

SPS-30

Rate Computing Scale

Operation Manual

Revision 1.0
August 7, 1998

Transcell Technology inc.

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NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

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CHAPTER 1: INTRODUCTION TO THE TRANSCCELL MODEL SPS-30 POSTAL COMPUTING SCALE

The Transcell Model SPS-30 Digital Postal Computing Scale is designed for low volume mail-room and shipping applications. It is equipped with many helpful features that guide the operator through the day to day mailing activities.

The Model SPS-30 has a maximum weighing capacity of 30 pounds. It may, however, be connected to an optional Transcell remote scale for weighing and rate calculating to 150 pounds. Refer to Chapter 2 for more information on how to do this. **NOTE:** This configuration is not allowed for commercial (trade) use.

Prior to using the scale, please read this user's guide carefully and completely. Store the manual in a safe and convenient place so it will be available if you have questions concerning the operation of the scale.

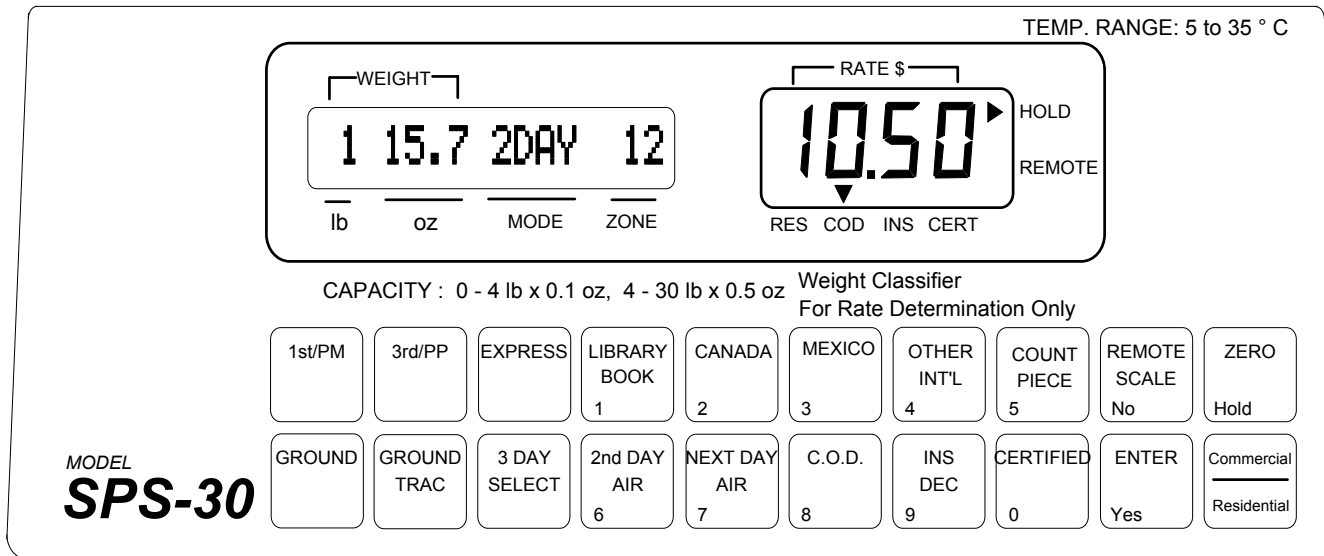


FIGURE 1-1: SPS-30 Front Panel

CHAPTER 2: GETTING STARTED

After unpacking the scale, a small amount of preparation is required before the scale can be used for mailing or shipping. Please refer to Figure 2-1 below as needed.

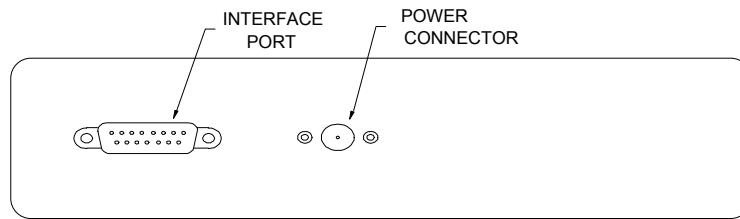


Figure 2-1: SPS-30 Back Panel

- Step 1. Position the scale in its area of intended use. Observe the following guidelines for suitable location.
1. Choose a firm, stable floor or table.
 2. Do not share an AC outlet with electrical noise producing equipment, such as refrigeration units. This includes products with electrical motors and/or relays.
 3. Do not place the scale in an area with changing ambient temperature and/or high humidity.
 4. Do not place the scale in an area prone to exposure to direct sunlight, wind, or dust.
 5. Do not place the scale in an area with vibrating equipment.
- Step 2. Install the platform and sub-platform.
1. Locate the sub-platform, hex screws and Allen wrench.
 2. Place the sub-platform onto the scale's load point with the rubber parts facing up.
 3. Install and tighten the four hex screws.
 4. Place the stainless steel platform on top of the sub-platform.
- Step 3. Install the AC Adapter.
1. After placing the scale in its area of use, locate the Model T1205 AC Adapter.
 2. Connect the male end of the AC Adapter to the connector on the rear of scale, and then plug the adapter into an AC outlet.
- Step 4. If applicable, install the Transcell SP, SPL or PC Series remote scale.
1. Connect the remote scale to the SPS-30's interface port using the optional NMC-2 serial cable.
 2. Configure the remote scale as detailed in Chapter 6.
- Step 5. Turn the scale's AC power on to begin the initialization. The power switch can be found underneath the scale, on the right and towards the back.

CONTINUED →

Step 6. Initialization - The first time the scale is turned on you will be required to enter your origin ZIP Code.

1. When the AC power switch is placed "ON" position, the scale prompts for your "origin ZIP Code".
2. Enter the first three digits of your ZIP Code. The scale displays the ZIP Code entered and prompts you to verify (Yes or No) if the ZIP Code displayed is correct.
3. If the ZIP Code is correct, press the "Yes" (Enter) key to complete the initialization or if the ZIP Code is incorrect, press the "No" (Clear) key and enter the correct ZIP Code.

CHAPTER 3: BASICS OF OPERATION

3.1 DISPLAY

The scale's display is actually two LCD's (Liquid Crystal Display) placed side by side. Both are capable of displaying the various system messages and information.

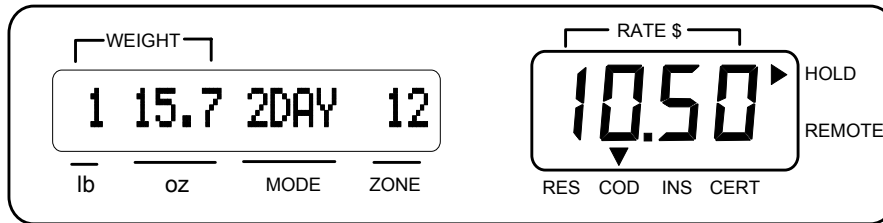


FIGURE 3-1: SPS-30 Display Detail

As shown in Figure 3-1, the scale displays the class of mail, weight, shipping charge (rate) and destination zone or country. When additional information is needed, the scale will prompt for the information. Table 3-1 summarizes the display annunciators.

Annunciator	MEANING
RES	Indicates that a Registered Mail fee is included in the rate shown.
COD	Indicates that a C.O.D. (Collect on Delivery) fee is included in the rate shown.
INS	Indicates that an Insurance or Declared Value fee is included in the rate shown.
CERT	Indicates that a Certified Mail fee is included in the rate shown.
REMOTE	Indicates that the displayed weight is being derived from the remote scale.
HOLD	Indicates that the scale is in Hold mode. Refer to Chapter 5 for more information.

TABLE 3-1: SPS-30 Annunciator Definitions

3.2 KEYBOARD

The keyboard is composed of rate keys, operator keys and function keys. Refer to Figure 3-2 for the overall layout and key locations.



FIGURE 3-2: Rate Keys and Operator Keys Layout

3.2.1 USPS AND UPS RATE KEYS

The following keys allow the access to the USPS rates and UPS rates on the scale keyboard. In each case, pressing the key will select the chosen rate.

3.2.1.1 USPS Rate Keys

1st/PM - This key is used to select the 1st Class or Priority mail rate class

3rd/PP - This key is used to select the Standard Single Piece and the Standard Parcel Post /Intra BMC or Inter BMC rate.

Library/Book (1) - This key is used to toggle between the Special Fourth Class Library rate and the Special Fourth Class Single-Piece (Book) rate. This key is also used as the numeric 1 key when numeric entry is required.

Express - This key is used to select the Express Post Office to Addressee (PO-ADR) rate.

International (Air Only) - The following keys are used to select the International Air rates.

- **Canada (2)** - This key is used to select the International Air Letter & Letter Packages rate to Canada or the International Air Small Packet/Printed Matter rate to Canada. This key is also used as the numeric 2 key when numeric entry is required.
- **Mexico (3)** - This key is used to select the International Air Letter & Letter Packages rate to Mexico or the International Air Small Packet/Printed Matter rate to Mexico. This key is also used as the numeric 3 key when numeric entry is required.
- **Other Int'l (4)** - This key is used to select the International Air Letter & Letter Packages rate to any destination country besides Canada or Mexico. This key is also used as the numeric 4 key when numeric entry is required.

3.2.1.2 UPS (United Parcel Service) Rate Keys

Ground - Selects the Ground Commercial rate or the Ground Residential rate. Use the Commercial/Residential key to toggle.

Ground Trac – This key is currently obsolete. Use the Ground key instead.

3 Day Select - Selects the 3 Day Select rate.

Second Day Air Package (6) - Selects the Second Day Air Package rate and is also used as the numeric 6 key when numeric entry is required.

Next Day Air Package (7) - Selects the Next Day Air Package rate and is also used as the numeric 7 key when numeric entry is required.

3.2.2 OPERATOR KEYS

The remainder of the keys acts as various function keys. Some have to do with rate calculations and some have to do with actual scale operation. In each case, pressing the key will activate the chosen function or prompt for further information.

3.2.2.1 SPECIAL SERVICES KEYS

These keys are used to select the special services for both carriers. If the service is not available with the current class of mail or carrier, the scale will briefly display "Service N/A". If the service is not valid with a previously chosen service, the scale will briefly display "Invalid Service".

Once the chosen service is selected, the scale automatically asks if you wish to select a Return Receipt. If you select "Yes", the scale will include the return receipt fee. If you select "No", the scale will not include the return receipt fee.

