic channel assignment may result in different assignments between power cycles. Air-Weigh recommends assigning specific channel numbers to Trailer Scales when using more than two on the same vehicle.

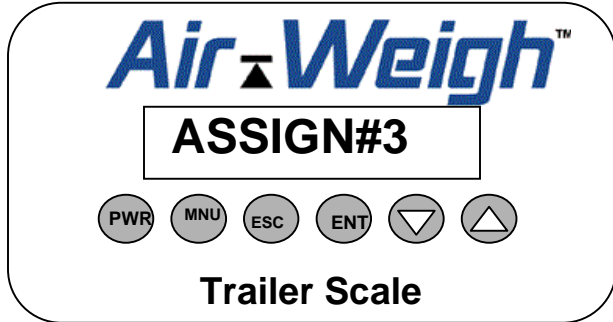


Fig 1

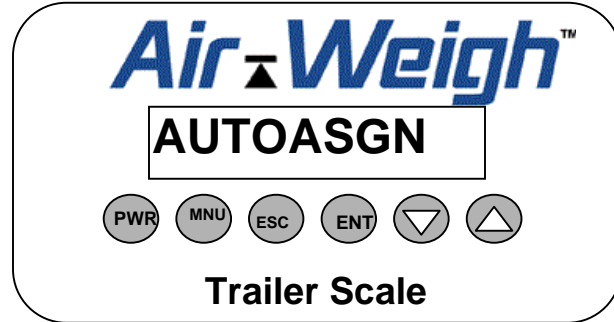
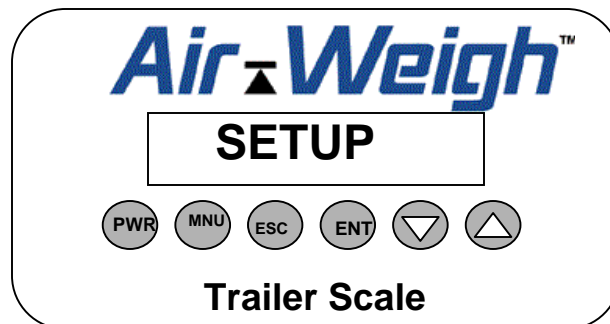


Fig 2

ALARMS – The alarm is activated or deactivated for programming by changing EXIST to YES or NO.

SETUP - The setup menu allows the operator to choose between several display options and to change the “Type” of scale assigned to the unit. Setup also allows the user to change the display language and select a new PIN number. See below.

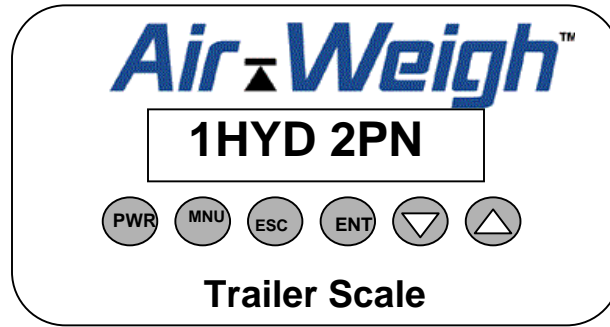


INSTRUCT - Select “YES” to include text reminders on the scale display during first start up. The reminders include weighing on a flat surface, releasing the brakes and inflating the suspension. Select “NO” to turn this feature off.

TYPE - Allows the user to choose between two different modes of operation. When PAYLOAD selected, it allows the user to calibrate for payload weights. It requires more than one sensor. Payload scales use hydraulic or load cell sensors in addition to the standard pneumatic, or air, sensor. When set to AXLE WT, the Trailer Scale is calibrated to show on the ground weight of the trailer axles.

SENSORS - Allows the user to set the Trailer Scale to accept input from multiple types of sensors to calculate weight. For Payload type scales, the operator can select between hydraulic, pneumatic and load cell sensors, depending upon the application. The Trailer Scale display indicates “HYD” for

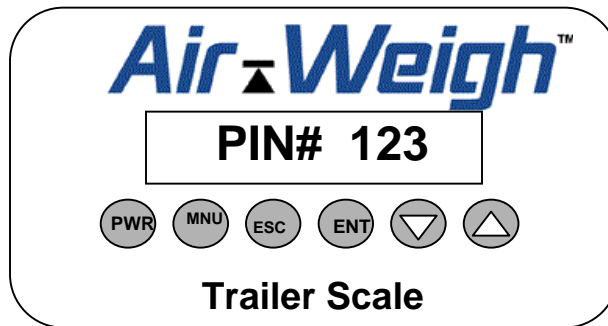
hydraulic sensors, “PN” for pneumatic (air) sensors, and “LC” for load cell sensors, as well as the number of each type of sensor. See below:



LANGUAGE - Select the Trailer Scale to display commands in either English or Spanish.

