

# CB Series

---

Battery Powered Counting Scales

*Escali*<sup>TM</sup>

Digital Scales

ELECTRONIC SCALE OPERATING MANUAL

# SPECIFICATION

CB Series					
MODEL		E3CB	E6CB	E15CB	E30CB
Capacity	g	3,000	6,000	15,000	30,000
	lb	6	12	30	60
Resolution(e)	g	0.5	1	2/5	5
	lb	0.001	0.002	0.005/0.01	0.01
Tare range		50% of Full Capacity			
Weighing range	g	10~3,000	20~6,000	40~15,000	100~30,000
	lb	0.02~6	0.04~12	0.08~30	0.2~60
Operating Temp., Humidity		-10□ ~ +40□, 85%			
Power Requirement		DC 1.5V(D size) X 6EA / DC 12V, 300mA(Adapter)			
Power Consumption		MAX.: 0.31W			
Platform Size(mm)		337(W) × 256(L)			
Product Size(mm)		Non-pole type		348(W) × 382.4(L) × 153(H)	
Product Weight		Non-pole type		4 kg	
Display		Two side display: Weight (5 Digits), Quantity (8 Digits), Unit Weight (6 Digits)			
Operating hours with battery		Manganese battery - □ 500hrs , Alkaline battery - □ 1,000hrs (Without Back light)			
Direct PLU		20 Direct PLU keys			
Quantity Shortage Range	g	15	30	75	150
	lb	0.03	0.66	0.2	0.3
Unit Weight Shortage Range	g	0.33	0.66	1.33	3.33
	lb	0.001	0.002	0.003	0.007

# CONTENTS

1.	Introduction	-----
2.	Installation and Details for Caution Use	-----
3.	Name of Each Part	-----
4.	Instructions classified by Power Source	-----
5.	Keypad and Display Information	-----
6.	Function	-----
	- Procedures to set to Zero	
	- Procedures to set up and release the Tare	
	- Procedures to save a preset key (PLU key) with Unit weight	
	- Procedures to add up	
	- Procedures to set up time to automatically turn off the power	
7.	Error Indication and its Information	-----

## 1. Introduction

Thank you for purchasing our Escali commercially applicable **CB SERIES** electronic scale. Before using this product, please read the manual carefully in order to fully utilize the features.

- The protection provided by this equipment may be impaired if this equipment is used in a manner not specified in this manual.
- Possible modifications could be made to this product in the future for quality and functional improvement purposes.
- Installation Category □ : This instrument is supplied from the fixed installation.
- Pollution degree 2 : General environment without restriction for dust and moisture.
-  : Grounding,  : Caution

## 2. Installation and Details for Caution Use

\* Unless you follow the cautions properly, there may be life damage or material damage.

### ■ Correct Installation Procedures

- This instrument is intended for indoor use only.
- Install in areas with no influence of heat, such as direct ray of light and heater.
- Install away from areas with either strong magnetic force or electrical noise.
- Install on a flat and vibration-free platform.
- Install in areas with no dusts and moistures.
- Install in areas with no wind currents and radical thermal alterations.
- This instrument is not suitable for use at altitude above 2000m.

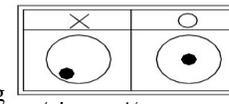
### ■ Details for Caution Use – Make sure to check the power source before use.

- Use a soft cloth with appliance of alcohol when polishing the scale.
- Keep out water or any liquid-type substance from the scale.
- Check to see if the scale is placed horizontally before use. If the scale is not in a horizontal position, use the horizontal positioning screw in order to adjust its position.  
(Have the foam inside of the level gauge be in the center.)

- When the scale is turned on, the display will be set to initial scaling condition after indicating RB-XX.

In order to maintain its electrical safeties, warm up the machine for approximately 10 minutes before use.

