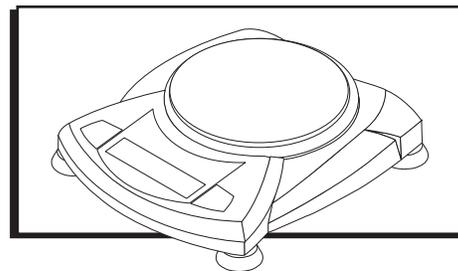




H-2709, H-2710, H-2711
 H-2712, H-2713, H-2382
 H-2383, H-2384, H-3054

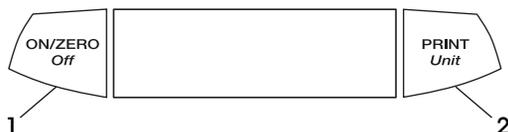
1-800-295-5510
 uline.com

SCOUT PRO BALANCE SCALE



OVERVIEW OF CONTROLS

CONTROL PANEL



CONTROL PANEL PARTS

#	DESCRIPTION
1	ON/ZERO Off Button
2	Print Unit Button

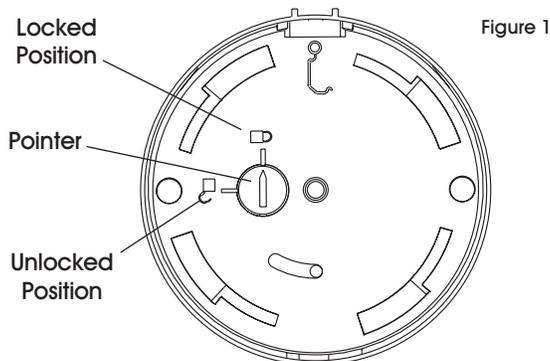
CONTROL FUNCTIONS

BUTTON		
PRIMARY FUNCTION	<p>ON/ZERO</p> <p>Turns on balance. If balance is on, zeros the display.</p>	<p>PRINT</p> <p>Sends print command to interface port. If Display Hold or Totalize mode is active, a short press will enter that mode.</p>
SECONDARY FUNCTION	<p>OFF</p> <p>Turns off balance. OFF will be displayed after the button is held for 3 seconds. In Display Hold or Totalize mode, a long press exits the more without turning the balance off.</p>	<p>UNIT</p> <p>Press and hold scrolls through units. Release on desired unit.</p>
MENU FUNCTION	<p>An extended long press (>5 seconds) during power up will cause the balance to enter the Menu mode. A short press is used to accept a setting on a display.</p>	<p>Will bypass setting shown on display.</p>

SETUP

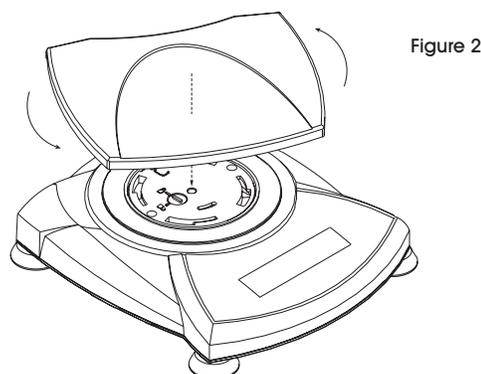
RELEASING THE SHIPPING LOCK

On the top of the balance, turn the pointer 90 degrees counterclockwise to unlock. (See Figure 1)



PLATFORM INSTALLATION

Balances with a rectangular platform are placed into the subplatform as shown and rotated counterclockwise until they lock. (See Figure 2)



SETUP CONTINUED

PLATFORM INSTALLATION CONTINUED

Round platforms are placed straight down on subplatform. (See Figure 3)

