



Industrial Weighing Systems

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This document shows calibration instructions extracted from Manuals we have on file that may not necessarily match your current model.

For your reference only.

IWSystems provides repair services to instruments and load cells

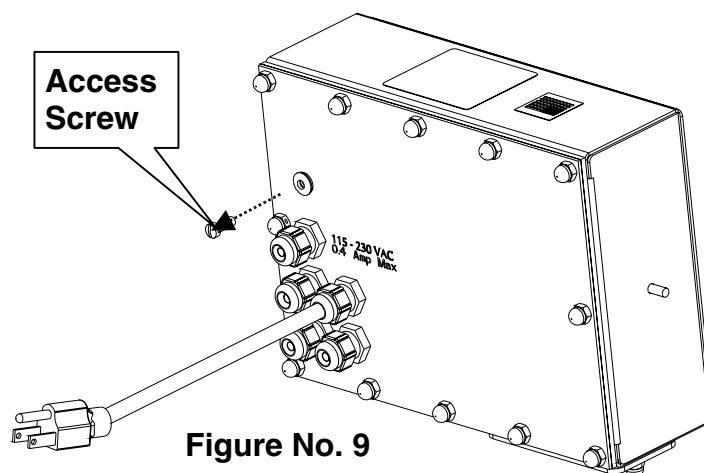
On site calibrations

For additional information please contact us.

SETUP AND CALIBRATION

Your 205/210 indicator has been thoroughly tested and calibrated before being shipped to you. If you received the indicator attached to a scale, calibration is not necessary. If the indicator is being connected to a scale for the first time or recalibration is necessary for other reasons, proceed as indicated.

The calibration switch is located on a bracket on the inside of the enclosure rear panel. You may gain access to this switch simply by removing the calibration switch access screw on the rear panel. Refer to Figure No. 9.



MODEL 205

*During the setup and calibration process it will be necessary to enter operational parameters via the 205 keypad. Pressing the **TARE/ENTER** key (performs the same function as the **ENTER** key on the 210) will cause the data entered or displayed to be retained and the 205 to advance to the next prompt. The functions of the numeric keys are replaced by using the **UNITS/LEFT ARROW** and the **ASTERISK/UP ARROW** keys. The cursor location is identified by the blinking character and can be advanced to the left to the next position by pressing the **UNITS/LEFT ARROW** key. Pressing the **ASTERISK/UP ARROW** key will change the blinking character to the next value. Continue to press this key to "toggle" between the different available values for the setup parameter. Pressing the **ASTERISK** key when a setup parameter (not a parameter value) is displayed, will "backup" to the previous prompt.*

MODEL 210

*During the setup and calibration process it is necessary to enter operational parameters via the 210's keypad. Pressing the **ENTER** key without entering a new value will retain the current setting and advance the 210 to the next prompt. To change a setting, enter a new value and press the **ENTER** key. This will save the new value and advance the 210 to the next prompt. Pressing the **ASTERISK** key will "backup" to the previous prompt.*



CAUTION: The membrane keypad is not to be operated with pointed objects (pencils, pens, fingernails, etc). Damage to keypad resulting from this practice will NOT be covered under warranty.

Enter Setup Mode

To enter the setup mode, with the indicator ON, insert a small screwdriver or other tool through the calibration switch access hole on the rear panel. Press and release the calibration switch. The menu SetUP will be displayed. Continue to press and release the switch to rotate through the beginning point for entering the setup mode.

SetUP	Setup Mode (starts at USA prompt)
A-d	Analog to Digital Filtering (starts at dFLt= prompt)
CAL	Calibration (starts at CAL1 prompt)
Sio	Serial Input/Output (starts at BAUD prompt)
Print	Print Tab Settings (starts at PORT prompt)
F SPAn	Fine Span Adjustment
Hi rES	Display high resolution weight mode
LoCoUt	Key lock out function
dAC	Digital to Analog Converter (If DAC board is installed, Calibration of 10 volt or 4 to 20 mA Analog Output)

If you press the **ENTER** key at the SetUP prompt, you may proceed through to the next section (up to and including fSPAn) by pressing the **ENTER** key.

SETUP AND CALIBRATION, Cont.



NOTE! Setup may be interrupted at any time. **ALL** data previously entered and finalized with the **ENTER** key will be retained in the non-volatile memory.

