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Important handling Cautions and Warnings

Always handle your scale with care.

Damage caused by improper handling is not covered under the scale's warranty.



Never drop or throw any articles onto the scale's pan or onto any other parts of the unit!

DO NOT let the scale fall or drop from its tabletop surface!

When moving the scale do not press or apply force onto the scales pan!

DO NOT pass or handle liquids directly over the scale to avoid spillage and liquid damage!



CAUTIONARY NOTES AND PRECAUTIONS

The TORBAL Precision scale is a sensitive and a delicate instrument. Always handle your scale with care.

The correct location and proper environment affect the accuracy of your TORBAL Precision Scale.

The best location for your scale:





- normal
- 1.Stable, horizontal, vibration-free surface
- 2.Away from direct sunlight
- 3.Not exposed to high temperature variations
- 4. Away from direct drafts
- 5. The best location is on a stable bench away from drafts, doors, windows, radiators and air conditioner vents.

CAUTION:



- The scale is designed for indoor use only. Ο
- Do not operate the scale in hazardous areas or under dangerous conditions. 0
- Do not use the scale in locations subject to high humidity or dust levels. 0
- Do not connect cables in ways other than those mentioned in this manual. 0
- Set the scale on a firm, stable, horizontal surface. 0
- Never stand on or lean on this product. Equipment may fall or collapse, causing 0 breakage and possible injury.
- Before moving the product, unplug it and unplug all cables connected to it. 0
- When storing, transporting or returning the scale for service, use the original 0 packaging.

WARNING:



- a. Never attempt to repair, disassemble or modify the scale. Tampering with the scale may result in injury and cause greater damage to the equipment.
- b. Never swap the pan, pan base, or any other parts of the scale with pans or parts from other units. Pans and all components are uniquely assigned to each unit.
- c. Be sure to use the specified power source.
- d. Do not allow foreign matter to fall into the scale.
- e. If water or other liquids spill into the scale, unplug the power cord immediately and contact technical support

TORBAL Precision scale is a sensitive and a delicate instrument. Always handle your scale with care.



SPECIFICATIONS

TORBAL	Model		
	DRX300 s	DRX500 s	
Capacity	300g	500g	
Automatic Internal Calibration		YES	
Readability (d)		0.001	
Repeatability (Standard Divination)		0.001g	
Linearity		+/- 0.002g	
Stabilization time (typical)	Approx. 3sec		
Tare Range	-300g -500g		
Accuracy Class		II	
NTEP Certified for Prescription use and Pill Counting		YES	
Pan Dimension	120mm		
Draft Shield	Optional		
Scale Dimension	239mm x 273mm x 91mm		
Operating Temperature	+18°C to +33°C		
RS232 Port	Bidirectional – Standard		
RJ45 Network Port	Optional		
PS2 Keyboard Port		Standard	
Power Supply	Input: 120VAC 60Hz 15W Output: 12VDC 500mA		
Display Type	Graphical LCD		
Display Size	134mm x 40.4mm / 240 x 64 dots		
Weighing Units	Grams		
Scale's Net Weight (lb/kg)		4kg / 8.8lbs	
Application Modes	Pill Count	Pill Counting, NDC Verification, Compounding	
Database Capacity	10,000 NDC Entries (Includir	ng Drug Average Piece Weigh, Name, and LOT number)	
Laser Handheld Barcode Scanner		YES	
Printing		YES	
MW (Minimum Piece Weight)		30mg (3e)	
MSS (Minimum Sample Size)		10 pieces	
Sample Size Selection		10, 30, 60	



KEYS AND DISPLAY INDICATORS

Key	Primary Function	Secondary Function
/()	Power On and Power Off	-
↔T>	Tare – used to tare the weighing pan	N/A
→0←	Zero – used to zero the scale	Number "6″ key
ENTER	Enter – used to accept and confirm commands	N/A
MENU	Menu – used to access the main menu	Number "9″ key
CLR	Clear – used to clear and cancel operation	N/A
\diamond	Navigation Keys – used to navigate through the menus	N/A
\bigcirc	N/A	N/A
Σ	Sigma – used to update average piece weights / used to access saved recipe banks	Period "."
→	Dara Transfer – used to print data to a printer or transfer data to a PC via the RS232 communication port	Number "7" key
▼	Calibration Key – used to initialize automatic internal calibration	Number "8″ key
F1	Weighing	Number ``1″ key
F2	Pill Counting	Number ``2″ key
F3	NDC Verification (independent of pill counting)	Number "3″ key
F4	Compounding	Number ``4″ key
F5	N/A	Number ``5″ key
Display Indicator	Description	Explanation
OFF	Power Off	The scale is turned OFF and in standby mode.
AUT	AZSM (Automatic Zero Setting Mechanism)	AZSM (Automatic Zero Setting Mechanism) is active and the scale maintains a "center of zero" condition within +/- 5d
NET	Net Result	A tare was taken and the scale subtracted the tare weight from the gross weight to obtain the net weight.
→0←	Zero	The scale is maintaining a "center of zero" condition.
	Stability Indicator	The weighing result has stabilized and an accurate reading may be taken.
АРА	Advanced Pill Counting	The APA feature is enabled and the algorithm was activated
2% DEV, 3% DEV	Deviation Warning	Possible Deviation in the Average Piece weight may exist



PARTS DESCRIPTION



Front View





Rear View





Scanner Stand

Scanner

Pan Base

Pan





RJ Connector (Plugs int RS232 Connector (Plugs the scanner) into the scale)

Q

Scanner Cable



AC Adaptor





UNPACKING THE BALANCE AND GETTING STARTED

1. Carefully remove the scale, pan, scanner, and all of its components from the packaging and place them on a stable base where the scale will not be affected by any mechanical vibrations or air movements.



2. After removing the pan base and the pan from their packaging, carefully install the pan base onto the scale by placing it on the pan support located in the middle of the scale. Once the pan base has been installed, gently place the pan on the base as shown below.



3. Connect the scanner to the scale by plugging the RJ connector into the scanner and the RS232 connector into the scale. The RS232 port is located at the rear of the scale. Tighten the connector screw to secure the cable and prevent it from unintentional unplugging.





4. Once the pan and scanner have been installed, level the scale by adjusting the rear feet until the level indicator shows the "air bubble" is in the center position of the sight glass. The level indicator is located on the rear left side of the scale.



5. After leveling the scale, plug the AC adaptor into the AC adaptor socket located at the rear of the scale.



6. When the AC adaptor is plugged into the wall outlet, the scale will automatically turn on, go through its initialization process, and calibrate itself. Calibration will initialize automatically whenever the scale is turned on. The scale will also calibrate whenever the temperature changes by 1 degree Celsius and at two-hour intervals. Calibration will initialize only if the scale has been stable and idle for 60 seconds, in order not to interrupt weighing operations.

Note: When the AC adapter is plugged into the wall outlet for the first time, the scale will automatically and frequently initialize temperature calibration as the internal parts of the scale heat up. Once the internal temperature stabilizes, the scale will initialize the time – interval calibration approximately every two hours. The scale loses internal temperature only when the unit is completely unplugged from the wall electrical outlet. When the unit is turned off with the On/Off key, the scale goes into standby mode and internal temperature is maintained.



