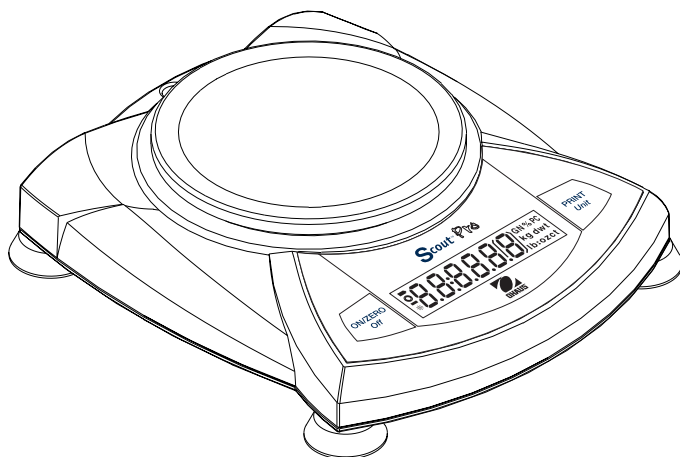




# Scout® *Pro* Balance Instruction Manual






## Declaration of Conformity

The undersigned, representing the following manufacturer

Ohaus Corporation  
19A Chapin Road  
P.O. Box 2033  
Pine Brook, NJ 07058  
USA

hereby declares that the following products are in conformity with the EEC directives listed below (including any and all modifications).

Balance models: SP123, SP202, SP401, SP402, SP601, SP2001, SP2001N, SP4001, SP6000, SPE123, SPE202, SPE402, SPE401, SPE601, SPE2001, SPE4001, SPE6000, SPU123, SPU202, SPU402, SPU401, SPU601, SPU2001, SPU4001 SPU6000, SPG123F, SPG202F, SPG402F, SPG401F, SPG601F, SPG2001F, SPG4001F, SPG6000F, SPS202F, SPS402F, SPS401F, SPS601F, SPS2001F, SPS4001F, SPS6000F, JS40, JS500, JS1200

Marking	Directive	Standard
	73/23/EEC Low Voltage Basse tension Baja tensión	EN60950: 1992 + A1: 1993 + A2: 1993 + A3: 1995 + A4: 1997  Safety of information technology equipment.  Seguridad de los equipos de tratamiento de la información incluyendo los equipos eléctricos de oficina.  Sécurité des matériels de traitement de l'information.
	Electromagnetic compatibility Compatibilité électromagnétique Compatibilidad electromagnética	Electrical equipment for measurement, control and laboratory use (Class B)  Matériels électriques de mesure, de commande et de laboratoire — Prescriptions relatives à la CEM (Class B)  Equipo eléctrico de medida, control y uso en laboratorio — Requisitos de compatibilidad electromagnética (Class B)

Last two digits of the year which the CE marking was affixed: 03

**ISO 9001 Certificate for Ohaus Corporation** — Ohaus Corporation, USA was examined and evaluated in 1994 by the Bureau Veritas Quality International (BVQI) and was awarded the ISO 9001 certificate. This certifies that Ohaus Corporation, USA, has a quality system that conforms to the international standards for quality management and quality assurance (ISO 9000 series). Repeat audits are carried out by BVQI at intervals to check that the quality system is operated in the proper manner.



Ted Xia  
President

Ohaus Corporation  
Pine Brook, NJ USA

Date: September 22, 2003



Urs Müller  
General Manager  
Ohaus Europe

Greifensee, Switzerland

Date: September 22, 2003

**FCC NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CANADIAN NOTE:**

This class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



13123

AS/NZS4251.1

AS/NZS4252.1 Emission and Immunity

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## 1. INTRODUCTION

The Scout *Pro* offers parts counting with auto optimization, display hold, totalize and % weighing. Models are available with ranges from 200g to 6000g.

Scout *Pro* standard features include:

- Battery or AC operation (AC adapter included)
- Integral security bracket
- Programmable auto shut-off
- Span calibration masses included on certain models
- Optional USB or RS232 interface available

### Safety Precautions

Please follow the safety precautions as listed:

#### CAUTION:

- Do not operate the balance around corrosive fumes.
- Use only the adapter provided with the balance.
- Do not try to service the Scout *Pro* balance.
- Before plugging in the balance, make sure that the voltage rating of the power adapter and the AC supply voltage match.



## 2. INSTALLATION

### Unpacking

Inform your Ohaus dealer if parts are missing.

Your Scout *Pro* package contains:

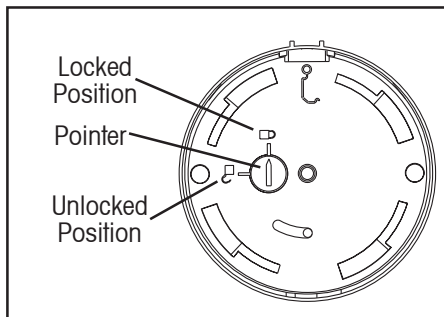
- Scout *Pro* Balance
- Warranty card
- AC Power Adapter
- Platform
- Instruction Manual
- Calibration Masses ( on certain models)

Store the packaging material for future transport.

## Installing Components

### Releasing the Shipping Lock

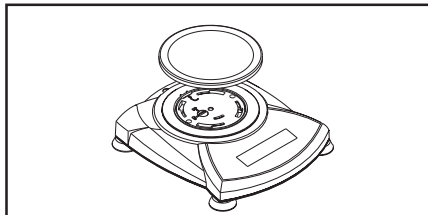
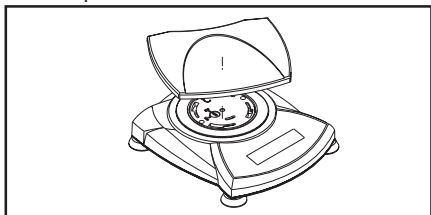
On top of the balance, turn the pointer 90 degrees counter-clockwise to unlock.



Releasing the Shipping lock.

### Platform Installation

Balances with a rectangular platform are placed into the subplatform as shown and rotated counter-clockwise until it locks. Round platforms are placed straight down on subplatform.



Platform Installations.

### Security Bracket

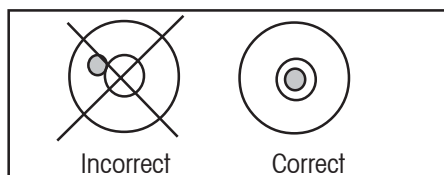
A security bracket is provided at the rear of the balance allowing the balance to be secured by an optional cable and lock accessory.

