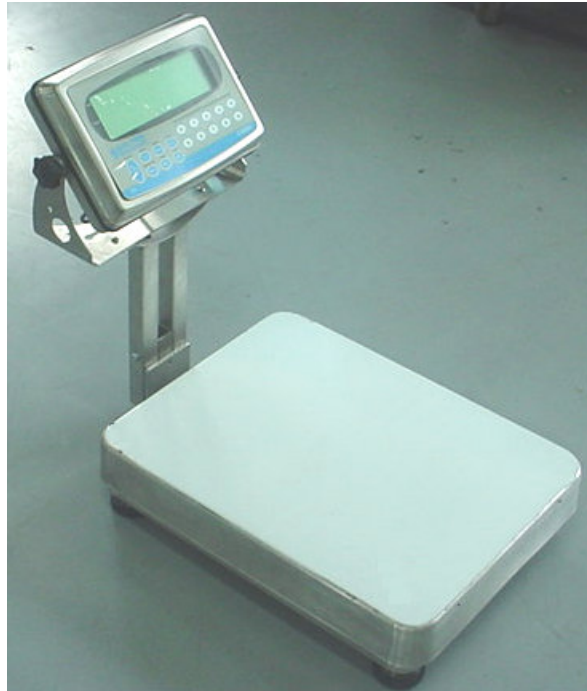# CHECK WEIGHER SCALE C3255

OPERATOR'S MANUAL

INTRODUCTION

The 3255 Checkweigher series scales are versatile and easy to use. The large display is allows you to easily view the weight.

 The 3255 allows you to store 10 preset checkweighing target settings, provides a simple counting feature and is battery operated using 6 "C" cell alkaline batteries (not included).
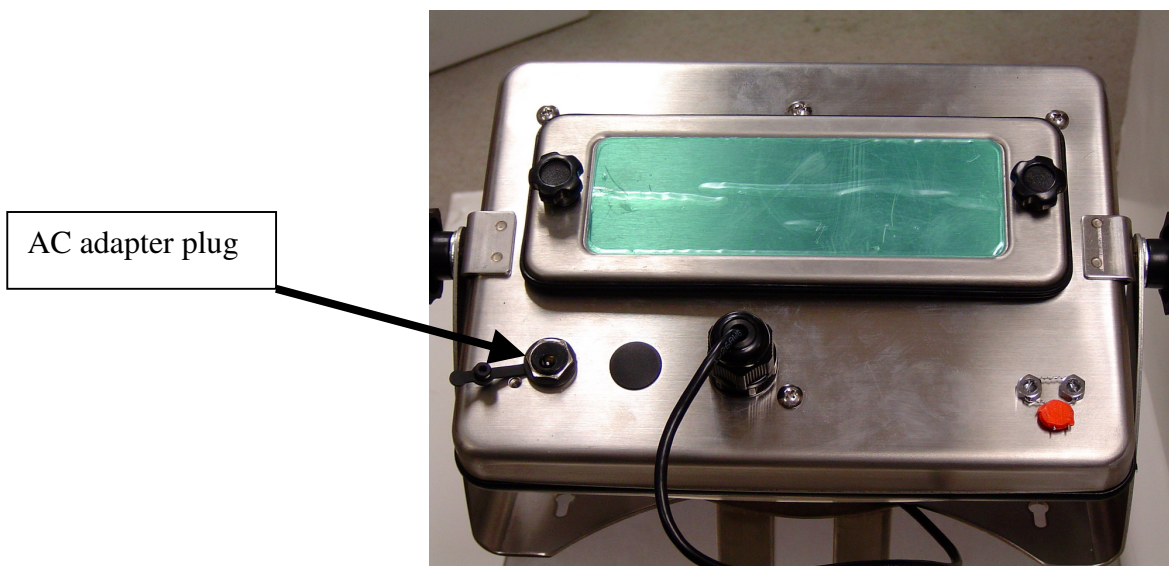
The 3255 Checkweigher series is NTEP approved at specific capacities and resolutions.

The stainless steel weighing platform and base allows you to wipe down the unit in moist applications. Please note this unit is not intended to be used in wash down applications. Please contact your local dealer to to see if your application meets the requirements of this scale.

The 3255 is equipped with a foldable display bracket, which allows you to lower to display assembly when you are using the unit in portable applications.

GETTING STARTED

1. Remove the scale from it's packaging. Included is the 120 Volt AC adapter, user manual, scale base and display assembly.

 2. To install the scale raise the display assembly up from the base, adjust the display locking button into place and make sure the display head is locked into position.

3. To ensure proper weighing make sure the scale is level, using the level bubble on the rear of the unit. Once level, tighten locking nuts using a 13 mm wrench.