To put the scale into standby mode, leave the AC adaptor plugged into both the scale and the wall outlet and press the Power "OFF" button ($|/ \bigcirc$). The "OFF" indicator will light up in the upper left corner of the display signaling the scale is in standby mode, i.e.:



CHAPTER 6.

EXTERNAL KEYBOARD CONNECTION (OPTIONAL)

Any PC external keyboard can be connected to the scale via the PS2. An external keyboard allows you to input data quickly and easily. To connect a PC keyboard to the scale, follow the steps below.

- 1. Clear the pan and turn the scale off.
- 2. Locate the keyboard connection port at the rear of the scale, marked "keyboard."
- 3. Insert the keyboard connector into the scale's port.



4. Turn the scale on.

5. Once the scale is on, enter the Main Menu by pressing the MENU key.





6.Select the function that will be used with the keyboard.

34		cotub		
i c	1aintaining	the Drug) Database	2
] (Configurati	on		

7. Locate the External Keyboard option and switch the setting to Enabled.

PILL COUNTING SETUP	10
5. Default sample size	enabled
6. Remaining to fill	disabled
6. Advanced Pill count. accur.	disabled
9. Deviation Warning	disabled
5. Default sample size	10
6. Remaining to fill	enabled
7. External keyboard	Kenabled
8. Advanced Pill count. accur.	disabled
9. Deviation Warning	disabled

8.Exit the main menu.

9. Reboot the scale by turning it off and on.



Note: Some keyboard keys remain disabled and do not work with the scale (i.e. function keys, Shift, Control etc...). Do not use the number keypad located to the right of your keys. To key in numbers always use the number keys in the upper row of the keyboard.



MAIN MENU AND FUNCTION SETUP

Main Menu is used to configure the scale's functions. Configuration is done by enabling or disabling individual function features.

1. To enter the Main Menu function setup press the Menu key.



2. The scale will display a list of functions that can be configured.

 Fill counting setup Compounding setup Maintaining the Drug Database Configuration Calibration Exit 	

3.Use the arrow navigation keys to navigate up and down the menu.



4.Once a desired function is highlighted press **Enter** to enter the configuration setup screen for the selected function. The scale will display a list of features and functions that can be reconfigured.





7.1. Pill Counting – Setup

The pill counting setup will allow you to configure the pill counting function by enabling or disabling different components of the function.

1.Access the Main Menu with the MENU key and use the up and down arrow keys to select the function to be configured.





2. Once a desired function is highlighted, press Enter.



3. The scale will highlight the currently selected parameter (enabled or disabled). Use the right and left navigation arrow keys to toggle the parameters and to enable or disable the function.

PILL COUNTING SETUP		
1.Rx verification 2.Drug labeling 3.Drug Production lot entry 4.Data entry reminder 5.Default samPle size 6.Remaining to fill	disabled Kenabled disabled 30 10 disabled	

4. Once a selection has been made press Enter to accept and confirm the setting.





Follow Steps 1 through 3 to configure the functions. In order to exit the menu use the navigation keys to select **Exit** and press **Enter**.



7.1.1.Pill Counting – Function Description

- 1.Rx Verification When enabled, this feature becomes an integrated part of the pill counting function. You will be asked to verify NDC codes before each counting transaction. Usually an RX label bar code is compared to the stock bottle bar code. [Factory Default setting: **Disabled**]
- 2.Drug Labeling This function allows you to key in the actual name of the counted drug. The drug name is associated with the NDC code which is stored in the scale's database. Each time the drug is recalled from the database for counting, the name of the drug along with the NDC code will be displayed. Drug name can be keyed in from the scale's keypad or through any PC keyboard which can be connected to the scale via the PS2 connector. [Factory Default setting: **Disabled**]
- 3.Drug Production LOT Entry This feature allows you to key-in and assign each drug the actual production LOT number. Assigning a lot number allows you to track database drug entries and update sample weights and sizes as production lots change. Using this feature and updating drug weights improves counting accuracy and contributes to proper database maintenance. [Factory Default setting: **Disabled**]
- 4.Data Entry Reminder This feature ensures that the database is always updated with current drug LOT information, which is important for optimum counting accuracy. The data entry reminder feature reminds you to update drug data, such as the average piece weight and sample size. The feature tracks NDC entries and displays a message reminding you to update the database with new information if a pre-programmed amount of time has passed since the last entry. [Factory Default setting: **30 days**]
- 5.Default Sample Size The sample size is the number of pills that have to be counted manually in order to establish an individual piece weight when counting the drug for the first time and entering it into the database. [Factory Default setting: **10**]
- 6.Remaining to Fill When performing a counting transaction, the remaining to fill feature assists in achieving cut off at the proper pill count. When the feature is enabled, in addition to the displayed pill count, a remaining to fill countdown is displayed. The display indicates how many more pills must be placed in the vial to achieve the desired count, and indicates "0" at the target count. This feature helps to prevent overfilling. If too many pills are added, an overfill indicator displays the number of pills that should be removed from the vial. [Factory Default setting: **Disabled**]



- 7.External Keyboard This feature must be enabled if an external PC keyboard is connected to the scale via the PS2 port. [Factory Default setting: **Disabled**]
- 8.Advanced Pill Counting Accuracy (APA) APA is an advanced pill counting algorithm that can adjust for production LOT pill weight variations and provide even greater accuracy when counting large quantities. Turn to page 59 for more information on how to use the APA feature. [Factory Default setting: **Disabled**]
- 9.Deviation Warning When enabled the feature allows to check for possible discrepancy between the stored average piece weight, and the average piece weight of the drug which is counted. The feature signals if a deviation greater than +/- 2% is found. [Factory Default setting: **Disabled**]
- 10.Onscreen Instructions This feature displays instructions that lead you step-by-step through each the pill counting function. The instructions appear at the bottom of the LCD display. [Factory Default setting: **Enabled**]
- 11.Default Settings Selecting this option rests the function configuration and restores factory defaults.

7.2.Compounding – Setup

The compounding setup will allow you to configure the compounding function by enabling or disabling different components of the function.

1.Access the Main Menu with the MENU key and use Use the up and down arrow keys to select the function to be configured.



2. Once a desired function is highlighted, press Enter.





3. The scale will highlight the selected parameter (enabled or disabled). Use the right and left arrow keys to toggle the parameter and set the function to disabled or enabled.

COMPOUNDING SETUP	
1.Ingredient labeling 2.Remaining to fill 3.Filling meter 4.External keyboard 5.Onscreen instructions 6.Default settings	disabled Kenabled X disabled disabled enabled

4. Once a selection has been made, press Enter to accept and confirm the setting.



Follow Steps 1 through 3 to configure the functions. In order to exit the menu, use the navigation keys to select Exit and press Enter.



