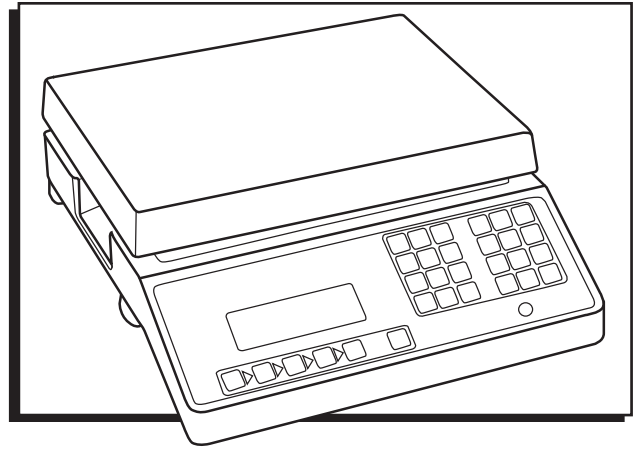




H-1096, H-1097  
H-1098, H-1099

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# DELUXE COUNTING SCALE



## INSTALLATION

### UNPACKING

- Unpack and verify the following components have been included:
  - Scale unit
  - Instruction manual
  - Weighing pan
  - Power adapter
  - Allen wrench
  - Four head cap screws
- Save the packaging material. This packaging ensures the ideal protection for the storage or transport of the product.

### LEVELING

- Retract the right rear foot (A) completely into the scale. (See Figure 1)

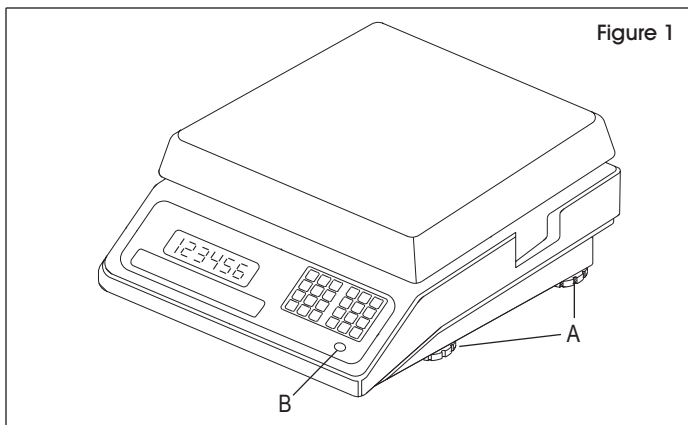


Figure 1

- Adjust the two front feet (A) until the leveling bubble (B) is centered in the circle. (See Figure 1)
- Extend the right rear foot until it contacts the mounting surface. Make certain that all four feet are contacting the mounting surface.
- Make certain the scale is stable by placing both hands on the scale platform and attempt to rock the scale. If it moves, adjust the leveling feet until the scale stands firmly on the mounting surface.

### ASSEMBLY

- Using the Allen wrench and head cap screws provided, secure the pan support (C) to the four posts (D) over the sensor (E). Next, place the weighing pan (F) over the pan support. (See Figure 2)