- **Registered With/Without Postal Insurance** – Use the Residential/Commercial key to access this special service. If this service is selected, the scale prompts you to enter the Registered Amount. If the amount entered is \$100 or less, the scale prompts "Reg w/ Ins (Y/N?)". If you select "Yes", the scale will include postal insurance. If you select "No", the scale will not include postal insurance. If the amount is over \$100, the scale automatically includes postal insurance.
- **Certified** - If this service is selected, the appropriate fee for the transaction is applied to the displayed rate. This key is also used as the numeric 0 key when numeric entry is required.
- **Collect On Delivery (C.O.D.)** - If this service is selected, the scale displays "Enter Val = 0". Once the value is entered, the appropriate fee for the transaction is applied to the displayed rate. This key is also used as the numeric 8 key when numeric entry is required.
- **Insurance (Declared Value)** - If this service is selected, the scale displays "Enter Val = 0". and allows you to enter the insured amount. After an amount is entered the appropriate fee for the transaction is applied to the displayed rate. This key is also used as the numeric 9 key when numeric entry is required.

3.2.2.2 REMOTE SCALE (NO) KEY

The REMOTE SCALE (No) key is used to toggle between local and remote scale or to answer a YES/NO question. Note that the Remote Scale feature is not allowed for legal for trade applications. To toggle to the Remote Scale, this feature must first be enabled in the Setup Menu. Refer to Section 6.2.2 for more information.

3.2.2.3 ZERO (HOLD) KEY

The ZERO key is used to Zero the scale. When this key is selected, the scale zeros the weight. This key is also used to activate and de-activate the Hold feature, if enabled in the Setup Menu. Note that the Hold feature is not allowed for legal for trade applications. Refer to Section 5.2 for details on how to use the Hold feature.

3.2.2.4 ENTER (YES) KEY

The ENTER (YES) key is used to accept data when in data entry mode or answer a YES/NO question.

3.2.3 FUNCTION KEYS

The function keys are used to access less frequently used scale operations.

3.2.3.1 PIECE COUNT

The Piece Count function puts the scale into a counting mode. Refer Section 5.1 for the Piece Count operation procedure. Note that the counting mode is not available for legal for trade applications.

3.3 GENERAL SCALE OPERATION

3.3.1 SYSTEM PROMPTS

The SPS-30 scale prompts for information in three ways.

- **Numeric Entry** - This type of prompt appears as an “Enter Val” message with an equal sign indicating a zero value. Use the numeric keys to enter the requested data and press the ENTER key to complete the entry.
- **ZIP Code Entry** - This type of prompt appears as a message with three question marks (???) . Use the numeric keys to enter the requested data. There is no need to press the ENTER key to complete the entry.
- **YES/NO Question** - This type of prompt appears as a message with a (Y/N?) suffix. Press the ENTER key for a YES response. Press the REMOTE SCALE key for a NO response.

3.3.2 MAILING OR SHIPPING AN ITEM

There are four basic steps to shipping a letter or package. Refer to Section 4 for detailed examples.

1. Place the letter or package on the scale’s platter and allow the weight indication to stabilize. For more information on weighing an item, see Section 3.3.3.
2. Press a rate key to select the mailing or shipping method. Refer to Section 3.3.4 for more information on selecting the desired class of mail.
3. If the method of shipment and/or the weight of the item requires a ZIP Code, the scale prompts (displays three question marks) for a three digit code. Use the numeric keys to enter the destination ZIP Code. Refer to Section 3.3.5.1 for more detailed information on entering a ZIP Code.
4. If required, select a special service (i.e. Insurance, C.O.D., etc.). Press the appropriate key to select the desired special service. Refer to Section 3.3.6 for more detailed instructions on the special services keys.

3.3.3 WEIGHING A LETTER OR PACKAGE

Before weighing an item, make sure the scale shows a zero weight indication. If it does not, remove all items from the platter and press the ZERO key.

To weigh an item, place it on the center of the weighing platter. Once the weight stabilizes, the scale’s display also stabilizes. If the item weight exceeds the scale’s weight capacity, it displays “OVERWT”.

3.3.4 SELECTING A CLASS OF SERVICE

To select a mailing or shipping rate, simply press the appropriate rate key. The available rates are listed in Section 3.2.1.

3.3.5 ENTERING A ZIP CODE

3.3.5.1 ZIP CODE ENTRY

If the method of shipment and/or the weight of the item requires a ZIP Code, the scale will prompt for a ZIP Code entry.

- When the scale prompts you for a ZIP Code, enter the three-digit destination ZIP code. When you enter third digit, the scale automatically completes the entry.
- You may also enter a destination zone with less than three digits. For example, to enter zone 8, press “8” then press the ENTER key to complete the entry.
- If the scale displays “Invalid ZIP”, re-enter a valid ZIP Code.

3.3.6 SELECTING SPECIAL SERVICES

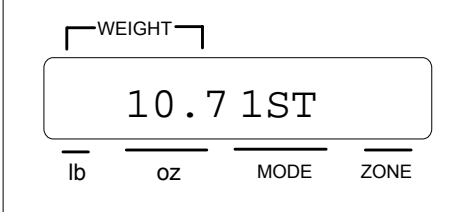
After selecting a rate, press a Special Services key to select a service. If the Special Services key is pressed before a rate is selected, or the special service is not available for the selected class of mail, the scale displays “*Service N/A*”.

When a value must be entered to determine the special service fee (COD, Registered, and Insurance), the scale prompts for a numeric entry. After the amount is entered, press the ENTER key to accept the input.

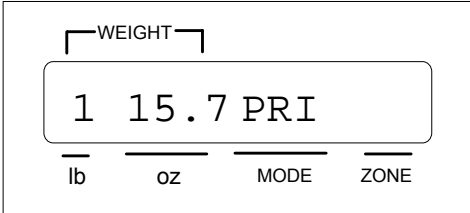
CHAPTER 4: EXAMPLES OF OPERATION

4.1 SENDING A LETTER OR PARCEL BY USPS FIRST CLASS/PRIORITY MAIL

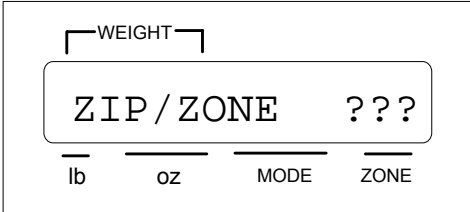
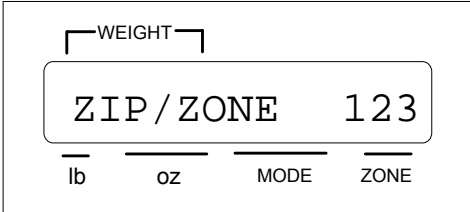
1. 1ST Class Mail (Weight Less Than or Equal To 11 ounces)

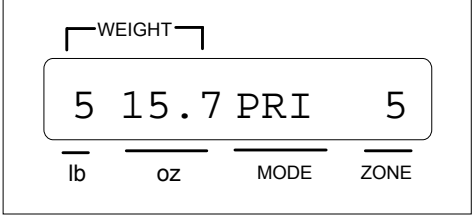
ACTION	DISPLAY EXAMPLE
1. Press the 1 st /Pm key. No further action is necessary.	

2. Priority Mail (Weight from 1 Pound to 5 Pounds)

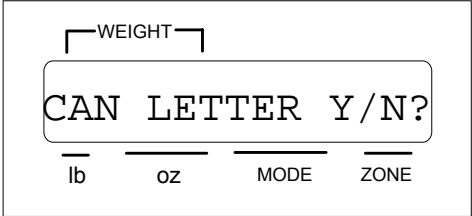
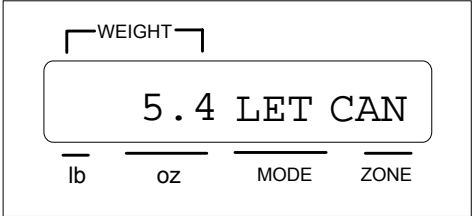
ACTION	DISPLAY EXAMPLE
1. Press the 1 st /PM key. No further action is necessary.	

3. Priority Mail (Over 5 Pounds)

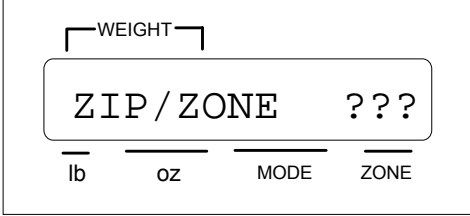
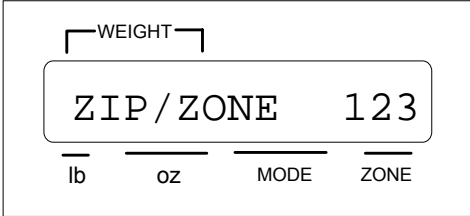
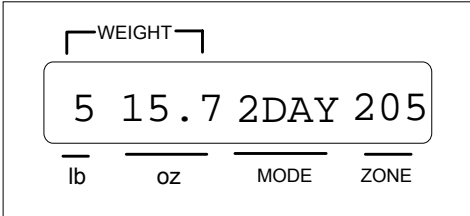
ACTION	DISPLAY EXAMPLE
1. Press the 1 st /PM key.	
2. Enter the first three digits of the destination ZIP code using the numeric keys. In this example, we will use ZIP code 123.	

<p>3. The screen now shows the USPS Priority Mail rate.</p>	
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4.2 SENDING AN INTERNATIONAL AIR LETTER TO CANADA BY USPS

ACTION	DISPLAY EXAMPLE
<p>1. Press the Canada (2) Key.</p>	
<p>2. Press the YES key. The screen now shows the USPS Air Letter rate to Canada.</p>	

4.3 SENDING A PACKAGE BY UPS SECOND DAY AIR

ACTION	DISPLAY EXAMPLE
1. Press the 2 nd Day Air (6) key.	
2. Enter the first three digits of the destination ZIP code using the numeric keys. In this example, we will use ZIP code 123.	
3. The screen now shows the UPS 2 nd Day Air Package rate.	

CHAPTER 5: ADVANCED FEATURES AND OPERATION

5.1 PIECE COUNTING

This function is used to count items of identical weight. To maintain the count accuracy, the following guidelines should be followed.

- All items placed on the scale must be of the same weight.
- The minimum sample count is 10.
- The minimum weight per piece must be 0.1 ounces for a sample count of 10.
- The total weight of the items sampled must be 1 ounce or greater.

1. Remove all items from the scale.
2. Press the ZERO key.
3. Press the PIECE COUNT key. The scale prompts you to place a 10-piece sample count on the scale.
4. Place the 10 piece sample count on the scale. The scale prompts you to press the ENTER key.
5. Press the ENTER key.
6. Remove the sample count from the scale.
7. Place the items to be counted on the scale. As items are added to or removed from the scale the display reflects count.

NOTE: If the total weight of 10 samples is less than 1 ounce, it will not register as a full sample. If this occurs, press the ENTER key and the scale will prompt for a 20-piece sample count.

5.2 HOLD MODE

This function is used to lock the weight of an item on the screen so that, when removed, that item can be rate-shopped. This is designed for large items that may obscure the scale's display. The weight appears locked on the screen until the ZERO key is pressed.