4. Always fit the Adaptor to the scale BEFORE connecting to an electrical outlet. Disconnect from the electrical outlet BEFORE disconnecting the adaptor from the scale.

5. If installing "C" batteries make sure you do not use the AC adapter.

AC adapter plug

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SPECIFICATIONS

Model #	C3255			
Default Capacity	15 kg x 0.005kg 30 lb x 0.01 lb 480 oz x	30 kg x 0.01 kg 60 lb x 0.02 lb 960 oz x	60 kg x 0.02 kg 150 lb x 0.05 lb 2400 oz x	150 kg x 0.05 kg 300 lb x 0.1 lb 4800 oz x
Tare Range	Full scale capacity range			
Units of Measure	Kg, lb, oz			
Calibration Weight Units	Kg, lb			
Display	1.2 inch 5 1/2 digital actives			
Key functions	ON/OFF, MODE, NET/GROSS, ZERO, TARE, CALL, SET, 0 ~ 9			
Power supply	6 alkaline C-type batteries / AC adapter (15V 300mA)			
Operation Temperature	$10^0 \sim 35^0$ F			
Relative Humidity	$25^0 \sim 95^0$ F			
Zero Widow	Upon power up, 10% of scale capacity Zero Key, 2% of scale capacity Auto Zero Tracking - 2.5d			
Dimensions	Base: 17.4" L x 13.5" W x 4" H Base with Display: 17.4" L x 13.5" W x 19.75" H			
Approvals	NTEP			
Material	Stainless Steel			

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BATTERY INSTALLATION

1. Remove Battery Cover Screws.

2. Insert 6 "C" cell Alkaline batteries into compartment, and replace cover.
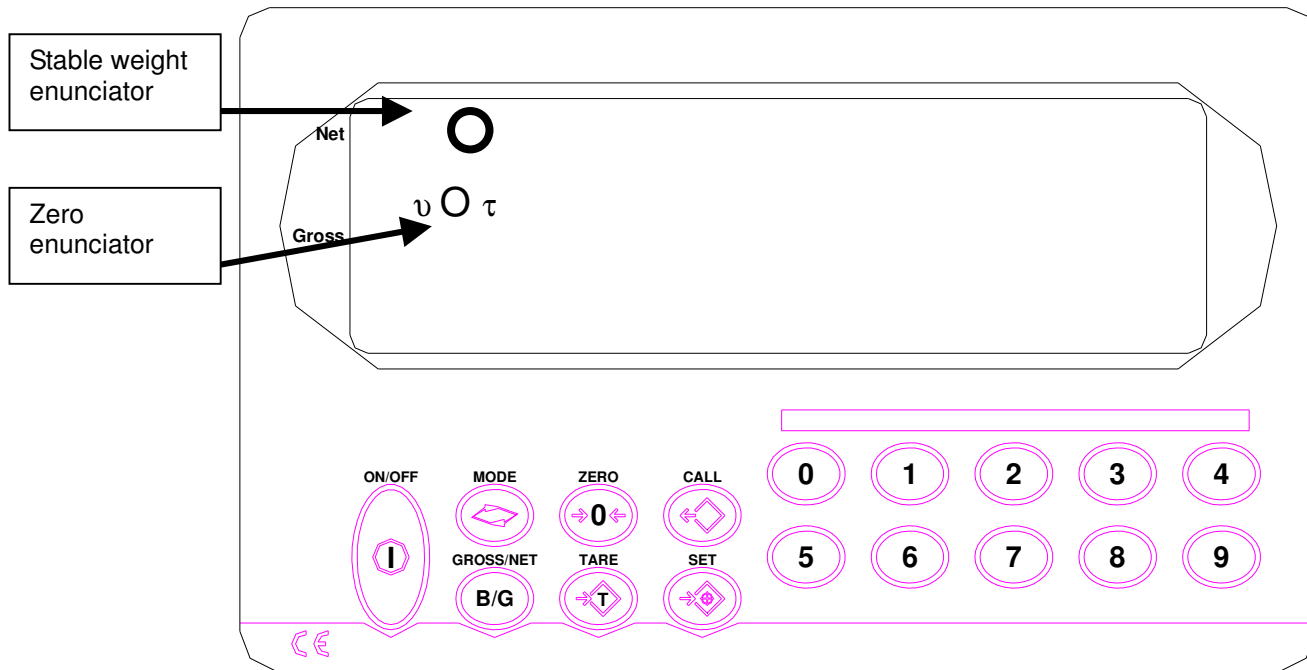

*** WARNING ***
When using the C3255 as a battery operated scale, do not use the AC adapter!

LOW BATTERY POWER

The 3255 battery life is estimated at 250 hours of continuous use. To conserve battery life, make sure you have configured the scale for Auto Shutdown, see configuration section.