## Selecting the Location

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

### Balances with Level Adjustment

Balances containing leveling feet and a bubble level must be leveled before using. See illustration for correct leveling.



Bubble Level indicator



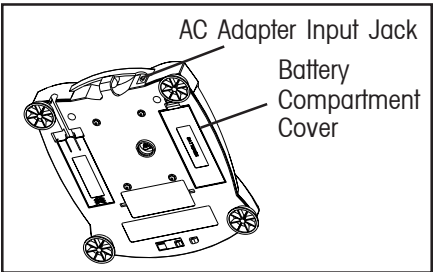
Connecting Power

Battery Installation

Install the Four "AA" batteries with polarity as shown in the battery compartment.

AC Adapter Installation

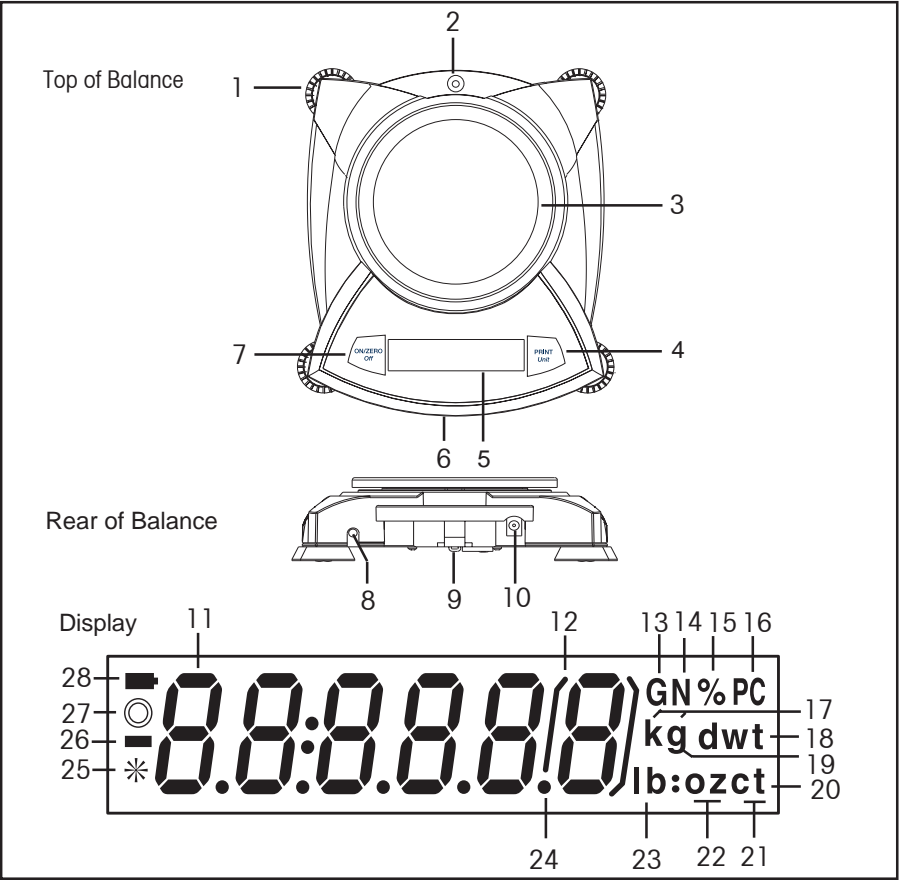
Plug the AC adapter into the jack at the rear of balance.




Battery and AC Power Connections

3. OPERATION

Overview of Controls and Display Functions



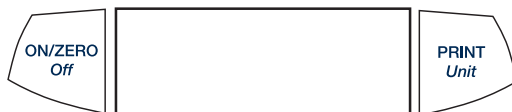
No.	Designation	Function
1.	Feet <sup>1</sup>	Provides leveling for certain models.
2.	Spirit Level <sup>1</sup>	Provides level indication.
3.	Platform	Weighing platform, either round or rectangular.
4.	PRINT <i>Unit</i> button	Prints data, scrolls through units, steps through menu options.
5.	Display	LCD display with icons.
6.	Lockswitch	Locks certain menu functions, located under balance.
7.	ON/ZERO <i>Off</i> button	On/Off, Zero, enters menu, accepts menu settings.
8.	USB or RS232 port	Optional kit for either RS232 or USB operation.
9.	Security Bracket	Part of balance for optional external cable and lock.
10.	Power Input Jack	Connector for AC adapter.
11.	7-segment LCD	Part of 6-digit LCD display.
12.	Brackets	Auxilliary indication.
13.	G	(not used)
14.	N	(not used)
15.	%	Indicates percent weighing.
16.	PC	Indicates pieces during parts counting.
17.	kg	Indicates weight in kilograms. (certain models)
18.	dwt	Indicates weight in pennyweights.
19.	g	Indicates weight in grams.
20/22.	oz t	Indicates weight in troy ounces. (certain models)
20.	t	Indicates weight in totalize mode (or tael in certain models).
21.	ct	(not used)
22.	oz	Indicates weight in ounces.
23/22.	lb:oz	Indicates weight in pound:ounces. (certain models)
23.	lb	Indicates weight in pounds. (certain models)
24.	•	Decimal point.
25.	*	Stability indicator, indicates stable weight and Display Hold when flashing.
26.	-	Negative sign.
27.	○	(not used)
28.		Battery indicator flashes when battery is down to approximately 20 minutes of power remaining.

NOTES: 1. Certain models are provided with leveling feet and spirit level.

2. Unit measurement varies by model.

## Button Functions

Two switches provide the necessary functions to access a given menu, select a function and to turn it on or off. Functions are listed as follows:



### ON/ZERO Off Button

**Primary Function (ON/ZERO)**- Turns on balance. If balance is on, zeros the display.

**Secondary Function (Off)**- Turns balance off, **OFF** will be displayed after button is held for 3 seconds. In Display Hold or Totalize mode, a long press exits the mode without turning the balance off.

**Menu Function**- 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.

### PRINT Unit Button

**Primary Function (PRINT)**- Sends print command to interface port. If Display Hold or Totalize mode is active, a short press will enter that mode.

**Secondary Function (Unit)**- Press and hold scrolls through units. Release on desired unit.

**Menu Function**- Will bypass setting shown on display.

Symbols Used for Operation of the Balance

Symbols are used to simplify the setup and operation of the balance. A description of each symbol follows:



Press

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 actually appear on the balance. A model with 200g capacity was used for the displays shown in this manual.