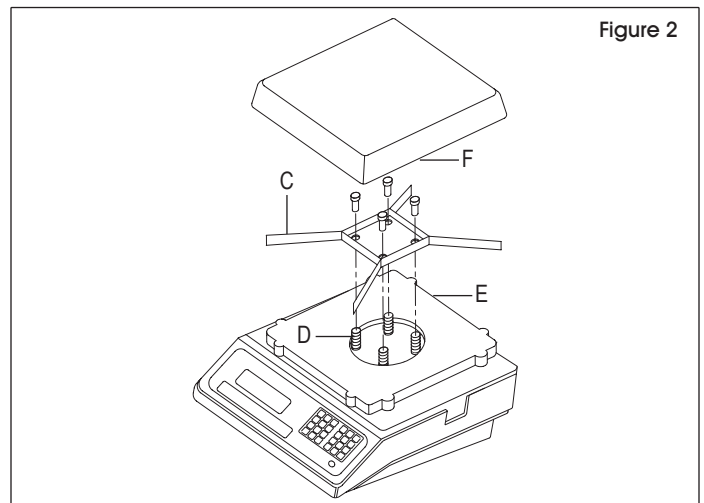



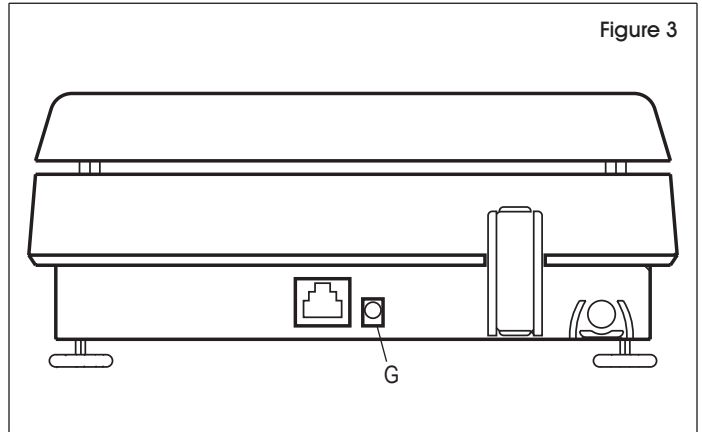
Figure 2

# INSTALLATION CONTINUED

## CONNECTING TO POWER

 **NOTE:** When your scale is first powered on, it automatically runs through a 6-second display test. The scale next displays “C nnn g” (where nnn equals the full scale capacity in grams), performs self-diagnostics to ensure proper operation and then sets itself to zero. A wake-up message is always transmitted upon power up. The scale is then ready for use. For best accuracy, allow the scale to warm up for 5 minutes.

1. Insert the AC adaptor into an electrical outlet. Connect the other end of the adapter into the back of the scale (G). (See Figure 3)



2. Once plugged in, the scale automatically turns on.

## KEYBOARD FUNCTIONS

zero	Assigns the pan and whatever is currently being weighed a value of zero. While the scale is determining a stable weight reading, the display will indicate “BUSY.”
sample size	Displays preprogrammed sample sizes (10, 25, 50, or 100 pieces).
count	Instructs the scale to begin or resume counting. This key may also be used to “update” the average piece weight for increased counting accuracy.
setup/cal	Instructs the scale to enter a setup or perform a calibration.
a.p.w.	Instructs the scale to accept an average piece weight entry.
clear	Clears the last number entered or operation requested, and displays weight.
tare	Instructs the scale to accept a numerical tare weight entry. If a container is placed on the pan, pressing tare assigns its weight as the “tare” (i.e. container weight) and saves it in memory. The display will read net weight (i.e. contents weight).
gross	Toggles between the gross weight and the net weight. (gross weight - tare weight = net weight)
print	Scale sends displayed and stored or programmed information to a printer, computer (or other RS-232 peripheral device).
units	Converts the weighing units of measure (e.g. changes from grams to ounces).
accum	Sums and stores the results of multiple weighing or counting operations.
i.d.	Instructs the scale to store an identification number of up to 25 digits (e.g. a part number or account number) to be printed or transmitted to a peripheral device.
display	Instructs the scale to recall the value stored in any of the various registers (e.g. tare, accumulate, etc).
reset	Sets all counting and weighing registers to zero. Clears all volatile ID registers. Assigns the pan and whatever is currently being weighed a value of zero. Displays full scale capacity.

# KEYBOARD FUNCTIONS CONTINUED

•	Instructs scale to enter a decimal point during numeric entry.
-	Instructs scale to change the sign of a number. Interpreted as a hyphen when entered as part of an ID number.  When preceding any register that stores a value, instructs the scale to clear the stored value from that specific register. (e.g. Pressing the - tare keys will clear the tare value in memory.)  When preceding the units key, instructs the scale to convert the weighing units to the factory default (grams).
0-9	Instructs the scale to enter numerical values given for registers such as ID number, count, tare or average piece weight.

## OPERATION

### BASIC WEIGHING

1. Press the zero key and place the object(s) to be weighed on the pan. (See Figure 4)
2. Wait for the "OK" symbol, then read the weight from the display.