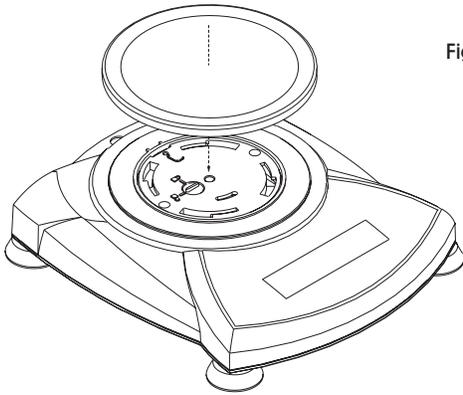
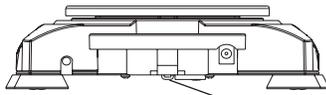


Figure 3

SECURITY BRACKET

A security bracket is provided at the rear of the balance allowing the balance to be secured by an optional cable and lock accessory. (See Figure 4)



Security Bracket

Figure 4

SELECTING THE LOCATION

For best performance, the scale should be used in a clean, stable environment. Do not use in environments with excessive drafts, with rapid temperature changes, near magnetic fields or near equipment that generates magnetic fields or vibrations.

CONNECTING POWER

BATTERY INSTALLATION

Install 4 "AA" batteries in the battery compartment. (See Figure 5)

AC ADAPTER INSTALLATION

Plug the AC adapter into the jack at the rear of balance. (See Figure 5)

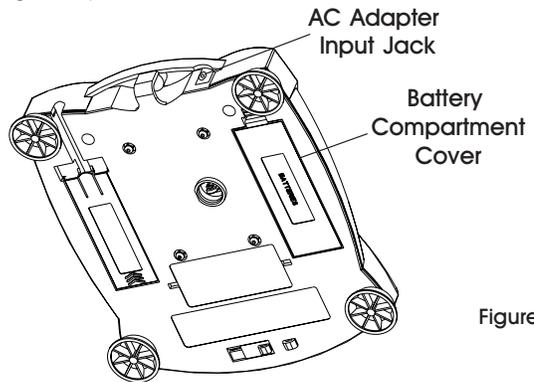


Figure 5

OPERATION

SYMBOLS

Press the button on the scale.

The clock symbols adjacent to the finger symbol indicates the length of time to press a button.

- 1 second momentary press.
- 3 second extended press.
- 5 second extended press.



Panel control buttons used to initiate actions.



Displays are shown as they appear on the balance.

... Indicates scrolling to a final display. The first and last displays are shown.

Indicates advances to next display.

TURNING THE BALANCE ON



TURNING THE BALANCE OFF

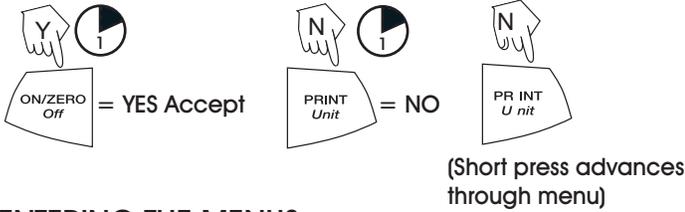


OPERATION CONTINUED

MENU NAVIGATION

ACCEPTING / BYPASSING MENU ITEM

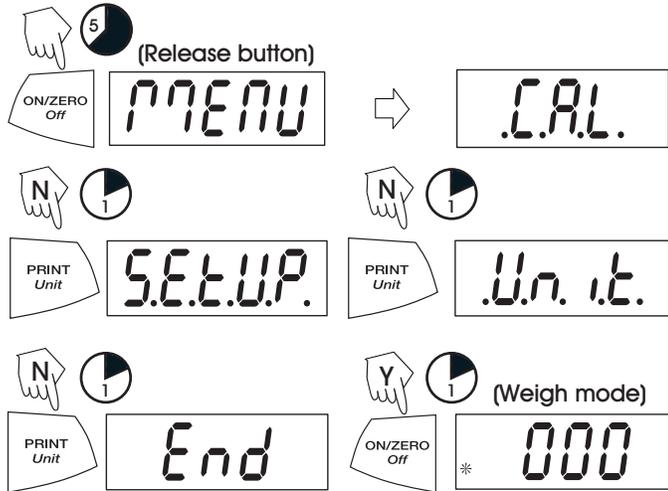
Start with menu item displayed.