This feature can be activated and de-activated during normal operation of the scale. Upon power-up, this feature is de-activated.

1. Remove all items from the scale.
2. Press and hold the ZERO key until the scale briefly displays "Enable Hold".
3. Place the item on the scale and wait a few seconds for the weight to stabilize.
4. Remove the item from the scale. The weight remains locked on the display.
5. Select the appropriate rate and special services.
6. Press the ZERO key to return to normal scale operation.

CHAPTER 6: SETUP OPERATION

6.1 SETUP OPERATION OVERVIEW

The system setup consists of three setup areas: Setup Menu, Calibration Menu and Analog to Digital Conversion Diagnostic Menu.

6.2 SETUP MENU

The Setup Menu is used to configure the Origination ZIP code, Remote Scale, Filter and Buzzer setup.

1. Press and hold the ZERO key while turning on the scale. When the message "ZIP Code OK?" appears on the screen, you are in Setup Menu Mode and you may release the ZERO key.

6.2.1 ORIGINATION ZIP CODE

This function is used to program your origination ZIP code.

1. Enter the Setup Menu Mode as described above. The scale prompts " ZIP Code OK?" and displays the current ZIP code.
2. Press the ENTER (Yes) key to accept the displayed ZIP code or press the REMOTE SCALE (No) key to change the ZIP code.

Note: If "Yes" is selected, the scale proceeds to the Remote Scale Setup. If "No" is selected, the message "Input ZIP = ????" appears in the display.

3. Using the numeric keys, enter the first three digits of your ZIP code. Once all three digits are entered, the scale prompts " ZIP Code OK?" and displays the current ZIP code. Repeat Step 2.

6.2.2 REMOTE SCALE ENABLE/DISABLE

This function is used to enable or disable the Remote Scale interface. Note: In order to work properly, the Transcell SP, SPL or PC Series remote scale must have its serial port configuration set to the factory default settings. Consult the remote scale's operation manual for more information.

1. Enter the Setup Menu Mode as described above and press the ENTER key until the scale prompts " Remote Scale OK?" and displays the current status (ON/OFF) of the remote scale.
2. Press the ENTER (Yes) key to accept the displayed remote scale status or press the REMOTE SCALE (No) key to change the remote scale status.

Note: If "Yes" is selected, the scale proceeds to Filter Setting. If "No" is selected, the status toggles between ON and OFF.

6.2.3 FILTER SETTING

This function is used to set the scale's response time versus stability. A filter setting of zero gives you a fast response, but little stability. A filter setting of 2 gives you the maximum stability, but is a little slower. A filter setting of 1 is a compromise between the first two settings. If you are using the scale for rate computation, it is suggested that you use a setting of 2.

1. Enter the Setup Menu Mode as described above and press the ENTER key until the scale prompts " Filter OK?" and displays the current setting (0-2) of the filter.
2. Press the ENTER (Yes) key to accept the displayed filter setting or press the REMOTE SCALE (No) key to change the filter setting.

Note: If "Yes" is selected, the scale proceeds to the Buzzer Setup. If "No" is selected, the message "Filter? (0-2)" appears in the display.

3. Using the numeric keys, enter the new filter setting. The scale prompts " Filter OK?" and displays the current filter setting. Repeat Step 2.

6.2.4 BUZZER ENABLE/DISABLE

This function is used to enable or disable the audible tone heard when a key is pressed.

1. Enter the Setup Menu Mode as described above and press the ENTER key until the scale prompts " Keypad Beep OK?" and displays the current status (ON/OFF) of the buzzer.
2. Press the ENTER (Yes) key to accept the displayed buzzer status or press the REMOTE SCALE (No) key to change the buzzer status.

Note: If "Yes" is selected, the scale proceeds to Exit Setup Mode. If "No" is selected, the status toggles between ON and OFF.

6.2.5 EXIT SETUP MODE

This function is used to exit the Setup Mode and return to Normal Operating Mode.

1. After the Buzzer status is set, the scale prompts " Exit Setup? Y/N".
2. Press the ENTER (Yes) key to return to normal operating mode or press the REMOTE SCALE (No) key to start over with the ZIP code entry.

6.3 CALIBRATION MENU

Your SPS scale ships from the factory fully calibrated. There is no need to calibrate the scale unless you feel that it has become inaccurate. It is a good idea to check the calibration of your scale from time to time with a precision test weight. Transcell recommends that you perform a new calibration on your digital scale at least once a year.

The SPS-30 scale may be calibrated using precision test weights of 4 lb and 30 lb. Please note that if the unit is sealed for use in commercial applications, this calibration procedure is inhibited. See Chapter 7 for more information.

1. Enter the Calibration Mode by pressing and holding the Library/Book (1) key while turning on the scale. When the message "Calibration? Y/N" appears on the screen, you are in Calibration Mode and you may release the Library/Book (1) key.
2. Press the ENTER (Yes) key enter the calibration mode. The scale displays the message "C 0 PR ZERO".
3. Remove all items from the scale's platter and then press the ZERO key to zero the scale. The scale displays the message "C 0 PR ENTER".
4. Press the ENTER key to save the zero point value. The scale displays the message "C 4".
5. Place the 4 lb test weight(s) onto the scale's platter. When the weight stabilizes, the scale displays the message "C 4 PR ENTER".
6. Press the ENTER (Yes) key to save the 4 lb calibration value. The scale displays the message "C 30".
7. Place the 30 lb test weight(s) onto the scale's platter. When the weight stabilizes, the scale displays the message " PR ENTER".
8. Press the ENTER (Yes) key to save the 30 lb calibration value. The scale then displays the message "Calibration End".
9. Turn OFF the scale then turn back ON to resume normal operation.

6.4 ANALOG TO DIGITAL CONVERSION (ADC) DIAGNOSTIC MENU

This menu is reserved for Transcell technical personnel only.

CHAPTER 7: LEGAL FOR TRADE SEALING

7.1 SEALING METHOD

The SPS-30 scale can be sealed for commercial (Legal for Trade) applications as follows. You will need the optional NTEP kit to complete this procedure.

1. Turn off the scale and unplug the AC Adapter from the back of the scale.
2. Remove the scale platter and set aside.
3. Remove the scale sub-platter that is held in place by four Allen head screws and set aside.
4. Remove the three Phillips head screws that secure the top housing to the bottom housing.
5. Lift off the upper housing. You may leave the ribbon cable connected.
6. Locate jumper J2 on the main circuit board. Insert the two-position shunt that came with the NTEP kit onto jumper J2.
7. Re-assemble the scale but do not yet replace the platter.
8. Turn the scale over and thread a wire security seal through the opening in the longer mounting screw that protrudes through the metal base plate. This prevents access to the J2 lockout jumper.
9. Turn the scale upright. Use the alcohol swab to clean the rubber surface of the sub-platter.
10. After allowing the alcohol to dry, apply the Security Seal over two (2) of the sub-platter mounting screws. This also prevents access to the J2 lockout jumper.
11. Replace the platter, plug in the AC adapter, and switch ON the scale. The scale is now ready for use in "legal-for-trade" applications.

APPENDIX A: SPECIFICATIONS

CAPACITY:

0–4 lb x 0.1 oz

4–30 lb x 0.5 oz

CONSTRUCTION:

Housings: Ivory ABS

Sub-Platform: Metal

Platter: Stainless Steel

Feet: Non-skid Hard Rubber

DISPLAYS:

16 x 1 Alpha, Liquid Crystal

4 Digit, 7-Segment, Liquid Crystal

KEYPAD:

20-key Membrane Switch

OVER CAPACITY ANNUNCIATION:

103% of Full Scale Capacity

NON-LEGAL-FOR-TRADE OPERATING TEMPERATURE RANGE:

32°F to 104°F

(0°C to 40°C)

LEGAL-FOR-TRADE OPERATING TEMPERATURE RANGE:

41°F to 95°F

(5°C to 35°C)

POWER SOURCE:

AC Adapter, 12VDC, 500 mA,
included

SERIAL PORT:

Full Duplex RS-232,

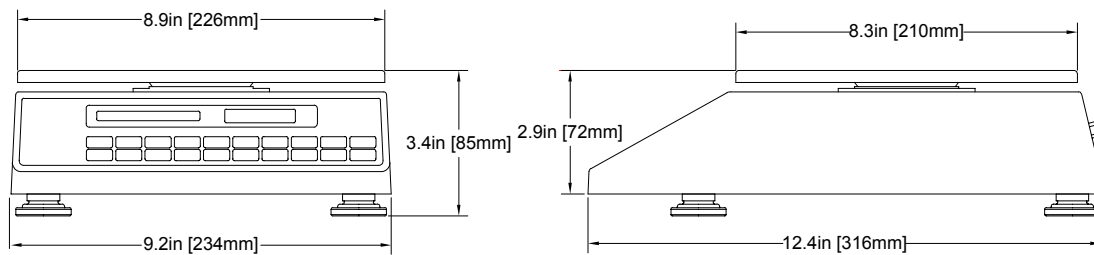
Female DSUB9

WEIGHT:

Net Weight: 8.8 lb (4 kg)

Shipping Weight: 11.5 lb (5.3 kg)

PHYSICAL DIMENSIONS:



APPENDIX B: STANDARD RATES, SPECIAL SERVICES AND FUNCTIONS

B.1 STANDARD RATES, SPECIAL SERVICES AND FUNCTIONS

B.1.1 UNITED STATES POSTAL SERVICE (USPS)

- 1st/Priority
- Express PO-ADR
- Standard
- Book
- International
 - Air – Letter (All Destinations), Printed Matter (Canada & Mexico Only)
- Library

B.1.2 UNITED PARCEL SERVICE (UPS)

- Next Day Air Package
- 2nd Day Air Package
- 3-Day Select Package
- Ground Package Commercial/Residential

B.1.3 SPECIAL SERVICES

- Registered with Insurance
- Registered without Insurance
- Insurance
- Collect On Delivery (COD)
- Return Receipt
- Certified

B.1.4 FUNCTIONS

- Remote Scale
- Hold
- Enter
- ZIP Code Origin
- Piece Count
- Special Services
- Zero Scale
- Residential / Commercial

APPENDIX C: RATE AND SPECIAL SERVICE ABBREVIATIONS

C.1 RATE ABBREVIATIONS

Rate	Display Abbreviation.
USPS First 1st Class (<11 oz)	1ST
USPS 1st Priority (>11 oz)	PRI
USPS Express PO-ADR	EXP
USPS Standard Single Piece (<16 oz)	STD
USPS Standard Parcel Post (>16 oz)	STD
USPS Book	BOOK
USPS Library	LIB
USPS International Air Letter to Canada	LET CAN
USPS International Air Printed Matter to Canada	PKT CAN
USPS International Air Letter to Mexico	LET MEX
USPS International Air Printed Matter to Mexico	PKT MEX
USPS International Air Letter to Other Destinations	LET OTH
UPS Next Day Air Package	NEXT
UPS 2nd Day Air Package	2DAY
UPS 3-Day Select Package	3DAY
UPS Ground Commercial	GRD
UPS Ground Residential	GRD ¹

¹ When UPS Ground Residential is selected, an “R” is added to the displayed zone.

