SINGLE-CASSETTE CASH DISPENSER

(MODELS 9600/9601/9620/9621)

INSTALLATION AND SERVICE MANUAL

Version 4.1

TDN 07103-00034 03/00

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FCC COMPLIANCE

Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note:

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

CANADIAN EMISSION REQUIREMENTS

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la Class A prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

AUSTRALIAN EMISSION REQUIREMENTS

Warning:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

NOTICE:

The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

NOTICE:

The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

AVIS:

L'étiquette d'Industrie Canada identific le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de 1'entreprise locale de télécommunication. Le maté-riel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la comformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à I'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'fl y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales. Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à an service d'inspection des installations électriques, ou à un électricien, selon le cas.

AVIS:

L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent étre raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'exède pas 5.

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SECTION 1
INTRODUCTION

SECTION 1 - INTRODUCTION

WHAT'S IN THIS MANUAL

This manual contains important information you will need to install and maintain your Triton Systems Cash Dispenser (Models 9600/9601/9620/9621). Additional information pertaining to the operation of your Cash Dispenser is included in the Single-Cassette Cash Dispenser Operation Manual (Models 9600/9601/9620/9621).

SECTION 2 - Installation and Setup contains information and procedures that will assist service and installation personnel that install and setup a Single-Cassette Cash Dispenser. This section includes information about site selection and preparation, power and communication requirements and terminal setup procedures.

SECTION 3 - Troubleshooting provides a brief description of the major components that make up the Cash Dispenser. It describes step-by-step fault isolation and repair procedures to assist service personnel in maintaining the Cash Dispenser. It contains information about error codes and suggested courses of action to repair the Cash Dispenser. In addition, this section provides detailed procedures that describe how to remove and replace each of the field replaceable components that comprise the Cash Dispenser.

APPENDIX A consists of the Technical Specifications for the Single-Cassette Cash Dispenser models covered in this manual.

APPENDIX B provides a list of part numbers and descriptions for all field replaceable components for Single-Cassette Cash Dispensers.

APPENDIX C contains procedures for changing the combination of the manual-type combination lock.

APPENDIX D contains procedures for changing the combination of the electronic combination lock.

APPENDIX E contains procedures for changing the Cash Dispenser's EPROM access code.

APPENDIX F contains procedures for loading terminal operating software into the Cash Dispenser.

APPENDIX G contains warranty and repair policies and procedures.

SECTION 1 - INTRODUCTION

WARNINGS, CAUTIONS AND NOTES

Warnings, cautions, and notes provide information which you need to consider.

A WARNING indicates that a certain action can potentially give you an electrical shock.

A CAUTION indicates that a defined action may cause damage to the Cash Dispenser or one of its components.

A NOTE can influence your decision on how to respond to the information in the section you are currently reading.

SECTION 2
INSTALLATION AND SETUP

SECTION 2 - INSTALLATION AND SETUP

UNPACKING THE CASH DISPENSER

****IMPORTANT****

The Cash Dispenser is designed for **indoor use only**!

1. Carefully inspect the unit for any shipping damage and report any damage immediately to the shipping company. Refer to the Warranty Information in Appendix G for more information about reporting shipping damage.

2. Remove the unit from the carton by cutting the straps and removing the top of the box.

3. Remove the loose packing material from inside of the box.

4. Remove the silver key from the white plastic bag attached to the Cash Dispenser wrapping.

5. Stand the unit up.

6. "Walk" the unit out of the carton and remove the protective plastic bag.

7. Use the silver-colored key to open both the Control Panel and the Fascia Door on the front of the cabinet (which conceals the locking mechanism).

****NOTE****

The top enclosure access door is provided with a pneumatic piston to prevent the door from extending too far when opening and from being closed too quickly. In the unlikely event of the pneumatic piston not functioning properly, the door should be prevented from opening too far and from being slammed when closing.

8. Turn the handle on the locking mechanism to open the front enclosure door.

9. Remove the accessory kit from inside the bottom enclosure and open and inspect the contents. Check the contents against the enclosed packing list. Report any missing parts to Triton immediately.

SECTION 2 - INSTALLATION AND SETUP

The unit was shipped with the combination lock unlocked. If it has become locked, a manual lock can be unlocked by turning the dial at least four complete revolutions counter-clockwise (to the left), stopping on 50 at the main (opening) index. Then turn the dial counter-clockwise to retract the bolt. (Enter 123456 if the cabinet has an electronic lock.) Turn the dial clockwise (to the right) until it stops (approximately 90 degrees) to unlock the door and rotate the "T" handle to open the door.

SECURING THE CASH DISPENSER TO THE FLOOR

****IMPORTANT****

To ensure the stability and security of the Cash Dispenser, the **unit must be secured to the mounting surface**!

1. "Walk" the Cash Dispenser to the location where it will be installed. Locate the four anchor bolt holes in the bottom the cabinet. Mark the location of the four holes on the floor as guides for the holes that will be used for the anchor bolts (supplied by the installer) that secure the cabinet.

2. Move the Cash Dispenser away from the installation location. Use a half-inch drill bit to drill four holes at least 2 inches deep into the floor. Refer to Appendix A, Cash Dispenser Specifications, for mounting bolt patterns applicable to each model Cash Dispenser.

****CAUTION****

The Cash Dispenser is prone to tipping over if the cash dispenser tray is extended when the unit is not secured to the floor!

3. Return the Cash Dispenser to the installation location and align the base over the four holes. Place the four anchor bolts through the cabinet base into the holes in the floor. Sleeve anchors (1/2 inch by 4 1/4 inches) are recommended to attach the unit to the floor. Tap the four anchor bolts into the concrete.

4. Use a carpenter's level to make sure that the cabinet is level front to back and side to side. The four leveling bolts in the bottom of the cabinet can be adjusted with an adjustable wrench.

5. Attach the four nuts to the anchor bolts and tighten firmly.

SECTION 2 - INSTALLATION AND SETUP

INSTALLING THE DISPENSING MECHANISM

****CAUTION****

Be certain that you have not applied power to the Cash Dispenser before you continue!

Figure 2-1. The Model 9600/9620 Cassette Tray pulled out to its fully extended position.

1. Verify that the power switch located inside the top of the cabinet is in the OFF ("0") position. Remove the packing material from the ends of the cables that are hanging inside the cabinet.

2. Unpack and remove the Cash Dispenser mechanism from its shipping container.

3. Pull the cassette tray out to its fully extended position as shown in Figure 2-1.

4. Pick up the dispensing mechanism and place it on the cassette tray. Leave enough room to easily access the back of the dispensing mechanism so it can be connected to the cables coming from the Cash Dispenser.

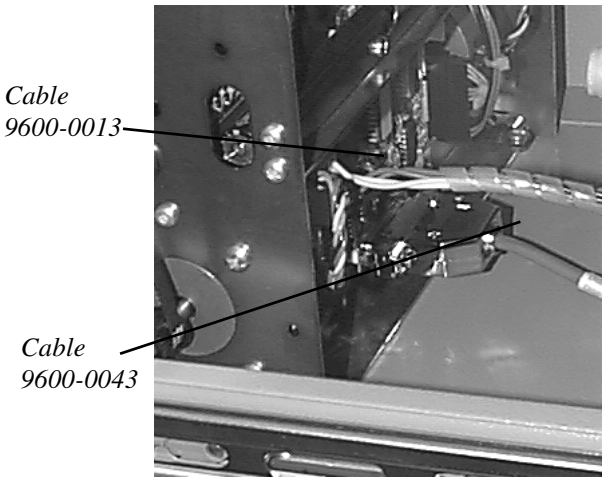


Figure 2-2. Connect cables 9600-0013 and 9600-0043 as shown to the left

5. Refer to Figure 2-2. Connect cable 9600-0043 to the DB25 connector (PL6) on the rear the dispenser mechanism. Secure the DB25 cable to the dispenser with two screws attached to the connector. Insert the Molex power plug attached to cable 9600-0013 into the connector marked PL2. This plug is keyed so that it can only be inserted in one direction.

6. Install the dispensing mechanism by sliding the end with the circuit board into the tray in the cabinet. The mechanism should slide under two tabs in the rear, and the front edge slots should align with the two bolts provided with wing nuts. Once the mechanism is fully engaged into the tray tighten the wing nuts by hand.

SECTION 2 - INSTALLATION AND SETUP

COMPLETING THE PHYSICAL INSTALLATION

1 . The Cash Dispenser is quite tolerant of power line variations, primarily because of its built-in surge suppressor. However, AC power for the terminal should come from a dedicated source with an isolated ground. Route the AC power cord and the phone cord out through the hole in the back of the cabinet and install the split ring grommet into the hole.

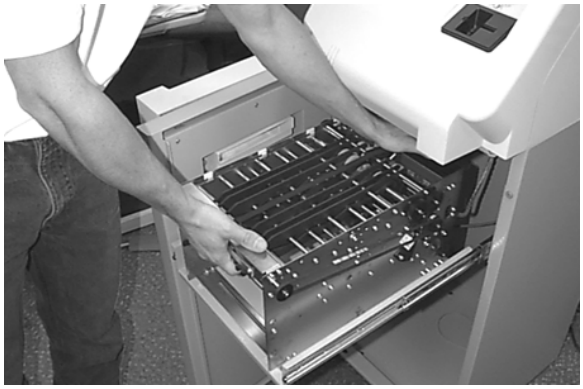


Figure 2-3. Installing the Dispensing Mechanism.

POWER SUPPLY CORD - SPECIFICATIONS

For European applications, the power supply cord must conform to the following specifications:

1.) Two-conductor with Physical Earth (PE) ground.
2.) IEC 320 molded connector on one end and molded plug on the other end.
3.) Certified for country of installation.
4.) Rated minimum H05VV-F with minimum 0.75 mm^2 (except where specfic countries require 1.0 mm^2) conductors.
5.) Maximum length: 3 meters.

Connect the AC input plug to the wall outlet. (See Note, below)

****NOTE****

The AC socket-outlet shall be installed near the equipment and shall be easily accessible.

****NOTE****

The Cash Dispenser is designed to work on an IT (Isolated Terra)-type power system having a phase-to-phase voltage not exceeding 240 volts.

SECTION 2 - INSTALLATION AND SETUP

Connect the phone cord into the wall mounted modular phone jack. The phone line used for the Cash Dispenser should not be shared with any other device.

2. Install the lamp in the Sign Housing by removing the two screws that secure the front of the Sign Housing to its rear panel. Plug the 9-watt florescent tube (included in the accessory kit) into its socket. Install the front of the Sign Housing and secure it in place with the two screws. Plug the AC power cord coming from the Sign Housing into the AC outlet on the power supply.

3. Turn the power switch located inside the top of the cabinet to ON ("I"). Verify the lamp inside the Sign Housing is illuminated.

4. Load the receipt printer with paper making sure that the receipt paper roll feeds from the **top of the roll**. Once the end of the paper is inserted into the printer it will automatically feed to the output. Close the Control Panel.

5. Install currency in the cassette and insert and it into the dispensing mechanism. Refer to Section 4 of the Single-Cassette Cash Dispenser Operation Manual for detailed information about handling cassettes.

****CAUTION****

Make sure the cassette is primed and the window below the lock displays green before installing the cassette. Attempting to install an unprimed cassette into a dispensing mechanism may damage the cassette and void its warranty.

6. Press and hold down the <BLUE> key; while holding down the <BLUE> key, press the <1> key. Release both keys. A menu is displayed that allows you to select customer or management functions. Select management functions by pressing the uppermost right function key on the keypad. Now enter the factory default master password of "123456" to enter the management mode. Select the DIAGNOSTICS FUNCTIONS from the menu and perform the diagnostic functions as outlined below.

SECTION 2 - INSTALLATION AND SETUP

TEST DISPENSE

The test dispense command instructs the dispenser to dispense one note into the reject area of the cassette. This test exercises the dispenser except that no bills actually leave the mechanism. This command returns three data bytes. The first byte is the error byte from the dispenser as outlined in Section 3 of this manual and it should be 20. The second byte is the number of bills sent out of the exit plus 20 and it should be 20. The third byte is the number of bills sent to the reject tray plus 20, which should be 21. If any of these numbers is an incorrect value, follow the instructions as outlined in the Section 3 of this manual. Press the Cancel key to return to the diagnostics menu.

TEST RECEIPT PRINTER

This command will print out two lines of text 42 characters wide, including additional information describing the terminal setup. If nothing prints, if only parts of each line print, or if the paper is not cut, refer to Section 3 of this manual for printer troubleshooting and repair guidance. Press the Cancel key to return to the diagnostics menu.

RESET/TEST MODEM

This test confirms that the CPU Module can communicate with the modem and that the modem can be configured. If this test fails consult Section 3 of this manual for troubleshooting and repair guidance. Press the Cancel key to return to the diagnostics menu. This test does not test the phone line into the unit. There is a phone jack on the front panel of the Modem/LCD Module that can be used for testing the phone line into the unit. To check the phone line, plug a phone into this jack and lift the receiver and listen for a dial tone. Dial a local number and listen for excessive noise on the line. This simple test can help determine if the phone line is acceptable.

CONFIGURING THE TERMINAL FOR OPERATION

As a minimum, the following parameters must be configured before the Terminal can complete a live transaction:

Terminal ID Number	Multiple Amount	Host Phone Number
PIN Master Key	PIN Working Key	Fast Cash Amounts

The table on the next page, Single-Cassette Cash Dispenser Setup Parameters, lists all of the configurable parameters accessible through the Management Functions. Page references are provided to help quickly locate the description and applicable setup instructions for each parameter.

SECTION 2 - INSTALLATION AND SETUP

SINGLE-CASSETTE CASH DISPENSER SETUP PARAMETERS							
FUNCTION/PARAMETER		FACTORY DEFAULT	PAGE NO.	FUNCTION/PARAMETER		FACTORY DEFAULT	PAGE NO.
CLOSE				36	EXTENDED AMOUNT	DISABLED	2-79
1	SCHEDULE CLOSE	OFF	2-15	37	FAST CASH AMOUNT	*	2-80
2	CHANGE SCHEDULE	*	2-16	38	ENTER MAC MASTER KEY	*	2-82
3	SEND TERMINAL TOTALS	OFF	2-20	39	ENTER PIN MASTER KEY	*	2-84
4	ENTER QTY. IN CASSETTE	0	2-21	40	INJECT MASTER KEYS	*	2-86
LANGUAGE / IDIOMA				41	ENTER MAC WORKING KEY	*	2-87
5	ENGLISH/INGLES	*	2-34	42	ENTER PIN WORKING KEY	*	2-89
6	SPANISH/ESPANOL	*	2-35	43	DOWNLOAD WORKING KEYS	*	2-91
7	ENABLE/DISABLE CUST. OPTION	DISABLED	2-36	43	PRIMARY NUMBER (TELEPHONE)	NONE	2-93
PASSWORD MAINTENANCE				44	BACKUP NUMBER (TELEPHONE)	NONE	2-94
8	MASTER PASSWORD	123456	2-42	45	DATAPAK ACCESS CODE	NONE	2-95
9	ADMINISTRATION PASSWORD	987654	2-43	45	PREDIAL ON/OFF	OFF	2-96
PRINTER SETTINGS				46	COMPUSERVE ID	*	2-97
10	SET PRINT LENGTH	35	2-46	47	DIAL MODE	DTMF	2-99
11	LOW RECEIPT PAPER	OFF	2-47	48	DIAL RATE	FAST	2-100
12	PRINTER GRAPHICS	ENABLED	2-48	49	BAUD RATE	1200	2-101
RANDOM / LEVEL PRIZE COUPONS				50	MODEM SETUP STRING	*	2-102
13	ENTER LEVEL PRIZE MESSAGE	*	2-50	MORE TERMINAL PARAMETERS			
14	ENTER RANDOM PRIZE MESSAGE.	*	2-51	51	ADJUST VOLUME/CONTRAST	*	2-105
15	ENABLE/DISABLE COUPON AWARD	DISABLED	2-52	52	RECEIPT OPTION	DISABLED	2-106
16	SET LEVEL PRIZE AMOUNT	$0.00	2-53	53	PRIMARY NUMBER (TRITON CONNECT)	NONE	2-108
17	SET RANDOM WINNING %	0%	2-54	54	BACKUP NUMBER (TRITON CONNECT)	NONE	2-109
CHANGE MESSAGES				55	PRIMARY ALARM NUMBER	NONE	2-110
18	MARKETING MESSAGE	*	2-56	56	BACKUP ALARM NUMBER	NONE	2-112
19	SURCHARGE MESSAGES	*	2-57	57	ENABLE/DISABLE CALLBACK	ENABLED	2-113
20	WELCOME MESSAGE	*	2-59	58	ENABLE/DISABLE TRITON CONNECT	DISABLED	2-114
21	SURCHARGE OWNER	*	2-60	59	STATUS MONITORING	DISABLED	2-116
22	EXIT MESSAGE	*	2-61	60	HEARTBEAT MESSAGE	*	2-117
23	STORE MESSAGE	*	2-62	61	AD SCREENS	ENABLED	2-120
24	TERMINAL OWNER	*	2-63	62	ENABLE/DISABLE COMMUNI-CATION HEADER	DISABLED	2-121
SET TERMINAL PARAMETERS				63	CHANGE COMMUNICATION HEADER	*	2-121
25	SET TERMINAL #	NONE	2-65	64	ALARM THRESHOLDS ON/OFF	OFF	2-123
26	SURCHARGE PERCENT	0%	2-68	65	SET LOW CASH THRESHOLD	*	2-124
27	LESSER/GREATER SELECTION	LESSER	2-68	66	SET JOURNAL THRESHOLD	*	2-125
28	ENABLE/DISABLE SURCHARGE	DISABLED	2-69	67	SET SCHEDULED JOURNAL	*	2-126
29	SURCHARGE LOCATION	BEGINNING	2-70	68	VIEW/MODIFY OPTIONS	*	2-127
30	BLOCK ISO'S	NONE	2-71	TERMINAL CONFIGURATION			
31	SURCHARGE AMOUNT	$0.00	2-73	69	SET DATE FORMAT	MM/DD/YY	2-132
32	LOW CURRENCY	ENABLED	2-75	70	SET DATE	N/A	2-133
33	INTERNATIONAL CURRENCY	*	2-76	71	SET TIME	N/A	2-134
34	MAXIMUM AMOUNT	$500.00	2-77	72	TRANSACTION TYPES	ON	2-136
35	MULTIPLE AMOUNT	$0.00	2-78	73	ACCOUNT TYPES	ON	2-137
*REFER TO MANAGEMENT FUNCTION DESCRIPTION FOR INFORMATION ON THE FACTORY DEFAULTS FOR THESE FUNCTIONS.							

SECTION 2 - INSTALLATION AND SETUP

Review the table and make the necessary changes and updates as needed to ensure the terminal is completely setup, customized for its intended application, and ready to operate.

SETTING THE COMBINATION LOCK

The manual and electronic combination locks are set to "factory default values" that are well known to anyone that has ever installed a Triton Systems Cash Dispenser. For obvious security reasons, the combination must be changed to new numbers that are only known by persons requiring access to the Security Container. Unless the Terminal is replenished by an armored car service, installation and service personnel must insure that appropriate persons at the installation site are able to successfully change the combination to a new set of numbers before they leave the site.

Detailed procedures for changing the combination of a mechanical lock are given in Appendix C. Instructions for electronic locks are provided in Appendix D.

THE USER CONFIGURABLE EPROM ACCESS CODE

The user configurable EPROM access code provides greater security for the Cash Dispenser. This feature will allow each distributor to select their own unique EPROM access code for each terminal they sell or service. Installation and service personnel must change the EPROM Access Code to the distributor's code before leaving the installation site.

NOTE: If the incorrect access code is entered into the keypad, the word "CHALLENGE, followed by a six-digit number is displayed in the lower right-hand corner of the display. Disregard this screen at this time and enter the factory default access code "123456". If the code is entered correctly, the display will change to the miniATM MAIN MENU screen. If the miniATM MAIN MENU is not displayed, go to APPENDIX E for additional information about working with the EPROM Access Code.

All Cash Dispenser Memory Modules ship from Triton Systems, Inc. with the "default" EPROM access code of "123456". Installation and service personnel must change the default access code to a new six-digit number when installing a terminal or changing the Memory Module.

CHANGING THE EPROM ACCESS CODE

Use this procedure for new installations and memory module changes.

A. Access the EPROM functions by resetting the terminal or turning on AC power while depressing the "#1" key on the keypad.

SECTION 2 - INSTALLATION AND SETUP

B. When the screen "PLEASE ENTER THE SIX-DIGIT EPROM ACCESS CODE" is displayed, enter the factory default access code "123456". Entering this code will display the "miniATM MAIN MENU."

C. Select option number "4" - "CHANGE EPROM ACCESS CODE" from the "miniATM MAIN MENU." The display will prompt you to "PLEASE ENTER THE SIX-DIGIT EPROM ACCESS CODE." Enter the factory default access code "123456."

D. The next screen will prompt you to "PLEASE ENTER THE NEW EPROM ACCESS CODE." Enter your new six-digit access code at this time.

E. The next screen will prompt you to "PLEASE CONFIRM THE NEW EPROM ACCESS CODE". Enter the same six-digit as entered in Step D.

NOTE

If the EPROM access code entered in Step E above does not match the code entered in Step D, the message "PLEASE ENTER THE NEW EPROM ACCESS CODE" will be displayed. The new access code must be entered identically two times to be accepted by the terminal.

F. If the new EPROM Access Code is entered identically in Steps D and E, the display will switch to the "miniATM MAIN MENU" display indicating the new EPROM Access Code has been accepted by the terminal.

ACCESSING THE MANAGEMENT FUNCTIONS MENU

1) Press the <BLUE> key; while holding down the <BLUE> key, press the <1> key. Release both keys. After a moment, the Top menu will be displayed.
2.) At the Top Menu (see figure 2-4), select MANAGEMENT FUNCTIONS.
3.) Enter the MASTER or ADMINISTRATION password at the Password Entry display (see figure 2-5). The factory default MASTER PASSWORD is '123456'. The factory default ADMINISTRATION PASSWORD is '987654'.

When a valid password is entered, the MANAGEMENT FUNCTIONS menu (see figure 2-6) will be displayed.

Once you have entered the MANAGEMENT FUNCTIONS Menu you may perform any of the functions allowed by the type of password used. The ADMINISTRATION password allows access to a limited group of functions such as CLOSE, DIAGNOSTICS, etc.

SECTION 2 - INSTALLATION AND SETUP

Figure 2-4. The PASSWORD entry screen.

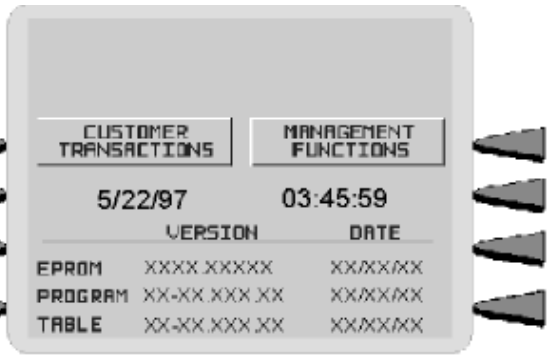


Figure 2-5. The TOP MENU Screen.

The MASTER PASSWORD allows access to all functions performed with the ADMINISTRATION password plus access to the Cash Dispenser configuration functions.

Each MANAGEMENT FUNCTION description will include the function name, instructions for accessing the function, a factory default value (if applicable) and any error conditions associated with the use of the function.

FUNCTION AVAILABILITY

Some function screens or options described on the following pages may be present but not accessible on your Cash Dispenser. In these cases when you attempt to access the function you will receive a message informing you that the feature or hardware required to support it is not available.

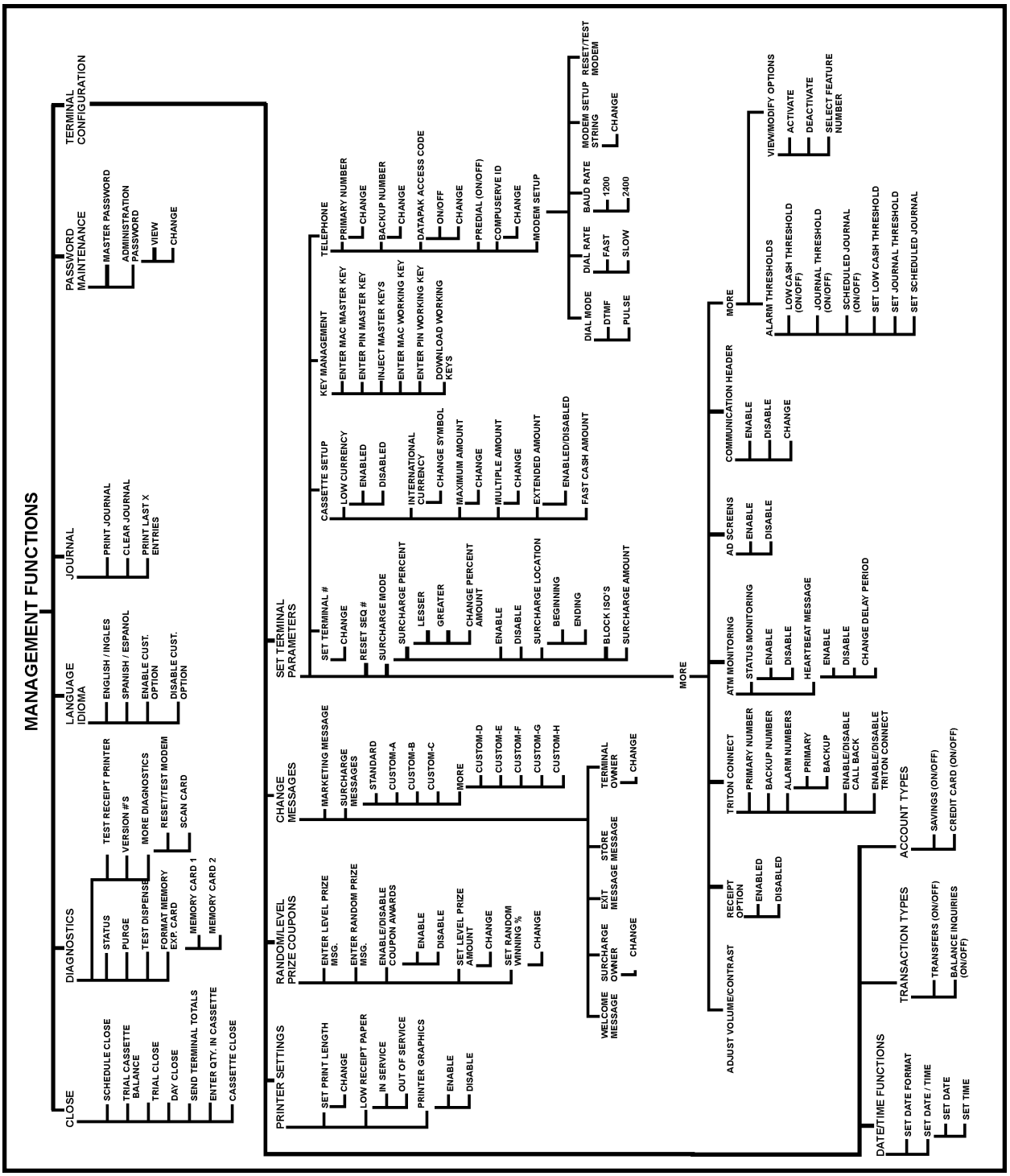
In other cases a function screen or option described here may not even be present in the Management Functions for your particular Cash Dispenser. In such cases this is because the function is not available in the version of terminal operating software currently loaded in the unit.

You may also notice that the factory default values for some functions on your terminal may differ from the values shown in this manual. Again, this is because versions of the terminal operating software customized for a particular processor may require non-standard default values for some parameters.

MANAGEMENT FUNCTIONS CHART

The chart on the next page shows the organization of the various Management Functions. You can use this chart to quickly navigate to a particular function, or simply to see how functions are grouped and related together at different “levels” of the menu structure.

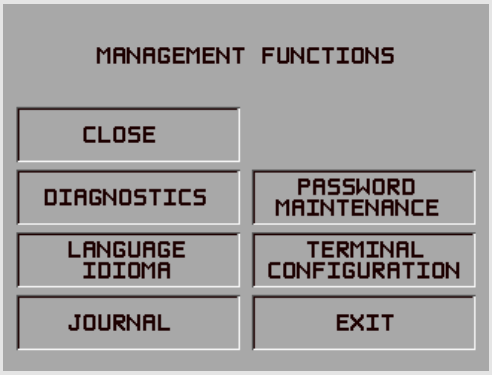
SECTION 2 - INSTALLATION AND SETUP



Management Functions Chart

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: MANAGEMENT FUNCTIONS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

Select the MANAGEMENT FUNCTIONS option from the Top Menu.

DESCRIPTION:

The MANAGEMENT FUNCTIONS menu allows the terminal operator to access the following functions:

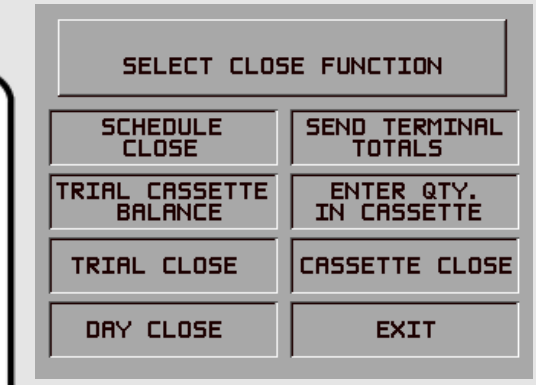
1.) CLOSE
2.) DIAGNOSTICS
3.) LANGUAGE/IDIOMA
4.) JOURNAL
5.) PASSWORD MAINTENANCE
6.) TERMINAL CONFIGURATION

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: CLOSE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

Select the CLOSE option from the MANAGEMENT FUNCTIONS screen to view the options available from the SELECT CLOSE FUNCTION menu.

DESCRIPTION:

The SELECT CLOSE FUNCTION menu allows the terminal operator to perform the following functions:

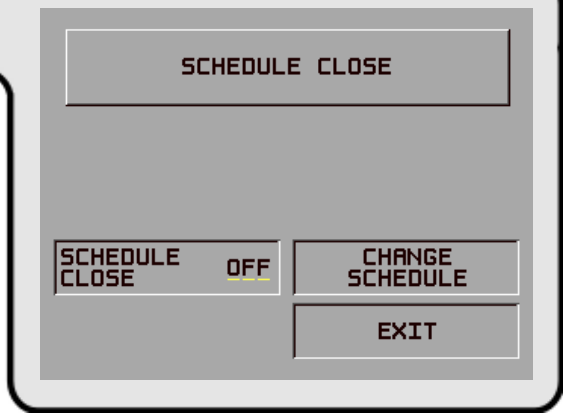
1.) SCHEDULE CLOSE
2.) TRIAL CASSETTE BALANCE
3.) TRIAL CLOSE
4.) DAY CLOSE
5.) SEND TERMINAL TOTALS
6.) ENTER QTY. IN CASSETTE
7.) CASSETTE CLOSE

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SCHEDULE CLOSE



FACTORY DEFAULT: OFF

ACCESS INSTRUCTIONS:

1.) Select CLOSE from the MANAGEMENT FUNCTION screen.
2.) Select SCHEDULE CLOSE.

DESCRIPTION:

This function allows you to turn on or off the SCHEDULE CLOSE feature. It also provides access to the CHANGE SCHEDULE function, which allows you to specify the time of day when a CLOSE process will be automatically initiated (if the SCHEDULE CLOSE feature is turned ON). When the feature is turned OFF, the close procedure must be initiated manually.

