

SMALL ANIMAL LIVESTOCK SCALES

OWNERS MANUAL

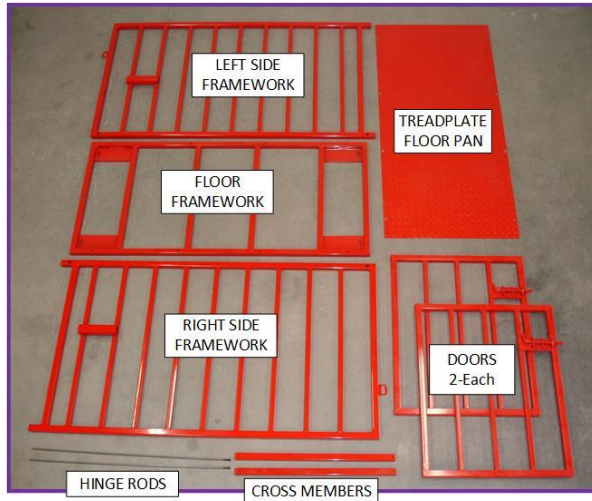


ITEM #:SS-01

Congratulations on the purchase of your new Small Animal Livestock Scale from Extreme Show Supply. Please read through the instructions thoroughly prior to assembly of the scales.

1. Inventory each package/box to assure all the items are received prior to assembly.

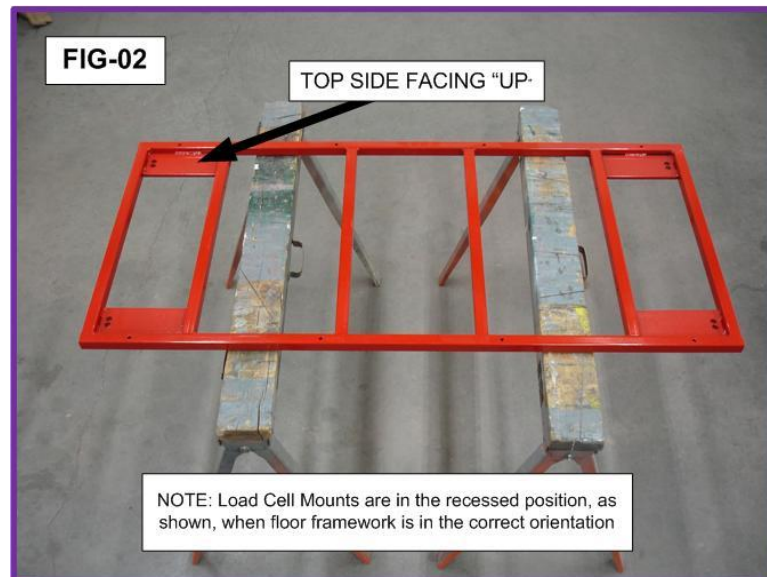
PACKAGE #1 – FRAMEWORK



PACKAGE #2 - ELECTRONICS

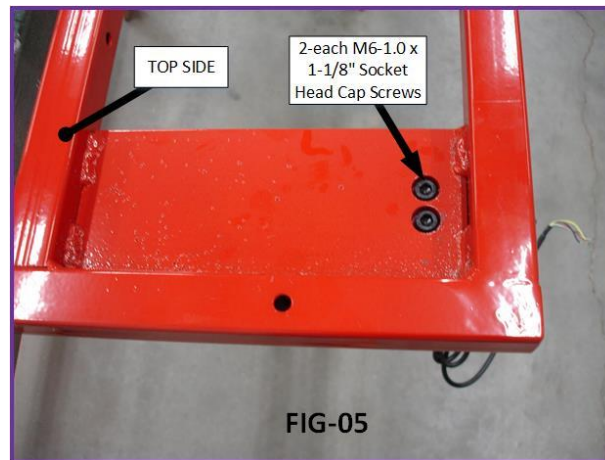
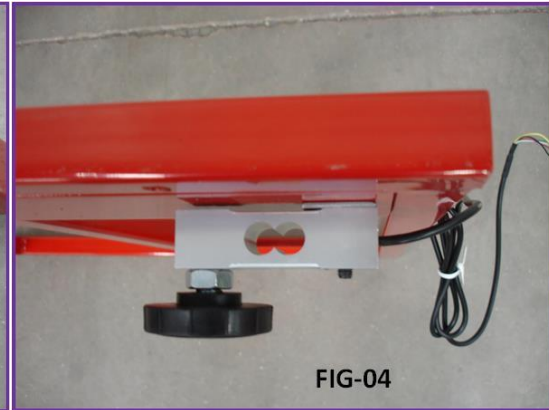
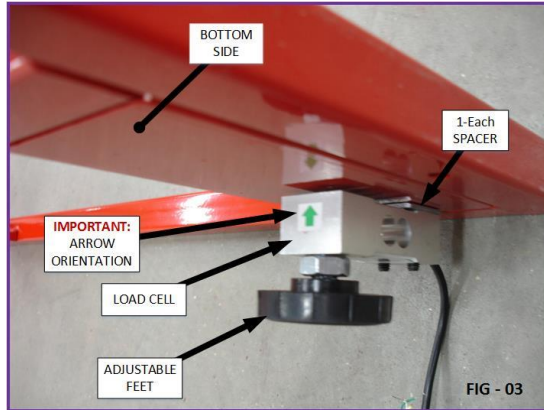
1. DIGITAL WEIGHING INDICATOR + BRACKET
2. POWER CORD FOR DIGITAL WEIGHING INDICATOR
3. 4-each LOAD CELLS + 4-each SPACERS