APPENDIX D: RATE CHANGE INFORMATION

D.1 RATE UPDATES

Transcell updates carrier rate and structure changes. The rates and operating system reside on one Rate Chip, which is removable from the scale for reprogramming purposes.

1. Turn the scale's AC power switch to the off position. Unplug the power cable and remote scale cable, if applicable.
2. Remove the scale's stainless steel platter and set aside.
3. Turn the scale over on its left side as shown in the Figure D-1.
4. Remove the metal cover concealing the Rate Chip Compartment by removing the screws. There are tabs at either end of the Rate Chip.
5. Use the flat blade of a standard screwdriver to *gently* pry old Rate Chip out of its socket.
6. Install the new Rate Chip in its socket by pressing firmly until it is completely seated in its socket. There is no way to install the chip backwards.
7. Replace the Rate Chip Compartment's metal cover and return the scale to its normal upright position.
8. Replace the stainless steel platter. Re-connect the power supply and remote scale, if applicable.
9. Turn the scale's AC power switch to the on position. Your scale is now ready for use with its new, updated rates.

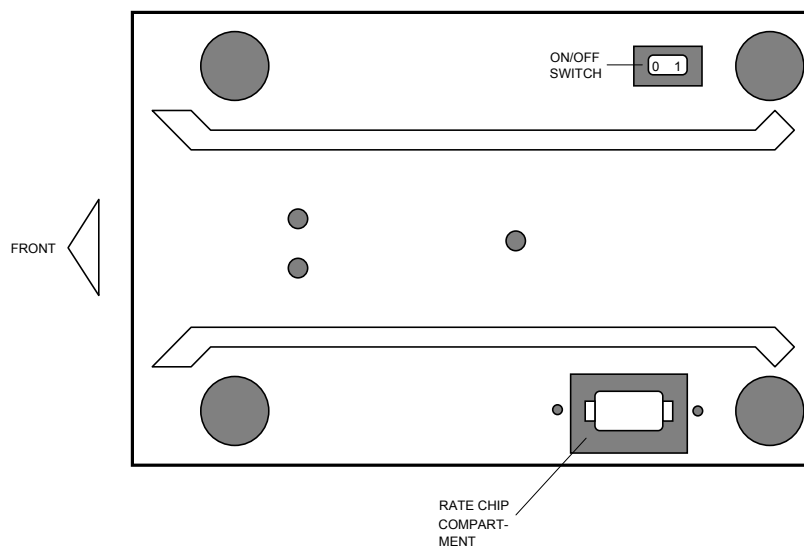


FIGURE D-1: SPS-30 Bottom View

APPENDIX E: ERROR MESSAGES

E.1 ERROR MESSAGES

If the scale encounters an error condition, it will display a message alerting the operator. A description of each display follows:

E.1.1 OPERATOR ERRORS

Message	Explanation
<i>ovwt</i>	Indicates that the weight for the class of service selected has been exceeded
<i>underwt</i>	Indicates that the weight for the class of service selected is too light
<i>OVERWT</i>	Indicates that the weighing capacity of the scale has been exceeded
-----	Indicates that the weight reading is less than zero
<i>Invalid Zip Code</i> <i>Invalid Zone #</i>	Indicates that an invalid ZIP code or zone was entered
<i>Service N/A</i>	Indicates that the special service is not valid for the class of mail selected
<i>Invalid Service</i>	Indicates that the special service is not valid with the current special service(s) selected.



TRANSCELL TECHNOLOGY, INC.



MODEL
SPS-70 DL
DIGITAL POSTAL SCALE

User Manual

Revision 1 May 13, 2009

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Contents subject to change without notice.



THIS EQUIPMENT CONTAINS NO USER SERVICEABLE COMPONENTS.

Servicing of the equipment must only be carried out by trained and authorized personnel.

Use only the AC adapter supplied with the scale. Other adapters may cause damage.



Routine maintenance

Harsh abrasives, solvents, scouring cleaners and alkaline cleaning solutions should not be used; especially on the display window.

The outside of the product may be wiped down with a clean cloth, moistened with water containing a small amount of soap.

Installation

- Ensure that the scale is placed securely on a flat and level surface.
- Avoid installing the scale in areas of direct sunlight and high humidity. Also avoid drafts, vibrations and dusty conditions.
- To extend the life of your digital scale, do not drop items to be weighed onto the platform or overload the scale beyond its rated capacity. Shock-loading and overloading may damage the load cell and void the warranty.

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class A 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.

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INTRODUCTION

The Transcell Model SPS-70DL Digital Postal Computing Scale is designed for low volume mailroom shipping applications. It is equipped with many helpful features that guide the operator through the day to day mailing activities.

The Model SPS-70DL has a maximum weighing capacity of 70 pounds although an optional 150 pounds remote scale is available.

Prior to using the scale, please read this user's guide carefully and completely. Store the manual in a safe and convenient place so it will be available if you have questions concerning the operation of the scale.

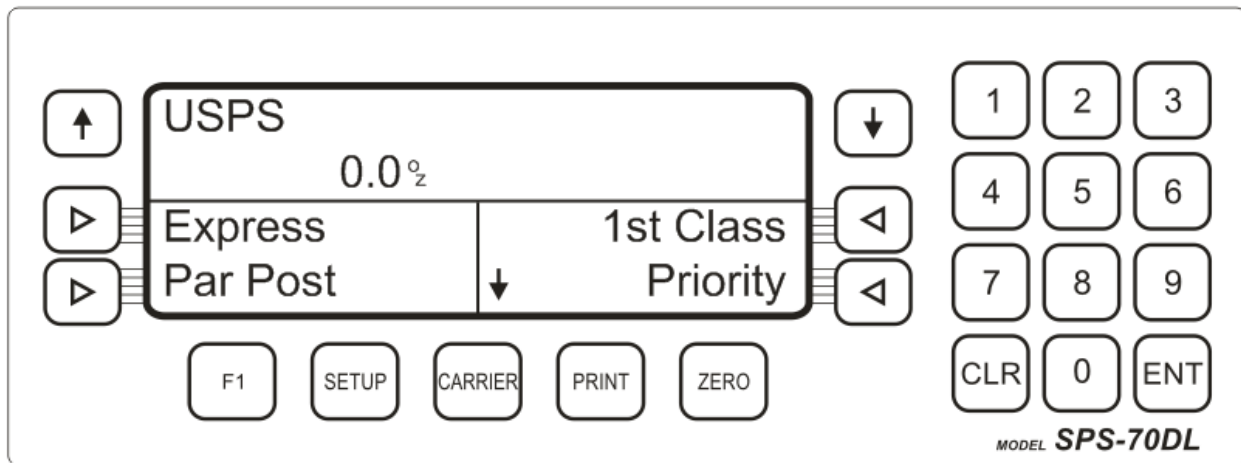


FIGURE 1: SPS-70DL Front Panel

GETTING STARTED

After unpacking the scale, a small amount of preparation is required before the scale can be used for mailing or shipping. Please refer to Figure 2 below as needed.

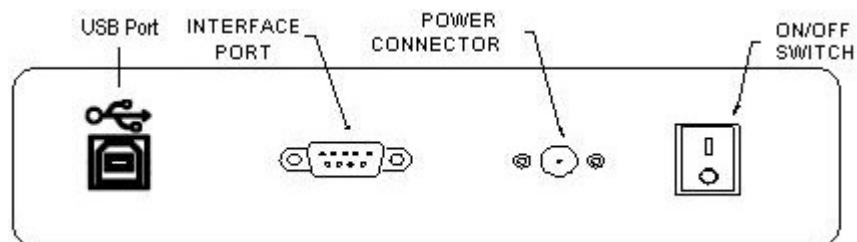


Figure 2: SPS-70DL Rear Panel

Step 1. Position the scale in its area of intended use. Observe the following guidelines for suitable location.

1. Choose a firm, stable floor or table.
2. Do not share an AC outlet with electrical noise producing equipment, such as refrigeration units. This includes products with electrical motors and/or relays.
3. Do not place the scale in an area with changing ambient temperature and/or high humidity.

4. Do not place the scale in an area prone to exposure to direct sunlight, wind, or dust.
5. Do not place the scale in an area with vibrating equipment.

Step 2. Install the AC Adapter.

1. After placing the scale in its area of use, locate the Model A41408 AC Adapter.
2. Connect the female end of the AC Adapter to the connector on the rear of scale, and then plug the adapter into an AC outlet.

Step 3. Turn the scale's AC power on to begin the initialization.

Step 4. Initialization - The first time the scale is turned on you will be required to enter your origin ZIP Code.

1. When the AC power switch is placed "ON" position, the scale prompts for your "origin ZIP Code".
2. Enter the first three digits of the ZIP Code from which all items will be mailed. There is no need to press the ENT key

BASICS OF OPERATION

DISPLAY

The display is an LCD (Liquid Crystal Display) display capable of displaying the various system messages and information.

PRI		Zn: 8
2 lb	1.8 oz	\$11.95
Certified		Regstd
COD		Ret Rcpt

FIGURE 3: SPS-70DL Display Detail

As shown in Figure 3, the scale displays the class of mail, weight, shipping charge (rate) and (if applicable) destination zone or country. The display also contains up to four soft keys which are covered in the next section.

Whenever additional information is needed, the scale will automatically prompt for the information.

KEYBOARD

The keyboard is composed of soft keys, numeric keys and function keys.

SOFT KEYS

Both the LCD and the six keys located next to the LCD make up the soft keys. These six keys interact with the display and are used to make menu selections that guide you through the rate calculation process.

- Use the UP arrow key to scroll the selection page up
- Use the Down arrow key to scroll the selection page down
- Use the horizontal arrow keys (< and >) to make your selection

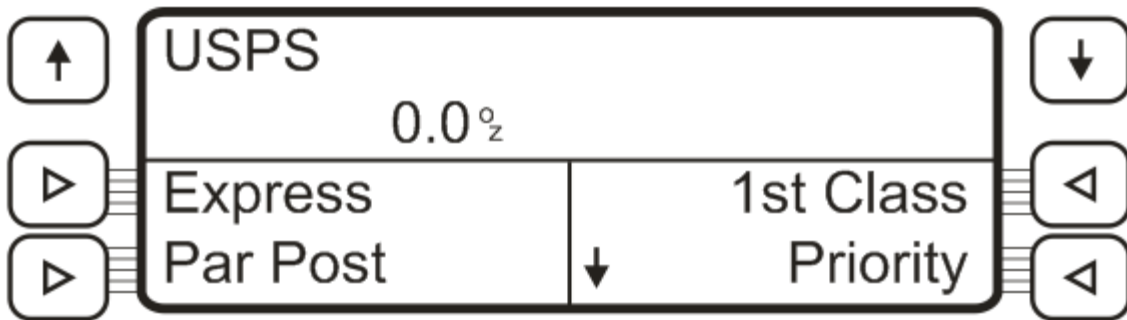


FIGURE 4: Soft Keys Layout

OPERATOR KEYS

The operator keys access certain scale functions. In each case, pressing the key will activate the chosen function or prompt for further information.