The current state of the SCHEDULE CLOSE feature is shown as either ON or OFF in the label on the left-hand side of the display. Press the button next to this label to toggle the state of the feature between ON and OFF.

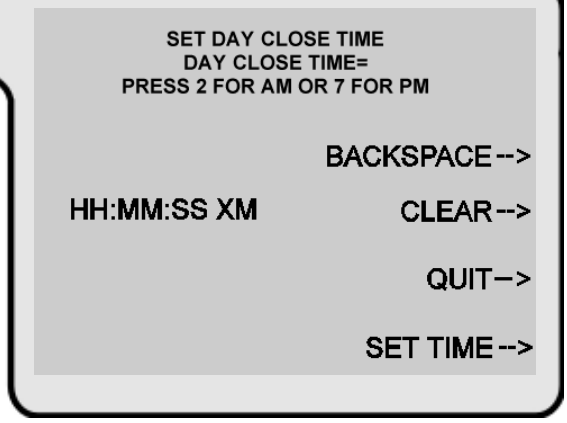
NOTE: The close information will be written to the Electronic Journal, allowing it to be printed out, or retrieved by a remote computer equipped with Triton Connect software (version 3.0 or later). Day Close reports initiated by this function will not be printed by the receipt printer.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: CHANGE SCHEDULE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select CLOSE from the MANAGEMENT FUNCTION screen.
2.) Select SCHEDULE CLOSE.
3.) Select CHANGE SCHEDULE.

DESCRIPTION:

This function is used to set the time, in hours and minutes, at which the terminal will automatically initiate contact with the processor and perform a close operation. The time is entered in the form 'HH:MM:SS' (hours, minutes, seconds). Do not enter the ':' characters separating the fields, just the fields themselves. Press CLEAR to erase everything and start over. Press the BACKSPACE key to back up and erase a single character. Press QUIT to escape without doing anything. Press SET TIME to load the entered time into the clock.

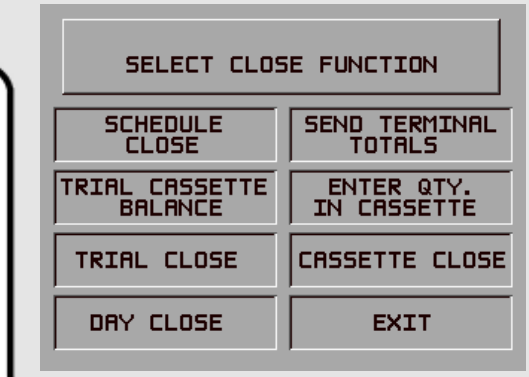
The Cash Dispenser will not let you enter an invalid number for hours or minutes. The clock will properly handle the rollover to the year 2000.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: TRIAL CASSETTE BALANCE



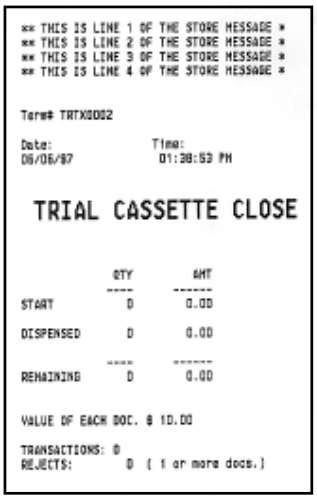
FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select CLOSE from the MANAGEMENT FUNCTION screen.
2.) Select TRIAL CASSETTE BALANCE.

DESCRIPTION:

Selecting this function prints a receipt summarizing activity on the cassette since the last CASSETTE CLOSE was performed. The totals are not cleared (set to zero) or reported to the host during a trial cassette close.


** THIS IS LINE 1 OF THE STORE MESSAGE *
** THIS IS LINE 2 OF THE STORE MESSAGE *
** THIS IS LINE 3 OF THE STORE MESSAGE *
** THIS IS LINE 4 OF THE STORE MESSAGE *

Term# TRTX0002

Date: 06/06/97 Time: 01:38:53 PM

TRIAL CASSETTE CLOSE

	QTY	AMT
START	0	0.00
DISPENSED	0	0.00
REMAINING	0	0.00

VALUE OF EACH DOC. $ 10.00

TRANSACTIONS: 0
REJECTS: 0 (1 or more docs.)

Sample TRIAL CASSETTE CLOSE receipt.

The following information is provided:

1.) START. Includes the starting quantity of notes in the cassette, and the total value of this quantity.

2.) DISPENSED. Shows the number of notes that have been dispensed and the value of this quantity of notes.

3.) REMAINING. Shows the number of notes remaining in the cassette, and the total value of these notes.

4.) VALUE OF EACH DOC. The denomination of the notes in the cassette.

5.) TRANSACTIONS. The number of transactions that have occurred since the last.

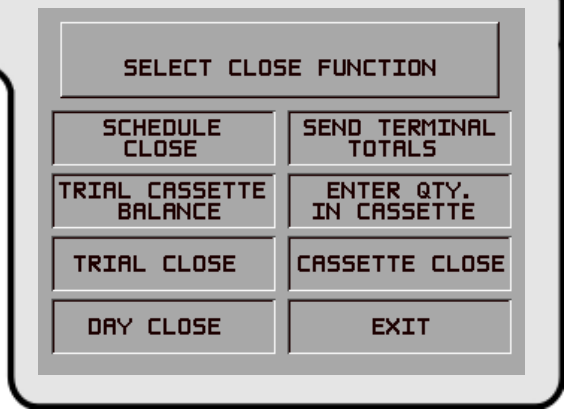
6.) REJECTS. The number of reject events. Rejects can involve more than a single note per event.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: TRIAL CLOSE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select CLOSE from the MANAGEMENT FUNCTIONS screen.
2.) Select TRIAL CLOSE.

DESCRIPTION:

The TRIAL CLOSE function is used during the daily close procedure. It does the same thing as DAY CLOSE, except that the totals are not cleared.

The report printed by the TRIAL CLOSE is used to balance your Cash Dispenser before you actually balance with your processor. It contains information obtained from the processor and information that is obtained from the terminal itself.

Typically, you would do a TRIAL CLOSE to get the totals from the Cash Dispenser.

```
** THIS IS LINE 1 OF THE STORE MESSAGE *
** THIS IS LINE 2 OF THE STORE MESSAGE *
** THIS IS LINE 3 OF THE STORE MESSAGE *
** THIS IS LINE 4 OF THE STORE MESSAGE *

TermN 123456

Date:                Time:
07/01/97             04:53:15 PM

        TRIAL DAY CLOSE

    ***HOST TOTALS NOT RECEIVED***

                HOST      TERMINAL
              ------      --------
Withdrawals                    0
Inquiries                      0
Transfers                      0

SETTLEMENT $                0.00
```

Sample TRIAL DAY CLOSE receipt.

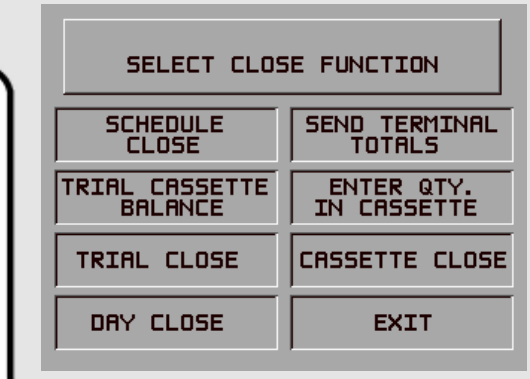
The report shows the total number of customer transactions (Withdrawals, Inquiries and Transfers) recorded by the host processor and the terminal since the last Day Close was performed. The two-column format allows the host and terminal totals in each category to be easily compared. The 'Settlement $' value is the host processor's record of the total currency dispensed from the terminal since the last Day Close was performed.

ERROR CONDITIONS:

A call to the processor host computer is required to complete the operation. If the call to the host is not completed successfully, a warning (***HOST TOTALS NOT RECEIVED***) will be printed on the report.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: DAY CLOSE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select CLOSE from the MANAGEMENT FUNCTIONS screen.
2.) Select DAY CLOSE.

DESCRIPTION:

The DAY CLOSE Function is used to complete daily balancing of the Cash Dispenser with the processor. The DAY CLOSE is performed to clear the totals and switch to the next business day. This function prints a report summarizing all of the activity done by the Cash Dispenser since the last DAY CLOSE was completed. The information includes a total of all transactions.

This function also calls your host processor's computer and commands it to download the totals it has accumulated for the current business day.

The DAY CLOSE is normally completed as the final step in the daily balancing process. The DAY CLOSE report is printed to the receipt printer. The TRIAL CLOSE function does the same thing as the DAY CLOSE, except that the totals are not cleared. See the TRIAL CLOSE function for more information.

NOTE: If the DAY CLOSE is not performed at the same time as the processors' day close, the host and terminal totals may not match.

```
** THIS IS LINE 1 OF THE STORE MESSAGE *
** THIS IS LINE 2 OF THE STORE MESSAGE *
** THIS IS LINE 3 OF THE STORE MESSAGE *
** THIS IS LINE 4 OF THE STORE MESSAGE *

Term# TRTX0002

Date:                Time:
06/06/97              01:43:00 PM

            DAY CLOSE

     ***HOST TOTALS NOT RECEIVED***

                       TERMINAL
                       --------
Withdrawals                 0

Inquiries                   0

Transfers                   0

SETTLEMENT $             0.00
```

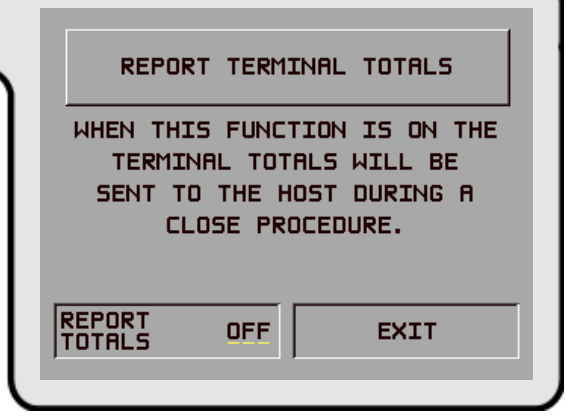
Sample DAY CLOSE receipt.

ERROR CONDITIONS:

A call to the processor host computer is required to complete the operation. If the call to the host is not completed successfully, a warning (***HOST TOTALS NOT RECEIVED***) will be printed on the report.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SEND TERMINAL TOTALS



FACTORY DEFAULT: OFF

ACCESS INSTRUCTIONS:

1.) Select CLOSE from the MANAGEMENT FUNCTION screen.
2.) Select SEND TERMINAL TOTALS.

DESCRIPTION:

This function allows you to turn on or off the REPORT TERMINAL TOTALS feature. When the feature is turned ON, the terminal will send accumulated totals information to the processor during the close operation. Terminal totals include the total value of all withdawal, inquiry and transfer transactions that have occurred since the last close operation (see the description of the DAY CLOSE function for additional information).

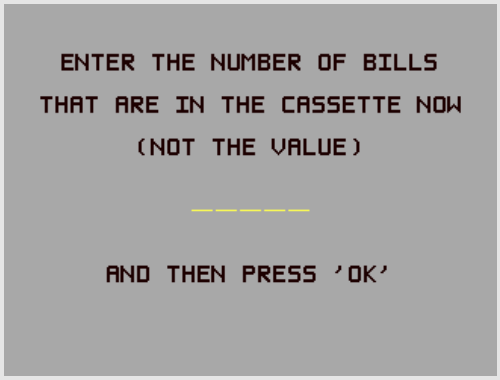
The current state of the SEND TERMINAL TOTALS feature is shown as either ON or OFF in the label on the left-hand side of the display. Press the button next to this label to toggle the state of the feature between ON and OFF.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENTER QTY. IN CASSETTE



FACTORY DEFAULT: '0'

ACCESS INSTRUCTIONS:

1.) Select CLOSE from the MANAGEMENT FUNCTION screen.
2.) Select ENTER QTY. IN CASSETTE.

DESCRIPTION:

The ENTER QTY. IN CASSETTE function allows entry of the number of documents in the cassette. This number is used as a starting point for the cassette close report, the Dispense Counter value on the Receipt Printer Report and the Low Cash Threshold feature. Enter the total number of documents in the cassette and press <OK>.

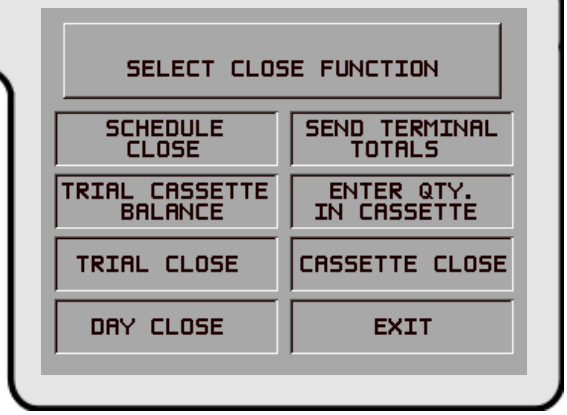
NOTE: Enter the ***number*** of documents placed in a cassette, not the value of those documents.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: CASSETTE CLOSE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select CLOSE from the MANAGEMENT FUNCTION screen.
2.) Select CASSETTE CLOSE.

DESCRIPTION:

The CASSETTE CLOSE function is used to complete the balancing of a specific currency cassette of the Cash Dispenser. This function prints a report summarizing all activity on the Cash Dispenser for the selected cassette since the last CASSETTE CLOSE was completed. The report includes a total of all transactions.

The CASSETTE CLOSE is normally completed as the final step in balancing the currency cassette before removing it to be replenished. The CASSETTE CLOSE report is printed to the Receipt Printer. Completing a CASSETTE CLOSE clears the cassette total from the Cash Dispenser.

NOTE: The Cassette Close operation also resets the number of bills loaded in the cassette to zero (0). After performing a cassette close, use the "ENTER QTY IN CASSETTE" function to enter the number of bills in the cassette.


** THIS IS LINE 1 OF THE STORE MESSAGE *
** THIS IS LINE 2 OF THE STORE MESSAGE *
** THIS IS LINE 3 OF THE STORE MESSAGE *
** THIS IS LINE 4 OF THE STORE MESSAGE *

TermH TRTX0002

Date: 06/06/97
Time: 01:43:14 PM

CASSETTE CLOSE

	QTY	AMT
START	0	0.00
DISPENSED	0	0.00
REMAINING	0	0.00

VALUE OF EACH DOC. $ 10.00

TRANSACTIONS: 0
REJECTS: 0 (1 or more docs.)

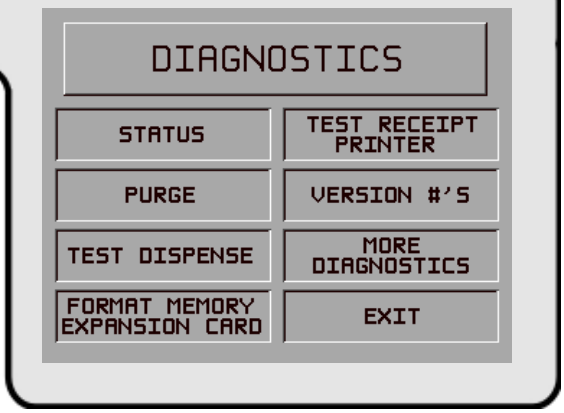
Sample CASSETTE CLOSE receipt.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: DIAGNOSTICS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

Select DIAGNOSTICS from the MANAGEMENT FUNCTIONS screen.

DESCRIPTION:

Select one of the following to perform the appropriate DIAGNOSTICS test:

- Select STATUS to determine the operational status of the Cash Dispenser.
- Select PURGE to complete a PURGE cycle on the dispensing mechanism.
- Select TEST DISPENSE to perform a combined dispense and reject operation on the dispensing mechanism.
- Select FORMAT MEMORY EXPANSION CARD to erase the contents of a memory Expansion Card and to prepare the card to receive new data.
- Select the TEST RECEIPT PRINTER option to test the operation of the Receipt Printer.
- Select the VERSION #'S option to display a screen that provides version numbers for the various components of the terminal operating software.
- Select the MORE DIAGNOSTICS option to access the following diagnostic functions:
  - RESET/TEST MODEM. Select this option to verify that a modem is installed and that it is capable of being configured.
  - SCAN CARD. Select this option to to verify that a customer's ATM or credit card can be read by the terminal card reader.

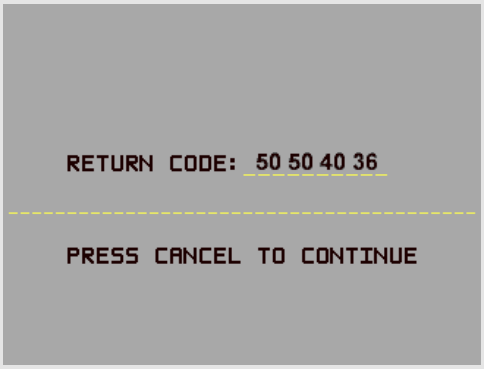
NOTE: The diagnostics options do not have a time-out associated with them. You must manually exit the diagnostics mode when you are finished. Each of the diagnostics options is outlined on the following pages.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: STATUS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select DIAGNOSTICS from the MANAGEMENT FUNCTIONS screen.
2.) Select the STATUS option.

DESCRIPTION:

The STATUS command is used to check the status of four functional areas of the dispensing mechanism. These areas are the current Status of Count Sensors, the current Double Detect status, the current average thickness of the documents being dispensed, and the current average length of the documents being dispensed. Any of the following sets of return codes will indicate that all of the areas are operating normally:

1.) '40 50 40 36'

2.) '50 50 40 36'

3.) '44 50 40 36'

4.) '54 50 40 36'

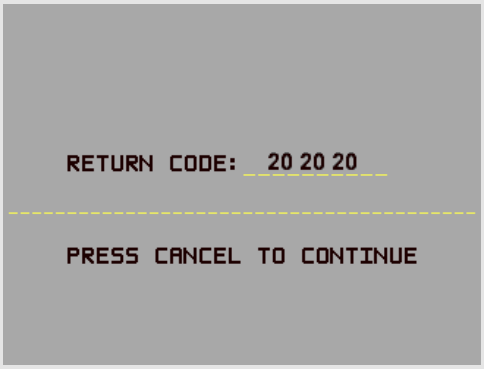
The cancel button must be pressed to return to the diagnostic's menu.

ERROR CONDITIONS:

If any code other than what is indicated above is displayed contact your service provider for assistance.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: PURGE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select DIAGNOSTICS from the MANAGEMENT FUNCTIONS screen.
2.) Select the PURGE option.

DESCRIPTION:

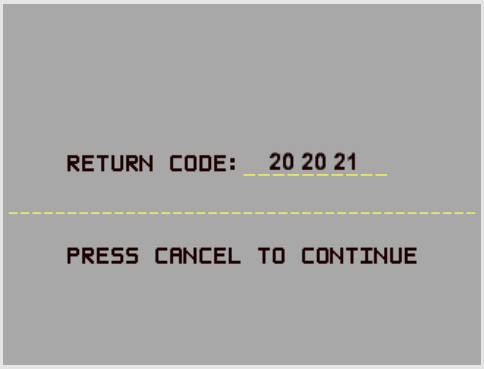
The purge command instructs the dispenser to remove all documents from the feed path. When the purge command is used to clear the feed path following a jam or failure of the dispenser, some or all of the notes may pass out of the exit slot depending on their location and the fault condition. The return code for a successful Purge is '20 20 20'. Press the Cancel key to return to the diagnostics menu.

ERROR CONDITIONS:

If any code other than '20, 20, 20' is displayed contact your service provider for assistance.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: TEST DISPENSE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select DIAGNOSTICS from the MANAGEMENT FUNCTIONS screen.
2.) Select the TEST DISPENSE option.

DESCRIPTION:

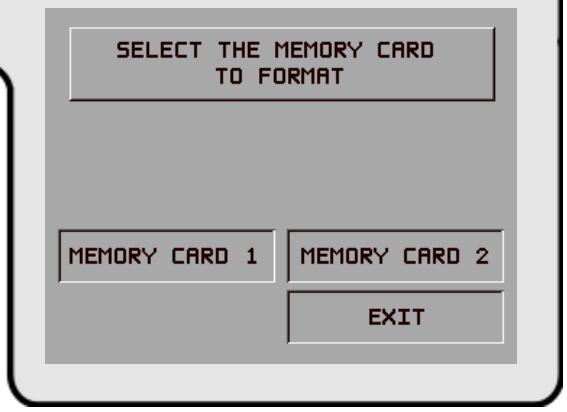
This command instructs the dispensing mechanism to dispense one note from the cassette into the reject box. This test exercises the dispenser without sending notes out the exit. A return code of '20 20 21' indicates a successful test dispense. Press the Cancel key to return to the diagnostics menu.

ERROR CONDITIONS:

If any code other than '20 20 21' is displayed contact your service provider for assistance.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: FORMAT MEMORY EXP. CARD



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

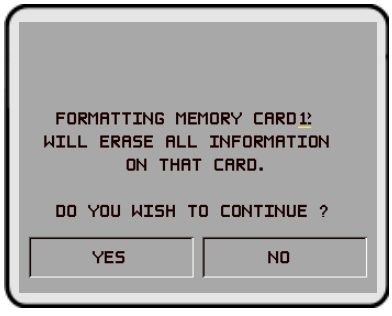
1.) Select DIAGNOSTICS from the MANAGEMENT FUNCTIONS screen.
2.) Select the FORMAT MEMORY EXPANSION CARD option.

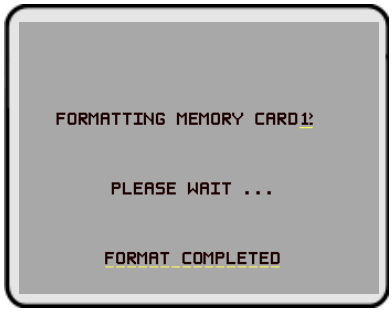
DESCRIPTION:

All Memory Expansion Cards are shipped from the factory formatted and ready to accept downloaded Ad Graphics files. Normally, it will only be necessary to format a memory Expansion cardto erase the existing files, or in the event a file becomes corrupted. If it becomes necessary to format a Memory Expansion Card, it can be accomplished from either the local terminal or through commands downloaded from a Triton Connect Host Computer.

CAUTION: Formatting a Memory Expansion Card will erase all files stored on the card. Do not format a Memory Expansion Card unless you have the capability to download files to the terminal.

When the SELECT MEMORY CARD TO FORMAT screen is displayed, the options that are made available are MEMORY CARD 1 or MEMORY CARD 2. Selecting either will begin the formatting process.



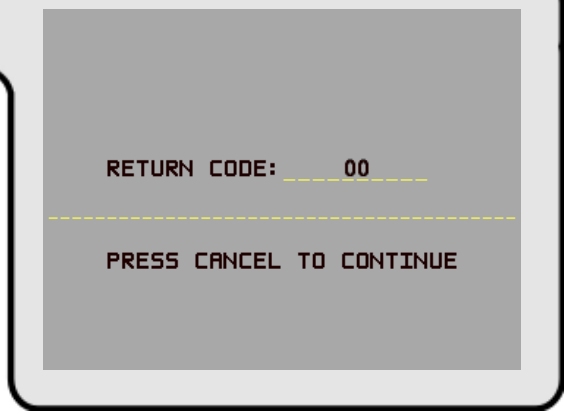


ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: TEST RECEIPT PRINTER



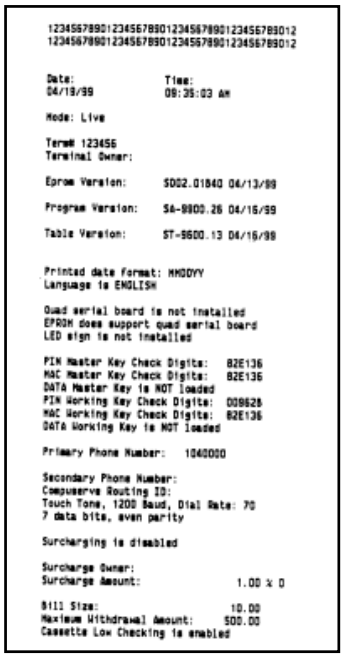
FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

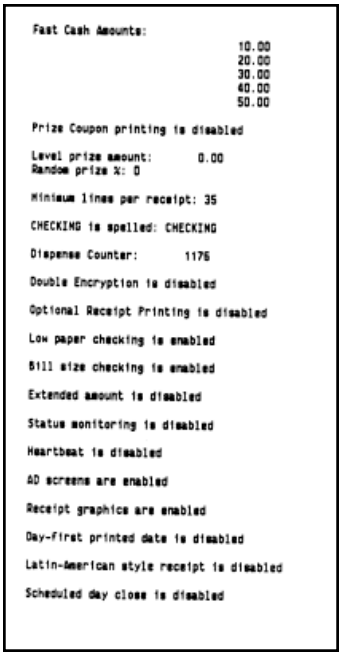
1.) Select DIAGNOSTICS from the MANAGEMENT FUNCTIONS screen.
2.) Select the TEST RECEIPT PRINTER option.

DESCRIPTION:

This command will print two lines of text on the receipt printer and then advance and cut the paper. The text should be 42 characters wide. The remainder of the information on the TEST RECEIPT PRINTER print out is terminal configuration data. If the printer test fails to print two lines of 42 characters, fails to advance the paper, or fails to cut the paper, contact your service provider for assistance. A return code of '00' indicates a successful printer test. Press the Cancel key to return to the DIAGNOSTICS main menu.



Sample RECEIPT PRINTER test results.

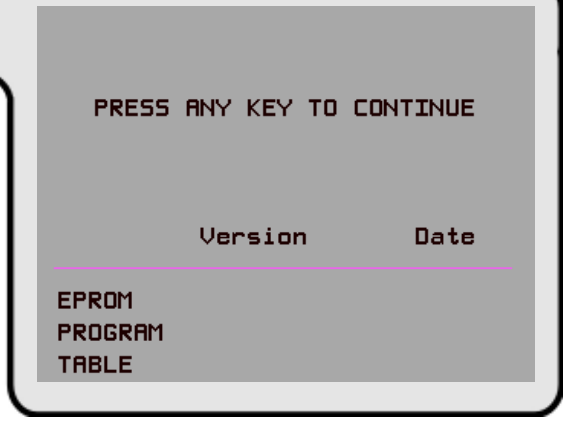


ERROR CONDITIONS:

If any code other than '00' is displayed contact your service provider for assistance.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: VERSION #'S



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select DIAGNOSTICS from the MANAGEMENT FUNCTIONS screen.
2.) Select the VERSION #'S option.

DESCRIPTION:

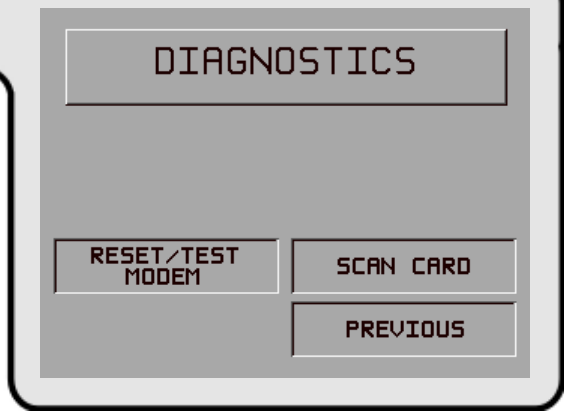
This function displays the version information for the terminal software that is running in the Cash Dispenser. Normally you do not need to access this function unless you are asked to by service personnel.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: MORE DIAGNOSTICS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select DIAGNOSTICS from the MANAGEMENT FUNCTIONS screen.
2.) Select the MORE DIAGNOSTICS option.

DESCRIPTION:

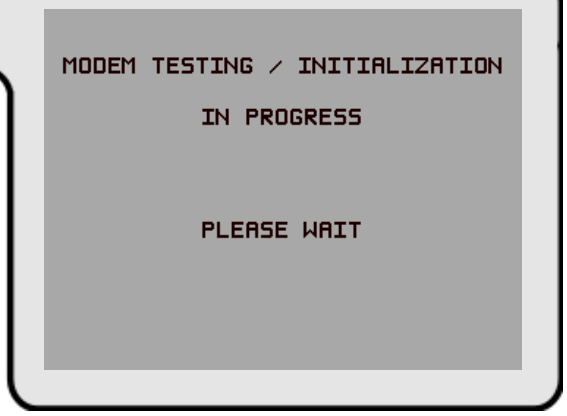
This screen allows you to select additional diagnostics functions. The functions available are RESET/TEST MODEM, which performs a functional test of the modem hardware, and SCAN CARD, which enables you to test a customer's ATM or credit card for proper operation in the terminal card reader.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: RESET/TEST MODEM



FACTORY DEFAULT: N/A

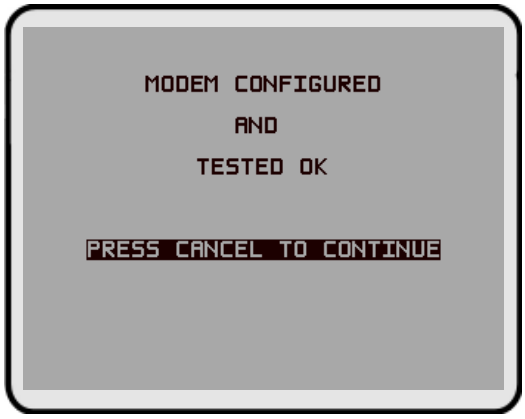
ACCESS INSTRUCTIONS:

1.) Select DIAGNOSTICS from the MANAGEMENT FUNCTIONS screen.
2.) Select MORE DIAGNOSTICS.
3.) Select the RESET/TEST MODEM option.

DESCRIPTION:

This test confirms that the CPU Module can communicate with the modem and that the modem can be configured. This test does not test the ability of the modem to communicate on the phone line. If the RESET/TEST MODEM TEST fails, contact your service provider for assistance. Press the Cancel key to return to the diagnostic's menu.

If the test is successful, the following message screen will be displayed:



ERROR CONDITIONS:

If the test fails, an error message will be displayed.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SCAN CARD

FACTORY DEFAULT: N/A

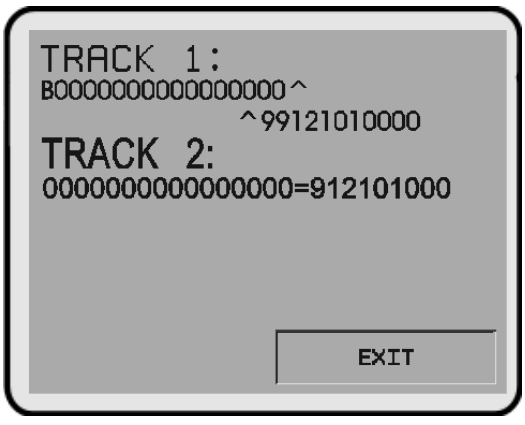
ACCESS INSTRUCTIONS:

1.) Select DIAGNOSTICS from the MANAGEMENT FUNCTIONS screen.
2.) Select MORE DIAGNOSTICS.
3.) Select the SCAN CARD option.

DESCRIPTION:

The SCAN CARD function reads a card and displays the information imprinted on its magnetic strip. This can be done on a customer card that doesn't seem to work in the Cash Dispenser. If the customer complains of card read errors, first make sure that he or she is inserting the card correctly. Then try to read the card with SCAN CARD. If the card can be read properly, the information from track 1 and track 2 will be displayed. A card need only have a readable track 2 to operate successfully in the Cash Dispenser.