7.2.1. Compounding – Function Description

- 1.Ingredient Labeling This feature allows you to assign unique names or labels to individual ingredients within the compound. The name of the ingredient and its weight is stored in the scale's memory. [Factory Default setting: **Disabled**]
- 2.Remaining to Fill When enabled, you will be asked to key in the desired weight of an ingredient before filling. This allows the scale to track the filled weight and display the remaining amount. If too much weight is placed, an excess indicator will be displayed, along with the amount of weight that should be removed. [Factory Default setting: **Disabled**]



- 3.Filling Meter This feature should be used with the "reaming to fill feature". The meter is a none-linear indicator that assists you in the filling process. The meter indicates a cut-off point at which the indicator becomes very sensitive, therefore it allows you to stop filling at the desired weight with greater accuracy. Turn to page XX for more information on how to use the filling meter. [Factory Default setting: **Disabled**]
- 4.External Keyboard This feature must be enabled if an external PC keyboard is connected to the scale via the PS2 port. [Factory Default setting: **Disabled**]
- 5.Onscreen Instructions This feature displays instructions that lead you step-by-step through the pill counting function. The instructions appear at the bottom of the LCD display. [Factory Default setting: **Enabled**]
- 6.Default Settings Selecting this option rests the function configuration and restores factory defaults.

CHAPTER 8.

MAINTAINING THE DATABASE

This feature allows the user to erase a single memory location or the entire memory bank of stored NDC codes, average piece weights and any other stored data associated with a drug. The function allows you to delete old or unused entries, erase a single entry, or format and delete the entire memory bank. To erase entries follow the steps below.

8.1.Delete by Date

1. Enter the main menu by pressing the MENU key.



2. Use the arrow navigations keys to select the function labeled "Maintaining the Drug Database".







3. Once "Maintaining the Drug Database" is highlighted press the ENTER key.



4. Using the navigation keys select "Delete by Date" and press ENTER.



5. The scale will display the following command: "Delete All Records which have not been updated or are older then X Month (s)," – Proceeding with this selection will erase all entries of "NDC Codes" which have not been updated or have been entered into the database more than the selected time period.

DELETE BY DATE	
Delete all records which have not been uPdated or are older than : K one month >	

- 6. Using the right arrow navigation key you may increase the time to: two, three, six, or twelve months.
- 7. Once your selection has been made press the ENTER key.





8. The scale will display the following command "Delete All Records which are Older then X Months? NO/YES". To proceed with erasing unused entries select "YES" with the navigation keys. To abort select "NO".



9. Once the selection has been made press the ENTER key to continue.



10. The scale will now display a warning indicating that all unused entries will be deleted, confirm the deletion once again by selecting "YES". To abort select "NO".

DELETE BY DATE		
WARN ALL RECORDS OLDER WILL BE DELETED. DO	ING ! THAN ONE YOU WANT	MONTH TO PROCEED?
	NO YES	

11. After selecting "YES" the scale will proceed with erasing unused data. Once finished it will display the number of erased entries and automatically return to the main menu.

8.2.Delete One

1. Enter the main menu by pressing the MENU key.





2. Use the arrow navigations keys to select the function labeled "Maintaining the Drug Database".





3. Once "Maintaining the Drug Database" is highlighted press the ENTER key.



4. Using the navigation keys select "Delete One" and press ENTER.

MAINTAINING THE DRUG DATABASE	
1.Delete by Date	ENT
Z.Delete Une 3.Delete All	\leftarrow

5. Command "SCAN" will be displayed indicating to scan the NDC Code which you wish to delete. At any time scan the NDC Code.

DELETE ONE	
SCAN	
NDC#	



6. After scanning the code the scale will search the database and gather the necessary data. Command "Delete NDC # XXXXXXXX? NO/YES" To proceed with erasure of this "NDC Code", using the navigation keys select "YES" and press ENTER to proceed.



7. The scale will display a warning indicating that "NDC # XXXXXXXX" will be permanently deleted. To proceed with erasure of this NDC number, confirm the deletion once again by selecting "YES". To abort select "NO".

DELETE ONE	
WARNING ! NDC#6412512001 WILL BE DELETED ! DO YOU WANT TO PROCEED ?	Col. of Col. o
VES	BARRIEL CONTRACTOR

8. The scale will delete the selected NDC Code and return to the main menu.



8.3.Delete All

1. Enter the main menu by pressing the MENU key.





2. Use the arrow navigations keys to select the function labeled "Maintaining the Drug Database".





3. Once "Maintaining the Drug Database" is highlighted press the ENTER key.



4. Using the navigation keys select "Delete All" and press ENTER.



5. The scale will display a warning indicating that all data will be erased. To confirm the erasure of the entire database using the navigation keys select "YES" and press ENTER. To abort select "NO".

	\overleftarrow{T}
Warning ! All data will be erased ! Do you want to Proceed ?	ENTER
NO Mes	C



6. The scale will now display second warning indicating that all data will be permanently lost. To abort using the navigation key select "NO", to proceed select "YES" and press ENTER.

WARNING: Proceeding will result in formatting and erasing the entire memory bank. All data will be permanently lost.



7. After proceeding with memory erasure the scale will begin to delete and format the entire database. This process lasts up to 45 seconds as the memory is formatted.

DELETE ALL	DELETE ALL
Erasing record(s)	1400 record(s) erased !



CONFIGURATION

This function allows you to configure scale's LCD Contrast, RS232 Communication Port, Time and Date, and Performance configuration.

9.1. Power Save and LCD Contrast

1. Enter the main menu by pressing the MENU key.



2. Use the navigation keys to select "Configuration" and press ENTER.

MAIN MENU	$\overbrace{ \overleftarrow{\mathbf{T}}}$
<pre>Pill counting setup Compounding setup Maintaining the Drug Database Configuration Calibration Frit</pre>	ENTER

3. From the configuration menu select "Power Save" and press ENTER.

CONFIGURATION	
□ Fower save □ RS-232C □ Time & Date □ Reset Exit	





4. To change the contrast of your LCD display, select "Contrast" and press the ENTER key.



5. Using the left and right arrow navigation keys to adjust the contrast of your display.



6. Once the contrast is at a desired level press the ENTER key to save the setting.



7. To completely turn off the back light of the LCD display, select "Back Light" and press ENTER.





8. Using the left and right arrow navigation keys select "OFF". Once the back light is turned off press the ENTER key to save the setting.



9.2.RS232 Communication Port Adjustment

1. Enter the main menu by pressing the MENU key.



2. Use the navigation keys to select "Configuration" and press ENTER.

MAIN MENU	$\left {\overleftarrow{\mathbf{v}}} \right\rangle$
□ Pill counting setup □ Compounding setup □ Maintaining the Drug Database	
□ Calibration Exit	- Cr

3. From the configuration menu select "RS232" and press ENTER.





4. To configure the "RS232 Port" use the navigation keys to select a desired parameter, press the ENTER key, and then once again use the navigation keys to make a desired selection.



5. Once the selection is made press the ENTER key to save the setting.



To connect the DRX Scale to a TORBAL RXP-4 printer use the following settings.

Baud Rate: 9600 Bits: 8 Bit Parity: None Protocol: Long Sending Mode: Button + stab.

9.3. Time and Date Adjustment

Note: It is very important to adjust and keep a correct current time and date setting. The scale uses its clock and calendar setting for functions such as "Average Piece Reminder", and "Delete by Date Database Maintenance".