FIGURE 5: Operator Keys Layout

F1 – This key allows you to access the following functions: Piece Counting, Remote Scale, Manual Weigh Entry, and Semi-automatic Hold

Setup - This key accesses the Setup Menu which allows scale configuration

Carrier - This key is used to toggle among the available postal carriers

Print - This key is used to send weight information out to the serial port

Zero - This key is used to zero out the weight display

NUMERIC KEYS

The numeric keys are used to enter information into the scale when prompted.



FIGURE 6: Numeric Keys Layout

The CLR key performs many useful but intuitive functions.

- Press and hold the CLR key at any time to return to the Home Screen.
- Use the CLR key to return to the previous soft key screen level
- When entering data, use the CLR key to clear the current entry
- Use the CLR key to clear all special services selected at once

The ENT key is used to accept confirm a selection or entered data.

GENERAL SCALE OPERATION

SYSTEMS PROMPTS

The SPS-70DL scale prompts for information in two ways.

1. Numeric Entry - This type of prompt appears as an “Enter Val” message. Use the numeric keys to enter the requested data and press the ENT key to complete the entry. If you make a mistake during the entry, press the CLR key to start over.
2. ZIP Code/ Country Code Entry - This type of prompt appears as a message with three dash marks. Use the numeric keys to enter the requested data. There is no need to press the ENT key to complete the entry. If you make a mistake during the entry, press the CLR key to start over.

MAILING OR SHIPPING AN ITEM

There are four basic steps to shipping a letter or package. Refer to the next section for detailed examples.

1. Select the mailing or shipping carrier you wish to use, e.g. the United States Postal Service (USPS), United Parcel Service (UPS) and FedEx Express (FedEx)

*Press the Carrier key and look to see which carrier is selected (denoted by an arrow).
Press the soft key pertaining to the carrier you want and then press the ENT key.*

2. Weigh the item you wish to mail

Remove all items from the platter, press the ZERO key and then place the item on the weighing platter.

3. Select the desired class of mail by using the soft keys.

Use the soft keys to select a class of mail, making additional selections as necessary. If the method of shipment and/or the weight of the item require a ZIP Code or country code, the scale prompts for a three digit code. Use the numeric keys to enter the destination ZIP Code or country code.

4. If desired, use the soft keys to select a special service (i.e. Insurance, C.O.D., etc.).

When a value must be entered to determine the special service fee (e.g. COD, Registered, and Insurance), the scale prompts for a numeric entry. After the amount is entered, press the ENT key to accept the input.

ADVANCED COUNTRY CODE OPERATION

If you don't know the country code, you have two options:

1. List All – This selection lists all countries on the screen in alphabetical order. Press the up or down arrow key to page up or down thru the list. Press and hold the up or down arrow key to quickly scroll through the entire list. Press a soft key to select the desired country.

INTL COUNTRY	
Country Code:	— — —
	List All
	Favorites

Figure 7

2. Favorites – This selection displays an alphabetical user created list of countries. The user may add up to 32 countries to this list. Press the up/down arrows to page up or down thru the list. Press and hold the up or down arrow key to quickly scroll through the entire list. Press a soft key to select the desired country.

EXAMPLES OF OPERATION

SENDING A LETTER OR PARCEL BY USPS

First Class Mail Letter

1. Press the CARRIER key.
2. Select USPS soft key and then press ENT.
3. Select 1ST Class soft key.
4. Select Letter soft key

1ST L		
0.8 oz		\$ 0.44
Insurance		Regstd
Certified		Ret Rcpt

Priority Mail Parcel

1. Press the CARRIER key.
2. Select USPS soft key and then press ENT.
3. Select Priority soft key.
4. Select Parcel soft key
5. Enter first three digits of destination ZIP code

PRI		Zn: 8
1 lb	3.8 oz	\$ 8.70
Insurance		Regstd
Certified		Ret Rcpt

First Class Mail International Letter

1. Press the CARRIER key.
2. Select USPS soft key and then press ENT.
3. Select Intl soft key (Tip: use the down arrow key to page down).
4. Select 1ST Class soft key
5. Select Letter soft key
6. Enter country code or select country from list

INT FCI L		237
2.8 oz		\$ 1.25
Regstd		Oversize
Ret Rcpt		

Priority Mail International Regular Flat-rate Box

1. Press the CARRIER key.
2. Select USPS soft key and then press ENT.
3. Select Intl soft key (Tip: use the down arrow key to page down).
4. Select Priority soft key
5. Select Rg Box soft key
6. Enter country code or select country from list

INT PMI RB	237
2 lb 3.9 oz	\$ 25.95
Insurance	
Ret Rcpt	

SENDING A LETTER OR PARCEL BY UPS

UPS 2nd Day Air A.M. Letter to Commercial Address

1. Press the CARRIER key.
2. Select UPS soft key and then press ENT.
3. Select 2ND AM soft key.
4. Select Com Let soft key
5. Enter first three digits of destination ZIP code

2ND AM CL	Zn:245
8.9 oz	\$ 12.85
COD	Del Conf
Insurance	Sig Conf

UPS Ground Parcel to Residential Address

1. Press the CARRIER key.
2. Select UPS soft key and then press ENT.
3. Select Ground soft key.
4. Select Res Pcl soft key
5. Enter first three digits of destination ZIP code

GND RP	Zn:6
55 lb 12.9 oz	\$ 31.19
COD	Del Conf
Insurance	Sig Conf

SENDING A LETTER OR PARCEL BY FEDEX EXPRESS

FedEx Priority Overnight Letter to Commercial Address

1. Press the CARRIER key.
2. Select FedEx soft key and then press ENT.
3. Select Priority soft key.
4. Select Com Let soft key
5. Enter first three digits of destination ZIP code

PRI CL	Zn:2
8.9 oz	\$ 16.15
Insurance	Sig Conf
Del Conf	

FedEx Express Saver to Residential Address

1. Press the CARRIER key.
2. Select FedEx soft key and then press ENT.
3. Select Exp Saver soft key.
4. Select Res Pcl soft key
5. Enter first three digits of destination ZIP code

SAV RP	Zn:6
55 lb 12.9 oz	\$ 107.60
COD	Add Hand
Insurance	Del Sur

ADVANCED FEATURES AND OPERATION

PROGRAMMABLE SHORTCUT KEYS

The scale contains 10 programmable shortcuts which are little macros which can be used to save key-strokes. The shortcuts are stored and retrieved by using the numeric keys 0-9.

All 10 shortcuts must be shared among the three postal carriers (USPS, UPS and FedEx). To use a shortcut, the user must first switch to the right carrier.

Out of the box, none of the shortcuts are programmed. Please keep track of each shortcut programmed for future reference.

NOTE: Before starting, the scale must be at its HOME screen and at zero; you must also determine which numeric key you will use to store the shortcut under, e.g. #1, #2, etc.

How to program Shortcuts

1. Remove all items from the scale and press the ZERO key
2. Press and hold the CLR key until you hear double beep at which point you can release the key
3. Switch to the proper carrier, e.g. USPS, UPS or FedEx
4. Select the class of mail and (if desired) special services
5. Press and hold a numeric key (0-9) of your choice

When you hear the double beep and the screen says "Shortcut Saved" you may release the numeric key

How to run a Shortcut

1. Press and hold the CLR key until you hear double beep at which point you can release the key
2. Switch to the proper carrier, e.g. USPS, UPS or FedEx
3. Press the numeric key you saved the shortcut under

Scale automatically runs the shortcut and prompts you for any additional information as needed

How to delete a Shortcut

1. Press and hold the CLR key until you hear double beep at which point you can release the key
2. Press and hold the numeric key corresponding to the shortcut you wish to erase

When you hear the double beep and the screen says "Shortcut Saved" you may release the numeric key

COUNTRY FAVORITES LIST

The scale contains a programmable favorites list for destination countries you might use more often. You can more easily navigate to the favorites list and select a country thus saving you valuable time.

How to add countries to the Favorites List

1. Place an item on the scale and select an International class of mail
2. Select the List All soft key
3. Use the up or down arrow keys to scroll to the page which lists the destination country to be added
4. Press and Hold the soft key next to the country to be added

The scale will show "Country Saved" and then return to the list. Next time use the Favorites soft key to access this country.

How to delete countries from the Favorites List

1. Place an item on the scale and select an International class of mail
2. Select the Favorites soft key
3. Use the up or down arrow keys to scroll to the page which lists the destination country to be deleted
4. Press and Hold the soft key next to the country to be deleted

The scale will show "Country Deleted" and then return to the list.

PIECE COUNTING

This function is used to count items of identical weight and is accessible via the F1 key. To use this feature you must first sample a small quantity (10 to 100) of the parts you wish to count. The available sample sizes will be shown in the soft key area of the screen.

To maintain the count accuracy, the following guidelines should be followed.

- All items placed on the scale must be of uniform weight.
- The minimum sample count is 10.
- The minimum weight per piece must be 0.1 ounces for a sample count of 10.
- The total weight of the items sampled must be 1 ounce or greater.

How to use Piece Counting

1. Remove all items from the scale
2. Press the ZERO key
3. Press the F1 key
4. Select the Counting soft key

The scale prompts you add your sample lot to the platter

5. Add your sample lot to the scale platter

The scale prompts you to select your sample size

6. Select the soft key pertaining to your sample size

Scale shows the number of pieces on the platform as well as unit weight in ounces.

Use the CLR key to exit piece counting mode and return to normal operating mode.

HOLD MODE

This function is used to help rate an oversized item which, when placed onto the scale, would block the display. This feature will not work for items weighing less than 5 oz.

How to use Hold Mode

1. Remove all items from the scale
2. Press the F1 key
3. Press the Hold soft key

Scale briefly displays "Hold Enabled"

4. Place oversize item onto scale.

When the scale beeps you may remove the item and perform necessary rating functions

5. Remove the oversized item and continue rating as required

Use the CLR key on the home screen to exit hold mode and return to normal operating mode.

MANUAL WEIGHT ENTRY

This function was designed for use when you already know the weight of an item.

