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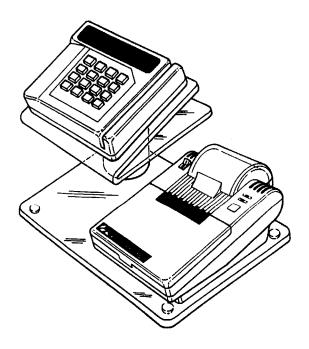
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TRANZ® 330

FDR ETC PLUS Retail Debit Reference Manual

Application Version FEPDBTx VeriFone Part Number 12455, Revision A Manual Revision 1.0





First Data Resources, Inc. TRANZ 330 ETC PLUS Retail Debit Reference Manual

VeriFone[®] Part Number 12455, Revision A Manual Revision 1.0

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TEL: (415) 591-6500

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1. Introduction	
Software Version	1-1
Roll/Slip Printer	1-1
PIN Pad	1-2
2. Features and Transactions Summary	
Features and Benefits	0.4
Terminal Transactions Summary	
Local or Terminal Functions Summary	
Local of Terminal Functions Summary	2-2
3. TRANZ 330 Terminal	
Unpacking	
Installing the TRANZ 330 Terminal	3-2
Terminal Hardware Features	3-3
The Display Panel	3-3
The Cardreader	3-3
The Keypad and Key Functions	3-4
Maintenance	
Service Warranty	3-6
Troubleshooting the TRANZ 330 Terminal	
TRANZ 330 Terminal Specifications	3-7
4. General Programming	
Entering the General Programming Mode	4-1
Review a Field	4-1
Change a field	4-1
Setting the Calendar/Clock	
"Emptying" a Field	4-2
Entering Alphabetic Characters	4-3
Copying or Downloading Data to Another Terminal	4-3
Fraud Control Programming	4-4
Eliminating "PROGRAMING ERROR"	
Offline DEMO Approvals	4-5

5. Programming the FDR TRANZ Terminal for Use	
Host Information (Code 1)	5-1
Account Range Tables (Code 2)	
Security Setup (Code 3)	
Update Password (Code 4)	
Options Setup (Code 5)	
Check Setup (Code 6)	
Printer Type (Code 7)	
Change Idle Prompt (Code 8)	
Clear Batch (Code 9)	
Card Type (Code 0)	
Memory Map of Important Locations	5-7
C Standard Vay Operations	
6. Standard Key Operations	
Credit Sale	
Debit Sale	
Credit Return	
Debit Return	
Auth Only	
Void	
Ticket Only	
Inquiry	
Check Guarantee	
Close Batch	6-14
7. Terminal Functions	
Item Review	7-1
Totals Review	
Print Options	
	т
R TRANZ 330 Accessories	

Appendix A. Printer 150	
Printer 150 Installation	A-1
Standard Model Printer 150	
Unpacking the Printer 150	
Setting the DIP Switches	
Installing the Printer 150	
Locating the Power Pack	A-5
Replacing the Ribbon Cassette	A-6
Running the Print Test	A-6
Cleaning	
Printer 150 Specifications	A-7
Printer 150 Accessories	A-7
Appendix B. Printer 250	
Introduction	B-1
Unpacking the Printer 250	
Setting the Internal DIP Switches	B-2
Installing the Printer 250	B-3
Power Connection	B-3
Terminal Connection	B-3
Installing or Replacing the Ribbon Cartridge	B-4
Installing the Paper Roll	B-4
Running the Print Test	B-5
Removing the Paper Roll	B-5
Cleaning	B-6
Printer 250 Specifications	B-€
Accessories	B-6
Appendix C. PIN Pad 101	
PIN Pad 101 Components	C-1
Display	C-1
Selecting a Location For the PIN Pad	C-2
Unpacking	C-2
Connecting the PIN Pad to the Terminal	C-2

Appendix C. PIN Pad 101 (cont'd)	
PIN Pad Mounting	
Wall Mounting	
Countertop Mounting	
PIN Pad 101 Startup	C-4
The Idle Prompt	C-4
Using the Keypad	
Maintenance	C-5
Cleaning	C-5
Returning the PIN Pad	C-5
Troubleshooting	C-5
Appendix D. Prompts and Error Message	ges
Appendix E. ZONTALK 2000 Download	Parameters
Glossary	
Index	

1. Introduction

Congratulations on your choice of the VeriFone TRANZ 330 electronic ticket capture terminal. The TRANZ 330 terminal has many outstanding features that will enable you and your merchants to perform your tasks faster and easier.

Please take the time to read this manual carefully so you become familiar with the equipment and procedures you will need to know to perform functions and transactions on your terminal. You will be pleased to know that this retail application is similar to the existing TRANZ 330 retail application (FEPRETx) with the addition of debit functionality.

Software Version

The FDR application software package will load only in TRANZ 330 terminals having operating system software 2.10 and higher. To determine the software version your terminal contains, unplug the power cord, then plug it in again. The terminal's display will show you the current software version installed. This reference manual is for application version FEPDBTx (or higher).

Roll/Slip Printer

The FDR TRANZ 330 terminal supports the Printer 150 slip printer and Printer 250 roll printer. The printers attach to the unit with a connecting cable, and plug into a standard 115 VAC outlet. Both terminal and printer can be housed in an optional clear acrylic convenience stacker that minimizes counter space requirements. Figure 1-1 illustrates the Printer 150 and the TRANZ 330 terminal with the Printer 250 installed in a convenience stacker.

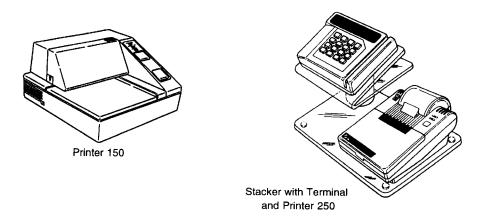


Figure 1-1. Printers, Acrylic Stacker, and the TRANZ 330 Terminal

PIN Pad

The TRANZ 330 terminal also supports the PIN Pad 101 for Debit transactions that require customer entry of Personal Identification Numbers (PINs) to verify transaction amounts and totals. The PIN Pad 101 attaches easily to the terminal's rear panel. See Appendix C. PIN Pad 101 for installation instructions and operating procedures.

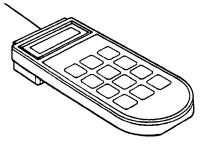


Figure 1-2. PIN Pad 101

2. Features and Transactions Summary

Features and Benefits

New features provided in this debit application are included in the following list.

- ★ This application provides the option of performing credit or debit transactions.
- ★ The TRANZ 330 terminal supports the PIN Pad 101 for debit transactions.
- ★ This application version is designed for a Track 2 terminal only.
- · You can choose either a slip or roll printer.
- The Setup function for terminal options includes 4 prompt selections: Invoice number, Operator ID, Phone Order and Automatic report printing.
- Current settings are displayed at each setup prompt.
- While reviewing a transaction, the Item Review function allows you to void, edit and print each transaction.
- You can print terminal totals by card type and detail reports by item number
- All captured transactions are numbered for buffer review.
- The idle prompt includes the total number of spaces left for transaction storage in the current batch.
- The prompt for entry of the card account number indicates the item number for that transaction.
- You can customize up to 6 merchant header lines for receipts and reports, as well as 4 flexible customer agreement lines and 2 flexible message lines.
- The abbreviated record display, as well as the full buffer review, includes code letters indicating transaction type: S = Sale, R = Return, VS = Void Sale, VR = Void Return, etc.
- · Card ranging now includes the option for the Retail Terms prompt.
- · The application now performs expiration date checking for expired cards.
- A setup option allows you to customize the idle prompt.
- The application is automatically programmed to work in a Track 2 TRANZ 330 terminal upon initial download.
- · The application has re-designed receipt and report formats.

Terminal Transactions Summary	Key No.	Key Name	Explanation
	1	SALE	Obtains purchase authorization
	2	RETURN	Used to authorize a return/credit
	3	AUTH ONLY	Used to authorize a transaction without ticket capture
	4	VOID	Voids any host-captured transaction
	5	TKT ONLY	Used to process ETC transactions
	6	INQUIRY	Used to check previous business day's deposits
	8	CHECK	Check Guarantee Service
	9	CLOSE	Close the terminal batch
Local or Terminal Functions Summary	Key S	equence	Explanation
	BLUE	KEY + 1	Item Review of captured tickets
	BLUE	KEY + 2	Terminal Totals
		KEY + 4 + (code)	Set-Up functions: Code 1 = Host Information (for telephone numbers, terminal IDs) Code 2 = Card Range Information Code 3 = Set Security Flags Code 4 = Update Manager Password Code 5 = Application Options Code 6 = Check Guarantee Code 7 = Printer Type Code 8 = Change Idle Prompt Code 9 = Clear Batch Code 0 = Card Type
		KEY + 5	Print (item, totals and reprint)
	BLUE	KEY + 6	Display current time

3. TRANZ 330 Terminal

Congratulations on your decision to use the TRANZ 330 transaction terminal (see figure 3-1). The TRANZ 330 terminal is a transaction device, ideal for point-of-sale applications. Its unique design and flexibility allow it to adapt to meet the needs of the dynamic financial and POS industries.

We are confident that you will feel comfortable with your TRANZ 330 terminal once you begin to use it and become familiar with its many capabilities. This manual will explain how to unpack and install your terminal and verify that it is working properly. It will lead you step-by-step through specific transactions and operations, and teach you to maintain your unit to keep it in peak operating condition.

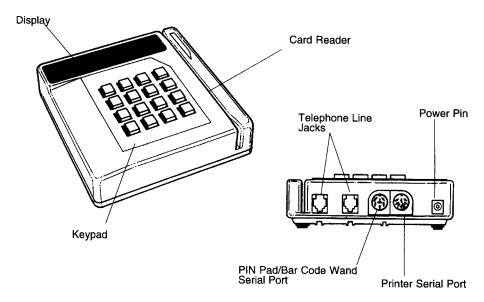


Figure 3-1. TRANZ 330 Terminal

Unpacking

Carefully inspect the shipping carton and its contents for damage that occurred during shipping. If the terminal is damaged, immediately file a claim with the shipping company or carrier and notify VeriFone, Inc. Do not use the damaged terminal.

To unpack the TRANZ 330 terminal:

- 1. With the shipping carton right side up, open the carton's lid and remove the top protective foam piece.
- 2. Lift the TRANZ 330 terminal, its power transformer and line cord with modular plugs up and out of the box.

- 3. Place the top protective foam piece back into the shipping carton and close the lid. Save the shipping materials for repacking the terminal when moving or shipping it.
- 4. Remove the protective plastic wrapping from the terminal and place the unit on a desk or table top. When choosing a place for your TRANZ 330 terminal, avoid areas with:
 - direct sunlight or objects that radiate heat,
 - excessive dust,
 - electrical "noise" or devices that cause excessive voltage variations such as air conditioners, fans, or high-frequency security devices.

Installing the TRANZ 330 Terminal

Installing the TRANZ 330 terminal is simple and requires no tools.

- 1. Connect the power transformer's circular connector to the power plug at the rear of the terminal.
- 2. Plug the power transformer's AC connector into a 120VAC ground-protected wall outlet.

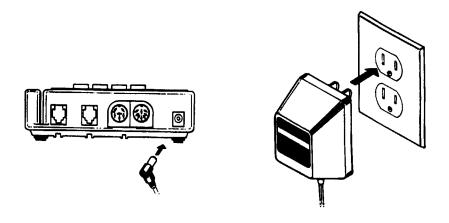


Figure 3-2. Power Transformer Connection

3. Connect one end of the line cord to one of the modular jacks at the rear of the terminal. Connect the line cord's other end to a telephone modular wall jack. As figure 3-3 illustrates, either directly insert the modular plug into the wall jack, or use a 4-prong adapter for 4-prong receptacles.

Note: You may connect a standard telephone or handset to the other modular jack at the rear of the terminal.

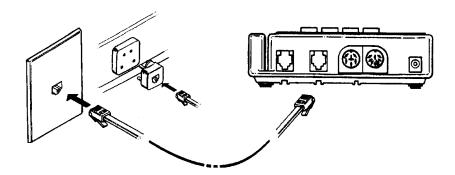


Figure 3-3. Modular Jack and 4-Prong Adapter

- If your system uses the Printer 150 or 250, see Appendices A or B for installation instructions, operational procedures, and sample printed receipts and reports.
- 5. Upon receiving power the terminal will display "FEPDBTx (x = the application version) to identify the software application.

Terminal Hardware Features

The TRANZ 330 terminal hardware features you will be most concerned with are the display panel, the cardreader, and the keypad.

The Display Panel

Each TRANZ 330 terminal has a built-in display panel capable of displaying up to 16 fully-formed alpha and numeric characters at a time. The bright fluorescent characters and plastic screen enhance readability while reducing glare. The 16-character display easily accommodates most system prompts. The TRANZ 330 terminal also supports a scrolling feature that allows you to read prompts or messages longer than 16 characters.



Figure 3-4. Display

The Cardreader

VeriFone equips the TRANZ 330 terminal with an ABA (American Bankers Association) track 1 or track 2 magnetic cardreader, enabling the terminal to read the magnetic stripe on all major credit and bank cards. The cardreader (see figure 3-5) reads a card's magnetic stripe which contains magnetically stored information.

Note: When sliding the card, face the magnetic stripe away from the keypad.



Figure 3-5. Cardreader

The Keypad

You communicate with the TRANZ 330 terminal and initiate specific transactions via the terminal's keypad (figure 3-6). The keypad allows you to select a specific type of transaction, enter data required for the transaction or enter data required to reprogram the terminal.

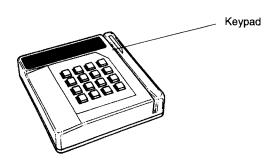


Figure 3-6. Keypad

Keypad and Key Functions

As figure 3-7 illustrates, your TRANZ 330 terminal keypad has 16 keys that can select number or alphabet values, initiate specific functions, or allow data entry, depending on when you use them.

Numbered keys can enter numeric values when used in the transaction mode. During transactions, you can use the number keys to respond to prompts or to enter numeric data.

To use the local function mode, press the [FUNC/ENTER] key followed by the desired function.

To use the keys for alphabet entry, you must first press a numbered key, then press the [ALPHA] key to select an alphabet value. For example, if you want to type the letter "A" you would first press the [2] key, then press the [ALPHA] key.

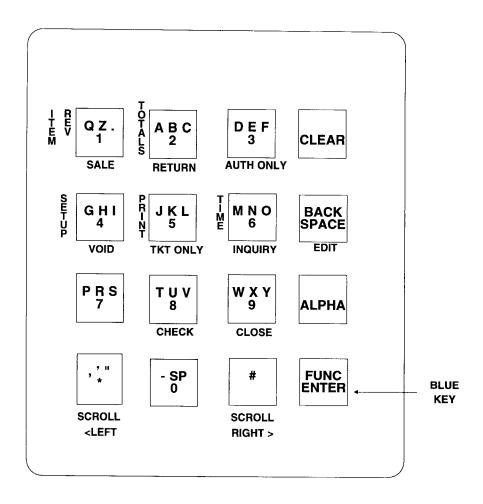


Figure 3-7. FDR ETC PLUS Retail Debit Standard Faceplate Inset

FDR Keypad Overlay

This is the keypad overlay for the FDR ETC PLUS Retail Debit application, VeriFone part number 00222-381. Please contact your VeriFone representative for ordering information.

Note: Not all labels will appear on the overlay.

Maintenance

CAUTION: To avoid electrical shock and possible damage to the TRANZ 330 terminal, do not allow liquids to enter the terminal's case.

Your TRANZ 330 system does not require preventive maintenance. However, VeriFone does recommend periodically cleaning the keypad using a soft paint brush to remove dust.