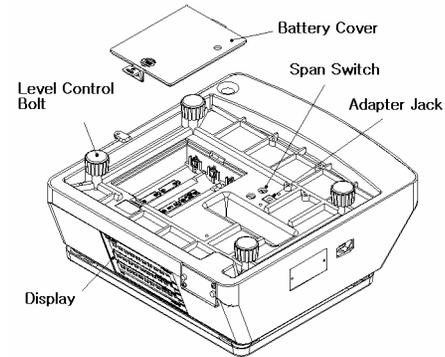
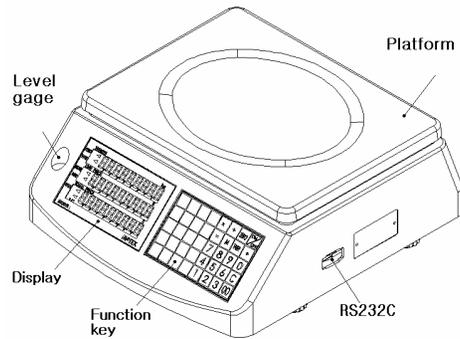
- Make sure the weight display is set to " 0 g " before use. If the display is not set to " 0 g ", use after setting the display to " 0 g "
- Use only authorized adapter.
- Use same kinds of batteries when using batteries.
- Remove the battery from the scale if not using the scale for a long time. It may cause damage to the scale from the leak of zinc-air battery.
- Weighing by over maximum capacity may cause damage to the scale.
- This scale needs periodical inspection every two years.
- Never reorganize, repair or disassemble this scale. Inquire of a manufacturer of a distributor about after service.



"tare" key.

### 3. Name of Each Part

#### N-type



#### P-type

### 4. Instructions classified by Power Source

#### 1. Adapter

- Connect the adapter (DC 12V, 300mA) with the power cord. Connect the jack to the adapter jack in the back side of scale body.
- Use only authorized adapter. Using a different adapter may cause a problem to the scale.
- When connecting adapter while the battery is in the scale, the battery power will be automatically turned off and adapter power will be charged even though the battery is in the scale.

#### 2. Battery (D-size)

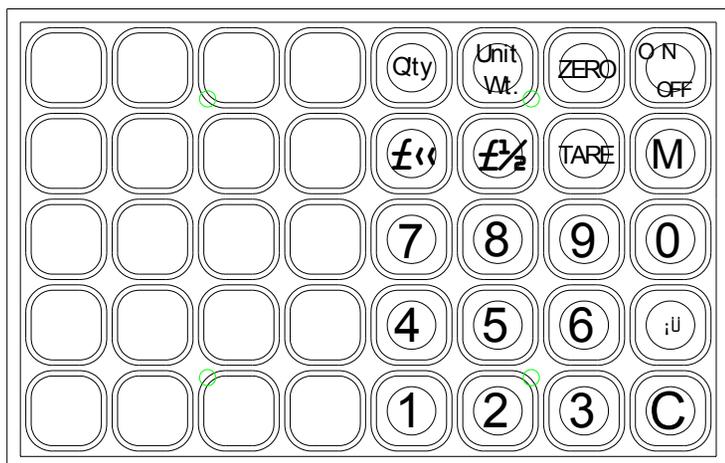
- Open the battery cover. Place 6 units of batteries to polarity at the bottom of the scale. Close the cover properly.
- Exchange the battery when "BAT" is indicated in the display.
- Not available to accurately weigh during "BAT" state.
- Use same kinds of batteries when using batteries. Using different batteries may cause a problem to the scale.

#### 3. Rechargeable battery

- Put the rechargeable battery pack into the bottom of the scale after opening the battery cover.
- Put the 2 pin connector from rechargeable battery pack into the power pack.
- Must connect adapter jack directly from the pack case or connect adapter jack to its power pack to charge.

## 5. Keypad & Display Information

KEY	KEY NAME	FUNCTION
[ ]	Preset Keys (PLU keys)	Inputs unit price or calls up the unit price.
[ 0 ]-[ 9 ], [ . ]	Number Keys	Inputs data.
[ M ]	Save Key	Saves unit price into a preset key. (Register 20 numbers of products.)
[ Unit Wt. ]	Unit weight Key	Sets up the unit weight of the scaled product
[ Q'ty ]	Quantity Key	Sets up the quantity of the scaled product
[ + ]	Add Key	Adds up the prices.
[ = ]	Total Key	Shows the total add-up price.
[ Tare ]	Tare Key	Sets up the tare or deletes the tare.
[ C ]	Delete Key	Deletes inputted data.
[ Zero ]	Zero Key	Sets the weight to "0g".
[ ON/OFF ]	Power Key	Turns the scale on/off.



## 6. Function

### ■ Procedures to set to Zero

- Used in order to set the weight display to “0 g” when it is not set to “0 g” even though there is nothing on the platform.

### ■ Procedures to Set up and Release the Tare: Used when scaling liquid or grain type substances that require a container.

- **Cases when the container weight is not known.**

1. Place the container on the platform.
2. Push the “Tare” key when the weighing is stable.
3. Check the lighting of Tare.