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



Indicates advances to next display.

Turning the Balance On

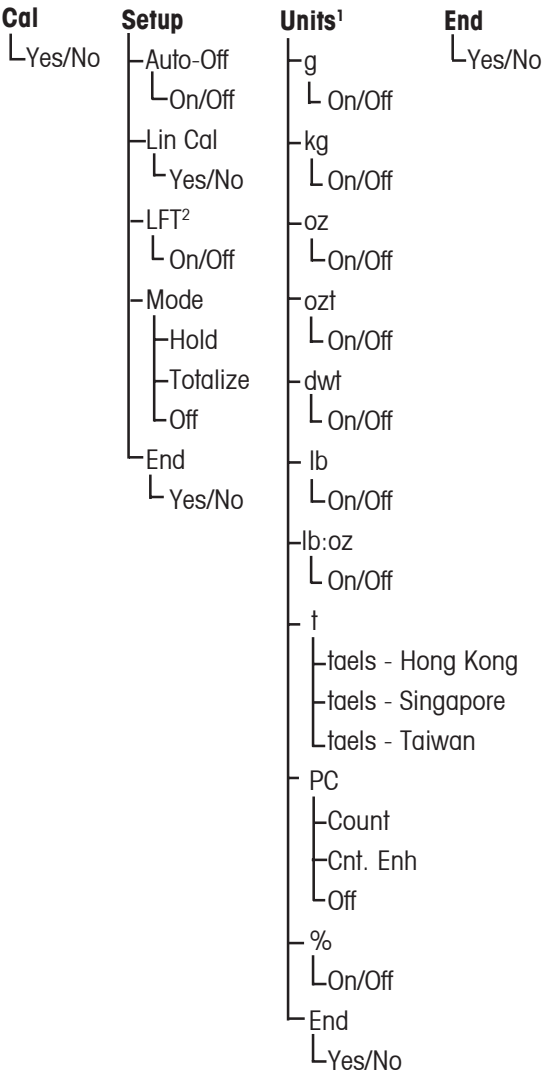


Turning the Balance Off



Navigating the Menus

Menu Structure



NOTES:

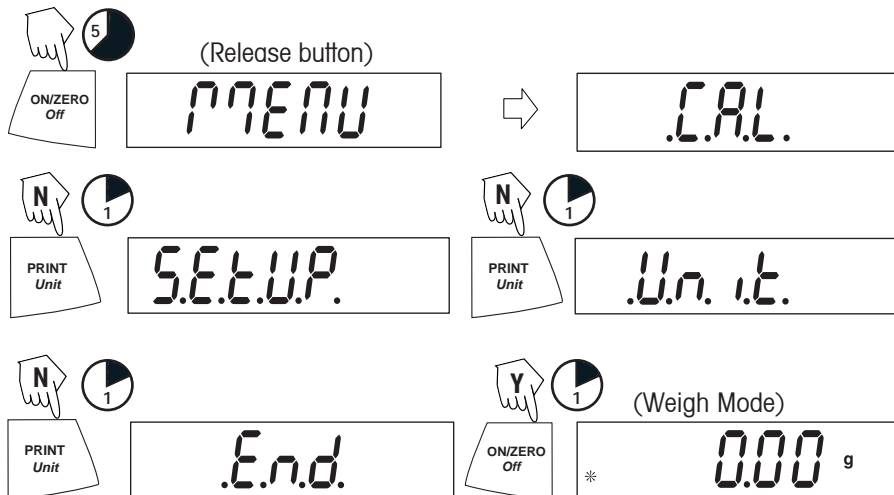
- 1. Refer to specification table for available units.
- 2. LFT models only.

## 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.**

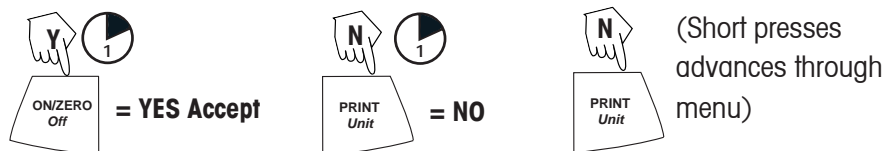
**Start with the balance off and the Lock Switch off** (see page 21).

The sequence is shown below.



## Accepting / Bypassing an Individual Menu Item

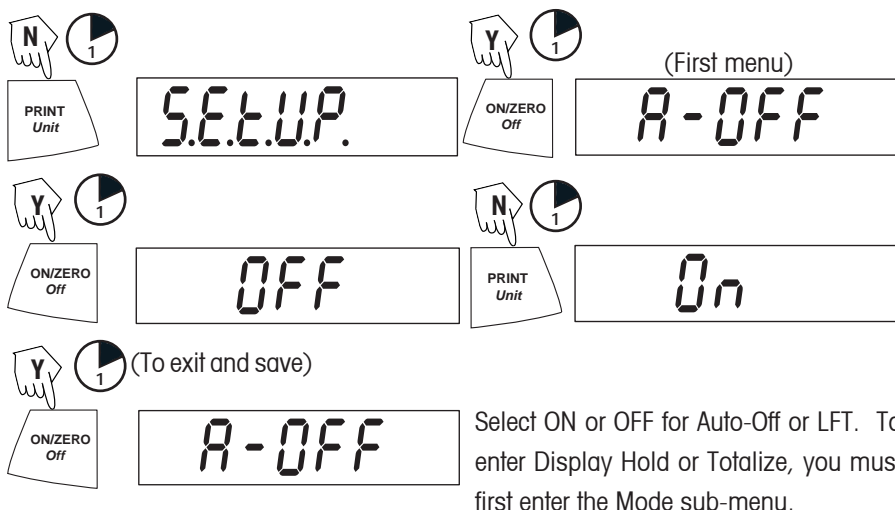
Start with menu item displayed.



## Entering the **.S.E.T.U.P.** Menu

The **.S.E.T.U.P.** menu contains Auto-Off, LFT (in certain models), Linearity Calibration, Mode (Display Hold, Totalize) and END. Auto-Off and LFT can be turned on or off. Display Hold, and Totalize require entering the Mode submenu.