Service Warranty

VeriFone provides both warranty and non-warranty TRANZ 330 terminal services. Refer to your sales or purchase agreement for specific details on your coverage.

Troubleshooting the TRANZ 330 Terminal

The TRANZ 330 Terminal Troubleshooting Guide lists several common problems and the recommended corrective action. If a problem persists, contact your help desk, or call the VFI Customer Support Hotline at 1-800-654-1674.

TRANZ 330 Terminal Troubleshooting Guide

Problem

TRANZ 330 doesn't display the "READY" prompt or any other prompt.

Corrective Action

Verify that the power cord plugs into a working, ground protected outlet. If no response is received, unplug the TRANZ 330 terminal's power cord and plug another appliance into the outlet.

If the second appliance doesn't work, the power outlet is faulty. If the appliance works, go to the next step.

Verify that the power cord plugs firmly into the socket at the rear of the terminal. Connect the power cord from another TRANZ 330 to the suspect terminal; if the terminal works, your original power cord and power pack are faulty.

TRANZ 330 unable to complete a transaction. Instead display reads "DIALING," "REDIALING," or "NO COMM W/HOST."

Call the host computer telephone number using a standard telephone. Listen for the modem tone; you should hear it within three seconds of connecting.

If you do not hear the tone, or a person answers, you get a constant busy signal or there is no answer, you may have an invalid number. Check the host phone numbers.

Call your host computer representative to see if there is a problem with the host. Ensure you have the correct dial type. Check memory location 010; you should have a "0" for tone or a "1" for pulse dialing.

TRANZ 330 Terminal Specifications

Keypad 16 key alphanumeric keypad

Audio feedback tone (short tone for legal key entry,

longer tone for illegal key entry)

Display 16 character, fully-formed alpha and numeric display

Bright fluorescent

Single key scrolling capability

Communications Transmits asynchronous, full duplex--internal Bell 103 modem

300/1200 bps on dial operation Bell (US) modem operation

Allows expansion of transmit and receive buffers as required

Cardreader Reads American Banking Association standard Track 1 or Track 2 encoded

data

Displays magnetic stripe data if desired

Dimensions and Weight Height: 1.5 in (38.1 mm)

Width: 5.6 in (143.1 mm)
Depth: 6.0 in (152.40 mm)
Shipping Weight: 2.2 lbs (1.0 kg)

4. General Programming

The TRANZ 330 terminal will allow you to:

- · review a field,
- · move to another field,
- change it if necessary,
- display your new programmed data.

Entering the General Programming Mode

To enter the general programming mode, press BLUE + 7. The display will be:

RECALL WHAT?

Review a Field

To review the contents of a specific field, enter the field number you wish to review, then press [ENTER]. For example, if you entered 100, you would see a message similar to the following:

100 = 18002289074

To review the contents of another specific field, enter the memory location number, then press [ENTER].

To quickly move to adjacent fields, press [ENTER] to go to the next field (or keep pressing the key to move through several fields) or press [ALPHA] to go back to the previous field.

Change a field

To program or change a field, press BLUE + 7.

Display	Response
RECALL WHAT?	100
100=18002289074	Press [BACKSPACE]
ENTER PASSWORD*	Note: The programming password for the TRANZ 330 is "Z66831".
	Key in "1[ALPHA] [ALPHA] 66831", press [ENTER]*.
100=	Key in new data, press [ENTER].

^{*}Perform this step only once. The terminal will remain unlocked and not require a password entry until you press both the [CLEAR] and a function key or you remove the power cord from the terminal.

Note: FDR TRANZ software has been designed with ten unique Set-Up codes: BLUE + 4 + codes 0 through 9. You should always use the Set-Up functions to enter data in the various fields. Use this alternate programming procedure only for entering data in other unique fields such as fraud control.

Setting the Calendar/Clock

You can set the calendar/clock after unpacking your new TRANZ 330 terminal. The calendar/clock will not copy when you perform a terminal-to-terminal application copy.

To set the clock, simultaneously press the [*] and [3] keys. Release both keys. The display will show:

Display	Response
DIAGNOSTICS	Press the [ALPHA] key.
RTC CHIP TEST	Respond to each prompt that follows.
DAY OF WEEK =	Enter a number (1 - 7) representing the day of the week, then press [ENTER].
	Sunday = 7, Monday = 1, Tuesday = 2, etc.
YEAR = 19	Enter a 2-digit number (88 or 89, etc.), then press [ENTER].
MONTH =	Enter a number (1 - 12) representing the month, then press [ENTER]. January = 1 February = 2 March = 3, etc.
DATE =	Enter the day of the month, then press [ENTER]. You can enter "2" or "02" for February 2nd.
HOUR =	Enter the hour of the day, then press [ENTER]. Enter "3" for 3 A.M. or P.M.
AM = 0 PM = 1	Enter "0" or "1", then press [ENTER].
MINUTES =	Enter the minutes past the hour (1 - 59), then press [ENTER].
SECONDS =	You may bypass this prompt and press the [ENTER] key.

Note: If you press the [CLEAR] key at any time before you complete this function, the terminal will not accept any of the data you entered and will default to a "zero out" date and time.

"Emptying" a Field

You can easily delete data previously entered in a field in the TRANZ terminal.

- 1. Press [CLEAR], [BLUE] and [7].
- 2. Key in the field you wish to delete. The terminal will display the contents already stored in that field.
- 3. Press [BACKSPACE].
- 4. Key in "1 [ALPHA] [ALPHA] 66831" and press [ENTER].

- 5. Press [ENTER] again.
- 6. The terminal will display that field again as <EMPTY>.

Entering Alphabetic Characters

Twelve of the terminal's sixteen keys can be used to enter alphanumeric characters. These characters are the letters A through Z, the numerals 0 through 9, and the following special characters: *,' " - . #:: @ and [space].

Press the key containing the desired character, then press [ALPHA] as many times as required to display the correct character.

Note: The terminal must be in a mode that allows data entry, such as the STORE or RECALL modes, before information can be entered from the keypad. Transaction codes which require entry of alpha characters are an exception to this rule.

The following examples demonstrate how the characters 2, A, B, and C are entered using the [2] key and the [ALPHA] key.

Desired Character	Keys to Press	
2	Press the [2] key	
Α	Press the [2] key Press the [ALPHA] key once	
В	Press the [2] key Press the [ALPHA] key twice.	
С	Press the [2] key. Press the [ALPHA] key three times.	

Copying or Downloading Data to Another Terminal

Downloading is the process of copying data from one computer or terminal to another. VeriFone supports direct downloading which lets you quickly copy an application from one terminal to another, using the proper download cable.

Note: The TRANZ download cable, P/N 00490-00, will copy both TRANZ and XL terminals.

Follow these steps to perform a terminal-to-terminal download.

- 1. Plug both terminals into a 120 VAC power outlet.
- 2. Connect the download cable to the round 8-pin connector on the backs of both terminals. This is the same connector used for the printer.
- 3. Press [BLUE] + [*] on the sending terminal. Display will show:

UNIT SEND

4. Press [BLUE] + [#] on the receiving terminal. The display will show:

UNIT RECEIVE

Note: Steps 3 and 4 can be done in either order.

If the transfer is OK, the terminals will display "UNIT SENDING" and "UNIT RECEIVING".

Note: If the displays do not change to UNIT SENDING and UNIT RECEIVING, you may be using an XL only download cable.

- 6. Wait approximately twenty-three seconds and DO NOT TOUCH ANY KEY.
- 7. When copying is completed, both displays will read "SUCCESSFUL".

Fraud Control Programming

You can help control credit card fraud at the merchant location several ways using a TRANZ 330 terminal.

- Require the clerk to key in the last four digits of the embossed card number after sliding the card through the cardreader. The terminal compares data read off the card's magnetic stripe with data entered on the keypad.
- Check the contents of the card's magnetic stripe on the terminal display after sliding it through the card reader.
- Program your terminal for both features.

Program field X06 (X = key number) for each card you want to have these features enabled.

For example, if you are using the FDR TRANZ application and want FRAUD CONTROL on your Sale and Return keys, program fields 106 and 206 (keys 1 and 2).

Field	Entry
X06 (X = key number)	Enter 0, 1, 2, or 3, then press [ENTER].
	0 = None 1 = Enter last 4 digits 2 = Display Mag Stripe 3 = Options 1 and 2

Eliminating "PROGRAMING ERROR"

If your terminal displays a "PROGRAMING ERROR" message, you have two options to attempt recovery:

 Press the [3] and [5] keys simultaneously. The TRANZ 330 will re-calculate the check sum digit that may be the cause of the "PROGRAMING ERROR". You will not have to re-load the application.

Note: This is a new feature beginning with TRANZ Operating System version 2.10.

 Simultaneously press the [1] and BLUE keys until the calendar/clock re-appears on the display. Your terminal must now be "re-loaded" with the application. Follow the procedures for downloading from one terminal to another on page 4-3 or call the VeriFone Customer Support Help Desk for a telephone download.

Offline DEMO Approvals

To demonstrate how quick and easy it is to use a TRANZ 330 terminal, run a DEMO approval without using a telephone line.

Simultaneously press the [*] and [3] keys. The display will show "DIAGNOSTICS". Release these two keys and press the [9] key.

You can then slide any credit card through the card reader or key in the number and expiration date and any dollar amount. The terminal will simulate dialing and connecting, and will respond with a DEMO approval code!

5. Programming the FDR TRANZ Terminal for Use

Check memory location 019 to ensure your terminal is loaded with the correct software version before you begin programming. Press BLUE + 7 + 019. The terminal should display " 019 = FEPDBTx" where "x" = current application version. If memory location 019 contains data other than this, please contact your VeriFone representative.

To prepare your terminal for use, you must enter the Set Up function key sequence (BLUE + 4) and codes 0 through 9 for the selected Set Up.

1 = Host Setup6 = Check Setup2 = Account Range Tables7 = Printer Type3 = Security Setup8 = Change Idle Prompt4 = Password Setup9 = Clear Batch5 = Terminal Options0 = Card Type Label

Note: This application displays current data for verification or change.

Host Information (Code 1)

Use this function to store the FDR ETC PLUS host telephone numbers and merchant IDs. The Merchant ID should be programmed without a prefix.

To enter the Set-Up mode:

- 1. Press BLUE + 4.
- 2. Key in the manager password.
- 3. Press the BLUE enter key.
- 4. Press Code 1.

Note: You may press the [ENTER] key to bypass any field and not disturb what has already been programmed. If something is already programmed and you wish to make a change, you must first press [BACKSPACE], then key in the new data.

Display	Response
HOST INFO PRIMARY PHONE? SECOND PHONE? CLOSE PHONE? MERCH ID?	FDR Host primary and secondary phone numbers and merchant ID number. If you need to dial "9" first, then pause, enter "9-XXXXXXX". Each "-" causes a 2-second delay in dialing.
	If this is an FDR "public port" number, you must add "LØ" or "XØ at the end of the telephone number. For example, if the local "public port" number is 123-4567, you must key in "1234567LØ" or "1234567XØ".

Account Range Tables (Code 2)

Use this function to program the card types your terminal will accept. To enter the Account Range Set-Up mode:

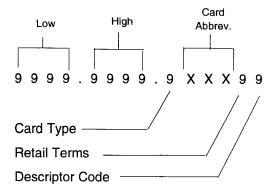
- 1. Press BLUE + 4.
- 2. Key in the manager password.
- 3. Press the BLUE enter key.
- 4. Press code 2.

Note: You may scroll past fields you wish to leave unchanged unless the terminal prevents you, in which case you must enter a value.

You can change/modify one item in a card account range provided you scroll past all remaining prompts in the card range.

Display	Response
CARD RANGE INFO ACCT RANGE ITEM?	Enter a digit 1 - 9. The number you enter here determines the field between 043 and 051 in which the card range will be stored. If you enter "1", the entire account range will be stored in field 043.
n-LOW?	Enter the first 4 digits of the low range of the credit card account number, then press [ENTER]. For example, the low account number range for VISA is 4000.
n-HIGH?	Enter the first 4 digits of the high range of the credit card account number, then press [ENTER]. For example, the high account number range for VISA is 4999.
n-CARD TYPE ?	Enter the card type, 1-6, then press [ENTER]. For example: 1 = VISA or MasterCard 2 = American Express or Diner's Club 3 = Discover etc.
	Note: The application uses this information to generate reports by card type.
n-CARD ABBREV?	Enter the card abbreviation, then press [ENTER]. (VIS = VISA, MC = MasterCard, etc.)
n-TERMS? Y/N	Select "Y" for Retail Terms prompting, or "N" for no prompt.
n-DES CODE 0/2/4	Select "0" for no Descriptor Code prompting, or "2" or "4" to allow 2- or 4-digit Descriptor Codes.

Normal Entries for All Card Types



Acct Range #1 (043) = 4000.4999.1VIS00 Acct Range #2 (044) = 5000.5999.2MC 00 Acct Range #3 (045) = 3400.3799.3AMX00 Acct Range #4 (046) = 3000.3899.4DC 00 Acct Range #5 (047) = 6011.6011.5DIS00 Acct Range #6 (048) = 0000.0999.6FDR00 Acct Range #7 (049) - #9 (051) =<empty>

Note: The "." after the low and high fields are required to make the account ranging work properly.

Security Setup (Code 3)

Use this function to set password protection for each individual terminal transaction or function. To enter the security setup mode:

- 1. Press BLUE + 4.
- 2. Key in the manager password.
- 3. Press the BLUE enter key.
- 4. Press code 3.

Display	Response
SECURITY	Enter [Y] to set password protection for a
SET SALE? Y/N	transaction, or [N] if you do not wish to
SET RETURN? Y/N	password protect the transaction. Press
SET AUTH? Y/N	keys [9] and [6] for "Y" and "N" responses.
SET VOID? Y/N	, , , , , , , , , , , , , , , , , , , ,
SET TICKET? Y/N	To access protected functions, the operator
SET DEP INQ? Y/N	must enter the manager password.
SET CLOSE? Y/N	3 · p · · · · · · · ·
SET ITM REV? Y/N	
SET TOT REV? Y/N	
SET SETUP? Y/N	
SET PRINT?Y/N	

Update Password (Code 4)

Use this function to update the manager password. To enter the "Update Password" mode:

- 1. Press BLUE + 4.
- 2. Key in the manager password.
- 3. Press the BLUE enter key.
- 4. Press code 4.

Display	Response
UPDATE PASSWD ENTER NEW PASSWD VERIFY NEW PASSW	Enter the new manager password. Enter the password a second time to verify. If both entries match, the terminal displays "PASSWORD UPDATED"

Options Setup (Code 5)

Use this function to set terminal options. To enter the options mode:

- 1. Press BLUE + 4.
- 2. Key in the manager password.
- 3. Press the BLUE enter key.
- 4. Press code 5.

Display	Response
OPTIONS DEVICE ID?	Press [BACKSPACE], enter a 4-character operator ID if there is one, then press [ENTER]. Press [ENTER] to bypass this prompt or press [BACKSPACE] then [ENTER] to leave this field blank.
INVOICE #? Y/N	Select "Y" if you wish to be prompted for entry of the invoice number, or "N" for no prompting.
OPERATOR ID? Y/N	Select "Y" if you wish the terminal to prompt for entry of an operator ID, or "N" for no prompting.
PHONE ORDER? Y/N	Select "Y" if you wish to be prompted for Phone Orders, or "N" for no prompt.
PREPRINT? Y/N	Select "Y" if you are using a roll printer and wish the receipt header to print before the terminal dials, or "N" for no preprinting.
RECEIPT? Y/N	Select "Y" if you wish the printer to automatically print receipts for all transactions, or "N" for no receipt printing.
AUTO REPORT? Y/N	Select "Y" if you wish the printer to automatically print the Detail and Terminal Totals reports at Batch Close.
AUTO INSERT? Y/N	Select "Y" if you wish the terminal to automatically insert current batch totals during a batch close, or "N" for manual entry of totals
DEBIT? Y/N	Select "Y" to enable Debit functionality.

