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Important: Disconnect all indicator leads before charging battery or welding equipment. Damage may occur to indicator and load cells.
INDICATOR OVERVIEW

1. **press and hold to zero balance.**

2. **reweigh if scale is locked on.**

3. **press and hold for setup menu.**

4. **turns indicator on/off.**
5 Serial/Printer – Port used to communicate with computer and other digital input/output devices such as a printer.

6 Power – Port for Power Cord.

7 Load Cell – Port for load cell cord.

8 Load Cell – Port for load cell cord.
OPERATION

TURNING ON THE SCALE

1. Press \( \text{ON/OFF} \)

ZERO BALANCING

1. Press and hold \( \text{>0<} \) to zero balance.

WEIGHING ANIMALS

1. Place animal on platform. Indicator “Locks On” animal’s weight, “L” appears in upper left of display.
2. Release animal.
SELF TEST

1. Press \( \text{MENU} \) and within three seconds press \( \text{ON/OFF} \) to start self test.

2. Press \( >0< \) to exit test (except during key test).

OPTIONAL SETTINGS

CHANGE SETUP FOR LOAD CELLS.

1. Press and hold \( >0< \) and \( \text{ON/OFF} \) for long form setup menu.

2. Press \( \text{CHECK} \) to advance through selections

3. Press \( \text{ON/OFF} \) to set.

3300LB StockWeigh 3300 (pounds)
6600LB StockWeigh 6600 (pounds)
10K LB StockWeigh 10000 (pounds)
14K LB StockWeigh 14000 (pounds)
3300KG StockWeigh 3300 (kilograms)
6600KG StockWeigh 6600 (kilograms)
10K KG StockWeigh 10000 (kilograms)
14K KG StockWeigh 14000 (kilograms)
CUSTOM Any other load cell.
DETERMINING THE NEW CAL NUMBERS

1. Press and hold \( \leq 0 < \) to zero balance the scale.

2. Place a known weight on the scale (Example: 1000 LB test weight).

Perform the following calculation to find the new calibration number:

\[
\frac{\text{Known Weight}}{\text{Displayed Weight}} \times \text{Existing Calibration Number} = \text{Accurate Calibration Number}
\]

3. Press and hold \( \leq 0 < \) and \( \text{ON/OFF} \) to enter setup menu.

4. Press \( \text{RECHECK} \) to select Custom (see page 7).

5. Press \( \text{ON/OFF} \) indicator will display SETUP followed by the setup number.

6. Setup number does not change.

7. Press \( \text{ON/OFF} \) to advance to “Cal”.

8. Enter the new CAL # by pressing \( \leq 0 < \) to change the value of "flashing" digit and \( > 0 < \) to select which digit of display is flashing.

9. Press \( \text{ON/OFF} \) to store new calibration number.
CHANGE OPTIONS (USING LONG FORM SETUP)

To modify options in following chart:

1. Press and hold \( \text{MENU} \).
2. Press \( \text{CONFIRM} \) to change setting.
3. Press \( \text{ON/OFF} \) to save setting and advance to next menu item.
4. Press \( \text{MENU} \) to return to weighing mode.