A series of prompt screens direct the user to first INSERT the card to be scanned (shown above) and then to REMOVE it, after which the results of the scan are presented, as shown in the following:



ERROR CONDITIONS:

If the card is damaged or not a standard format, the screen will display an error message. If this happens, the card cannot be used for transactions on the Cash Dispenser.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: LANGUAGE/IDIOMA

FACTORY DEFAULT: Country-specific

ACCESS INSTRUCTIONS:

Select the LANGUAGE/IDIOMA option from the MANAGEMENT FUNCTIONS screen to view the additional options available.

DESCRIPTION:

This function provides access to the options that control the language that is displayed on the Cash Dispenser LCD Display. Current language options include English or Spanish (certain international versions of terminal software provide a French option instead of Spanish), and a customer option feature enables or disables customer-selection of the language in which text is presented on the LCD display.

1.) ENGLISH / INGLES
2.) SPANISH / ESPANOL
3.) ENABLE CUST. OPTION
4.) DISABLE CUST. OPTION

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENGLISH/INGLES

FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select the LANGUAGE/IDIOMA option from the MANAGEMENT FUNCTIONS screen.
2.) Select the ENGLISH/INGLES option.

DESCRIPTION:

Choosing this function when the DISABLE CUST. OPTION is selected will set the LCD screen to display only English text during a transaction.

Choosing this function when the ENABLE CUST. OPTION is selected will present customer transaction text in English initially, but will allow the customer to choose English or Spanish (or French for some versions of terminal software).

In addition to the customer transactions taking place in the English language, all Management Functions will be presented in English. All receipts will be printed in English text, as well.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SPANISH/ESPANOL

FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select the LANGUAGE/IDIOMA option from the MANAGEMENT FUNCTIONS screen.
2.) Select the SPANISH/ESPANOL option.

DESCRIPTION:

NOTE: Some versions of international software replace the Spanish language option with French.

Choosing this option when the DISABLE CUST. OPTION is selected will display only Spanish text during a transaction.

Choosing this option when the ENABLE CUST. OPTION is selected will give the customer the option of completing the transaction in either English or Spanish.

In addition to the transaction taking place in the Spanish language, all Management Functions will be presented in Spanish.

Some terminal software versions support the printing of receipts in Spanish.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENABLE/DISABLE CUST. OPTION

FACTORY DEFAULT: 'OPTION IS: DISABLED'

ACCESS INSTRUCTIONS:

1.) Select the LANGUAGE/IDIOMA option from the MANAGEMENT FUNCTIONS screen.
2.) Select either option, as appropriate:

- ENABLE CUST. OPTION.
- DISABLE CUST. OPTION.

DESCRIPTION:

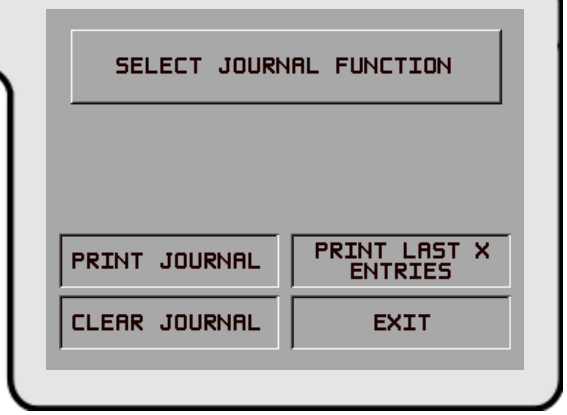
If the mode is ENABLED, the customer will be offered a bilingual screen instructing them to select a desired language (currently English and either Spanish or French depending upon software version) for the transaction. If the mode is DISABLED, the customer will not be offered this option.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: JOURNAL



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

Select JOURNAL from the options available at the MANAGEMENT FUNCTIONS screen.

DESCRIPTION:

Select the JOURNAL function from the MANAGEMENT FUNCTIONS screen to:

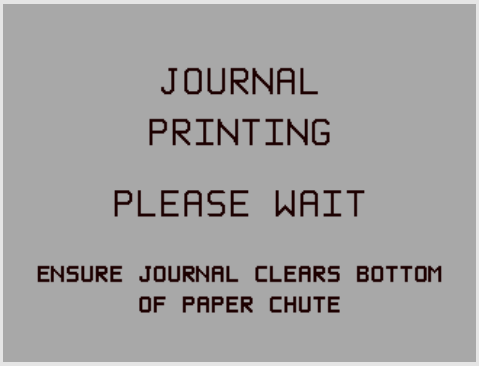
1.) PRINT THE JOURNAL
2.) CLEAR JOURNAL
3.) PRINT THE LAST X ENTRIES

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: PRINT JOURNAL



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select JOURNAL from the options available at the MANAGEMENT FUNCTIONS screen.
2.) Select the PRINT JOURNAL option to print all unaudited records stored in the Electronic Journal.

DESCRIPTION:

The PRINT JOURNAL command is used to automatically print out any journal entries collected since the last time the journal was printed. ALL journal records will be printed, whether there are 1 or 2045 records. This command should be used regularly to print the audit trail of the terminal. This information should be maintained in case of an inquiry by a customer, and can also be useful in certain troubleshooting situations.

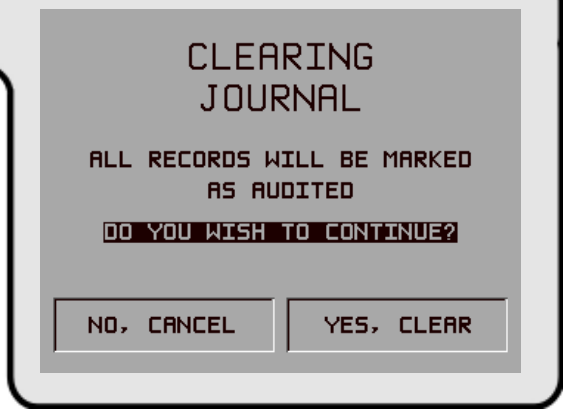
When this command is run, all unaudited records in the Electronic Journal are immediately sent to the receipt printer, and subsequently marked as audited. Any record printed in this fashion will not be printed again by this command, although it can be printed using the PRINT LAST X ENTRIES command. When the journal has finished printing, the SELECT JOURNAL FUNCTION screen will be displayed.

ERROR CONDITIONS:

If the operation fails, an error message will be displayed.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: CLEAR JOURNAL



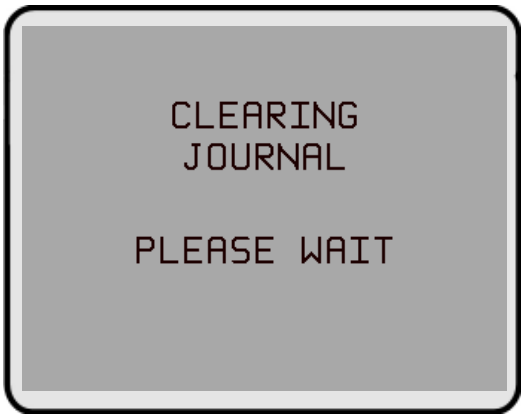
FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select JOURNAL from the options available at the MANAGEMENT FUNCTIONS screen.
2.) Select the CLEAR JOURNAL option to mark all journal entries stored in the Electronic Journal since the last time the CLEAR JOURNAL or PRINT JOURNAL functions were completed.

DESCRIPTION:

The CLEAR JOURNAL command is used to mark all unprinted records in the journal as 'audited'. This means that they will not be printed out the next time a PRINT JOURNAL command is performed. Audited records are not erased. They are marked as if they had been printed. When this function is selected, a confirmation screen prompts the user to answer YES, CLEAR to continue with operation or NO, CANCEL to quit. If the user answers YES, CLEAR, the following screen will be displayed:



When the journal has been cleared, the SELECT JOURNAL FUNCTION screen will be displayed. Note that even after this command has been completed, records are still available for printing by using the PRINT LAST X ENTRIES command.

ERROR CONDITIONS:

If the operation fails, and error message will be displayed.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: PRINT LAST X ENTRIES

FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select JOURNAL from the options available at the MANAGEMENT FUNCTIONS screen.
2.) Select the PRINT LAST X ENTRIES option to print the last X (where 'X' is a number from 1 to 2045) entries stored in the Electronic Journal.

DESCRIPTION:

This command is used to reprint records from the Electronic Journal, either before or after they have been audited using the CLEAR JOURNAL or PRINT JOURNAL commands. Records printed out using this command are not marked in any way. This command will not affect the operation of the PRINT JOURNAL command.

This command is used for several purposes. It can be used to reprint records for which the paper trail has been lost or destroyed. It can also be used to print out records before they are audited, for diagnostic purposes.

When using this command, the user is prompted to enter the number of the most recently collected records to be printed. It always operates on the last 'X' entries. If an operator needs to see a transaction that happened about 10 records earlier, entering '13' a the prompt will cause the last 13 records to be printed, but not cleared, from the buffer. This will ensure that the transaction in question is printed.

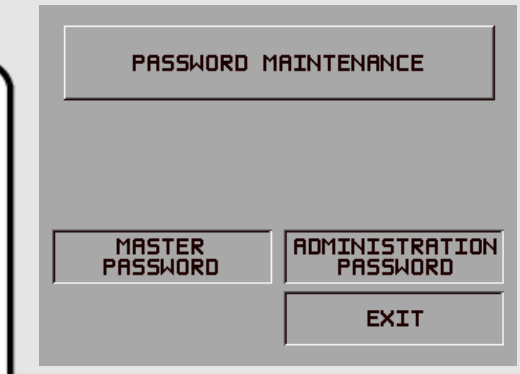
Subsequent uses of this command are not cumulative. No pointer is maintained that 'moves' each time this command is run. It always operates on the LAST X ENTRIES.

ERROR CONDITIONS:

Entering a number greater than the number of records in the buffer memory of the journal will cause all records to be printed. The buffer memory can contain up to 2045 records at any one time.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: PASSWORD MAINTENANCE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

Select the PASSWORD MAINTENANCE option from the MANAGEMENT FUNCTIONS screen.

DESCRIPTION:

The PASSWORD MAINTENANCE Function of MANAGEMENT FUNCTIONS menu allows access to menus for viewing and changing the following:

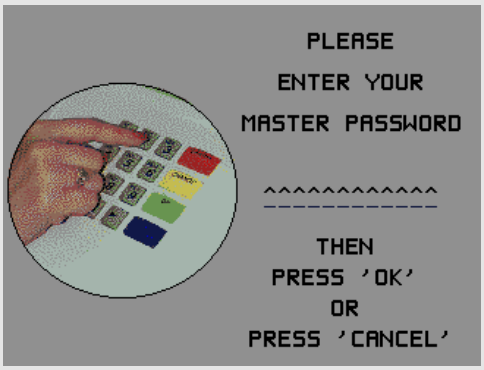
1.) MASTER PASSWORD
2.) ADMINISTRATION PASSWORD

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: MASTER PASSWORD



FACTORY DEFAULT: '123456'

ACCESS INSTRUCTIONS:

1.) Select the PASSWORD MAINTENANCE option from the MANAGEMENT FUNCTIONS screen.
2.) Select the MASTER PASSWORD option.

DESCRIPTION:

The MASTER PASSWORD is the highest level password on the Cash Dispenser. It allows access to all functions except downloading of new software. The MASTER PASSWORD must be entered in order to change the ADMINISTRATION password. The factory default MASTER PASSWORD is '**123456'** *and should be changed when the Cash Dispenser is installed.*

To change the MASTER PASSWORD, select this function. You will be prompted to enter your new password. An asterisk (*) will be displayed in place of the actual digits entered; therefore, you must enter the password a second time when prompted to confirm it.

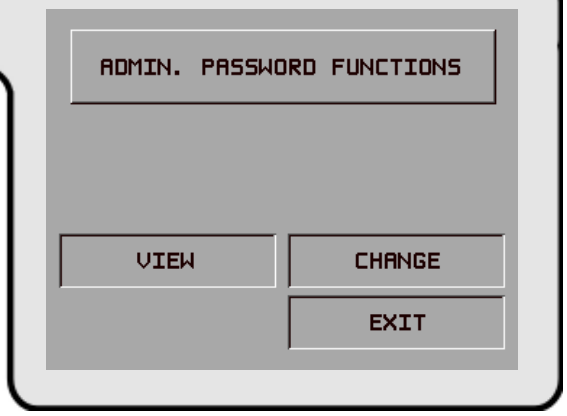
The password can be from 4 to 12 digits long and can contain only numbers; letters are not allowed.

ERROR CONDITIONS:

A number of feedback screens may appear during password entry. These screens can appear if the second password entry did not match the first, you entered an invalid password, or the password you entered was too short (less than 4 characters).

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ADMINISTRATION PASSWORD



FACTORY DEFAULT: '987654'

ACCESS INSTRUCTIONS:

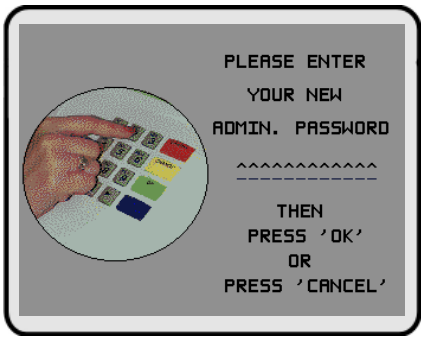
1.) Select the PASSWORD MAINTENANCE option from the MANAGEMENT FUNCTIONS screen.
2.) Select the ADMINISTRATION PASSWORD option.

DESCRIPTION:

The ADMINISTRATION PASSWORD is used to perform daily management functions. This password DOES NOT allow access to the TERMINAL CONFIGURATION menu.

This password can only be changed when the MASTER PASSWORD is used to enter the MANAGEMENT FUNCTIONS area. Use the options provided to VIEW or CHANGE the password, as shown in the figures below. When the VIEW option is selected, the current password will be displayed for a few seconds. When changing the password, it must be entered twice, because the characters entered are not displayed (an asterisk (*) is displayed in place of each character, for security reasons). The password length can range from 4 to 12 characters.

VIEW



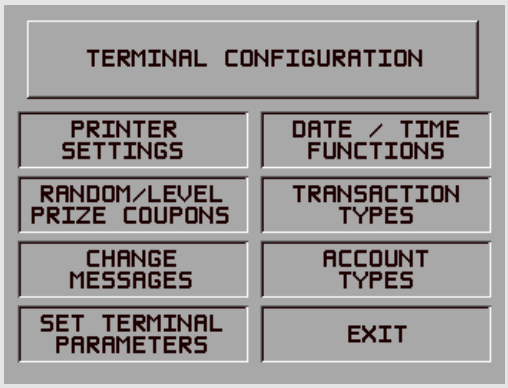
CHANGE

ERROR CONDITIONS:

A number of feedback screens may appear during password entry. These screens can appear if the second password entry did not match the first, you entered an invalid password, or the password you entered was too short (less than 4 characters).

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: TERMINAL CONFIGURATION



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

Select the TERMINAL CONFIGURATION option from the MANAGEMENT FUNCTIONS screen.

DESCRIPTION:

The TERMINAL CONFIGURATION option provides access to functions that allow the following parameters to be viewed and changed:

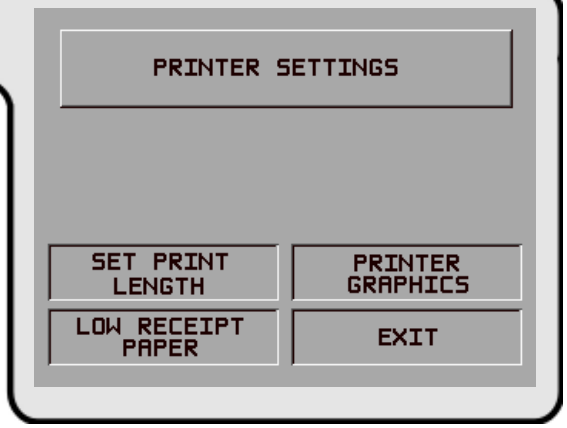
1.) PRINTER SETTINGS
2.) RANDOM/LEVEL PRIZE COUPONS
3.) CHANGE MESSAGES
4.) SET TERMINAL PARAMETERS
5.) DATE / TIME FUNCTIONS
6.) TRANSACTION TYPES
7.) ACCOUNT TYPES

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: PRINTER SETTINGS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select the TERMINAL CONFIGURATION option from the MANAGEMENT FUNCTIONS screen.
2.) Select the PRINTER SETTINGS option.

DESCRIPTION:

This menu provides access to the following functions:

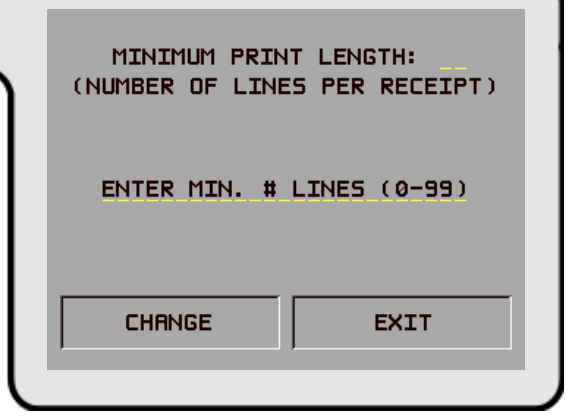
1.) SET PRINT LENGTH
2.) LOW RECEIPT PAPER
3.) PRINTER GRAPHICS

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET PRINT LENGTH



FACTORY DEFAULT: '35'

ACCESS INSTRUCTIONS:

1.) Select the TERMINAL CONFIGURATION option from the MANAGEMENT FUNCTIONS screen.
2.) Select the PRINTER SETTINGS option.
3.) Select SET PRINT LENGTH.

DESCRIPTION:

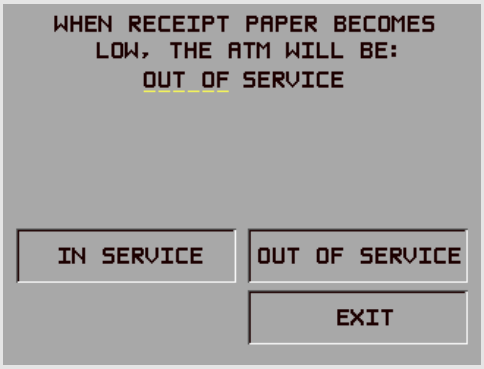
This function sets the minimum length of the receipt provided to the customer after each transaction.

ERROR CONDITIONS:

Changing the Print Length to less than 35 lines will prevent the receipt from exiting the front of the Cash Dispenser. This may cause paper jams that could result in printer damage.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: LOW RECEIPT PAPER



FACTORY DEFAULT: 'OUT OF SERVICE'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select the PRINTER SETTINGS option.
3.) Choose the LOW RECEIPT PAPER option.

DESCRIPTION:

After selecting the LOW RECEIPT PAPER ON/OFF option, a screen displaying," WHEN RECEIPT PAPER BECOMES LOW, THE ATM WILL BE OUT OF SERVICE" (or IN SERVICE depending on terminal setup). Change to IN SERVICE or OUT OF SERVICE by pressing the Screen Key next to the appropriate text and pressing the EXIT key.

Selecting the IN SERVICE options will allow the terminal to continue to operate after it senses a Receipt Printer Paper Low condition (Error Code 183). *Selecting this option will allow the terminal to operate with low or no receipt paper in the terminal.*

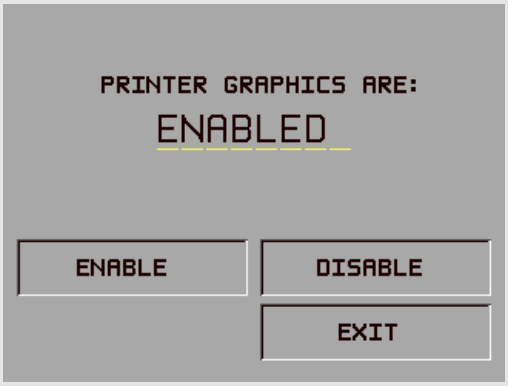
Selecting the OUT OF SERVICE option will allow the terminal to report a Receipt Printer Paper Low condition (Error Code 183), and will place the terminal in an OUT OF SERVICE condition until the receipt paper is replenished.

ERROR CONDITIONS:

Error Code 183 – Receipt Printer Paper Low will take the terminal OUT OF SERVICE. To restore the terminal to normal operation the paper must be replenished and the Reset Error button pressed after the terminal has been reset and is displaying the OUT OF SERVICE screen.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: PRINTER GRAPHICS



FACTORY DEFAULT: ENABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION option from the MANAGEMENT FUNCTIONS screen.
2.) Select the PRINTER SETTINGS option.
3.) Select PRINTER GRAPHICS.

DESCRIPTION:

The Printed Graphics feature can only be used when an optional Memory Expansion Card is installed in the terminal. Triton Connect Software Release 1.8 (or above) allows bit mapped graphics (in '.bmp' format) to be downloaded to the terminal. This graphic will be printed on the receipt when the PRINTER GRAPHICS option has been ENABLED. This feature cannot be supported with out the addition of an Expansion Memory Card.

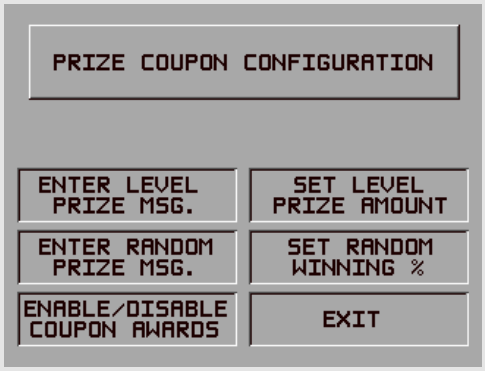
To turn on the PRINTER GRAPHICS feature, choose the ENABLE option on this screen. To inhibit the PRINTER GRAPHICS feature, press the DISABLE key.

ERROR CONDITIONS:

If PRINTER GRAPHICS is enabled and there are no graphic images loaded into the Expansion Memory Card, the receipt printer will print normal receipts without graphics. There are no error conditions associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: RANDOM/LEVEL PRIZE COUPONS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select RANDOM/LEVEL PRIZE COUPONS from the TERMINAL CONFIGURATION menu.

DESCRIPTION:

This function provides access to the following options, which will set up terminal operations for issuing printed and dispensed prize coupons:

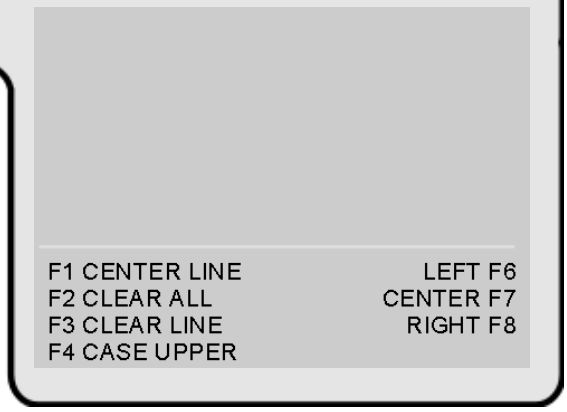
1.) ENTER LEVEL/PRIZE MESSAGE.
2.) ENTER RANDOM PRIZE MESSAGE.
3.) ENABLE/DISABLE COUPON AWARDS.
4.) SET LEVEL PRIZE AMOUNT.
5.) SET RANDOM WINNING %.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENTER LEVEL PRIZE MSG.



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select RANDOM/LEVEL PRIZE COUPONS from the TERMINAL CONFIGURATION menu.
3.) Select ENTER LEVEL PRIZE MSG.

DESCRIPTION:

The LEVEL PRIZE MESSAGE consists of four lines of text that are printed on the Level Prize receipt and report. The text can be full alphanumeric text. Enter letters, numbers and punctuation as follows:

KEY F4 UPPER	1	2	3	4	5	6	7	8	9	0
No Shift	1	2	3	4	5	6	7	8	9	0
F6 Left	Q	A	D	G	J	M	P	T	W	,
F7 Center	Z	B	E	H	K	N	R	U	X	.
F8 Right	Sp	C	F	I	L	O	S	V	Y	-
F4 LOWER										
No Shift	!	@	#	$	%	^	&	*	(	)
F6 Left	q	a	d	g	j	m	p	t	w	’
F7 Center	z	b	c	h	k	n	r	u	x	+
F8 Right	&	c	f	i	l	o	s	v	y	=

The keys along either side of the display are used with the numeric keys on the main keypad to permit entry of alphanumeric characters. The keys on the left side of the display are designated <F1> through <F4>. The keys on the right side of the display are <F6> through <F8>. The <F1> key centers the text on the line where the cursor appears. The <F2> key erases all text in the current message. <F3> clears the text on the line the cursor is currently appearing.

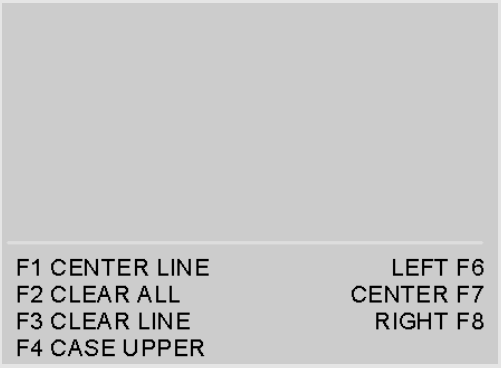
The <F4> Key is used similarly to a CAPS LOCK key on a computer keyboard. Pressing the <F4> key toggles between uppercase and lowercase. To enter an alphabetic or punctuation character, one of the <F6> through <F8> keys must be pressed, followed by one of the numeric keys. The resultant character will be as indicated in the table. Press the <OK> key to save the changes made. If you make a mistake and want to start over, press the CANCEL key to discard any changes made to that point.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENTER RANDOM PRIZE MSG.



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select RANDOM/LEVEL PRIZE COUPONS from the TERMINAL CONFIGURATION menu.
3.) Select ENTER RANDOM PRIZE MSG.

DESCRIPTION:

The RANDOM PRIZE MESSAGE consists of four lines of text that are printed on the Random Coupon receipt and report. The text can be full alphanumeric text. Enter desired letters, numbers and punctuation as follows:

KEY F4 UPPER	1	2	3	4	5	6	7	8	9	0
No Shift	1	2	3	4	5	6	7	8	9	0
F6 Left	Q	A	D	G	J	M	P	T	W	,
F7 Center	Z	B	E	H	K	N	R	U	X	.
F8 Right	Sp	C	F	I	L	O	S	V	Y	-
F4 LOWER										
No Shift	!	@	#	$	%	^	&	*	(	)
F6 Left	q	a	d	g	j	m	p	t	w	'
F7 Center	z	b	c	h	k	n	r	u	x	+
F8 Right	&	c	f	i	l	o	s	v	y	=

The keys along either side of the display are used with the numeric keys on the main keypad to permit entry of alphanumeric characters. The keys on the left side of the display are designated <F1> through <F4>. The keys on the right side of the display are <F6> through <F8>. The <F1> key centers the text on the line where the cursor appears. The <F2> key erases all text in the current message. <F3> clears the text on the line the cursor is currently appearing.

The <F4> Key is used similarly to a CAPS LOCK key on a computer keyboard. Pressing the <F4> key toggles between uppercase and lowercase. To enter an alphabetic or punctuation character, one of the <F6> through <F8> keys must be pressed, followed by one of the numeric keys. The resultant character will be as indicated in the table. Press the <OK> key to save the changes made. If you make a mistake and want to start over, press the CANCEL key to discard any changes made to that point.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENABLE/DISABLE COUPON AWARDS

FACTORY DEFAULT: DISABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select RANDOM/LEVEL PRIZE COUPONS from the TERMINAL CONFIGURATION menu.
3.) Select the ENABLE/DISABLE COUPON AWARDS option.
4.) Select ENABLE OR DISABLE from the menu displayed.

DESCRIPTION:

This function provides access to a menu that allows the operator to ENABLE or DISABLE all printed coupon awards. If ENABLED, eligible transactions will be checked for award. If DISABLED, no coupons will be issued.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET LEVEL PRIZE AMOUNT

FACTORY DEFAULT: '$0.00'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select RANDOM/LEVEL PRIZE COUPONS from the TERMINAL CONFIGURATION menu.
3.) Select the SET LEVEL PRIZE AMOUNT option.
4.) Enter the amount in dollars and press "<OK>".

DESCRIPTION:

This function sets the threshold level at which the level prize coupon will be printed. Withdrawing an amount equal to or greater than the value set here will print the level prize coupon.

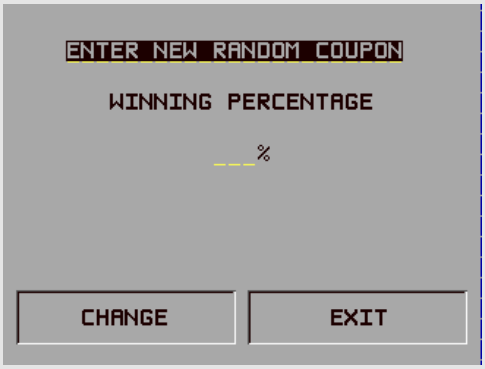
NOTE: If the level coupon is awarded, the random coupon parameter will not be tested for award.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET RANDOM WINNING %



FACTORY DEFAULT: '0%'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select RANDOM/LEVEL PRIZE COUPONS from the TERMINAL CONFIGURATION menu.
3.) Select the SET RANDOM WINNING % option.
4.) Select the CHANGE option.
5.) Enter the new random percentage and press <OK>.

DESCRIPTION:

This function sets the frequency at which the random prize coupons will be printed. The random coupon is won by a random number of transactions of any type. The winning percentage can be set from 0 to 100%. For example, if the winning percentage is set to 10%, then 1 out of every 10 transactions will be awarded a prize.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: CHANGE MESSAGES

FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select CHANGE MESSAGES.

DESCRIPTION:

The CHANGE MESSAGES option of the TERMINAL CONFIGURATION menu allows information for the following screens to be changed by the terminal operator or a service technician:

1.) MARKETING MESSAGE
2.) SURCHARGE MESSAGES
3.) WELCOME MESSAGE
4.) SURCHARGE OWNER
5.) EXIT MESSAGE
6.) STORE MESSAGE
7.) TERMINAL OWNER

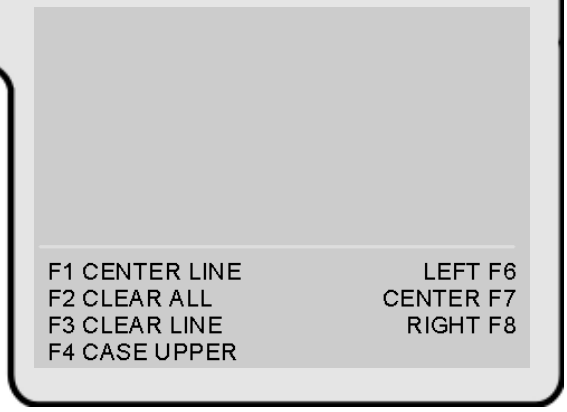
NOTE: In some versions of the terminal operating software the Marketing Message, if present, may appear on the right side of the display.

ERROR CONDITIONS:

There are no error conditions directly associated with this function

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: MARKETING MESSAGE



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select CHANGE MESSAGES.
3.) Select MARKETING MESSAGE.