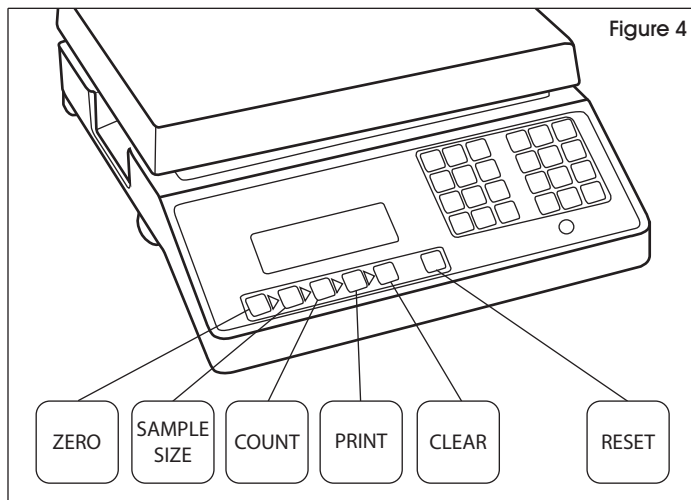
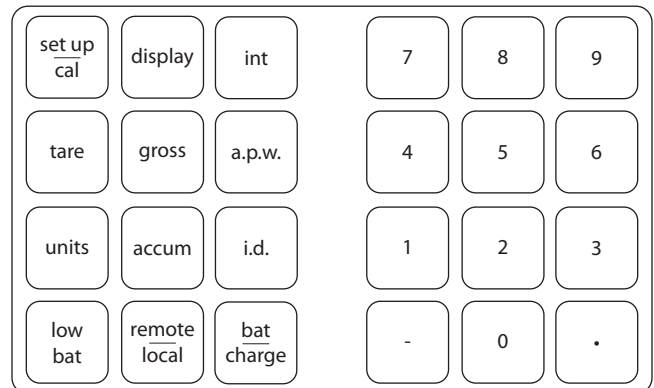


Figure 5



### CONVERTING THE WEIGHING UNITS

1. Press the units key repeatedly. (See Figure 5) Continue pressing the key until the units you wish to use are displayed.



**NOTE:** The order of units is as follows:  
**GRAMS - OUNCES - POUNDS - TROY OUNCES - PENNYWEIGHTS - CARATS - "x" UNITS (user defined) - GRAMS.**

2. To return to the factory default (grams) press - units.



**NOTE:** When you press the tare key, the container weight is stored in memory and the display will read zero. You must use the tare key, not the zero key, in step #2 to store the container weight in memory. To recall the stored tare value, press display tare. To clear the stored tare value, press - tare.

### WEIGHING WITH A CONTAINER

1. Press the zero key. Place the empty container on the pan.
2. Press the tare or zero key. (If the tare weight is known, a full container may be placed on the pan. In this case, enter the tare weight through the keyboard and then press the tare key.)
3. Wait for the "OK" symbol. Place or pour objects or liquids into the container.
4. Wait for the "OK" symbol, then read the net weight from the display.

## OPERATION CONTINUED

### DISPLAYING THE GROSS WEIGHT

1. Press display followed by the gross key.

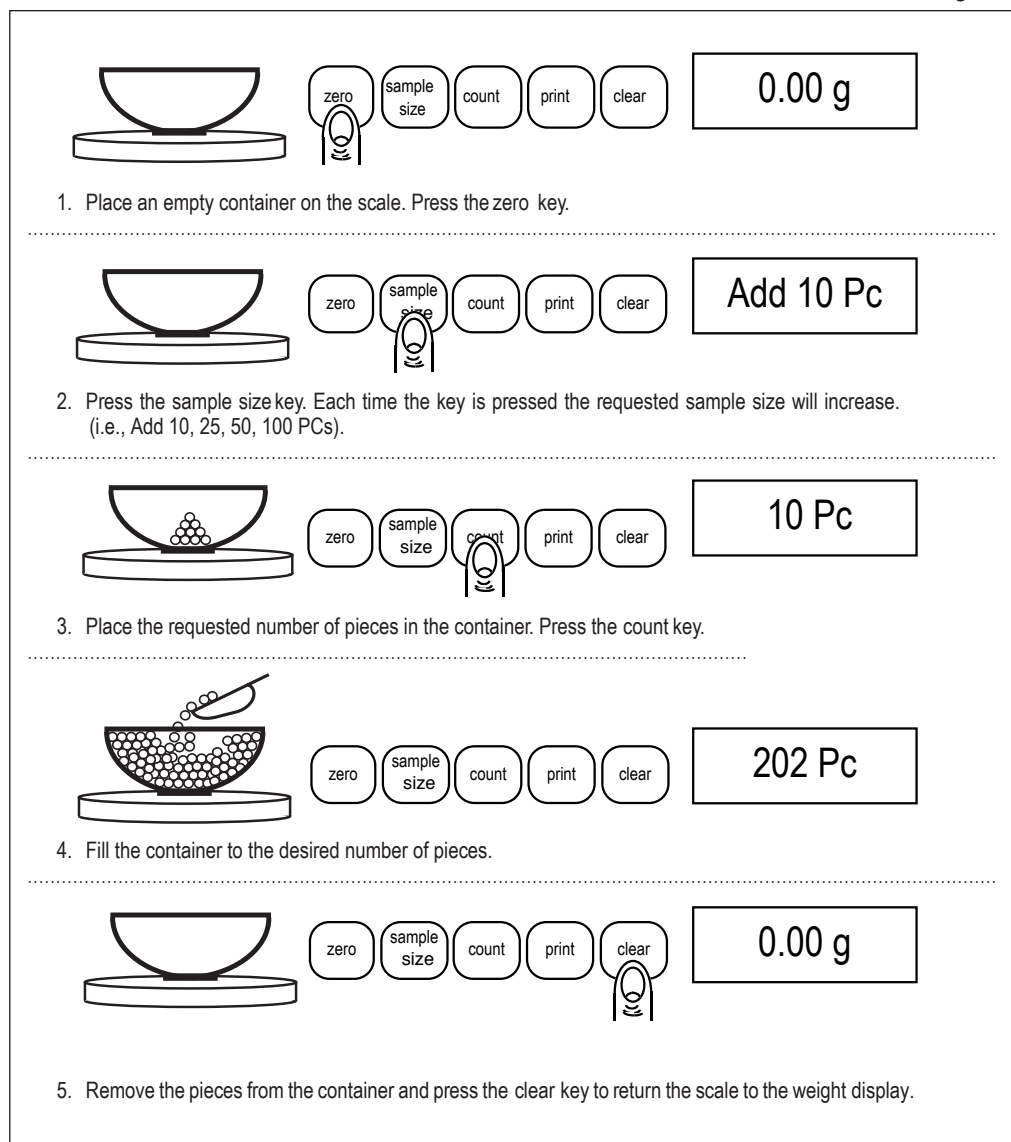
2. To toggle between the gross weight and the net weight, press the gross key repeatedly. The gross weight will equal the net weight unless a container weight has been entered using the tare key (see section, "Weighing with a Container").