1. Enter the main menu by pressing the MENU key.



the Drug Database

2. Use the navigation keys to select "Configuration" and press ENTER.

MAIN MENU

Maint

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ompounding

brat

CONFIGURATION

TIME & DATE

-

Time

Date Exit

ainin9 <u>9uration</u>

100

From the configuration menu select "Time and Date" and press ENTER. 3.

counting setup

setup

ower-save 32Ö & Date

9:27:23 AM 11-12-2007

4. To adjust the time, using the navigation keys select "Time" and press ENTER.

5. Using the yellow keys begin to enter the current time. The time is entered in segments: hours, minutes, and seconds. After entering a segment press the ENTER key to move to the next segment.











ENTER



6. To change between "AM" and "PM" use the down arrow key and press the ENTER key (after pressing the arrow key "AM" will not change to "PM" until the ENTER key is pressed).



7. To change the date, select "Date" with the navigation keys and press ENTER.



8. Using the yellow number keys begin to enter the current date. The date is entered in segments: day, month, and year 00/00/0000. After entering a segment press the ENTER key to move to the next segment.

TIME & DATE		
1.Time : 2.Date : 3.Exit	9:27:26 AM 11-12-2007	

9.4.Reset

The reset option is used to restore default configuration settings.

1. Enter the main menu by pressing the MENU key.



the Drug Database

2. Use the navigation keys to select "Configuration" and press ENTER.

Compounding setup

ntaining

counting setup

MHIN

 $\times 1$

RESET

NER.

- 3. From the configuration menu select "Reset" and press ENTER.
 - (m))));;;;)((c)));;;);)((c))); ower save Π
- 4. Command "Restore Default Settings? NO/YES" will be displayed.

5. To restore default configuration settings use the arrow keys to select "YES" and press ENTER.

Restore default settings ?

- **ENTER** CLR
- The scale will restore default configuration settings and return to the main menu. 6.













CALIBRATION

The DRX 5 Series scales are equipped with Automatic Internal Calibration. Calibration is automatically performed every time the scale is turned ON or initialized. Calibration is also performed every time the internal temperature of the scale changes by 1° C or at 2 hour time intervals (whichever comes first).

When first plugged into the electrical wall outlet, temperature calibration will be performed regularly as the internal temperature of the scale increases to its operating level. Once the temperature stabilizes temperature calibration will be performed less frequently. To maintain the internal calibration of the scale leave the unit plugged into the wall outlet and turn the scale OFF by using the ON/OFF key.



The calibration algorithm is designed not to interrupt the scale while it is in use. Therefore if calibration is required the scale will wait until the unit has been inactive for 60 seconds (pan free of any weight, keys have not been pressed, scale is stable).

The scale can be also calibrated at any time with the calibration key. Ta calibrate the scale follow the steps below:

- 1. Make sure the pan is free of any weight and the scale is stable.
- 2. Press the calibration key ∇ .



3. The scale will display a command asking to confirm internal calibration.





4. In order to confirm internal calibration and proceed with calibration press the calibration key ∇ again.



10.1.1.Calibration Report

ORBA

After calibration has been performed, a calibration report can be printed. The calibration report includes data of the current internal calibration weight. To print the calibration report, follow these steps:

1. Press the MENU key to enter the main menu.



2. Use the navigation keys to select Calibration and press ENTER

MAIN MENU	
 Pill counting setup Compounding setup Maintaining the Drug Database Configuration Calibration 	ENTER

3. Use the navigation keys to select Report Printout and press ENTER

CALIBRATION	
i.RePort Printout 2.Exit	ENTER
	(

4. The calibration report will be printed to a printer or transferred to a PC via the RS232 port.



WEIGHING (F1)

1. To begin weighing, press the power button ($|/ \bigcirc$) to turn the scale on.



2. The scale will initialize and calibrate itself, and then automatically enter Weighing Mode. The scale is ready to begin weighing as soon as the stabilization () and center of zero () indicators appear on the display, i.e.:

If the scale initialized in a different mode, use the F1 key to enter weighing.



3. When weighing, always place the mass in the middle of the pan. The weighed result may be taken when the stabilization indicator appears on the display.





11.1.1.Zeroing the scale

- 1. The DRX is armed with the Auto Zero Setting Mechanism (AZSM). AZSM automatically maintains a center of zero condition within +/- .5d or 5mg.
- 2. The scale may be re-zeroed manually to obtain a new center of zero. To re-zero the scale manually with a weight that is out of the AZSM range, make sure the weight and the stabilization indicator are shown on the display, i.e.:
- 3.Re-zero the scale by pressing the zeroing key.



4. The display will show a dotted line, which indicates that the scale has begun the re-zeroing process, i.e.:

	ZEROING	
		 -

5. When finished re-zeroing, the scale will return to Weighing Mode and the display will indicate 0. A new center of zero has been set, and the scale is ready for weighing.



Note: Re-zeroing the scale will reduce the capacity of the scale by the re-zeroed weight. The remaining capacity is displayed as a percentage on the right side of the display.

11.1.2.Taring

1.If a container is used for weighing, it may be tared. In taring the container, the scale subtracts the weight of the container from the gross weight to obtain the net weight.



2. To tare the weighing container, place it in the middle of the pan. The container's weight will be shown on the display.



3.Once the stabilization indicator appears on the display, the container is ready to be tared. To tare the container, press the T button.



4. The display will show a dotted line which indicates the scale has begun the taring process.



5. When finished taring, the balance will return to Weighing Mode. The display will indicate 0, and the NET indicator will be shown on the display signaling the next weight taken is a NET result.



Note: Do not touch or move the scale during the taring process.



11.1.3.Clearing a Tare

1.To clear the tare, remove the tared object along with the NET weight from the pan. The scale will then display a negative NET tare result.



2. To clear the tare, press the T button.



3. The display will show dashed lines, indicating the tare is clearing.



4. When finished clearing the tare, the scale will return to Weighing Mode.





PILL COUNTING (F2) – COUNTING PRESCRIPTION DRUGS FOR THE FIRST TIME

** Steps referring to optional features that are disabled by default are italicized.

If this is the first time a particular drug is counted, and it has not been stored in the scale's database, follow the steps below. If the drug has previously been counted, please turn to Chapter 13 of this manual.

1. To enter the pill counting mode press F2. TARE will appear on the scale's display, indicating to tare a counting container.



2. Place a vial or a counting container on the pan. The container weight will be displayed.




3. Wait for the weight to stabilize and press the T key to tare.

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4. Once the scale has finished taring, "SCAN" will appear on the display, indicating that the scale is ready to scan the NDC code associated with the drug.



5. Note: If NDC verification has been enabled, two NDC codes must be scanned to allow the scale to check for a match between the two codes. For more information on NDC verification, please turn to Chapter 15 of this manual.



6. Scan the NDC code by slowly placing it under the scanner light.





7. If Drug Labeling has been enabled, "DRUG NAME" will be displayed indicating that you should key in the name of the drug. To key in the drug name you may use the scale's alphabet (Chapter 24) or use an external keyboard (Chapter 6). The name can be 10 characters long (alphanumeric).



8. If production LOT entry has been enabled, key in the production LOT number located on the drug's supply bottle. The LOT number can be 10 characters long (alphanumeric).



9. After scanning the NDC code and entering optional drug information, the scale will ask to select and confirm the sample size; SAMPLE SIZE 10" will be displayed. To change the sample size use the left and right navigation keys, to accept the sample size press Enter.



