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## Byron Dump Cart



## INTRODUCTION



This **SAFETY ALERT SYMBOL** indicates important safety messages in the manual. When you see this symbol, be alert to the possibility of **PERSONAL INJURY** and carefully read the message that follows.



**NEVER OPERATE WITHOUT ALL COVERS, SHIELDS AND GUARDS IN PLACE. KEEP HANDS, FEET AND CLOTHING AWAY FROM MOVING PARTS. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

Some covers and guards have been removed for illustrative/photographic purposes only in this manual.

For information on ordering repair parts, refer to Parts Section in this book.

This supersedes all previous published instructions.

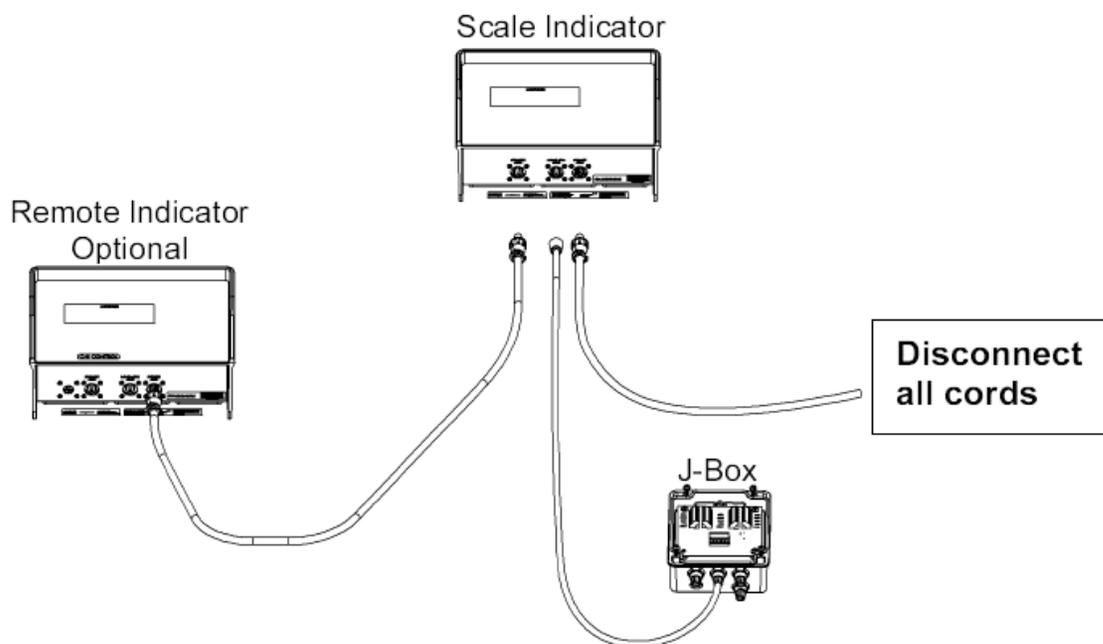


## IMPORTANT!

### Charging Battery and Welding

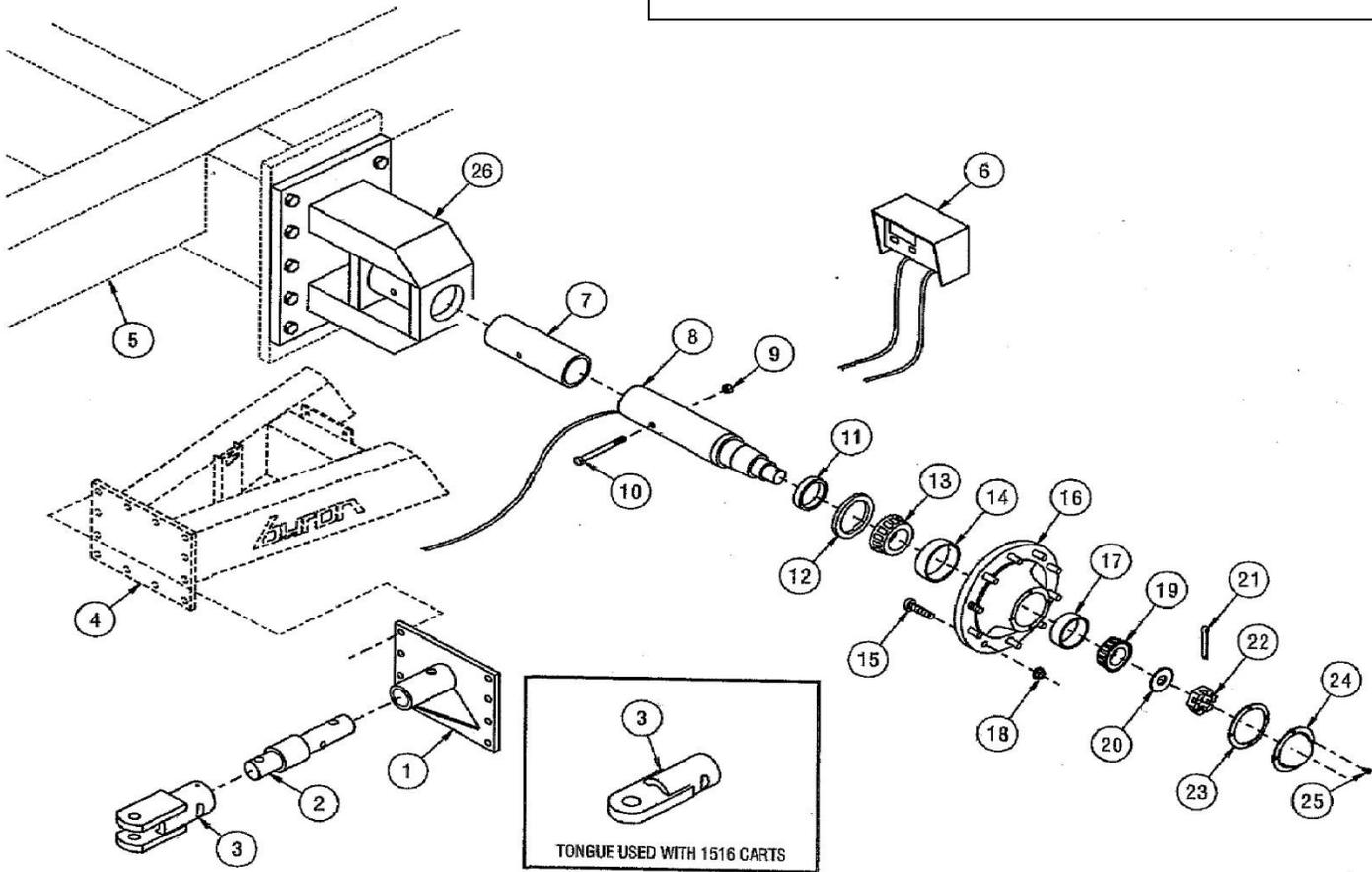
Disconnect all cables from the weighing indicator before charging the battery or welding on the machine. If cables are left connected, the weighing indicator and connected load cells could be damaged.