ENTERING THE MENUS

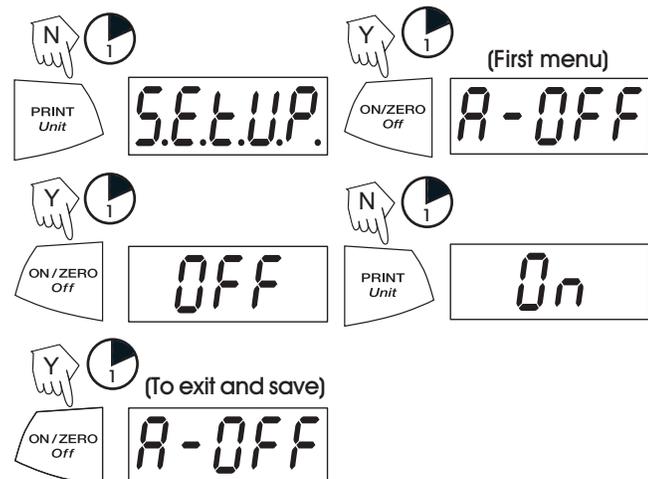
There are four main menus in the balance: .C.A.L., .S.E.T.U.P., .U.N.I.T.S, and .E.N.D.

NOTE: Start with the balance off and the Lock Switch off.



ENTERING THE .S.E.T.U.P. MENU

The .S.E.T.U.P. menu contains Auto-Off, Linearity Calibration, Mode (Display Hold, Totalize) and END. Auto-Off can be turned on or off. Display Hold and Totalize require entering the Mode submenu. Starting from the .C.A.L. menu.



NOTE: Select ON or OFF for Auto-Off. To enter Display Hold or Totalize, you must first enter the Mode sub-menu.

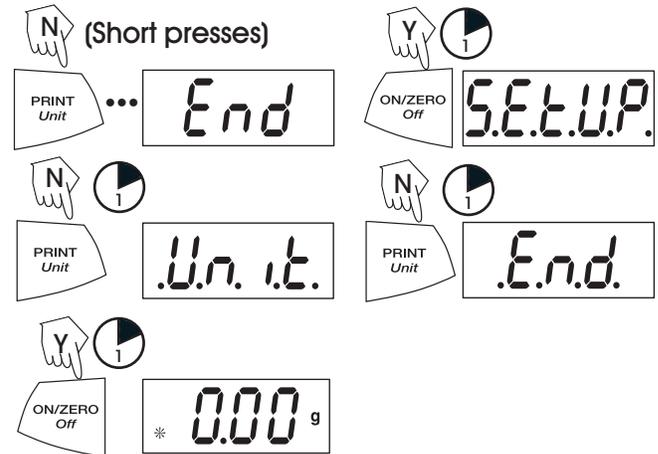
TURNING DISPLAY HOLD OR TOTALIZE MODE ON

NOTE: Only one mode can be active at one time. Start at the .S.E.T.U.P. menu.



EXITING THE .S.E.T.U.P. MENU

Select ON/OFF or YES/NO to desired menu items, proceed to .E.N.D. menu.