Check Setup (Code 6)

Use this function to enter phone numbers for the check guarantee service. To enter the check setup mode:

- 1. Press BLUE + 4.
- 2. Key in the manager password.
- 3. Press the BLUE enter key.
- 4. Press code 6.

Display	Response
CHECK SELECTION PRIMARY PHONE? SECOND PHONE? MERCH ID?	Enter the primary, secondary phone numbers, and merchant ID number for the check service, pressing [ENTER] after each entry.

Printer Type (Code 7)

Use this function to identify the type of printer you will be using. To enter the printer setup mode:

- 1. Press BLUE + 4.
- 2. Key in the manager password.
- 3. Press the BLUE enter key.
- 4. Press code 7.

Display	Response
PRINTER SELECT PRINTER? Y/N	This prompt appears if there is anything stored in memory location 950. Press [6] for "N" to remove the printer and return to the "ENTER SETUP CODE" prompt or press [9] for "Y" to continue.
ROLL=2 SLIP=3	Press [2] to select the roll Printer 250 or [3] to select the slip Printer 150, then press [ENTER]. <i>Note: You must enter either a "2" or "3"</i> .
MERCHANT LOGO LINE 1? I LINE 6?	Enter the merchant name and address using up to 26 characters per line and up to 6 lines of information. If data is already present, press [BACKSPACE], enter the information, and press [ENTER], or [BACK-SPACE] and [ENTER] to leave the field empty. If no data is present, key in data and press [ENTER].

Note: The following FLEX prompts apply only to the roll printer.

FLEX AGREEMENT LINE 1? LINE 4?	Enter up to 4 flexible agreement lines using up to 39 alphanumeric characters per line. If data is already present, press [BACK-SPACE], enter the agreement information, then press [ENTER], or press [BACK-SPACE] and [ENTER] to leave this field empty. If no data is present, key in data and
	press [ENTER].

Display	Response
FLEX MESSAGE LINE 1? LINE 2?	Enter up to 2 flexible message lines, using up to 40 characters per line. If data is already present, press [BACKSPACE], enter the message line, then press [ENTER], or press [BACKSPACE] and [ENTER] to leave this field empty. If no data is present, key in data and press [ENTER].
	Note: Printer 150 switch settings for this application require switches 1 - 8 be set to ON, and switches 9 and 10 set to OFF. The Veri-Fone printer cable part number is 10465-XX.

Change Idle Prompt (Code 8)

Use this function to program your terminal to display a custom prompt. To enter the Change Idle Prompt setup mode:

- 1. Press BLUE + 4.
- 2. Key in the manager password.
- 3. Press the BLUE enter key.
- 4. Press code 8.

Display	Response
IDLE PROMPT	Press [BACKSPACE] and enter up to 16 alphanumeric characters, then press [ENTER], or press [BACKSPACE], then [ENTER] to
	use the default idle prompt "READY **nnn**.

Clear Batch (Code 9)

Use this function to clear the entire terminal buffer. To enter the Clear Batch mode:

- 1. Press BLUE + 4.
- 2. Key in the manager password.
- 3. Press the BLUE enter key.
- 4. Press code 9.

Display	Response
CLEAR BATCH	
CLEAR? Y/N	Enter [9] for "Y" to continue, or [6] for "N" to return to the ENTER SETUP CODE prompt.
ENTER TO CONFIRM	Press the [ENTER] key. The terminal clears the batch and returns to the setup code prompt.

5. Programming the FDR TRANZ Terminal for Use

Card Type (Code 0)

Use this function to clear the entire terminal buffer. To enter the Clear Batch mode:

- 1. Press BLUE + 4.
- 2. Key in the manager password.
- 3. Press the BLUE enter key.
- 4. Press code 0.

Display	Response
ACCUMULATOR NAME ENTER CARD TYPE	Enter a number 1. Cite called the
LIVIER OARD TIPE	Enter a number 1 - 6 to select the accumulator number (card type) to name.
<accumulator name=""></accumulator>	Enter the accumulator name, up to 8 characters, then press [ENTER].

Memory Map of Important Locations

You can review your programming of the FDR TRANZ terminal by pressing BLUE + 7, then keying in the desired field. See section 4, General Programming, for procedures to follow if you wish to review or change selected fields. Refer to *Appendix E: ZONTALK 2000TM Download Parameters*, for specific download information pertaining to this application.

6. Standard Key Operations

Retail transactions are common, unprotected transactions that all personnel can perform. These transactions include sale and check authorization, return/credit, void, ticket only, inquiry, close batch and debit transactions.

The FDR TRANZ 330 terminal idle prompt, "nnn" indicates spaces left for storage of transactions. For example, READY **3** indicates there is space to store 3 more transactions in the current batch. When the file is full, the idle display will show "BATCH FULL" and no further transactions will be stored until you close the batch and clear the file from the terminal.

Note: Displays that appear during terminal communications with the host may differ depending upon the selected protocol and logon.

Credit Sale

Follow these procedures to capture a credit sale transaction that requires host authorization.

Dis	splay	Response
1.	READY **nnn** SALE	Press the [1] key labeled SALE.
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The display will echo each keypress with an asterisk.

3.	itm ENTER ACCT #	Enter the account number via the keypad, then press [ENTER] and continue with step 5, or slide the card through the cardreader. If entry is made via the cardreader, continue with step 4.
		Note: "itm" is the item number for this transaction.
4.	CREDIT=0 DEBIT=1	This prompt is displayed only if Debit is enabled in Setup. Select "0" for a Credit Sale transaction, then press [ENTER].
5.	EXPIRY DATE MMYY	Enter the four-digit expiration date using two-digits each for month and year, then press [ENTER].
	PROCESSING	

Display	Response		
Note: The following prompts not appear, depending upon	Note: The following prompts in step 6 and steps 8 through 11 may or may not appear, depending upon options selected in setup.		
6. OPERATOR ID	Enter the 2-digit operator ID number, then press [ENTER].		
7. AMOUNT OF SALE ?	Enter the amount of the sale without the decimal, then press [ENTER].		
8. RETAIL TERMS	Enter the retail terms, up to 4 digits, then press [ENTER].		
9. PHONE ORDER? Y/N	Enter [9] for "Y" if this is a phone order, or [6] for "N" if it is not, then press [ENTER]. Press [ENTER] to bypass for no Phone Order.		
10. DESC CODE	Enter the descriptor codes, up to 4 sets, then press [ENTER].		
11. ENTER INVOICE #	Enter the invoice # up to 8 digits, then press [ENTER].		
PROCESSING			
12. WAITING FOR ANSR CONNECTED TRANSMITTING RECEIVING	Wait - the terminal is communicating with the host computer.		
13. <host message=""></host>	The terminal displays the host response. Record the approval number. If the transaction is disapproved, you should take necessary action. Press [CLEAR] to return to the idle prompt.		
PRINTING	If the transaction is approved and receipt printing is enabled, the printer prints a receipt of the transaction.		
14. READY **nnn**	The terminal returns to the idle prompt indicating it is ready for the next transaction.		

Debit Sale

Follow these procedures to capture a debit sale transaction that requires host authorization.

Di	splay	Response
1.	READY **nnn** SALE	Press the [1] key labeled SALE.
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The display will echo each keypress with an asterisk.

3.	itm ENTER ACCT #	Enter the account number via the keypad, then press [ENTER] and continue with step 5, or slide the card through the cardreader. If entry is made via the cardreader, continue with step 4.
		Note: "itm" is the item number for this transaction.
4.	CREDIT=0 DEBIT=1	This prompt is displayed only if Debit is enabled in Setup. Select "1" for a Debit Sale transaction, then press [ENTER].
5.	EXPIRY DATE MMYY	Enter the four-digit expiration date using two-digits each for month and year, then press [ENTER].
	PROCESSING	
6.	OPERATOR ID	Enter the 2-digit operator ID number, then press [ENTER].
7.	AMOUNT OF SALE ?	Enter the amount of the sale without the decimal, then press [ENTER].
8.	ENTER INVOICE #	Enter the invoice # up to 8 digits, then press [ENTER].
9.	WAITING ON PIN	The terminal displays a "waiting" message.
	<i>PIN Pad display:</i> TOT. \$99999.99	The PIN Pad displays the amount.
10.	. WAITING ON PIN	The terminal displays a "waiting" message.
	PIN Pad display: ENTER PIN PUSH "ENTER"	The customer enters his/her PIN on the PIN Pad, followed by [ENTER].
11.	WAITING FOR ANSR CONNECTED TRANSMITTING RECEIVING	Wait - the terminal is communicating with the host computer.

Display	Response
PIN Pad display: PROCESSING	Wait - the terminal is processing data.
12. <host message=""></host>	The terminal displays the host response. Record the approval number. If the transaction is disapproved, you should take necessary action. Press [CLEAR] to return to the idle prompt.
<i>PIN Pad display:</i> THANK YOU	
PRINTING	If the transaction is approved, the printer prints a receipt of the transaction.
13. READY **nnn**	The terminal returns to the idle prompt indicating it is ready for the next transaction.

Credit Return

Follow these procedures to authorize a credit return. This transaction will always be performed offline.

Dis	splay	Response
1.	READY **nnn** RETURN	Press the [2] key. The terminal pauses and displays the type of transaction.
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The display will echo each keypress with an asterisk.
3.	itm ENTER ACCT #	Enter the account number via the keypad, then press [ENTER] and continue with step 5, or slide the card through the cardreader. If entry is made via the cardreader, continue with step 4.
4.	CREDIT=0 DEBIT=1	This prompt is displayed only if Debit is enabled in Setup. Enter "0" for a Credit Return, then press [ENTER].
5.	EXPIRY DATE MMYY	Enter the four-digit expiration date using two- digits each for month and year, then press [ENTER].
	PROCESSING	
	te: The following prompts in appear, depending upon op	n step 6 and steps 8 through 11 may or may otions selected in setup.
6.	OPERATOR ID	Enter the 2-digit operator ID number, then press [ENTER].
7.	AMOUNT OF SALE ?	Enter the amount of the sale without the decimal, then press [ENTER].
8.	RETAIL TERMS	Enter the 4-digit retail terms, then press [ENTER].
9.	PHONE ORDER? Y/N	Enter [9] for "Y" if this is a phone order, or [6] for "N" if it is not, then press [ENTER]. Press [ENTER] to bypass for no Phone Order.
10.	DESC CODE	Enter the descriptor codes, up to 4 sets, then press [ENTER].
11.	ENTER INVOICE #	Enter the invoice number up to 8 digits, then press [ENTER].
	PROCESSING	
12.	ACCEPTED itm	Record the approval number. Press
	(itm=trans. item #)	[CLEAR] to return to the idle prompt.

Display	Response	
PRINTING	If receipt printing is enabled, the printer prints a receipt of the transaction.	
13. READY **nnn**	The terminal returns to the idle prompt indicating it is ready for the next transaction.	

Debit Return

Follow these procedures to authorize a debit return. This transaction will always be performed online.

Di	splay	Response
1.	READY **nnn** RETURN	Press the [2] key. The terminal pauses and displays the type of transaction.
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The display will echo each keypress with an asterisk.

3.	itm ENTER ACCT #	Enter the account number via the keypad, then press [ENTER] and continue with step 5, or slide the card through the cardreader. If entry is made via the cardreader, continue with step 4.
4.	CREDIT=0 DEBIT=1	This prompt is displayed only if Debit is enabled in Setup. Enter "1" for a Debit Return, then press [ENTER].
5.	EXPIRY DATE MMYY	Enter the four-digit expiration date using two-digits each for month and year, then press [ENTER].
	PROCESSING	
6.	OPERATOR ID	Enter the 2-digit operator ID number, then press [ENTER].
7.	AMOUNT OF SALE ?	Enter the amount of the sale without the decimal, then press [ENTER].
8.	ENTER INVOICE #	Enter the invoice number up to 8 digits, then press [ENTER].
9.	WAITING ON PIN	The terminal displays a "waiting" message.
	PIN Pad display: TOT. \$99999.99	The PIN Pad displays the transaction amount.
10.	WAITING ON PIN	The terminal displays a "waiting" message.
	PIN Pad display: ENTER PIN PUSH "ENTER"	The customer enters his/her PIN on the PIN Pad, followed by [ENTER].
11.	WAITING FOR ANSR CONNECTED TRANSMITTING RECEIVING	Wait - the terminal is communicating with the host computer.
	PIN Pad display: PROCESSING	Wait - the terminal is processing data.

Display	Response
12. <host message=""></host>	The terminal displays the host response. Record the approval number. If the transaction is disapproved, you should take necessary action. Press [CLEAR] to return to the idle prompt.
<i>PIN Pad display:</i> THANK YOU	
PRINTING	If the transaction is approved, the printer prints a receipt of the transaction.
13. READY **nnn**	The terminal returns to the idle prompt indicating it is ready for the next transaction.

Auth Only

This transaction is used to authorize a transaction without ticket data capture.

Di	splay	Response
1.	READY **nnn**	Press the [3] key labeled AUTH ONLY. The terminal will display the type of transaction.
	AUTH ONLY	terrimal will display the type of transaction.
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The display will echo each keypress with an asterisk.
3.	ENTER ACCOUNT #	Enter the account number via the keypad or slide the card through the cardreader. If entry is made via the cardreader, go to step 5.
4.	EXPIRY DATE MMYY	Enter the card's expiration date, using two digits each for month and year, then press [ENTER].
	PROCESSING	
5.	AMOUNT OF SALE ?	Enter the amount of the sale without the decimal, then press [ENTER].
6.	PHONE ORDER? Y/N	Enter [9] for "Y" if this is a phone order, or [6] for "N" if it is not, then press [ENTER]. Press [ENTER] to bypass for no Phone Order.
		Note: This prompt may or may not appear, depending on options selected in Setup.
7.	WAITING FOR ANSR CONNECTED TRANSMITTING RECEIVING	Wait - the terminal is communicating with the host computer.
8.	<host message=""></host>	The terminal displays the host response. Record the approval number. If the transaction is disapproved, you should take necessary action. Press [CLEAR] to return to the idle prompt.
	PRINTING	If the transaction is approved and receipt printing is enabled, the printer prints a receipt of the transaction.
9.	READY **nnn**	The terminal returns to the idle prompt indicating it is ready for the next transaction.

Void

Follow these procedures to void a transaction completed earlier in the batch. Voids will always be approved offline.

Note: You cannot void a debit transaction.

Display		Response
1.	READY **nnn** VOID	Press the [4] key labeled VOID.
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The display will echo each keypress with an asterisk.
3.	ENTER ITEM #	Press [ENTER] to display the last transaction or enter the item number of the transaction you wish to void, then press [ENTER].
	NOT FOUND	The terminal cannot find the entered item number. Press [CLEAR] to return to the idle state.
4.	itm AA \$99999.99 999999999999999 OP IIIIIII RET TERMS 9999 8888888888888 AAAAAAAAAAXXXXXX	The terminal displays the transaction data where: itm = item number AA = transaction type \$99999.99 = amount of sale 999999 = account number OP = operator ID IIIIIII = invoice number RE TERMS 9999 = retail terms 888888888888888 = descriptor codes AAAAAAAAAAAA = host response
		Press [*] or [#] to scroll the display. Press [ENTER] to continue or [CLEAR] to end the transaction.
5.	VOID-PRESS ENTER	Press [ENTER] to continue or [CLEAR] to return to the idle prompt.
6.	ENTER TO CONFIRM PROCESSING	Press [ENTER] to confirm the void, or [CLEAR] to end the transaction.
7.	ACCEPTED itm	The transaction was approved offline.
	(itm=trans. item #)	
	PRINTING	If receipt printing is enabled, the printer prints a receipt of the transaction.
		Press [CLEAR] to return to the idle prompt.
8.	READY **nnn**	The terminal returns to the idle prompt indicating it is ready for the next transaction.