- **Cases when the container weight is known.**

1. Input the container weight using the number keys.
2. Push the “Tare” key.
3. Place the container on the platform.
4. Check the lighting of Tare.

- **Release the Tare**

1. Remove the container from the platform.
2. Push the “Tare” key.
3. Look at the light of Tare to check if the light is turned off.

\* By setting the tare, weight display will show the scaled product weight excluding the container weight.

\* Use after resetting the tare when the container weight has been changed.

### Procedures to set to counting

1) procedures to count by setting up the quantity

1. Place the container on the platform
2. Input the quantity of the product using the number keys.
3. Push the “Q’ty” key
4. When finished, push the “C” key to set to initial scaling condition.

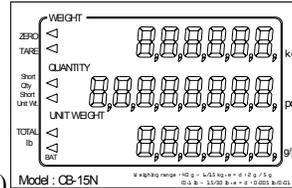
2) procedures to count by setting up the unit weight

1. Place the container on the platform
2. Input the unit weight of the product using the number keys.
3. Push the “Unit Wt.” Key
4. When finished, push the “C” key to set to initial scaling condition.

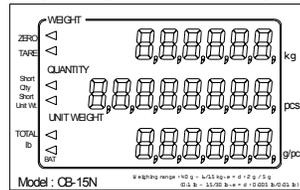
- If the “Shortage Unit Wt.” LCD is turned on, it means that the unit weight of the scaled product is within the “Unit Weight Short” range
- Inaccuracy may result when measured in a condition with both “Short Q’ty” and “Short Unit Wt.” LCD turned on. Therefore, scale in a condition when both LCDs are completely turned off.

■ **Procedures to save a Preset Key (PLU key) with a Unit weight value**

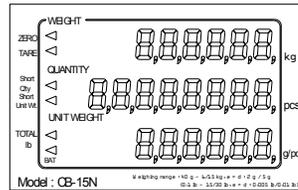
- Use by saving the unit weight of the frequently scaled product into the preset key. (Save up to 20 PLUs.)
- Make sure the display is set to “0g” before inputting unit price.



1. Input the unit weight by using the number keys. (unit weight is “2 g”)



2. Push the “M” key.

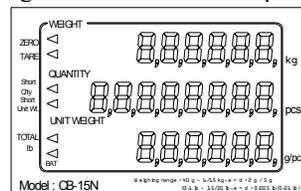


3. Push the preferred preset key.

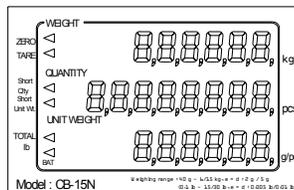
\* Reference: Unable to delete the inputted unit weight. therefore inputting the preset key will automatically replace the old unit weight with the new one.

■ **Procedures to call up the saved Unit Weight**

- During use, calling up the inputted unit price will automatically display the corresponding price when a product is placed on the platform.
- Cases when unit weight “2g” is saved into the first preset key.



1. Push the preset key.

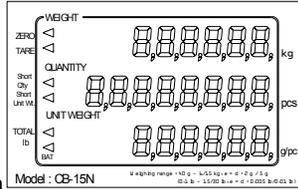


2. Place the product on the platform. (In cased : 200 g)

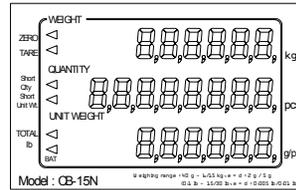
■ Procedures to add up the Unit weight

- Although there are many products to be measured, the quantity of the scaled each objects can be added up disregarding their unit weight.
- The number of add-ups can be possible up to 99 times and the total add-up value can be possible up to 99,999.999.

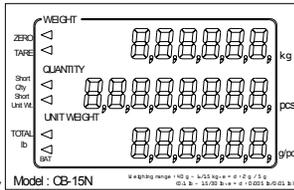
[ex] Cases when adding up the unit weight of the three different products (ex: unit weight 2g, 1. product A weight with 200g,  
2. product B with weight 500g, 3. product C with weight 700g)



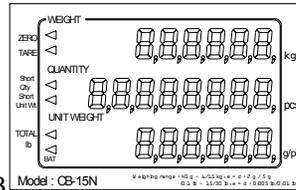
1. Place the product A on the platform



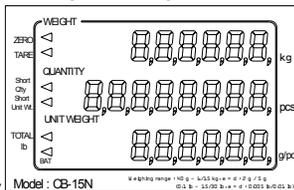
2. Input the unit weight by using the number keys. (unit weight is “2 g”)