DESCRIPTION:

The MARKETING MESSAGE function allows you to compose a message that will appear on any printed products that include the store message (e.g. customer receipts, day closes, coupons, etc.). The message can be up to four lines long. Enter letters, numbers and punctuation as follows:

KEY F4 UPPER	1	2	3	4	5	6	7	8	9	0
No Shift	1	2	3	4	5	6	7	8	9	0
F6 Left	Q	A	D	G	J	M	P	T	W	,
F7 Center	Z	B	E	H	K	N	R	U	X	.
F8 Right	Sp	C	F	I	L	O	S	V	Y	-
F4 LOWER										
No Shift	!	@	#	$	%	^	&	*	(	)
F6 Left	q	a	d	g	j	m	p	t	w	’
F7 Center	z	b	c	h	k	n	r	u	x	+
F8 Right	&	c	f	i	l	o	s	v	y	=

The keys along either side of the display are used with the numeric keys on the main keypad to permit entry of alphanumeric characters. The keys on the left side of the display are designated <F1> through <F4>. The keys on the right side of the display are <F6> through <F8>. The <F1> key centers the text on the line where the cursor appears. The <F2> key erases all text in the current message. <F3> clears the text on the line the cursor is currently appearing.

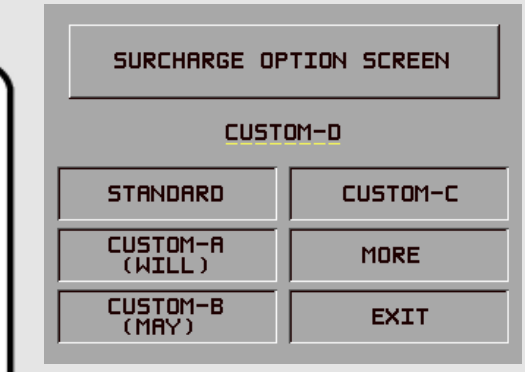
The <F4> Key is used similarly to a CAPS LOCK key on a computer keyboard. Pressing the <F4> key toggles between uppercase and lowercase. To enter an alphabetic or punctuation character, one of the <F6> through <F8> keys must be pressed, followed by one of the numeric keys. The resultant character will be as indicated in the table. Press the <OK> key to save the changes made. If you make a mistake and want to start over, press the CANCEL key to discard any changes made to that point.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SURCHARGE MESSAGES



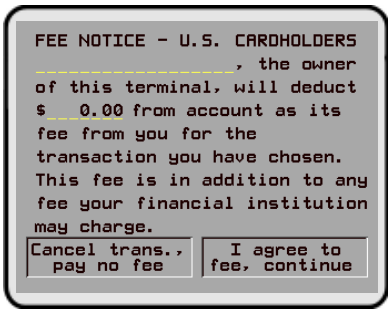
FACTORY DEFAULT: 'STANDARD'

ACCESS INSTRUCTIONS:

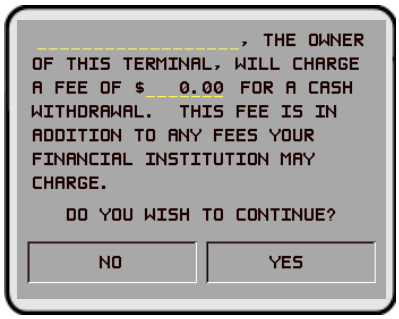
1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select CHANGE MESSAGES.
3.) Select SURCHARGE MESSAGES

DESCRIPTION:

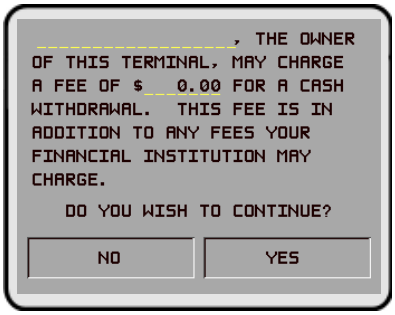
This function is used to select the surcharge message that will be displayed to the customer. Press the button next to the desired message to select it. Message options STANDARD, A, B and C are accessed from the first SURCHARGE OPTION SCREEN. The MORE option leads to a second screen containing message options D, E, F, G, and H.



STANDARD

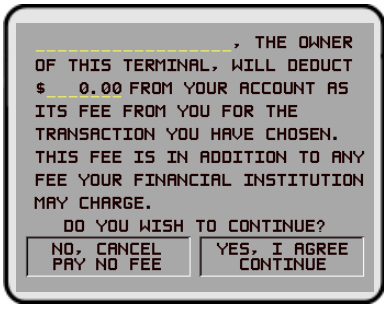


CUSTOM-A

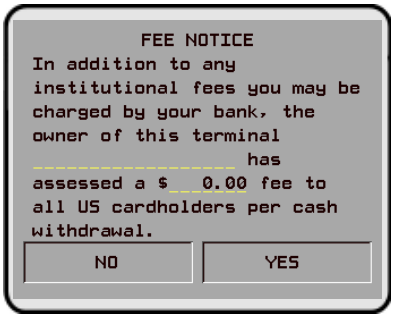


CUSTOM-B

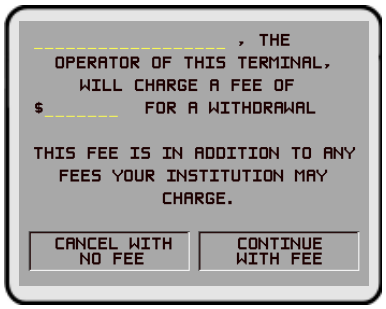
SECTION 2 - INSTALLATION AND SETUP



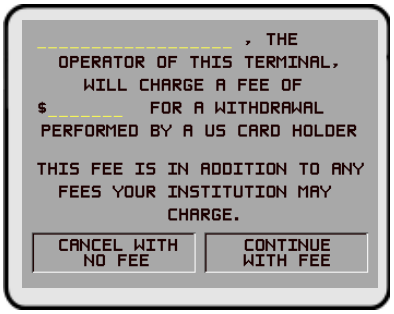
CUSTOM-C



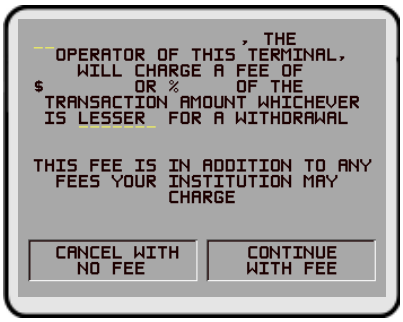
CUSTOM-D



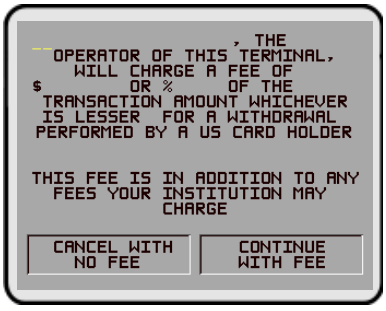
CUSTOM-E



CUSTOM-F



CUSTOM-G



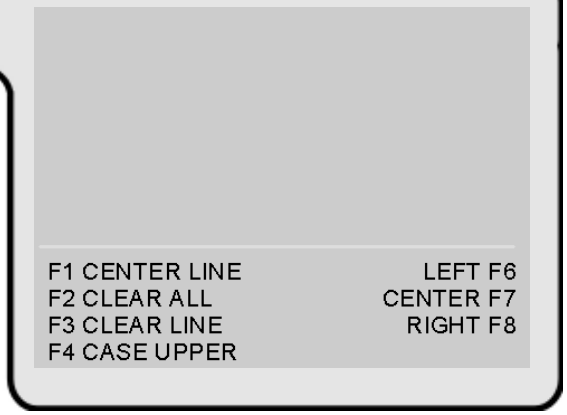
CUSTOM-H

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: WELCOME MESSAGE



FACTORY DEFAULT: 'WELCOME TO miniATM'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select CHANGE MESSAGES.
3.) Select Welcome Message.

DESCRIPTION:

The Welcome Message consists of three lines of text that are printed at the top of the customer welcome screen. The text can be full alphanumeric text. Enter letters, numbers and punctuation as follows:

KEY F4 UPPER	1	2	3	4	5	6	7	8	9	0
No Shift	1	2	3	4	5	6	7	8	9	0
F6 Left	Q	A	D	G	J	M	P	T	W	,
F7 Center	Z	B	E	H	K	N	R	U	X	.
F8 Right	Sp	C	F	I	L	O	S	V	Y	-
F4 LOWER										
No Shift	!	@	#	$	%	^	&	*	(	)
F6 Left	q	a	d	g	j	m	p	t	w	'
F7 Center	z	b	c	h	k	n	r	u	x	+
F8 Right	&	c	f	i	l	o	s	v	y	=

The keys along either side of the display are used with the numeric keys on the main keypad to permit entry of alphanumeric characters. The keys on the left side of the display are designated <F1> through <F4>. The keys on the right side of the display are <F6> through <F8>. The <F1> key centers the text on the line where the cursor appears. The <F2> key erases all text in the current message. <F3> clears the text on the line the cursor is currently appearing.

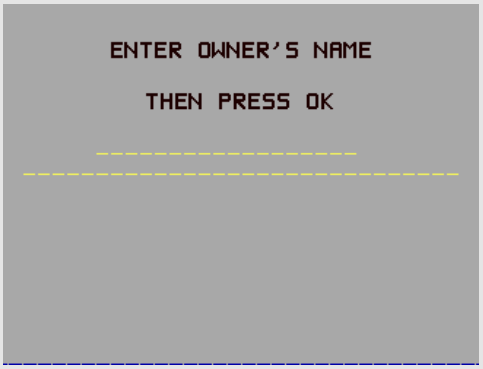
The <F4> Key is used similarly to a CAPS LOCK key on a computer keyboard. Pressing the <F4> key toggles between uppercase and lowercase. To enter an alphabetic or punctuation character, one of the <F6> through <F8> keys must be pressed, followed by one of the numeric keys. The resultant character will be as indicated in the table. Press the <OK> key to save the changes made. If you make a mistake and want to start over, press the CANCEL key to discard any changes made to that point.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SURCHARGE OWNER



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select CHANGE MESSAGES.
3.) Select SURCHARGE OWNER.

DESCRIPTION:

The name of the SURCHARGE OWNER is stored in the terminal and printed on the Receipt Printer Test Report. The name of the SURCHARGE OWNER is entered directly into the terminal.

To enter a digit 0-9, simply press the key that has that digit. To enter a letter, first press the <BLUE> key, then press the key that has the letter you want on it. The first press of the key will display the first character above the number. Subsequent presses will display the characters in sequence. When the character you want is displayed, press the <RIGHT ARROW> key to 'lock in' the letter. If your next character is a letter, you must press the <BLUE> key again.

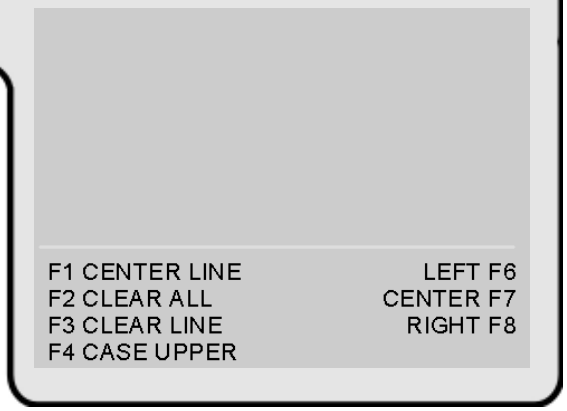
The name can be up to 18 characters long.

ERROR CONDITIONS:

There are no error conditions directly associated with this function

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: EXIT MESSAGE



FACTORY DEFAULT: 'Thank's for Using miniATM'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select CHANGE MESSAGES.
3.) Select EXIT MESSAGE.

DESCRIPTION:

The Exit Message consists of three lines of text that are printed on the terminal display at the conclusion of a transaction. The text can be full alphanumeric text. Enter letters, numbers and punctuation as follows:

The keys along either side of the display are used with the numeric keys on the main keypad to permit entry of alphanumeric characters. The keys on the left side of the display are designated <F1> through <F4>. The keys on the right side of the display are <F6> through <F8>. The <F1> key centers the text on the line where the cursor appears. The <F2> key erases all text in the current message. <F3> clears the text on the line the cursor is currently appearing.

KEY F4 UPPER	1	2	3	4	5	6	7	8	9	0
No Shift	1	2	3	4	5	6	7	8	9	0
F6 Left	Q	A	D	G	J	M	P	T	W	,
F7 Center	Z	B	E	H	K	N	R	U	X	.
F8 Right	Sp	C	F	I	L	O	S	V	Y	-
F4 LOWER										
No Shift	!	@	#	$	%	^	&	*	(	)
F6 Left	q	a	d	g	j	m	p	t	w	'
F7 Center	z	b	c	h	k	n	r	u	x	+
F8 Right	&	c	f	i	l	o	s	v	y	=

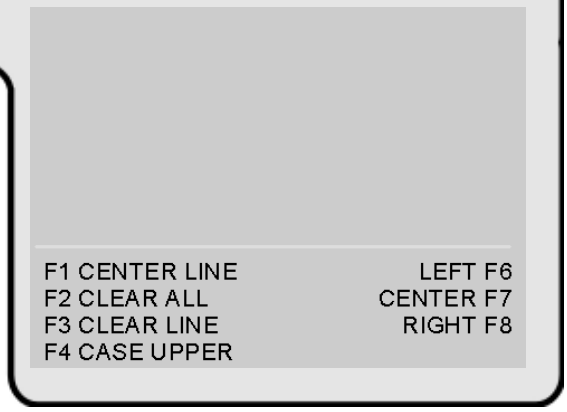
The <F4> Key is used similarly to a CAPS LOCK key on a computer keyboard. Pressing the <F4> key toggles between uppercase and lowercase. To enter an alphabetic or punctuation character, one of the <F6> through <F8> keys must be pressed, followed by one of the numeric keys. The resultant character will be as indicated in the table. Press the <OK> key to save the changes made. If you make a mistake and want to start over, press the CANCEL key to discard any changes made to that point.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: STORE MESSAGE



FACTORY DEFAULT: SEE NOTE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select CHANGE MESSAGES.
3.) Select STORE MESSAGE.

DESCRIPTION:

The STORE MESSAGE consists of four lines of text that are printed on the customer receipt. The text can be full alphanumeric text. Enter letters, numbers and punctuation as follows:

KEY F4 UPPER	1	2	3	4	5	6	7	8	9	0
No Shift	1	2	3	4	5	6	7	8	9	0
F6 Left	Q	A	D	G	J	M	P	T	W	,
F7 Center	Z	B	E	H	K	N	R	U	X	.
F8 Right	Sp	C	F	I	L	O	S	V	Y	-
F4 LOWER										
No Shift	!	@	#	$	%	^	&	*	(	)
F6 Left	q	a	d	g	j	m	p	t	w	’
F7 Center	z	b	c	h	k	n	r	u	x	+
F8 Right	&	c	f	i	l	o	s	v	y	=

The keys along either side of the display are used with the numeric keys on the main keypad to permit entry of alphanumeric characters. The keys on the left side of the display are designated <F1> through <F4>. The keys on the right side of the display are <F6> through <F8>. The <F1> key centers the text on the line where the cursor appears. The <F2> key erases all text in the current message. <F3> clears the text on the line the cursor is currently appearing.

The <F4> Key is used similarly to a CAPS LOCK key on a computer keyboard. Pressing the <F4> key toggles between uppercase and lowercase. To enter an alphabetic or punctuation character, one of the <F6> through <F8> keys must be pressed, followed by one of the numeric keys. The resultant character will be as indicated in the table. Press the <OK> key to save the changes made. If you make a mistake and want to start over, press the CANCEL key to discard any changes made to that point.

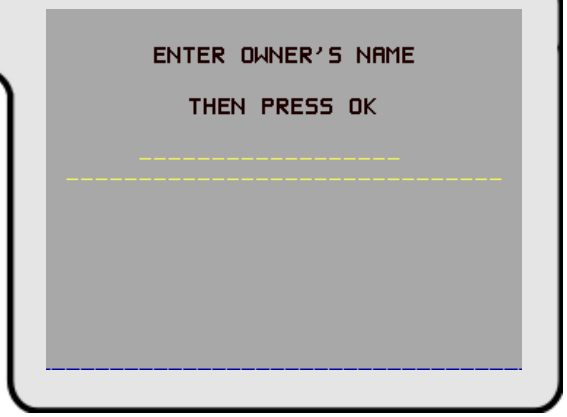
NOTE: ‘*THIS IS LINE (1-4) OF THE STORE MESSAGE*’

ERROR CONDITIONS:

There are no errors directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: TERMINAL OWNER



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select CHANGE MESSAGES.
3.) Select TERMINAL OWNER.

DESCRIPTION:

The name of the TERMINAL OWNER is stored in the terminal and displayed to the customer in the surcharge warning message. The name is entered directly into the terminal.

To enter a digit 0-9, simply press the key that has that digit. To enter a letter, first press the <BLUE> key, then press the key that has the letter you want on it. The first press of the key will display the first character above the number. Subsequent presses will display the characters in sequence. When the character you want is displayed, press the <RIGHT ARROW> key to 'lock in' the letter. If your next character is a letter, you must press the <BLUE> key again.

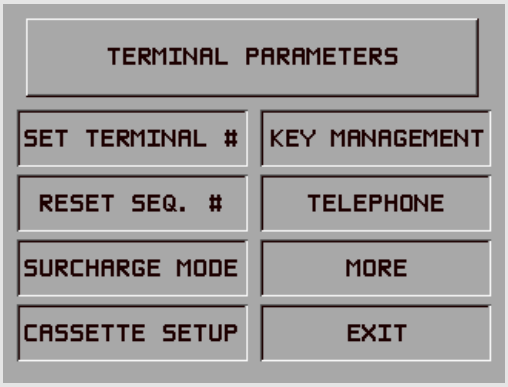
The name can be up to 18 characters long.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: TERMINAL PARAMETERS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.

DESCRIPTION:

Selecting SET TERMINAL PARAMETERS from the TERMINAL CONFIGURATION menu allows the following Cash Dispenser operating parameters to be viewed or changed:

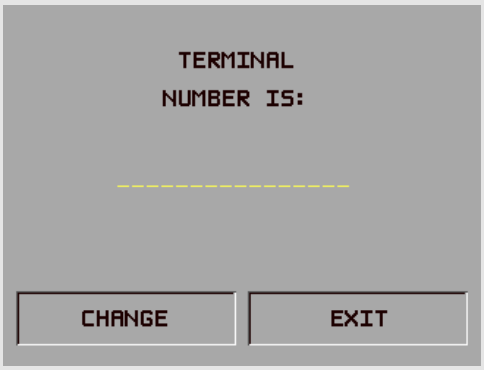
1.) SET TERMINAL #
2.) RESET SEQ #
3.) SURCHARGE MODE
4.) CASSETTE SETUP
5.) KEY MANAGEMENT
6.) TELEPHONE
7.) MORE

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET TERMINAL



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose the SET TERMINAL # option.

DESCRIPTION:

The TERMINAL # is a unique string of characters provided by your processor to identify the Cash Dispenser when a transaction is taking place. It can contain numbers and letters. The minimum number of characters is 6 and the maximum is 16.

This parameter MUST be set before the Cash Dispenser can go on-line AND before the communications key can be downloaded.

When this function is selected, the current TERMINAL # is displayed. If it is to be changed, select CHANGE.

To enter a digit 0-9, press the key that has that digit. To enter a letter, first press the <BLUE> key, then press the key that has the letter you want on it. The first press of the key will display the first character above the number. Subsequent presses will display the characters in sequence. When the character you want is displayed, press the <RIGHT ARROW> key to 'lock in' the letter. If your next character is a letter, you must press the <BLUE> key again.

When you have entered all of the characters, press the <OK> key.

ERROR CONDITIONS:

The Cash Dispenser will not function on-line without a valid TERMINAL #.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: RESET SEQ #

FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose the RESET SEQ # option.

DESCRIPTION:

NOTE: This feature is not supported by all processors.

Select the RESET SEQ. # option from the TERMINAL PARAMETER menu to reset the sequence number that is printed on the journal printout and receipt to **'00000000'**.

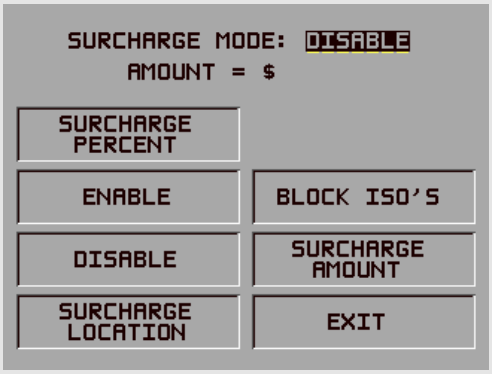
Resetting the SEQUENCE # is an operation that should usually be performed at the request of your processor. Use of this function is not required during normal operation.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SURCHARGE MODE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose the SURCHARGE MODE option.

DESCRIPTION:

Selecting the SURCHARGE MODE option from the SET TERMINAL PARAMETERS menu allows the terminal operator or service technician to change the following surcharge options:

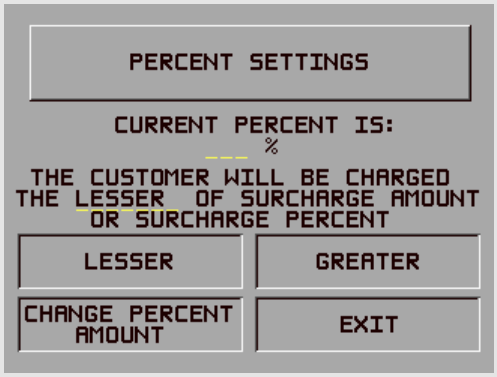
1.) SURCHARGE PERCENT
2.) ENABLE/DISABLE SURCHARGE MODE
3.) SURCHARGE LOCATION
4.) BLOCK ISO'S
5.) SURCHARGE AMOUNT

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SURCHARGE PERCENT



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose the SURCHARGE MODE option.
4.) Select SURCHARGE PERCENT.

DESCRIPTION:

The SURCHARGE PERCENT option on the SURCHARGE MODE screen brings up the PERCENT SETTINGS screen, which enables you to enter a surcharge percentage amount, as well as choose the LESSER or GREATER option that is applicable to the surcharge. *Remember that these options must conform to the processor's requirements or other applicable commerce regulations*.

To enter a surcharge percent value press the CHANGE PERCENT AMOUNT key. the ENTER NEW AMOUNT AND PRESS OK prompt replaces the CURRENT PERCENT IS: field. Enter the applicable percentage value (from 1 and 99 percent) and press "OK".

If the processor or other authority requires that the surcharge be the *lesser* of either the surcharge amount or surcharge percentage, select the LESSER option. If the surcharge must be the *greater* of either the surcharge amount or surcharge percentage, select the GREATER option.

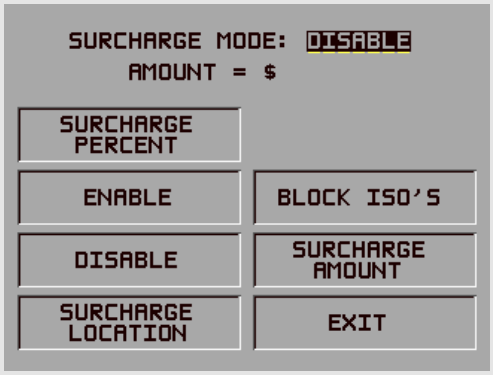
This value is stored in the terminal and will be displayed to the customer on the applicable surcharge message screen. The percent settings must be correct to ensure surchargfe messages CUSTOM-G and CUSTOM-H are accurate!

ERROR CONDITIONS:

If a fixed surcharge amount is to be used (surcharge percent not used) you must ensure the surcharge comparison option is set to GREATER and the surcharge percent is set to zero (0). This will ensure that only the fixed surcharge amount value will be displayed to the customer. ***Failure to do so can cause an incorrect surcharge value to be reported to the customer.***

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENABLE/DISABLE SURCHARGE



FACTORY DEFAULT: DISABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose the SURCHARGE MODE option.
4.) Select ENABLE or DISABLE, as appropriate.

DESCRIPTION:

Some networks allow a surcharge, or terminal fee, to be imposed on withdrawal transactions. If surcharges are in use on your network, you are required to notify the customer of an additional fee before the transaction is processed. He or she must be given a chance to cancel the transaction. Setting the SURCHARGE MODE to ENABLED will cause a surcharge notification screen to be displayed at some point prior to final processing of the transaction. The customer is given the choice of canceling the transaction at no charge or of continuing.

If your network does not allow surcharges, select the DISABLE option to turn off presentation of the surcharge notification message.

ERROR CONDITIONS:

Be sure to ENABLE this mode if your network allows surcharges.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SURCHARGE LOCATION

FACTORY DEFAULT: BEGINNING

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose the SURCHARGE MODE option.
4.) Choose the SURCHARGE LOCATION option.

DESCRIPTION:

The SURCHARGE LOCATION function determines where the terminal user is presented with the surcharge notification message. The surcharge notification message informs the customer about any surcharge that is applicable to the transaction they are completing. When the message appears the terminal user is given the option of accepting the surcharge and continuing the transaction, or canceling the transaction without incurring any charges. The surcharge amount identified in the notification message does not include any additional charges that the bank sponsoring the card may add to the cost of processing a transaction.

Selecting the BEGINNING option displays the applicable surcharge notification message immediately after the terminal user removes the card from the card reader and before their PIN is entered into the terminal.

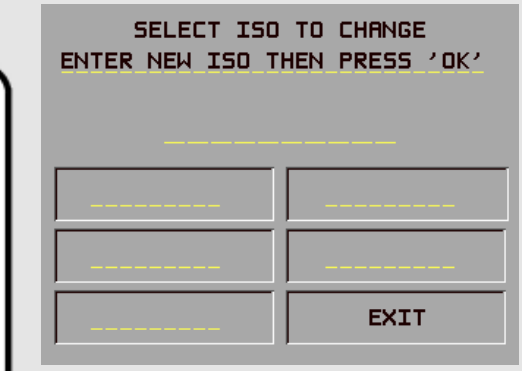
Selecting the ENDING option displays the surcharge notification message after the terminal user has selected an amount from the FAST CASH menu or entered the amount of the withdrawal and pressed the “<OK>” key to complete the transaction.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: BLOCK ISO'S



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose the SURCHARGE MODE option.
4.) Choose the BLOCK ISO'S option.

DESCRIPTION:

This function is used to block surcharging and to disable the display of surcharge messages for transactions that use a particular financial institution's ATM or Credit Card. Entering the financial institution's unique ISO (International Standards Organization) Number on this screen enables the function.

The terminal can store up to 100 ISO numbers to block at one time; however, only 5 numbers can be entered using the BLOCK ISO's screen. Additional ISO numbers (up to the 100-number limit) must be downloaded to the terminal using Triton Connect management software.

From 1 to 9 digits may be used. The terminal will compare the card number to all current ISO numbers to the length of each number. For example, three ISO numbers are entered , including '581234', '46', and '3785'. Any card beginning with '46' would match and cause the surcharge notification message to be suppressed (if surcharging were enabled). A card with the starting number '581235' would not match and therefore a surcharge message would appear. With this technique cards from many issuers can be supported. The more digits entered the fewer the number of different cards that will match.

If a card number matches an ISO number to be blocked, the customer will not see the surcharge notification screen. The processor will also be notified of this in the transaction. Most processors support this function. Before enabling this feature, check to make sure your particular processor supports it. Otherwise, your terminal could be in violation of network rules and be sanctioned.

To enter or change an ISO go to the SELECT ISO TO CHANGE screen and perform the following:

1.) Press the Screen Key next to the block where the new ISO will be entered or an ISO changed.

2.) Enter the ISO number (up to six digits in length).

3.) Press the "<OK>" key.

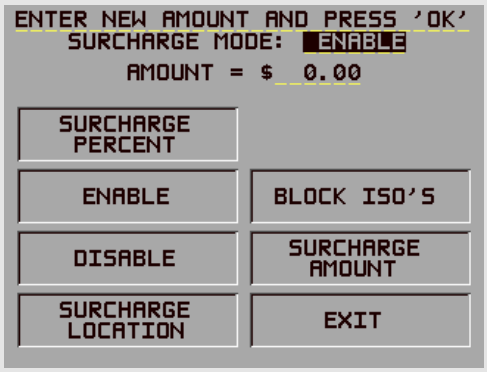
If more than one ISO must be entered repeat steps 1 through 3 until all ISO are entered (up to five ISO numbers may be entered). As noted previously, additional ISO numbers can be entered via Triton Connect, up to the 100-number limit.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SURCHARGE AMOUNT



FACTORY DEFAULT: '$0.00'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose the SURCHARGE MODE option.
4.) Choose the SURCHARGE AMOUNT option.

DESCRIPTION:

The surcharge amount will be entered directly on the SURCHARGE MODE screen. The value you enter here will be displayed to the user in the surcharge notification message that was selected via the SURCHARGE OPTIONS SCREEN function. Press the SURCHARGE AMOUNT menu key. The ENTER NEW AMOUNT AND PRESS 'OK' prompt will appear. Enter a new value. This value will appear in the "AMOUNT = _ _ _ _ _" field that will appear on the SURCHARGE MODE screen. The value will be stored in the terminal and displayed to the customer in the surcharge notification message. See **ERROR CONDITIONS:** for additional information on this feature.

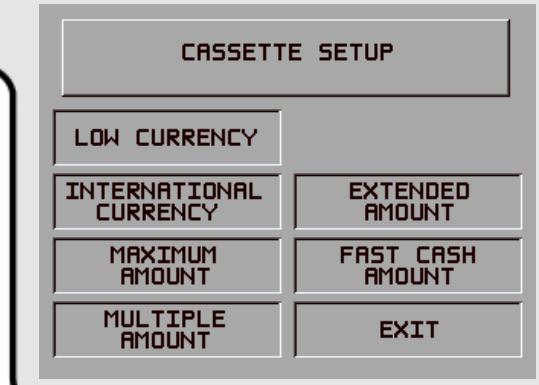
ERROR CONDITIONS:

It is important to understand that processor or network rules and/or applicable commerce laws ultimately determine the type and amount of any surcharge that may be assessed against a transaction. The surcharge values that you enter will be displayed to the customer and MUST match the actual surcharge rates established by your processor or other applicable regulatory agencies!

Manually changing the SURCHARGE AMOUNT to a lower or higher amount does not automatically change the surcharge collected by the processor for a transaction. It will only change the surcharge amount displayed during the surcharge-warning message when it is shown to the customer and not the actual fee collected for the transaction.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: CASSETTE SETUP



FACTORY DEFAULT: N/A

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select CASSETTE SETUP.

DESCRIPTION:

Selecting CASSETTE SETUP at the TERMINAL PARAMETERS menu allows the terminal operator to view and change the following parameters:

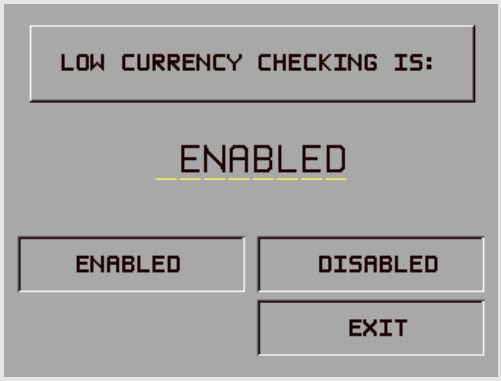
1.) LOW CURRENCY
2.) INTERNATIONAL CURRENCY
3.) MAXIMUM AMOUNT
4.) MULTIPLE AMOUNT
5.) EXTENDED AMOUNT
6.) FAST CASH AMOUNT

ERROR CONDITIONS:

There are no errors directly associated with the CASSETTE SETUP function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: LOW CURRENCY



FACTORY DEFAULT: ENABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select CASSETTE SETUP.
4.) Choose the LOW CURRENCY option.