Pressing the calibration switch *at any prompt* will return you to the SEtUP menu. To exit setup, press the **ASTERISK** key with any of the above menu selections displayed or cycle power at any time (press the **ON/OFF** key twice).

NOTE! With the exception of the SEtUP prompt, the prompts displayed for each section are different if you push the calibration switch instead of pressing the **ENTER** key to proceed through the section. *For example*, if you press the calibration switch with the SEtUP displayed, the next prompt displayed will be A-d. If you step through the setup prompts by pressing the **ENTER** key, the next prompt displayed will be A-d?. In addition, at a prompt with the ? displayed, you must press the **ENTER** key, the **1/YES** key then the **ENTER** key again to proceed with that section. To skip the section and advance you to the next menu selection, press the **ENTER** key twice.

SEtUP

USA (domestic or international)

With SEtUP displayed, press the **ENTER** key. The display will change to USA=. Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, using the numeric keys, **0/NO** or **1/YES**, enter the new setting, then press the **ENTER** key to save it.

USA = 1 (Domestic)

Date = mm/dd/yy
Trl = no
Cap + 4% to OC

USA = 0 (International)

Date = dd/mm/yy
Trl = yes
Cap + 9 grads to OC
PT printed with tare
Lamp test on power up

LfT (Legal For Trade)

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, using the numeric keys, **0/NO** or **1/YES**, enter the new setting, then press the **ENTER** key to save it.

LfT = 1

Interval Settings (Int=) allowed
are: 1, 2, 5, 10, 20, 50

LfT = 0

Interval Setting (Int=) is
selectable from 1 to 99.

NOTE! When both *LfT=1 and USA=1*, the followings results occur:

Scale must have between 100 and 10,000 divisions
Tra = .5 or 0 to 3
Inhibit serial data during input
Disables **COUNT** key
Date = mm/dd/yy
Trl = no
Cap + 4% to OC

NOTE! When *LfT=1 and USA=0*, the followings results occur:

Uns = 1
Date = dd/mm/yy
Trl = yes
Cap + 9 grads to OC
PT printed with tare
Lamp test on power up

SETUP AND CALIBRATION, Cont.

Unit1= (Weighing Unit 1)

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, using the numeric keys enter the new setting, then press the **ENTER** key to save it. Allowable values are:

0 = none	4 = oz (ounces)
1 = tn (tons)	5 = kg (kilograms)
2 = g (grams)	6 = tonnes (metric tons)
3 = lb (pounds)	7 = lb/oz (pounds/ounces)

Int= (Interval Setting)

Press the **ENTER** key to show the current value.

If LFt = 1 (Legal For Trade = YES), using the numeric keys enter the new setting, then press the **ENTER** key to save it. Allowable values are: 1, 2, 5, 10, 20 or 50.

If LFt=0 (Legal For Trade = NO), using the numeric keys enter the new setting, then press the **ENTER** key to save it. Allowable values are: 1 through 99.

In either case, if the setting displayed is acceptable, press the **ENTER** key again it.

dPP= (Decimal Point Setting)

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, using the numeric keys enter the new setting, then press the **ENTER** key to save it. Allowable values are: 0, 1, 2 or 3.

0 = XXXXXX	2 = XXXX.XX
1 = XXXXX.X	3 = XXX.XXX

CAP= (Capacity)

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, using the numeric keys enter the new setting, then press the **ENTER** key to save it. Allowable values are: 1 through 999,999.

NOTE! Capacity cannot exceed 999,999.

Unit2= (Weighing Unit 2)

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, using the numeric keys enter the new setting, then press the **ENTER** key to save it. Allowable values are:

0 = none	4 = oz (ounces)
1 = tn (tons)	5 = kg (kilograms)
2 = g (grams)	6 = tonnes (metric tons)
3 = lb (pounds)	7 = lb/oz (pounds/ounces)



NOTE! The selection for Unit2 can not be the same as Unit1. In addition, dependent upon the selection for Unit1 and the interval and decimal point settings, not all unit combinations are available.

trA= (Zero Tracking Range)

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, using the numeric keys enter the new setting, then press the **ENTER** key to save it. Allowable values are: 0 (disables Zero Tracking), .5, or 1 through 9.