+ 8-each M6-1.0 X 1-1/8" LONG Socket Head Cap Screws
4. 4-each ADJUSTABLE FEET (1 per LOAD CELL)
5. JUNCTION BOX
6. CABLE (JUNCTION BOX TO DIGITAL WEIGHING INDICATOR)

2. TIP: Utilize Saw Horses for this step. Place Floor Framework on Sawhorses, right side up, as shown, and prepare to assemble 4-each load cells.

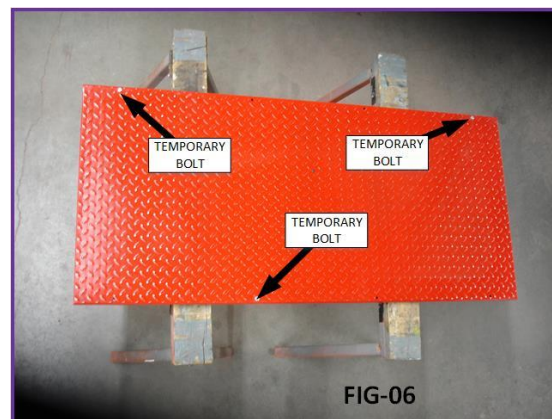


3. Place one load-cell and spacer on the underneath side of framework mount plate, as shown in FIG 03 and FIG 04. Spacer is to be placed between load-cell and floor framework. Assure arrow on load-cell is oriented in the correct direction. The correct orientation is ARROW POINTING TOWARD FRAME. Take (2) M6-1.0 SHCS bolts and secure load-cell in place as shown in FIG-05.