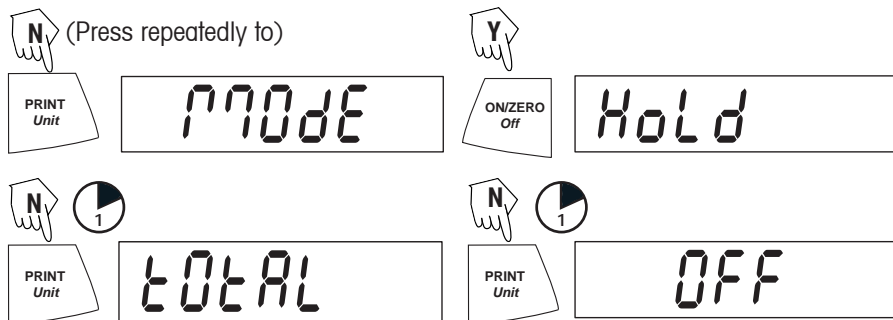
Starting from the **.C.A.L.** menu.



## Turning Display Hold or Totalize Mode On

**NOTE:** Only one mode can be active at one time.

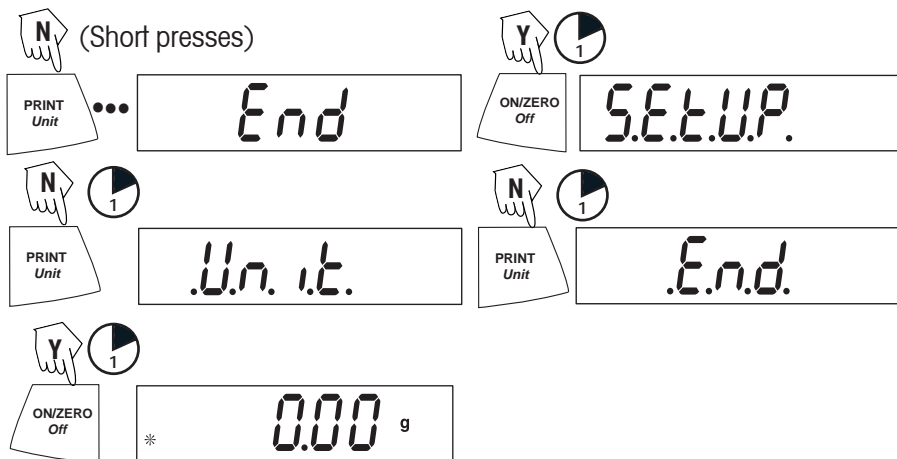
Start at the **.S.E.T.U.P.** menu.



Press YES to desired mode, then continue.

## Exiting the **.S.E.T.U.P.** Menu

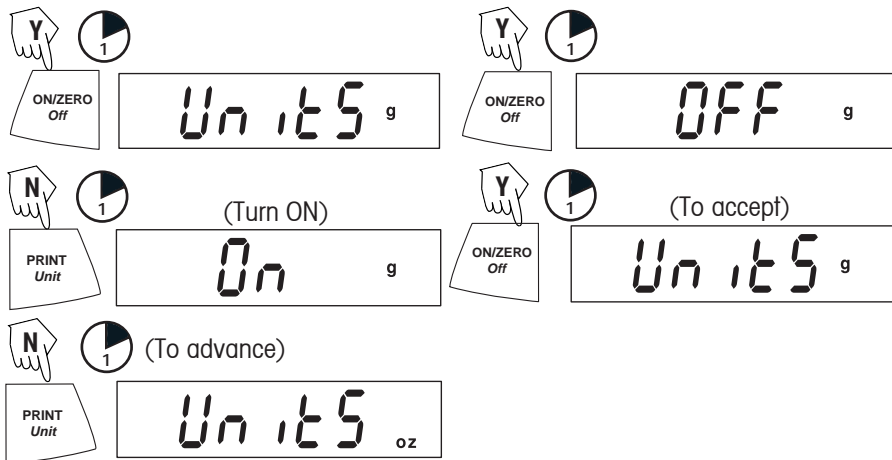
Select ON/OFF or YES/NO to desired menu items, proceed to **.E.N.D.** menu.



## 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.

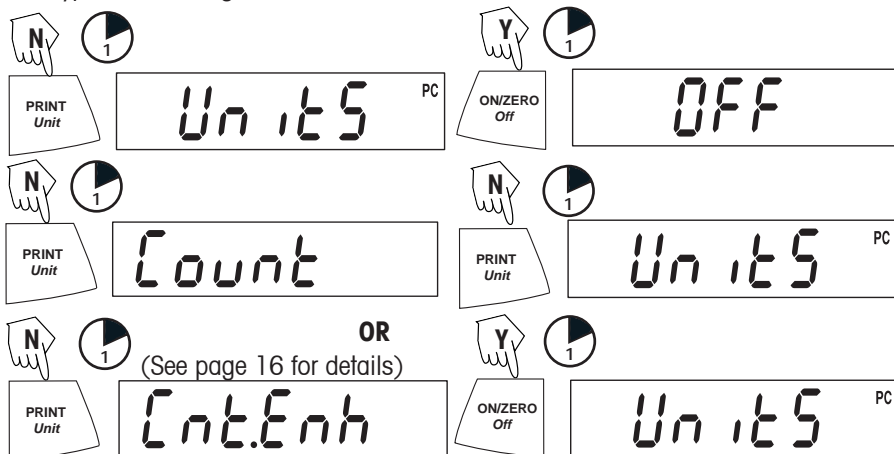


**NOTE:** Repeated presses of **PRINT Unit** button will go through all units, you then may select ON or OFF. Parts Counting is slightly different.