1. **Low** (Low battery indication) will display on LCD display when battery's power is insufficient to power the scale.

2. When **Low** is displayed, remove old batteries and plug in the AC adapter or replace with new batteries.

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FUNCTION KEYS and DISPLAYED ANNUNCIATORS

Stable weight enunciator

Zero enunciator

Key	Function
ON/OFF:	Switch on / Switch off
MODE:	Toggle between weight units mode (lb, oz, kg) and activate the counting mode (pcs). Key is also used to exit check weighing and return to normal weighing mode.
ZERO:	Press this key to return to zero. Zero key will only operate if displayed weight is less than 2 % of full scale capacity 2%
CALL:	In checking weight mode, used to activate a saved target settings. In configuration mode, used to scroll between setting.
B/G (Gross/Net):	Used to toggle between net and gross weight. A bullet on the display will light to indicate what mode you are in
TARE:	Put a container on the scale, press this key to tare the weight. The tare value is stored.
SET:	Used to enter into set-up for check point target settings. In counting mode, used to select sampling quantity. In weighing mode, press and hold the SET key for 3 seconds to enter into configuration mode.
Numerical keys (0~9)	Used to call out saved target settings, and enter upper and lower limits.

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COUNTING PROCEDURE

The C3255 check weigher includes a simple counting function. The minimum sample size weight required is 1/5d of scales capacity and resolution.

*Important note, for accurate counting it is suggested to use the largest sample weight as possible.

1.   Make sure all weight is removed from platform.

2.   If tare is required, press the **Tare** key prior to sampling to tare out the weight of a empty container.

3. Press **MODE** key to enter into counting mode, the display will show:
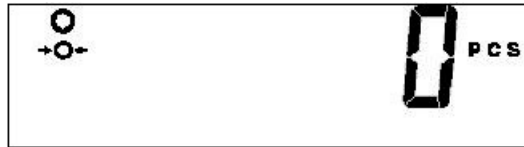
4. There are four pre-defined samples sizes available in the C3255. They are 10 pieces, 25 pieces, 50 pieces and 100 pieces. Press **SET** key to scroll to the desired sampling quantity.
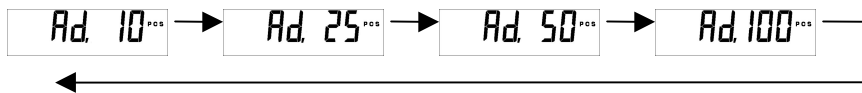
5. Once the desired sampling size is chosen, add the appropriate # of pieces onto the platform or into the empty (tared) container.

* **NOTE:** If no weight is placed on the scale, and you exit the counting function by pressing the **MODE** key, the scale will display an invalid # of pieces.

6. With the sample weight on the scale, the display will flash for 3-5 seconds.

7. Once the sample weight is stable, the stable enunciator will light and the scale will show the value of the sample weight.

- **NOTE:** If the displayed value of pieces does not equal the sample chosen, repeat steps 1-7 and chose a higher sample size value.

8. Press the **MODE** key to exit counting and return to normal weighing mode. Your sample value will be saved and stored until you store a new sample size is stored.

NOTE: The counting feature on the Model C3255 is NON TYPE approved.

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STORING CHECK WEIGHING TARGET SETTINGS

The C3255 allows you to store up to 10 target settings, using numbers 1-10. The keyboard is used to enter in you upper and lower check weight limits. Prior to setting up your target settings, use the mode key to scroll to the correct units of measure.

1. In normal weighing mode, press numerical key, and then press **SET** key to enter into a check weighing setup mode. The display will show as below:
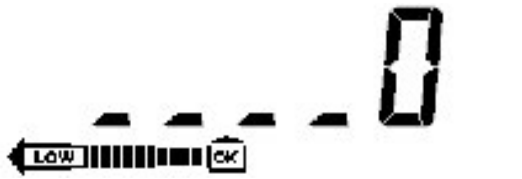

2. Using the numeric keypad, enter in the desired lower check weight, and press **SET** key. The display will show as below:
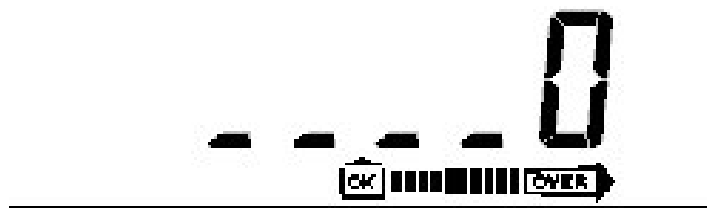
3. Using the numeric keypad, enter in desired upper check weight, and press **SET** key. The check weighing setup process is finished.

