

Scale Calibration



WARNING: Procedures described require work inside the scale enclosure. These procedures are to be performed by qualified service personnel only.




Manuals and additional resources are available from Rice Lake Weighing Systems at www.ricelake.com/manuals

Warranty information can be found at www.ricelake.com/warranties

Weight Calibration

Follow the steps below to complete the calibration process.

1. Turn on the scale while pressing  until the WEIGHT display shows 7. 4 for the firmware version.





NOTE: On legacy RS-130/160 models, the WEIGHT display shows 5. 3 for the firmware version.

2. Press and hold  until *SETUP* displays.
3. Press  to enter calibration mode. The WEIGHT display flashes *CAL - 1* and then *Unit 1* displays.



NOTE: The WEIGHT display does not flash CAL-1 if jumper JP1 is in the disabled position. See [Set JP1 Jumper](#) if the WEIGHT display does not flash CAL-1.

4. Press  to select the weight unit (default is kg) to be used for calibration. An arrow displays over the selected unit.
 - Unit 1 - kg
 - Unit 2 - lb
 - Unit 3 - oz (not available in Canada)
5. Press  to accept the weight unit. The UNIT PRICE display shows:
 - 000. 000 - kg
 - 0000. 00 - lb
 - 00000. 0 - oz (not available in Canada)



NOTE: On legacy RS-130/160 models with firmware version 6.3, weight value entry is on the WEIGHT display and appears with 5 digits rather than 6.

6. Press  to move between digits and press  to change the flashing digit to match the scale capacity weight that will be used to calibrate the scale.

Example:

For a 30 x 0.01 lb scale, use a 30 lb standard weight to calibrate; press  to shift the flashing digit to

0000. 00 and press  to set the digit to 0030. 00.




IMPORTANT: Full capacity weight is required for calibration.

- Remove all weight from the scale and press **CHANGE**. Wait for the WEIGHT display to show *on* / and the UNIT PRICE display to show the internal offset value. The internal offset value is zero when no weight is on the scale.

 **NOTE:** For legacy RS-130/160 models with firmware version 6.3, the WEIGHT display shows the internal offset value.

- Place full capacity weight, that was configured in [Step 6](#), on the scale platter.
- Wait for the internal offset value to stabilize, then press **CHANGE**.

 **NOTE:** For legacy RS-130/160 models with firmware version 6.3, after pressing **CHANGE**, the WEIGHT display flashes good twice. Quickly remove the weight from the platter during the automatic restart, so scale can properly zero during start up. Calibration process is finished for legacy RS-130/160 models.

- Wait for the WEIGHT display to show *on* and UNIT PRICE display to show *0000.00*, then remove the weight from the scale platter.
- Press **ZERO** and wait for the WEIGHT display to flash *Good* twice. The scale performs an automatic restart, and the calibration process is finished.
- Disable JP1 to maintain the NTEP approval, if needed.

Set JP1 Jumper

Follow the steps below to set JP1 to the enable or disable position.

- Power off scale.
- Remove platter and plastic in-use cover.
- Remove lead-seal located in the center of the base.
- Remove the four screws from the base of the scale.
- Lift the cover away from the base toward the operator side.

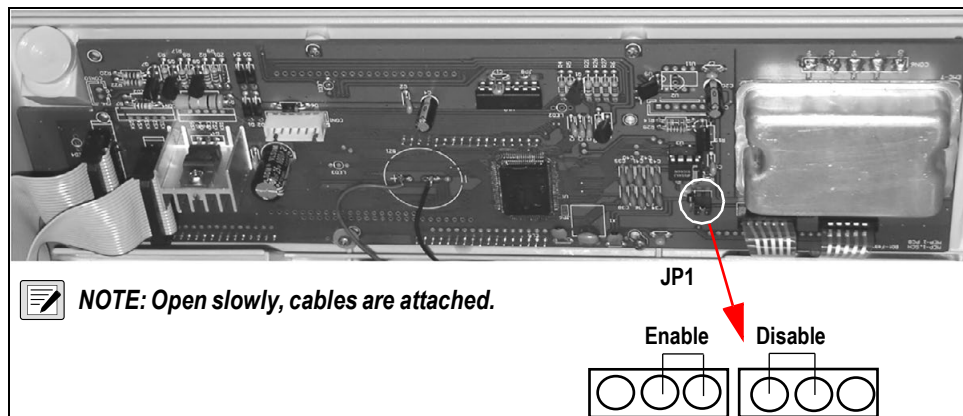


Figure 1. Jumper JP1 Location

Follow the steps below to reassemble the scale.

1. Place the cover on top of the base, ensuring that the sealing pin is aligned with the sealing pin hole in the base.
2. Tighten the four screws into the base of the scale.
3. Replace the lead seal in the center of the base over the sealing pin.
4. Replace the platter and plastic in-use cover.

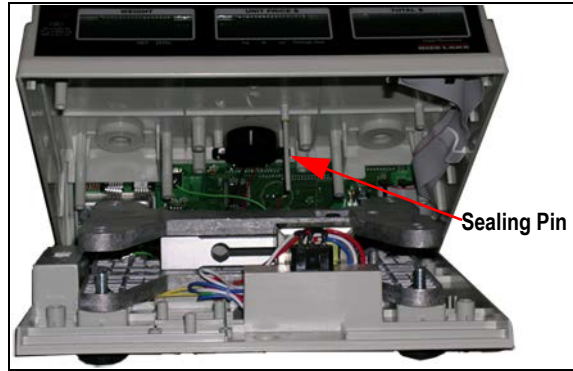



Figure 2. Sealing Pin




Simulate No Power Display

A dealer can use this function to show a user when the scales needs charging.

1. Turn on the scale while pressing  until 7. 4 displays (approximately three seconds).



NOTE: Older RS-130/RS-160 Models with the WEIGHT display will show 5. 3.

2. Press and hold  until 5E LUP displays (approximately three seconds).
3. Press , USUPL displays.
4. Press , -0. 00- displays in WEIGHT, -0. 00- displays in UNIT PRICE \$, L0- displays in TOTAL \$.



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