NEW PIN#. - When the Trailer Scale is set to 0, the operator will not need to enter the PIN# to utilize the PROGRAM menu functions. Setting a PIN# on the trailer scale provides a layer of security to protect against tampering in calibration and other settings.

To select a new PIN#, simply press the <▲ > or <▼ > buttons until the desired number is displayed and press <ENTER>. See below. The operator will then need to enter this PIN# before being granted access to the PROGRAM menu functions. All other menu functions are accessible without the PIN#. If the PIN# is lost or forgotten, record the Trailer Scale serial number and contact Air-Weigh Customer Support for assistance.



Programming the Alarm Function

The gray, sealed wire from the main wiring harness is the alarm circuit output. It can be connected to any self-grounded alarm device with a current draw of 1.0 amp or less. You must install a relay for any device that draws more than 1.0 amp.

To use the alarm feature, attach the gray alarm output wire stemming from the trailer interface harness to a user-supplied alarm. It 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 pulsing voltage, while *alarm weight* output is continuous voltage. Remember, it is OK to

program in an *alarm weight* while leaving the warning weight at zero. However, if a warning weight is programmed in, a higher setting alarm weight must be entered.

To deactivate and reset an active warning or alarm weight alarm, simply press the Escape button <ESC> once. This stops power from flowing to the alarm output wire. Once the displayed weight readings fall below the programmed alarm settings, the alarm function resets. The alarm feature is now ready for the next load.

Alarm Function Programming Procedure

- 1. Press the <MENU> button.***
- 2. Use arrows <▲▼> to display PROGRAM. Press <ENTER>.***
- 3. Use arrows <▲▼> to display ALARMS. Press <ENTER>. EXIST is shown in the scale display.***

NOTE: At EXIST, press <ENTER>. If EXIST is YES, then press <ESC> and proceed to step 4. If EXIST is NO, the alarm feature has not been activated in the scale. To activate, use the arrows to change the NO to YES and press <ENTER>. Scale will momentarily display Accepted then revert to showing EXIST.

- 4. Press the down arrow <▲> to display ALARM WT, press <ENTER>. Use arrows <▲▼> to change the zero in the display to a weight that will activate the alarm.***

Press <ENTER> to store that weight into the scale's memory. The screen will momentarily display Accepted as the weight is stored and then revert to displaying ALARM WT.

- 5. If warning weights are not desired, skip to step 6. Press the down arrow <▲> to display WARNING WT, press <ENTER>.***

Use arrows <▲▼> to change the zero in the display to a weight that will activate the alarm. Press <ENTER> to store that weight into the scale's memory. The screen will display Accepted as the weight is stored then revert to displaying ALARM WT.

NOTE: If the warning weight is higher than the alarm weight the scale will display Too Hvy and revert to WARN WT. Press <ENTER> and use arrows <▲▼> to select a weight that is lower than the alarm weight for a warning weight. Press <ENTER> to store the weight. Scale displays Accepted.

- 6. To activate the alarm feature, use arrows <▲▼> to display ALARM ON. Press <ENTER>. Choose YES or NO and then press <ENTER>. Scale momentarily displays Accepted.***
- 7. To return to the main weights display, press <MENU>, WEIGHTS will display on the screen. And press <ENTER> to display trailer weights. The alarm weight criteria are now programmed into the scale, and with the ALARM ON set to YES it is triggered to activate as warning and alarm weights are reached.***

*To deactivate and reset an active warning or alarm weight, simply press the Escape button <ESC> once. **This stops power from flowing to the alarm output wire and once the displayed weight readings fall below the programmed alarm settings, the alarm function resets. The scale's alarm feature is now ready for the next load. Turning the alarm feature completely off requires going back to the ALARM ON portion of the PROGRAM menu and changing the YES back to a NO (reference step 6 above). This completely disables the alarm.***

NOTE: Remember, to deactivate and reset an active warning or alarm weight, simply press the Escape button <ESC> once. To turn the alarm function completely off go back to the ALARM ON display under PROGRAM and change the YES to a NO.