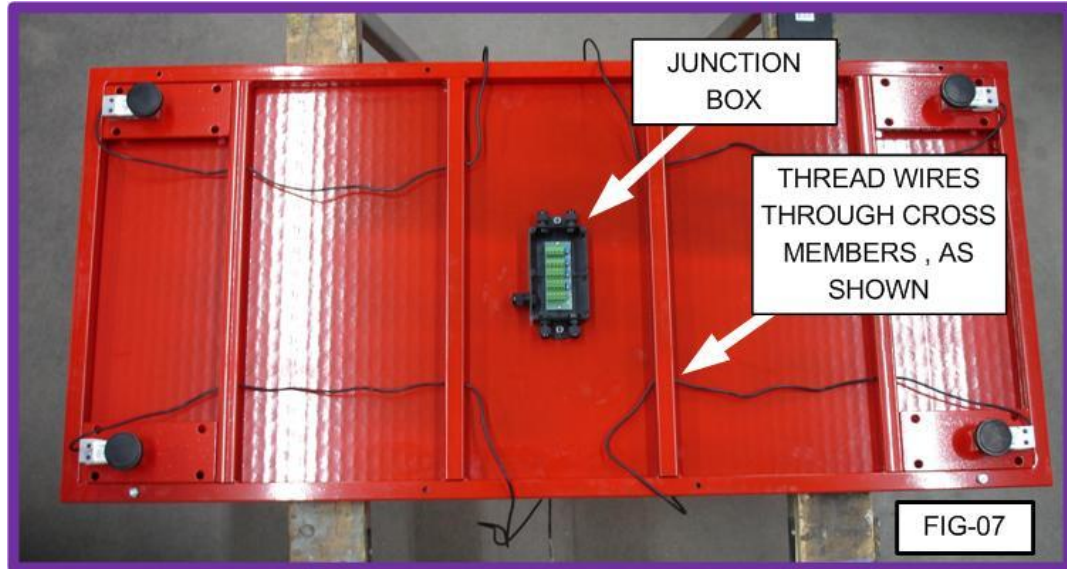
RECOMMENDATION: Prior to securing load-cell with bolts, apply a small amount of medium strength thread-locker, such as Loctite 242, to bolt threads. Do NOT use high strength or permanent type thread locker.



4. Repeat STEP 3 for remaining three load-cells.
5. Place the tread-plate floor pan onto the floor framework and temporarily secure with 3-each $\frac{1}{4}$ -20UNC x 1-1/2" bolts & nuts, as shown FIG-06. Hand-tighten acceptable.



6. Flip Floor pan assembly over (will now be in the upside down position) and attach Junction Box, in center, with 2-each #10-24UNC x 1/2" Long Button Head Socket Screws and lock nuts. Thread Load-cell wire(s) through holes on framework cross members, as shown in FIG-07.



7. Wire load-cells and Digital Weigh Indicator cord per diagram, "Wiring the Load Cells to the Junction Box," FIG-08 and FIG-09. Once complete, double check all wires to assure the color coding is correct and installation into the terminal block is satisfactory. Tighten all 5 wire grommet nuts. Place lid on Junction Box and secure with provided screws. Also verify that all 4 load cells are oriented in the correct direction with respect to the directional arrow on the end of the load cell. Each arrow on each load cell should be pointing towards scale base.



8. Bundle wires and zip-tie them together, as shown FIG-10, to eliminate the wires from dragging on ground during scale movement.



9. Flip Base assembly back over to the upright position. Prepare to install sides, doors and Digital Weigh Indicator. You may want to place assembly on floor at this point.
10. Remove the three (3) previously placed temporary bolts from base frame assembly. Position right side framework onto scale base, see FIG-11, and assemble with four (4), ¼-20 x 2-1/2" long bolts, lock washers, and nuts. **Hand tighten only.** Repeat Process for left side framework.



11. Position one (1) cross-member in place and assemble with two (2), $\frac{1}{4}$ -20 x 2-1/2" long bolts, lock washers, and nuts. **Hand-tighten only.** See FIG-12. Repeat process for second cross-member. Next, return to each bolt for each side (from previous step) and fully tighten. Fully tighten all bolts on cross-members. **NOTE:** If you purchased the accessory, LOOP BARS, for your scale, place loop bars on scale in lieu of cross-members at this step. Each LOOP BAR is assembled with four (4), $\frac{1}{4}$ -20 x 1-3/4" long Bolts, lock washers, and nuts.