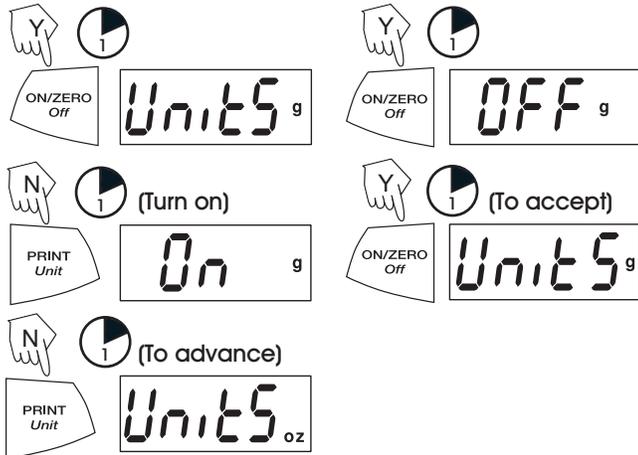


OPERATION CONTINUED

ENTERING THE .U.N.I.T. MENU

The .U.N.I.T. menu contains units of measure, PC (parts counting), % weighing and END. Units vary with the model type. Determine which units are to be turned on or off.

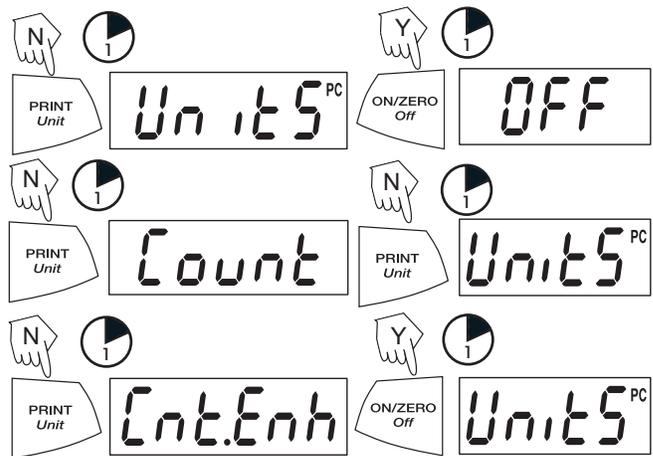
Start in the .U.N.I.T. menu. Select either **ON** or **OFF** for each unit.



NOTE: Repeated presses of PRINT Unit button will go through all units, you then may select ON or OFF. Parts Counting is slightly different.

PARTS COUNTING

Two types of counting modes are available: standard or enhanced.



EXITING THE .U.N.I.T. MENU

Use the same procedure as exiting the .S.E.T.U.P. Menu.

CALIBRATION

CALIBRATION VALUES

ULINE MODEL NO.	H-2709	H-2710	H-2111	H-2382	H-2383	H-2384	H-2712	H-3054	H-2713
OHAUS MODEL NO.	SPx202	SPx402	SPx602	SPx401	SPx601	SPx2001	SPx4001	SPx6001	SPx6000
Span Calibration Mass (g)	0, 200	0, 200	0, 300	0, 200	0, 300	0, 2000	0, 4000	0, 6000	0, 4000
Linearity Calibration Mass (g)	0, 100, 200	0, 200, 400	0, 300, 600	0, 200, 400	0, 300, 600	0, 1000, 2000	0, 2000, 4000	0, 3000, 6000	0, 3000, 6000

SPAN CALIBRATION

Span calibration uses two calibration points, zero and a specified calibration weight.

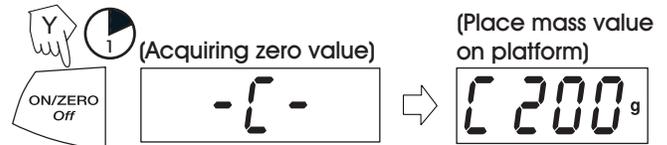
Before beginning calibration, make sure the Lock Switch is unlocked. Clear the platform.

NOTE: Value of calibration mass depends on capacity of balance. After calibration, the balance returns to the currently selected weigh mode.

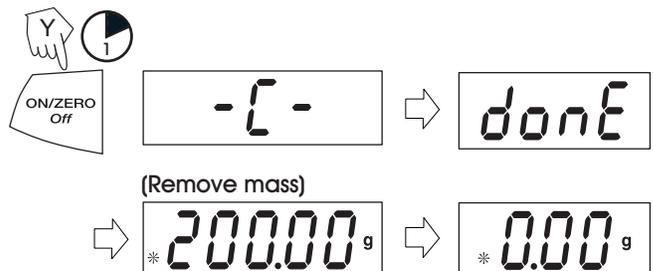
1. Start with the balance OFF.
2. Hold the **ON/ZERO Off** button until the display reads **MENU CAL**.