DESCRIPTION:

This function is used to enable or disable low currency checking on the dispenser mechanism. If LOW CURRENCY CHECKING is ENABLED, the Cash Dispenser will go out of service (it will display an ERROR 182) when the cash cassette gets down to approximately 60 notes. Enabling LOW CURRENCY CHECKING will prevent the need for reversals because there will never be a partial dispense.

If LOW CURRENCY CHECKING is DISABLED, the Cash Dispenser will not go out of service until the cassette is completely empty. This may result in the need to reverse the last withdrawal due to a partial dispense occurring. In the event of a partial dispense, or no dispense, the terminal will automatically inform the Processor and the customers account will be correctly credited. The record of the successful reversal will be recorded in the journal record.

ERROR CONDITIONS:

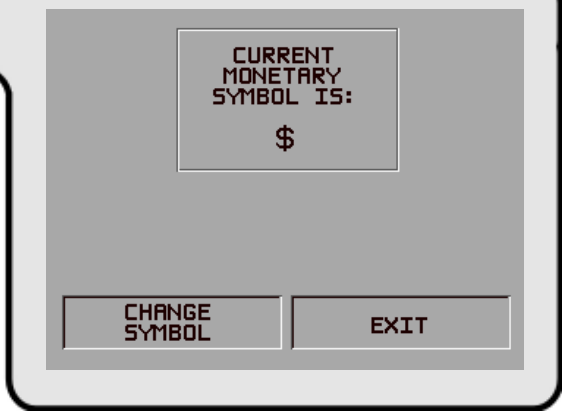
When the cassette runs out of money during a dispense operation an Error Code 33 (feed failure) will be displayed and the terminal will go out of service. If the error condition is reset with less than about 1/2" to 3/4" of bills in the cassette an error code 182 will be displayed (even with LOW CURRENCY CHECKING disabled). To avoid this the Cash Dispenser must be reset with the cassette out of the dispenser, or more than 60 bills must be loaded into the cassette.

****NOTE****

If the cassette runs out of currency during a dispense, the terminal will generate another call to the processor to reverse the amount not dispensed. Do not reset or turn off the terminal during this call. Doing so will cause the reversal to fail and result in an out of balance condition.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: INTERNATIONAL CURRENCY



FACTORY DEFAULT: COUNTRY-SPECIFIC

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select CASSETTE SETUP.
4.) Choose the INTERNATIONAL CURRENCY option.

DESCRIPTION:

This feature will allow operator personnel to select one of nine possible monetary symbols (C, ¢, $, *f*, L, P_t., £, Q, ¥) that describe the type of currency that will be dispensed by the Cash Dispenser. The default symbol can be viewed and changed through the terminals' Management Functions.

Monetary symbols for use with following currencies are supported by the Cash Dispenser:

1.) C - The symbol for the Colon (Costa Rica)
2.) ¢ - The symbol for the Colon (El Salvador)
3.) $ - The symbol of the Dollar and Peso
4.) *f* - The symbol for the Franc
5.) L - The symbol for the Lempira
6.) Pt - The symbol for the Peseta
7.) £ - The symbol for the Pound
8.) Q - The symbol for the Quetzal
9.) ¥ - The symbol for the Yen

When the INTERNATIONAL CURRENCY menu is displayed, press the screen key next to the CHANGE SYMBOL option until the desired currency symbol is displayed. Press EXIT to make that symbol the default symbol displayed on the terminal.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: MAXIMUM AMOUNT

FACTORY DEFAULT: '$500.00'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select CASSETTE SETUP.
4.) Choose the MAXIMUM AMOUNT option.

DESCRIPTION:

The maximum cash withdrawal limit must be set in the Cash Dispenser before any transactions can be completed. This number is the largest dollar amount allowed for a withdrawal transaction. It can be set from 1 to 999999 in increments of 1 and it must be an even multiple of the denomination that is in the cassette. Factory default is set to **$500.00**. The value is dollar amount only; no cents are allowed.

Whenever a withdrawal amount is entered or selected (via the FAST CASH option), the amount entered or selected is compared to this amount. If the entry is larger, an error message warns the user and displays the maximum allowable amount.

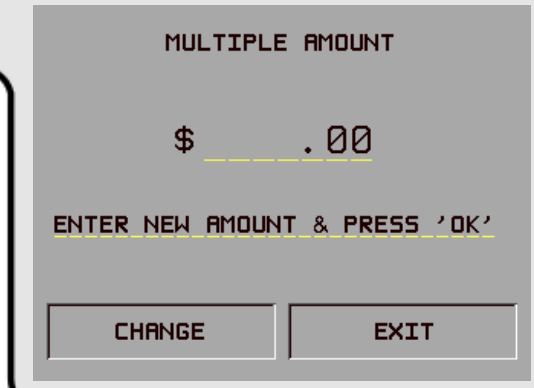
This amount DOES NOT override any maximum set by a network. The transaction will be sent to the network if the amount entered or selected is less than or equal to the maximum. *The network must still approve the amount*.

ERROR CONDITIONS:

The MAXIMUM AMOUNT cannot be more than **50 times** the MULTIPLE AMOUNT.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: MULTIPLE AMOUNT



FACTORY DEFAULT: '$0.00'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select CASSETTE SETUP.
4.) Choose the MULTIPLE AMOUNT option.

DESCRIPTION:

The MULTIPLE AMOUNT must be set in the Cash Dispenser before any transactions can be processed. This number is the denomination of the currency installed in the currency cassette. It can be set to any value, *as long as this value is no less than 1/50th of the MAXIMUM AMOUNT*. Typical values might be 10, 20, 50, or 100.

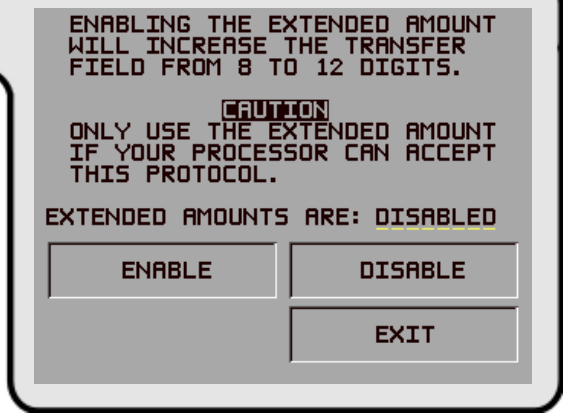
Whenever a withdrawal transaction is performed, the amount entered or selected is compared to the MULTIPLE AMOUNT. If the entry is not a even multiple of this amount, an error warns the terminal user and displays the current multiple amount.

ERROR CONDITIONS:

If the MULTIPLE AMOUNT is not set correctly, the terminal will respond by going into Configuration Error 186, BILL SIZE NOT CONFIGURED CORRECTLY. To correct the error condition enter the management functions and configure the bill size (MULTIPLE AMOUNT) to the size of the bill in the cassette.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: EXTENDED AMOUNT



FACTORY DEFAULT: DISABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select CASSETTE SETUP.
4.) Choose the EXTENDED AMOUNT option.

DESCRIPTION:

The standard length of a currency amount entry field is 8 digits. In some applications this length is insufficient to allow the entry of the full range of customer transaction values in the local currency type. This feature allows the selection of 12-digit currency fields for those applications that require it.

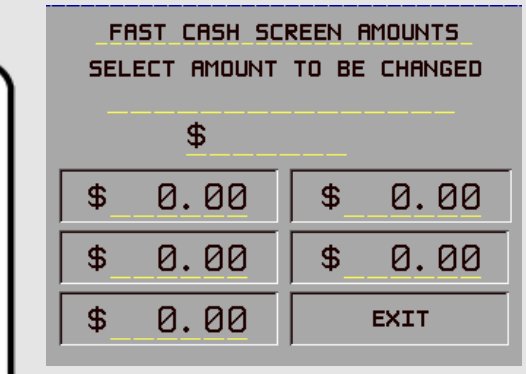
To activate 12-digit field lengths, select the ENABLE option. To return to 8-digit field lengths, choose the DISABLE option.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: FAST CASH AMOUNT



FACTORY DEFAULT: PROCESSOR-SPECIFIC

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select CASSETTE SETUP.
4.) Choose the FAST CASH AMOUNT option.

DESCRIPTION:

During a withdrawal transaction the FAST CASH screen prompts the customer to select the amount of the withdrawal from a list of five convenient amounts. These amounts are entered by the terminal operator using the FAST CASH AMOUNT function. Up to six digits (more with software versions that support extended field lengths) can be entered into any data field accepting a monetary value.

Selecting this function displays the FAST CASH SCREEN AMOUNTS screen. Press the screen key next to the amount to be changed, and it will begin to blink. Enter the new amount (whole dollar amount only), and then press the <OK> key. The value will replace the blinking amount.

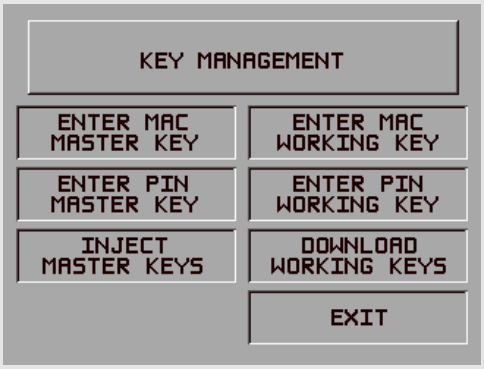
The amounts entered must be even multiples of the denomination in the cassette. The amounts do not have to be in any particular order, although typically, they increase in value moving from upper left and down, then upper right and down. *DO NOT enter an amount that is larger than the MAXIMUM WITHDRAWAL AMOUNT.*

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: KEY MANAGEMENT



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose the KEY MANAGEMENT option.

DESCRIPTION:

The KEY MANAGEMENT function provides access to Cash Dispenser functions that control the method of entry for the Master Key and the Comms (Communications) Key. The functions accessed through this menu are listed below:

1.) ENTER MAC MASTER KEY
2.) ENTER PIN MASTER KEY (Formerly known as the “MASTER KEY”)
3.) INJECT MASTER KEYS
4.) ENTER MAC WORKING KEY
5.) ENTER PIN WORKING KEY (Formerly known as the “COMMS KEY”)
6.) DOWNLOAD WORKING KEYS

ERROR CONDITIONS:

IMPORTANT: The MAC MASTER KEY must be entered before the MAC Working key. Likewise, the PIN MASTER KEY must be entered before the PIN Working key.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENTER MAC MASTER KEY

FACTORY DEFAULT: PROCESSOR-SPECIFIC

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select KEY MANAGEMENT.
4.) Choose the ENTER MAC MASTER KEY option.

DESCRIPTION:

NOTE: The MAC MASTER KEY feature is applicable only to terminals using Triton Standard ATM software and a Secure Pin Entry Device (SPED) module.

IMPORTANT: The MAC MASTER KEY must be entered before the MAC Working key.

MAC is an acronym for Message Authentication Code. The MAC MASTER KEY is used to protect the MAC WORKING KEY during manual entry or downloading of the working key. The MAC MASTER KEY is a 16-character string, consisting of the digits 0-9 and the letters A-F. Your processor must provide you with the MAC MASTER KEY. If a MAC authentication attempt on a message fails, the message will fail. This is a security precaution.

For security reasons, when entering this key, a '*' is displayed in place of the actual character. Since it is not possible to view the key while it is entered, the key must entered in twice to make sure it was entered properly.

To enter a digit 0-9, simply press the key that has that digit, and a '*' will appear. To enter the letters A-F, first press the <BLUE> key, then press the key that has the letter you want on it. The first press of the key will display the first character above the number. Subsequent presses will display the characters in sequence. When the character you want is displayed, press the <RIGHT ARROW> key to 'lock in' the letter. If your next character is a letter, you must press the <BLUE> key again. Press the <CHANGE> key to clear the entry and start over. Press the <LEFT ARROW> key to back up and erase a character.

Normally, the MAC MASTER KEY contains only one part. However, some keys may contain multiple parts. If this is the case, separate individuals will hold the parts. If your key has multiple parts you must answer the question "ANOTHER KEY PART?", with a YES until all parts are entered.

The CHECK DIGIT that appears after all parts of the MAC MASTER KEY have been entered is similar to the checksum that is used to verify that the data programmed into a memory device such as an EPROM is correct. The CHECK DIGIT can be verified by doing a RECEIPT PRINTER TEST from the DIAGNOSTICS Menu and comparing the MAC MASTER KEY CHECK DIGIT on the printout to the original receipt printout from the initial terminal setup. If the CHECK DIGIT is different from the original, and the terminal is not operating correctly, the MAC MASTER KEY is corrupt and you should contact your service organization for assistance.

ERROR CONDITIONS:

If the MAC MASTER KEY is not entered correctly, no message traffic can take place, so be sure to enter the key accurately. If your second entry of the key does not match the first entry, you will be warned and allowed to start over with the first entry.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENTER PIN MASTER KEY

FACTORY DEFAULT: PROCESSOR-SPECIFIC

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select KEY MANAGEMENT.
4.) Choose the ENTER PIN MASTER KEY option.

DESCRIPTION:

IMPORTANT: The PIN MASTER KEY must be entered before the PIN Working key.

NOTE: The PIN MASTER KEY was referred to as the MASTER KEY in previous versions of ATM software.

The PIN MASTER KEY is used to protect the PIN WORKING KEY during manual entry or downloading of the working key. This key is a 16-character string, consisting of the digits 0-9 and the letters A-F. Your processor must provide you with the PIN MASTER KEY.

For security reasons, when entering this key, a '*' is displayed in place of the actual character. Since it is not possible to view the key while it is entered, the key must entered in twice to make sure it was entered properly.

To enter a digit 0-9, simply press the key that has that digit, and a '*' will appear. To enter the letters A-F, first press the <BLUE> key, then press the key that has the letter you want on it. The first press of the key will display the first character above the number. Subsequent presses will display the characters in sequence. When the character you want is displayed, press the <RIGHT ARROW> key to 'lock in' the letter. If your next character is a letter, you must press the <BLUE> key again. Press the <CHANGE> key to clear the entry and start over. Press the <LEFT ARROW> key to back up and erase a character.

Normally, the PIN MASTER KEY contains only one part. However, some keys may contain multiple parts. If this is the case, separate individuals will hold the parts. If your key has multiple parts you must answer the question "ANOTHER KEY PART?", with a YES until all parts are entered.

SECTION 2 - INSTALLATION AND SETUP

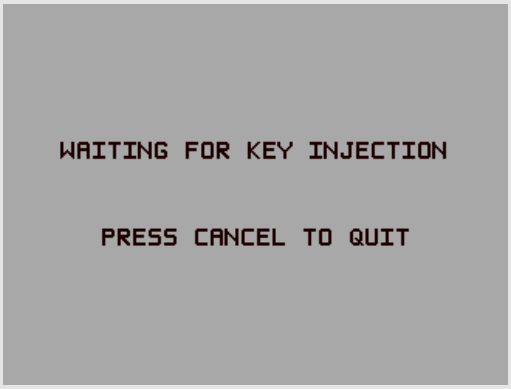
The CHECK DIGIT that appears after all parts of the PIN MASTER KEY have been entered is similar to the checksum that is used to verify that the data programmed into a memory device such as an EPROM is correct. The CHECK DIGIT can be verified by doing a RECEIPT PRINTER TEST from the DIAGNOSTICS Menu and comparing the PIN MASTER KEY CHECK DIGIT on the printout to the original receipt printout from the initial terminal setup. If the CHECK DIGIT is different from the original, and the terminal is not operating correctly, the PIN MASTER KEY is corrupt, and you should contact your service organization for assistance.

ERROR CONDITIONS:

If the PIN MASTER KEY is not entered correctly, no message traffic can take place, so be sure to enter the key accurately. If your second entry of the key does not match the first entry, you will be warned and allowed to start over with the first entry.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: INJECT MASTER KEYS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select KEY MANAGEMENT.
4.) Choose the INJECT MASTER KEYS option.

DESCRIPTION:

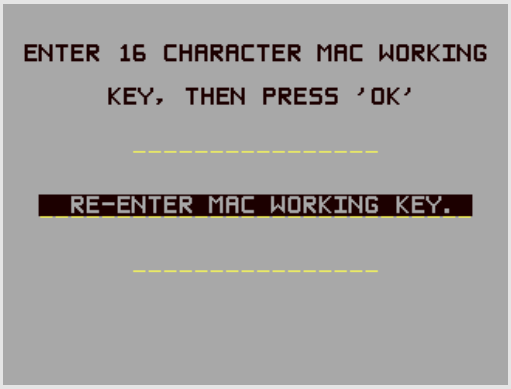
The INJECT MASTER KEYS function is used in conjunction with a PC (Personnel Computer) and a special floppy disk to inject the master keysfrom the PC into a designated terminal. Selecting INJECT MASTER KEYS will cause the terminal to prepare for the load of the master keys from the PC, using a serial data cable.

ERROR CONDITIONS:

Do not connect the load port on the Cash Dispenser to the parallel (printer) port of the PC!

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENTER MAC WORKING KEY



FACTORY DEFAULT: PROCESSOR-SPECIFIC

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select KEY MANAGEMENT.
4.) Choose the ENTER MAC WORKING KEY option.

DESCRIPTION:

MAC is an acronym for Message Authentication Code. The MAC WORKING KEY is used to verify messages to and from the terminal. The MAC WORKING KEY is a 16-character string, consisting of the digits 0-9 and the letters A-F. Your processor must provide you with the MAC WORKING KEY. If a MAC authentication attempt on a message fails, the message will fail. This is a security precaution.

For security reasons, when entering this key, a '*' is displayed in place of the actual character. Since it is not possible to view the key while it is entered, the key must entered in twice to make sure it was entered properly.

To enter a digit 0-9, simply press the key that has that digit, and a '*' will appear. To enter the letters A-F, first press the <BLUE> key, then press the key that has the letter you want on it. The first press of the key will display the first character above the number. Subsequent presses will display the characters in sequence. When the character you want is displayed, press the <RIGHT ARROW> key to 'lock in' the letter. If your next character is a letter, you must press the <BLUE> key again. Press the <CHANGE> key to clear the entry and start over. Press the <LEFT ARROW> key to back up and erase a character.

Normally, the MAC WORKING KEY contains only one part. However, some keys may contain multiple parts. If this is the case, separate individuals will hold the parts. If your key has multiple parts you must answer the question "ANOTHER KEY PART?", with a YES until all parts are entered.

SECTION 2 - INSTALLATION AND SETUP

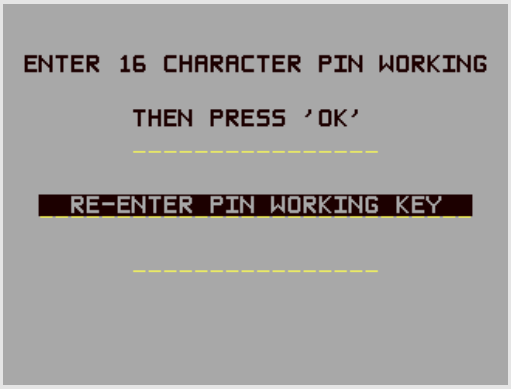
The CHECK DIGIT that appears after all parts of the MAC WORKING KEY have been entered is similar to the checksum that is used to verify that the data programmed into a memory device such as an EPROM is correct. The CHECK DIGIT can be verified by doing a RECEIPT PRINTER TEST from the DIAGNOSTICS Menu and comparing the MAC WORKING KEY CHECK DIGIT on the printout to the original receipt printout from the initial terminal setup. If the CHECK DIGIT is different from the original, and the terminal is not operating correctly, the MAC WORKING KEY is corrupt, and you should contact your service organization for assistance.

ERROR CONDITIONS:

If the MAC WORKING KEY is not entered correctly, no message traffic can take place, so be sure to enter the key accurately. If your second entry of the key does not match the first entry, you will be warned and allowed to start over with the first entry.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENTER PIN WORKING KEY



FACTORY DEFAULT: PROCESSOR-SPECIFIC

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select KEY MANAGEMENT.
4.) Choose the ENTER PIN WORKING KEY option.

DESCRIPTION:

NOTE: The PIN WORKING KEY was referred to as the COMMS KEY in previous versions of ATM software.

The PIN WORKING KEY is used to verify the customer Personal Identification Number during live transactions. This key is a 16-character string, consisting of the digits 0-9 and the letters A-F. Your processor must provide you with the PIN WORKING KEY.

For security reasons, when entering this key, a '*' is displayed in place of the actual character. Since it is not possible to view the key while it is entered, the key must entered in twice to make sure it was entered properly.

To enter a digit 0-9, simply press the key that has that digit, and a '*' will appear. To enter the letters A-F, first press the <BLUE> key, then press the key that has the letter you want on it. The first press of the key will display the first character above the number. Subsequent presses will display the characters in sequence. When the character you want is displayed, press the <RIGHT ARROW> key to 'lock in' the letter. If your next character is a letter, you must press the <BLUE> key again. Press the <CHANGE> key to clear the entry and start over. Press the <LEFT ARROW> key to back up and erase a character.

Normally, the PIN WORKING KEY contains only one part. However, some keys may contain multiple parts. If this is the case, separate individuals will hold the parts. If your key has multiple parts you must answer the question "ANOTHER KEY PART?", with a YES until all parts are entered.

SECTION 2 - INSTALLATION AND SETUP

The CHECK DIGIT that appears after all parts of the PIN WORKING KEY have been entered is similar to the checksum that is used to verify that the data programmed into a memory device such as an EPROM is correct. The CHECK DIGIT can be verified by doing a RECEIPT PRINTER TEST from the DIAGNOSTICS Menu and comparing the PIN WORKING KEY CHECK DIGIT on the printout to the original receipt printout from the initial terminal setup. If the CHECK DIGIT is different from the original, and the terminal is not operating correctly, the PIN WORKING KEY is corrupt, and you should contact your service organization for assistance.

ERROR CONDITIONS:

If the PIN WORKING KEY is not entered correctly, no message traffic can take place, so be sure to enter the key accurately. If your second entry of the key does not match the first entry, you will be warned and allowed to start over with the first entry.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: DOWNLOAD WORKING KEYS

FACTORY DEFAULT: PROCESSOR-SPECIFIC

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select KEY MANAGEMENT.
4.) Choose the DOWNLOAD WORKING KEYS option.

DESCRIPTION:

The WORKING KEYS are the MAC and PIN WORKING KEYS, as described earlier. They are made up of 16-character strings, consisting of the digits 0-9 and the letters A-F. Your processor may provide you with the WORKING KEYS, or they may be downloaded from the processor host computer.

These keys must be loaded before the Cash Dispenser can operate in a live mode.

When the DOWNLOAD WORKING KEYS function is run, a call is placed to your host computer, and a request is made for the keys to be sent. The host will send the keys and several other parameters (such as the surcharge amount, if applicable). Once downloaded, these parameters will remain in the Cash Dispenser, even if it is turned off.

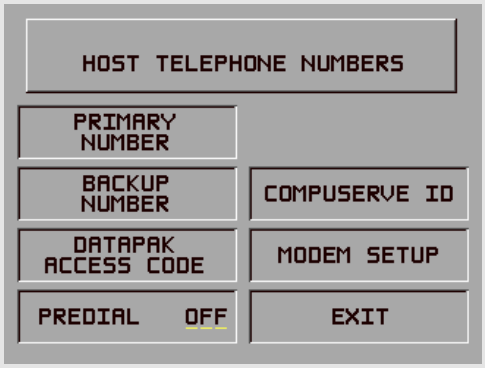
The TERMINAL NUMBER and PRIMARY PHONE NUMBER must be set before completing this function. If they are not set correctly, the WORKING KEYS will not be downloaded.

ERROR CONDITIONS:

If the call cannot be completed, a warning screen will be displayed. If the function continues to fail, contact your service organization for assistance.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: TELEPHONE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.

DESCRIPTION:

The TELEPHONE function is used to set up parameters that control telephone communications between the Cash Dispenser and the Processor. The following parameters are accessed through this function.

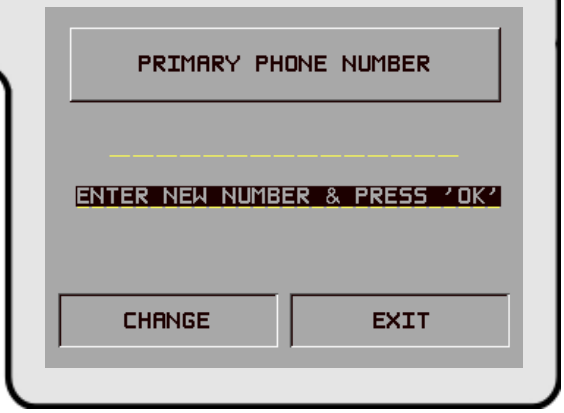
1.) PRIMARY NUMBER
2.) BACKUP NUMBER
3.) DATAPAK ACCESS CODE (This feature is only available for ATMs deployed in Canada.)
4.) PREDIAL ON/OFF
5.) COMPUSERVE ID
6.) MODEM SETUP

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: PRIMARY NUMBER



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.
4.) Select the PRIMARY NUMBER option.

DESCRIPTION:

The Cash Dispenser communicates to your host processor over a dial up phone line. The phone number of the processor must be entered before live transactions can be performed.

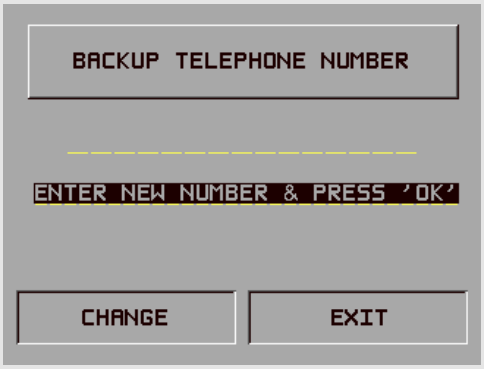
When this function is selected, the current phone number is displayed (if nothing appears on the screen, no number is set). Select CHANGE to blank the current entry, and then enter the desired phone number. The phone number may be up to 30 digits long. It can also contain a dialing prefix, such as a '9' for an outside line, if necessary. If you need to pause after the prefix, place a comma in the number for a two-second delay at that point. Pressing the <BLUE> key first, then the <0> key, followed by the <RIGHT ARROW> key will select the comma character. Make sure to enter the long distance prefix '1' if you are dialing an 800 number or a toll long distance number. Do not enter dashes in the number.

ERROR CONDITIONS:

The Cash Dispenser will not process transactions if the phone number has not been entered or has been entered incorrectly. In such cases error code "**185 - Phone Number Not Configured**", will be received.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: BACKUP NUMBER



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.
4.) Select the BACKUP NUMBER option.

DESCRIPTION:

The Cash Dispenser communicates with your Processors' host computer over a dial up phone line. Some processors allow a backup phone number to try if the primary number fails to connect.

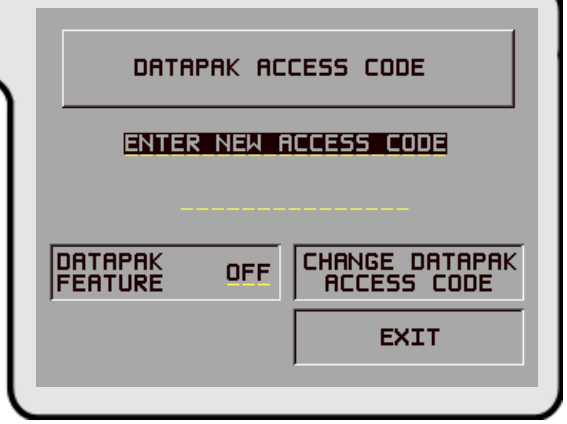
When this function is selected, the current phone number is displayed (if nothing appears on the screen, no number is set). Select CHANGE to blank the current entry, and then enter the desired phone number. The phone number may be up to 30 digits long. It can also contain a dialing prefix, such as a '9' for an outside line, if necessary. If you need to pause after the prefix, place a comma in the number for a two-second delay at that point. Pressing the <BLUE> key first, then the <0> key, followed by the <RIGHT ARROW> select the comma. Make sure to enter the long distance prefix '1' if you are dialing an 800 number or a toll long distance number. Do not enter dashes in the number.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: DATAPAK ACCESS CODE



FACTORY DEFAULT: OFF

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.
4.) Select DATAPAK ACCESS CODE.

DESCRIPTION:

NOTE: This feature is only available for the Triton Standard Canadian version of ATM operating software.

This function allows you to enter the DATAPAK ACCESS CODE, and to turn the DataPak feature On or OFF. The DATAPAK ACCESS CODE is provided by the DataPak processing organization, and is an identification number which enables the DataPak processing organization to correctly identify and route data traffic between the terminal and the transaction processor.

The current state of the DATAPAK ACCESS CODE feature is shown as either ON or OFF in the label on the left-hand side of the display. Press the button next to this label to toggle the state of the feature between ON and OFF.

IMPORTANT: When using the DATAPAK communications protocol, ensure the terminal's Primary and Backup Telephone Numbers are configured to dial the DataPak processing organization (NOT the transaction processor!).

ERROR CONDITIONS:

If a DATAPAK-based communications network is being used, the DATAPAK ACCESS CODE feature must turned ON and the code must be entered correctly to enable message traffic between the ATM and the processor to take place.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: PREDIAL ON/OFF

FACTORY DEFAULT: OFF

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.

DESCRIPTION:

This function allows you to turn on or off the PREDIAL feature. When the feature is turned ON, the terminal will dial out to the processor and establish a connection as soon as the customer's ATM or credit card has been scanned by the card reader. The purpose of this mode of operation is to provide quicker processing of customer transactions. When the feature is turned OFF, the terminal will wait until the customer has selected a particular transaction before dialing out and establishing a connection with the processor.

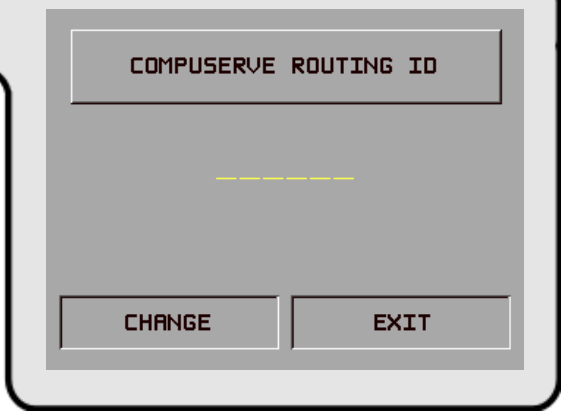
The current state of the PREDIAL feature is shown as either ON or OFF in the label on the left-hand side of the display. Press the button next to this label to toggle the state of the feature between ON and OFF.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: COMPUSERVE ID



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.
4.) Select the COMPUSERVE ID option.

DESCRIPTION:

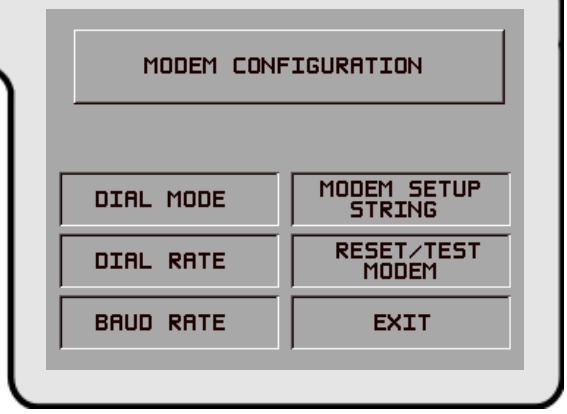
The CompuServe Network is used by some processors to route transactions. The COMPUSERVE ID function allows the terminal operator or a service technician to view and change the COMPUSERVE ROUTING ID number.