10. Once the sample size has been selected, the scale will display "SAMPLE WEIGHT," indicating to weight the sample. Manually count 10 pills and place them in the container located on the pan.



11. The weight of the sample will be displayed as it is placed on the pan.

Max 3009 Min	0.029 e=0.019 d=0.0019 💿
0	NET AUT
880 L	2260
10Pcs	JZUUa
ENTER 0%	199%

12. Once the weight of the sample stabilizes and the stability indicator appears on the display, press the ENTER key to confirm and accept the sample weight.



Note: Minimum individual piece weight allowed is 30mg (3e). With a sample size of 10 pieces, the sample weight must be equal to or greater than 300mg (30e). Attempting to set a sample size of 10 pieces with a total sample weight which is lower than 300mg (30e) will result in an error.

13. If the Remaining to Fill feature has been enabled, the scale will ask for the number of pills to be counted in the transaction. Using the scale's keypad or an external keyboard, key in the number of pills to be counted and press Enter.





14. The scale will store the sample weight in the internal memory and the display will indicate to begin filling. The word "FILL" will flash on the display for approximately five seconds. At any time during the Fill command, add the remaining pieces.



15. Note: If filling does not begin while the Fill command is displayed, after approximately five seconds the scale will display "10 pcs" and will wait for the count to begin.

Max 30	009 Min	0.029	e=0.	.019	d=0.	0019	l l
NUC#0: PV DPI	14312770 JG	d1 🖌	-	NET	AUT	R	emain
NO DO					A	0	90
						U,	ane
						v 1	003
0%							100%

16. The display will now indicate the number of pieces in the container. Stop filling when the desired count has been reached.





17. Note: If the Remaining to Fill feature has been enabled, a count down meter will be displayed in the upper right corner of the display. If too many pills are placed into the container the OVERFILL indicator will be displayed.



18. Once an accurate piece count has been taken, the container and its contents may be removed from the scale. After the container with the counted pieces has been removed, the scale will signal that the count is finished by displaying "---- COUNT FINISHED." To begin a new count press the Clear key (CLR).



Important: If too many pieces have been placed into the container, use tweezers, a pharmacy spoon, or a similar instrument to remove the excess while the container is still on the scale's pan. If needed, place the container back on the pan to recheck the count. This may be performed while command "COUNT FINISHED" is displayed, but before pressing the C key. Once the C key has been pressed, the counting operation will reset and a new counting transaction may begin.

Note: The steps listed in this chapter must be performed only if the drug is counted for the first time and its sample weight has not been not stored in the scale's internal memory.



PILL COUNTING (F2) – COUNTING PRESCRIPTION DRUGS WHICH HAVE BEEN PREVIOUSLY STORED IN THE SCALE'S DATABASE

** Steps referring to optional features that are disabled by default are italicized.

If a particular drug has been previously counted in the scale, and it has not been stored in the scale's database, follow the steps below. If the drug has not been previously counted please turn to Chapter 12 of this manual.

1. To enter the pill counting mode, press F2.



2. "TARE" will appear on the scale's display, indicating that it is ready to tare a counting container.



3. Place a vial or a counting container on the pan. The container weight will be displayed.





4. Wait for the weight to stabilize and press the T key to tare.



5. Once the scale has finished taring, "SCAN" will appear on the display, indicating that it is ready to scan the NDC code associated with the drug.

Max 3009 Min 0.0	29 e=0.01 9 d=0.0019 (Ξ
C	CAN	
O	CAN	
Bottle NDC#		
Scan <u>the NDC bar</u>	<u>code on the supp. bot</u>	tle
04.		00%

6. Note: If NDC verification has been enabled, two NDC codes must be scanned to allow the scale to check for a match between the two codes. For more information on NDC verification please turn to Chapter 15 of this manual.



7. Scan the NDC code by slowly placing it under the scanner light.





8. If the Remaining to Fill feature has been enabled, the scale will ask for the number of pills to be counted in the transaction. Using the scale's keypad or an external keyboard, key in the number of pills to be counted and press Enter.



9. The display will then indicate to begin filling. The word "FILL" will flash on the display for approximately 5 seconds. At any time during the Fill command, add the remaining pieces.



10. Note: If filling does not begin while the command "Fill" is displayed, after approximately five seconds the scale will display "0 pcs" and will wait for the count to begin.

	<u>Max 3009 Min 0</u> .	.029 e=0.	.019	d=0.0019	9
0 ncs	NDC#0143127701 RX DRUG	in all	NET	AUT	
Unes				0	
V 003				U U I	DCS
Ω ² [1] 100'	02 m				100%



11. The display will now indicate the number of pieces placed in the container. Stop filling if the desired count has been reached.



- 12. Note: If the Remaining to Fill feature has been enabled, a counting down meter will be displayed in the upper right corner of the display. If too many pills are placed into the container the Overfill indicator will be displayed.
- 13. Once an accurate piece count has been taken, the container and its contents may be removed from the scale. After removal of the container with the counted pieces, the scale will indicate the count is finished by displaying "---- COUNT FINISHED." To begin a new count, press the Clear key (CLR).



Important: If too many pieces have been placed into the container, use tweezers, a pharmacy spoon, or a similar instrument to remove the excess while the container is still on the scale's pan. If necessary, place the container back on the pan to recheck the count. This may be performed while command" COUNT FINISHED" is displayed, but before pressing the C key. Once the C key has been pressed, the counting operation will reset and a new counting transaction may begin.



PRINTING A PILL COUNTING RECEIPT

Once a counting transaction has been completed a receipt of the count can be printed if an external printer is connected to the scale. To print a counting receipt, follow the steps below:

1. Once the desired count is displayed and the stability indicator appears, press Print (). A print icon will be displayed, indicating that printing is in process.

The printer will print the date and time of the performed transaction, as well as the NDC code, drug name, production LOT number, average piece weight, and the actual count

10-20-2007 1:33 PM NAT. DRUG CODE 6412512001 DRUG NAME DRUG RX DRUG LOT A123BC AVG. PILL WT. 0.500 9 PILL COUNT 10 PCS



CHAPTER IJ.

NDC VERIFICATION – INTEGRATED INTO PILL COUNTING

NDC Verification can be used within the pill counting feature or as an independent function.

Note: When using the scale without the Rx PC software, the verification feature may be performed only if a 10 or 11 digit NDC barcode is printed on the Rx label in a format that is compatible with the scanner. Please contact Customer Service to learn if the scale can be customized to verify against other codes that may be printed by the Rx software, such as the transaction (Tx#) or the prescription number (Rx#).

Once NDC Verification has been enabled in the pill counting setup menu, anytime you are performing the counting operation, two NDC codes must be scanned to allow the scale to check for a match between the two codes.

1. Once the first step of the counting operation has been completed and the scale has tared the counting container or a vial, "SCAN 1" will appear on the display indicating you should scan the first NDC code associated with the drug (usually the supply bottle).



2. Scan the NDC code by placing it slowly under the scanner light. The code will appear on the display in a field labeled "Bottle NDC # ."