3. Press and release **ON/ZERO Off**. Scale will flash **-C-** and show required weight. Place the calibration weight on the scale.



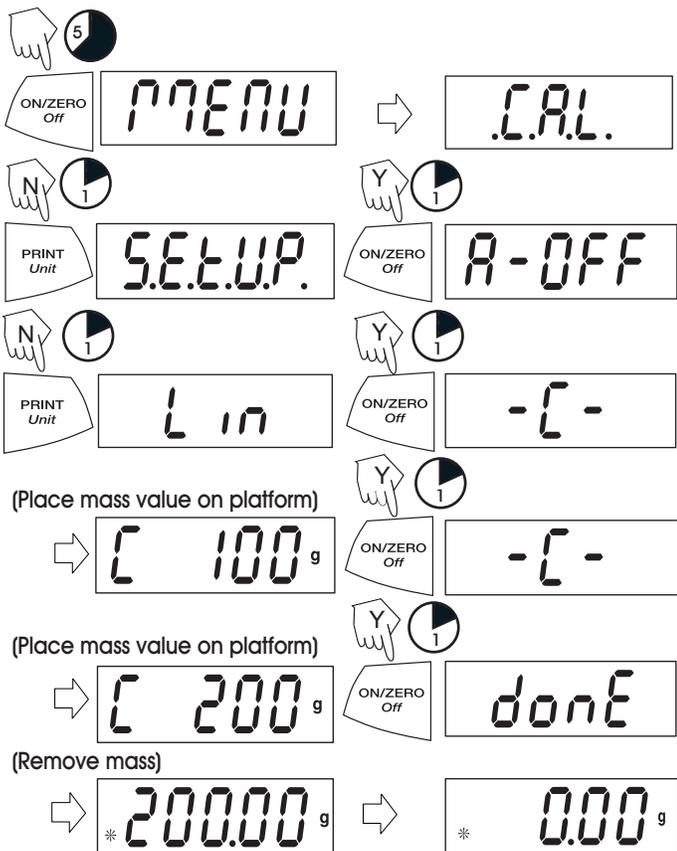
4. Press and release **ON/ZERO Off**. Scale will show **done**; remove weight.



OPERATION CONTINUED

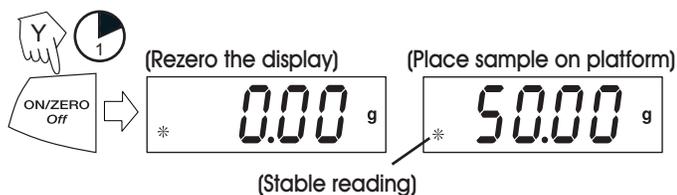
LINEARITY CALIBRATION

Linearity calibration uses three calibration points; zero, mid-scale and full scale. Lin Cal must be selected and set to YES in the .S.E.T.U.P. Menu. Before beginning calibration, make sure the menu Lock Switch is unlocked. Clear the platform. Start with the balance OFF.



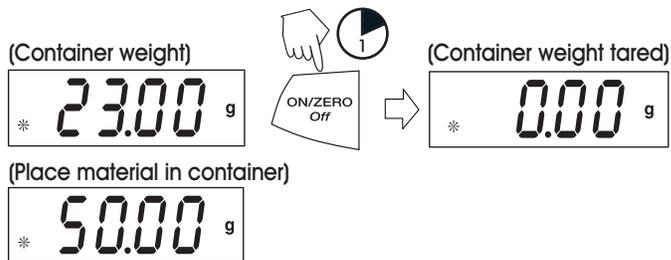
WEIGHING

Start with the balance on.