Ticket Only

Follow these steps to process Ticket Only transactions.

Note: This transaction will always be processed offline.

Dis	splay	Response
1.	READY **nnn** TKT ONLY	Press the [5] key, labeled TKT ONLY.
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The display will echo each keypress with an asterisk.
3.	itm ENTER ACCT #	Slide the card through the cardreader or enter the account number on the keyboard, then press [ENTER]. If entry is made via the cardreader, go to step 5.
4.	EXPIRY DATE MMYY	Enter the 4-digit card expiration date using two digits each for the month and year, then press [ENTER].
	PROCESSING	
No	te: The following prompts in appear, depending upon of	n step 5 and steps 7 through 11 may or may ptions selected in setup.
5.	OPERATOR ID	Enter the 2-digit operator ID number, then press [ENTER].
6.	AMOUNT OF SALE ?	Enter the amount of the sale without the decimal, then press [ENTER].
7.	RETAIL TERMS	Enter the 4-digit retail terms, then press [ENTER].
8.	PHONE ORDER? Y/N	Enter [9] for "Y" if this is a phone order, or [6] for "N" if it is not, then press [ENTER]. Press [ENTER] to bypass for no Phone Order.
9.	ENTER AUTH CODE	Enter the authorization code, up to 6 alphanumeric characters, then press [ENTER].
10.	DESC CODE	Enter the descriptor code, up to 4 sets, then press [ENTER].
11.	ENTER INVOICE #	Enter the invoice number up to 8 digits, then press [ENTER].
	PROCESSING	
12.	ACCEPTED itm	The terminal displays this response if the transaction was approved. Record the approval number. Press [CLEAR] to return to the idle prompt.

Display	Response
PRINTING	If the transaction is approved and auto print is enabled, the printer prints a receipt of the transaction.
13. READY **nnn**	The terminal returns to the idle prompt indicating it is ready for the next transaction.

Inquiry

Follow these procedures to check the dollar amount of the previous business day's deposits.

Display		Response
1.	READY **nnn** INQUIRY	Press the [6] key labeled INQUIRY.
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The display will echo each keypress with an asterisk.

3.	CREDIT=0 DEBIT=1	Enter "0" for a Credit inquiry, or "1" for a Debit inquiry, then press [ENTER].
4.	WAITING FOR ANSR CONNECTED TRANSMITTING RECEIVING	Wait - the terminal is communicating with the host computer.
5.	<host response=""></host>	A dollar amount will be displayed on the terminal. Press [*] or [#] to scroll the display.
		Press [CLEAR] to return to the idle prompt.
6.	READY **nnn**	The terminal returns to the idle prompt indicating it is ready to proceed with the next transaction.

Check Guarantee

Follow this procedure to obtain check approval in a transaction where payment is being made by check.

Di	splay	Response
1.	READY **nnn**	Press the [8] key labeled CHECK.
	CHECK	
2.	ENTER ID NUMBER	Slide the card through the cardreader, or enter the ID number on the keyboard, then press [ENTER].
3.	ENTER STATE CODE	Enter the 2-digit state code.
4.	AMOUNT OF SALE ?	Enter the dollar amount of the sale without the decimal, then press [ENTER].
5.	WAITING FOR ANSR CONNECTED TRANSMITTING RECEIVING	WAIT - the terminal is communicating with the host computer.
6.	<host response=""></host>	Press [*] or [#] to scroll the display. Record approval number. Take necessary action if disapproved.
		Press [CLEAR] to return to the idle prompt.
7.	READY **nnn**	The terminal returns to the idle prompt indicating it is ready to proceed with the next transaction.

Close Batch

Follow this procedure to close a batch of transactions with the host. This will clear the batch from the terminal's memory and enable it to store future transactions.

Display		Response
1.	READY **nnn**	Press the [9] key labeled CLOSE.
	CLOSE BATCH	
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The display will echo each keypress with an asterisk.

3.	ENTER AMOUNT	This prompt will only appear if the auto-in- sert totals option is set to "OFF". Enter the terminal total amount without the decimal, then press [ENTER].
	PRINTING	If Auto Report is set to "ON", the printer prints the Detail Report and Terminal Totals Report.
4.	REPORTING? Y/N	This prompt only appears if Auto Report is set to "OFF". Enter [9] for "Y" to go to the print options menu and print the transactions in the batch, or [6] for "N" to continue.
5.	CLOSING >>>> CLOSING >>>>	The terminal is formally closing the batch with the host computer. The display will alternate messages indicating it is transmitting and receiving.
6.	<host response=""></host>	Press [CLEAR] to return to the idle prompt.
	PRINTING	If the printer is attached and selected, it prints the close report.
7.	READY **nnn**	The terminal returns to the idle prompt indicating it is ready to proceed with the next transaction.

7. Terminal Functions

Terminal functions include operations that do not require communication with a host. To use the terminal in the function mode, press the [FUNC/ENTER] blue key followed by the desired function key.

Note: The **nnn** indicates the number of spaces left for storage of data capture transactions. For example, READY **3** indicates that there is space for storage of 3 more transactions.

Item Review

Use this function to review items stored in the terminal capture file. You may also void a record using the [4] key, print an item and edit an amount field, however, you may not edit a voided record.

Note: Debit transactions cannot be edited.

Display		Response		
1.	READY **nnn**	Press [FUNC] and the [1] key labeled ITEM REV.		
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The terminal will echo each keypress with an asterisk.		
3.	ENTER CARD TYPE	Enter [1], [2] [6] for card type or press [ENTER] to review the beginning of the batch.		
		Note: If only one card type was set up for all cards, this prompt will not appear.		
4.	ENTER ITEM #	Enter the item number of the transaction to review or press [ENTER] to review the first item in the batch.		
	NOT FOUND	The terminal cannot find the item number. Press [CLEAR] to return to the idle prompt.		
		Note: This prompt is a warning and may not be displayed. When it is displayed, follow the recommended response.		

Dis	splay	Response		
5.	itm AA \$99999.99 999999999999999 OP IIIIIIIII RET TERMS 9999 888888888 AAAAAAAAAAAXXXXXX	Press [*] or [#] to scroll the display fields. The terminal displays transaction data in 6 screens which contain the following data: itm = Item number AA = Transaction type \$99999.99 = Amount 9999999999999999 = Account number OP = Operator ID, if enabled IIIIIII = Invoice number RET TERMS 9999 = Retail terms 88888888888 = Descriptor codes AAAAAAAAXXXXXXX = Host response		
		Press [ALPHA] to print this record and remain on this step. Press [4] to Void the record and continue with step 6. If you are viewing an amount field and wish to change the amount, press [BACKSPACE], key in the new amount, press [ENTER] and remain at this step. Press [CLEAR] to end the record review, or press [ENTER] to view the next item.		
6.	VOID-PRESS ENTER	Press [ENTER] to void this record, or press [CLEAR] to quit.		
7.	ENTER TO CONFIRM	Press [ENTER] again to confirm the void, or press any other key to return to step 5. Press [CLEAR] to return to the idle prompt.		
	END OF BATCH	The terminal displays "END OF BATCH" after review of the last item in the batch. Press [CLEAR] to return to the idle prompt.		
8.	READY **nnn**	The terminal returns to the idle prompt indicating it is ready to proceed with the next function.		

Totals Review

Follow this procedure to review terminal totals by card type(s), or by operator ID.

Display			Response		
1.	READY	**nnn**	Press [FUNC] and the [2] key labeled TOTALS.		
2.	ENTER	PASSWORD	Enter the manager password if required, then press [ENTER]. The terminal will echo each keypress with an asterisk.		
3.	CARD=	1 OP=2	Enter "1" for credit card transaction totals and continue with step 4, or enter "2" for operator totals and continue with step 7.		
4.	ENTER	CARD TYPE	Enter [1], [2] [6], for card type or press [ENTER] to go to step 6 for the terminal grand total.		
5.	AAAAA 9T 9S 9R 9VS 9VR	AAA 999 99999.99 999 99999.99 999 99999.99 999 99999.99	The terminal displays the accumulator name for one second, then the specified totals for the card type. Press [*] or [#] to scroll the display. Press [ENTER] to return to step 4 or [CLEAR] to end. 9 = card type 1-6 T = totals, no. items and amount S = Sale totals, no. items and amount R = Return totals, no. items and amount VS = Void Sale totals, no. items, amount VR = Void Return totals, no. items, amount		
6.	TT 999 999999.99 CDT 999 999999.99 DBT 999 999999.99		The terminal displays terminal totals, credit and debit totals. Press [ENTER] to return to step 4 and enter another card type to review or press [CLEAR] to return to the idle prompt.		
7.	OPERATOR ID		Enter the operator ID for individual totals, then press [ENTER] and continue with step 9, or press [ENTER] for all totals and continue with step 8.		
8.	ОТ	999999.99	The terminal displays totals for all operator IDs (OT= Operator Totals). Press [ENTER] to return to step 7 and enter another operator ID.		
9.	O nn	999999.99	The terminal displays totals for the selected operator ID. Press [ENTER] to return to step 7 or [CLEAR] to return to the idle prompt.		
10. READY **nnn**		**nnn**	The terminal returns to the idle prompt indicating it is ready to proceed with the next function.		

Print Options

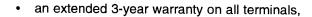
Follow these procedures to print batch details, operator totals, terminal totals or to re-print the last receipt.

Display		Response		
1.	READY **nnn**	Press [FUNC] and the [5] key labeled PRINT.		
2.	ENTER PASSWORD	Enter the manager password if required, then press [ENTER]. The terminal will echo each keypress with an asterisk.		

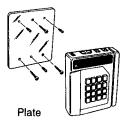
3.	PRINT OPTION ?	Enter the number that corresponds to the item you wish to print, then press [ENTER].		
		1 - detail items2 - terminal totals3 - reprint last receipt		
		If you select "1", continue with step 4. If you select "2", continue with step 7. If you select "3", continue with step 8.		
4.	DETAIL			
	ENTER CARD TYPE	Enter the card type, then press [ENTER] or press [ENTER] for all card types.		
5.	SORT BY ID? Y/N	Select "Y" to print a detail report by operator number and in item number order, and continue with step 9. Select "N" for a detail report in item number order only and continue with step 6.		
6.	ENTER ITEM #	Enter the item number and press [ENTER], or press [ENTER] for a printed list of all items and continue with step 9.		
7.	TOTALS			
	CARD=1 OP=2	Enter "1" for a printed report of credit card transaction totals, then press [ENTER], or enter "2" for a printed report of operator totals. Continue with step 9.		
	RE-PRINT	The terminal displays this message for one second, then proceeds to re-print the last receipt.		
8.	ENTER ITEM #	Enter the item number of the record you wish to reprint, or press [ENTER] to reprint the last transaction, provided no new transaction has been initiated.		
9.	PRINTING	The printer prints the selected option.		
10). READY **nnn**	The terminal returns to the idle state and is ready to proceed with the next function.		

8. Accessories

VeriFone provides an assortment of accessories to enhance your TRANZ 330 terminals. In addition to the Printers 150 and 250, VeriFone offers:

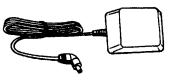


- · plastic key covers to protect keyboards from dust and spills,
- silk-screened custom key overlays that display your company's logo and other special key functions,
- an assortment of AC power packs for your "spares" inventory,
- a variety of printer cables available in different lengths and colors for the TRANZ 330 terminal and Printers 150 and 250,
- stackers that conveniently package your terminal and printer into one small footprint, providing more counter space,
- TRANZstands for cable channeling and side-by-side mounting,
- wedges for mounting your terminal to countertops or walls,
- plates for wall-mounting your terminal,
- · telephone cords,
- duplex telephone adapters for connecting multiple telephone devices to a single jack,
- TranzFones that add an integrated cradle/handset telephone to your system. They include a built-in wedge and can be wall mounted.
 - consumables such as paper and printer ribbon you can order by phone (800-233-0522) or FAX (714-434-2498).



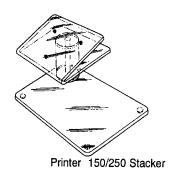


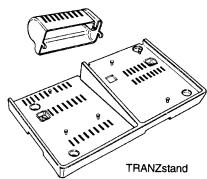




Power Supply







Appendix A. Printer 150

Printer 150 Installation

The Printer 150 is a freestanding dot-matrix slip printer for VeriFone terminals or computers equipped with an RS232 serial port. The Printer 150 prints receipts and local reports on forms as thick as three-ply with up to 42 characters per line.

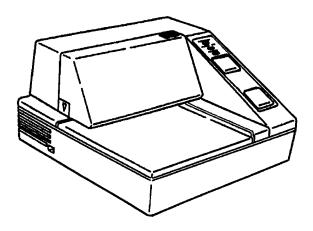


Figure A-1. Printer 150

Standard Model Printer 150

The standard model has two operating modes: the standard mode and the Printer 100 emulation mode. The Printer 100 emulation mode is for terminals with application programs written for use with the VeriFone Printer 100.

Unpacking the Printer 150

Carefully inspect the shipping carton and its contents for damage that occurred during shipping. If the printer is damaged, immediately file a claim with the shipping company or carrier and notify VeriFone, Inc. Do not use the damaged printer.

To unpack the Printer 150:

- 1. With the shipping carton right side up, open the carton's lid and remove its contents. You should have:
 - Printer 150,
 - · power pack,
 - ribbon cassette,
 - · AC power cord,
 - Rubber spacer (located under print head)

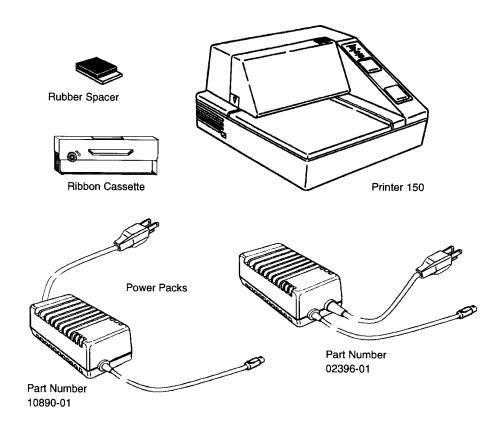


Figure A-2. Printer 150 Components

- 2. Place the Printer 150 on a solid desk or table top. When choosing a location for your printer, avoid areas with
 - · direct sunlight or objects that radiate heat,
 - · excessive moisture,
 - · excessive dust,
 - devices that cause excessive voltage fluctuations or electrical noise such as air conditioners, fans, electric motors or high frequency security devices.
- 3. Remove the rubber spacer from under the print head.

CAUTION: The rubber spacer protects the print head during shipment and must be removed before operating the Printer 150.

Always wedge the rubber spacer securely under the print head overhang prior to storing or shipping the printer (see Figure A-3). Failure to do so may damage the printer and will invalidate your warranty.

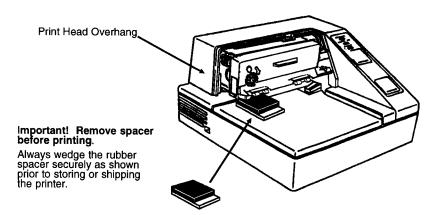


Figure A-3. Rubber Spacer Placement

Setting the DIP Switches

CAUTION: Always disconnect the power before changing the DIP switch settings.

A set of 10 DIP switches is located on the underside of the printer (figure A-3). This application requires that switches 1-8 be set to ON and switches 9 and 10 be set to OFF.

Refer to the table below for Printer 100 emulation mode switch settings.