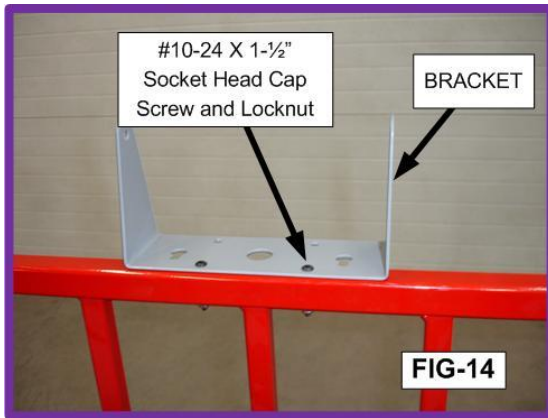


12. Obtain one door and one hinge rod and prepare to install door. Insert Door into frame rails and align holes. Insert Hinge Rod through the top of the frame and feed it down into door and out through bottom frame rail, as shown FIG-13. Verify door hinges freely. Close Door and latch in place. Repeat process for remaining door.



13. Now prepare to mount and install the Digital Weigh Indicator (DWI). Obtain the DWI bracket and locate the two (2) pre-drilled holes on one of the side frameworks. Install

bracket using two (2) #10-24 x 1-1/2" SHCS, and lock nuts. See Fig-14. Attach Digital Weigh Indicator as shown FIG-15



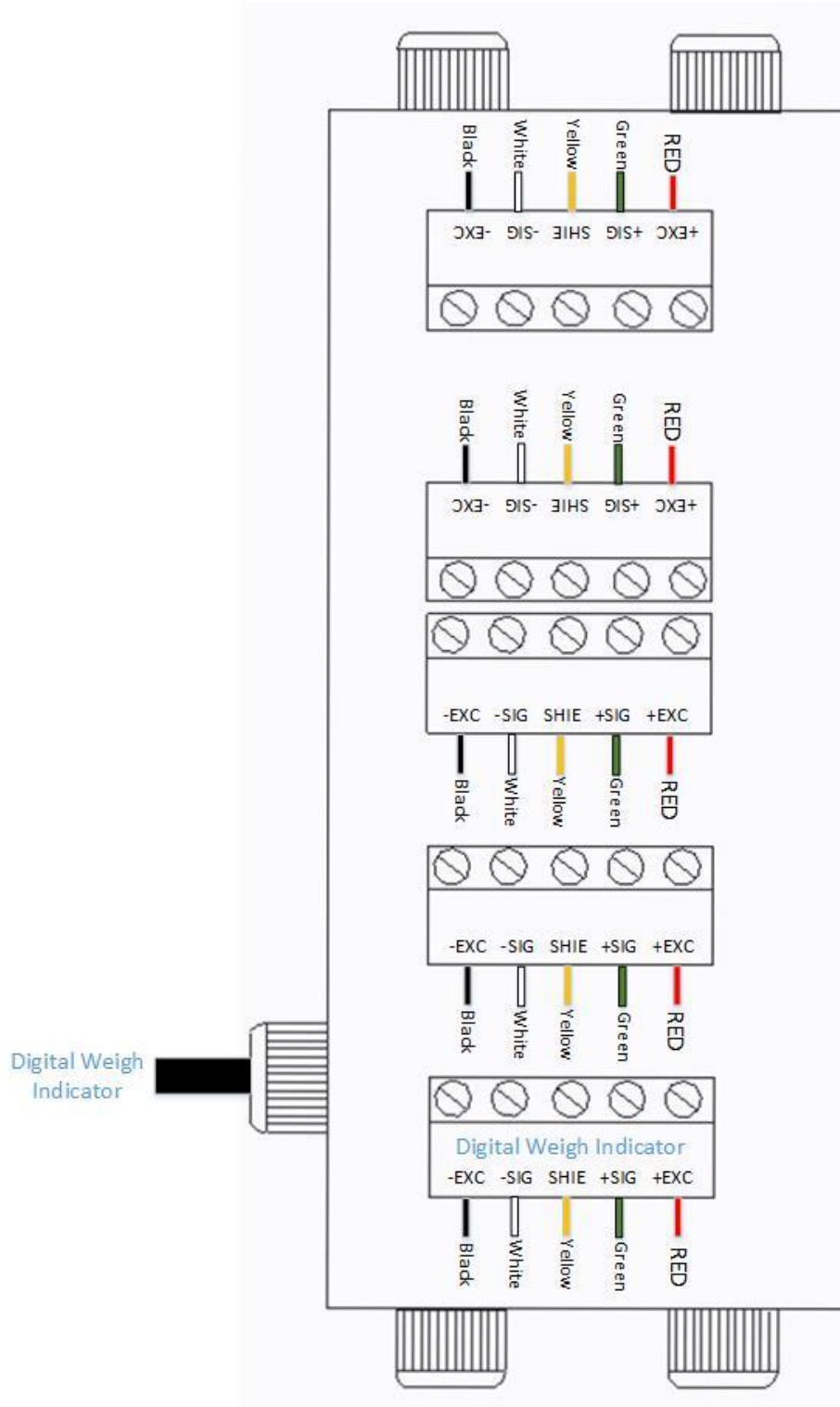
14. Firmly run the DWI cable, from the junction box, up the side of scale and zip tie in two places, as shown FIG-16. Take the remaining length of cable and wrap it around the DWI bracket, as shown FIG-16, and plug into DWI. The extra length of DWI cable is for remote mounting of DWI, if desired. Plug the power cord into the DWI and plug into an 110v receptacle and charge the internal battery.