WEIGHING WITH TARE

Taring zeros the container weight. With the balance on, place an empty container on the platform.



NOTE: Removing the container and material from the platform will cause the balance to display the container's weight as a negative number. The tared weight remains until ON/ZERO Off button is pressed again or the balance is turned off.

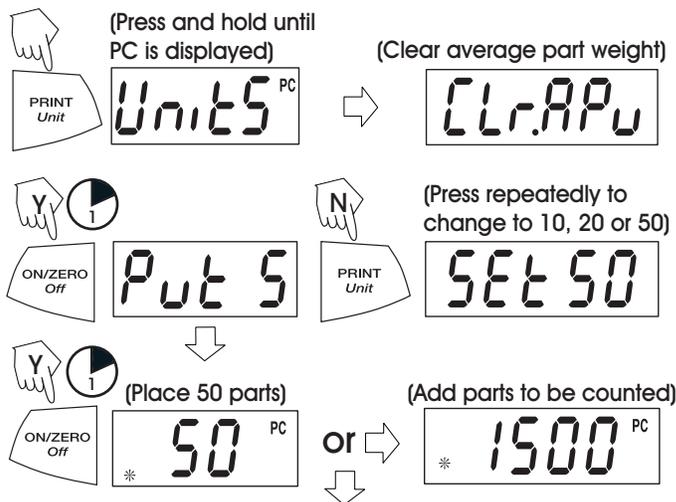


PARTS COUNTING

Parts Counting is enabled only when PC is turned ON in the .U.N.I.T. menu. In parts counting mode, there are two modes of parts counting, standard and enhanced.

STANDARD PARTS COUNTING

In standard parts counting, the balance determines the quantity based on the average weight of the parts in the original reference quantity.

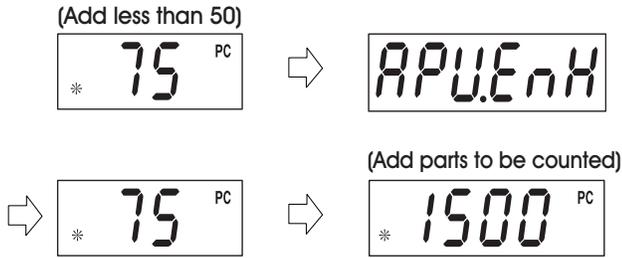


OPERATION CONTINUED

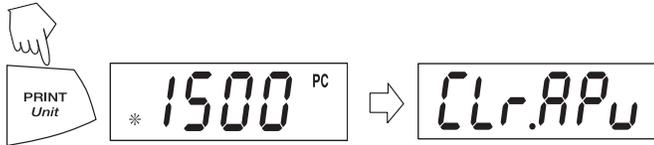
ENHANCED PARTS COUNTING

In the enhanced mode, additional parts can be added to the platform equal to or less than the original number. The additional reference quantity produces a more accurate average part weight.

 **NOTE:** Enhanced Parts Counting can be repeated as many times as necessary providing the quantity added is less than the original entry.



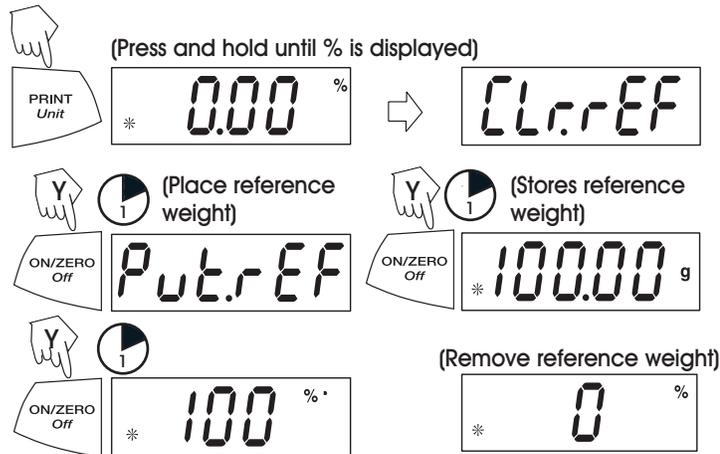
To count different parts, press and hold, until PC reappears, release *Unit* button.