**Important:** Do not weld near indicator, load cells or cables; remove from area to be welded. Place ground close to area to be welded to prevent current from passing through electronic parts.



When your scale kit comes with new #26 Axle brackets the #7 Sleeve is not needed.

When you are using existing #26 Axle brackets the #7 sleeves will be provided.

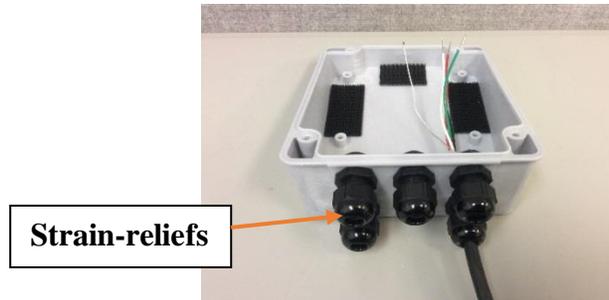


## Junction Box

The junction box is water resistant, not water-proof. It should be mounted to avoid submersion during wet weather and to avoid physical abuse. All load cell cables must reach the J-Box. Install by removing the double sided tape backing and apply to cleaned surface.

### Connect Load Cell and Junction Box Cable

1. Route front and rear load cell cables of too J-box location. Make sure they are not bound or pinched. Cable tie load cell cables in place (Cable ties not included in kit).
2. Remove the cover and take out all five terminal blocks from the J-box.
3. Insert load cell and J-box cables through each of the water-tight strain-reliefs.



4. Connect wires of the same color to the same terminal block.

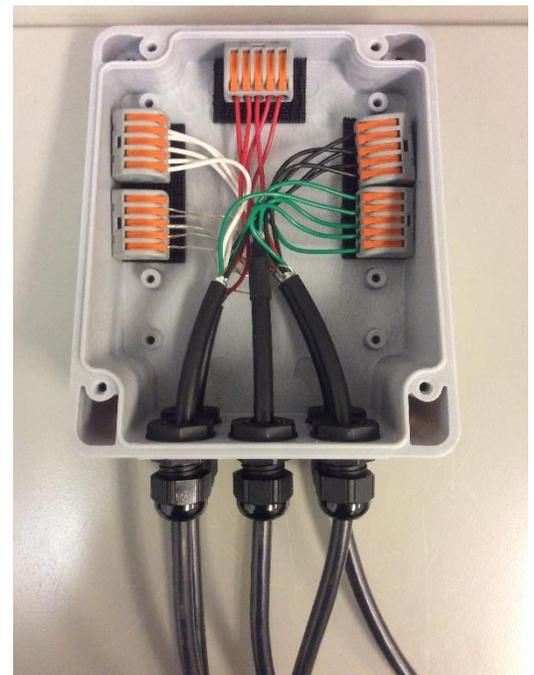
### Installing Wires into Terminal Block

1. Open levers 90° to locked position.
2. Insert individual wires into terminal.
3. Close lever.
4. Tug wire to assure solid connection.

Note: Wire strip length is 7/16" (11mm).  
Make sure you are making good connection with the wire and not the insulation on the wire.



5. Install terminal block into the J-box (location not important).
6. Tighten nuts on the water-tight strain-reliefs.
7. Assure that gasket is properly installed in the cover.
8. Screw the cover back in place.
9. Clean the surface area where you plan to mount the J-Box.
10. Remove the double sided tape backing and position in place and press firmly to insure a solid connection.



**Always ground close to where you're welding, but do NOT run a current through the load cell.**

**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 RED 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:

<b>Wire color</b>	<b>Wire Function</b>
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.

## ***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.