ERROR CONDITIONS:

When CompuServe is used as the communication media for sending and receiving transaction data to the Processor, an incorrect CompuServe ID will cause communication between the terminal and the Processor to fail**. Never change the COMPUSERVE ID unless instructed to do so by your processor**.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: MODEM SETUP



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.
4.) Select the MODEM SETUP option.

DESCRIPTION:

Selecting the MODEM SETUP OPTION from the TELEPHONE screen allows the terminal operator to select the following parameters:

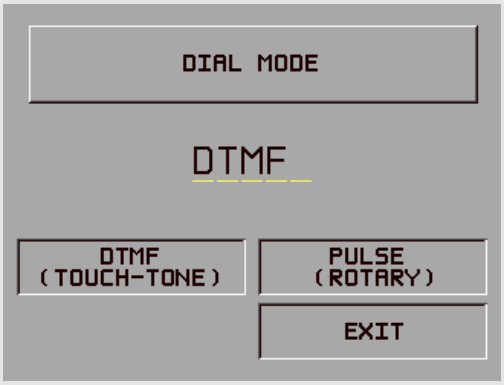
1.) DIAL MODE
2.) DIAL RATE
3.) BAUD RATE
4.) MODEM SETUP STRING
5.) RESET/TEST MODEM

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: DIAL MODE



FACTORY DEFAULT: 'DTMF'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.
4.) Select the MODEM SETUP option.
5.) Select DIAL MODE.

DESCRIPTION:

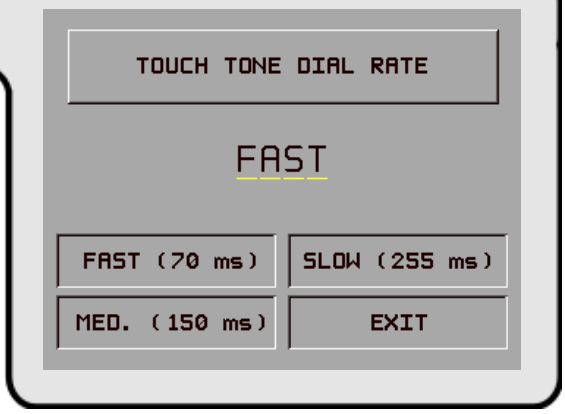
The modem is configured to dial in either the touch-tone mode (DTMF), or in the rotary (PULSE) mode. Consult with the local phone company to determine which option is supported. After selecting the dial mode, be certain to execute the RESET/TEST MODEM function. The new dial mode does not take effect until you do this. The factory default for the function is DTMF.

ERROR CONDITIONS:

If the local phone exchange does not support touch-tone, and the terminal is configured for DTMF mode, no calls will be completed. Rotary will work on touch-tone systems, but should not be used if touch-tone is available. Rotary mode will dial much slower than DTMF.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: DIAL RATE



FACTORY DEFAULT: 'FAST'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.
4.) Select the MODEM SETUP option.
5.) Select DIAL RATE.

DESCRIPTION:

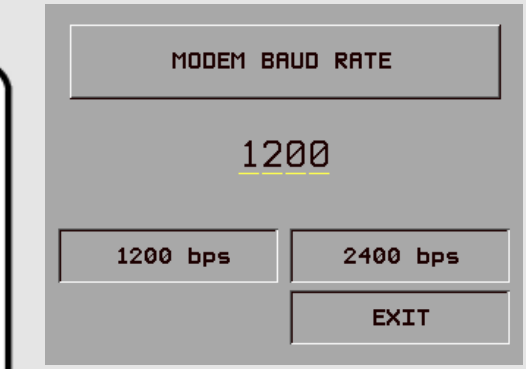
The internal modem can be configured to send dial tones at one of three speeds. The possible values are FAST (70 milliseconds), MED. (150 ms), and SLOW (255 ms). The default value from the factory is FAST. After changing the dial rate, be certain to execute the RESET/TEST MODEM function. The new dial rate does not take effect until you do this.

ERROR CONDITIONS:

There are no error conditions directly associated with this function, but if calls seem to fail, try a slower setting.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: BAUD RATE



FACTORY DEFAULT: '1200'

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.
4.) Select the MODEM SETUP option.
5.) Select BAUD RATE.

DESCRIPTION:

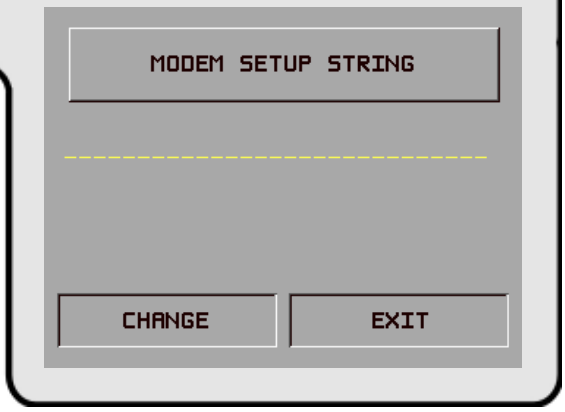
The bit rate of the modem can be controlled with this function. The rate can be set to 2400 or 1200 bits per second (bps). The default rate depends on your processor. Do not select 2400 if your processor does not support it.

ERROR CONDITIONS:

If the speed of the modem is set to 2400 bps, it may not connect to a 1200 bps system. The baud rate of the modem should always be set to the value indicated by your processor.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: MODEM SETUP STRING



FACTORY DEFAULT: MODEM-SPECIFIC

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.
4.) Select the MODEM SETUP option.
5.) Select MODEM SETUP STRING.

DESCRIPTION:

If special circumstances require a nonstandard modem configuration, a Hayes-compatible setup string can be sent to the modem when it is initialized.

ERROR CONDITIONS:

Setting this value incorrectly will cause communication failure due to improper modem setup. **Consult Triton's Technical Service Department before changing this parameter**.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: RESET/TEST MODEM

FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select TELEPHONE.
4.) Select the MODEM SETUP option.
5.) Select RESET/TEST MODEM.

DESCRIPTION:

This function is used to reset and test the internal modem. It should be run after setting any of the modem configuration parameters to make sure an error was not made. It MUST be run after changing the DIAL MODE or DIAL RATE, otherwise these new values will not take effect until the unit is turned off and back on again.

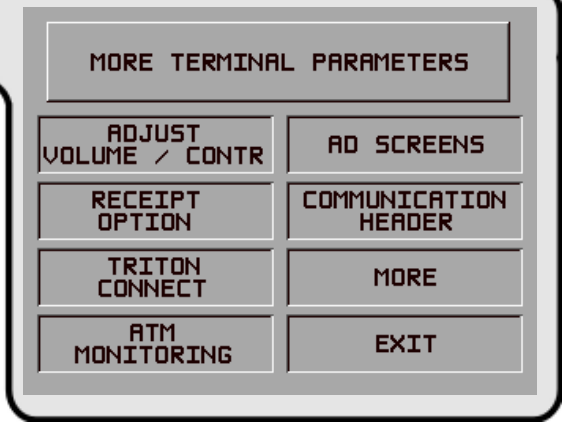
At the conclusion of the test a screen will appear indicating that the MODEM CONFIGURED AND TESTED OK.

ERROR CONDITIONS:

An error message will indicate a problem if the setup string is invalid or the modem is not responding.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: MORE (TERMINAL PARAMETERS)



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.

DESCRIPTION:

Selecting the MORE TERMINAL PARAMETERS option from the TERMINAL PARAMETERS allows the terminal operator or a service technician to view or change the following:

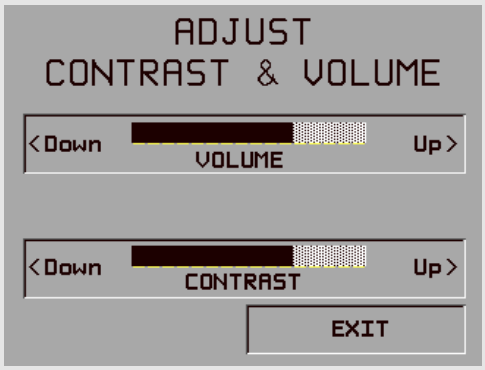
1.) ADJUST VOLUME AND CONTRAST
2.) RECEIPT OPTION
3.) TRITON CONNECT
4.) ATM MONITORING
5.) AD SCREENS
6.) COMMUNICATION HEADER
7.) MORE

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ADJUST VOLUME/CONTR



FACTORY DEFAULT: VOL: Maximum
CONTRAST: Mid-Range

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Choose ADJUST VOLUME/CONTR.

DESCRIPTION:

This feature allows the terminal operator to adjust the speaker volume and the contrast of the display.

To adjust the level of the volume of the beeps emanating from the speaker, press the designated UP or DOWN keys next to the display. Change the contrast of the display by selecting the designated UP or DOWN key to set the display contrast for best viewing.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: RECEIPT OPTION

FACTORY DEFAULT: DISABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Choose RECEIPT OPTION.

DESCRIPTION:

This feature allows the customer to select the option of receiving or not receiving a receipt at the completion of a withdrawal transaction. When RECEIPT OPTION is ENABLED the customer is presented with a message at the conclusion of the transaction asking whether they want a receipt or not. If they respond NO to the question, a receipt is not dispensed. If they respond YES to the question a receipt is printed. If the customer does not respond to the question, a receipt is automatically printed after a forty-second delay.

If you don't want the customer to have this option, DISABLE the RECEIPT OPTION. Customers will then receive a receipt after every transaction.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: TRITON CONNECT

FACTORY DEFAULT: DISABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Choose TRITON CONNECT.

DESCRIPTION:

Selecting the TRITON CONNECT function allows the terminal operator to set up the following parameters associated with Triton Connect:

1.) PRIMARY NUMBER
2.) BACKUP NUMBER
3.) ALARM NUMBERS
4.) CALL BACK (ENABLE\DISABLE)
5.) TRITON CONNECT (ENABLE\DISABLE)

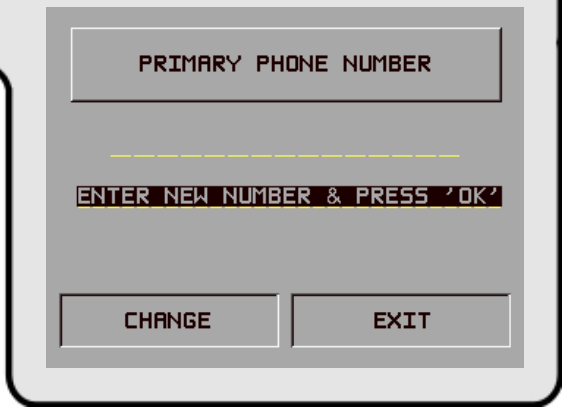
NOTE: Triton Connect is an option and may not be installed on your terminal.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: PRIMARY NUMBER



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select TRITON CONNECT.
5.) Choose PRIMARY NUMBER.

DESCRIPTION:

The PRIMARY NUMBER function is used to enter the number that the terminal can use for calling back the Triton Connect Host Computer.

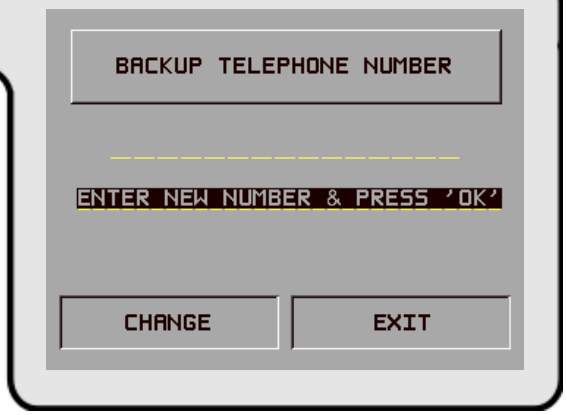
When this function is selected, the current phone number is displayed (if nothing appears on the screen, no number is set). Select CHANGE to blank the current entry, and then enter the desired phone number. The phone number may be up to 30 digits long. It can also contain a dialing prefix, such as a '9' for an outside line, if necessary. If you need to pause after the prefix, place a comma in the number for a two-second delay at that point. Pressing the <BLUE> key first, then the <0> key, followed by the <RIGHT ARROW> key to select the comma character. Make sure to enter the long distance prefix '1' if you are dialing an 800 number or a toll long distance number. Do not enter dashes in the number.

ERROR CONDITIONS::

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: BACKUP NUMBER



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select TRITON CONNECT.
5.) Choose BACKUP NUMBER.

DESCRIPTION:

The BACKUP NUMBER function is used to enter a backup number that the terminal can use for calling back the Triton Connect computer.

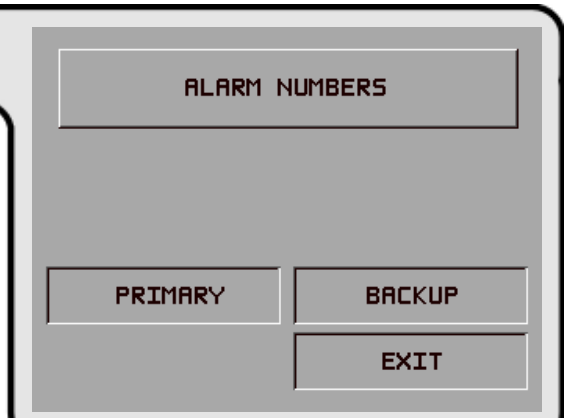
When this function is selected, the current phone number is displayed (if nothing appears on the screen, no number is set). Select CHANGE to blank the current entry, and then enter the desired phone number. The phone number may be up to 30 digits long. It can also contain a dialing prefix, such as a '9' for an outside line, if necessary. If you need to pause after the prefix, place a comma in the number for a two-second delay at that point. Press the <BLUE> key, then the <0> key, followed by the <RIGHT ARROW> key to select the comma character. Make sure to enter the long distance prefix '1' if you are dialing an 800 number or a toll long distance number. Do not enter dashes in the number.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ALARM NUMBERS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Choose TRITON CONNECT.
5.) Choose ALARM NUMBERS.

DESCRIPTION:

In some applications the terminal monitoring organization may require different telephone numbers for alarm reporting purposes. This could enable a third party service organization, for example, to be notified of alarm conditions that can occur during non-business hours. Selecting the ALARM NUMBERS option brings up a menu that allows the terminal operator to select and configure the Primary and Backup Triton Connect Alarm Numbers.

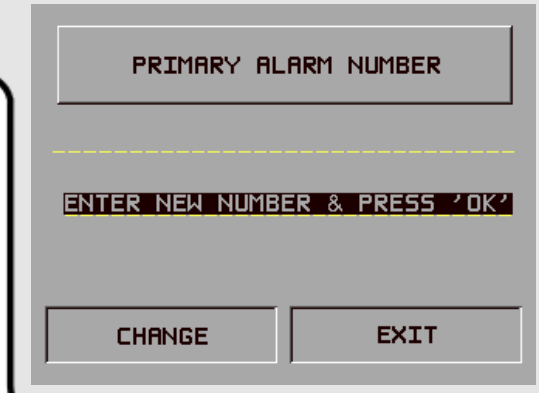
NOTE: Triton Connect is an option and may not be installed on your terminal.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: PRIMARY ALARM NUMBER



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select TRITON CONNECT.
5.) Select ALARM NUMBERS.
6.) Choose PRIMARY.

DESCRIPTION:

The PRIMARY ALARM NUMBER function is used to enter the telephone number that the terminal can use for calling a Triton Connect Host Computer to report alarm conditions.

NOTE: If no primary alarm number is entered, the terminal will default to the PRIMARY TRITON CONNECT NUMBER when placing alarm-initiated calls.

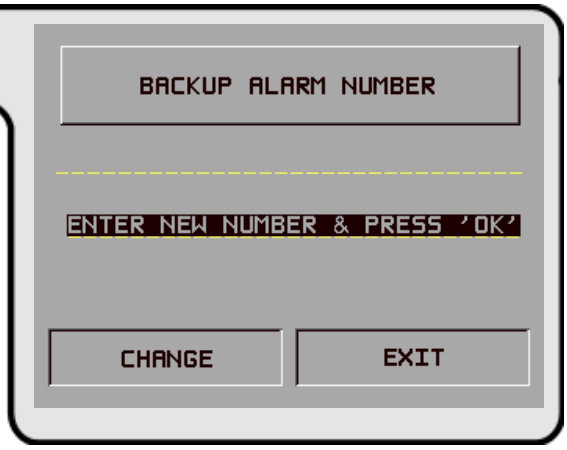
When this function is selected, the current phone number is displayed (if nothing appears on the screen, no number is set). Select CHANGE to blank the current entry, and then enter the desired phone number. The phone number may be up to 30 digits long. It can also contain a dialing prefix, such as a '9' for an outside line, if necessary. If you need to pause after the prefix, place a comma in the number for a two-second delay at that point. Pressing the <BLUE> key first, then the <0> key, followed by the <RIGHT ARROW> key to select the comma character. Make sure to enter the long distance prefix '1' if you are dialing an 800 number or a toll long distance number. Do not enter dashes in the number.

ERROR CONDITIONS::

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: BACKUP ALARM NUMBER



FACTORY DEFAULT: NONE

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select TRITON CONNECT.
5.) Select ALARM NUMBERS.
6.) Choose BACKUP.

DESCRIPTION:

The BACKUP ALARM NUMBER function is used to enter a backup telephone number that the terminal can use for calling a Triton Connect computer to report alarm conditions.

When this function is selected, the current phone number is displayed (if nothing appears on the screen, no number is set). Select CHANGE to blank the current entry, and then enter the desired phone number. The phone number may be up to 30 digits long. It can also contain a dialing prefix, such as a '9' for an outside line, if necessary. If you need to pause after the prefix, place a comma in the number for a two-second delay at that point. Press the <BLUE> key, then the <0> key, followed by the <RIGHT ARROW> key to select the comma character. Make sure to enter the long distance prefix '1' if you are dialing an 800 number or a toll long distance number. Do not enter dashes in the number.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENABLE/DISABLE CALL BACK

FACTORY DEFAULT: ENABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select TRITON CONNECT.

DESCRIPTION:

Normally, when the Triton Connect Host Computer contacts a terminal, it will hang up and wait for the terminal to CALL BACK. This is done for security reasons. The CALL BACK option allows the terminal operator to enable and disable this feature.

Once you've reached the TRITON CONNECT screen, the CALL BACK button will present an option to reverse the current state of the feature. For example, if CALL BACK is currently ENABLED, the CALL BACK option button will show the DISABLE CALL BACK option. Conversely, if CALL BACK is currently DISABLED, the CALL BACK option button will show the ENABLE CALL BACK option.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ENABLE/DISABLE TRITON CONNECT

FACTORY DEFAULT: DISABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select TRITON CONNECT.

DESCRIPTION:

If the Triton Connect feature has been ACTIVATED (using the ACTIVATE function), this function can be used to ENABLE or DISABLE Triton Connect access to the terminal.

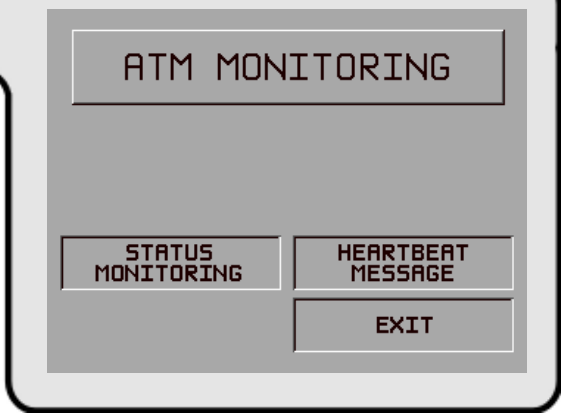
Once you've reached the TRITON CONNECT screen, the TRITON CONNECT button will present an option to reverse the current state of this feature. For example, if Triton Connect is currently ENABLED, the button will show the DISABLE TRITON CONNECT option. Conversely, if Triton Connect is currently DISABLED, the option button will show the ENABLE TRITON CONNECT option.

ERROR CONDITIONS:

Once Triton Connect is ENABLED, the terminal must be reset to correctly initialize the modem for incoming calls. Also, if the terminal has ever had an error condition it will attempt to report the error to the Triton Connect Host PC shortly after the reset is performed. It is therefore recommended that the Triton Connect Host PC be configured and ready to communicate with the terminal prior to setting up this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ATM MONITORING



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select ATM MONITORING.

DESCRIPTION:

The ATM Monitoring screen provides access to the following functions:

1.) STATUS MONITORING. When this feature is enabled the terminal will send operational status information to the processor during the certain transactions. NOTE: This feature must be supported bythe processor.

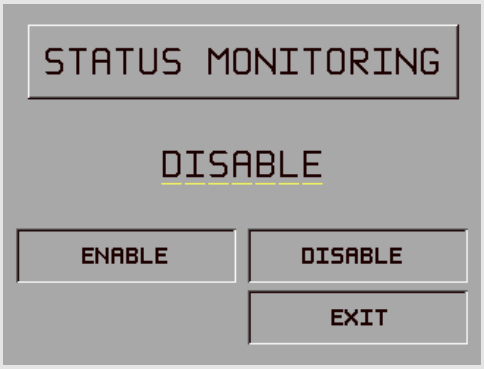
2.) HEARTBEAT MESSAGE. The Heartbeat Message feature is designed to provide a means of reporting communications system status to the host processor.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: STATUS MONITORING



FACTORY DEFAULT: DISABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select ATM MONITORING.
5.) Select STATUS MONITORING.

DESCRIPTION:

STATUS MONITORING is a feature that is available with selected processor software. When enabled the terminal will send operational status information to the processor during certain transactions with the processor. The status information is sent in a data field that is part of any of the following messages sent to the processor:

1.) A Transaction Request Message
2.) Configuration Table Download Request Message (Comms Key Download)
3.) Host Totals Download Request Message
4.) Reversal Request Message.

Turn this feature on by selecting the ENABLE option on this screen. Select DISABLE to inhibit the operation of the STATUS MONITORING feature.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: HEARTBEAT MESSAGE

FACTORY DEFAULT: DISABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select ATM MONITORING.
5.) Select HEARTBEAT MESSAGE.

DESCRIPTION:

The HEARTBEAT MESSAGE feature is designed to provide a means of reporting communications system status to the host processor.

Status reporting by dial-up ATMs is now the norm, but the single most important feature that cannot be monitored is the communications status. The absence of transactions from a particular terminal can means one of two things. Usually the lack of calls indicates nothing more than a slow period. Sometimes, though, a piece of the communications system will fail and inhibit any calls from being made. The host has no way of determining which scenario is occurring in any kind of real-time mode. The Heartbeat Message overcomes this limitation.

When this feature is ENABLED, the terminal will call the host after a period of inactivity. During this call, the terminal will request a COMMS KEY DOWNLOAD (the normal configuration download request), and will also report status (if the STATUS MONITORING function is ENABLED). This allows the host to determine if a particular terminal is still in operation, even though it may not be performing any transactions at the time. With this feature enabled, the host can finally monitor communications system failures.

The Heartbeat Message feature on the Cash Dispenser has several parameters that must be set to operate properly. These parameters are:

1.) HEARTBEAT MESSAGE. This parameters turns on or off the regular call to the host.

2.) DELAY PERIOD. This parameter sets the time interval that must expire before a Heartbeat Message will be sent. It is specified in minutes.

Once the Heartbeat Message call feature is enabled at the terminal, an internal timer will be initialized to the number of minutes set in the DELAY PERIOD parameter at system power-up and after a reset. This timer is restarted each time a call is made to the host. A call to the host is defined as any transaction, including financial, balancing and configuration that actually communicates with the host to the point that the Terminal ID is recognized. A customer transaction that is declined will reset the timer, while a call that fails because the host phone number was busy would not.

It is important to remember that as long as transactions are being done on the terminal on a regular basis, Heartbeat Message calls will not be made. The sole purpose of these calls is to let the host know that the terminal is OK when it is NOT performing regular transactions.

Because the primary purpose of the Heartbeat Message call is to let the host know everything is all right, a Heartbeat Message call that DOES NOT succeed for any reason is not retried. If the call does fail, the interval timer will be reset and the terminal will remain in service.

While the concept of the Heartbeat Message call is simple, interpreting the absence of an expected call must be explained. Listed below are reasons why Heartbeat Message calls will not be received at the host either when expected or at all.

Feature Not Turned On

Obviously, if the feature in not enabled, no Heartbeat Message calls will be made.

Terminal is Doing Transactions

If the terminal does at least one regular customer transaction or balancing transaction before the interval timer, no Heartbeat Message call will be made.

Terminal is in Management Function Mode

Heartbeat Message calls are suspended while the terminal is in the Management mode, although the interval timer continues to run. If the timer expires while the terminal is in this mode, the call will be delayed until the terminal returns to the normal service mode.

Terminal is Out of Service

When the terminal goes out of service, one Heartbeat Message call is made. After that call, all further calls are suspended until it is returned to normal service.

SECTION 2 - INSTALLATION AND SETUP

Terminal is Turned Off or Power Has Failed

If the terminal is turned off, no calls will be made. While an obvious point, it means that for this feature to be of any value, the terminal must always remain on.

Communications System Has Failed

A failure of any piece of the communications system will result in missed calls. This includes the terminal modem, the phone line to the terminal, and any intermediate telecommunications providers.

Terminal Was Reset or Power Cycled

Since the interval timer is reset when the terminal is reset, a scheduled call may not occur at the expected time.

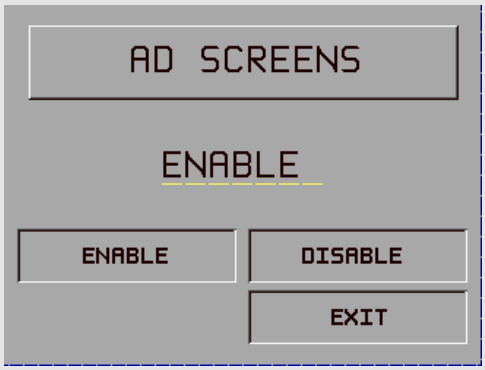
To realize the benefits of the Heartbeat Message, the host must be programmed to monitor the interval between calls from the terminal. It is important to note, though, that the host interval threshold should be set to a value greater than that programmed at the terminal. A practical guideline is at least twice the terminal interval. This allows for Heartbeat Message calls that are delayed because the terminal is in Management mode, or calls skipped because of a system reset.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: AD SCREENS



FACTORY DEFAULT: ENABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select AD SCREENS.

DESCRIPTION:

The terminal must have at least one Memory Expansion Card installed for this feature to operate. AD SCREENS is a feature that causes the display on an idle terminal to alternate between the WELCOME SCREEN and a screen containing graphics and text elements used to make an advertisement screen. AD SCREENS are created in a special graphics editor that runs from the Triton Connect Terminal Managers program. The graphics editor lets the user import 16-color bit-mapped graphic files in the '.bmp' format with a maximum resolution of 320 dots by 240 dots. The graphic can then be relocated in the display area. Then text can be added to the display and the graphic and text are saved in the proprietary '.TCG' (Triton Connect Graphic) file format. TCG files can then be downloaded to the terminals' Expansion Memory Card for display on the screen. In addition to the graphic, data is also downloaded that establishes what time of day and for how long the Ad Screen is displayed.

Selecting ENABLE from the AD SCREENS Menu turns on the AD SCREENS feature. Selecting DISABLE turns off the feature.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: COMMUNICATION HEADER

FACTORY DEFAULT: PROCESSOR-SPECIFIC

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
3.) Select COMMUNICATION HEADER.

DESCRIPTION:

The COMMUNICATION HEADER is an optional feature that is only applicable to certain processors. When a specified processor requires the use of the COMMUNICATIONS HEADER it must be ENABLED and have the correct data in the header data field. The COMMUNICATION HEADER data field consists of alphanumeric characters.

To enter a digit 0-9, press the key that has that digit. To enter a letter, first press the <BLUE> key, then press the key that has the letter you want on it. The first press of the key will display the first character above the number. Subsequent presses will display the characters in sequence. When the character you want is displayed, press the <RIGHT ARROW> key to 'lock in' the character. If your next character is a letter, you must press the <BLUE> key again.

ERROR CONDITIONS:

Enabling the COMMUNICATION HEADER when using a processor that doesn't use this feature will prevent any type of transaction from completing. Disabling or having incorrect data in the COMMUNICATION HEADER data field (if the feature is required) will also prevent any type of transaction from processing.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: MORE (TERMINAL PARAMETERS)

FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select MORE.

DESCRIPTION:

This screen allows you to select additional terminal parameters functions. The functions available are ALARM THRESHOLDS and VIEW/MODIFY OPTIONS. ALARM THRESHOLDS is used to monitor the status of various parameters (such as number of journal entries, or the level of cash remaining in the cassette), and determines at what point a notification message will be sent to a remote computer. This remote computer must be running Triton Connect monitoring software.

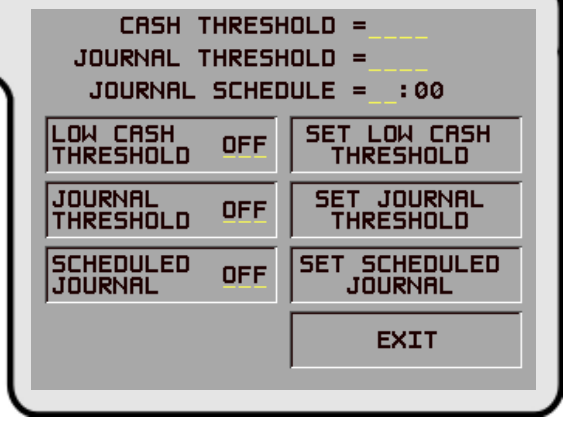
The VIEW/MODIFY OPTIONS function is used to activate or deactivate special terminal features such as Triton Connect.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ALARM THRESHOLDS



FACTORY DEFAULT: OFF

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select MORE.
5.) Select ALARM THRESHOLDS.

DESCRIPTION:

This function allows you to turn on or off the LOW CASH THRESHOLD, JOURNAL THRESHOLD, and SCHEDULED JOURNAL features.

1.) LOW CASH THRESHOLD. When this feature is turned ON, the terminal sends a notification message to a remote Triton Connect computer if the amount of cash in the cassette falls below the level specified using the SET LOW CASH THRESHOLD function. When this feature is turned OFF, no notification message will be sent.

2.) JOURNAL THRESHOLD. When this feature is turned ON, the terminal will send a notification message to a remote Triton Connect computer if the number of entries in the journal exceeds the level specified using the SET JOURNAL THRESHOLD function. When this feature is turned OFF, no notification message will be sent.

3.) SCHEDULED JOURNAL. When this feature is turned ON, the terminal will automatically send all journal data to a remote Triton Connect computer at a time established using the SET SCHEDULED JOURNAL function. When this feature is turned OFF, the journal will not be sent automatically.

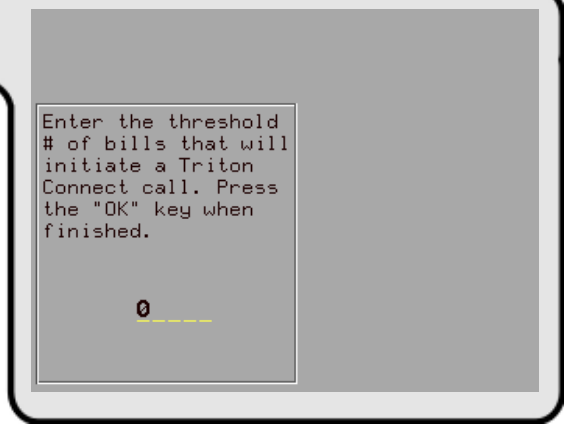
The current state of each function is shown as either ON or OFF in the applicable label on the left-hand side of the display. Press the button next to the applicable label to toggle the state of the feature between ON and OFF.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET LOW CASH THRESHOLD



FACTORY DEFAULT: 0

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select MORE.
5.) Select ALARM THRESHOLDS.
6.) Select SET LOW CASH THRESHOLD.