PERCENT WEIGHING

Percent Weighing is enabled only when Percent is turned ON in the .U.N.I.T. menu. Percent weighing permits placing a reference weight on the balance, then viewing other loads as a percentage of the reference. The reference weight equals 100%.

Start in the weighing mode and zero the display.

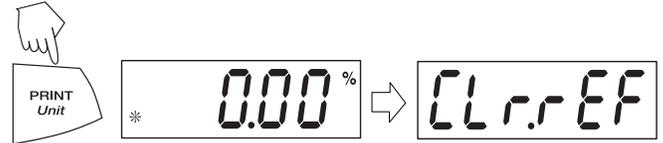


Place load on the platform to display percent of reference weight.



ESTABLISHING A NEW REFERENCE WEIGHT

Press and hold until % on the display reappears, then release.



Repeat above procedure for new a reference weight.

EXITING PERCENT WEIGHING

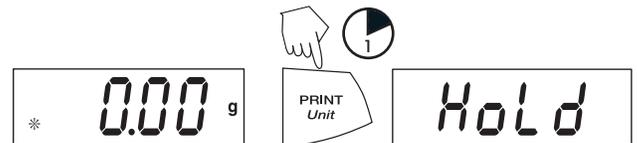
Press and hold until desired unit is displayed.



DISPLAY-HOLD

Display-Hold is enabled only when Hold is turned ON in the Mode submenu in the .S.E.T.U.P. menu. Display-Hold mode captures and stores the highest stable value. When displayed, the stable icon will blink.

 **NOTE:** Units cannot be changed when in display hold mode.



(Place item(s) on platform)



EXITING DISPLAY HOLD



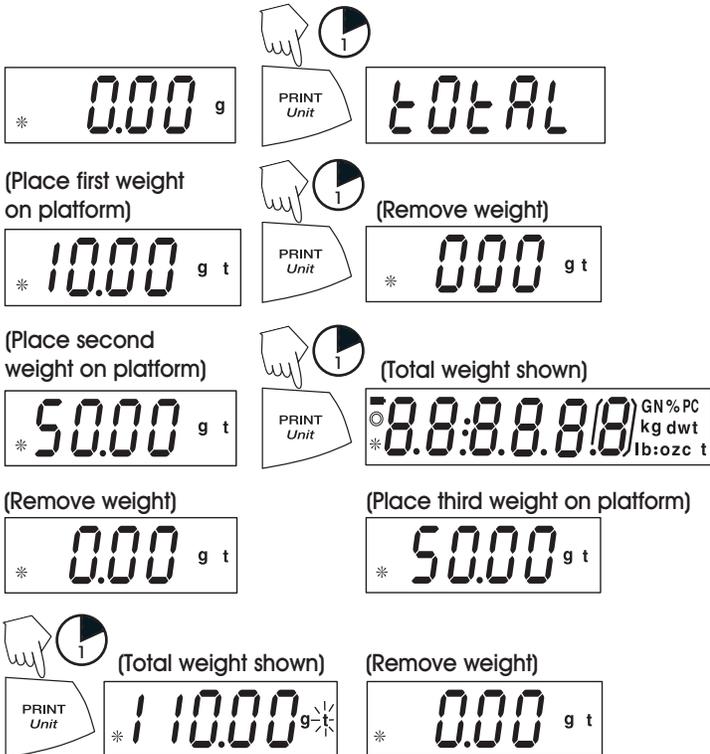
To return to display-hold, repeat above procedure.

OPERATION CONTINUED

TOTALIZE

Totalize is enabled only when Total is turned ON in the Mode submenu in the .S.E.T.U.P. menu. Totalize allows storage of a series of weight measurements. Totalize mode has been initiated when "t" and the current unit, i.e., (g) is displayed. When totaled weight is shown, the "t" indicator will blink.