The display will briefly flash the lower and upper limits for you to make sure the setting were stored correctly. The scale will now exit from the set-up mode and return to normal check weighing mode.
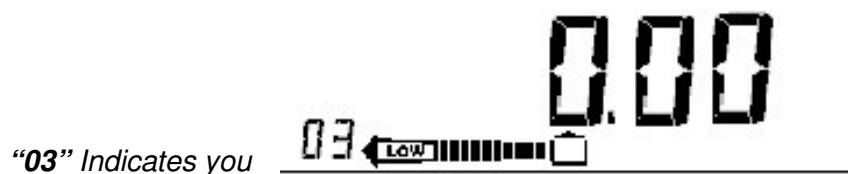
"03" Indicates you

4. To set up additional check weight target setting, repeat steps 1-3.

5. To exit check weighing mode, press the **MODE** key to exit and return to normal weighing mode.

* Note: If you do not enter a check weight limit within 10 seconds the scale will exit target settings and return to normal weighing mode.

If the upper limit is lower than the lower limit, the buzzer will beep-beep-beep to remind the operator the setup is incorrect. The device will auto clear the upper check weight and return to the last step – upper check weight setup.

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USING STORED CHECK WEIGHING TARGET SETTINGS

The Check weighing function can be used both in normal weighing mode and counting mode. Under normal mode, it stands for weight. While in counting mode, it stands for quantity.

To use a stored check weighing target setting:
1. In normal weighing mode, press the desired numeric key and then press **CALL** key to enter into check weighing mode. The scale will briefly show upper and lower check weights, for you to validate the correct key has been chosen and activate the check weighing function. The following is displayed if you press the **3** key, then **CALL.**

2. Load weight on platform.

3. If loaded weight is in the setting weighing range, LCD will show [OK] and the buzzer will continually beep until the item is removed from the platform

.
4. If loaded weight under lower limit, LCD will show [LOW] to remind the operator the loaded weight is not within the setting range. The low bar graph segment will change to indicate how close you are to achieving the acceptable weight.

5. If loaded weight over upper limit, LCD will show [OVER] to remind the operator the loaded weight is not within the setting range. The high bar graph segment will change to indicate how close you are to achieving the acceptable weight.

To exit the check weighing mode, please press **0** key and then press **CALL** key or press the **MODE** key.
Note:
Under check weighing mode, press **CALL** key to call out the existed upper and lower check limit.

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CONFIGURATION MODE DEFINTIONS

Below is the definition of the configuration setting and the scale operations they affect

Mode -
Select the capacity of the scale

Mode	Capacity KG	Capacity LB
CS_ _6	(6KG)	12 LB
CS_15	(15KG)	30 LB
CS_30	(30KG)	60 LB
CS_60	(60KG)	150 LB
CS_150	(150KG)	300 LB
CS_300	(300KG)	600 LB

** Shaded areas indicate C3255 capacities available

Units –
Configure each units of measure; LB, KG, oz, to On or Off. When selected units of measure is turned off, the selection will not appear when pressing the mode key. **The default setting is ON for all units of measure.**

DivS –
Select the displayed resolution of the scale for the selected capacity chosen. **The default setting is the NTEP approved capacity and resolution.**

A.OFF –
To help save battery life, configure the scale to automatically shutoff after 120, 180, 240, 300 seconds or turns the setting OFF if you have the unit plugged into an AC outlet at all times. **The default setting is ON.**

CaL_U –
Select the calibration weight used when calibrating your scale. **The default setting is Full.**

CAL_u-
Select the units of measure for calibration, KG or LB. **The default setting is LB**

Count –
Shows raw counts of load cell and enters into calibration mode

trAd –
Configure the scale for OFF (Non-TYPE approved or sealed) or ON (Select this feature when calibration the unit for weights and measures sealing. With the Selection ON, only A.OFF is configurable through the keyboard configuration menu. Press the sealing switch located under the battery compartment to enter into all other configuration modes.

End –
Exits the configuration mode and returns to normal weighing mode.
.

