



CS 100 Charging Scale (P/N 2010-0000) Calibration Instructions

Instruction 2010-9000
Rev. 0 – June 2006

This instruction sheet contains two calibration procedures for the CS 100 Charging Scale. Look at Figures A and B, and then perform the appropriate procedure.

If the display case of your scale looks like Figure A, then perform the Calibration Procedure for TYPE “A” Charging Scales.



Figure A

If the display case of your scale looks like Figure B, then perform the Calibration Procedure for TYPE “B” Charging Scales.



Figure B

Calibration Procedure for TYPE “A” Charging Scales

NOTE 1: IMPORTANT, PLEASE NOTE! Calibration MUST be performed using an 80 kg (176.4 lb) weight standard with an accuracy of ± 0.057 kg ($\pm 1/8$ lb). **No other weight is acceptable!**

NOTE 2: If an error occurs at any time during calibration, turn the unit OFF and remove the battery for at least 20 seconds.

1. Press the **ON** key and then immediately press the **UNIT** and **TARE** keys together. The unit will not progress through the segment check routine, but will display “SET-1.” If the unit enters the segment check routine, then turn the unit **OFF** and start over.
2. Press **UNIT**. The text “SET-11” will appear.
3. Press **UNIT** again. A number within the range of 5000 to 6500 should appear. If the displayed number does not fall within that range, then open the display case and adjust VR1 (100K potentiometer on the circuit board) until the displayed number falls within the specified range.
4. Press **TARE**. The text “ZERO” will flash at the bottom left of the display.
5. Apply calibration weight. Refer to NOTE 1 above.
6. Press **UNIT**. The text “TARE” will flash at the bottom left of the display.
7. Press the **UNIT** and **TARE** buttons together. The unit must progress through the segment check routine, and then display “0.000” and the text “ZERO” at the bottom left of the display. Repeat this step if necessary.
8. Remove calibration weight. The display MUST show a value of -80 ± 0.2 kg. If not, refer to NOTE 2 above and re-perform this procedure starting at Step 1.
9. Press the **UNIT** and **TARE** buttons together.
10. Press **TARE**. The display should show “0.000” along with the text “ZERO” at the bottom left of the display.
11. Place any known test weight on the scale to verify calibration. Remember to press the **UNIT** button for correct unit of measure for the weight applied.
12. This completes the calibration procedure. Press **OFF**.

Calibration Procedure for TYPE “B” Charging Scales

NOTE 1: IMPORTANT, PLEASE NOTE! Calibration must be performed using a calibrated or known weight standard of between 4.5 and 100 kg (10 and 220 lb) with an accuracy of ± 0.057 kg ($\pm 1/8$ lb).

NOTE 2: If an error occurs at any time during calibration, turn the unit OFF and remove the battery for at least 20 seconds.

1. Press and hold the **UNIT** and **TARE** buttons. While holding both of those buttons, press the **ON** button and release it while continuing to hold both the **UNIT** and **TARE** buttons. Hold both buttons until the text “SET-1” appears.
2. Press **UNIT**. The text “SET-11” will appear.
3. Press **UNIT** again. The text “CAL” will appear for a short period of time, followed by a number that should fall within the range of 5000 to 6500. If the displayed number does not fall within that range, then open the display case (2 screws visible on the back, and 2 screws accessed by removing the battery door) and adjust VR1 (100K potentiometer on the circuit board) until the displayed number falls within the specified range.
4. Press **TARE**. The text “ZERO” will appear in the bottom left of the display.
5. Place weight standard on the platform. Refer to NOTE 1 above.
6. Press **UNIT**. The text “GOOD” should appear for a short period of time.
7. A number will then appear on the screen with its rightmost digit flashing. Enter the weight of the calibration standard by using the **TARE** button to adjust the value of the digits and the **UNIT** button to move between digits.

IMPORTANT! The weight of the standard must be entered in kilograms. To convert pounds to kilograms, multiply by a factor 0.45. (For example: 20 lb x 0.45 = 9 kg.)

8. After the correct value has been entered, press and hold the **UNIT** and **TARE** buttons simultaneously until the text “GOOD” appears followed by the text “SET-12.” Turn the unit **OFF** and remove the standard weight. The scale is now calibrated.
9. Turn the unit back **ON** and place any known test weight on the scale to verify calibration. Remember to press the **UNIT** button for correct unit of measure for the weight applied.
10. This completes the calibration procedure. Press **OFF**.

Bacharach, Inc.

621 Hunt Valley Circle, New Kensington, PA 15068
PH: 724-334-5000 • Toll Free: 800-736-4666 • FAX: 724-334-5001
Website: www.bacharach-inc.com • E-mail: help@bacharach-inc.com