3. The scale will then ask you to scan the second code. "SCAN 2" will appear on the display.





4. Scan the second code by placing it under the scanner light. Once the code has been scanned, the scale will check whether there is a match between the two codes. The code will appear on the display in a field labeled "Rx NDC #____." If the match is wrong the word "FAILED" will appear on the display. The second NDC code will be highlighted on the display and the procedure must start over. To start over press Enter.



5. If verification is successful, "MATCH OK" will be displayed, the scale will search its database to check if the drug has been previously stored in its memory and you will be allowed to continue with the counting operation.



For more on pill counting, please turn to Chapters 12 and 13 of this manual.



NDC VERIFICATION (F3) – INDEPENDENT OF PILL COUNTING

To enter the NDC verification feature, press the F3 key at any time.



1. "SCAN 1" will appear on the display, indicating that you should scan the first NDC code associated with the drug (usually the supply bottle).



2. Scan the NDC code by placing it slowly under the scanner light. The code will appear on the display in a field labeled "Bottle NDC # _ _ _ ."



3. The scale will then ask you to scan the second code. "SCAN 2" will appear on the display.





4. Scan the second code by placing it under the scanner light. Once the code has been scanned, the scale will check for a match between the two codes. The code will appear on the display in a field labeled "Rx NDC # _ _ _ ." If the match is wrong, the word "FAILED" will appear on the display. The second NDC code will be highlighted on the display and the procedure must start over. To start over, press Enter.



5. If verification is successful, "MATCH OK" will be displayed. The feature will reset itself automatically and the procedure can start over.





MAINTAINING AND MODIFYING THE AVERAGE PIECE WEIGHT

In order to assure the highest long-term counting accuracy, it is strongly recommended that the database be periodically updated, as drugs may be reformulated, modified and released under new production lot numbers.

*Note: Handbook 44 Sect 2.20 UR.3.12 Correct Stored Piece Weight states "For prescription scales with a counting feature, the user is responsible for maintaining the correct stored piece weight. This is especially critical when a medicine has been reformulated or comes from different lots." Manufacturers do not supply piece weight information for pills. For these reasons, a factory-stored database is not furnished with the unit, and it is strongly recommended that the pharmacist build and update the database as new supply bottles are used.

To modify a previously stored sample piece weight or sample size, follow the directions below:

1. To enter the pill counting mode, press F2.



2. "TARE" will appear on the scale's display.



3. Place a vial or a counting container on the pan. The container weight will be displayed.



4. Wait for the weight to stabilize and press the T key to tare.

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5. Once the scale has finished taring, "SCAN" will appear on the display, indicating that it is ready to scan the NDC code associated with the drug.



6. Note: If NDC verification has been enabled, two NDC codes must be scanned to allow the scale to check for a match between the two codes. For more information on NDC verification please turn to Chapter 15 of this manual.



- 7. Scan the NDC code by slowly placing it under the scanner light.
- 8. If the Remaining to Fill feature has been enabled, the scale will ask for the number of pills to be counted in the transaction. Using the scale's keypad or an external keyboard, key in the number of pills you wish to count and press Enter.



9. The display will then indicate to begin filling. The word "FILL" will flash on the display for approximately five seconds. At any time during the Fill command, press the sigma key () to modify the data associated with the drug.

When the sigma key () is pressed, the scale will allow the drug data to be changed.



10. If Drug Labeling has been enabled, "DRUG NAME" will be displayed, indicating that it is ready to key in the name of the drug. To key in the drug name you may use the scale's alphabet (Chapter 24) or an external keyboard (Chapter 6). The name can be 10 characters long (alphanumeric).



11. If production LOT entry has been enabled, key in the production LOT number located on the drug's supply bottle. The LOT number can be 10 characters long (alphanumeric).



12. After entering optional drug information, the scale will ask you to select and confirm the sample size. "SAMPLE SIZE 10" will be displayed. To change the sample size, use the left and right navigation keys. To accept the sample size, press Enter.



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13. Once the sample size has been selected, the scale will display "SAMPLE WEIGHT" indicating that it is ready to weight the sample. Manually count the sample and place it in the container located on the pan.



14. The weight of the sample will be displayed as it is placed on the pan.

Max 3	009 Min	0.029 e=0	.019	d=0.	0019	Θ
0.1		in	NET	AUT		
8801			22	2(Δ	
10Pcs			3 Z	.0	Uc	
ENTER	·					100%
64						100%

15. Once the weight of the sample stabilizes and the stability indicator appears on the display, press the T key to confirm and accept the sample weight.



16. The scale will now store new drug data the new sample weight, and the sample size in the internal memory. The display will tell you when to begin filling. The counting transaction may be continued, based on the new sample size and sample weight.



Note: For more on the counting feature, please turn to Chapters XX and XX of this manual.



DATA ENTRY REMINDER

When enabled, the feature reminds you to update drug data if a pre-programmed amount of time has passed since the last entry. Using this feature assures the highest long-term counting accuracy. It is strongly recommended to update the database periodically as drugs may be reformulated, modified and released under new production lot numbers.

1. When the supply bottle NDC number is scanned, the scale checks the length of time that has passed since the drug had been last entered or modified in the database. If the length of time is longer than what has been preprogrammed in the data entry reminder feature (default: 30 days), the scale will display a reminder notice before proceeding with the counting operation.



2. When the update reminder is displayed, use the navigation keys to toggle between the available options and press Enter.



Select YES to update the drug information, or NO to postpone or cancel updating the drug data. Update Average Piece Weight? - YES

- 1. After selecting YES, the scale will allow the drug data to be changed and adjusted.
- 2. "SAMPLE SIZE 10" will be displayed. To change the sample size, use the left and right navigation keys; to accept the sample size press **Enter**.







3. Once the sample size has been selected, the scale will display "SAMPLE WEIGHT" indicating to weight the sample. Manually count 10 pills and place them in the container located on the pan.



4. The weight of the sample will be displayed as it is placed on the pan.

Max	3009	Min	0.029	e=0.	.019	d=0.	.001	g i	Θ
.0.	1		1	in	NET	AUT			
	T			1	$2 \circ$	2(~		
10Pc	s			4	22	0	U	a	
ENTE	R							Э.	
10%								1	00%

5. Once the weight of the sample stabilizes and the stability indicator appears on the display, press the T key to confirm and accept the sample weight.



6. The scale will now store the new sample weight and sample size in the internal memory. The display will indicate you should begin filling. The counting transaction may be continued, based on the new sample size and sample weight.

Max 3009 Min 0	.029 e=0.019	d=0.0019	\odot
	FILL		
NDC#0143127701	RX DRUG	LOT#A34G3	
0º2 (mm			1002
0%			100%



Update Average Piece Weight? - NO

1. After selecting NO, the scale will allow you to postpone the reminder for an additional period of time or to turn it off.



2. To postpone the reminder use the navigation keys to select a new number of days and press Enter.



3. To cancel the reminder notice for the drug, select Off.



DEVIATION WARNING

Deviation Warning:

When enabled the feature allows to check for possible discrepancy between the stored average piece weight, and the average piece weight of the drug which is counted. The feature signals if a deviation greater than +/-2% is found.

1. Once command "FILL" is displayed slowly begin to count the pills. In order to check for a possible deviation you must stop the count between 10 and 15 pieces.