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CONFIGURATION MODE MENU

The scale can be set as desired for the user. Press **SET** key for 3 seconds to enter setting function mode. The scale will go into the following configuration mode.

| ModE | ® | Unit | ® | diviS | ® | A. OFF | ® | Cal_ U | ® | Cal_u | ® | Count | ® | TrAd | ® | End |

Use **CALL** key to scroll ®

Use **SET** key to scroll ™ or accept setting

| | | **OFF** | ® | ON |

| Displays raw counts |

| **kg** | ® | Lb |

| **Full** | ® | 1/2 | ® | ¼ |

| **120** | ® | 180 | ® | 240 | ® | 300 | ® | OFF |

See Table 2 for appropriate diviS

| oz | ® | **On** | ® | Off |
™

| Lb | ® | **On** | ® | Off |
™

| Oz | ® | **On** | ® | Off |

| CS_ _ 6 | ® | CS_15 | ® | CS_30 | ® | CS_60 | ® | CS_60 | ® | CS_150 | ® | CS_300 |

See Table 1 for Mode settings
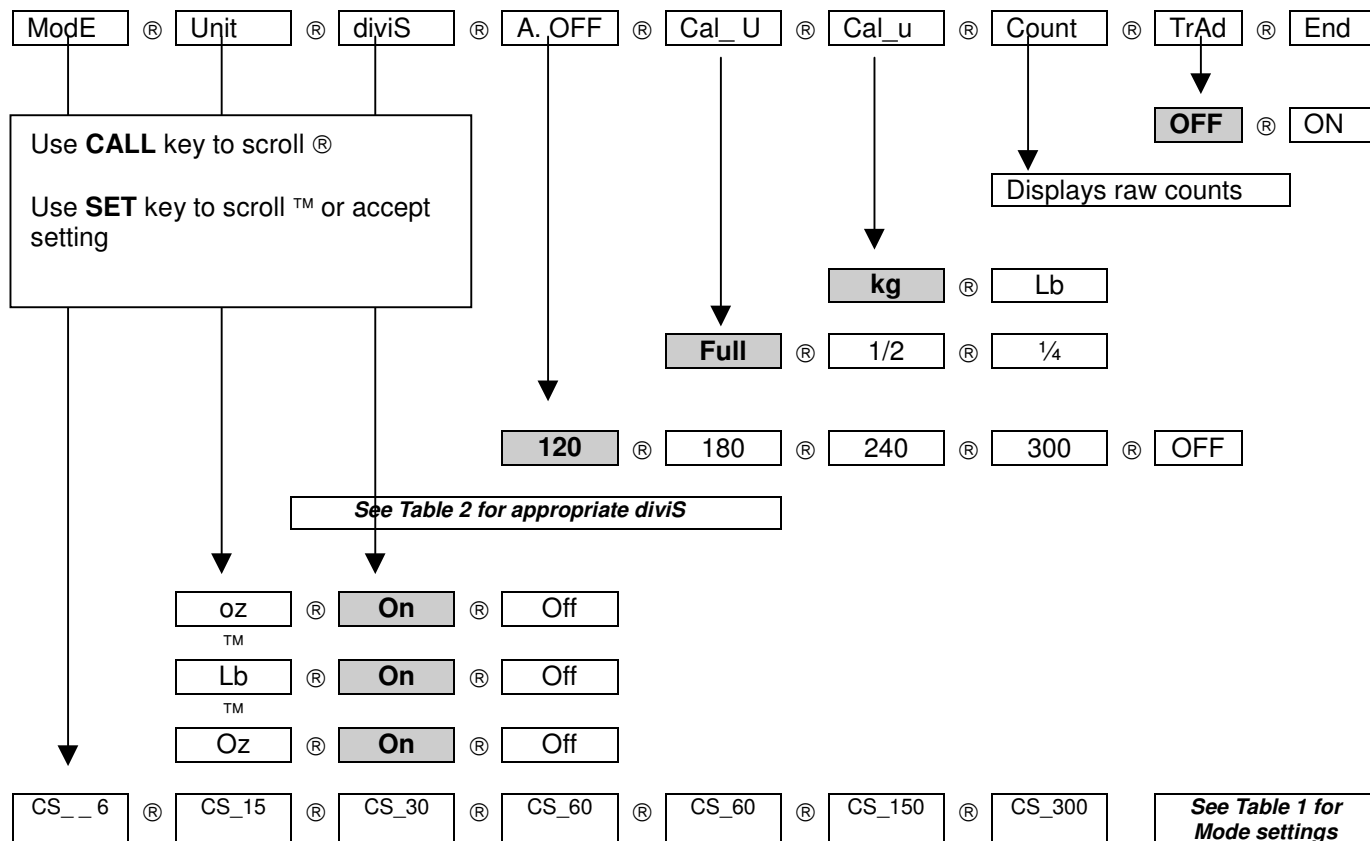
* Bold and gray Highlighted areas define factory default settings.

Table 1 – Mode Setting

Choose the appropriate mode setting for the capacity of your scale. The capacity sticker is located on the disdlay.