<table>
<thead>
<tr>
<th>Setting/Display</th>
<th>Options (Bold = Default)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MENU 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language (LANGAG)</td>
<td>English (ENGLISH) Dutch (NEDERL) French (FRANCES) German (DEUTSH) Italian (ITAL) Portuguese (PORT) Spanish (ESPAN) Danish (DANSK) Hungarian (MAGYAR) Spanish (VESTA)</td>
<td>Select language to be displayed.</td>
</tr>
<tr>
<td>Zero Tracking (ZTRACK)</td>
<td>ON/OFF</td>
<td>Zero track adjusts to zero for build-up of snow and mud. If &quot;ON&quot;, the scale will adjust for small weight variances (+/- 5lbs) in the Lock-On weigh method.</td>
</tr>
<tr>
<td>Weigh Method (W MTHD)</td>
<td>1, 2, 3, 4</td>
<td>Select weigh method. See page 12.</td>
</tr>
<tr>
<td>Lock-On (LOCKON)</td>
<td>1-7, 8, 9</td>
<td>Use the lowest setting that still allows the system to lock on consistently. A low value allows the system to be more sensitive to animal motion. A high value allows the scale to lock on faster.</td>
</tr>
<tr>
<td>Lock-N-Hold (LKNHLD)</td>
<td>ON/OFF</td>
<td>Weight is held until next animal is weighed.</td>
</tr>
<tr>
<td>Setting/Display</td>
<td>Options (Bold = Default)</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>---------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Auto Off (AUTOFF)</td>
<td><strong>15, 30, 45, 60, OFF</strong></td>
<td>Indicator automatically shut OFF after specified time of inactivity.</td>
</tr>
<tr>
<td>Lock-On Store (LSTORE)</td>
<td><strong>OFF</strong></td>
<td>Sends data to computer port only when TAREAP or APRINT are set to “ON”.</td>
</tr>
<tr>
<td></td>
<td><strong>AUTOPRT</strong></td>
<td>Automatic Weight</td>
</tr>
<tr>
<td></td>
<td><strong>MANPRT</strong></td>
<td>Sends time, date and weight data to computer port when the scale “Locks-On” or when the animal steps off platform.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sends time, date and weight data to the computer port when operator presses (on/off).</td>
</tr>
<tr>
<td>Lock-On Store (LSTORE)</td>
<td><strong>ON/OFF</strong></td>
<td>Sends Time, Date and Weight data to the computer port when the scale locks-on or when the animal steps off the platform.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-Sends time, date and weight data to the computer port when operator presses (on/off).</td>
</tr>
<tr>
<td>Lock-On-Store Store Send (LSSEND)</td>
<td><strong>ON/OFF</strong></td>
<td>LSSEND is for LSTORE automatic modes and has no effect in manual modes. If set to “OFF”, data is sent when animal steps off the platform. If set to “ON”, data is sent as soon as the scale locks-on.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If set to “ON”, press (recheck) to recheck the weight and send new data to computer port.</td>
</tr>
<tr>
<td>Setting/Display</td>
<td>Options (Bold = Default)</td>
<td>Description</td>
</tr>
<tr>
<td>----------------</td>
<td>--------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>One Line Print (1LPRINT)</td>
<td><strong>ON/OFF</strong></td>
<td>ON formats printer output data on one line. OFF formats printer output data in two lines.</td>
</tr>
<tr>
<td>Scoreboard Mode (SCOREM)</td>
<td>1,2,3,4,5,6</td>
<td>Methods to continuously output display data to a scoreboard via the com port. See page 17.</td>
</tr>
<tr>
<td>Auto Print (APRINT)</td>
<td><strong>ON/OFF</strong></td>
<td>Weight value printed automatically.</td>
</tr>
<tr>
<td>Com In (CON IN)</td>
<td>DOWNLD, EZ CMD, EZ2CMD</td>
<td>Com port interface selections DOWNLD for Data Down Loader, EZ CMD = Original EZ Commands, EZ2CMD = EZII Escape Commands.</td>
</tr>
<tr>
<td>Print Format (PRTFMT)</td>
<td><strong>AUTO, WTONLY, DOWNLD, DT+TM, ID+TM, IDWTM, ANIMAL</strong></td>
<td>See page 18.</td>
</tr>
<tr>
<td>Com 1 Delay (C1 DLY)</td>
<td>OFF, .10, .25, .50, .75, 1-5</td>
<td>Choose the number of seconds the printer will delay before advancing to the next print line.</td>
</tr>
<tr>
<td>Com 2 Delay (C2 DLY)</td>
<td>Not Used.</td>
<td></td>
</tr>
<tr>
<td>Display Count (COUNT)</td>
<td>.01,.02,.05,.1,.2,.5,.1, 2.5,10,20, 50,100</td>
<td>Indicator display count. If the counts are too small, the reading will show more instability.</td>
</tr>
<tr>
<td>Auto-Range (ARANGE)</td>
<td><strong>ON/OFF</strong></td>
<td>Increases display count size for weights over 300 and again at 600 lbs/kgs.</td>
</tr>
<tr>
<td>Display Unit (LB-KG)</td>
<td><strong>LB/KG</strong></td>
<td>Display units.</td>
</tr>
<tr>
<td>Capacity (CAP)</td>
<td><strong>4000</strong></td>
<td>Enter MAXIMUM weight measurable on scale.</td>
</tr>
</tbody>
</table>
WEIGH METHODS

Select weigh method #4 for animal weighing. When weighing dead loads, you can still use the Lock-On Weigh method but you may wish to use one of the other methods listed below.