SETUP AND CALIBRATION, Cont.

trL= (4% Zero Range)

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, using the numeric keys, **0/NO** or **1/YES**, enter the new setting, then press the **ENTER** key to save it.

trL = 1 (Yes)

4% of scale capacity

trL = 0 (No)

Full capacity (no limit)

PUO= (Power-Up Zero Feature)

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, using the numeric keys, **0/NO** or **1/YES**, enter the new setting, then press the **ENTER** key to save it.

PUO = 1 (Yes)

Automatic Re-Zero on Power-Up

PUO = 0 (No)

No Re-Zero on Power-Up

td= (12 or 24 Time Format) - Model 210 Only

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, use the numeric keys to select the format (12 or 24 hour) of the Model 210 clock operation, then press the **ENTER** key to save it. Note that in the 24 hour format, 12 is added to all times after noon, i.e. 3 PM would be 1500.

td = 12

12 hour clock (3PM displays 3:00)

td = 24

24 hour clock (3PM displays 15:00)

d oUt= X,Y (Digital Output) - Model 210 Only

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, use the numeric keys to select the X,Y values for the digital output, then press the **ENTER** key to save it.

d out= X, Y

where: X = State below cutoff (0 = LOW, 1 = High)
Y = Preset Number or Checkweigher Mode

0 = Digital Output is disabled

1 = Low State before cutoff with 1 active Preset

2 = Low State before cutoff with 2 active Presets

3 = Low State before cutoff with 3 active Presets

11 = High state before cutoff with 1 active Preset

12 = High state before cutoff with 2 active Presets

13 = High state before cutoff with 3 active Presets

4 = Low State before cutoff on Checkweigher Mode

14 = High state before cutoff on Checkweigher Mode

P-bAL= (Preset Print-On-Balance)

With only one Preset selected (d OUt= 1 or 11), an additional prompt P-bAL= (automatic Print on Balance) will be displayed. If selected (P-bAL=YES), when the weight equals (or is above) the preset value and all motion stops, the weight will be printed (if a printer is attached). Note, that the weight must go below 50% of the preset value before another print operation can be performed.

If the setting displayed is acceptable, press the **ENTER** key to save it. Otherwise, using the numeric keys, **0/NO** or **1/YES**, enter the new setting, then press the **ENTER** key to save it.

P-bAL = 1 (Yes)

Automatic Print on Balance
Enabled

P-bAL = 0 (No)

Automatic Print on Balance
Disabled

SETUP AND CALIBRATION, Cont.

P-bAL= (Checkweigher Print-On-Accept)

With Checkweigher selected (dOUt= 4 or 14), an additional prompt P bAL, Print on Balance, (automatic print on accept) will be displayed. If selected (P-bAL=YES), when the scale weight is stable and in the accept range of the checkweigher, the weight will be printed (if a printer is attached).

If the setting displayed is acceptable, press the **ENTER** key to save it. Otherwise, using the numeric keys, **0/NO** or **1/YES**, enter the new setting, then press the **ENTER** key to save it.

P-bAL = 1 (Yes)

Automatic Print on Accept Enabled

P-bAL = 0 (No)

Automatic Print on Accept Disabled

SLEEP= (Sleep Mode Feature)

The Sleep Mode feature conserves battery power when the indicator remains unused for a selected period of time. With the feature enabled, the load cell excitation will be reduced and the display will be blank.

Press the **ENTER** key to show the current status of this feature. If a number other than 0 is shown, this feature is selected and the number shown corresponds to the number of minutes of a stable zero weight reading before the indicator enters the sleep mode. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, use the numeric keys to enter a new value (0 to 10) then press the **ENTER** key to store the new setting. Note that entry of a 0 disables this feature.

A oFF= (Auto Shutoff)

The Automatic Shutoff feature will automatically turn the indicator off (when it is not in use) after a predetermined period of inactivity to prolong battery life. To turn the instrument back on you must press the **ON / OFF** key.

Press the **ENTER** key to show the current status for this feature. A number other than 0 indicates that the auto shutoff feature is enabled and the displayed number corresponds to the number of minutes of stable weight displayed before the indicator is turned off automatically. Note that a 0 indicates the feature has been turned off. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, use the numeric keys to enter a new value (0 to 10) then press the **ENTER** key to store the new setting.