## 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.

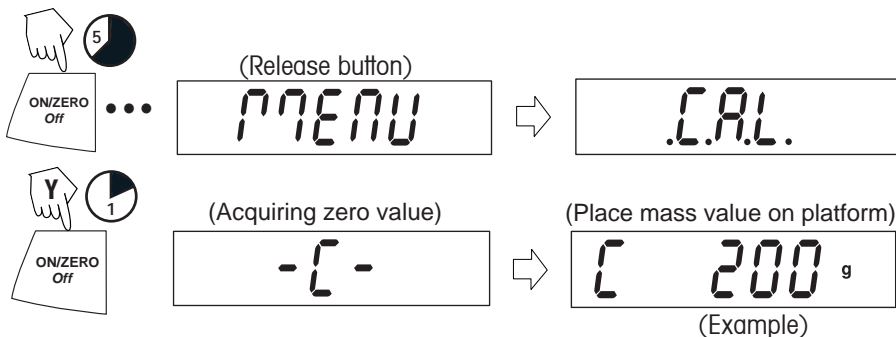
## Calibration

### Span Calibration

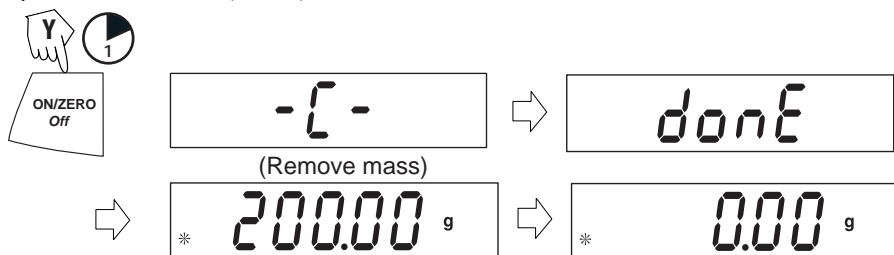
Span calibration uses two calibration points, zero and a specified calibration weight. Before beginning calibration, make sure the Lock Switch is off. Clear the platform.

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

Start with the balance OFF.



## Span Calibration (Cont.)

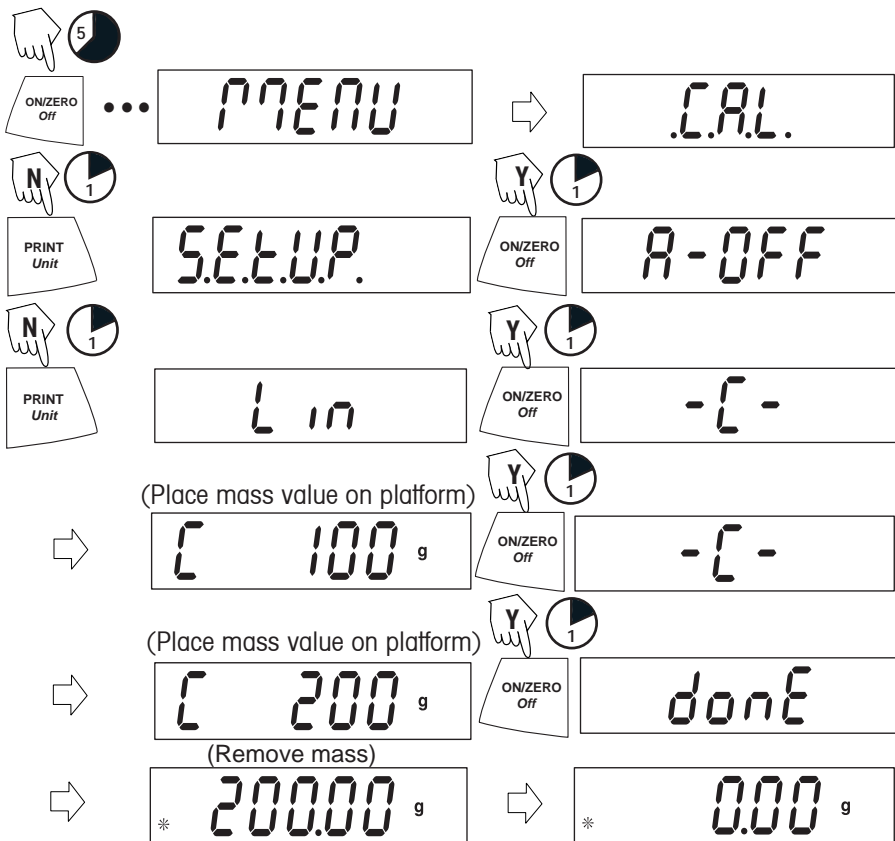


## Linearity Calibration

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 off. Clear the platform.

Start with the balance OFF.

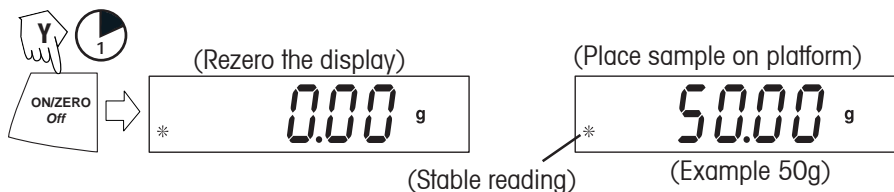


## Applications

Scout Pro applications include: Weighing, Parts Counting, Percent Weighing, Display Hold and Totalize.

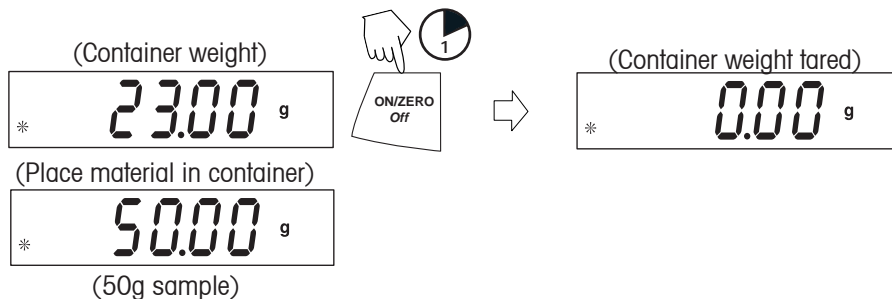
### Weighing

Start with the balance on.



### Weighing with Tare

Taring zeros the container weight. With the balance on, place an empty container on the platform. (Display example indicates a container weight of 23g.)



**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.

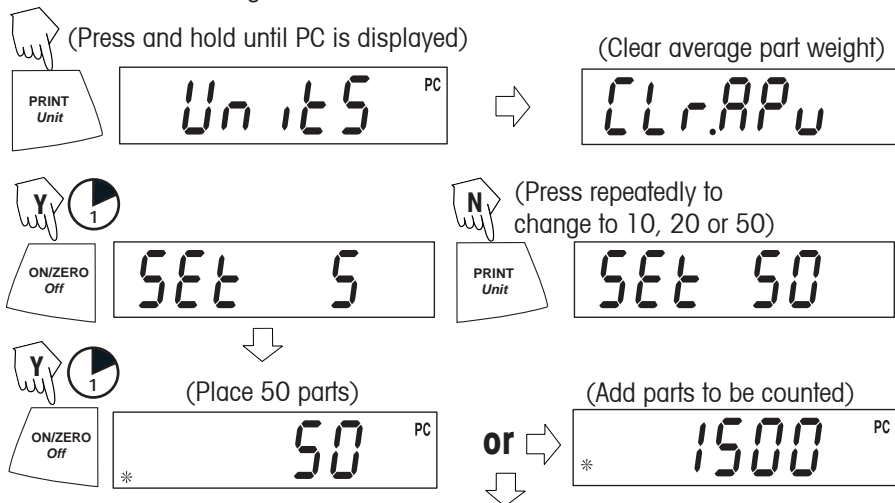
(Remove container with material)