GENERAL WEIGH METHOD

All-purpose weigh method for weighing dead loads. It is used for most applications.

SLOW WEIGH METHOD

Attempts to provide higher accuracy by filtering many weight samples over a longer period. Use for weighing dead loads.

FAST WEIGH METHOD

The Fast weigh method is more sensitive to weight changes than the other weigh methods. When a weight changes quickly, the Fast method tries to determine the new weight as quickly as possible. This method is for weighing dead loads.

LOCK-ON WEIGH METHOD

Weighs active animals and displays stable accurate weight. Lock-On sensitivity adjusted using “LOCKON” menu.

- Once actual weight is displayed, scale “Locks-On” to weight.
- Weight is displayed stable, even if motion never stops.
- Small ‘L’ appears on left side of display indicating weight “Locked-On.”
- Animal’s weight must be greater than 0.67% of scales “capacity” weight before system can “Lock-On.”

Note: Customers should use a weight value for Zero Tracking (ZTRACK) that is less than 0.67% of capacity.

To break lock, add or remove preset percentage of displayed weight. The default setting is 50%.

- The weight value that is used to “break the lock” and return to normal weighing can be selected by choosing a value from 01 to 99%. For example, if unlock is set to 10(%) and weight is locked at 1000, display will “unlock” and return to normal weighing at 900, once 10% (100) is removed.
- “Locked-On” weight can be “rechecked”, pressing breaks “lock” and scale recalculates weight.
**WEIGHING ERRORS**

**OVERCAP** Over Capacity Limit
The display shows the message “OVRCAP” if the weight on scale system exceeds capacity limit.

**+RANGE** Over Range –
The display shows message "+RANGE" if weight on the scale system is less than the maximum weight measurable by scale system.

**-RANGE** Under Range
The display shows message "-RANGE" if the weight on the scale system is less than the minimum weight measurable by the scale system.

**LO BAT** Low Battery Indication
If the supply voltage drops below the (10.5 Volts), the message ‘RECHARGE BATTERY – TURNING OFF” and “LO BAT” will periodically show on the display to alert the operator of the low battery condition.

---

**Warning!**
Disconnect the indicator power cord before jump-starting or fast charging a battery.
Disconnect all indicator leads before welding on equipment. Damage may occur to the indicator and load cells.
**STOCKWEIGH LOAD CELLS**

**Load Cells with Connectors:**

<table>
<thead>
<tr>
<th>Length</th>
<th>Model 3300</th>
<th>Model 6600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>148042</td>
<td>146769</td>
</tr>
<tr>
<td>Part Number</td>
<td>400144</td>
<td>400058</td>
</tr>
<tr>
<td>Part Number</td>
<td>400006</td>
<td>400006</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length</th>
<th>Model 3300</th>
<th>Model 6600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>403481</td>
<td>403482</td>
</tr>
<tr>
<td>Part Number</td>
<td>403483</td>
<td>403484</td>
</tr>
<tr>
<td>Part Number</td>
<td>403485</td>
<td>403485</td>
</tr>
</tbody>
</table>

**STOCKWEIGH LOAD CELL SPECIFICATIONS**

**GROSS CAPACITY**
- Model 3300: 3300 lbs. Maximum
- Model 6600: 6600 lbs. Maximum

**ACCURACY:**
±1% and ±Display Increment

**OVERALL DIMENSIONS**
- Model 3300: 3-3/4” H x 8-1/4” W x 16, 24 & 33-1/2” L
- Model 6600: 3-3/4” H x 8-1/4” W x 33-1/2 & 44” L

**Load Cell Cable Length:** 14 Feet

**RESOLUTION (FOR BOTH MODELS)**
- Increment/Range
  - 1 lbs or kgs  0-300 lbs or kgs
  - 2 lbs or kgs  300-600 lbs or kgs
  - 5 lbs or kgs  600 lbs or kgs