How to use Manual Weight Entry

1. Remove all items from the scale
2. Press the F1 key
3. Press the Man Wt soft key

Scale prompts "Enter Pounds";

4. Key-in the pounds portion of the item and press the ENT key

If you attempt to enter in more than 150 pounds (70 pounds for USPS) then the scale will display an error message and ask you to enter in the weight again

Scale prompts "Enter Ounces"

5. Key-in the ounces portion of the item and press the ENT key

If you attempt to enter in more than 15.9 ounces then the scale will display an error message and ask you to enter in the weight again

6. Continue rating as required

Use the CLR key on the home screen to exit manual weight entry mode and return to normal operating mode.

REMOTE SCALE MODE

This function was designed for items weighing more than 70 pounds. An optional 150 pound scale is required.

Important! Before you can use Remote Scale Mode, you must first configure the F1 key; please see the SETUP OPERATION section for more information.

How to use Remote Scale Mode

1. Remove all items from the scale
2. Press the F1 key
3. Press the Remote soft key
Scale briefly displays "Switch to Remote"
4. Press the CLR key to return to rating mode and continue rating as required
5. Repeat this procedure to return back to the local scale

Scale briefly displays "Switch to Local"

CHANGE ZIP/COUNTRY

This function was designed to allow you to change the destination ZIP code or country without first removing the item from the scale.

How to use Change ZIP/Country

1. At any time, press the F1 key
2. Press the Zip/Cntry soft key
If you have selected a domestic class of mail, the scale prompts for the new destination ZIP code
If you have selected an international class of mail, the scale prompts for the new destination country code
3. Key-in the new ZIP code or country code

Scale displays the rate based on the new destination information

SETUP OPERATION

SETUP OPERATION OVERVIEW

The system setup consists of three setup areas: Configure Service, and Rate Table.

CONFIGURE MENU

The Configure Menu is used to configure the Origination ZIP code, F1 Key and Beeper.

- Origination ZIP code - In order to calculate the proper rate, the scale needs to know the ZIP code from which the item will be mailed or shipped; this is the origination ZIP code and it was programmed when you first received the scale, however it can be changed here if needed
- F1 key - The F1 key can contain up to five (5) functions which will appear on the soft key menu; program the four functions you would like to use here; out of the box four functions already appear: Piece Counting (Counting), Manual Weight Entry (Man Wt), Hold Model (Hold) and Change ZIP/Country (Zip/Cntry)
- Beeper – The audible beeper is very useful for sale operation; however you can disable it here

How to use change the Origination ZIP Code

1. At any time, press the Setup key
2. Press the Configure soft key
3. Press the Org ZIP soft key

Scale displays the current origination ZIP code and prompts you to enter in the new one

4. Key-in the new origination ZIP code

Scale reverts back to Configure screen; press the CLR key to return to normal operating mode

How to use configure the F1 key

1. At any time, press the Setup key
2. Press the Configure soft key
3. Press the F1 soft key

Scale displays the available functions along with the status, i.e. ON or OFF. For example, Pcs – ON means that Piece Counting is turned ON.

4. Press the soft key next to the function you wish to turn ON or turn OFF

The status of the function changes from ON to OFF or from OFF to ON

5. You must press either the ENT key or the CLR key to save your changes; if you switch the scale OFF, all changes will be lost

Scale reverts back to Configure screen; press the CLR key to return to normal operating mode

How to configure the Beeper

1. At any time, press the Setup key
2. Press the Configure soft key
3. Press the Beeper soft key

Look to see which beeper status (ON or OFF) is selected (denoted by an arrow).

4. Press the soft key pertaining to the status you want and then press the ENT key.

Scale reverts back to Configure screen; press the CLR key to return to normal operating mode

SERVICE MENU

The Service Menu is used to configure the system time and date, perform diagnostics and perform scale calibration. The service menu is password protected.

- Scale Calibration – When needed, use this menu to perform digital scale calibration with known test weights
- Diagnostics – This menu can access three (3) diagnostic tests: A/D Test, LCD Test and Keyboard Test
- Time/Date – This menu should be used to configure system time and date

How to perform Scale Calibration

Your SPS-70DL postal scale is ready to use right out of the box. There is no need to calibrate the scale unless you feel that the scale has become inaccurate. It is a good idea to check the calibration of your scale from time to time with a precision test weight.

1. At any time, press the Setup key
2. Press the Service soft key

Scale prompts you to enter in a password

3. Key-in the password (336699) and then press the ENT key

Scale displays the available menus on the soft key screen

4. Press the Calibrate soft key

Scale prompts you to remove all items from the platter

5. Make sure that the platter is clear and then press the ENT key

Scale prompts you to place 4 pounds onto the scale

6. Make sure that you have placed the proper test weight onto the scale platter and then press the ENT key

Scale displays "Please Wait" briefly and then prompts you to place 50 pounds onto the scale

7. Make sure that you have placed the proper test weight onto the scale platter and then press the ENT key

Scale displays "Please Wait" briefly and then indicates "Calibration Saved" if successful. Otherwise the scale displays the error message "Weight Too Light"

How to perform Analog to Digital Conversion (A/D) Test

The Analog to Digital Conversion (A/D) Test can be used to troubleshoot a damaged load cell, a bad connection or a faulty internal component. Please contact a Transcell service representative for assistance.

1. At any time, press the Setup key
2. Press the Service soft key

Scale prompts you to enter in a password

3. Key-in the password (336699) and then press the ENT key

Scale displays the available menus on the soft key screen

4. Press the A/D Test soft key

*Scale displays system information as follows:
adindex => a/d counter indicates buffer size
A/D => internal A/D converter counts*

5. Press the CLR key to exit the test

Scale reverts back to Service screen; press the CLR key to return to normal operating mode

How to perform LCD Test

The LCD Test can be used to troubleshoot a damaged display.

1. At any time, press the Setup key
2. Press the Service soft key

Scale prompts you to enter in a password

3. Key-in the password (336699) and then press the ENT key

Scale displays the available menus on the soft key screen

4. Press the LCD Test soft key

Scale displays various characters on all four lines of the screen for about three seconds followed by a blank screen for about three seconds; sequence is repeated twice more before scale automatically reverts back to the Service screen

5. Press the CLR key to return to normal operating mode

How to perform Keyboard Test

The Keyboard Test can be used to troubleshoot an inoperative key.

1. At any time, press the Setup key

2. Press the Service soft key

Scale prompts you to enter in a password

3. Key-in the password (336699) and then press the ENT key

Scale displays the available menus on the soft key screen

4. Press the Key Test soft key

Press any key except CLR to see the keycode; see table below for the proper key-code

6. Press the CLR key to exit the test

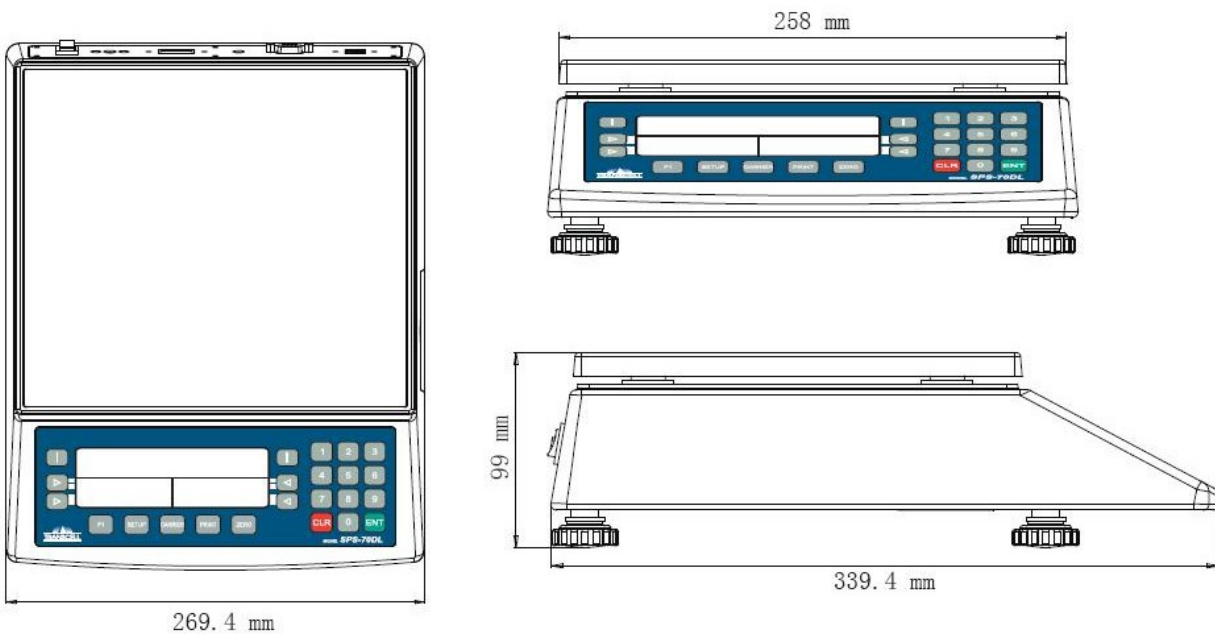
Scale reverts back to Service screen; press the CLR key to return to normal operating mode

Key	Keycode	Key	Keycode
Up Arrow	12	0	0
S1	14	1	1
S2	15	2	2
Down Arrow	13	3	3
S3	16	4	4
S4	17	5	5
F1	34	6	6
Setup	20	7	7
Carrier	21	8	8
Print	19	9	9
Zero	18	ENT	11

SPECIFICATIONS

Dimensions:	10.7 in. x 3.94 in. x 13.39 in. 269 mm x 99 mm x 339 mm
Capacity/Division:	0-4 lb x 0.1 oz, 4-70 lb x 0.5oz
Power Source:	12 VDC, 800 mA AC adapter
Operating Temp:	32 to 104°F (0 to 40°C)
Display:	20 x 4 alphanumeric LCD with LED backlight
Keys:	4 soft, 19 hard including 0-9 numeric
Platform Size:	10 in. x 9 in. (258 mm x 225 mm)
Ports:	1 x RS-232C & 1 x USB
Shipping Weight:	14.4 lbs (6.5 kg)
Net Weight:	11.5 lbs (5.2 kg)

PHYSICAL DIMENSIONS:



STANDARD RATES, SPECIAL SERVICES AND FUNCTIONS

USPS Primary Services – Domestic

First Class Mail – Retail Single Piece

- Letters & Cards
- Large Envelopes (Flats)
- Packages (Parcels)
- Postcards

Priority Mail - RETAIL

- LETTERS, LARGE ENVELOPES, & PARCELS
- Flat-rate Envelope
- Small Flat-rate Box
- Regular Flat-rate Box
- Large Flat-rate Box
- Balloon Price
- Dimensional Weight