 **NOTE:** Units cannot be changed when in display hold mode.



Total weight will remain on the display until weight is removed. The total weight remains in memory. Total is limited to 999999.

CLEAR/EXIT TOTALIZE

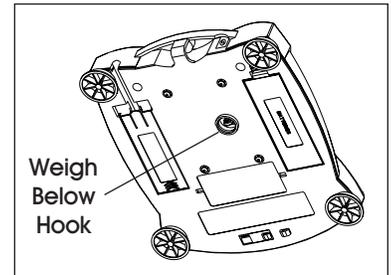
Performing this step will erase all totaled memory.



ADDITIONAL FEATURES

WEIGH BELOW

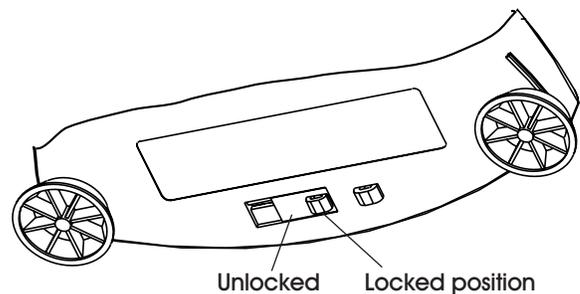
Scout Pro permits below balance weighing for applications such as specific gravity/density determination. The balance is normally elevated, supported on all feet and leveled. A fine wire is attached to the built-in hook at the bottom of the balance



LOCK SWITCH

The Lock Switch is located under the balance. The Lock Switch is used to lock out the menu mode preventing unauthorized changes.

To lock the menus, position the Lock Switch next to the tab on the bottom of the balance as shown.



MAINTENANCE

CLEANING

To ensure proper balance operation, keep the housing platform clean. If necessary, a cloth dampened with a mild detergent may be used. Check under the platform for debris and remove.

 **NOTE:** Keep calibration masses in a safe, dry place. Unplug the AC Adapter when not in use. For long term storage, remove the batteries.

TROUBLESHOOTING

OPERATING ISSUE	CAUSES	RECOMMENDATIONS
No display.	Power Adapter not connected. Batteries are exhausted.	Connect AC adapter. Replace batteries.
Battery Indicator is flashing.	Batteries are weak.	Replace batteries.
Incorrect weight reading.	Balance out of calibration. Balance was not rezeroed before weighing.	Calibrate the balance. Press the ON/ZERO Off button with no weight on the platform, then weigh item.
Calibration procedures do not work.	Incorrect calibration masses being used.	Use correct masses. See error codes note ERR4.
Unable to switch unit of measure.	Weighing unit not activated in menu. Mode prevents unit change.	Use Units menu to set desired units ON. Exit Hold or Totalize mode.
Balance readings unstable.	Balance location may have drafts from air conditioning vents or vibration from other appliances nearby affecting operation.	Either move or shield the balance from external air currents or vibration.
Err 1 chEct	Invalid checksum data.	Cycle balance ON/OFF. Return balance for service.
Err 2 LoAd	Overload (>cap+90d) or Underload.	Remove load. Make sure shipping lock is unlocked. Recalibrate.
Err 4 WEIght	Incorrect calibration weight.	Use correct calibration weights. Check environmental conditions.
Err 5 999999	Displayed value>99999.	Exit application. Rezero balance.
Err 6 count	Parts counting error – balance exits parts counting.	Exit application. Rezero balance.
Err 8 FULL	RS232 buffer is full.	Cycle ON/OFF. Check RS-232 settings in balance and computer.
Err 9 dAtA	Internal data error. The next button press or a 5 second time-out causes the balance to turn off.	Cycle ON/OFF. Return balance for service.

If the troubleshooting section does not resolve your problem, contact ULINE Customer Service at 1-800-295-5510.