CLtAr= (Clear Tare)

The Clear Tare feature allows the indicator to clear the Stored Tare weight when the Net weight goes below zero (a negative net weight after display of a positive net weight). With this feature enabled, the operator must re-set the tare after completion of a transaction when the load (container plus item) is removed from the scale.

Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key again to save it. Otherwise, using the numeric keys, **0/NO** or **1/YES**, enter the new setting, then press the **ENTER** key to save it.

CLtAr = 1 (Yes)

Automatically clears Stored Tare when Net weight goes below zero

CLtAr = 0 (No)

Stored Tare is not cleared when Net weight goes below zero

The following is a typical example of the Clear Tare feature in use.

1. Place container on scale, then press **TARE** key (with diamond "T" symbol on 210).
2. Load container with item to be weighed and perform normal weighing operation.
3. Remove load (item *AND* container) from scale.
4. Scale weight returns to below zero (the weight of the container) and is then reset to zero.
5. Operator is required to repeat step 1 before next weighing operation.

SETUP AND CALIBRATION, Cont.

A - d (A - d?) - Analog to Digital Filtering

dFLt= (Digital Filtering)

With A - d (A - d?) displayed, press the **ENTER** key. The display will change to dFLt=. Press the **ENTER** key to show the current value. If the setting displayed is acceptable, press the **ENTER** key to save it. Otherwise, using the numeric keys enter the new setting, then press the **ENTER** key to save it. Allowable values are: 0, 1, 2 or 3. Note, that if you select 3 (Custom Filtering) two additional prompts will be displayed.

dFLt=

0	Disabled – NO Filtering
1	MINIMAL FILTERING (sample rate = 2)
2	MODERATE FILTERING (sample rate = 1)
3	CUSTOM FILTERING

NOTE! The prompts, F= (Filter Level) and b= (Break Range) will only be displayed if you selected 3 (Custom Filtering) for the dFLt= (Digital Filtering) prompt.

F= (Filter Level)

Press the **ENTER** key to show the current setting for the filter level. The filter level is a number from 1 to 99 that corresponds to the level of filtering with 99 being the greatest filtering and 1 the least. To accept the value displayed, press the **ENTER** key, otherwise, use the numeric keys to enter a new value then press the **ENTER** key to save it.

b= (Break Range)

Press the **ENTER** key to show the current setting for the break range. The break range is a number from 1 to 255 that corresponds to the number of division change to break out of the filtering. Press the **ENTER** key to keep the displayed value or use the numeric keys to enter a new value and press the **ENTER** key to save the new setting. Note that entry of a 0 disables this feature.

Sr= (Sample Rate)

Press the **ENTER** key to show the current setting for the sample rate. The value displayed is the sample rate in samples per second. Press the **ENTER** key to save the displayed value or use the numeric keys to enter a new value (1 to 100) and press the **ENTER** key to save it.

UnS= (Motion Range)

Press the **ENTER** key to view the current setting for the range of motion detection. If the displayed value is acceptable, press the **ENTER** key to save it. Otherwise, use the numeric keys to enter the new range (the number of divisions of change permitted before indicating unstable), then press the **ENTER** key to save the new setting. Allowable range values are: 0 through 99 divisions.

SC= (Stable Count)

Press the **ENTER** key to view the current setting for the number of consecutive stable weight readings before indicating stable weight. This helps filter weight readings for stability for use with Auto Print on Balance, or and anything trying to capture stable weight. If the displayed value is acceptable, press the **ENTER** key to save it. Otherwise, use the numeric keys to enter a new value and press the **ENTER** key to save the new setting. Allowable values for the stable count are: 3 through 255.

SETUP AND CALIBRATION, Cont.

FILTER SETTING RECOMMENDATIONS

Non Critical Sample Rate

If the sample rate is not critical, as in static weighing, set dFLt= to "0" (no filtering), dFLt= "1" (F=6, b=12, Sr= 2/Sec), or dFLt= "2" (F=6, b=8, Sr= 1/Sec).

Critical Sample Rate

If the sample rate is critical, as in a filling operation, use the Custom Filtering (set dFLt= to "3").