Express Mail - RETAIL

- LETTERS, LARGE ENVELOPES , & PARCELS
- Flat-rate Envelope

Parcel Post – RETAIL

- Parcels
- Balloon price
- Oversized

Media Mail – RETAIL

Library Mail – RETAIL

Bound Printed Matter - Commercial

- FLATS—NONPRESORTED
- PARCELS—NONPRESORTED

First Class Mail – COMMERCIAL LETTERS & CARDS

- 5 Digit
- 3 Digit
- AADC
- Mixed AADC
- Presorted

First Class Mail – COMMERCIAL FLATS

- 5 Digit
- 3 Digit
- ADC
- Mixed ADC
- Presorted

First Class Mail – COMMERCIAL PARCELS

- 5 Digit
- 3 Digit
- ADC
- Single Piece

USPS Primary Services – International RETAIL

First Class Mail International – Retail

- Letters & Cards
- Large Envelopes (Flats)
- Packages (Parcels)
- Postcards

Priority Mail International - RETAIL

- LETTERS, LARGE ENVELOPES, & PARCELS
- Flat-rate Envelope
- Small Flat-rate Box
- Regular Flat-rate Box
- Large Flat-rate Box

Express Mail International - RETAIL

- LETTERS, LARGE ENVELOPES , & PARCELS
- Flat-rate Envelope

UPS Primary Services – Domestic

- Commercial UPS Next Day Air Early A.M. Letter/Package
- Residential UPS Next Day Air Early A.M. Letter/Package
- Commercial UPS Next Day Air Letter/Package
- Residential UPS Next Day Air Letter/Package
- Commercial UPS Next Day Air Saver Letter/Package
- Residential UPS Next Day Air Saver Letter/Package
- Commercial UPS 2nd Day Air A.M. Letter/Package
- Residential UPS 2nd Day Air A.M. Letter/Package
- Commercial UPS 2nd Day Air Letter/Package
- Residential UPS 2nd Day Air Letter/Package
- Commercial UPS 3 Day Select
- Residential UPS 3 Day Select
- Commercial UPS Ground
- Residential UPS Ground

FedEx Express Primary Services – Domestic

- Commercial FedEx First Overnight Letter/Package
- Residential FedEx First Overnight Letter/Package
- Commercial FedEx Priority Overnight Letter/Package
- Residential FedEx Priority Overnight Letter/Package
- Commercial FedEx Standard Overnight Letter/Package
- Residential FedEx Standard Overnight Letter/Package
- Commercial FedEx 2 Day Letter/Package
- Residential FedEx 2 Day Letter/Package
- Commercial FedEx Express Saver Letter/Package
- Residential FedEx Express Saver Letter/Package

Special Services

- Certified Mail
- Return Receipt
- Return Receipt For Merchandise
- Registered Mail
- Insurance (Declared Value)
- Collect on Delivery (COD)
- Delivery Confirmation
- Signature Confirmation
- Delivery Area Surcharge
- Sunday/Holiday Delivery (USPS)
- Saturday Delivery (UPS)
- Additional Handling

Functions

- Clear
- Enter
- ZIP Code Origin
- Piece Counting
- Hold Mode
- Manual Weight Entry
- Remote Scale
- Shortcuts
- Zero Scale

RATE AND SPECIAL SERVICE ABBREVIATIONS

RATE ABBREVIATIONS - USPS

Class of Mail	Displayed Text
Bound Printed Matter - Flats	BPM F
Bound Printed Matter - Parcels	BPM P
Express Mail Intl	INT EMI
Express Mail Intl Flat-rate Envelope	INT EMI E
Express Mail	EXP
Express Mail Flat-rate Envelope	EXP E
First Class Flat	1ST F
First Class Letter	1ST L
First Class Parcel	1ST P
First Class Postcard	1ST C
First Class Intl Flat	INT FCI F
First Class Intl Letter	INT FCI L
First Class Intl Parcel	INT FCI P
First Class Intl Postcard	INT FCI C
First Class 5-Digit Letter	AUT L 5DG
First Class 3-Digit Letter	AUT L 3DG
First Class AADC Letter	AUT L AAD
First Class Mixed AADC Letter	AUT L MIX
First Class Presorted Letter	AUT L PRE
First Class 5-Digit Flat	AUT F 5DG
First Class 3-Digit Flat	AUT F 3DG
First Class ADC Flat	AUT F ADC
First Class Mixed ADC Flat	AUT F MIX
First Class Presorted Flat	AUT F PRE
First Class 5-Digit Parcel	AUT P 5DG
First Class 3-Digit Parcel	AUT P 3DG
First Class ADC Parcel	AUT P ADC
Global Express Guaranteed	INT GXG
Library Mail	LIB
Media Mail	MED
Parcel Post	PP
Priority Mail	PRI
Priority Mail Flat-rate Small Box	PRI SB
Priority Mail Flat-rate Regular Box	PRI RB
Priority Mail Flat-rate Large Box	PRI LB
Priority Mail Flat-rate Envelope	PRI E
Priority Mail Intl	INT PMI
Priority Mail Intl Flat-rate Small Box	INT PMI SB
Priority Mail Intl Flat-rate Regular Box	INT PMI RB
Priority Mail Intl Flat-rate Large Box	INT PMI LB
Priority Mail Intl Flat-rate Envelope	INT PMI E

RATE ABBREVIATIONS - UPS

Class of Mail	Displayed Text
Commercial UPS Next Day Air Early A.M. Letter	NXT AM CL
Commercial UPS Next Day Air Early A.M. Package	NXT AM CP
Residential UPS Next Day Air Early A.M. Letter	NXT AM RL
Residential UPS Next Day Air Early A.M. Package	NXT AM RP
Commercial UPS Next Day Air Letter	NXT CL
Commercial UPS Next Day Air Package	NXT CP
Residential UPS Next Day Air Letter	NXT RL
Residential UPS Next Day Air Package	NXT RP
Commercial UPS Next Day Air Saver Letter	NXT SV CL
Commercial UPS Next Day Air Saver Package	NXT SV CP
Residential UPS Next Day Air Saver Letter	NXT SV RL
Residential UPS Next Day Air Saver Package	NXT SV RP
Commercial UPS 2nd Day Air A.M. Letter	2ND AM CL
Commercial UPS 2nd Day Air A.M. Package	2ND AM CP
Residential UPS 2nd Day Air A.M. Letter	2ND AM RL
Residential UPS 2nd Day Air A.M. Package	2ND AM RP
Commercial UPS 2nd Day Air Letter	2ND CL
Commercial UPS 2nd Day Air Package	2ND CP
Residential UPS 2nd Day Air Letter	2ND RL
Residential UPS 2nd Day Air Package	2ND RP
Commercial UPS 3 Day Select	3DY CP
Residential UPS 3 Day Select	3DY RP
Commercial UPS Ground	GND CP
Residential UPS Ground	GND RP

RATE ABBREVIATIONS – FedEx Express

Class of Mail	Displayed Text
Commercial FedEx First Overnight Letter	1ST CL
Commercial FedEx First Overnight Package	1ST CP
Residential FedEx First Overnight Letter	1ST RL
Residential FedEx First Overnight Package	1ST RP
Commercial FedEx Priority Overnight Letter	PRI CL
Commercial FedEx Priority Overnight Package	PRI CP
Residential FedEx Priority Overnight Letter	PRI RL
Residential FedEx Priority Overnight Package	PRI RP
Commercial FedEx Standard Overnight Letter	STD CL
Commercial FedEx Standard Overnight Package	STD CP
Residential FedEx Standard Overnight Letter	STD RL
Residential FedEx Standard Overnight Package	STD RP
Commercial FedEx 2 Day Letter	ECO CL
Commercial FedEx 2 Day Package	ECO CP
Residential FedEx 2 Day Letter	ECO RL
Residential FedEx 2 Day Package	ECO RP
Commercial FedEx Express Saver Letter	SAV CL
Commercial FedEx Express Saver Package	SAV CP
Residential FedEx Express Saver Letter	SAV RL
Residential FedEx Express Saver Package	SAV RP

SPECIAL SERVICES ABBREVIATIONS

Special Service	Displayed Text
Balloon Rate	BL
Certified	CT
COD	CO
Delivery Confirmation	DC
Dimensional Rate	DW
Insurance	IN
Registered (international)	RG
Registered (no insurance)	RG
Registered (w/insurance)	RG
Return Receipt	RR
Return Receipt for Merchandise	RM
Signature Confirmation	SC
Nonmachineable Surcharge (letters)	OV
Sunday/Holiday Surcharge	DS
Additional Handling	Ah
Saturday Delivery	Sd

COUNTRY CODE CHART

TRANSCELL USPS INTERNATIONAL COUNTRY CODE CHART

200 Afghanistan	250 Croatia	307 Kuwait	363 St. Helena
201 Albania	251 Cuba	308 Kyrgyzstan	364 St. Lucia
202 Algeria	252 Cyprus	309 Laos	365 St. Pierre & Mi- quelon
203 Andorra	253 Czech Republic	310 Latvia	366 St. Vincent & Grenadines
204 Angola	254 Denmark	311 Lebanon	367 San Marino
205 Anguilla	255 Djibouti	312 Lesotho	368 Sao Tome & Principe
206 Antigua & Bar- buda	256 Dominica	313 Liberia	369 Saudi Arabia
207 Argentina	257 Dominican Re- public	314 Libya	370 Senegal
208 Armenia	258 Ecuador	315 Liechtenstein	371 Serbia- Montenegro
209 Aruba	259 Egypt	316 Lithuania	372 Seychelles
210 Ascension	260 El Salvador	317 Luxembourg	373 Sierra Leone
211 Australia	261 Equatorial Guinea	318 Macao	374 Singapore
212 Austria	262 Eritrea	319 Macedonia	375 Slovak Republic
213 Azerbaijan	263 Estonia	320 Madagascar	376 Slovenia
214 Azores	264 Ethiopia	321 Madeira Island	377 Solomon Islands
215 Bahamas	265 Falkland Islands	322 Malawi	378 Somalia
216 Bahrain	266 Faroe Island	323 Malaysia	379 South Africa
217 Bangladesh	267 Fiji	324 Maldives	380 Spain
218 Barbados	268 Finland	325 Mali	381 Sri Lanka
219 Belarus	269 France, Monaco	326 Malta	382 Sudan
220 Belgium	270 French Guiana	327 Martinique	383 Suriname
221 Belize	271 French Polynesia	328 Mauritania	384 Swaziland
222 Benin	272 Gabon	329 Mauritius	385 Sweden
223 Bermuda	273 Gambia	330 Mexico	386 Switzerland
224 Bhutan	274 Rep. of Georgia	331 Moldova	387 Syrian Arab Re- public
225 Bolivia	275 Germany	332 Mongolia	388 Taiwan
226 Bos- nia-Herzegovina	276 Ghana	333 Montserrat	389 Nepal
227 Botswana	277 Gibraltar	334 Morocco	390 Tanzania
228 Brazil	278 Great Brit- ain/North Ireland	335 Mozambique	391 Thailand
229 British Virgin Is- lands	279 Greece	336 Namibia	392 Togo
230 Brunei Darussa- lam	280 Greenland	337 Nauru	393 Tonga
231 Bulgaria	281 Grenada	338 Nepal	394 Trinidad & To- bago
232 Burkina Faso	282 Guadeloupe	339 Netherlands	395 Tristan Da Cunha
233 Burma	283 Guatemala	340 Netherlands Antil- les	396 Tunisia
234 Burundi	284 Guinea	341 New Caledonia	397 Turkey
235 Cambodia	285 Guinea-Bissau	342 New Zealand	398 Turkmenistan
236 Cameroon	286 Guyana	343 Nicaragua	399 Turks & Caicos Islands
237 Canada	287 Haiti	344 Niger	400 Tuvalu
238 Cape Verde	288 Honduras	345 Nigeria	401 Uganda
239 Cayman Islands	289 Hong Kong	346 Norway	402 Ukraine
240 Central African Republic	290 Hungary	347 Oman	403 United Arab Emirate
241 Chad	291 Iceland	348 Pakistan	404 Uruguay
242 Chile	292 India	349 Panama	405 Uzbekistan
243 China	293 Indonesia	350 Papua New Guinea	406 Vanuatu
244 Colombia	294 Iran	351 Paraguay	407 Vatican City
245 Comoros	295 Iraq	352 Peru	408 Venezuela
246 Congo, Republic of	296 Ireland (Eire)	353 Philippines	409 Vietnam
413 Congo, Dem. Republic of	297 Israel	354 Pitcairn Island	410 Wallis & Futuna Islands
247 Corsica	298 Italy	355 Poland	411 Western Samoa
248 Costa Rica	299 Jamaica	356 Portugal	412 Yemen
249 Cote d'Ivoire (Ivory Coast)	300 Japan	357 Qatar	
	301 Jordan	358 Reunion	
	302 Kazakhstan	359 Romania	
	303 Kenya	360 Russia	
	304 Kiribati	361 Rwanda	
	305 Korea, North	362 St. Christopher & Nevis	
	306 Korea, South		