**POWER REQUIREMENTS:**
- 12-14 VDC @ approx 1 Amp

**AC TO DC CONVERTER**
- 110 VAC to 13.8 VDC @ 1.2 Amps
LOAD CELL DIMENSIONS

Model 3300

Model 6600

D3656 15
StockWeigh Alley Platform
PN 403360

120 Volt AC/12 Volt DC Power Converter
PN 403526
SCOREBOARD METHODS

Scoreboard methods 1 through 6 are used for the Stock Weigh 600. Many other scoreboard methods are available but are not used.

1. Transmit numeric display data once per second.
2. Transmit numeric display data two times per second.
3. Transmit numeric display data three times per second.
4. Transmit numeric display data at the A-D conversion rate.
5. Transmit numeric display data at the display rate.
6. Transmit numeric display data whenever there is a display weight change.

NOTES: When using SCOREM = 1, 2, 3, 4, 5 and 6 be sure to set LSTORE = OFF, TAREAP = OFF and APRINT = OFF to avoid corrupted data when transmitting scoreboard data and printing scale data.

With COM IN set to EZ2CMD the port configuration is: 9600 Baud, 1 start bit, 7 data bits, 1 even parity bit and 1 stop bit.

With COM IN set to EZCMD the port configuration is: 1200 Baud, 1 start bit, 7 data bits, 1 even parity bit and 1 stop bit.
PRINT FORMATS

PRTFMT is active when “LSTORE” is set to “OFF”, “MANPRT” or “AUTPRT”. Following is a detailed explanation of the print formats that are available on the StockWeigh 600. Some are Comma Separated Values (CSV) that make it easier to input scale data into PC Spreadsheet and Data Base programs.

NOTE: The appearance of the printouts may be affected by the option settings of 1L PRT, TIME F and DATE F.

AUTO If “LSTORE” is set to “MANPRT” or “AUTPRT” and “PRTFMT” is set to “AUTO”, the standard EZ Indicator print format will be used.
Print example:
09MR04 10:15
880LB$GR

WONLY Includes weight, display unit, $' if unit is "locked on", weight tag (GR, M+, etc.).
Ends with a <CR>,<LF>. Print example:
635LB$GR

DOWNLD This format is compatible with the original Downloader. Includes weight, display unit, $'if unit is "locked on", weight tag (GR, M+, etc.) date and time.

DT+TM This CSV format includes weight, display unit, $'if unit is "locked on", weight tag (GR, M+, etc...) and date.
Ends with a <CR>,<LF>.
Print example:
"610,LB, ,GR,13MR02,11:08"

ID+TM This CSV format includes ID, weight, display unit, $'if unit is "locked on", weight tag (GR, M+, etc...) and time.
Ends with a <CR>,<LF>.
Print example:
" ,0,LB, ,GR,11:08"

IDWTMM This CSV format includes ID, weight, display unit, $'if unit is "locked on", weight tag (GR, M+, etc...), date and time.
Ends with a <CR>,<LF>.
Print example:
"FARM 1, 16090,LB, ,GR,27JA00,10:37P"
ANIMAL This CSV format includes information for animal weighing. Includes "$ if unit is "locked-on" weight, weight tag (GR, M+, etc...), display unit, Memory Weight (RM), Average Count (Number of times M+ key was pressed), Average Weight, Gross weight on scale, ID, date and time. Ends with a <CR>,<LF>. Print example:
"," 1400,GR, LB, 2180, 4, 545, 1400, ,11:09, 13MR02"
TROUBLESHOOTING GUIDE

Does the indicator turn on?

YES

Does the indicator respond when you step on the scale?

YES

Does the scale weigh you close to your weight?

YES

NO

Check for debris around and under the platform and load cells. Check for warped or damaged mounts on platform.

NO

Check or replace batteries. Check for 12VDC at the AC/DC converter power cord. If you do not have a multi-meter, use a car battery to power the scale. If the indicator still does not come on, send it in for repair.

NO

Check for debris under or around the scale mounts or platform. Check the load cell cables for cuts and flattened areas.