1. Sr= SAMPLE RATE (1 to 50 samples/second) determination:

Set the sample rate as close as possible to produce a display graduation change for every graduation of material added to the scale.

$$\frac{\text{Material Flow Rate (lbs/second)}}{\text{Resolution}} = \text{Sr}$$

EXAMPLE: $\frac{100\text{lbs/sec}}{10\text{lbs}} = 10\text{s/s} = \text{Sr}$

2. b= BREAK RANGE (1 to 255 graduations) determination:

Turn the filtering off by setting the dFLt= setting to "0". Operate the system as it will be normally used and, by observation, determine the number of grads of instability that needs to be filtered out. Set the break range (b=) to that value.

$$\frac{\text{Weight Change}}{\text{Graduation Value}} = b$$

EXAMPLE: 20,000 x 10lb capacity scale with 800lb variation in the weight display.

$$\frac{800}{10} = b = 80$$

3. F= FILTER SETTING (1 to 99) determination: Set to desired results.
4. If stability is unacceptable with any setting of F=, reduce the sample rate and/or increase the break range, b= setting for increased filtering.

SETUP AND CALIBRATION, Cont.

CAL (CAL?) - Calibration

With CAL (CAL?) displayed, press the **ENTER** key. The display will change to show the current setting NO. If calibration is desired, press the **1/YES** key, then press the **ENTER** key to continue to the CAL1= setting, otherwise press the **ENTER** key to advance to the Sio menu.

CALIBRATION MODES

The 205/210 indicators have five modes that can be used to perform calibration. Three of the modes require a test load or test weights, one requires the scale to be empty (and at zero) and the last uses the calibration "C" numbers from a previous calibration. The modes are as follows:

1. Dual-Point with Zero (First Zero)

This is a standard calibration method requiring one weight, an empty scale and has one conversion factor. This method uses two calibration points (CAL1= and CAL2=) to establish a zero (no load) calibration value and to span the indicator. The two points correspond to zero weight and the test load or test weight and can be applied in any order. This method should be used for first-time calibration and complete recalibration.

2. Dual-Point without Zero (False Zero)

This calibration method requires one test weight and establishes a new conversion factor only. It is used to establish a false (temporary zero) zero without affecting the zero calibration value stored during the last calibration. This is particularly useful in tank weighing applications, where it may be impractical or impossible to completely empty the tank. This method uses two calibration points, CAL1= and CAL2=. The value of the test weight is entered when CAL1= is displayed and the **NET/GROSS** key is pressed when CAL2= is displayed.

3. Single-Point for Span Only (Last Zero)

This calibration method requires one test weight, the scale at zero and establishes a new conversion factor (span) without affecting the zero calibration value stored during the last calibration. This minimizes placing and removing test weights and is especially useful when checking high capacity scales. This method uses two calibration points, CAL1= and CAL2=. The value of the test weight is entered when CAL1= is displayed and the **ZERO** key is pressed when CAL2= is displayed.

4. Single-Point for Zero Only (Only Zero)

This calibration method requires no test weight, an empty scale and establishes a new zero without affecting the conversion factor (span). This is useful to regain the full range of zero limit when the dead load of the scale has changed. This would occur for example, if a guard rail has been added to the scale platform. This method uses two calibration points, CAL1= and CAL2=. The **ENTER** key is pressed when CAL1= is displayed and the **ZERO** key is pressed when CAL2= is displayed.

5. Calibration "C" Numbers

The calibration "C" numbers (C1, C2, C3 and C4) are displayed only during the Test mode operation and are shown at the end of the test. Each number is displayed for approximately 4 seconds, allowing you to record them. These numbers correspond to the calibration setting of the indicator. The numbers may be up to three digits in length. By recording these numbers you will be able to return the indicator to its present calibration settings without using test weights simply by entering the "C" numbers. *Refer to the Calibration "C" Number section of this manual for instructions on viewing the "C" numbers.*

SETUP AND CALIBRATION, CONT.

Dual-Point with Zero (First Zero) Calibration

CAL1= – FIRST CALIBRATION WEIGHT

The display will show CAL1=0. This is the first of two calibration weights. This weight could be ZERO (NO LOAD) or the TEST WEIGHTS / TEST LOAD.

- If the first calibration weight is to be ZERO (NO LOAD), press the **ENTER** key.
- If the first calibration weight is to be the TEST WEIGHTS / TEST LOAD, use the numeric keys to input the value of the calibrated test weights. **NOTE!** When entering values for CAL1=, the digits start displaying on the right side of the display and proceed to the left. When large values are used (more than 3 digits), the CAL1= prompt will automatically scroll off the left side of the display to show the additional digits on the right as they are entered.
- Place the weights on the scale platform, then press the **ENTER** key.
- Starting at the left and proceeding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the display will show: CAL2=.