### BASIC COUNTING



**NOTE:** The scale will never request a sample size less than the preset minimum sample size. The scale may request that more pieces be added after the initial sampling if a minimum accuracy requirement has been preset. (See the "Using the Minimum Sample Size or Minimum Accuracy Feature.")


Figure 6



## OPERATION CONTINUED

### USING THE FULL COUNTING FUNCTION


1. Press the zero key.
2. Place a known number of pieces on the pan.
3. Enter the number of pieces through the scale keyboard.
4. Press the count key.
5. Wait for the "OK" symbol.
6. Add pieces until you reach the desired piece count.
7. Wait for the "OK" symbol, then read the display.

 **NOTE:** The scale may request that more pieces be added after the initial sampling if a minimum accuracy and/or minimum sample size requirements have been preset.

### COUNTING WITH A CONTAINER

1. Press the zero key.
2. Place the container on the pan.
3. Press the tare key or zero key. (If the tare weight is known, a full container may be placed on the pan in step #2. In this case, enter the tare weight through the keyboard and then press the tare key.)
4. Wait for the "OK" symbol. Then press the sample size key.
5. The scale display will say "Add 10. PC". (The sample size requirement can be increased by pressing the sample size key repeatedly. The predetermined sample sizes are: 10, 25, 50 and 100 pcs. This sequence of predetermined sample sizes will repeat itself as the sample size key is pressed.)

6. When you reach the desired sample size, place the requested number of pieces in the container.
7. Press the count key.
8. Wait for the "OK" symbol. Then add pieces until you reach the desired piece count.
9. Wait for the "OK" symbol. Then read the display. The scale will read the total number of pieces you have placed in the container.


 **NOTE:** You may recall the tare weight by pressing display, tare, but only if it was stored in step #3 by using the tare key and not the zero key.

### DISPLAYING GROSS WEIGHT DURING COUNTING


1. Press the gross key to display the gross weight.
2. Press count to return to the counting mode.

### COUNTING WITH A KNOWN AVERAGE PIECE-WEIGHT

1. Press the zero key.
2. Place the pieces on the pan.
3. Enter the known average piece weight through the keyboard.
4. Press the a.p.w. key.
5. Wait for the "OK" symbol. Then read the display. The scale now reads the number of pieces on the pan.


 **NOTE:** Before you enter an average piece weight, make sure your scale is reading in the units you wish to enter.

## CALIBRATION

 **WARNING!** Scale can only be accurately calibrated using standard calibrated scale weights. Using non-calibrated weights may result in inaccurate scale calibration. Nothing should be on the scale. The scale should be level.

1. Turn on the scale. Press the reset key.
2. Press the units key until the scale displays the units of the known weight (i.e., grams, oz., lbs., etc.)

3. Place the known weight (standard scale weight) on the weighing pan.

 **NOTE:** For maximum accuracy, the weight used should be as close as possible to the scale capacity.

4. Use the numeric keypad to enter the value of the known weight.
5. Press the setup/cal key.

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