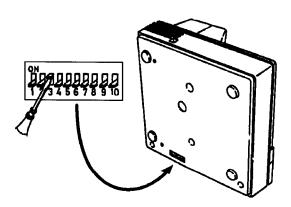


Figure A-4. Location of DIP Switches

Printer 100 Emulation Mode DIP Switch Settings

For ZON Jr XL terminals

Switch No. 1 2 3 4 5 6 7 8 9 10 Position on on on on on on on on on of on

For all other terminals (Note: Switch 6 is not used.)

Switch No. 1 2 3 4 5 6 7 8 9 10
Position on on off off -- on on off on

Printer 150 Standard Mode DIP Switch Settings

Switches 1, 2, 3 (Character Set
--------------------	---------------

Country Switch 1 Switch 2 Switch 3	Owneries 1, 2, 5	Character Set				
France off on on on off on United Kingdom off off on On Denmark on on off off Off Off Sweden off		Country :	Switch 1	Switch 2	Switch 3	
France off on on on off on United Kingdom off off on On Denmark on on off off Off Off Sweden off		United States	on	on	on	
Germany on off on United Kingdom off off on On Off Sweden off on Off Off Off Sweden off on Off Off Off Off Off Off Off Off Off Of						
United Kingdom off off on off Sweden off on off Sweden off on off Italy on off off off off off off Spain off off off off off off off off off of						
Denmark						
Sweden						
Italy Spain off off off						
Spain Off Off Off						
7 bit word 8 bit word off Switch 5						
Switch 5 Parity Check Enabled Off	Switch 4	Word Length				
Switch 5 Parity Check Enabled Off		7 bit word	on			
Enabled on Disabled off Switch 6 Parity Even Parity on Odd Parity off Switches 7, 8, 9 Baud Rate Switch 7 Switch 8 Switch 9 110 on on on on 150 off on on 300 on off on 600 off off off on 1200 on on off off 2400 off on off 4800 on off off off 9600 off off off off Switch 10 Printer Mode P100 Emulation on						
Switch 6 Parity Even Parity Ond Parity Off	Switch 5	Parity Check				
Switch 6 Parity Even Parity Ond Parity Off		Enabled	on			
Even Parity on Odd Parity off Switches 7, 8, 9 Baud Rate Switch 7 Switch 8 Switch 9 110 on on on on 150 on 300 on off on 600 off off on 1200 on on off 2400 off on off 4800 on off off off off 9600 off						
Switches 7, 8, 9 Baud Rate Switch 7 Switch 8 Switch 9 110 on on on 150 off on on 300 on off on 600 off off on 1200 on on off 2400 off on off 4800 on off off 9600 off off off Switch 10 Printer Mode P100 Emulation on on	Switch 6	Parity				
Switches 7, 8, 9 Baud Rate Switch 7 Switch 8 Switch 9 110 on on on 150 off on on 300 on off on 600 off off on 1200 on on off 2400 off on off 4800 on off off 9600 off off off Switch 10 Printer Mode P100 Emulation on on		Even Parity	on			
110 on on on 150 on 300 off on on 300 on off on 600 off off on 1200 on on off 2400 off on off 4800 on off off off 9600 off off off off off off off off off o						
150 off on on 300 on off on 600 off off on 600 off off on 1200 on on off 2400 off on off off 4800 on off off off 9600 off off off off off off off off off o	Switches 7, 8, 9	Baud Rate S	Switch 7	Switch 8	Switch 9	
150 off on on 300 on off on 600 off off on 600 off off on 1200 on on off 2400 off on off off 4800 on off off off 9600 off off off off off off off off off o		110	on	On	on	
300 on off on 600 off on 600 off off on 1200 on on off 2400 off on off off off 9600 off off off off off off off off off o						
600 off off on 1200 on on off 2400 off on off 4800 on off off 9600 off off off Switch 10 Printer Mode P100 Emulation on						
1200 on on off 2400 off on off 4800 on off off 9600 off off off Switch 10 Printer Mode P100 Emulation on						
2400 off on off 4800 on off off 9600 off off Switch 10 Printer Mode P100 Emulation on						
4800 on off off off 9600 off off Switch 10 Printer Mode P100 Emulation on						
9600 off off off Switch 10 Printer Mode P100 Emulation on						
P100 Emulation on						
	Switch 10	Printer Mode				

Installing the Printer 150

CAUTION: Unplug the terminal's power pack before connecting the Printer 150.

Before installing the Printer 150, you must have the correct printer interface cable.

- 1. Connect the small plug from the printer power pack to the power connector on the rear of the Printer 150. Ensure that the flat surface is up (arrow facing forward), as shown in Figure A-5.
- 2. Plug the printer interface cable into the 8-pin mini-DIN connector on the rear of the printer.
- 3. Plug the other end of the cable into your terminal's RS232 port.
- 4. Plug the male AC power cord plug into an indoor, grounded 120 volt AC outlet and turn the power switch on. Verify that the green POWER indicator comes on. Do not install or operate the Printer 150 outdoors.

Note: If you are running the Printer 150 in the Printer 100 emulation mode, press the RESET button after you power up your terminal. This will help ensure correct operation with your terminal's application software.

Note: Figure A-5 depicts power pack with part number 02396-01. If power pack with part number 10890-01 is used, the power cord will appear from the opposite side of the power pack (as in Figure A-2); however, this does not effect the connections.

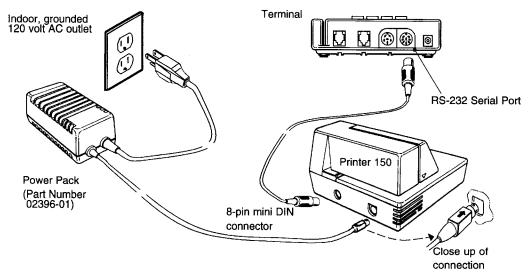


Figure A-5. Printer 150 Connections

Locating the Power Pack

To avoid damage to the printer power pack caused by the inadvertent spilling of liquids into the ventilation holes, the power pack can be mounted on the wall or underneath a counter (see Figure A-6).

Note: Power pack with part number 10890-01 cannot be mounted.

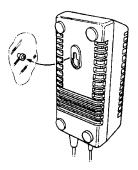


Figure A-6. Wall Mount Option

Replacing the Ribbon Cassette

- 1. Plug the Printer 150 in and turn the power supply on.
- 2. Press the RELEASE button on the front control panel to turn the RELEASE light on.
- 3. Remove the front cover by lightly pressing the top notches and pulling the cover towards the front.
- 4. Gently pull the ribbon cassette out of the printer.

IMPORTANT: The ribbon cassette cannot be removed unless the RELEASE light on the control panel is on (See Step 2).

- 5. Take a new ribbon cassette and turn the ribbon knob in the direction shown by the arrow to remove any slack.
- 6. Insert the new cassette, threading the ribbon under the print head and over the ribbon guides. Align the cassette mounting tabs with the holes in the mounting assembly. Gently push the cassette into place.
- 7. Insert the printer cover, upper side first, back onto the Printer 150. Push it forward until it clicks into place.

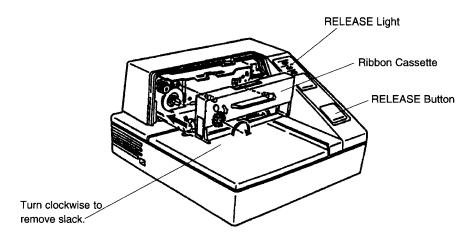


Figure A-7. Ribbon Cassette Replacement

Running the Print Test

- 1. Turn the power on and press the RELEASE button on the control panel to turn on the RELEASE light.
- 2. Slide a blank slip form from the left or front side of the printer. Slide the form towards the rear of the printer until it touches the form stop.
- Unplug the power cord from the printer. Then, while holding down one of the two front panel buttons, plug the power cord back in. The printer will print a short test document.

Cleaning

CAUTION: Never use thinner, trichloroethylene, or ketone based solvents to clean the printer as they may deteriorate plastic parts.

- 1. Remove dirt with a clean, damp cloth and mild soap. Remove stubborn stains with alcohol or benzine.
- 2. If necessary use a small vacuum cleaner to remove paper particles and dust from the inside of the printer.

Printer 150 Specifications

Power requirements

Voltage: 110V to 120 volts AC 60 Hz Power consumption: 5.5 Amps (peak)

Dimensions and weight Height: 101.5 mm (4.0 in.) Width: 180 mm (7.1 in.) Depth: 190.5 mm (7.5 in) Weight: 1.6 kg. (3.52 lb.)

Printer 150 Accessories

Ribbon Cartridges VeriFone part number CRM0010-02 (Purple)

Interface Cables The interface cables are listed here without length specification (-XX suffix).

Normally, a -00 suffix denotes a 1 meter length. For other lengths, contact

your VeriFone sales representative.

For ZON Jr XL terminals:

10465-XX Printer 100 Emulation Mode

For TRANZ 330, 340, 380, ZON 530, 530M, 531, 531M, 540, 540M, 541,

541M, ZON II XPe, and ZON II XJ terminals:

10448-XX Standard Mode

(Note: Use this cable with P150 part number P002-114-02)

10211-XX Printer 100 Emulation Mode

(Note: Use this cable with P150 part number P002-114-00)

For ZON II, ZON XP terminals:

10455-XX Standard Mode

10211-XX Printer 100 Emulation Mode

Power Packs 02396-01 U.S. use

10890-01 International use

Figure A-8. Sample Sale Receipt

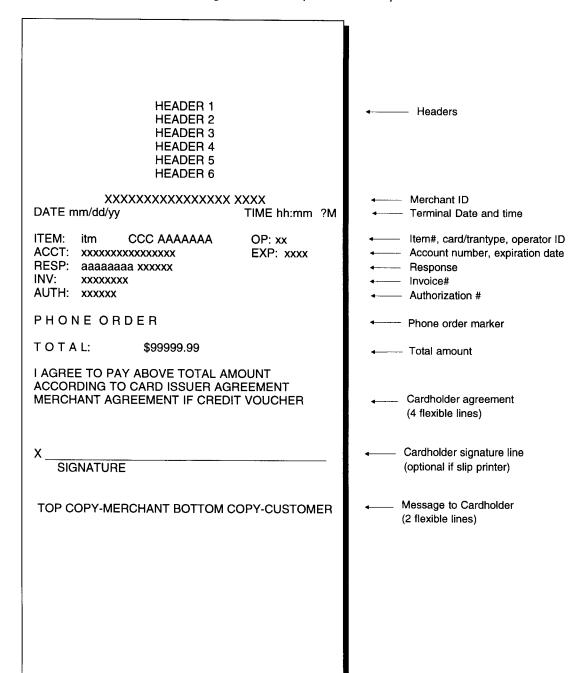


Figure A-9. Sample Detail Report

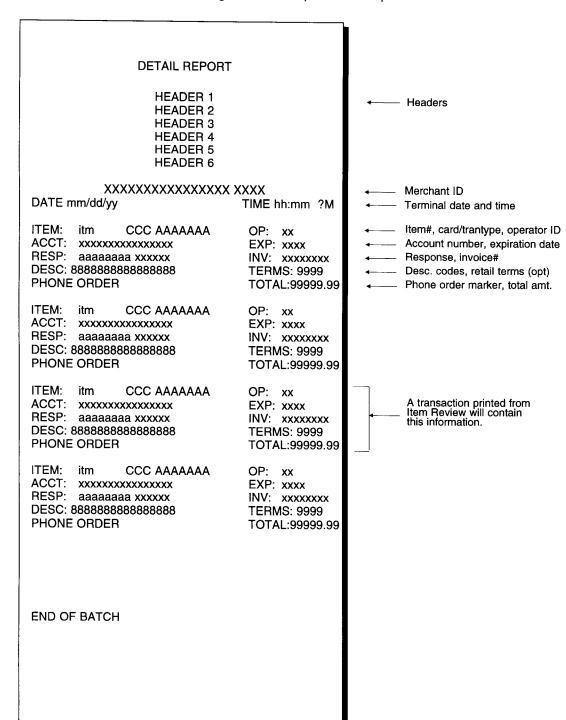


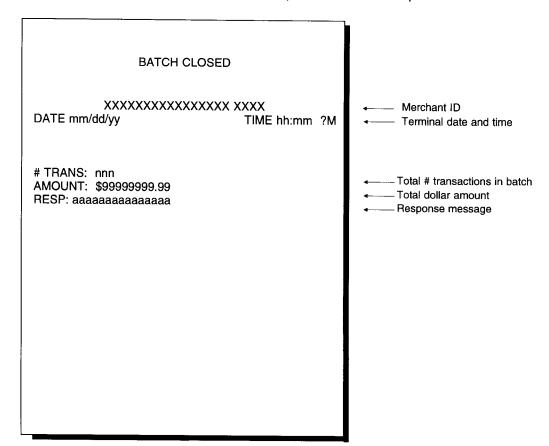
Figure A-10. Sample Terminal Totals Report

TOTALS REPORT					
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					←
#	NAME	TRAN	COUNT	AMOUNT	
1 1 1 1 1	XXXXXXXX XXXXXXXX XXXXXXXX	S R VS VR	itm nnn nnn nnn	999999.99 99999.99 99999.99 99999.99	← Terminal count and amount totals ← Card type 1, sale total ← Card type 1, return total ← Card type 1, void sale total ← Card type 1, void return total
2	S	T nnn	nnn 99999.99	99999.99	Card count and amountCard type 2, sale total
			· ·		
6 6 6 6	XXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXX	S R VS VR 9	nnn nnn nnn nnn nnn	99999.99 99999.99 99999.9 99999.9	Card type 6, sale total Card type 6, return total Card type 6, void sale total Card type 6, void return total Card count and amount
DE	BITS	Т	nnn	99999.99	← Debit count and amount

Figure A-11. Sample Operator Totals Report

	OPERATOR TO		
DATE	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX XXXX TIME hh:mm ?M	← Merchant ID ← Terminal date and time
АА	CARD TOTAL	\$999999.99	← Operator ID, tran total
AA	CARD TOTAL	\$99999.99	
AA	CARD TOTAL	\$99999.99	
AA	CARD TOTAL	\$99999.99	
AA	CARD TOTAL	\$99999.99	
AA	CARD TOTAL	\$99999.99	
AA	CARD TOTAL	\$99999.99	
AA	CARD TOTAL	\$999999.99	- -
AA	CARD TOTAL	\$999999.99	
END (OF OPERATORS		

Figure A-12. Sample Batch Closed Report



Appendix B. Printer 250

Introduction

The Printer 250 is a freestanding dot-matrix roll printer for VeriFone terminals or computers equipped with an RS-232 serial port. Capable of printing up to 42 characters per line, it is ideal for printing receipts or data on normal or two-ply carbonless three-inch wide roll papers.

Note: See pages A-8 to A-12 for sample formats of printed receipts and reports.

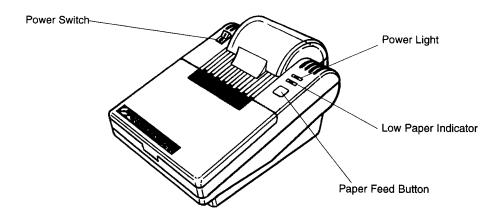


Figure B-1. Printer 250

Unpacking the Printer 250

1. With the shipping carton right side up, open the carton's lid and remove its contents. You should have the components shown in Figure B-2.

Note: Save all packing material in case you ever have to ship the Printer 250 or move it to another location.

- 2. Place the printer on a solid desk or table top. When choosing a location for the printer, avoid areas with
 - direct sunlight or objects that radiate heat,
 - excessive moisture,
 - excessive dust,
 - devices that cause excessive voltage fluctuations or electrical noise such as air conditioners, fans, electric motors or high frequency security devices.