414 Zambia
415 Zimbabwe

COUNTRY NAME ABBREVIATIONS

<u>Country Name</u>	<u>Abbr.</u>	<u>Country Name</u>	<u>Abbr.</u>
Afghanistan	AFGHANIS	Cuba	CUBA
Albania	ALBANIA	Cyprus	CYPRUS
Algeria	ALGERIA	Czech Republic	CZECH RE
Andorra	ANDORRA	Denmark	DENMARK
Angola	ANGOLA	Djibouti	DJIBOUTI
Anguilla	ANGUILLA	Dominican Republic	DOM REP
Antigua & Barbuda	ANTIGUA	Dominica	DOMINICA
Argentina	ARGENTIN	Ecuador	ECUADOR
Armenia	ARMENIA	Egypt	EGYPT
Aruba	ARUBA	El Salvador	EL SALVA
Ascension	ASCENSIO	Equatorial Guinea	EQUATORI
Australia	AUSTRALI	Eritrea	ERITREA
Austria	AUSTRIA	Estonia	ESTONIA
Azerbaijan	AZERBAIJ	Ethiopia	ETHIOPIA
Azores	AZORES	Falkland Islands	FALKLAND
British Virgin Isles	VIRGIN I	Faroe Islands	FAROE IS
Bahamas	BAHAMAS	Fiji Islands	FIJI
Bahrain	BAHRAIN	Finland	FINLAND
Bangladesh	BANGLADE	France, Monaco	FRANCE
Barbados	BARBADOS	French Guiana	FRENCH G
Belarus	BELARUS	French Polynesia	FRENCH P
Belgium	BELGIUM	Gabon	GABON
Belize	BELIZE	Gambia	GAMBIA
Benin	BENIN	Republic of Georgia	GEORGIA
Bermuda	BERMUDA	Germany	GERMANY
Bhutan	BHUTAN	Ghana	GHANA
Bolivia	BOLIVIA	Gibraltar	GIBRALTA
Bosnia-Herzegovina	BOSNIA-H	Great Britain/North Ireland	GREAT BR
Botswana	BOTSWANA	Greece	GREECE
Brazil	BRAZIL	Greenland	GREENLAN
Brunei Darussalam	BRUNEI D	Grenada	GRENADA
Bulgaria	BULGARIA	Guadeloupe	GADELOU
Burkina Faso	BURKINA	Guatemala	GUATEMAL
Burma	BURMA	Guinea-Bissau	GUINEA-
Burundi	BURUNDI	Guinea	GUINEA
Central African Republic	CENT AFR	Guyana	GUYANA
Cambodia	CAMBODIA	Haiti	HAITI
Cameroon	CAMEROON	Honduras	HONDURAS
Canada	CANADA	Hong Kong	HONG KON
Cape Verde	CAPE VER	Hungary	HUNGARY
Cayman Islands	CAYMAN I	Iceland	ICELAND
Chad	CHAD	India	INDIA
Chile	CHILE	Indonesia	INDONESI
China	CHINA	Iran	IRAN
Colombia	COLOMBIA	Iraq	IRAQ
Comoros	COMOROS	Ireland (Erie)	IRELAND
Congo, Dem. Republic of	CONGO DE	Israel	ISRAEL
Congo, Republic of	CONGO RE	Italy	ITALY

Corsica	CORSICA	Ivory Coast	COTE D'L
Costa Rica	COSTA RI	Jamaica	JAMAICA
Croatia	CROATIA	Japan	JAPAN
Jordan	JORDAN	Philippines	PHILIPPI
Kazakhstan	KAZAKHST	Pitcairn Islands	PITCAIRN
Kenya	KENYA	Poland	POLAND
Kiribati	KIRIBATI	Portugal	PORTUGAL
Kuwait	KUWAIT	Qatar	QATAR
Kyrgyzstan	KYRGYZST	Reunion	REUNION
Laos	LAOS	Romania	ROMANIA
Latvia	LATVIA	Russia	RUSSIA
Lebanon	LEBANON	Rwanda	RWANDA
Lesotho	LESOTHO	South Africa	SOUTH AF
Liberia	LIBERIA	South Korea	KOREA RE
Libya	LIBYA	Sierra Leone	SIERRA L
Liechtenstein	LIECHTEN	San Marino	SAN MARI
Lithuania	LITHUANI	Sao Tomes & Principe	SAO TOME
Luxembourg	LUXEMBOU	Saudi Arabia	SAUDI AR
Macao	MACAO	Senegal	SENEGAL
Macedonia	MACEDONIA	Serbia-Montenegro	SERBIA-M
Madagascar	MADAGASC	Seychelles	SEYCHELL
Madeira Island	MADEIRA	Singapore	SINGAPOR
Malawi	MALAWI	Slovakia Republic	SLOVAK R
Malaysia	MALAYSIA	Slovenia	SLOVENIA
Maldives	MALDIVES	Solomon Islands	SOLOMON
Mali	MALI	Somalia	SOMALIA
Malta	MALTA	Spain	SPAIN
Martinique	MARTINIQ	Sri Lanka	SRI LANK
Mauritania	MAURITAN	St Christopher & Nevis	ST. CHRI
Mauritius	MAURITIU	St Lucia	SAINT LU
Mexico	MEXICO	St Pierre & Miquelon	SAINT PI
Moldova	MOLDOVA	St Helena	SAINT HE
Mongolia	MONGOLIA	St Vincent & Grenadines	SAINT VI
Montserrat	MONTSERR	Sudan	SUDAN
Morocco	MOROCCO	Suriname	SURINAME
Mozambique	MOZAMBIQ	Swaziland	SWAZILAN
North Korea	KOREA DE	Sweden	SWEDEN
Namibia	NAMIBIA	Switzerland	SWITZERL
Nauru	NAURU	Syrian Arab Republic	SYRIA
Nepal	NEPAL	Taiwan	TAIWAN
Netherlands Antilles	NET ANTI	Tajikistan	TAJIKIST
Netherlands	NETHERLA	Tanzania	TANZANIA
New Caledonia	NEW CALE	Thailand	THAILAND
New Zealand	NEW ZEAL	Togo	TOGO
Nicaragua	NICARAGU	Tonga	TONGA
Niger	NIGER	Trinidad & Tobago	TRINIDAD
Nigeria	NIGERIA	Tristan Da Cunha	TRISTAN
Norway	NORWAY	Turkmenistan	TURKMENI
Oman	OMAN	Tunisia	TUNISIA
Pakistan	PAKISTAN	Turkey	TURKEY
Panama	PANAMA	Turks & Caicos	TURKS &
Papua New Guinea	PAPUA NE	Tuvalu	TUVALU
Paraguay	PARAGUAY	Uganda	UGANDA
Peru	PERU	Ukraine	UKRAINE
United Arab Emirate	UNITED A	Vietnam	VIETNAM
Uruguay	URUGUAY	Wallis & Futuna Islands	WALLIS &
Uzbekistan	UZBEKIST	Western Samoa	W. SAMOA
Vanuatu	VANUATU	Yemen	YEMEN
Vatican City	VATICAN	Zambia	ZAMBIA
Venezuela	VENEZUEL	Zimbabwe	ZIMBABWE

RATE CHANGE INFORMATION

RATE UPDATES

Transcell updates carrier rate and structure changes. The rates and operating system reside on one Rate Card, which is removable from the scale for reprogramming purposes.

1. Turn the scale's power switch to the off position.
2. Remove the Rate Card cover from the right hand side of the scale.
3. Install the Rate Card in the scale with the component side of the module facing the top of the scale.

ERROR MESSAGES

ERROR MESSAGES

If the scale encounters an error condition, it will display a message alerting the operator. A description of each display follows:

OPERATOR ERRORS

Message	Explanation
<i>OverWt</i>	Indicates that the weight for the class of service selected has been exceeded
<i>UnderWt</i>	Indicates that the weight for the class of service selected is too light
<i>Weight Limit = 70 lbs</i>	Indicates that the weighing capacity of the scale has been exceeded
<i>Under Weight</i>	Indicates that the weight reading is less than zero
<i>Invalid Zip Code</i>	Indicates that an invalid ZIP code was entered
<i>Invalid Ctry Code</i>	Indicates that an invalid country code was entered
<i>Not Avl</i>	Indicates that the special service is not valid for the class of mail selected
<i>Combo</i>	Indicates that the special service is not valid with the current special service(s) selected.
<i>Over Lmt</i>	Indicates that the value entered for insurance, registered mail or COD is over the limit

Limited 12 month Warranty

This product is warranted by Transcell Technology against manufacturing defects in material and workmanship under normal use for twelve (12) months from the date of purchase. For complete warranty details and service information, please contact us at the address below.

Contents subject to change without notice.

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