See Troubleshooting on Page 21.

See Troubleshooting on Page 21.
Indicator Does Not Respond When You Step on the Scale

Disconnect one of the load cells and stand over the connected load cell. Does the indicator display a reading about twice your weight?

**YES**

The other load cell is defective. Check its cable for cuts or flattened areas or send it back for repair. Check the defective load cell by connecting it to the indicator and verify that it does not weigh.

**NO**

Disconnect the first load cell and connect the other load cell to the same connector on the indicator. Does the indicator display a reading about twice your weight?

**YES**

The other load cell is defective. Check its cable for cuts or flattened areas and send it back for repair.

**NO**

Perform the paper clip test. Take two paper clips and carefully insert one into pin 2 and the other in pin 3 of either load cell connector jack on the indicator. Hold one paper clip in each hand (if the touch it will not damage the indicator). Does the reading on the indicator jump around?

**YES**

Both load cells are defective. The indicator is probably OK. Check the cables for damage and send both load cells in for repair.

**NO**

The indicator is defective. Send it in for repair. **Note:** Load cells may also be defective. Check the load cells by attaching to a good working indicator.
The Scale Weighs Close to Your Weight

Disconnect one load cell cable from the indicator. Press the indicator “ZERO” button. (The indicator display should go to zero). Stand on the load cell. Does the indicator display a reading about twice your weight?

YES

This load cell is OK. Disconnect the first load cell and connect the other load cell to the same connector. Now stand over the second load cell. Does it weigh twice your weight?

YES

The other load cell is defective. Check its cable for cuts or flattened areas and send it back for repair. Double check the indicator using a known good load cell.

NO

This load cell is defective. Check its cable for cuts or flattened areas or send it back for repair. Double check the indicator using a known good load cell.

NO

Connect the load cell to the other connector on the indicator. Stand on the load cell. Does it display approximately twice your weight?

YES

Check the platform for debris and mud interference. Check mounts for binding and obstructions.

NO

The indicator is defective. Verify this by substituting a good working indicator.

YES

Do both load cells weigh you about the same but not within 20% of twice your weight?

YES

One of the load cells is bad. A good load cell will weigh you at approximately twice your weight with only one load cell connected.

NO

Connect both load cells (one at a time) to the connector on the indicator. Do both load cells weigh you about twice your weight?

YES

NO
INSTALLATION

Indicator Mounting

<table>
<thead>
<tr>
<th>KEY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>403769</td>
<td>BRACKET – STR TOP MOUNT</td>
</tr>
<tr>
<td>B</td>
<td>403980</td>
<td>BRACKET – ROBO MOUNTING</td>
</tr>
<tr>
<td>C</td>
<td>403770</td>
<td>BRACKET – WING MOUNT</td>
</tr>
<tr>
<td>D</td>
<td>405069</td>
<td>U-BOLT, 1/4-20 X 3.25 ZP</td>
</tr>
<tr>
<td>E</td>
<td>403771</td>
<td>MODIFIED PLASTIC WEDGE MOUNT</td>
</tr>
<tr>
<td>F</td>
<td>405124</td>
<td>WEDGE MOUNT BRACKET, INCLUDES U-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BOLTS &amp; NUTS</td>
</tr>
<tr>
<td>G</td>
<td>405084</td>
<td>NUT, 1/4-20 TOP LOCKING FLANGE</td>
</tr>
</tbody>
</table>

Optional Ram Mounting

<table>
<thead>
<tr>
<th>KEY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>403180</td>
<td>RAM MOUNT</td>
</tr>
<tr>
<td>B</td>
<td>403179</td>
<td>MOUNT BASE-1&quot; BALL U-BOLT</td>
</tr>
<tr>
<td>C</td>
<td>404230</td>
<td>RAM SUCTION CUP W/TWIST LOCK</td>
</tr>
</tbody>
</table>
LOAD CELL CONNECTION

Connect load cell wires to terminal blocks. See Wire Color Key

<table>
<thead>
<tr>
<th>Wire Color Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

J-Box Illustrated for 4 Load Cell Installation

Tighten nuts

Load cell cable

Connect to Indicator bottom panel.

J-Box Cable