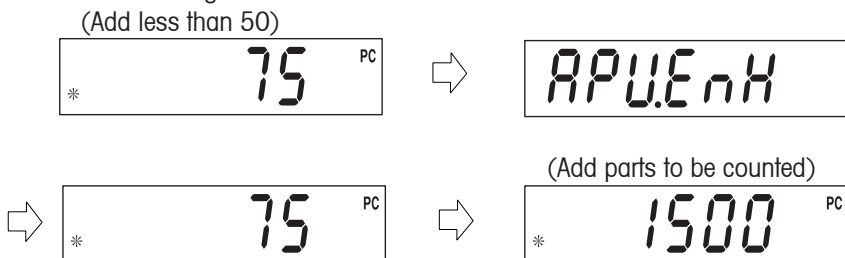
## Parts Counting

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

### Standard Parts Counting



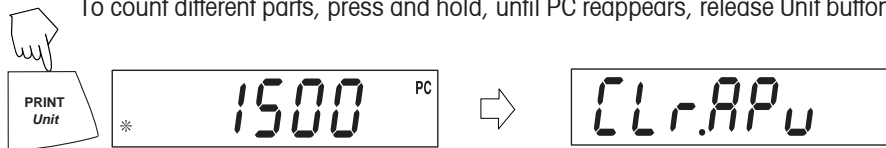
### Enhanced Parts Counting



**NOTE:** The preceding procedure for enhanced counting can be repeated as many times as necessary providing the quantity added is less than the original entry.

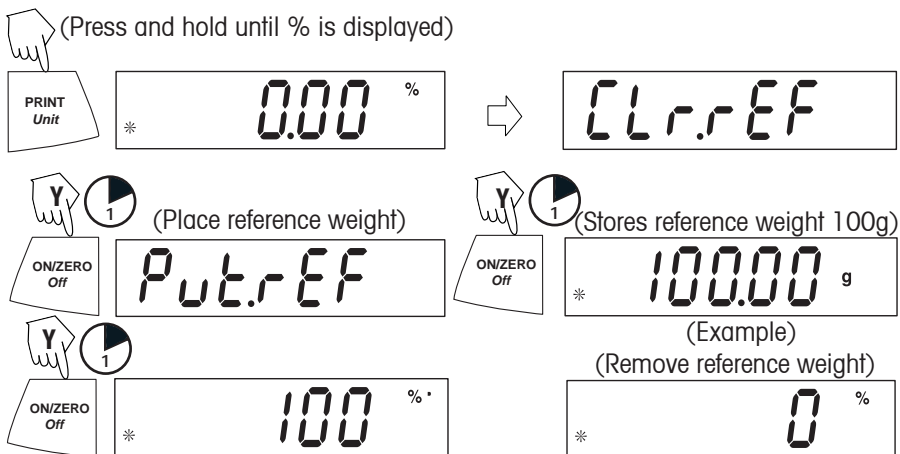
## Parts Counting (Cont.)

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

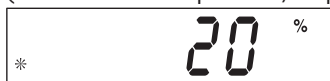


## Percent Weighing

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.



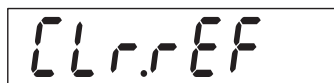
(Place load on the platform, display indicates percentage of reference weight.)



## 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



HLd.OFF

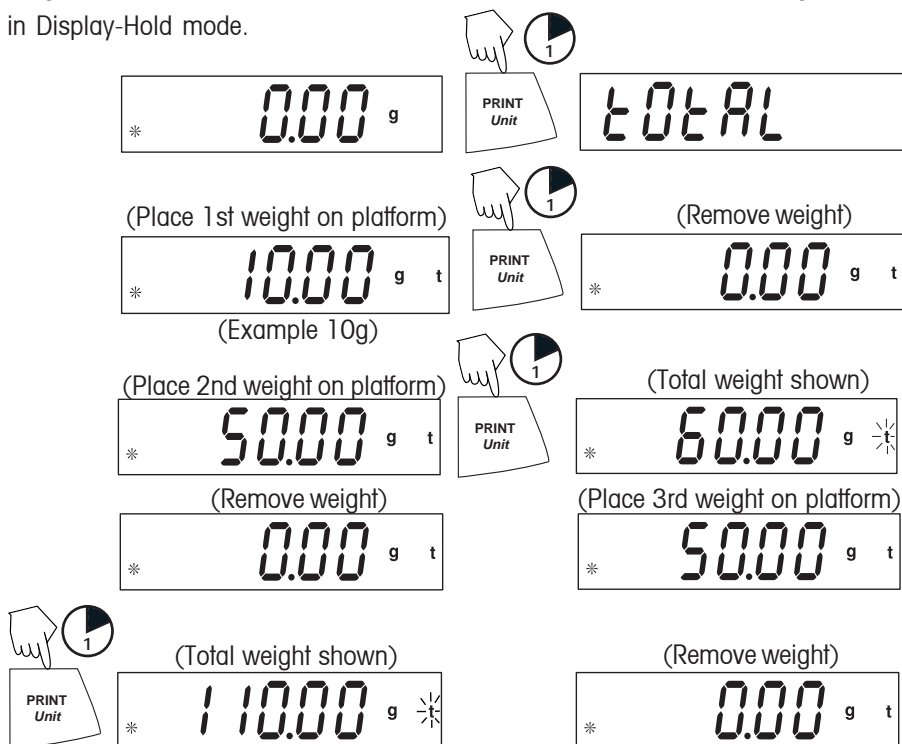


\* 10.00 g

To return to display hold, repeat above procedure.

