



DIGI-STAR 5 POINT Grain Cart Scale System



J. & M. MFG. Co., Inc.

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Before Beginning

Read and understand the owners manual.

To avoid muscle strain or any other injury, use lifting aids and proper lifting techniques while moving heavy objects.

CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE. READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT. SEE OWNERS MANUAL FOR ALL SAFETY PRECAUTIONS. Remove the 1" X 7-1/2" Gr8 YZ Hex Bolt and 1" Gr5 Z Centerlock Hex Nut from the swivel hitch. Detach the Swivel Hitch from the 2-7/8" shaft.

Un-assemble the Hitch Spool Plate Support by removing the (8) 3/4" x 3" Gr8 YZ Fine Thread Hex Bolts.



Remove the 2-7/8" shaft by un-fastening the 1" x 4-1/2" Gr5 Z Hex Bolt and the 1" Gr5 Z Centerlock Hex Nut.

Install the Weigh Bar Receiver. Use (4) 3/4" Zinc Finish Lock Washers and (4) 3/4" x 3" Gr8 YZ Fine Thread Hex Bolts to attach the Weigh Bar Receiver to the Hitch Weldment. **Tighten** hardware once installed.

Receiver Size: 1000-1501 (2-7/8") 750-875 (2-1/2")



Route the Weigh Bar wire. Feed the wire through the auger side of the A-frame tubing and exit the frame through the hole located directly behind the front leg on the grain cart.

Note: Hitch Weigh Bars Size 1000-1501 = 2-7/8" Weigh Bar 750-875 = 2-1/2" Weigh Bar with Reducer Collar

Install the Weigh Bar and Hitch. The front of the Weigh Bar has a directional decal on it. The arrow on the decal needs to point up. Fasten the Weigh Bar to the Receiver by using a 1" x 5-1/2" Gr5 Z Hex Bolt and a 1" Gr5 Z Centerlock Hex Nut. Install the Hitch using a 1" x 7-1/2" Gr8 YZ Hex Bolt and a 1" Gr5 Z Centerlock Hex Nut. **Tighten hardware once installed.**

For 750-875 Install Reducer Collar onto Hitch Weigh bar before installing the Hitch.







Detach the Axle Weldment by removing (8) 1" x 3" Gr5 Z Hex Bolts, (8) 1" Zinc Finish Lock Washers and (8) 1" Gr5 Z Hex Nuts.



NOTE: All Axle Weigh Bars are 2-7/8"

Install the (4) Axle Weigh Bars onto the Axle Weldment. Use (4) 1" x 5-1/2" Gr5 Z Hex Bolts and (4) 1" Gr5 Z Hex Nuts to install the Weigh Bars. **Tighten hardware once installed.**





1000-1501 Sticker is visible and points down.



750-875 Sticker is not visible and points up.

Install the Spindle Mount Weldments. There are two different mounts. The cut out corner needs to face the outside of the cart. Use a 1" X 5-1/2" Gr5 Z Hex Bolt and a 1" Gr5 Z Hex Nut to install each Spindle Mount Weldment. **Tighten hardware once installed.**



Attach the Axle Weldment to the A-Frame. Use (12) 1" x 3" Gr5 Z Hex Bolts, (12) 1" Zinc Finish Lock Washers and (12) 1" Gr5 Z Hex Nuts. **Tighten hardware once installed.**



Install the wire looms around all four wires entering the A-Frame from the Axle Weigh Bars. Feed the lefts side Weigh bar wires through the hole located directly above the Axle Weldment towards the front of the cart. The wires need to come out of the hole located directly below the left side leg. The right Weigh bar wires need to be routed down the right leg of the A-frame, out the hole next to the crossbrace, through the conduit, into the left A-frame bar to the same hole the left Weigh Bar wires come out of.



Wire Loom

Before routing the rear Weigh Bar wires, label the wires by wrapping electrical tape around the rear left Weigh Bar once and the rear right Weigh Bar twice. This will help identify wires when it is time to install the Junction Box.







For Models 1000-1501

Install the Junction Box. Remove the cover from the Junction Box.

Use the Junction Box as a template, mark and drill (4) 3/16" holes on the front left side leg of the grain cart. The junction box should be placed approximately 5" above the tubing of the frame. Attach using (4) 1/4" self tapping screws. The self tapping screws should be started on the outside of the side leg.

For Models 750-875

Install the Junction Box. Remove the cover from the Junction Box.

Use the Junction Box as a template, mark and drill (4) 3/16" holes on the front left leg of the grain cart. The junction box should be placed approximately 3" below the grommet hole on the front leg. Attach using (4) 1/4" self tapping screws. The self tapping screws should be started on the outside of the side leg.