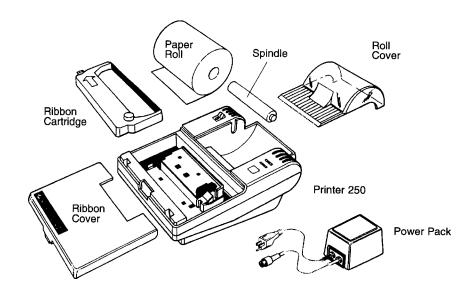


Figure B-2. Printer 250 Components

Setting the Internal DIP Switches

A set of four DIP switches is located under the ink ribbon in your Printer 250. With the ribbon removed, set the switches as indicated on the next page before connecting and operating the printer. The printer will not operate properly if the switches are not set correctly.

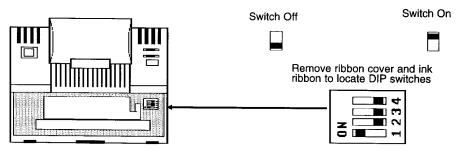
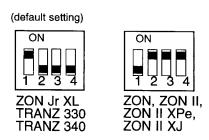


Figure B-3. Location of DIP switches.

CAUTION: Always disconnect the power before changing the DIP switch settings.

Refer to the illustrations and table below for the proper DIP switch settings. If you are not sure of which settings to use, refer to the reference manual for your terminal or computer's application program.



Switch 1	Parity		
	Even Parity Odd Parity	on off	(default setting)
Switch 2	Word Length (d	data bits)	
	7 bit word 8 bit word	off on	(default setting) (no parity)
Switches 3 and 4	Baud Rate	Switch 3	Switch 4
	1200 2400 4800 9600	on on off off	on off on off (default setting)

Installing the Printer 250

CAUTION: Unplug the terminal's power pack before connecting the Printer 250.

Before installing the Printer 250, you must have the correct printer interface cable. The accessories section on page B-6 lists the interface cable part numbers for different VeriFone terminals.

Power Connection

- 1. Connect the 4-pin mini-DIN plug from the printer power pack to the power connector on the right side of the Printer 250 rear panel.
- 2. Plug the Printer 250 power pack into an indoor, grounded 120 volt AC outlet. Do not install or operate the Printer 250 outdoors.

Terminal Connection

- 3. Plug the 8-pin mini-DIN connector on the printer interface cable into the communications port on the left side of the Printer 250 rear panel.
- 4. Plug the other end of the cable into your terminal's RS-232 port.
- 5. Plug in the terminal's power pack.

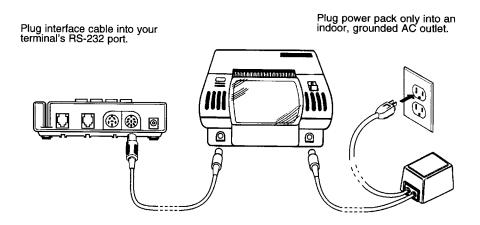


Figure B-4. Printer Connections

Installing or Replacing the Ribbon Cartridge

- 1. Remove the ribbon cover by pressing the front tab and lifting the cover up.
- 2. If you are replacing an old ribbon, lift the old ribbon off and discard it.
- 3. Remove the new ribbon cartridge from its protective packaging and insert it, right side first, into the printer. Be sure the round knob is facing up and the ribbon fabric fits between the print head and the ribbon guide.
- 4. Press the left side of the ribbon cartridge into place. If it does not fit easily, lift the cartridge out and try again. Do not force the ribbon cartridge into place.
- 5. Turn the small knob on the cartridge clockwise to remove any slack.
- 6. Insert the two tabs on the rear of the ribbon cover into the slots on the printer.
- 7. Press the front of the cover down and snap it into place.

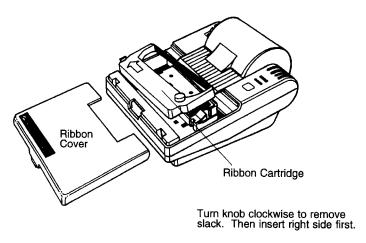


Figure B-5. Installing the Ribbon Cartridge

Installing the Paper Roll

The Printer 250 can accept paper rolls with either 11 mm or 17 mm diameter cores. There are four different types of roll paper available from VeriFone. These are listed by part number and description on page B-6.

Note: For best results, be sure the leading edge of the paper roll is cut cleanly rather than torn before feeding it into the printer. This is particularly important when inserting multiple-part paper.

- 1. Remove the roll cover by pressing the tab at the rear of the printer and lifting the cover up.
- 2. Press the "I" symbol on the power switch down to turn the power on.

- Guide the end of the paper roll into the metal paper slot on the printer. While feeding the end of the paper into the slot with one hand, press the paper feed button several times until the printer grabs the paper.
- Insert the paper roll spindle into the roll of paper.
- 5. Insert the spindle with the attached paper roll into the roll cavity. The ends of the spindle must fit into the slots on the sides of the cavity and the paper must feed from the bottom of the roll.
- 6. Hold the paper feed button down until about two inches of paper emerge from the printer.
- 7. Replace the roll cover onto the printer, making sure that the paper extends through the slot on top of the printer. Snap the roll cover tab into place.

CAUTION: Pulling paper out from the back of the printer will damage the feed mechanism. See Removing the Paper Roll on this page.

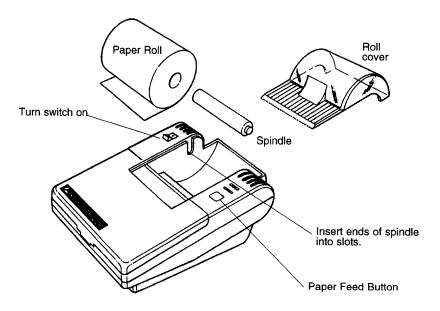


Figure B-6. Installing the Paper Roll (exploded view)

Running the Print Test

- 1. Turn the power switch off.
- 2. Hold down the paper feed button and turn the power switch back on. The test will run continuously until the printer is turned off.

Removing the Paper Roll

CAUTION: If you must remove the paper roll, do not pull the paper out from the back of the printer. This could damage the feed mechanism. Instead, cut or tear the paper from the rear of the printer. Use the paper feed button to remove the stub remaining in the feed mechanism.

Cleaning

CAUTION: Never use thinner, trichloroethylene, or ketone based solvents to clean the printer as they may damage plastic parts.

- 1. Remove dirt using a clean cloth dampened with water and mild soap. You can remove some stubborn stains with alcohol.
- 2. If necessary use a small vacuum cleaner to remove paper particles and dust from the inside of the printer.

Printer 250 Specifications

Power requirements

Voltage: 110V to 120 volts AC 60 Hz

Power consumption: 20 watts (average) 31 watts (peak)

Dimensions and weight

Height: 105 mm (4.13 in.) Width: 155 mm (6.1 in.) Depth: 225 mm (8.86 in.)

Footprint: 310.2 square cm. (48.1 square in.)

Weight (including full roll of paper): 1.37 kg. (3 lb.)

Accessories

VeriFone

Part No. Description

Ribbon Cartridges

CRM0009-02 Purple

CRM0009-03 Red/Black

Roll paper

CRM0008 Paper, roll 1-ply, 17 mm core

CRM0008-01 Paper, roll 2-ply carbonless, 11 mm core
CRM0008-02 Paper, roll 3-ply carbonless, 11 mm core

CRM0008-03 Paper, roll 1-ply, 11 mm core

Interface Cables:

The interface cables are listed here without length specification (-XX suffix). Normally, a -00 suffix denotes a 1 meter length. For other lengths, contact your VeriFone sales representative.

For ZON Jr XL, TRANZ 330, 340, 380, ZON 530, 530M, 531, 531M, 540, 540M, 541, 541M, ZON II XPe*, ZON II XJ* terminals:

10448-XX with straight terminal connector 10454-XX with 90 degree terminal connector

*Requires 10448-XX cable

For ZON, ZON II terminals:

10512-XX

Appendix C. PIN Pad 101

The PIN Pad 101 is a data entry device that accepts personal identification numbers (PINs) for Debit card transactions. Typically, a PIN is a four to twelve digit code known only by the customer and the bank. A PIN is used during retail transactions to verify that the customer is authorized to use the credit card offered; the PIN also serves as the electronic signature for the credit or debit transaction.

The PIN Pad connects to a TRANZ 330 terminal that controls the PIN Pad operations and does the actual communication with the host computer.

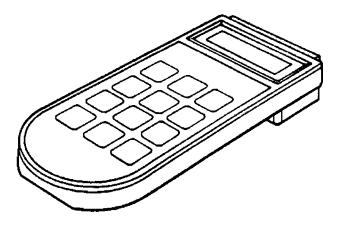


Figure C-1. PIN Pad 101

PIN Pad 101 Components

The PIN Pad 101 components include:

- eight-character display
- 12 key telephone-style keypad

Display

The eight-character display shows up to 16 characters through automatic scrolling. The PIN Pad 101 displays fully-formed numerals, letters and special characters * and #. Information displayed includes characters entered from the keypad, instructions, prompts and error messages.

Selecting a Location For the PIN Pad

Select a location for the PIN Pad 101 that is convenient for the customer and offers adequate ventilation and protection for the unit.

In general, avoid areas with:

- excessive heat.
- oil or moisture.
- excessive dust,
- excessive electrical noise (caused by air conditioners, motors, fans or power tools),
- direct sunlight,
- artificial light that could reflect glare off the display.

Unpacking

Carefully inspect the shipping carton and its content for shipping damage. If the PIN Pad 101 was damaged during shipment, immediately file a claim with the shipping company and notify VeriFone, Inc.

Warning: Do not use the PIN Pad if it has been damaged.

- 1. Remove the PIN Pad from the shipping carton.
- 2. Remove any protective plastic wrap and place the unit on a table or countertop.
- 3. Remove the protective plastic wrap from the display panel on the top of the PIN Pad.
- 4. Replace all the packing materials, close the lid and save the carton for repacking or moving the PIN Pad in the future.

Connecting the PIN Pad to the Terminal

Unplug the terminal power pack before connecting the PIN Pad.

The PIN Pad 101 rear panel has a modular, four-wire interface port for power and communication connection to the terminal.

Warning: Turn off or unplug the terminal whenever you connect or disconnect the PIN Pad 101. Be sure the terminal is not processing data when you cut power. Memory corruption and data loss can result.

Figure C-2 illustrates how to connect the PIN Pad to a TRANZ 330 terminal. Plug the cable into the PIN Pad connector on the rear of the terminal. Use the rubber grommet (cable cover) to protect the cord. See the lower illustrations for more detail.

- 1. Connect the modular plug on the PIN Pad cable to the modular jack on the rear of the PIN Pad.
- 2. Connect the other end of the cable to the PIN Pad port on the rear of the terminal.
- 3. Spread the grommet open and put it on the cord with the narrow end facing the PIN Pad.

4. Slide the grommet up the cord and push its narrow end into the modular jack. When properly installed, the grommet should fit flat against the rear of the PIN Pad.

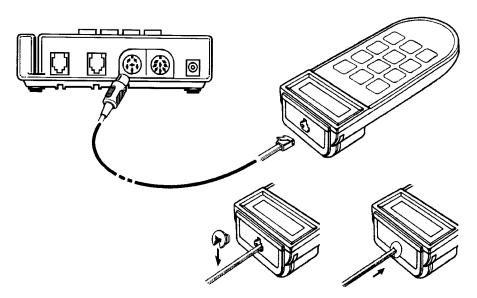


Figure C-2. PIN Pad 101 Cable Connections

PIN Pad Mounting

The optional PIN Pad 101 mount holds your PIN Pad securely to a countertop or a wall. The PIN Pad can be lifted from the mount anytime for handheld operation.

First select a location for the mount on a smooth wall or countertop. Be sure the cable can easily reach the terminal from this position without stretching.



Figure C-3. PIN Pad 101 Mount Components (Exploded View)

Wall Mounting

- Screw the flat wall plate securely to the wall as shown in Figure C-3. Use screw anchors if you are fastening the mount to a cement or brick wall. If you are fastening the plate to drywall, the screws must go into the studs behind the wall. Screw anchors alone will not safely hold the PIN Pad mount to drywall.
- 2. Fasten the angled metal bracket to the wall mount using the TORX machine screws provided. The two slots on the bracket allow a TORX screwdriver to reach these screws.
- 3. Insert the two large slotted screws into the top of the angled bracket but do not tighten them yet.
- 4. Position the keyholes on the molded cradle over the slotted screws on the angled bracket. Slide the mount to the right until both screws are in the narrow ends of the keyholes. If necessary, loosen the screws slightly until the cradle slides easily.
- 5. Tighten the slotted screws to secure the cradle to the angled bracket. Insert the small molded covers to conceal the keyholes.
- 6. Place the PIN Pad firmly into cradle.

Countertop Mounting

- 1. To secure the cradle, screw the wood screws into the countertop through the narrow ends of the keyholes. If you do not want to make any holes, use the double-faced tape provided with the wall mount.
- 2. Place the PIN Pad firmly into the cradle.

PIN Pad 101 Startup

If the PIN Pad master keys are loaded, the PIN Pad automatically starts up when connected to the terminal. Upon startup, the PIN Pad briefly displays the version and date followed by the idle prompt.

The Idle Prompt

The PIN Pad displays rows of characters that resemble a marching arrow (<----). This is the idle prompt and indicates the PIN Pad 101 is ready for use.

Using the Keypad

The PIN Pad 101 has 12 keys--much like a standard telephone--and include letters A through Z, the numerals 0 through 9 and special characters * and #.

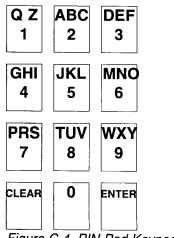


Figure C-4. PIN Pad Keypad

To complete a transaction, the PIN Pad displays a prompt requesting PIN entry. Enter your PIN number and press [ENTER]. The PIN Pad rotates a processing display when it successfully receives the PIN entry.

Note: You can clear the PIN Pad display to re-enter a PIN by pressing [CLEAR]. Refer to the PIN Pad 101 Reference and Programmer's Manual, P/N 10420, for more complete details.

Maintenance

VeriFone follows stringent quality control standards in manufacturing the PIN Pad 101. Each unit receives numerous tests before leaving the factory to ensure quality and reliability. However, should you encounter a problem in operation, read this section for possible causes and solutions.

Cleaning

Periodically clean the PIN Pad with a clean cloth dampened with water and a mild soap or cleaner. Do not use harsh chemicals.

Warning: Because your PIN Pad can be damaged by liquids, do not spray liquid cleaners directly on the terminal. Always apply the cleaner to the cloth before cleaning the PIN Pad.

Returning the PIN Pad

If you need to return your PIN Pad 101 unit for service or replacement, call the toll free number given below and ask for the VeriFone MRA (Merchant Return Authorization) desk. Be sure to mention the serial number found on the bottom of your unit.

If phoning from the United States, call 800-654-1674. If phoning from outside the United States, call 714-979-1870.

Warning: Do not try to service, repair or adjust the PIN Pad in any other way. Return the PIN Pad to VeriFone if it does not operate properly.

Send the malfunctioning PIN Pad to VeriFone, Inc. 3080 Airway Ave., Costa Mesa, CA 92626 for repair or replacement.

Troubleshooting

These troubleshooting guidelines identify various problems and the appropriate corrective action. If you have a problem with your PIN Pad, read these troubleshooting examples. If your problem persists or is not listed here, call the toll free number (800-654-1674) and ask for the VeriFone MRA (Merchant Return Authorization) desk. You must have MRA desk approval before returning your equipment for repair.

Warning: Turn off or unplug the controller whenever connecting or disconnecting it from the PIN Pad 101. Do not turn off or unplug the controller while it is processing; memory corruption and data loss can result. See the controller instructions for controller-specific information and warnings.