## Totalize

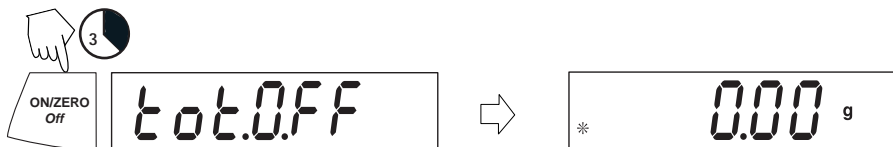
Totalize is *enabled only* when Total is turned ON in the Mode submenu in the **.S.E.T.U.P.** menu. Totalize allows storage of a series of weight measurements. Totalize mode has been initiated when "Y" and the current unit, i.e. (g) is displayed. When totalized weight is shown, the "Y" indicator will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

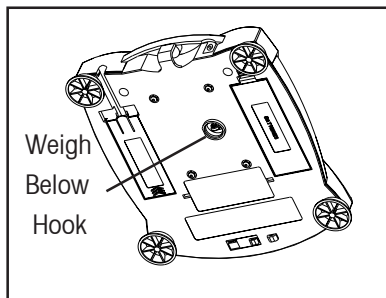
Performing this next step will erase all totalized memory.



## Additional Features

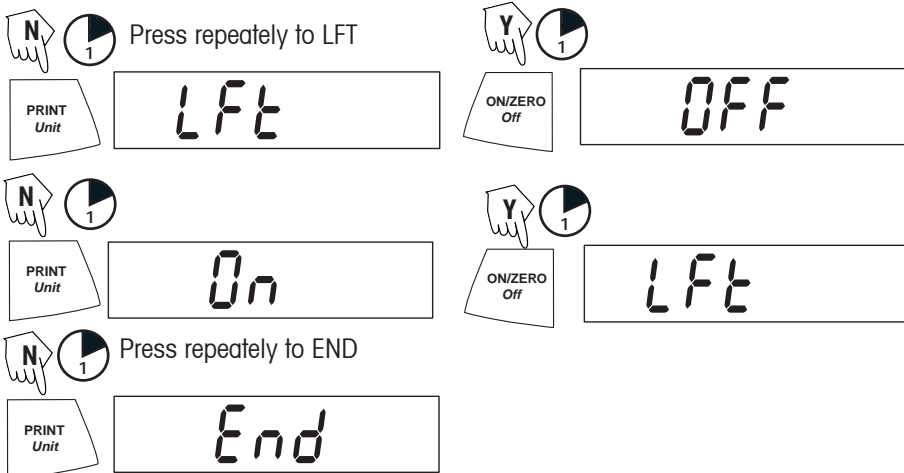
### Weigh Below

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 (see illustration).



### LFT (Legal for Trade on certain balances)

When LFT is activated, balance parameters such as Linearity Calibration, and various units of measure are turned off as required for local weights and measures approval. Review Lock Switch and Sealing the Balance procedures on page 21 before proceeding. To initiate LFT, start in the **.S.E.T.U.P.** menu.

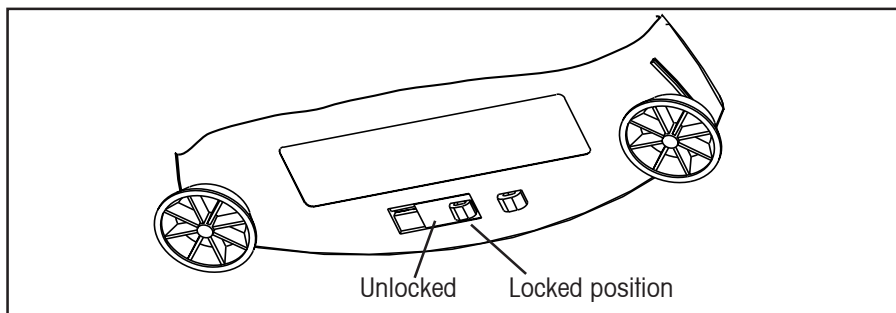




### Lock Switch

The Lock Switch is located under the balance and operates two different ways depending on the model. In LFT models, the Lock Switch locks the calibration settings and other parameters required for approval. In non-approved models, 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.

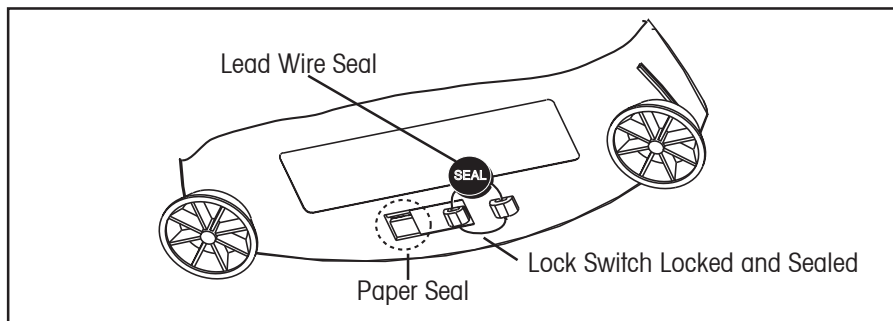


Lock Switch

### Sealing the Balance

After a weights and measures official has tested and approved the scale, it must be sealed.

With the Lock Switch in the ON (locked) position, pass the sealing wire through the hole in the Lock Switch and the tab and secure with a lead seal or paper seal. See illustration.



Sealing the Balance

## 4. MAINTENANCE

### Cleaning

To ensure proper balance operation, keep the housing and platform clean. If necessary, a cloth dampened with a mild detergent may be used. Check under the platform for debris and remove. Keep calibration masses in a safe dry place. Unplug the AC Adapter when not in use. For long term storage, remove the batteries.

### Troubleshooting

SYMPTOM	PROBABLE CAUSE	REMEDY
No display.	1. Power Adapter not connected. 2. Batteries are exhausted.	1. Connect AC Adapter. 2. Replace batteries.
Battery Indicator is flashing.	Batteries are weak.	Replace batteries.
Incorrect weight reading.	1. Balance out of calibration. 2. Balance was not rezeroed before weighing.	1. Calibrate the balance. 2. Press the <b>ON/ZERO Off</b> button with no weight on the platform, then weigh item.
Calibration procedures do not work.	Incorrect calibration masses being used.	1. Use correct masses. 2. See error codes note ERR4.
Unable to display weight in a particular weighing unit.	1. Weighing unit not activated in menu. 2. Mode prevents unit change.	1. Use Units menu to set desired units ON. 2. 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.
Error code is displayed.	Various internal and external problems	Review error code table and take appropriate action.

## Error Codes List

When internal and some external problems occur with the balance, the internal software will display messages as error codes. Explanations are given for possible problems. Try remedies in order indicated.