Install the wires from the Weigh Bars to the Junction Box. The wires from the indicator box go to the plug at the bottom. Wires from the Hitch Weigh Bar go to the plug 2nd from the bottom. The Axle Weigh Bar wires go to the top four plugs in the order specified in the following image. Each wire goes to the corresponding color on each

Replace cover on Junction Box.



Hitch Weigh Bar

MOUNTING THE BATTERY BOX AND SCALE INDICATOR

Using the battery box as a template, mark and drill two 7/16" holes on the inside of the front leg. The battery should be position as low as it can go on the front leg. Secure the Battery Box to the front leg of the grain cart using two 3/8 x 1" Serrated Flange Hex Bolts and Nuts. **Tighten hardware once finished**.



Using the mounting bracket as a template, mark and drill two 7/16" holes, 3-1/4" above the grommet hole on the front leg. If you are using the 460 indicator the holes need to be drilled 4" above the grommet hole on the front leg. Secure the mounting bracket to the front leg using two 3/8" x 1" serrated flange hex nuts and bolts. Slide the Indicator across the top of the mounting bracket and secure using two #10 hex bolts and nuts. **Tighten hardware once finished**.





Connect the Junction Box Cable to the port on the bottom of the indicator.

To connect the Power Cord to the Indicator Box, attach screw plug end of the Power Cord into the power port of the Indicator box. To connect to the battery, secure the Red Wire of the Power Cord to the Positive terminal of the battery and the Black Wire to the Negative Terminal. Be sure any additional wires provided by the Power Cord are properly stored and secured.

AUTO LOGGER



- 2. Cut the PVC drive shaft cover back 6".
- 3. Install the screw clamp.
- 4. Install the sensor bracket onto the top right bolt of the bearing holder.
- 5. Attach the sensor to the sensor bracket. An 1/8" should separate the sensor and the screw clamp. Adjust accordingly, then tighten the two jam nuts.
- 6. Route the cable coming from the sensor through the A-Frame tube towards the battery. Connect the cable to the three prong connector which attaches to the battery. Secure the cable with zip ties.

For more detailed installation instructions see the included Digi-Star Autolog manual to complete this installation.



Grain Cart must be attached to the tractor. All tongue weight should be on tractor's hitch.

For 750-1501

- 1. Turn display unit on.
- 2. Briefly Press "O" then "On" until "Set Up" appears on the display.
- 3. Release from "On"
- 4. Select "On" again to get to the screen with 24,280 flashing.
- 5. Using "Start Stop" to select which digit to change and "0" and "Field" to move the digit up or down, change the current value to 42,280.
- 6. Select "Power" to turn display unit off.

For 875-1325 Calibration is complete. For 1326-1501 continue to next step.

For 1326-1501

- 1. Turn display unit on.
- 2. Briefly Press "O" then "On" until "Set Up" appears on the display.
- 3. Release from "On"
- 4. Using "Start Stop" to select which digit to change and "0" and "Field" to move the digit up or down, change the current value to 127,100.





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1	Digi-Star Junction Box	JM0019038
2	1/4" x 3/4" Self Tapping Screw	JM0001570
3	3/8" X 1" Gr5 Z SF Hex Bolt	JM0002092
4	Battery Box Strap	JM0000364
5	3/8" Gr5 Z SF Hex Nut	JM0002152
6	Battery Box Walls	JM0000365
7	GT460 Digi-Star Scale Monitor Mount	JM0000361
8	5 Point Axle Mount - Spindle Mount	JM0018228
9	5 Point Axle Mount - Spindle Mount Weldment - Single	JM0018226
10	1" Gr5 Z Hex Nut	JM0002127
11	1" X 5.5" Gr5 Z Hex Bolt	JM0002110
12	1" Zinc Finish Lock Washer	JM0019203
13	1" X 3" Gr5 Z Hex Bolt	JM0016686
14	Digi-Star - 2-7/8" Weight Bar	JM0000355
14	Digi-Star - 2-1/2" Weight Bar	JM0024207
15	3/4"-16 X 3" Gr8 YZ Hex Bolt	JM0018542
16	3/4" Zinc Finish Lock Washer	JM0018544
17	1" Gr5 Z Centerlock Hex Nut	JM0002149
18	1" X 7-1/2" Gr8 YZ Hex Bolt	JM0017944
19	GT460 Digi-Star Scale Monitor	JM0015453
19	GT400 Digi-Star Scale Monitor	JM0019040
20	2-1/2" Reducer Collar (not shown)	JM0018258