DESCRIPTION:

This function allows you to enter the number of bills that will act as a low cash threshold. When the number of bills in the cassette drops below the value set in this function, the terminal will automatically send a notification message to a remote Triton Connect computer.

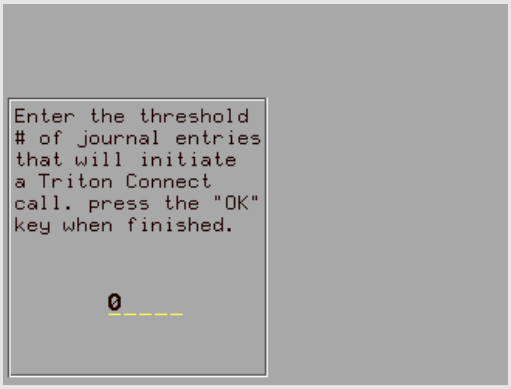
To ensure the accuracy of the threshold, make sure to use the ENTER QTY. IN CASSETTE function after replenishing the cash in the cassette.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET JOURNAL THRESHOLD



FACTORY DEFAULT: 0

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select MORE.
5.) Select ALARM THRESHOLDS.
6.) Select SET JOURNAL THRESHOLD.

DESCRIPTION:

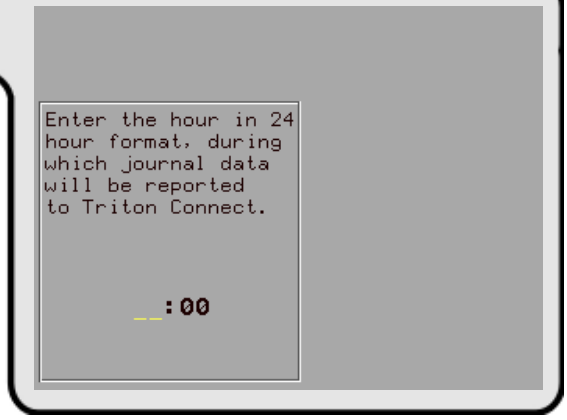
This function allows you to enter the number of journal entries that will act as a threshold. When the number of journal entries rises above the value set in this function, and the Journal Threshold feature is ENABLED, the terminal will automatically contact the remote Triton Connect computer and initiate a transfer of the journal.

ERROR CONDITIONS:

IMPORTANT! If the threshold value is set to '0' (zero) while the Journal Threshold feature is ENABLED, no journal will be transmitted!

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET SCHEDULED JOURNAL



FACTORY DEFAULT: 0

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select MORE.
5.) Select ALARM THRESHOLDS.
6.) Select SET SCHEDULED JOURNAL.

DESCRIPTION:

This function allows you to enter the time at which the terminal will automatically contact a remote Triton Connect computer and initiate a transfer of the journal.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: VIEW/MODIFY OPTIONS

FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select MORE.
5.) Select VIEW/MODIFY OPTIONS.

DESCRIPTION:

The VIEW/MODIFY OPTIONS FUNCTION provides access to terminal parameters for setting the following:

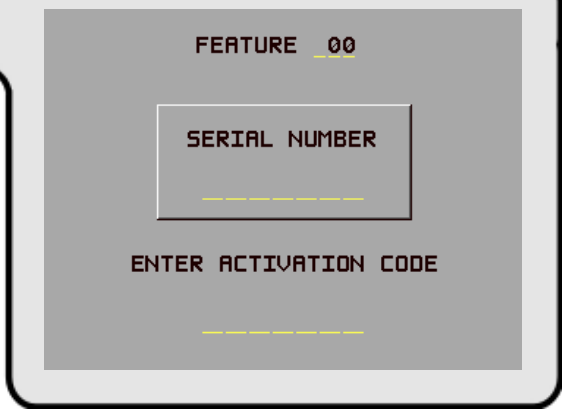
1.) ACTIVATE (A selected feature.)
2.) DEACTIVATE (A selected feature.)
3.) SELECT FEATURE NUMBER

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ACTIVATE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select MORE.
5.) Select VIEW/MODIFY OPTIONS.
6.) Choose ACTIVATE.

DESCRIPTION:

To activate a FEATURE an activation code must be obtained from the Triton Systems, Inc., Technical Support Department. When calling Triton Systems Inc., you will be asked to provide the serial number that is displayed on the FEATURE 00 SERIAL NUMBER screen.

Once the activation code is obtained, select the ACTIVATE option from the FEATURE 00 Menu to display the FEATURES 00 SERIAL NUMBER screen. Enter the activation code into the terminal while the FEATURE 00 SERIAL NUMBER screen is displayed. Press <OK>. If the activation code is correct, a screen informing you that the terminal must be reset to activate the feature is displayed. Reset the terminal by depressing the RESET switch on the card cage or cycling the Main Power Switch on the Power Supply from ON to OFF to ON.

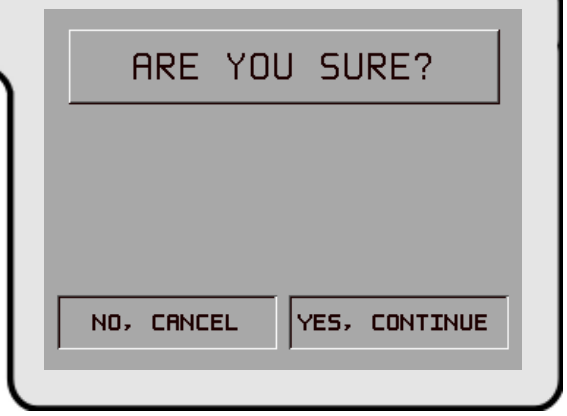
If the activation code is entered incorrectly, the terminal will beep 4 times and return to the FEATURE 00 Menu.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: DEACTIVATE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select MORE.
5.) Select VIEW/MODIFY OPTIONS.
6.) Choose DEACTIVATE.

DESCRIPTION:

To DEACTIVATE a Feature, select the DEACTIVATE option from the FEATURE menu. When DEACTIVATE is selected a confirmation screen ("ARE YOU SURE?") is displayed. Select YES, CONTINUE on the confirmation screen and the FEATURE Menu will be displayed indicating Feature 00 "IS NOT ACTIVE" .

Selecting the NO, CANCEL option when "ARE YOU SURE?" is displayed will return the display to the FEATURE main menu.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SELECT FEATURE NUMBER

FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Choose MORE.
4.) Select MORE.
5.) Select VIEW/MODIFY OPTIONS.
6.) Choose SELECT FEATURE NUMBER.

DESCRIPTION:

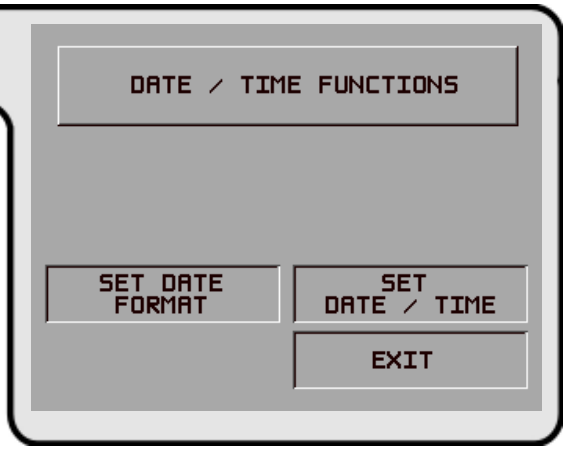
Selects the feature number to examine or to activate/deactivate. For example, entering the numbers "00" selects the Triton Connect feature. The current status of the feature will be displayed. Use the ACTIVATE and DEACTIVATE functions as appropriate to change the status of the selected feature.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: DATE / TIME FUNCTIONS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Choose DATE / TIME FUNCTIONS.

DESCRIPTION:

This screen provides a menu of functions related to configuration of date and time parameters for the Cash Dispenser:

1.) SET DATE FORMAT. This option allows you to choose between a DD/MM/YY and a MM/DD/YY date format the terminal will use when printing receipts and other reports.

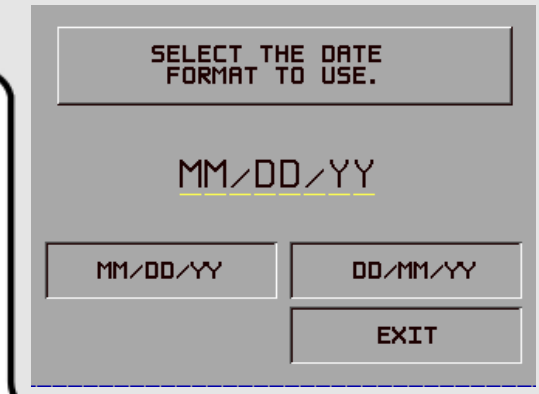
2.) SET DATE / TIME. This option enables you to configure the actual date and time the terminal uses when printing receipts and other reports.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET DATE FORMAT



FACTORY DEFAULT: MM/DD/YY

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Choose DATE / TIME FUNCTIONS.
3.) Choose SET DATE FORMAT.

DESCRIPTION:

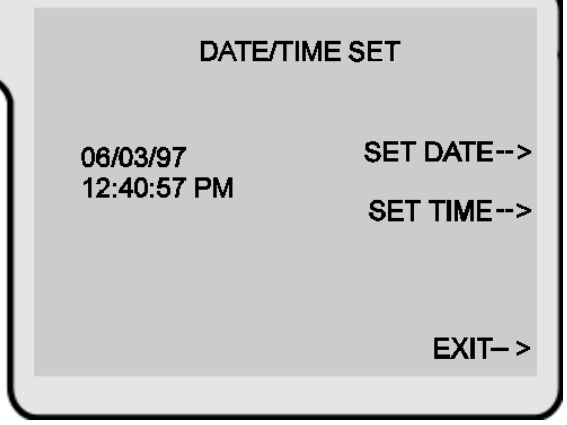
This function provides a way to change the date format the terminal uses when printing a date field on receipts and reports. Press the button next to the desired option to activate that format.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET DATE / TIME



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Choose DATE/TIME FUNCTIONS.
3.) Choose SET DATE / TIME

DESCRIPTION:

The Cash Dispenser contains an internal clock that maintains the date and time, even when power is disconnected from the unit.

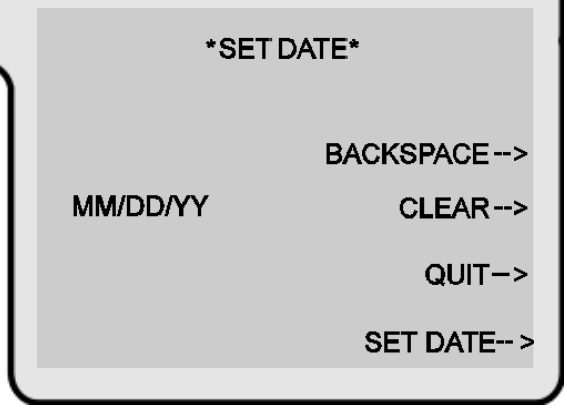
Press SET DATE to begin the date entry process. Press SET TIME to begin the time entry process.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET DATE



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Choose DATE/TIME FUNCTIONS.
3.) Select SET DATE / TIME.
4.) Select SET DATE..

DESCRIPTION:

Press SET DATE to begin the date entry process. The date is entered in the form 'MM/DD/YY' (month, day, year). Do not enter the '/' characters separating the fields, just the fields themselves. Press CLEAR to erase everything and start over. Press the BACKSPACE key to back up and erase a single character. Press QUIT to escape without doing anything. Press SET DATE to load the entered date into the clock.

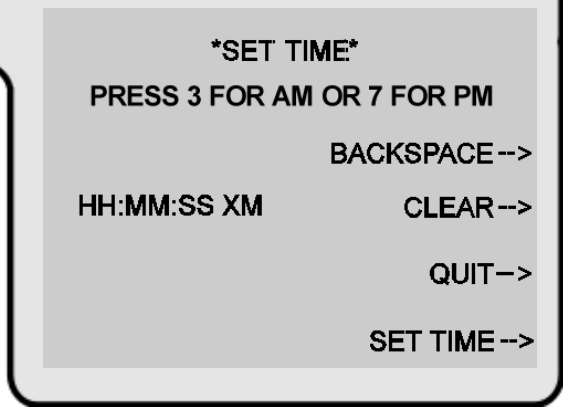
The Cash Dispenser will not let you enter an invalid number for hours or minutes. The clock will properly handle the rollover to the year 2000.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: SET TIME



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Choose DATE/TIME FUNCTIONS.
3.) Select SET DATE / TIME.
4.) Select SET TIME...

DESCRIPTION:

The time is entered in the form 'HH:MM:SS' (hours, minutes, seconds). Do not enter the ':' characters separating the fields, just the fields themselves. Press CLEAR to erase everything and start over. Press the BACKSPACE key to back up and erase a single character. Press QUIT to escape without doing anything. Press SET TIME to load the entered time into the clock.

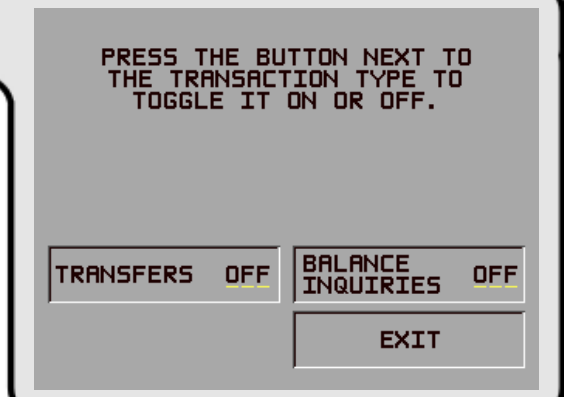
The Cash Dispenser will not let you enter an invalid number for hours or minutes. The clock will properly handle the rollover to the year 2000.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: TRANSACTION TYPES



FACTORY DEFAULT: ON

ACCESS INSTRUCTIONS:

1.) Select the TERMINAL CONFIGURATION option from the MANAGEMENT FUNCTIONS screen.
2.) Select TRANSACTION TYPES.

DESCRIPTION:

This function allows you to turn on or off the availability of the two transaction types: TRANSFERS and BALANCE INQUIRIES. When a transaction type is turned ON, the terminal will provide that option to the customer. When a transaction type is turned OFF, the selected transaction type will not be displayed to the customer.

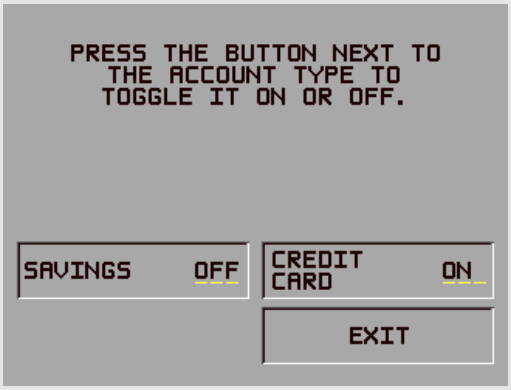
The current state of the transaction type is shown as either ON or OFF in the applicable button label on the display. Press the button next to the label to toggle the state of the transaction type between ON and OFF.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 2 - INSTALLATION AND SETUP

FUNCTION: ACCOUNT TYPES



FACTORY DEFAULT: ON

ACCESS INSTRUCTIONS:

1.) Select the TERMINAL CONFIGURATION option from the MANAGEMENT FUNCTIONS screen.
2.) Select ACCOUNT TYPES.

DESCRIPTION:

This function allows you to turn on or off the availability of two account types: SAVINGS and CREDIT CARD. When an account type is turned ON, the terminal will provide that option to the customer. When an account type is turned OFF, the selected account type will not be displayed to the customer.

The current state of the account type is shown as either ON or OFF in the applicable button label on the display. Press the button next to the label to toggle the state of the account type between ON and OFF.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 3
TROUBLESHOOTING AND REPAIR

SECTION 3 - TROUBLESHOOTING AND REPAIR

CASH DISPENSER MODULE DESCRIPTION

09600-02001 CPU MODULE

Module location: SS-01 This module contains the CPU and most I/O circuitry. The keypad, load port, modem, electronic journal, speaker and printer are all controlled by the circuitry on this module.

09600-02002 MEMORY MODULE

Module location: SS-02 This module contains the memory which is used by the CPU. The memory consists of a fixed EPROM, re-programmable Flash, RAM, and EEPROM. The module also contains the real time clock and the battery-backed data encryption chip.

****CAUTION****

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED!!

Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

09600-02003 COLOR MODEM/LCD MODULE

Module location: SS-03. This module contains the color LCD controller and modem. The standard modem operates at 2400 bps. Optional modems that operate at 14,400 bps and 33,600 bps are available. This module also controls the contrast of the LCD and the volume level of the speaker.

09600-02005 MONOCHROME MODEM/LCD MODULE

Module location: SS-03. This module contains the monochrome LCD controller and modem. The standard modem operates at 2400 bps. Optional modems that operate at 14,400 bps and 33,600 bps are available. This module also controls the contrast of the LCD and the volume level of the speaker.

09600-06041 BACKPLANE

The backplane is located in the rear of the electronic enclosure (the "Card Cage"). This board contains the bus for the modular boards and the connections for the power supply and keypad boards.

SECTION 3 - TROUBLESHOOTING AND REPAIR

09600-02004 MEMORY EXPANSION MODULE

Module location: SS-04 or SS-05 Slot of the Card Cage. This optional module contains one megabyte of Flash memory. This memory is used to store graphic images.

09600-02031 MEMORY EXPANSION MODULE

Module location: SS-04 or SS-05 Slot of the Card Cage. This optional module contains two megabytes of Flash memory. This memory is used to store graphic images.

09600-02032 MEMORY EXPANSION MODULE

Module location: SS-04 or SS-05 Slot of the Card Cage. This optional module contains four megabytes of Flash memory. This memory is used to store graphic images.

09600-06077 QUADPORT MODULE.

Module location: SS-06. This optional module contains four serial ports. These ports will be used for various functions such as UPS monitoring, external sign controls, and smart card applications.

09500-02009 ELECTRONIC JOURNAL/SECURITY MODULE

Module Location: Inside the Security Cabinet. This is used to store journal data and secure the communications between the Card Cage and the dispenser mechanism.

09600-01006 MAIN KEYPAD PCB WITH KEYPAD

Location: Front Control Panel. This board provides the mechanical and electrical connections for the 16 Key keypad. It also has connections to the Color LCD, inverter, 4-key keypads, printer, speaker and card reader.

09600-01007 4-KEY KEYPAD PCB (A, B, C, D) WITH KEYPAD

Location: Front Control Panel. This board provides the mechanical and electrical connections for the left (looking from the front of the LCD) LCD keypad.

09600-01009 4-KEY KEYPAD PCB (E, F, G, H) WITH KEYPAD

Location: Front Control Panel. This board provides the mechanical and electrical connections for the right (looking from the front of the LCD) LCD keypad.

SECTION 3 - TROUBLESHOOTING AND REPAIR

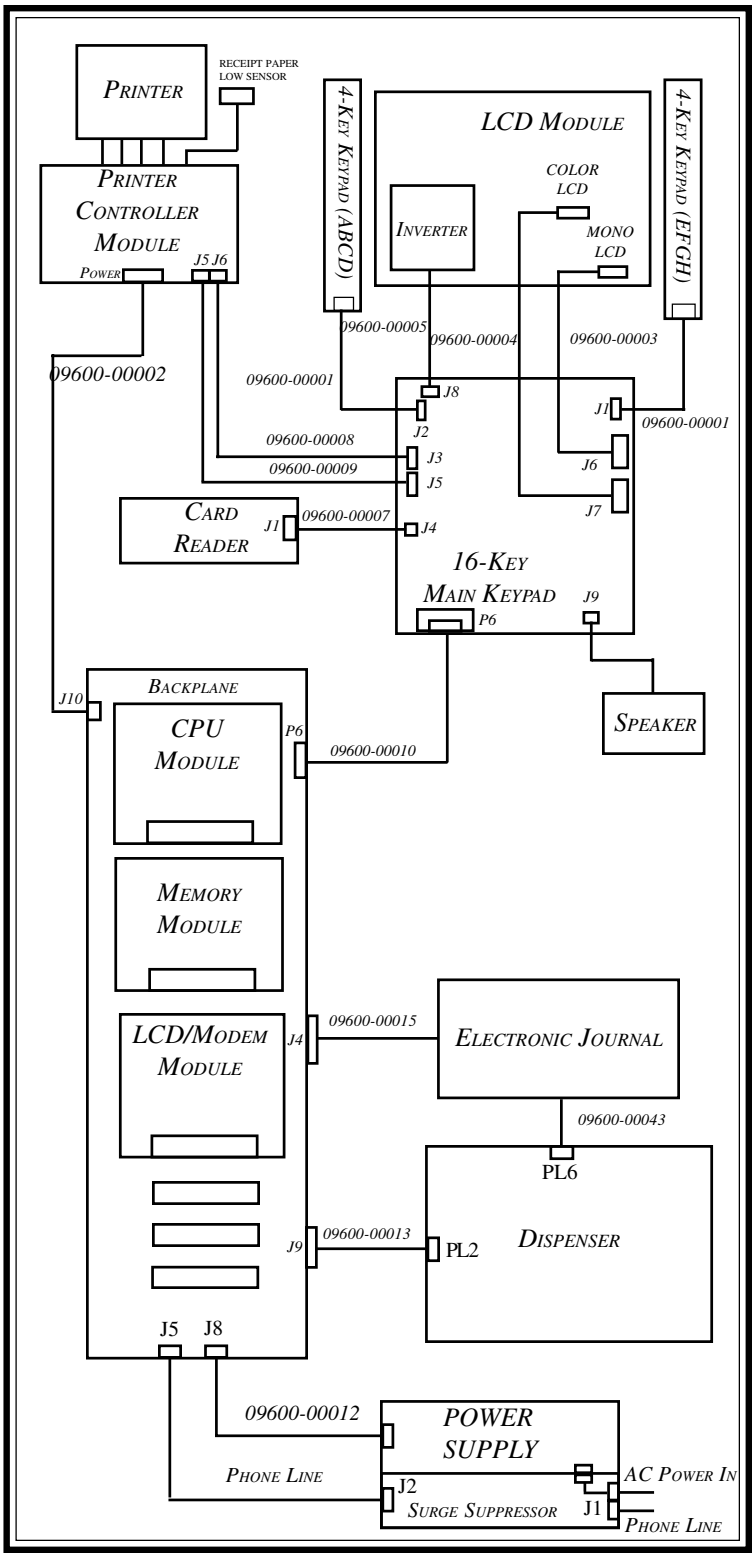


Figure 3-1. Cash Dispenser Block Diagram.

SECTION 3 - TROUBLESHOOTING AND REPAIR

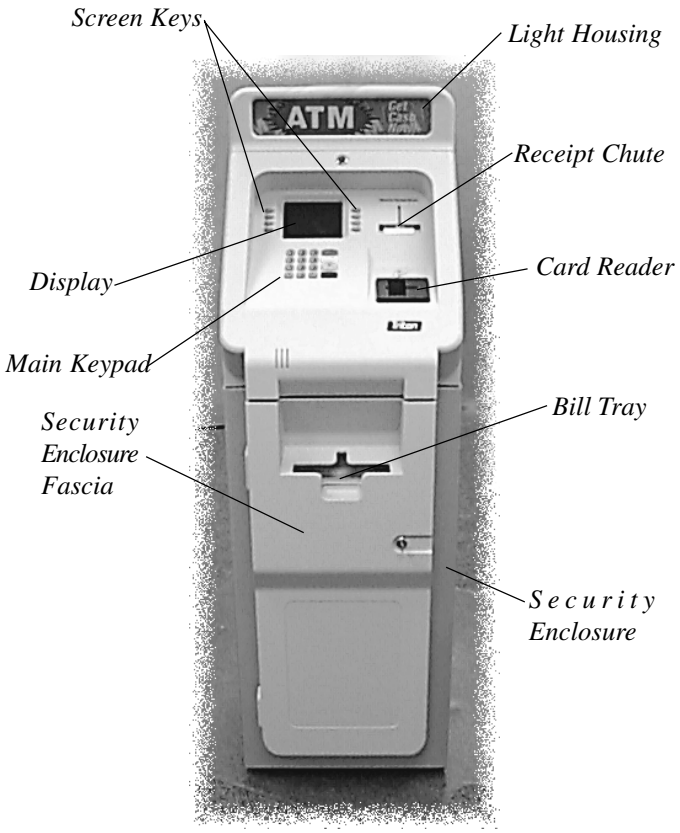


Figure 3-2. Cash Dispenser external features.

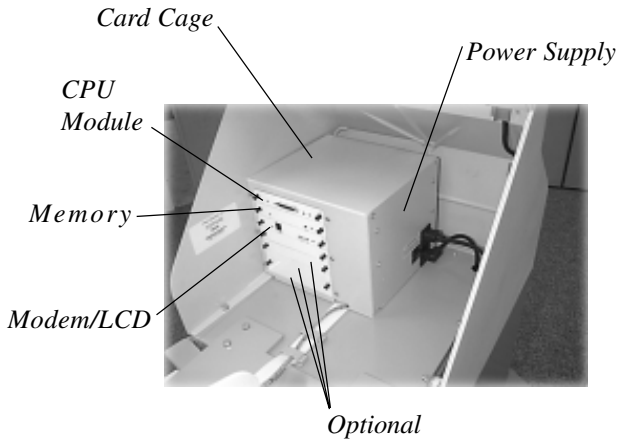


Figure 3-3. The components located inside the Top Enclosure of the Cash Dispenser.

SECTION 3 - TROUBLESHOOTING AND REPAIR

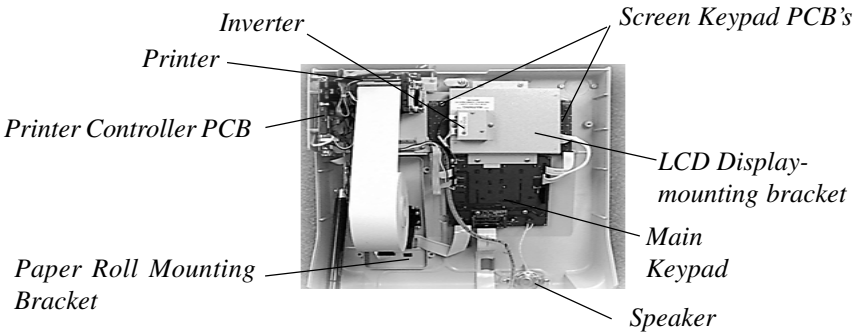


Figure 3-4. Major components located on the inside of the Cash Dispenser Front Panel.

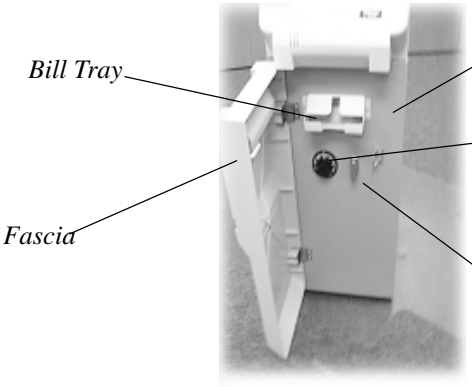


Figure 3-5. Cash Dispenser Fascia and Door Assemblies.

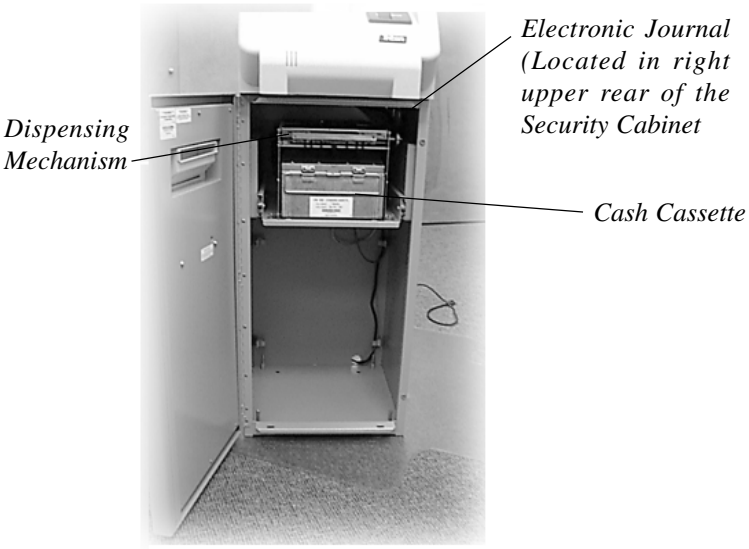


Figure 3-6. Major Components located inside the Cash Dispenser Security Cabinet.

SECTION 3 - TROUBLESHOOTING AND REPAIR

09600-02019 POWER SUPPLY WITH SURGE PROTECTOR

Location: Card Cage: Converts incoming AC Power to DC voltages (+5 VDC, +12 VDC, -12 VDC, +24 VDC) that are used throughout the terminal for operating the various electronic and electromechanical components. The power supply has a built-in surge suppressor to provide protection against AC input surges and spikes of voltage on the telephone line.

09600-06043 PRINTER CONTROLLER PCB

Location: Front Control Panel, Printer Mounting Bracket. This board provides the interface between the CPU Board and the Receipt Printer Mechanism. This unit receives its operating voltage directly from the Card Cage Backplane, via Cable 09600-00002.

09600-06026 RECEIPT PRINTER MECHANISM

The Receipt Printer is a fixed-head thermal printer that can print 12 lines per second and is graphics capable. The paper used in this printer uses a thermal coating, and is 60 mm wide.

09600-02070 CDPD MODEM MODULE

Module location: SS-06. This optional module supports wireless ATM communications. It has one serial port, which can be used for functions such as an LED display sign or UPS monitoring.

MAINTENANCE PHILOSOPHY

Triton's philosophy for field repair of the Cash Dispenser is a modular approach. This manual reflects the modular approach in that it will assist you to quickly locate a defective subassembly and direct you to the simplest method of replacing it. Subassemblies are not repairable in the field and should be returned to the factory for maintenance.

DIAGNOSTICS

FIRST CHECK

The first thing to check is the external environment of the Cash Dispenser. Be certain that proper power and a working phone line are available and connected. The phone line can be checked inside the top of the unit by plugging a phone into the jack labeled PHONE on the front panel of the Modem/LCD Module. The Cash Dispenser may use an internal uninterruptible power supply that could temporarily mask problems with the power line, so check the power where it enters the unit.

SECTION 3 - TROUBLESHOOTING AND REPAIR

****NOTE****

The top enclosure access door is provided with a pneumatic piston to prevent the door from extending too far when opening and from being closed too quickly. In the unlikely event of the pneumatic piston not functioning properly, the door should be prevented from opening too far and from being slammed when closing.

Open the Top Enclosure and push the AC Power switch to the OFF position for a few seconds. Push the AC Power switch to the ON position. The Cash Dispenser normally will emit a single beep from its internal speaker and display PLEASE WAIT on the screen for about twenty seconds before displaying the TOP MENU.