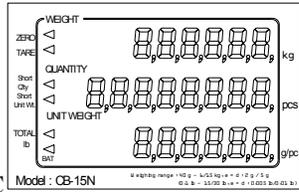
3. Push the “+” key



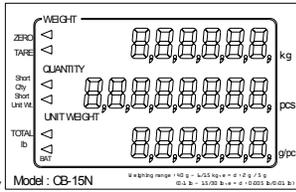
4. Remove the product A, place the product B



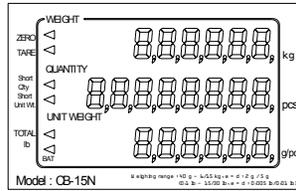
5. Push the “+” key



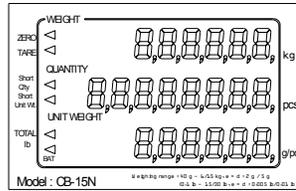
6. Remove the product B, place the product C



7. Push the “+” key



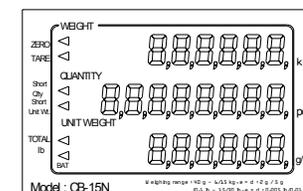
8. Push the “=” key after removing the scaled product C,



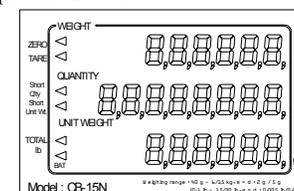
9. When finished, Push the “C” key twice.

## ■ Procedures to set up time to automatically turn off the power

- Push the “C” key for 5 seconds while the weight, quantity, unit weight of the scale are zero state and Tare is released as the picture No. 1.



- Set up the preferable time to turn off the power by using the “+” key or “=” key while the display is showing as picture No. 2.
- Complete the procedures to set up the time using the “M” key. Not pushing the “M” key does not save this function.
  - The scale is automatically turned off when not being used for selected time without inputting a key or changing the weight.
  - Used in order to prevent unnecessary consumption of the battery.
  - Select time to automatically turn off the power as OFF – 5min.- 10min. – 30min. – 60min. – 120min.
  - Release the time setup by setting up with ‘OFF’.
  - Without inputting a key for 5 seconds will automatically set back to the scale mode in the picture No. 2.
  - The scale is dispatched with ‘5 minutes automatic turning off the power’ mode. (The scale is automatically turned off when not being used for 5 minutes.)



## 7. Error Indication and its Information

Error	Information	Solution	Error	Information	Solution
Err-01	Memory reading error	A/S	Err-02	Zero range error (Test mode)	A/S
Err-03	Problems in Weighing range (Test mode)	A/S	Err-d0	Exceed maximum weight	Check the platform, A/S
Err-d1	Below minimum weight	Check the platform	Err-d2	Problems in AD converter	A/S
Err-d3	Tare range error: Unstable condition, Exceed tare range, Setting up the Tare during “-(minus)” weighing	Check the scale	Err-d4	Exceed maximum data range of AD converter	Check to see if there is anything on the platform, A/S
Err-d5	Below minimum data range of AD converter	Check the platform, A/S	Err-d6	Weighing range error	A/S
Err-d7	Problems in Zero / Exceed the range	A/S	Err-d8	Not in a stabilized condition	The scale is experiencing vibrations or wind currents : Place the scale in a stabilized condition

- When the scale stops operating or ON/OFF key does not operate
  - Reset the battery or adapter jack. When they do not operate after resetting the battery or adapter jack, claim the after service.

# Warranty Regulations

1. **Warranty information and term of its validity.**

The scale's breakdown under normal operating condition is guaranteed for a repair with no charge for 1 year from the date of its purchase.

2. **Exception for guaranteed repair.**

Breakdown caused by following reasons are exceptions for guaranteed repair.

- When breakdown occurs by remodeling the scale with one's decision, without any approval from this company or this company's acknowledged business pursuits.
- Breakdown caused by lack of user's care.
- Interior remodeling; when damage is made by a person, not affiliated with this company and this company's sales department, trying to change the inner structure of the product.
- Breakdown and damage caused by not abiding the cautions during use.
- Breakdown or damage caused by natural disaster such as fire and flood.
- When the letter of warranty is not presented.

Data of visit	Reason for visit	Inspection result	Inspector

3. **Other**

Letter of warranty without official seal of approval is not valid.

## Letter of Warranty

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Serial No.	
Name of company	
Address	
Date of delivery (yr/mo/dt)	
Sales department	Telephone
Address	
Sales agent	