### Error Codes

- |                     |   |
|---------------------|---|
| <b>Err 1 chEct</b>  | Invalid checksum data<br>a) Cycle balance ON/OFF,<br>b) Return balance for servicing  |
| <b>Err 2 LoAd</b>   | Overload (>cap+90d) or Underload<br>a) Remove load,<br>b) Check shipping lock,<br>c) Recalibrate.   |
| <b>Err 4 WEIght</b> | Incorrect calibration weight<br>a) Use correct calibration weights,<br>b) Check environmental conditions.   |
| <b>Err 5 999999</b> | Displayed value >99999<br>a) Exit application,<br>b) Rezero balance.  |
| <b>Err 6 count</b>  | Parts counting error - balance exits parts counting<br>a) Exit application,<br>b) Rezero balance.   |
| <b>Err 8 FULL</b>   | RS232 buffer is full<br>a) Cycle ON/OFF,<br>b) Check RS-232 settings in balance and computer.   |
| <b>Err 9 dAtA</b>   | Internal data error. The next button press or a 5 second time-out causes the balance to turn off<br>a) Cycle ON/OFF,<br>b) Return balance for servicing |

## Accessories

	Part No.
RS232 Interface Kit (includes cable)	71147376
USB Interface Kit (includes cable)	71147377
Security Device	76288-01
Hard Shell Carrying Case	77256-01
Impact Printer	SF42
Impact Printer Paper 5 pack	78204-01
Cable for SF42 Printer	AS017-06
Scoops: Aluminum,	
3.62 x 4.50 x 1.0"/9.20 x 11.34 x 2.54 cm	4590-10
Black anodized, aluminum,	
3.62 x 4.50 x 1.0"/9.20 x 11.34 x 2.54 cm	4590-30
Aluminum,	
1.5 x 2.00 x 0.43"/3.81 x 5.08 x 1.11 cm	5076-00
Gold anodized aluminum,	
2.25 x 3.00 x 0.75"/5.71 x 7.62 x 1.90 cm	5077-00
Calibration Masses:	
See specification table for required masses.	
100g	51015-05
200g	51025-06
300g	51035-05
500g	51055-06
1000g	51016-06
2000g	51026-02
AC Adapters:	
120V/60Hz USA	12102320
230V/50Hz Europe	12102321
230V/60Hz Australian	12102323
230V/50Hz UK	12102322
100V/50Hz Japan	12102324
230V/60 Hz China	12104881

## 5. TECHNICAL DATA

### Specifications

Item No.	SPx202	SPx402	SPx401	SPx601	SPx2001	SPx4001	SP6000
Capacity (g)	200	400	400	600	2000	4000	6000
Span Calibration Mass (g)	200	400	400	600	2000	4000	6000
Linearity Calibration Mass (g)	100	200	200	300	1000	2000	3000
Readability (g)	0.01		0.1				1.0
Repeatability (Std. dev.(g)	0.01		0.1				1.0
Linearity (g)	±0.01		±0.1				±1.0
Weighing modes	g, oz, ozt, dwt, tael <sup>1</sup> %, Parts Counting			g, kg <sup>2</sup> , oz, ozt, dwt, lb, lb:oz, tael <sup>1</sup> %, Parts Counting			
Tare range	To capacity by subtraction						
Over range capacity	Capacity +90d						
Stabilization time	3 seconds						
Operating temp. range	50° - 104°F / 10° - 40°C						
Power requirements	AC Adapter (supplied) or 4 AA batteries (not included)						
Calibration	digital calibration from keypad						
Display (in/mm)	LCD (0.6 / 15 high digits)						
Pan size (in/mm)	4.7 / 120 diam.			6.5 x 5.6 / 165 x 142			
Dimensions WxHxD (in/mm)	7.5 x 2.2 x 8.3 / 192 x 54 x 210						
Net Weight (lb/kg)	2.0 / 0.9	3.5 / 1.6					

<sup>1</sup> SPSxxx models contain 3 Tael - Hong Kong tael, Singapore tael, Taiwan tael.

<sup>2</sup> SP601/SPS601F - No kg unit.

**Capacity x Readability**

	SPx202	SPx402	SPx401	SPx601	SPx2001	SPx4001	SPx6000
gram g	200.00 x 0.01	400.00 x 0.01	400.0 x 0.1	600.0 x 0.1	2000.0 x 0.1	4000.0 x .1	6000 x 1
ounce oz	7.0550	14.1095	14.110	21.165	70.550	141.095	211.65
avoirdupois	x 0.0005	x 0.0005	x 0.005	x 0.005	x 0.005	x 0.005	x 0.05
ounce oz	6.4300	12.8605	12.860	19.290	64.300	128.605	192.90
troy	x 0.0005	x 0.0005	x 0.005	x 0.005	x 0.005	x 0.005	x 0.05
penny- dwf	128.60	257.21	257.2	385.8	1286.0	2572.1	3858
weight	x 0.01	x 0.01	x 0.1	x 0.1	x 0.1	x 0.1	x 1
pound lb				1.3230	4.4090	8.8185	13.230
avoirdupois				x 0.0005	x 0.0005	x 0.0005	x 0.005
kilogram kg					2.0000 x 0.0001	4.0000 x 0.0001	6.000 x 0.001
pound				1 lb:	4 lb:	8 lb:	13 lb:
ounces				5.16	6.55	13.10	3.65
lb:oz				x 0.01	x 0.01	x 0.01	x 0.05
taels HK	5.3435 x 0.0002	10.6870 x 0.0002	10.685 x 0.005	16.030 x 0.005	53.435 x 0.005	106.870 x 0.005	160.30 x 0.05
taels S	5.2910 x 0.0002	10.5820 x 0.0002	10.580 x 0.005	15.875 x 0.005	52.910 x 0.005	105.820 x 0.005	158.75 x 0.05
taels TAI	5.3335 x 0.0002	10.6665 x 0.0002	10.665 x 0.005	16.000 x 0.005	53.335 x 0.005	106.665 x 0.005	160.00 x 0.05

## **LIMITED WARRANTY**

Ohaus products are warranted against defects in materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period Ohaus will repair, or, at its option, replace any component(s) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to Ohaus.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product, or as a result of service or modification by other than Ohaus. In lieu of a properly returned warranty registration card, the warranty period shall begin on the date of shipment to the authorized dealer. No other express or implied warranty is given by Ohaus Corporation. Ohaus Corporation shall not be liable for any consequential damages.

As warranty legislation differs from state to state and country to country, please contact Ohaus or your local Ohaus dealer for further details.