Mode	Capacity KG	Capacity LB
CS_ _ 6	(6KG)	12 LB
CS_15	(15KG)	30 LB
CS_30	(30KG)	60 LB
CS_60	(60KG)	150 LB
CS_150	(150KG)	300 LB
CS_300	(300KG)	600 LB

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Table 2 - Division Setting Table

When setting up the Mode selection, each mode (example CS_15) has 4 separate division setting which will give you the selection capacity and resolution for KG and LBS. Choose the correct setting below for your needs.

Mode	Selectable Division Setting	Capacity and Resolution KG	# of divisions	Capacity and Resolution LB	# of divisions	Accuracy
CS_6	6.0020 kg	6 x 0.002 kg	3,000 d	N/A	N/A	N/A
	6.0010 kg	6 x 0.001 kg	6,000 d	N/A	N/A	N/A
	6.0005 kg	6 x 0.0005 kg	12,000 d	N/A	N/A	N/A
	6.0002 kg	6 x 0.0002 kg	30,000 d	N/A	N/A	N/A
CS_15	**15.0050 kg**	**15 x 0.005 kg**	**3,000 d**	**30 x 0.01 lb**	**3,000 d**	**+ / - 1 d**
	12.0020 kg	15 x 0.002 kg	7,500 d	30 x 0.005lb	6,000 d	N/A
	15.0010 kg	15 x 0.001 kg	15,000 d	N/A		N/A
	15.0005kg	15 x 0.0005 kg	30,000 d	N/A		N/A
CS_30	**30.010 kg**	**30 x 0.01 kg**	**3,000 d**	**60 x 0.02 lb**	**3,000 d**	**+ / - 1 d**
	30.005 kg	30 x 0.005 kg	6,000 d	60 x 0.01 lb		N/A
	30.002 kg	30 x 0.002 kg	15,000 d	N/A		N/A
	30.001kg	30 x 0.001 kb	30,000 d	N/A		N/A
CS_60	**60.020 kg**	**60 x 0.02 kg**	**3,000 d**	**150 x 0.05 lb**	**3,000 d**	**+ / - 1 d**
	60.010 kg	60 x 0.01 kg	6,000 d	150 x 0.02 lb		N/A
	60.005 kg	60 x 0.005 kg	12,000 d	N/A	N/A	N/A
	60.002 kg	60 x 0.002 kg	30,000d	N/A	N/A	N/A
CS_150	**150.050 kg**	**150 x 0.05 kg**	**3000 d**	**300 x 0.1 lb**	**3,000 d**	**+ / - 1 d**
	120.020 kg	120 x 0.02 kg	6,000 d	300 x 0.05 lb	6,000 d	N/A
	150.010 kg	150 x 0.01 kg	15,000 d	N/A	N/A	N/A
	150.005 kg	150 x 0.005 kg	30,000 d	N/A	N/A	N/A
CS_300	300.10 kg	N/A		N/A		
	300.05 kg	N/A		N/A		
	300.02 kg	N/A		N/A		
	300.01 kg	N/A		N/A		

* Grey Shaded areas indicate capacities only available for Model 3255.
** Bold and shaded areas indicate NTEP approved capacities and resolutions only

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CALIBRATION PROCEDURE – NON- SEALED

There are two methods of calibrating the scale. Non –sealed, when the **TrAd** configuration is set to off and Sealed, when the **TrAd** configuration setting is to on. These instructions help you calibrate the scale, when it is in the non-sealed mode.

Periodically your scale may require calibration to ensure proper weighing. You will need a pre-calibrated or accurate weight to calibrate the scale. If calibration is performed with a weight other than a pre-calibrated or accurate weight, it will cause your scale to weigh inaccurately. Scale calibration is accomplished, when needed, by the following instructions

FUNCTION	SCALE RESPONSE
1. Remove all weight from the platform, and make sure the scale is in a level and stable environment.	
2. Press and hold the **SET** key for three seconds to enter into the configuration mode.	*Scale displays **"Mode"***
3. Press the **CALL** key 4 times to "**CAL_U",** press the **Set** key. The "**CAL_U"** function allows you to set the capacity of the calibration weight .	*Scale displays **"FULL".***
4. Press the **CALL** key to scroll through to choose 1 / 2 and 1 / 4.	***See Table 3 for valid calibration weights required***
5. Once you have selected the calibration weight, press the **SET** key once.	*Scale displays "**CAL_U".***
6. Press the **CALL** key once	*Scale displays "**CAL_u".***

The "CAL_u" configuration setting allows you to configure the scale to calibrate in pounds or kilograms.

7. Press the **SET** key once	*Scale displays "**lb"***
8. Press the **CALL** key to scroll through to choose **lb** and **kg**. Once you have selected the calibration weight, press the **SET** key once.	*Scale displays "**CAL_u".***
9. Press the **CALL** key once to scroll to "**Count**". Press the **SET** key once.	*Scale displays " XXXXX" (Raw counts At zero weight)*
10. Press the **TARE** key once to zero the scale.	