Problem	Solution
Display Panel does not work	 Check all your cable connections. Check your terminal's AC outlet to be sure it's supplying sufficient power; substitute the terminal's power pack with another power pack.

Problem	Solution
	 Your application program might not be loaded correctly; download the application program and try again.
	 Run display reliability test as described later in this section.
	If the problem persists, phone the VeriFone MRA desk.
Keypad does not respond	 Check your display panel. If the wrong characters are displayed or nothing at all, refer to the solutions for previous problem.
	Run manual keypad diagnostic as described in the PIN Pad 101 Reference and Programmer's Manual.
	If the problem persists, phone the VeriFone MRA desk.

Appendix D. Prompts and Error Messages

The following list includes the prompts and error messages that may appear on your terminal's display. The list consists of two columns:

- · the left column is the message or prompt;
- the right column contains an explanation of the message and any appropriate required response.

ACCEPTED itm	Approval response if the transaction was performed offline. Press [CLEAR] to return to the idle prompt.
ACCT RANGE ITEM?	Enter the account range item number 1 - 9, then continue to answer all prompts.
ACCUMULATOR NAME	Card Type setup display indicating you selected code 0 of the Setup function. Wait for the next prompt.
ALREADY VOIDED	Display indicating that the transaction selected to be voided has already been voided. Press [CLEAR] to return to the idle prompt.
AMOUNIT OF 0.1 T.	

AMOUNT OF SALE? Enter the total amount of the sale without the decimal, then press [ENTER].

APPROVED: nnnnnn Approval number on AUTHORIZATION ONLY transactions sent from the host.

AUTH ONLY Display when key [3] is pressed when initiating procedures to authorize a sale. Wait for the next prompt.

BATCH IS FULL Indicates that data capture memory is full and no more transactions can be stored in memory until data capture file is cleared.

CALL CENTER Operator should call the credit authorization center voice line.

CARD=1 OP=2	In a Totals Review function, press "1" to review totals by card type or "2" to review operator totals. This prompt also appears in the Print Totals Report function.
CARD RANGE INFO ACCT RANGE ITEM? n-LOW? n-HIGH? n-CARD TYPE?	Setup code 2 was entered allowing the operator to enter card range information. Note: You must answer ALL prompts. Press [9] or [6] for "Y" and "N"
n-CARD ABBREV? n-TERMS? Y/N n-DES CODE 0/2/4	responses.
CHECK	The [8] key was pressed requesting check authorization.
CHECK PRINTER	The printer is not responding. Verify the printer is connected and turned ON. Press [CLEAR] to return to the idle prompt.
CHECK SELECTION PRIMARY PHONE? SECOND PHONE? MERCH ID?	Setup code 6 was entered enabling the operator to select check guarantee service and enter the appropriate data.
CLEAR BATCH	Display when Code 9 of the Setup function is selected. Wait for the next prompt.
CLEAR? Y/N	Setup function code 9 allowing the operator to clear the terminal buffer and return to the setup mode. Press "Y" to continue or "N" to exit the function.
CLOSE BATCH	The Close Batch transaction, key [9], was selected.
CLOSING >>>>	Close Batch display when the terminal is closing with the host.
COMMUNICATING	Display when the terminal is sending or receiving data from the download host.
CONNECTED	The terminal has connected with the host computer and is ready to begin communicating.
CREDIT=0 DEBIT=1	Select "0" for a credit transaction, or "1" for a debit transaction, then press [ENTER].
DECLINED	The host computer has declined authorization of a transaction.
DES CODE	Enter the descriptor codes, up to 4 sets, then press [ENTER].

DETAIL Display indicating print option 1, audit detail, was selected.

DIALING The terminal is dialing the host computer.

DOES NOT BALANCE Display indicating the amount keyed in at the time of the Close is not in

agreement with the terminal balance.

DOWNLOAD DONE Display after completion of successful download.

END OF BATCH Display in an Item Review function indicating the last item in the batch was

reviewed. Press [CLEAR] to return to the idle prompt.

itm ENTER ACCT # Enter the account number on the keyboard or slide the card through the

cardreader. "itm" is the transaction item number, for example 001, 002, 010,

etc.

ENTER AMOUNT Enter the terminal total dollar amount of the batch you wish to close, then

press [ENTER].

ENTER AUTH CODE Enter the authorization code up to 6 alphanumeric characters, then press

[ENTER].

ENTER CARD TYPE When reviewing terminal totals and detail transactions, press [1], [2].....[6] for

the card type you wish to review. This prompt also appears in the Card

Type setup function and the Print function.

ENTER ID NUMBER Enter the ID number on the keyboard, then press [ENTER].

ENTER INVOICE # Enter the invoice number for the transaction, then press [ENTER].

ENTER ITEM # Enter the item number of the transaction to review, or press [ENTER] to

review the first item in the batch.

ENTER NEW PASSWD Enter the new manager password, then press [ENTER].

ENTER PASSWORD Enter the manager password, then press [ENTER].

ENTER SETUP CODE Enter the code that corresponds to the selected option during a terminal

setup function.

ENTER STATE CODE Enter the 2-digit state code in a Check Guarantee transaction using

Telecheck.

ENTER TO CONFIRM Void transaction prompt. Press [ENTER] to confirm voiding the selected

transaction record.

Enter the numeric transaction code, then press [ENTER] when requesting ENTER TRAN CODE

check authorization.

EXPIRY DATE MMYY Enter the 4-digit expiration date using two digits each for the month and

year, then press [ENTER].

FLEX AGREEMENT Printer setup prompt. Enter up to 4 flexible agreement lines, using up to 39 LINE 1?

alphanumeric characters per line. Press [BACKSPACE], then key in data and press [ENTER], or press [BACKSPACE] and [ENTER] to leave the line

LINE 4? blank.

LINE 1?

LINE 2?

FLEX MESSAGE Printer setup prompt. Enter up to 2 flexible message lines, using up to 39

alphanumeric characters per line. Press [BACKSPACE], then key in data and press [ENTER], or press [BACKSPACE] and [ENTER] to leave the line

blank.

FUNCTION? Prompt when the [FUNC/ENTER] key is pressed asking which function the

operator wishes to initiate.

Setup code 1 was selected. Enter the required host information.

HOST INFO PRIMARY PHONE? SECOND PHONE? CLOSE PHONE? MERCH ID?

> IDLE PROMPT Code 8 of the Setup function was selected. Press [ENTER] to leave the idle

prompt unchanged. Press [BACKSPACE] and enter up to 16 alphanumeric characters to change the idle prompt, or [BACKSPACE] and [ENTER] to

keep the default idle prompt READY **nnn**.

INQUIRY Display indicating key [6] was pressed. Wait for the next prompt.

MERCHANT LOGO Printer setup prompt. Enter up to 6 lines of merchant information, using up

LINE 1? to 26 alphanumeric characters per line. Press [BACKSPACE], then key in data and press [ENTER], or press [BACKSPACE] and [ENTER] to leave the

LINE 6?

line blank.

NO ENQ FROM HOST The terminal did not see the ENQ character from the host. Repeat the

transaction, and if you receive the same message, call your authorization

center for help.

NO MERCHANT ID Display when a transaction is initiated and the merchant ID number was not

entered in its memory location. Press [CLEAR] to return to the idle prompt, and follow procedures to enter the merchant ID number in the correct

location.

NO TEL NUM Display when a transaction is initiated and the host telephone number was

not entered in its memory location. Press [CLEAR] to return to the idle prompt, and follow procedures to enter the telephone number in the correct

location.

NO TRANSACTIONS Display when the operator attempts to close, review or print a batch and

there are no transactions stored in the terminal's memory. Press [CLEAR] to

return to the idle prompt.

NOT FOUND The terminal cannot find the item number of the transaction to review that

has been entered by user. Press [CLEAR] to return to the idle prompt.

OPERATOR ID Enter the operator ID number, then press [ENTER].

OPERATOR ID? Y/N Second display of Terminal options setup. Select "Y" to be prompted for the

operator ID, or "N" for no prompt.

OPTIONS Setup code 5 was entered enabling the operator to enter the terminal DEVICE ID?

DEVICE ID? identifier and application options. INVOICE #? Y/N?

RECEIPT? Y/N AUTO REPORT? Y/N AUTO INSERT? Y/N

DEBIT? Y/N

OPERATOR ID? Y/N
Note: Answer all prompts. Press [9] and [6] for "Y" and "N" responses.

PHONE ORDER? Y/N
PREPRINT? Y/N

PASSWORD? Enter the system password, then press [ENTER], to unlock the terminal's

memory. The display will echo each entry with an asterisk (*).

PASSWORD UPDATED Display that indicates new manager password was updated correctly. Press

[CLEAR] to return to the idle prompt.

PHONE ORDER? Y/N Select "Y" if the transaction is a phone order, or "N" if it is not, then press

[ENTER].

PLEASE TRY AGAIN The cardreader was unable to read the card swipe, slide the card again.

PRINT OPTION? Enter [1] to print detail items, [2] to print terminal totals, or [3] to re-print the

last receipt.

PRINTER SELECT Setup code 7 was entered in the Setup function. Enter "Y" or "N" or press [ENTER] to keep the printer already installed.

PRNTR NOT READY

The terminal displays this message if no printer has been specified in Setup or the Receipts terminal option is OFF. Press [CLEAR] to return to the idle

prompt.

PROGRAMING ERR Ø If your terminal displays this message, you can attempt recovery by pressing

the [3] and [5] keys simultaneously, causing the terminal to re-calculate the checksum digit that may be the cause of the error message. An alternate method is to hold down the [1] key and press the [ENTER] key until the calendar/clock re-appears on the display, then re-load the program.

READY *nnn* The terminal displays "READY" when it is available to process transactions,

where nnn = the number of transactions left to be stored in the terminal. For example, READY **3** would indicate that there is space for storage of 3

more transactions.

RECALL WHAT? Enter the memory location you wish to review.

RECEIVING The terminal is receiving a response from the host computer.

REPORTING? Y/N Enter "Y" to print the records in the Close Batch transaction, or "N" to

continue with the closing.

RE-PRINT Display indicating a reprint function was selected.

RETAIL TERMS Enter the 4-digit retail terms, then press [ENTER].

RETURN Display when initiating procedures to authorize a return/credit.

ROLL=2 SLIP=3 Enter "2" to select a roll printer, or "3" to select the slip Printer 150.

SALE Display when the [1] key is pressed to process a standard credit card sale

transaction. Wait for the next prompt.

SECURITY SET SALE? Y/N SET RETURN? Y/N SET AUTH? Y/N SET VOID? Y/N SET TICKET? Y/N SET DEP INQ? Y/N SET CLOSE?Y/N SET ITM REV? Y/N SET TOT REV? Y/N SET SETUP? Y/N SET PRINT? Y/N	Setup code 3 was entered enabling the operator to set security flags. Press [9] or [6] for "Y" or "N" responses. A "Y" response will require entry of the manager password to perform the selected transaction/function.
SERIAL # NOT FND	Response from the download host when the terminal serial number stored in location 001 does not match valid serial numbers for a download. Perform the Recall function [FUNC] [7] and check the serial number. Correct it if necessary.
SETUP	[FUNC] [4] was pressed for terminal set up.
SORT BY ID? Y/N	Enter "Y" to print a detail report by operator number and item number order, or "N" to print a detail report in item number order only.
STORE WHAT?	Enter the desired memory location (numbers 000 through 999) for storing data in the terminal.
SUCCESSFUL DL	The terminal has successfully completed the download. Press [CLEAR] to return to the idle prompt.
TELECHECK? Y/N	Check Setup prompt. Enter "Y" to select Telecheck authorization service.
TKT ONLY	The [5] key was pressed to dial for an ETC item. Wait for the next prompt.
TRANSMITTING	The terminal is communicating with the host computer.
UNDEFINED CARD	This prompt appears when a card that is not defined in the Account Range table is swiped through the cardreader.
UNREADABLE CARD	The terminal cannot read the card. Press [CLEAR] to return to the idle prompt.
UNSUCCESSFUL DL	The terminal was unable to complete the download. Press the [CLEAR] key and re-initiate the download.

UPDATE PASSWD ENTER NEW PASSWD VERIFY NEW PASSW

Setup code 4 was entered enabling the operator to update the manager password.

VOID

Display when the [VOID] key is pressed for voiding a transaction that was captured at the host. Wait for the next prompt.

WAITING FOR LINE

The terminal is waiting for the line to become available.

WAITING FOR PIN

The terminal is waiting for the PIN Pad to display the transaction total and for the customer to enter his PIN, then press [ENTER].

PIN Pad 101 Messages

ENTER PIN PUSH "ENTER"

The PIN Pad is prompting the customer to enter his/her PIN, then press [ENTER].

PROCESSING

The PIN Pad displays this message indicating that the terminal is processing data and communicating with the host.

TOT. \$99999.99

The PIN Pad displays the transaction amount.

THANK YOU

The PIN Pad displays this message at the end of a successful Debit transaction.

Appendix E. ZONTALK 2000 Download Parameters

The ZONTALK 2000 program simplifies the process of updating or completely re-programming your VeriFone terminal. Designed to run on an IBM PCTM, XTTM, ATTM or compatible, the ZONTALK 2000 program performs modem downloads to your terminals in the field or direct downloads to terminals physically connected via RS-232 cable to the computer's serial port.

To obtain a download of the FDR ETC PLUS Retail Debit application using the ZONTALK 2000 program, you must program the following memory locations with specific information. Refer to section 4 of this reference manual for an explanation of how to program the contents of a field location.

Location	Information to Enter		
000	Enter the phone number of a computer running the ZONTALK 2000 program		
001	Enter the serial number of the terminal.		
019	Enter the application ID (FEPDBTx). Call your customer service representative for the most current application ID.		
960	Enter the download speed. A "2" will enable the terminal to download at 1200 baud. A "1" will enable the terminal to download at 300 baud.		