Max 3009 Min 0.029 e=0.019 d=0.0019	Θ
FILL	
NDC#0143127701 RX DRUG LOT#A34G3	
0% 💻	100%

Note: When stopping outside of the 10 to 15 range the feature will not work.

2. When you reach a count of 10 to 15 pieces stop and wait for the scale to stabilize.

<u>Max 3009 Min 0.029</u>	3 e=0	.019	d=0	.001	9 🗩
NUC#0143127701 RX DRUG	https://www.autif	NET	AUT		
			1	2	
2%DEV				2	pcs
0% 🚥					100%

- 3. Once the scale is stable it will calculate a new average piece weight. The new average piece weight is then compared to the average piece weight which is stored in the scales memory.
- 4. If a deviation exists which is greater than +/- 2%, but less than +/- 3%, the scale will sound a single beep and "2% DEV" will appear in the lower left corner of the display. If the deviation is equal to or greater than +/- 3% the scale will sound three beeps and "3% DEV" will appear in the lower left corner of the display.

NDC#0143127701	NDC#0143127701
RX DRUG	LOT#A34G3
2%DEV	3%DEV



5. If the stability indicator appears and the scale does not sound a beep nor the "2% DEV" or "3% DEV" command appears on the display, a deviation of greater than 2% was not found.

Note: If a deviation exists between the stored average piece weight and the average piece weight of the counted pills, update the average piece weight before continuing counting in order to avoid possible counting errors. For details on maintaining and modifying the average piece weight turn to chapter 16 of this instruction manual.

CHAPTER 20.

ADVANCED PILL COUNTING ACCURACY (APA)

When enabled APA can adjust average piece weight variations that may exist between a currently counted drug, and the average piece weight of that drug that is stored in the scale's database. To use the APA feature follow the steps below.

1. Once command "FILL" is displayed slowly begin to count the pills. In order to activate APA stop the count between 10 and 15 pieces.



Note: When stopping outside of the 10 to 15 range the feature will not work.

2. When you reach a count of 10 to 15 pieces stop and wait for the scale to stabilize.

<u>Max 3009 Min 0.02</u>	29 e=0	.019	d=0	.001	9	\odot
NDC#0143127701	in	NET	AUT			
			A	2		
APA				1	n	CS.
			•		۲	00
0% 🚥					ו	100%



3. Once the scale is stable it will calculate a new average piece weight. The scale will sound a beep and the APA indicator will appear in the lower left corner of the display. At this point the scale has calculated a new average piece weight based on the pieces which are counted.



4. For an even greater accuracy APA can be activated once again when stopping the count between 20 and 30 pieces. Activating APA in this range can be particularly useful when counting large quantities.

Max 3009 Min 0.02	29 e=0	.019	d=0.001	9 🕒
NDC#0143127701	linetil	NET	AUT	
Lorintorido			25	
APA			20	DCS
<u></u>				100%
6%				100%

Note: If APA was not performed or activated at the 10 to 15 range it will not activate in the 20 to 30 range.

Note: The new average piece weight calculated in the counting transaction by the APA feature is not stored in the scales database. The stored average piece weight remains the same and can be changed manually only. For details on "Maintaining and Modifying the Average Piece Weight" turn to chapter 16 of this instruction manual.



COMPOUNDING AND RECIPE MAKING (F4)

** Steps referring to optional features that are disabled by default are italicized.

1. To enter the compounding mode, press F4.



2. "TARE" will appear on the scale's display, indicating that it is ready to tare a counting container.



3. Place a container on the pan and tare it by pressing the T key.

Max 3009 Min 0.029 e=0.019 d=0.0019 👓 🕇	€€€
Ingredient 01 NET AUT	
/.434g	

- 4. The scale is now ready for the first ingredient.
- 5. If Ingredient Labeling has been enabled, the scale will signal you to name the ingredient. To key in the ingredient name you may use the scale's alphabet (Chapter 24) or an external keyboard (Chapter 6).



Max 3009	9 Min (0.029	e=0.019	d=0.0019	9
Ingredie	ent Ø1	: INGF	REDIENT	18	
Enter	the i EN	ngred: TER to	ient nam o contin	e and Pre ue	?55



6. If the Remaining to Fill feature is enabled, the scale will indicate that it is ready to key in the weight of the ingredient to be weighed. Using the scale's keypad, key in the weight of the ingredient and press Enter.



7. Once the information has been entered, the scale will indicate that you can begin adding the ingredient. Add the ingredient until the desired weight is displayed and the stability indicator appears on the display.

<u>Max 3009 Min 0.029 (</u>	e=0.019d=0.0019 💿
01:INGREDIENI Ra:0.0000	NET AUT
Ne+010005	2000
	/UUUa
	2.0009

8. Once a desired weight is displayed press Enter to store the ingredient in the scale's memory.



9. Once the ingredient has been entered into the scale's memory, the scale is ready for the next ingredient. Repeat Steps 1 through 7 for each ingredient.



The ingredients are retained in the scale's memory until the recipe has either been completed or cleared (CLR). An ingredient can be removed from the pan before the next ingredient is added.



To view the recipe total, or to print and save recipes press the Sigma (Σ) key before taring and entering an ingredient.



CHAPTER 22.

SAVING AND PRINTING RECIPES

To view the recipe total, or to print and save recipes press the Sigma (Σ) key before taring and entering an ingredient.



Once the sigma key has been pressed, the scale will display the current recipe. The recipe can be saved in the scales permanent and electronically erasable memory.

Select a desired command while the recipe is displayed:

F1 Cont.: Press F1 to exit and continue adding ingredient to the recipe.



F2 Print.: Press F2 to print the recipe at its current stage.



F3 View.: Press F3 to view saved recipes.



F5 Done.: Press F5 to finish and save the recipe.



To save the recipe before exiting, press F3, as indicated on the display.



To exit without saving, press F5.



If F3 is pressed, the scale will display slots in which a recipe can be saved. By using the navigation keys select the slot into which you wish to save the recipe and press Enter. The scale will allow you to assign a name to the recipe; if a name is not necessary, leave the field blank and press Enter. To overwrite a previously saved recipe, simply select it with the navigation keys before saving a new one.

No. Recipe nam	e Recip	e date
BB1 Kempty slo 002 Kempty slo 003 Kempty slo 004 Kempty slo 005 Kempty slo	t≥ t> t> t> t>	

To exit the Recipe view without saving it, select F5.





USING THE FILLING METER

If the Remaining to Fill feature is enabled, the remaining to fill weight will be displayed in the upper left corner of the display.

The filling meter will assist you in the filling process. The filling meter helps to stop filling at the desired target weight which was entered as the remaining to fill weight.

- 1. Locate the arrow at the right end of the filling meter. The arrow represents the desired filling weight that had been programmed as the remaining to fill weight.
- 2. When an ingredient is added, the filling meter begins to move towards the arrow. The meter reaches the arrow when the desired weight has been placed on the pan.



3. The filling meter is non- linear. As the weight is placed on the pan, the meter begins to move slowly and becomes more sensitive as it approaches the desired weight. The resolution of the meter becomes greater as more weight is placed on the pan. This allows a more precise and accurate weight. Slow down the addition of weight into the pan when the meter is approximately three quarters full, since at that point you have added approximately 90% of the desired weight.





