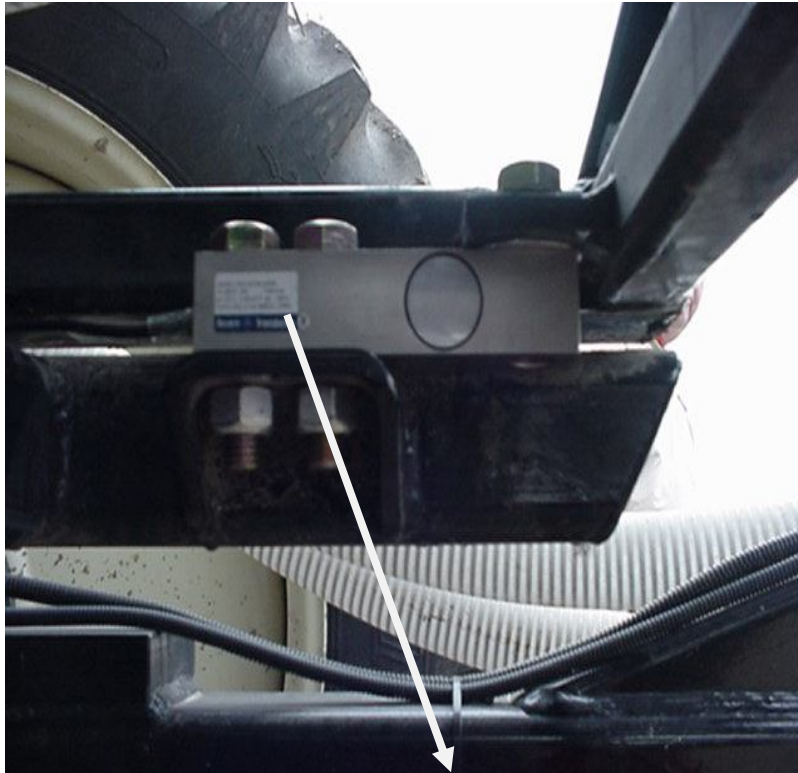




Montag Frame Scale System



Load Cell

Benefits of utilizing this scale option include:

- **Determine pounds of fertilizer used per acre**
- **Determine pounds of fertilizer used per farm**
- **Know inventory of fertilizer at all times at 99.5% accuracy**
- **The capacity of the scale system is 40,000 pounds**
- **Durable enough to withstand rapid application and rough ground**
- **Optional indicator upgrade, allowing easy transfer of data to computer**

The Montag Fertilizer Applicator scale kit includes four load cells, wiring, mounting brackets, and a water resistant, back-lit readout. The installation time is 3-4 hours, and has NO welding and NO drilling involved.

Scale-Tec also offers kits for other Fertilizer Spreaders.

Contact Scale-Tec for more information: 1-888-962-2344 www.scale-tec.com scaletec@scale-tec.com

Instructions

1. Lift up the hopper 2" from the frame and put a one inch shim between the upper frame and lower frame.
2. Install load cell in each corner under hopper frame. Install the load cell with the arrow on the end of the weigh bar pointed UP.
3. Using the 3 1/2" x 3/4" bolts mount the long side of the weigh bars to the axle frame. On the short end of the weigh bar, install a 3/4" flat washer between the load cell and the plate. Use the 3/4" x 2" fine thread bolt. DO NOT tighten this bolt. Put lock tight on threads and leave 1/16" clearance between the head and the flat plate.
4. Run the wires up the frame and to one side of the frame, to one of the front necks. Place the J-box there as shown below by cleaning the metal off thoroughly and letting it dry. Once the area is clean and dry pull adhesive covers off of back and put it on the frame by pressing firmly for 30 seconds. **MAKE SURE TO GIVE ALL CORDS PLENTY OF ROOM TO MOVE AND NOT BE IN THE WAY OF POTENTIALLY GETTING RUBBED OR CUT.**



Power Connection:

The power cable should be connected directly to a vehicle battery or regulated power supply. The scale end of the power cable is attached to the J901 connector located on the bottom panel of the scale.

Connect the WHITE wire from the power cable to +12 VDC and the BLACK wire to GROUND. The indicator is fused internally at 4 amps.

Power Cable Connections:

Wire color	Wire Function
Red	<i>Battery (+12 VDC)</i>
Black	<i>GROUND</i>

Load Cell Connection:

The indicator is designed to operate with strain gage load cells. The indicator will normally be supplied with a "J-BOX" cable going between the scale and the load cell junction box. Extension kits are available from your dealer in various lengths.

To connect the load cells, attach the junction box cable to the J902 or J903 connector on the bottom panel of the scale. Connect the load cell cables in the junction box. Use TB1, TB2, and TB3 for a 3 load cell system, and add TB4 if you have a 4 load cell system.

Troubleshooting Guide

****All bars need to weigh accurately before it will be beneficial to recalibrate your indicator****

Experiencing inaccurate weights?

1) Measure the same person, or a 200 pound bag of seed, on each of the weigh bars.

-If one weighs negative, turn that weigh bar over. (An upside down bar will weigh negative.)

-If one side is weighing 20% light, check for an obstruction. Is anything binding or any metal rubbing?

*Could be a faulty weigh bar

-If they are all even weights, but are weighing light or heavy, we need to adjust the calibration. If your scale is more than 5% off, call us for help, as your scale may have had the wrong calibration number put in it from the factory. 319-462-2344.

The hopper being weighed needs to be at least $\frac{3}{4}$ full for us to adjust calibration.

Check operator's manual or give us a call at 1-888-962-2344.

Experiencing erratic weights?

The following process needs to occur in an effort to eliminate one part at a time in an effort to find the problem! When you reconnect the faulty part you will have erratic readings again.

1) Disconnect the junction box cord from the indicator marked "load cells". The indicator should stabilize after 45 seconds. Try to zero out the indicator.

IF the indicator won't zero out, the indicator is the problem.

IF it will zero out:

2) Connect the junction box back to the indicator. And then disconnect all of the load cells from the junction box.

3) Zero out the indicator. IF the indicator won't zero out the problem is the junction box or the junction box cable.

IF it will zero out:

4) Reconnect the load cells ONE AT A TIME, zeroing out the indicator each time. When you reconnect the faulty load cell, you will have erratic readings again.