When you receive a download, certain memory locations (parameters) will already have a default setting. These settings may be changed later through the terminal setup function or through manual programming of the terminal. The following list contains the parameters for the FDR ETC PLUS Retail Debit application. The list is organized in four columns containing a description of the contents, memory location, data type code, and the field length.

|--|

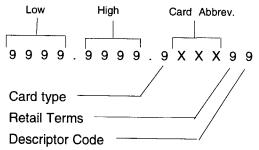
Codes	Description	Legal Character Set	
Α	Alphabet	[AZ, az, #, -, ., space]	
N	Numbers	[09]	
Χ	Alphanumeric	[space~]	
Р	Phone	[09, -, *, #,A,L,P,T,space]	
Q	Question	[Y,N]	
В	Binary	[0,1]	
1	IBM	[full IBM ASCII set]	

Memory Locations

.		Type/	Contents/
Description	Location	No. Chars	Comments
Download Phone Number	000	P(20)	
Download Date	004	N(6)	
Printer Type Flag	950	N(1)	2 <empty>=None</empty>
· · · · · · · · · · · · · · · · · · ·		, ,	2=Roll 3=Slip
Roll printer line feeds	951	N(1)	5
Download Speed	960	N(5)	2 (1=300, 2=1200)
Beep On/Off	009	B(1)	0
Dial Type	010	B(1)	0 (T=0 P=1)
Speed Dial Flag	011	N(1)	,
Telephone Line Test	014	N(1)	
Work. Key/Master key ptr	016	X(20)	000000000000000-1
RECALL Password	017	B(1)	
Device ID	058	X(4)	
Security Bit Map	059	B(11)	00000000010 (See Note 2)
Manager Password	060	N(6)	123123
Application Options Map	061	B(8)	00010001 (See Note 3)
Login String #0	020	X(60)	3-81636
I		Ì	
Login String #8	028	X(60)	
Header Line #1	465	X(26)	
Header Line #2	466	X(26)	
Header Line #3	467	X(26)	
Header Line #4	468	X(26)	
Header Line #5	469	X(26)	
Header Line #6	470	X(26)	
Cardholder Flex line	392	X(40)	I AGREE TO PAY ABOVE
			TOTAL AMOUNT
Cardholder Flex line	393	X(40)	ACCORDING TO CARD
			ISSUER AGREEMENT
Cardholder Flex line	394	X(40)	(MERCHANT AGREEMENT
		. ,	IF CREDIT VOUCHER)
Cardholder Flex line	395	X(40)	
Message line	396	X(40)	TOP COPY-MERCHANT
			BOTTOM COPY-CUSTOMER
Message line	397	X(40)	
1st Account Range	043	X(42)	See Note 1 for details
2nd Account Range	044	X(42)	
3rd Account Range	045	X(42)	
4th Account Range	046	X(42)	
5th Account Range	047	X(42)	
6th Account Range	048	X(42)	
7th Account Range	049	X(42)	
8th Account Range	050	X(42)	
9th Account Range	051	X(42)	
Accumulator Names	363	X(55)	(separate each name with "/")
			•

Description	Location	Type/ No. Chars	Contents/ Comments
Primary Phone#	052	P(30)	
Secondary Phone#	053	P(30)	
Merchant ID	054	X(32)	
Close Phone#	055	P(30)	
Close Redial Phone#	056	P(30)	
Fraud Control Flag	106	N(3)	
Fraud Control Flag	206	N(3)	
Fraud Control Flag	306	N(3)	
Fraud Control Flag	506	N(3)	
Fraud Control Flag	706	N(3)	
Primary Phone No.	800	P(24)	
Secondary Phone No.	801	P(24)	
Call Center Phone No.	802	P(24)	
Pick-Up Card Phone No.	803	P(24)	
Merchant ID	804	X(46)	
Message Format Flag	805	N(3)	
Fraud Control Flag	806	N(3)	
Transaction Ctl String	807	X(60)	
Transaction Prompt	808	X(16)	CHECK
Resp. Analysis Ctl Str	810	X(60)	
Auxiliary Ctl String	811	X(60)	
Cardswipe Default key (1-9)		N(1)	1
Primary Phone No.	700	P(32)	
Secondary Phone No.	701	P(32)	
Call Center Phone No.	702	P(32)	
Pick-Up Card Phone No.	703	P(32)	
Merchant ID	704	X(46)	
Message Format Flag	705	N(3)	
Fraud Control Flag Transaction Ctl String	706 707	N(3)	
Transaction Prompt	707 708	X(120)	EDEE KEV
Floor Limit	708 709	X(16) N(4)	FREE KEY
Resp. Analysis Ctl Str	709	X(120)	
Auxiliary Ctl String	711	X(120)	
, ,		()	

Note 1 Locations 043 to 051 contain the account range tables. Normal entries for all card types are as follows:



Acct Range #1 (043) = 4000.4999.1VIS00 Acct Range #2 (044) = 5000.5999.2MC 00 Acct Range #3 (045) = 3400.3799.3AMX00 Acct Range #4 (046) = 3000.3899.4DC 00 Acct Range #5 (047) = 6011.6011.5DIS00 Acct Range #6 (048) = 0000.0999.6FDR00 Acct Range #7 (049) - #9 (051) =<empty>

Note: The "." after the low and high fields are required to make the account ranging work properly.

Note 2 Location 059, Security Bit Map, contains the string for password protection on transactions and functions. A "1" indicates that the corresponding transaction is password protected. The following lists transactions and functions by position in the string, with an example setting:

Position	Transaction	Position	Transaction	
1	Sale	7	Close	
2	Return	8	Item Review	
3	Auth	9	Totals Review	
4	Void	10	Setup	
5	Ticket	11	Print [*]	
6	Dep Inquiry			

For example, a string "10000010000" in location 059 indicates that Sale and Close Batch functions are password protected.

Note 3 Location 061, Application Options Map, contains the string for terminal options settings where 0 = Off and 1 = On.

Position	Option
1	Invoice number
2	Operator ID
3	Phone order
4	Pre-print
5	Receipt
6	Auto Report
7	Auto-insert option
8	Debit option .

If you have any questions regarding these parameter settings, contact your VeriFone representative.

Glossary

AC Alternating Current - used as a primary source of power by power packs and power supplies. Account Number (1) A unique series or group of digits used to numerically identify each cardholder. (2) The unique identification number assigned to the account of a specific party, within a given institution. Alpha mode A means of allowing you to use the keypad to enter alphabetic characters. Alphanumeric Capable of utilizing both alphabetic and numeric characters such as a display panel or keypad or a computer keyboard. Application A software program designed with special codes stored in memory for a specific purpose or customer. Application ID Number The number identifying which application program is to be downloaded by the ZONTALK software from an IBM PC compatible computer. ASCII An abbreviation for American Standard Code for Information Interchange. This standard code is used for transmitting data and in composed of 128 characters in 7-bit binary format. Method of transmitting data in which the interval between characters may be Asynchronous of unequal length. Bar Code A printed code consisting of vertical lines of varying spacing and thicknesses used for identification purposes. These codes are read by drawing the tip of a bar code wand across it. Bar Code Wand A pencil or wand shaped optical scanner for reading bar codes. Batch File A file containing a series of transaction details to be processed as a single unit. Batch Header A unique heading or title that identifies a batch. Baud The signaling speed equal to the number of signal events per second. Buffer A temporary storage area. Byte A group of consecutive bits that make up a character or a logical unit or information. A byte usually consists of eight bits. Calendar/Clock Chip A terminal electronic component that keeps track of the date and time.

Cardreader	The slot on the terminal that automatically reads the magnetic stripe or bar code on the back of a specially encoded card.
Card Security or Fraud Control	Measures taken to prevent unauthorized use of encoded identification cards.
Carrier	A frequency signal or tone sent over the telephone or communication line and modulated by the modem to transmit/receive data.
CCITT	Committee Consultative International Telegraph and Telephone. International committee that sets standards for international data communications.
Character	A standard bit representation of a letter, number, punctuation, figure or other symbol used in a message or in a control function.
Code	Program text representing letters, digits and other data symbols with binary numbers, such as ASCII.
Control String	A series of terminal control language commands linked together to control the execution of a terminal operation.
Сору	To produce a replica of information, usually done to guard against loss or corruption of important records.
CPU	Central Processing Unit. The brain of the computer or terminal that controls either directly or indirectly every function and device associated with the computer/terminal.
Custom Application	An application created to meet the specialized needs of an individual company or institution.
Custom Prompt	A prompt, programmed by a user and stored in one of the terminal's general record memory locations.
Data	Information prepared in a particular format for use by the terminal or host computer for a specific transaction or operation.
Data Entry	The process of using a keyboard or other device to input data directly into a system.
Data Packets	A packet of information transmitted from one device to another.
Default	A value automatically assigned by the program when another value has not been specified.
Delete	To remove a record or item of data.
Diagnostics	The procedure for detecting and isolating a problem with the terminal or peripheral.

Dial-Up Line A regular public telephone line. The switching equipment on a dial-up line requires that a party dial the other party before a connection can be made.

Display The small screen on your terminal that displays prompts and messages to guide you through different operations and to alert you when errors or problems occur.

Download The process of transferring data from one device to another.

EPROM Erasable Programmable Read-Only Memory. A type of memory chip permanently stored in the terminal. Contains the standard application, operating system and fixed prompts.

File A collection of logically related records.

Header

Login

Firmware The basic instructions built into the terminal, stored in ROM and executed automatically.

Fraud Control Measures taken to prevent unauthorized use of a credit or debit card.

Handshaking The process of exchanging codes, or contol characters, between two devices. The codes are predetermined and establish a connection between both terminals.

Information and codes added to the beginning of user data, such as a transmission block or packet, which contains the destination, address, source address and message number.

Hookswitch The switch on a telephone instrument that operates when the handset is removed from its cradle.

Host Computer A central computer used to process transactions; also called a host.

Input To enter data into a processing system or peripheral device, or the data that is entered.

Idle Prompt The information shown on the display panel when the device is not performing any operations or transactions. Normally the date and time.

Keypad The key panel used for entering data and performing operations.

Leased-Line A private telephone line connected directly to another party.

Line Cord A telephone type cord with modular plugs for connecting a device to another device or outlet.

Password information for a particular organization that allows access to a system such as a public switched network (e.g., Telenet, Tymnet). The login also opens an accounting file for the session.

Login String A code consisting of a network code, user name and password used to login to a network. A fraud control measure used in transactions. Luhn Check-Digit Manual Transaction Transaction using account information entered from the keypad rather than automatic reading devices such as the card reader. The storage of codes and data in the circuitry of a terminal or computer or Memory other media such as magnetic disk or tape. Memory Dialing A method of automatically dialing telephone numbers stored in a device's memory rather than dialing by hand. Memory Location An exact storage location in the terminal's memory, identified by a three-digit location number. Messages Words and symbols appearing on the display panel which tell you the kind of information required, the result of a process or if an error has occurred. Modem Short for modulator/demodulator; a device that converts digital data to analog signals (for transmission over telephone wires) and analog signals back to digital data. Network An interconnected group of systems, terminals or data facilities that route numerous transactions and data to the proper terminals and host computers. Nonvolatile Memory Memory that retains its contents when power is turned off or lost. Packet A group of bits transmitted as a complete package on a packet-switched network. Often called a message. **Parameters** Information stored in memory that sets up the device for use with transactions and other operations. Password A confidential code used to gain access to terminal memory or a host computer. PC IBM PC or compatible personal computer used to download applications and data to the terminal. A PC can also be used as a local or remote host computer. Peripheral An attached device (e.g. a printer or PIN Pad), not the central processing device or computer; typically used for I/O. PIN Personal Identification Number. A four to 16 digit confidential code or electronic signature used by card holders to identify themselves as the

proper users of a credit or debit card to the host computer.

An interface device capable of attaching to a peripheral, computer, network Port or other electronic device. **POS Terminal** A terminal used at the point-of-sale (POS) that can process transactions and communicate transaction information with a larger remote computer directly or through a network. Post Dialing A feature that dials the host computer after all of the account and transaction information is entered into the terminal. A device that converts a voltage to a different level so it can be used by a Power Pack particular device. Printer A device used for imprinting records of a transaction on paper. A message appearing on the display panel telling you what action is required Prompt or what type of information to specify. Pulse Dialing A method of telephone dialing that specifies a phone number by the number of electrical pulses sent. A group of jobs or messages waiting for service. All insertions are made at Queue one end of the queue and all removals and accesses at the other. RAM Random access memory used to store custom applications and temporary data entered during a transaction. RECALL Procedure used to display data in a memory location. RECALL can also be used to add or change data. Record A collection of data handled together in transfers. Refund Refund transaction credits a customer's account with a refunded amount; the terms "refund" and "return" are used interchangeably. Remote Host Computer A host computer requiring connection to the transaction system via a dial-up or leased telephone line. Remote Host Network A network that connects the terminal to a remote host computer. Request Data Packet A request for information from a terminal to the host computer. Return A refund transaction which credits a customer's account with the refunded amount. Ringer A bell or alarm on a telephone that announces incoming calls.

A Personal Identification Number input device used for entering a private

identification code to validate a transaction.

PIN Pad

ROM Read only memory permanently stored in the device. Contains the standard

application program and operating system.

Scroll To move text across a display screen.

Select To initiate an action or enable a data path.

Serial Port An RS232 connector for communicating with download computers, other

terminals, and printers.

Start Up The sequence that occurs when the terminal is turned on (powered up).

This sequence includes turning on power and automatic downloading of

configuration data for an application.

STORE Procedure used to store data in a memory location.

String Constant A sequence of alphanumeric characters enclosed in single quotation marks;

for example--'SLIDE CARD' or '1989'.

Swipe The action of sliding a card through a terminal card reader.

System Password The password (1[ALPHA][ALPHA]66831)supplied with each TRANZ 330

terminal.

Telephone Jack Modular type sockets for connecting telephone line cords.

Telephone Line The standard telephone wiring connecting you to your local or private

telephone company.

Terminal A device used to initiate transactions. The transactions are processed by the

terminal itself or by a host computer. These devices have a display panel, keypad, and card reader, and are used to enter transaction information.

Terminal ID An identification number used by the download computer to determine what

data and application programs to send to an individual terminal or controller.

Terminal Parameters Parameter data related to a specific terminal.

Timeout A specified period of time in which the terminal stops processing or

undertakes a predetermined alternate action.

Tone Dialing Also called touch-tone dialing. A method of telephone dialing that uses

different pitched tones to specify a phone number.

Track 2 Data
Information stored on track 2 of the magnetic stripe that can be read by the

card reader.

Trunk Cable A cable to which all the components are connected.

The person who is using the terminal. User

A communications program for IBM PC compatible computers used to download applications from the computer to a terminal. ZONTALK 2000

A Accessories 8-1 Account range setup 5-2 tables 5-3 Acrylic stackers 1-1 Adapter, telephone 3-3, 8-1 Alphabetic characters 3-4, 4-3 Application version 3-3, 5-1 Auth Only transaction 6-9	D Debit Return 6-7 Debit Sale 6-3 Demo approvals 4-5 Display C-1 Display panel 3-3 troubleshooting C-5 E EPROM version 3-3
B Batch "FULL" indicator 6-1 clear 5-6 close 6-14 C Cables, printer 8-1 Calendar/clock 4-2 Card reader 3-3 Card Type setup 5-7 Check guarantee 6-13 Check guarantee setup 5-5 Close Batch 6-14 Connection power 3-2 telephone 3-3 Controller connection C-2 Credit Return 6-5 Credit Sale 6-1	F Features and benefits 2-1 Field change 4-1 emptying 4-2 review 4-1 Fraud control 4-4 Functions summary 2-2 G Grommet C-2 H Hardware features 3-3 Host Setup 5-1 I Idle prompt 5-6, C-4 Inquiry 6-12 Item Review 7-1

K Key covers 8-1 Keypad 3-4, C-2 clearing entry C-5 manual entry C-4 troubleshooting C-6	startup C-4 troubleshooting C-5 unpacking C-2 Plates 8-1 Power connection 3-2 Power packs 8-1 Print
Magnetic stripe 3-3 Memory locations 5-7 Mounting countertop C-4 wall C-3 MRA (Merchant Return Authorization) C-5 MRA desk C-5 O Options setup 5-4 Overlays 8-1	batch details 7-4 last receipt 7-4 operator totals 7-4 options 7-4 terminal totals 7-4 Printer type setup 5-5 Printers 1-1 Processing display C-5 PROGRAMING ERROR, eliminating 4-4 Programming, general 4-1 Public port 5-1
P Password update 5-4 PIN (Personal Identification Number) entry C-5 PIN Pad cleaning C-5 components C-1 display characteristics C-1 keypad C-4 mounting C-3 selecting location C-2 service/return C-5	Return/credit 6-5, 6-7 Review item 7-1 programming 5-7 totals 7-3 S Security setup 5-3 Setup codes 5-1 Software version 1-1 Stackers, acrylic 1-1, 8-1 Startup C-4

```
T
Terminal
   choosing location 3-2
    copying 4-3
    damage 3-1
   dimensions 3-7
   functions 7-1
   installation 3-2
   programming 5-1
   specifications 3-7
   troubleshooting 3-6
   unpacking 3-1
Ticket Only 6-11
Transaction
   storage 6-1
   summary 2-2
TranzFone 8-1
U
Unpacking
   PIN Pad 101 C-2
    terminal 3-1
Void transaction 6-10
Warranty service 3-6, 8-1
Wedges 8-1
Weight, shipping 3-7
```