USING THE SCALE'S ALPHABET FOR DATA ENTRY

If an external PC Keyboard is not connected to the scale and you are using "Drug and LOT" labeling use the scale's keypad to enter letters of the alphabet and other characters. Each number key has an assigned set of characters and letters. Press they key until the desired letter or a character is displayed. Once selected, the scale will move to the next character automatically. For list of character and assigned numbers see the chart below.

KEY	CHARACTERS
F1/1	1., '?!" -()/_:;+*=<>[] { }
F2/2	2 A B C a b c
F3/3	3 D E F d e f
F4/4	4 G H I g h i
F5/5	5 J K L j k l
→0←/6	6 M N O m n o
E→ /7	7 P Q R S p q r s
/8	8 T U V t u v
MENU/9	9 W X Y Z w x y z
	0 double press for space



SEALING THE SCALE

Depending on the laws of the state in which it is used, the scale may have to be sealed by an Weights and Measures official. The scale can be sealed either with paper or with wire.

To seal the scale, follow the instructions below.

25.1.Paper Seal

1. To seal the scale with a paper seal or a sticker, gently use a flathead screwdriver to remove the calibration wire seal screw located in the rear of the scale.



2.Once the wire seal screw has been removed and the calibration switch exposed, gently insert the flush sealing screw provided with the scale in the place of the wire seal screw.





3. Once the flush sealing screw is in place, the paper seal can be simply placed over the opening as shown in the picture below.



WARNING: Do not attempt to screw the flush sealing screw all the way in. Stop when the screw is flush with the casing of the scale.

25.2.Wire Seal

1. To seal the scale with a wire seal, insert the wire into the opening of the calibration screws located at the rear of the scale.





2. The seal may then be placed over the wire. Do not attempt to remove the calibration screw as it will rip the wire and break the seal.





CHAPTER 26.

TECHNICAL INFORMATION





CHAPTER 27.

COMMON ERRORS AND TROUBLESHOOTING

Error	Cause	Explanation / Solution
Load error!	Scale load at start up exceeds 10% of the scale MAX capacity	The pan was not empty while the scale was initiating at startup. Clear the pan and restart the scale.
Capacity exceeded!	Scale range exceeded	The scale has exceeded its weighing capacity. Reduce the weight.
Zero range exceeded!	Attempt to zero the scale that is beyond the scale's Zero range	Reduce the weight to be zeroed and try again.
Tare range exceeded!	Attempt to tare the scale that is beyond the Tare range	Place a weight on a pan before taking a tare.
Tare value not cleared!	Attempt to zero the scale without clearing a prior tare	Remove weight from pan and clear store tare values.
Unit weight too low!	In Pill Counting Individual sample weight is less that 3e	Be sure that the individual piece weight is grater than 3e

Load error! (C01)	Load error while initializing. The pan mass is below 10% of the stored value.	Do not touch or move the scale while calibration is in progress. The pan MUST be empty and properly installed.
Load error! (C02)	Load error while initializing. The pan mass is over 10% of the stored value.	Do not touch or move the scale while calibration is in progress. The pan MUST be empty and properly installed.
Load error! (C03)	Load error while calibrating. The internal calibration mass is below 10% of the original stored mass.	Do not touch or move the scale while calibration is in progress. The pan MUST be empty and properly installed.
Load error! (C04)	Load error while calibrating. The internal calibration mass is over 10% of the original stored mass.	Do not touch or move the scale while calibration is in progress. The pan MUST be empty and properly installed.
Load error! (C05)	Load error while performing second tare during calibration. Mass of the pan is less by more than 1e from the first stored value.	Do not touch or move the scale while calibration is in progress. The pan MUST be empty and properly installed.
Load error! (C06)	Load error while performing second tare during calibration. Mass of the pan is over by more than 1e from the first stored value.	Do not touch or move the scale while calibration is in progress. The pan MUST be empty and properly installed.
Load error! (C07)	Load error during second calibration. The difference on the internal calibration mass from the firs to the second calibration is more than 1e.	Do not touch or move the scale while calibration is in progress. The pan MUST be empty and properly installed.
No external calibration! (C08)	Initial internal calibration test not permitted without prior external calibration	Contact Technical Support
Calibration failure! (C09)	Internal calibration failed because of timeout in final calibration stage (timeout in 30 seconds without stabilization)	Contact Technical Support



If any of the following errors are displayed, please contact technical support at (973)-473-6900

EEPROM1 Error	EEPROM1 memory error (shortage of memory, memory is damaged, or check sum error)
EEPROM2 Error	EEPROM2 memory error (shortage of memory, memory is damaged, or check sum error)
EEPROM Error!	EEPROM1 or EEPROM2 memory error
CRC Error xx	Check sum error number xx in EEPROM memory
Service switch OFF!	Attempt to access the Service mode with the Service Switch in the OFF position
A/D range exceeded!	A/D converter range exceeded
A/D converter read error!	No response from A/D converter
Temperature sensor error!	No response from the temperature sensor
Service switch ON!	Attempt to access the Service Mode without a service command

CHAPTER 28.

MAINTENANCE

Cleaning and maintaining your Prescription Scale:

- Before cleaning the scale always unplug the A/C adapter from the electrical outlet.
- Use a soft, slightly damp cloth to clean the exterior housing of your scale,.
- Wipe the scale gently. Do not allow any liquid to enter into the scale.
- Do not apply extensive pressure to the LCD display.
- Do not use chemicals or benzene when cleaning the surface. Corrosive chemicals may damage the finish.
- Alcohol may be used only to clean the scale's stainless steel pan or the draft ring.


ACCESSORIES

Description	Part No.
Draft Shield Cover	DRX9120
RXP-4 Thermal Printer	DRX9130
RS232 PC Cable	DRX9140

CHAPTER 30.

REPLACEMENT PARTS

Description	Part No.
A/C Adaptor	DRX9150
Pan Assembly	DRX9160
RS232 Printer Cable	DRX9170
Scanner w/ Cable	DRX9780



LIMITED WARRANTY

PURCHASER'S 12-MONTH WARRANTY

Warranty is valid only if the attached warranty registration card is completed and returned within 30 days.

This product is a precision device made to exacting standards of scientific accuracy. It is guaranteed to have been adjusted and inspected for proper workmanship and performance, and certified for its currently advertised specifications before shipment.

Fulcrum Products are warranted against defects in material and workmanship under normal use and service. This warranty is extended only to the first purchaser. This limited warranty will not apply if, upon inspection, it is found that the product was tampered with, misused, overloaded, or abused. mishandled, placed in an improper environment, improperly installed or adjusted, used for a purpose other than that for which it was designed, or repaired by unauthorized personnel.

Fulcrum's liability under this warranty is limited to furnishing labor and parts necessary to remedy the defect covered by this warranty and restore the product to normal operating condition. Purchasers may be charged a minimum repair fee for in-warranty products returned for repair if those products are determined to be problemfree. To make a claim under this limited warranty, obtain an RMA number from Fulcrum and return the product, carefully packed in its original packaging, shipping prepaid, with the RMA number written on the return package.