CAL2= - SECOND CALIBRATION WEIGHT

The display will show CAL2=0. This is the second of two calibration weights. This weight could be ZERO (NO LOAD) or the TEST WEIGHTS / TEST LOAD.

- If the second calibration weight is to be ZERO (NO LOAD), press the **ENTER** key.
- If the second calibration weight is to be the TEST WEIGHTS / TEST LOAD, use the numeric keys to input the value of the calibrated test weights. **NOTE!** When entering values for CAL2=, the digits start displaying on the right side of the display and proceed to the left. When large values are used (more than 3 digits), the CAL2= prompt will automatically scroll off the left side of the display to show the additional digits on the right as they are entered.
- Place the weights on the scale platform, then press the **ENTER** key.
- Starting at the left and proceeding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the display will show: CAL3=.

CAL3= - LAST CALIBRATION WEIGHT

The display will show CAL3=0. This weight is not used. Press the **ENTER** key to skip CAL3= and advance to Sio?.

SETUP AND CALIBRATION, CONT.

Dual-Point without Zero (False Zero) Calibration

CAL1= – FIRST CALIBRATION WEIGHT

The display will show CAL1=0. This is the first of two calibration steps. This weight is the TEST WEIGHTS / TEST LOAD.

- Place the weights on the scale platform.
- Using the numeric keys, input the value of the calibrated test weights / test load, then press the **ENTER** key. **NOTE!** When entering values for CAL1=, the digits start displaying on the right side of the display and proceed to the left. When large values are used (more than 3 digits), the CAL1= prompt will automatically scroll off the left side of the display to show the additional digits on the right as they are entered.
- Starting at the left and proceeding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the display will show: CAL2=.

CAL2= - SECOND CALIBRATION WEIGHT

The display will show CAL2=0. This is the second of two calibration steps.

- Remove the weights on the scale platform, then press the **NET/GROSS** key.
- Starting at the left and proceeding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the display will show: Sio?.

Single-Point for Span Only (Last Zero) Calibration

CAL1= – FIRST CALIBRATION WEIGHT

The display will show CAL1=0. This is the first of two calibration steps. This weight is the TEST WEIGHTS / TEST LOAD.

- Zero the scale, then place the weights on the scale platform.
- Using the numeric keys, input the value of the calibrated test weights / test load, then press the **ENTER** key. **NOTE!** When entering values for CAL1=, the digits start displaying on the right side of the display and proceed to the left. When large values are used (more than 3 digits), the CAL1= prompt will automatically scroll off the left side of the display to show the additional digits on the right as they are entered.
- Starting at the left and proceeding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the display will show: CAL2=.

CAL2= - SECOND CALIBRATION WEIGHT

The display will show CAL2=0. This is the second of two calibration steps.

- Remove the weights on the scale platform, then press the **ZERO** key.
- The display will advance to Sio?.

SETUP AND CALIBRATION, Cont.

Single-Point for Zero Only (Only Zero) Calibration

CAL1= – FIRST CALIBRATION WEIGHT

The display will show CAL1=0. This is the first of two calibration steps.

- Insure the scale is empty.
- Press the **ENTER** key.
- Starting at the left and proceeding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the display will show: CAL2=.

CAL2= - SECOND CALIBRATION WEIGHT

The display will show CAL2=0. This is the second of two calibration steps.

- Press the **ZERO** key.
- The display will advance to Sio?.

Calibration “C” Numbers

1. With CAL1= displayed, press the "diamond T" TARE key (**UNITS** key on the 205).
2. At the C1= prompt, press the **ENTER** key to show the current value of the C1 number.
3. If the C1= number displayed is acceptable, press the **ENTER** key again to save it.
4. Otherwise, use the numeric keys to enter a new C1= number, then press the **ENTER** key.
5. Repeat steps 2 through 4 for C2=, C3= and C4=.



NOTE! If any components have been changed that affect calibration and/or your scale is used in a commercial application and must be "Legal for Trade" you cannot use the “C” numbers to re-calibrate.