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CALIBRATION PROCEDURE – NON- SEALED- Conitnued

FUNCTION	SCALE RESPONSE
11. Load the appropriate calibration weight.	**"XXXXXX"**
	See Table 3 for valid calibration weights used, verify weight placed on platform is with acceptable span range.
12. Press the **TARE** key to begin calibration	"**-CAL-**"
13. The scale will exit out of calibration mode and return to normal weighing mode.	"**Scale will display weight used for calibration** "

If calibration process does not correct any weighing issues, contact the service department for technical support at 1-800-458-7062.

Table 3 - Calibration Weight Table

"FULL" – Full capacity

Mode (Capacity KG)	Capacity LB	Calibration Weight KG	Calibration Weight LB	Acceptable Span Range
CS_ _6 (6KG)	12	N/A	N/A	N/A
CS_15 (15KG)	30	10 KG	20 LB	80000-120000
CS_30 (30KG)	60	20 KG	40 LB	80000-120000
CS_60 (60KG)	150	50 KG	100 LB	100000-150000
CS_150 (150KG)	300	100 KG	200 LB	80000-120000
CS_300 (300KG)	600	N/A	N/A	N/A

* Grey Shaded areas indicate capacities only available for Model 3255.

"1 / 2" – 1 / 2 Capacity

Mode (Capacity KG)	Capacity LB	Calibration Weight KG	Calibration Weight LB	Acceptable Span Range
CS_ _6 (6KG)	12	N/A	N/A	N/A
CS_15 (15KG)	30	5 KG	10 LB	40000-60000
CS_30 (30KG)	60	10 KG	20 LB	40000-60000
CS_60 (60KG)	150	20 KG	50 LB	320000-60000
CS_150 (150KG)	300	50 KG	100 LB	40000-60000
CS_300 (300KG)	600	N/A	N/A	N/A

* Grey Shaded areas indicate capacities only available for Model 3255.

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Table 3 - Calibration Weight Table - Conitnued

"1 / 4" - 1 / 4 Capacity

Mode (Capacity KG)	Capacity LB	Calibration Weight KG	Calibration Weight LB	Acceptable Span Range
CS_ _6 (6KG)	12	N/A	N/A	N/A
CS_15 (15KG)	30	2 KG	5 LB	16000-24000
CS_30 (30KG)	60	5 KG	10 LB	20000-30000
CS_60 (60KG)	150	10 KG	20 LB	16000-30000
CS_150 (150KG)	300	20 KG	50 LB	16000-24000
CS_300 (300KG)	600	N/A	N/A	N/A

* Grey Shaded areas indicate capacities only available for Model 3255.

SEALING YOUR SCALE FOR WEIGHTS AND MEASURES APPROVAL

If your scales requires sealing by your local weights and measures authorities, please follow the instructions shown below to seal your scale.

* *IMPORTANT NOTE:* Once you have set the scale to the SEALED mode, access to the configuration menu is limited to changing the **"A.OFF"** settings **only**. To enter into the configuration menu for the other features or to calibrate your scale, you will be required to follow the steps shown on page X, "**Calibration Procedure Sealed".**

FUNCTION	SCALE RESPONSE

1. Follow step 1-13 of the **"Calibration Procedure Non-Sealed".**

2. Press and hold the **SET** key for three seconds to enter into the configuration mode.

   *Scale displays **"Mode"***

3. Press the **CALL** key 7 times to "**trad",** press the **Set** key.

   *Scale displays **"OFF"**.*

4. Press the **CALL** key once — *Scale displays **"ON"**.*

5. Press the **SET** key to active the sealing mode — *Scale displays **"trAd"***

6. Press the **CALL** key once — *Scale displays **"_END_"**.*

7. Press the **SET** key to exit and return to normal weighing mode.

Once you have set the scale to the SEALED mode, access to the configuration menu is limited to changing the **"A.OFF"** settings **only**. To enter into the configuration menu for the other features or to calibrate your scale, you will be required to follow the steps shown on page X, "**Calibration Procedure Sealed".**

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SEALING YOUR SCALE FOR WEIGHTS AND MEASURES APPROVAL

The C3255 requires a lead wire seal to seal the scale. Place sealing mechanism here.

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CALIBRATION PROCEDURE –SEALED

Breaking the seal to calibrate the scale will require you to re-certify the scale with your local authorized weights and measures inspector.