15. Turn the scales on and follow the calibration procedure attached. Your scales are now ready for use.



WIRING THE LOAD CELLS TO THE JUNCTION BOX



1. Insert each load cell cable through watertight strain relief on the junction box.

2. There is one terminal strip for each load cell. Each terminal strip has five positions. The wiring color codes is as follows:
 +EX = RED
 +SIG=GREEN
 SHD/GND=YELLOW
 -SIG=WHITE
 -EX=BLACK

3. **IMPORTANT:** After inserting wire into terminal strip, make sure you can still see the bare wire. You do NOT want the plastic insulation inside the terminal strip.

FIG-08



QUICK CALIBRATION PROCEDURE

1. Turn on weigh indicator by pressing and **holding** the “ON” button for a few seconds
2. Wait for the indicator to finish counting down.
3. Press and hold the “ON/OFF” & “SET” keys simultaneously then release. “CO1” is displayed.
4. Press “ZERO” key until “CO5” is displayed
5. Press the “SET” key. “C5 0” will be displayed
6. Press the “ZERO” key. “C5 1” will be displayed
7. Make sure the scale platform is empty, then press the “SET” key.
8. The indicator will count down then “0” will be displayed.
9. Press the “SET” key. “C06” will be displayed.
10. Press the “SET” key. “C6 0” will be displayed.
11. Press the “ZERO” key. “C6 1” will be displayed.
12. Place known weight on the scale.
13. Press the “SET” key. Six digits will be displayed “000000” with a flashing digit.

Now we want to make the display show the same value as the known weight. For instance, if you put a 50-lb bag of feed on the scale, then you want the display to read 50.

14. Press the “HOLD” key to move the flashing digit and press the “ZERO” key to increase value of the digit.
15. After the display is showing the correct weight press the “SET” key.
16. The indicator will count down then show the weight of the object on the scale followed by “CALEND”
17. Quickly press & release the “ON/OFF” key to save the settings. Do NOT hold down the ON/OFF key or the display will turn off without saving the settings

CALIBRATION IS NOW COMPLETE!



ANIMAL WEIGH STABILIZATION FEATURE

Your scale is equipped with an *Animal Weigh Stabilization Mode* via the Digital Weigh Indicator (DWI). We recommend that you have the *Animal Weigh Stabilization Mode* enabled if you are weighing live animals. This feature aids in 'settling' out the weight and locking on a target weight more rapidly. This is function C11 on the DWI.

- (1) TURN SCALE ON
- (2) PRESS + SIMULTANEOUSLY
- (3) PRESS UNTIL **C09** IS SHOWING
- (4) PRESS TWICE, **C10** IS FLASHING
- (5) PRESS ONCE, **C11** IS FLASHING
- (6) PRESS ONCE, PRESS TO PUT ON "3" (Auto Lock)
- (7) PRESS DISPLAYS **C13**
- (8) PRESS TO SAVE