Overweight Alarm Applications

Requests for this Alarm feature have come from multiple segments across the trucking community, where the driver cannot view the Trailer Scale display while loading his trailer. Such applications include:

- **Truckload Van and Refer** for monitoring trailer suspension while moving slider to legalize load. Warning LED light is mounted to nose of trailer.
- **Platform and Heavy-Haul** for positioning heavy machinery to legalize trailer axles
- **Chip Hauling**
- **Grain Hauling**
- **End Dumps** (on either AW5802 Axle Scales OR AW5819 Trailer Payload Scales)
- **Live Floors and Tipper Trailers**
- **Pneumatic and Liquid Tankers**
- **Livestock** for distributing live loads between drive and trailer axles

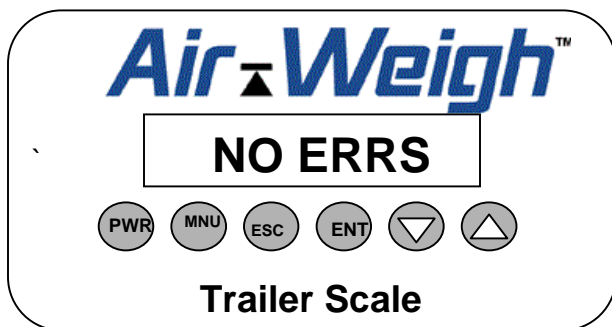
TROUBLE SHOOTING

The Air-Weigh 5819 scale system is extremely self-sufficient. To operate correctly power and ground are the only connections needed. Ensure the 4 pin Metri-Pack™ connectors (male/female) make a good connection and 10-12 volts DC is available for the system. Within the connecting plugs power will be pin-position A and ground will be pin-position B. Initially check for power here. If the system used to power up, but now doesn't, double-check the circuit being used to power it. Many times the answer is as simple as turning on the marker lights, or realizing that one of your tractors has a switched blue wire versus ignition hot. If the ComLink doesn't power up, use a voltmeter and test the power and ground circuits to isolate where power is lost. Once location of fault is found make proper repairs.

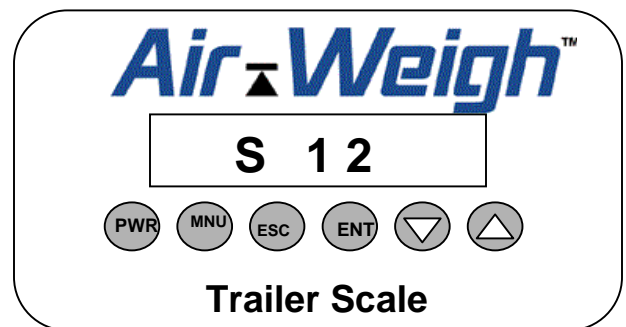
All other faults can be identified internally through the STATUS Display on the scale. Press <MENU>, and use the <UP/DOWN> arrows until DIAGNOSE is displayed and press <ENTER>. With the word STATUS *flashing*, press <ENTER> one more time. If NO ERRS displays on the screen, then the system is functioning normally. Reference the TROUBLESHOOTING CHART for fault code status.

TROUBLESHOOTING CHART		
CODE	PROBLEM DESCRIPTION	SOLUTION
E	EEPROM error	Memory failure. Send to AW for repair
C	No communications w/ Tractor	Will appear until tractor is found or will disappear if no tractor scale system is present. Ensure tractor/trailer systems are compatible
S	Bad or missing sensor	Check connectors and cabling to sensors
1	Sensor 1	Ensure sensors are in proper repair
2	Sensor 2	Ensure number of sensors provided is same
3	Sensor 3	number of sensors needed

Examples of fault code status are below.



Indicates no problem found.



Bad or missing sensors 1 and 2

If troubleshooting procedures don't solve the problem, contact your local AW Dealer or call Air-Weigh Customer Support at 1-888-459-3247 (1-541-343-7884 outside USA).

QUICK REFERENCE MENU DIRECTORY

Press the <MENU> key once to access the Trailer Scale display. Use the <UP/DOWN> arrows to move up and down through the menu selections. Press ENTER to activate a function. Pressing <ESC> will move back to the previous menu location.

WEIGHTS

LBS/KG

POUNDS

KILOGRAMS

DIAGNOSE

STATUS

A TO D

CAL TYPE

RATIO

OFFSET

EMPT A2D

HVY A2D

EMPTY WT

HEAVY WT

TYPE

MODEL#

VERSION#

SERIAL#

ASSIGNMT

PRESSURE

PROGRAM

PIN#

CALBRATE

EMPTY WT

HEAVY WT

UNDO

TRAILER#

ALARMS

EXIST

SETUP

INSTRUCT

YES

NO

TYPE

AXLE WT

PAYLOAD

SENSORS

LANGUAGE

ENGLISH

SPANISH

NEW PIN#

Air-Weigh[®]

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P.O.Box 24308 • Eugene, Oregon 97402-0437 USA

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Customer Support (888) 459-3247 • FAX (541) 431-3121

Hours of Operation: Mon-Fri, 8am – 5pm, Pacific Time

www.Air-Weigh.com

May be covered by U.S. Patent Nos. 4832141, 5478974, 5780782,

Foreign Patent Nos. 623635, 1305191, 260494, 677998, 2122766, 625697.

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