Follow the steps below to calibrate your scale:

1. Remove lead wire seal.

2. Remove bolts

3. Remove the two Display Mounting locks

4. Remove 4 screws

5. Remove rear display enclosure

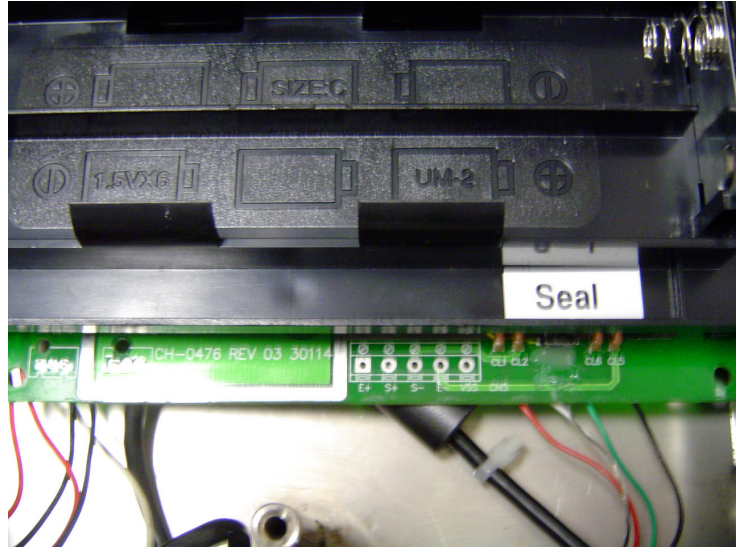Step 4

Step 3

Steps 1 & 2

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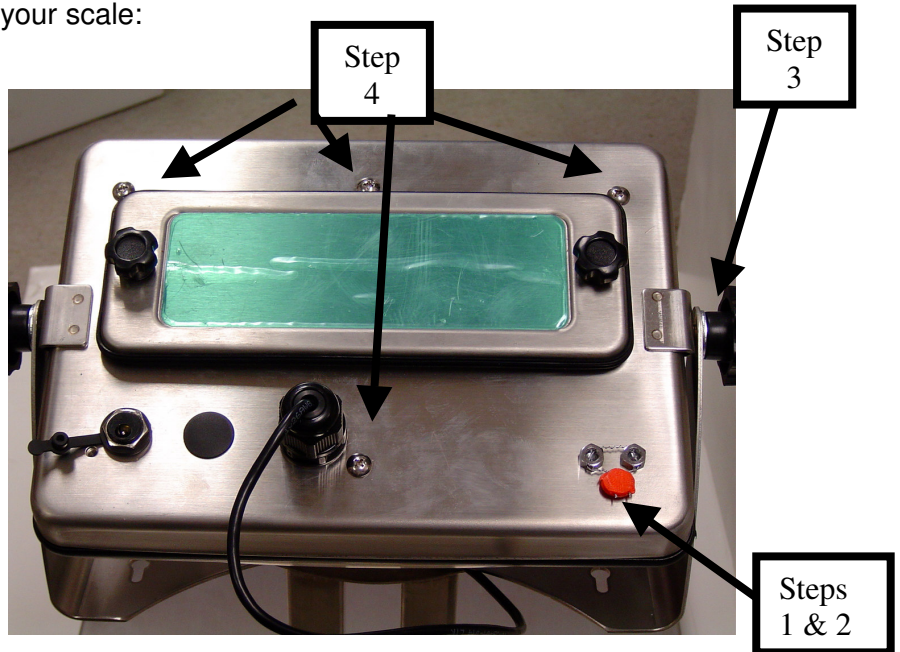
The calibration button is located on the display main PDB, underneath the battery compartment.

A sealing label covers the access hole. Remove the label and press the calibration button.

The scale will now be in the configuration mode. The display will prompt **"ModE".**

You are now able to configure and calibrate the scale. Review Configuration and calibration sections to procede.

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ERROR MESSAGES

1. Low Battery -
   If this message is displayed, it indicates that the battery needs to be replaced.
   Solution: Replace the battery or plug in the AC adaptor for operations.

   | Low |

2. Below Zero -
   The scale senses a weight value that is less than the allowable limit.
   Solution: Re-power on the scale again. If the message continues, the operator should ask the maintenance men to check the scale.

   ErrL

3. Over Zero -
   This message indicates that operator have too much weight on the scale when operator turned the scale on.
   Solution: Remove the excess weight from the scale platform and turn the scale off and then back on. If the scale continues to display this message, call for service.

   ErrH

4. Overload -
   If the weighting capacity exceeds the maximum capacity of scale, the display will show the right message.
   Solution: Remove the weight from scale platform right away.

   OuEr

5. Power on zero count over calibration zero +10%.
   Solution: Turn the scale off and then back on.

   0000

6. Power on zero count under calibration zero - 10%.
   Solution: Turn the scale off and then back on.

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