IF YOU HAVE NO DISPLAY

The Cash Dispensers have backlit LCD displays. The backlight and the LCD display can fail independently. If the display is dim and hard to read, check the contrast adjustment by accessing the ADJUST VOLUME/CONTR function from the MORE TERMINAL PARAMETERS menu. If the contrast adjustment does not improve the display, check cables 09600-00005 and 09600-00010 to ensure that they are properly seated at both ends of each cable. Confirm that the cable from the output of the Inverter to the backlight is properly connected. Verify the power supply voltages are correct as described in the next paragraph. If everything checks out and the backlight still does not work, replace the lamp. If the backlight is working, but the display is not, verify that cable 09600-00003 for a monochrome display or cable 09600-00004 for a color display are seated correctly on the SSP10 Main Keypad board and at the edge of the display. If these cables are properly seated, it may be necessary to replace one or all of the following:

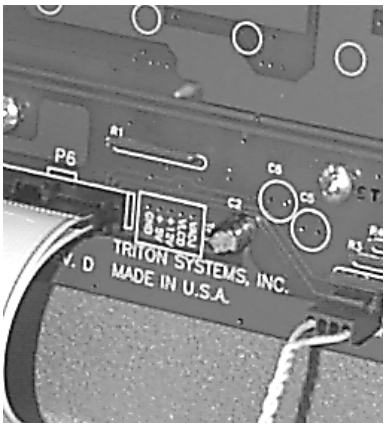


Figure 3-7. Voltage test point on the SSP10 board.

SECTION 3 - TROUBLESHOOTING AND REPAIR

The Display
Cable 09600-00004 for the Color Display
Cable 09600-00003 for the Monochrome Display
SSP10 Main Keypad Board
Cable 09600-00010
SSP03 Modem/LCD Board

Check for the following voltages at the test points identified on the SSP12 board to ensure correct power is being supplied to the electronic assemblies located on the back side of the Cash Dispenser's front panel:

+5 V to Ground	=	+5 VDC (+/- .25 VDC)
+12 V to Ground	=	+12 VDC (+/- .60 VDC)
VLCD to Ground	=	+30 VDC Color Display -24 VDC Monochrome Display
VADJ to Ground	=	+24.8 VDC to +28.5 VDC Color Display -19 VDC to -23 VDC Monochrome Display

DIAGNOSTIC MODE

The diagnostics mode is entered from the main management functions menu. Once you have entered management mode with the master password, press the diagnostics selection. Please note that the diagnostics selections do not have a time-out associated with them. You must exit back to the customer menu when you are finished with the diagnostics mode. There are six selections under the diagnostics menu: Status, Purge, Test Dispense, Test Receipt Printer, Test Journal Printer and Reset/Test Modem. Each of these diagnostic functions are outlined below.

STATUS

This selection returns the status from the dispenser mechanism. Four bytes of data are printed on the screen with the following format:

SECTION 3 - TROUBLESHOOTING AND REPAIR

THE STATUS COMMAND			
Byte 1	**Bit**	**Meaning if set to 1 or 0.**	
LSB	0	1= 0=	Feed sensor blocked. Feed sensor clear.
	1	1= 0=	Exit sensor blocked. Exit sensor clear.
	2	1= 0=	Cassette low. Cassette OK.
	3	1= 0=	Reset since last status message. No reset since last status message.
	4	1= 0=	Timing wheel sensor blocked. Timing wheel clear.
	5	1= 0=	Abnormal double-detect condition in last dispense (e.g. error codes 35, 44, or 47. Double-detect normal.
	6	1	This bit is always "1".
MSB	7	0	This bit is always "0'.
Byte 2	**Bit**	**Meaning if set to 1 or 0.**	
LSB	0	1= 0=	Cassette identity plug P4 present.* Cassette identity plug P4 not present.*
	1	1= 0=	Cassette identity plug P3 present.* Cassette identity plug P3 not present.*
	2	1= 0=	Cassette identity plug P2 present.* Cassette identity plug P4 not present.*
	3	1= 0=	Cassette identity plug P1 present.* Cassette identity plug P4 not present.*
	4	1= 0=	Calibrating double-detect. Not calibrating double-detect.
	5	1= 0=	Exit sensor dirty. Exit sensor clear.
	6	1=	This bit is always "1".
MSB	7	0=	This bit is always "0'.
			* The cassette identification system is not currently supported.
Byte 3	Set to the current average thickness of the documents being dispensed. It is the calibration value of the double-detect sensor. Byte 3 = Thickness + 20h.		
Byte 4	Set to the current average length of the documents being dispensed. Byte 4 = Length (in units of 3.5 mm) + 20h.		
The Cancel button must be pressed to return to the Diagnostics menu.			

SECTION 3 - TROUBLESHOOTING AND REPAIR

PURGE

The purge command instructs the dispenser to remove all documents from the transport path. Most documents will go into the reject tray in the top of the cassette. When the purge command is used to clear the transport following a jam or failure of the dispenser, some or all of the notes may pass out of the exit slot depending on the fault condition. Normal operation does not require externally commanded purges. This command returns three data bytes. The first byte (counting from left to right) is the error byte from the mechanism as outlined later in this section (under the heading: "Error Codes from the Dispenser"). Note that this byte is displayed in hexadecimal notation. The second byte is the number of bills sent out the exit plus 20 hex. The third byte is the number of bills sent to the reject tray plus 20 hex.

A return code of '20 20 20' is returned for a good purge with no bills exiting the dispenser. These counts may be based on suspect conditions and are not guaranteed to be accurate. If this test returns an error code, follow the instructions as outlined later in this section. If the problem cannot be corrected, replace the dispenser. Press the cancel key to return to the diagnostics menu.

TEST DISPENSE

The test dispense command instructs the dispenser to dispense one note into the reject tray of the cassette. This test exercises the dispenser except that no bills actually leave the mechanism. This command returns three data bytes that are displayed in hexadecimal notation. The first byte (counting from left to right) is the error byte from the dispenser +20h. The second byte is the number of bills sent out of the exit plus 20. The third byte is the number of bills sent to the reject tray plus 20. A return code of '20, 20, 21' is the correct code for this function. It indicates; 1) that there were no error codes generated during the test, 2) no bills were sent out the dispensing mechanism exit and, 3) one bill was sent to the reject tray. If this test returns an error code other than '20, 20, 21' it may indicate there is no currency in the cassette, or a problem exists with the cassette or dispensing mechanism. Refer to the topic, "Error Codes from the Dispenser" later in this section for more detailed information about the error codes and the status messages reported during Purge and Test Dispense.

TEST RECEIPT PRINTER

This command will print two lines of text on the receipt printer and then advance and cut the paper. The text should be 42 characters wide, followed by several line of additional text providing information about various terminal parameters. If nothing is printed during the receipt printer test, verify that the paper has been installed correctly. Make sure that all of the connectors are securely plugged in to the printer and printer controller board. Perform the printer self test that is described later in this section. If nothing prints, either the printer or the printer controller board is defective.

SECTION 3 - TROUBLESHOOTING AND REPAIR

If the paper is not cut replace the printer mechanism. If the printer self test is successful the problem may be in either the CPU board or the Memory board.

After terminal setup, perform a TEST RECEIPT PRINTER test and leave the copy with the terminal to aid in subsequent reconfiguration of parameters if needed.

TEST JOURNAL PRINTER

The journal printer option is not available on the Model 9600-series Cash Dispensers. When this function is selected the terminal displays the following response:

HARDWARE REQUIRED TO SUPPORT THIS FEATURE IS NOT INSTALLED.

"PRESS ANY KEY TO CONTINUE"

RESET / TEST MODEM

This test confirms that the CPU Module can communicate with the modem and that the modem can be configured. If this test fails, replace the Modem/LCD Module first. If the problem persists, replace the CPU Module.

This test does not test the ability of the modem to communicate on the phone line. If the Reset/Test Modem test passes and yet communications fail on a normal transaction, try plugging a phone into the extra phone jack on the Modem/LCD Module in the top of the cabinet. If you can dial out normally, replace the Modem/LCD Module. Press the cancel key to return to the diagnostics menu.

ERROR CODES FROM THE TERMINAL

Once the Cash Dispenser detects an error condition, it will display an error message and go out of service. The unit performs status checks before the first transaction is allowed and after each transaction to be sure that the next transaction will be possible. No activity on the terminal for about 40 seconds will also result in a status check. When the unit goes out of service, the user cannot select any action on the terminal. The unit must be restarted by pressing the RESET button on the front panel of the Memory Module (located in the card cage), or the power must be turned OFF for a few seconds and then turned back ON. After the restart, the TOP MENU appears to allow you to access the management mode or to reset the error condition. In the management mode there is a Diagnostics selection that can assist you in troubleshooting the unit.

SECTION 3 - TROUBLESHOOTING AND REPAIR

TERMINAL ERROR CODES		
Error Code	**Meaning**	**Recommended Actions**
128	Error in reply from the dispenser mechanism.	Inspect cable 09600-00015 from J4 on the Backplane to the Electronic Journal to be sure both ends are seated correctly. Inspect cable 09600-00027 from the Electronic Journal to PL6 on the rear of the dispensing mechanism to be sure both end are securely screwed in place. If the cable ends are seated properly and there is no apparent damage to the cable, replace the CPU Module. If the problem persists, replace the dispenser.
129	No response from the dispenser mechanism.	See Recommended Actions for Error Code 128.
130	Command not acknowledged by the dispenser mechanism.	See Recommended Actions for Error Code 128.
131	CTS (Clear To Send) line from the dispenser mechanism is not active.	Inspect cable 09600-00015 from J4 on the Backplane to the Electronic Journal to be sure both ends are seated correctly. Inspect cable 09600-00017 from the Electronic Journal to PL6 on the rear of the dispensing mechanism to be sure both ends are securely screwed in place. If the cable appears to be in acceptable condition, verify that the voltages at PL2 on the back of the dispenser are correct. Starting at the top, you should find +24 volts, -12 volts, no pin, +5 volts, ground, +5 volts and ground. If these voltages are correct, replace the dispenser. If the voltages at PL2 are incorrect, check all pins on cable 09600-00013 for continuity from end-to-end (see chart on next page). If the cable has good continuity, other possible causes for the error could be the power supply, the Backplane or the CPU Module.

SECTION 3 - TROUBLESHOOTING AND REPAIR

TERMINAL ERROR CODES - CONTINUED

<table>
<tr><th>Error Code</th><th>Meaning</th><th>Recommended Actions</th></tr>
<tr><td>131</td><td>Continued from previous page...

NOTE

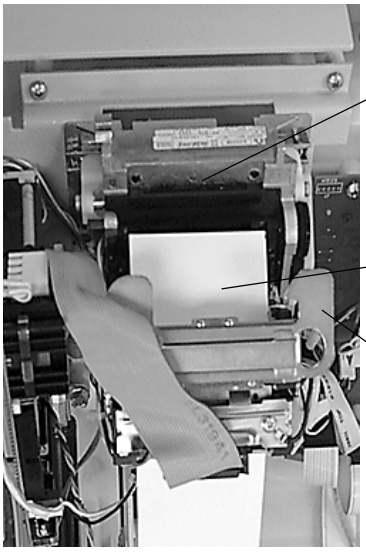
Do not use the cash dispensing mechanism chassis as the ground reference when measuring the voltages at PL2. Use pin 1 or pin 3 of PL2 as the ground reference for these measurements.</td><td><table><tr><th>Plug P9</th><th>Plug PL2</th></tr><tr><td>Pin 1</td><td>Pin 1 Ground</td></tr><tr><td>Pin 2</td><td>Pin 2 +5 VDC</td></tr><tr><td>Pin 3</td><td>Pin 3 Ground</td></tr><tr><td>Pin 4</td><td>Pin 4 +5 VDC</td></tr><tr><td>Pin 5 (Key)</td><td>Pin 5 (Key)</td></tr><tr><td>Pin 6</td><td>Pin 6 -12 VDC</td></tr><tr><td>Pin 7</td><td>Pin 7 +24 VDC</td></tr><tr><td>Pin 8 (No Connection)</td><td>-</td></tr></table></td></tr>
<tr><td>132</td><td>Status reports bad double-detect in last dispense.</td><td>Check for feed path problems. Purge the dispenser with the Purge command in the Diagnostics menu. Reset the Cash Dispenser by turning OFF the AC power switch for a few seconds then pushing back to the ON position. If the problem persists, replace the dispenser mechanism</td></tr>
<tr><td>133</td><td>5 volts not present from the dispenser on carrier detect.</td><td>See Recommended Actions for Error Code 131.</td></tr>
<tr><td>134</td><td>Exit blocked as reported by status check.</td><td>Check feed path or exit sensor. Purge the dispenser with the purge command in the diagnostics menu. If the problem persists, replace the dispenser mechanism</td></tr>
<tr><td>135</td><td>Feed sensor blocked as reported by status check.</td><td>Check feed path and the feed sensor. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser.</td></tr>
<tr><td>136</td><td>Modem initialization failed.</td><td>Turn the power off and then back on. If the problem persists, replace the modem. If this does not fix the problem, replace the modem module or the Modem/LCD Module.</td></tr>
</table>

SECTION 3 - TROUBLESHOOTING AND REPAIR

TERMINAL ERROR CODES - CONTINUED		
Error Code	**Meaning**	**Recommended Actions**
138	Print failure while printing to the receipt printer.	Inspect cables 09600-00002, 09600-00008, 09600-00009 and all of the cables connecting the Printer Controller Module to the Printer to verify that they are not damaged and are properly seated at both ends of each cable. Check dip switch settings on the printer controller board to verify they are set as shown here:  Isolate the problem to either the Printer/Printer Control Board or the CPU Module by performing a printer self test using the following steps: 1.) Turn OFF the terminal if it not already OFF. 2.) Press and hold the Printer Feed Button. 3.) Turn the terminal on. 4.) Release the printer feed button.  PRINTER AXIOHM: 7,6 12V data/line: 384 VERSION 1.08 TRITON Char set: FONT 9x20 USA Ready. CONFIGURATION Cutter : on Presenter : off Eop sensor: ref1 opto Cut sensor: switch Door open : off Nap sensor: on Opto Threshold (hex): Do/Ja/Ou/Np/Ct/Ep 38/28/14/37/64/3C interface : serial 600 n 8 1 Soft Motor Current : on I max : 100 % Pre heat : off Auto Load : on Paper temp: normal

SECTION 3 - TROUBLESHOOTING AND REPAIR

TERMINAL ERROR CODES - CONTINUED		
Error Code	**Meaning**	**Recommended Actions**
138	(Continued from previous page). Print failure while printing to the receipt printer.	If the printer self test is successful, a receipt similar to the one shown on the previous page will be printed. The completion of a satisfactory printer self test indicates that the current Printer/Printer Control Board combination and its interconnected wiring are operating normally. Check for defective components external to the Printer/Printer Controller Board (i.e. cables, the Main Keypad, the Backplane, CPU Module and the Memory Module). If a receipt is not printed during the printer self test, then either the Printer or Printer Control Board or its interconnected wiring are defective.
139	Print controller not responding to commands.	See the Recommended Actions for Error Code 138.
140	Time out waiting for printer to be ready.	See the Recommended Actions for Error Code 138.
141	Paper Jam reporter by controller during a status check.	Inspect printer for jam. See the figure below. Clear as necessary and perform both printer diagnostic tests as outlined in Recommended Actions for Error Code 138.



SECTION 3 - TROUBLESHOOTING AND REPAIR

TERMINAL ERROR CODES - CONTINUED

<table>
<tr><th>Error Code</th><th>Meaning</th><th>Recommended Actions</th></tr>
<tr><td>142</td><td>Dispenser returns bad command error.</td><td>The most likely cause of this error code is a communication error with the dispenser. Inspect the dispenser power cable 09600-00013, the Backplane-to-Electronic Journal cable 09600-00015, and the Electronic Journal-to-dispenser cable 09600-00017 to ensure each is securely seated at both ends and not damaged. If the cable ends are seated properly and there is no apparent damage to the cable, it will be necessary to verify the continuity of each cable; otherwise replace the dispenser. If the problem persists, replace the CPU Module.</td></tr>
<tr><td>143</td><td>PTDF error.</td><td></td></tr>
<tr><td rowspan="2">144</td><td>No reply from the Electronic Journal.</td><td>Inspect cable 09500-00015 to ensure it is securely attached to the Backplane at J4 and at the Electronic Journal. Cable and connector integrity can be verified by using an ohmmeter to check the resistance of each wire in the cable.</td></tr>
<tr><td>*NOTE*

Always attempt to complete a PRINT JOURNAL function before replacing the Electronic Journal. The information contained in the journal may be critical to the terminal owners operation.</td><td><table><tr><th>P4</th><th>EJ Termination</th></tr><tr><td>20</td><td>20</td></tr><tr><td>7</td><td>7</td></tr><tr><td>5</td><td>5</td></tr><tr><td>4</td><td>4</td></tr><tr><td>3</td><td>3</td></tr><tr><td>2</td><td>2</td></tr></table>
If the cable and connectors are good replace the Electronic Journal Module. If the symptoms persist after replacing the Electronic Journal replace the CPU Module.</td></tr>
<tr><td>145</td><td>Error in reply from Electronic Journal.</td><td>See the Recommended Actions for Error Code 144.</td></tr>
</table>

SECTION 3 - TROUBLESHOOTING AND REPAIR

TERMINAL ERROR CODES - CONTINUED		
Error Code	**Meaning**	**Recommended Actions**
146	No reply from command to Electronic Journal.	See the Recommended Actions for Error Code 144.
147	Error in reply from Electronic Journal	See the Recommended Actions for Error Code 144.
148	Write to Electronic Journal failed.	See the Recommended Actions for Error Code 144.
149	Read from Electronic Journal failed	See the Recommended Actions for Error Code 144.
150	Status command to Electronic Journal failed.	See the Recommended Actions for Error Code 144.
151	Electronic Journal full.	Attempt to perform the PRINT JOURNAL function. If the journal prints successfully, verify that all records where audited by performing the PRINT JOURNAL function again. This time the printout will indicate NO JOURNAL RECORDS TO PRINT . Reset the terminal and clear the error. If the error persists, replace the Electronic Journal
152	Electronic Journal corrupt.	See the Recommended Actions for Error Code 144.
153	Electronic Journal mode.	See the Recommended Actions for Error Code 144.
154	Unknown Electronic Journal status.	See the Recommended Actions for Error Code 144.
155	Electronic Journal modify record failure.	See the Recommended Actions for Error Code 144.
157	Erase command to Electronic Journal failed	See the Recommended Actions for Error Code 144.
158	Format command to Electronic Journal failed.	See the Recommended Actions for Error Code 144.

SECTION 3 - TROUBLESHOOTING AND REPAIR

TERMINAL ERROR CODES - CONTINUED		
Error Code	**Meaning**	**Recommended Actions**
159	Electronic Journal test feature failed.	See the Recommended Actions for Error Code 144.
160	Electronic Journal set feature failed.	See the Recommended Actions for Error Code 144.
161	Electronic Journal clear feature failed.	See the Recommended Actions for Error Code 144.
162	Electronic Journal get serial number failed.	See the Recommended Actions for Error Code 144.
163	Terminal did not answer. Triton Connect error.	Replace the Modem Module.
164	Terminal did not return call. Triton Connect error.	Replace the Modem Module.
165	Electronic Journal not present.	None required.
166	Bad dispense.	Replace the Dispensing Mechanism.
182	Currency Cassette low.	This condition will occur before the Cassette is actually empty. There should be approximately 1/4 inch of currency (about 60 bills) in the Cassette at this point. Add currency as needed .
183	Receipt printer paper low.	Verify that a new spool of paper is needed. Add paper as needed. If error code re-occurs , disable low paper checking and place the terminal back into operation. Also note that when LOW PAPER CHECKING is disabled, the terminal will continue to operate without printing receipts when the paper spool is empty. If error does not clear, inspect the receipt paper low optical sensor and its associated cable. If the sensor appears okay and the cable is seated properly, replace the Printer Controller Board.

SECTION 3 - TROUBLESHOOTING AND REPAIR

TERMINAL ERROR CODES - CONTINUED		
Error Code	**Meaning**	**Recommended Actions**
185	Phone number not configured.	Enter management functions and configure the primary phone number.
186	Bill size not configured correctly.	Allowable bill sizes are 5, 10, 20, 50 and 100. Enter management functions and configure the bill size (multiple amount). The default bill size is $0.00
187	Maximum withdrawal not configured correctly.	This amount cannot be more than 50 times the bill size selected. Enter management functions and configure the maximum amount.
188	Communications key not configured.	Enter management functions and configure the communications key either manually or by download (depending on the processor).
189	Terminal ID not configured.	Enter management functions and configure the terminal ID.
190	Master key not configured.	Enter management functions and configure the master key.
192	Communications Error.	Enter management function and verify that all terminal parameters have been set correctly.
195	Receipt paper out.	If paper is out, replace. If not, see Recommended Actions for Error Code 138.
196	Card Reader Failure.	Reset Cash Dispenser by turning power off for a few seconds then back on. If problem persists, replace the Card Reader.
203	SPED keypad is not replying to main board.	Reset Cash Dispenser by turning power off for a few seconds then back on. If problem persists, replace the SPED keypad.
205	The SPED keypad reported a tamper condition.	Check for evidence of physical tampering with SPED keypad. Reset Cash Dispenser by turning power off for a few seconds then back on. If problem persists, replace the SPED keypad.
206	SPED could not perform a successful command within SPED_MAX_ ATTEMPTS tries.	Reset Cash Dispenser by turning power off for a few seconds then back on. If problem persists, replace the SPED keypad.
207	SPED not detected.	Reset Cash Dispenser by turning power off for a few seconds then back on. If problem persists, replace the SPED keypad.

SECTION 3 - TROUBLESHOOTING AND REPAIR

ERROR CODES FROM THE DISPENSER

The following tables list the error codes generated by the dispenser mechanism inside the Cash Dispenser. Recommended actions to take to address each error code are provided. Note that for each error code, the hexadecimal equivalent is also listed in parentheses. The hexadecimal equivalent is the same error code that appears in the first set of numbers returned by the Status command, as covered under the topic “Status” earlier in this section.

SECTION 3 - TROUBLESHOOTING AND REPAIR

DISPENSER ERROR CODES		
Error Code	**Meaning**	**Recommended Actions**
32 (20h)	Good operation (No Error).	None required. This is the status after a normal dispense.
33 (21h)	Feed failure.	This error is usually associated with an empty cassette or currency that is in UNFIT condition. Ensure there is currency in the cassette. Refill as needed. Inspect the cassette and feed path for notes that are stuck together or jammed. If no jam is located, remove the first bill from the cassette. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser. If LOW CURRENCY CHECKING is enabled, and the terminal dispenses all of its cash; and the cassette has not been filled with enough cash to position the packer plate far enough from the dispensers Low Currency reed switch (about 1/2 to 3/4 inch thickness of currency) the terminal will go into Error 182 when the RESET ERROR button is pressed. To prevent this occurrence: 1.) Remove the cassette from the dispenser. 2.) Press the RESET ERROR key. 3.) Refill the cassette and install it in the dispenser.
34 (22h)	Mistracked note at feed.	This is a double detect fault. Inspect the cassette and feed path for jammed notes. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser.
35 (23h)	Mistracked note at double detect.	This is a double detect fault. Inspect the feed path for jammed notes. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser.
36 (24h)	Mistracked note at exit.	Inspect the cassette and feed path for jammed notes. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser.

SECTION 3 - TROUBLESHOOTING AND REPAIR

DISPENSER ERROR CODES - CONTINUED		
Error Code	**Meaning**	**Recommended Actions**
37 (25h)	Note too long at exit.	Note was temporarily caught at exit. Inspect the feed path for jammed notes. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser.
38 (26h)	Blocked exit.	Exit sensor blocked or open circuit. Inspect the feed path for notes stuck together or jammed. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser.
39 (27h)	Too many notes.	Replace the dispenser.
42 (2Ah)	Timing wheel.	A mechanical failure has occurred. Inspect the dispenser and check for a broken timing wheel or a bent timing wheel sensor. Clean the timing wheel sensor by blowing clean dry compressed air over the sensor lenses to remove any dust that may effect it operation. Check connectors to feed motors at the rear of the dispenser. If everything appears to be normal and the error persists, replace the dispenser.
44 (2Ch)	Bad roller profile.	A mechanical failure has occurred. Replace the dispenser
45 (2Dh)	Diverter error.	Inspect the feed path for jammed notes. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser.
46 (2Eh)	Exit quantified.	A mechanical failure has occurred. Replace the dispenser.
47 (2Fh)	Note missing at double detect.	Inspect the feed path for notes jammed. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser.

SECTION 3 - TROUBLESHOOTING AND REPAIR

DISPENSER ERROR CODES - CONTINUED		
Error Code	**Meaning**	**Recommended Actions**
48 (30h)	Reject rate exceeded.	The most likely cause of this error is poor quality currency or an improperly adjusted dispensing mechanism. Inspect the currency for excessive wear. Inspect the feed path for jammed notes. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser
49 (31h)	Jam at exit.	Inspect the feed path for jammed notes. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser.
50 (32h)	Interference recovery.	Possible static discharge. Inspect the incoming power and check for proper grounding.
51 (33h)	Suspect exit accountancy.	A mechanical failure has occurred. Replace the dispenser.
52 (34h)	Ram error.	A mechanical failure has occurred. Replace the dispenser.
53 (35h)	EPROM error.	A mechanical failure has occurred. Replace the dispenser.
54 (36h)	Operation time-out.	Inspect the feed path for jammed notes. Purge the dispenser with the purge command under diagnostics. If the problem persists, replace the dispenser.
55 (37h)	Ram corruption.	A mechanical failure has occurred. Replace the dispenser.
56 (38h)	Link error.	Configuration jumpers have been changed. Inspect jumper block LK5 on the dispensers control board. No jumpers should be installed. Cycle the power if the problem persists, replace the dispenser.

SECTION 3 - TROUBLESHOOTING AND REPAIR

MISCELLANEOUS ERROR CODES

The following tables lists miscellaneous error codes not included in the Terminal and Dispenser error code listings. It is recommended that troubleshooting of these error conditions be coordinated through Triton Systems Technical Support.

MISCELLANEOUS ERROR CODES

Error/Status Code	Meaning	Recommended Actions
1	Timeout	Contact Triton Systems Technical Support.
3	BGD_NOANSWER	Contact Triton Systems Technical Support.
4	Error in modem data	Contact Triton Systems Technical Support.
6	BGD_NODIALTONE	Contact Triton Systems Technical Support.
7	BGD_BUSY	Contact Triton Systems Technical Support.
10	BGD_LOGON	Contact Triton Systems Technical Support.
11	No connect	Contact Triton Systems Technical Support.
13	BGD_DONE_GOOD	Contact Triton Systems Technical Support.
14	EOT received	Contact Triton Systems Technical Support.
15	Timed out waiting for EOT	Contact Triton Systems Technical Support.
16	Communication problems	Contact Triton Systems Technical Support.
65	Processor not communicating with modem correctly.	Contact Triton Systems Technical Support.

SECTION 3 - TROUBLESHOOTING AND REPAIR

REPAIRS

POWER SUPPLY

The function of the power supply is to provide all of the necessary operating voltages for the other components in the Cash Dispenser. The power supply has the following outputs:

+5 VDC
+12 VDC
-12 VDC
+24 VDC
POWER/FAIL Signal

The output of the power supply is routed to connector J8 on the SSP04 Backplane by cable 09600-00012. The Backplane distributes the power to all of the other modules in the Cash Dispenser.

FUSES

There are two fuses in the Cash Dispenser. The first is a 10 AMP 250 VOLT fuse used to protect all devices that are connected to the AC input. This fuse is located at the bottom of the black AC power distribution block located on the lower rear of the power supply (See Figure 3-8).

CAUTION*

FOR CONTINUED FAULT PROTECTION REPLACE THE EXTERNAL FUSE ONLY WITH 10AL (10 AMP 250 VOLT) OR EQUIVALENT.

The second fuse is a 5 AMP 250 VOLT fuse in the AC input to the power supply. The fuse is located inside the power supply and can only be accessed by removing the power supply from the Electronics Enclosure (Card Cage), as shown in Figures 3-9 and 3-10.

CAUTION*

FOR CONTINUED FAULT PROTECTION REPLACE THE INTERNAL FUSE ONLY WITH F5AH (5 AMP 250 VOLT) OR EQUIVALENT.

SECTION 3 - TROUBLESHOOTING AND REPAIR

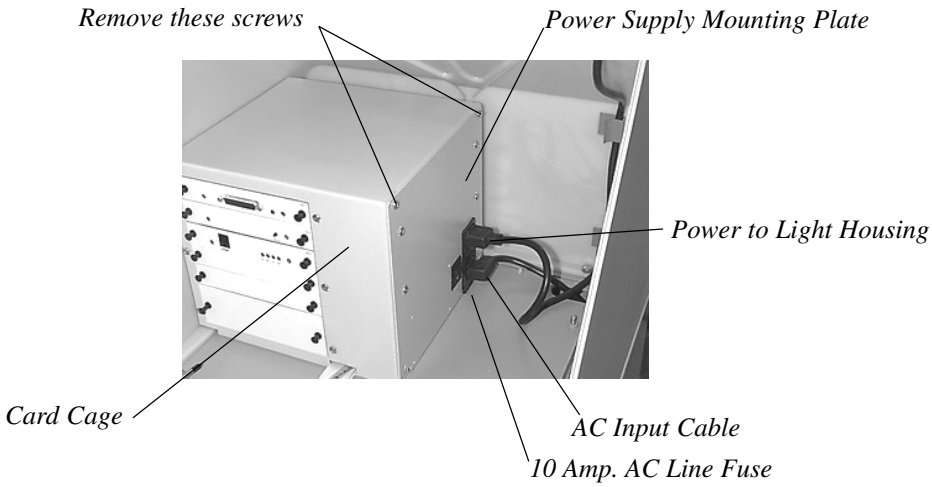


Figure 3-8. Electronics Enclosure.

REMOVING THE POWER SUPPLY

To remove the power supply complete the following procedure:

1. Unlock and open the Top Enclosure.

2. The power supply is located on the right side of the Electronic Enclosure as shown in Figure 3-8.

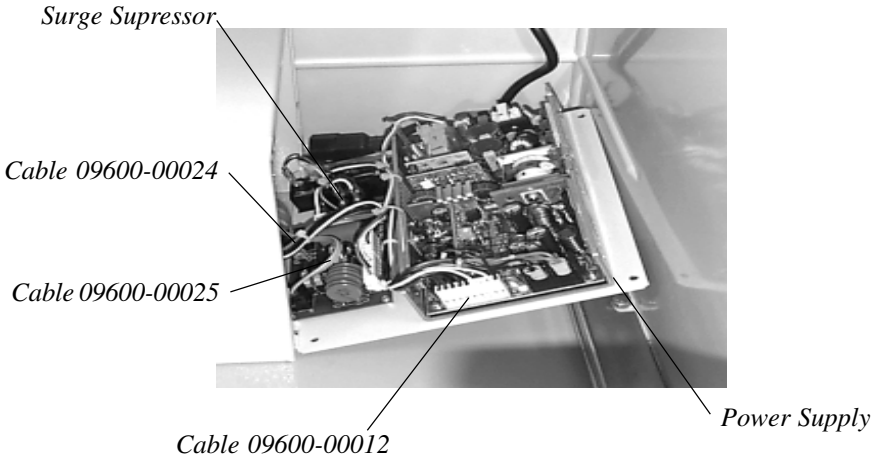


Figure 3-9. Removing the power supply from the card cage.

SECTION 3 - TROUBLESHOOTING AND REPAIR

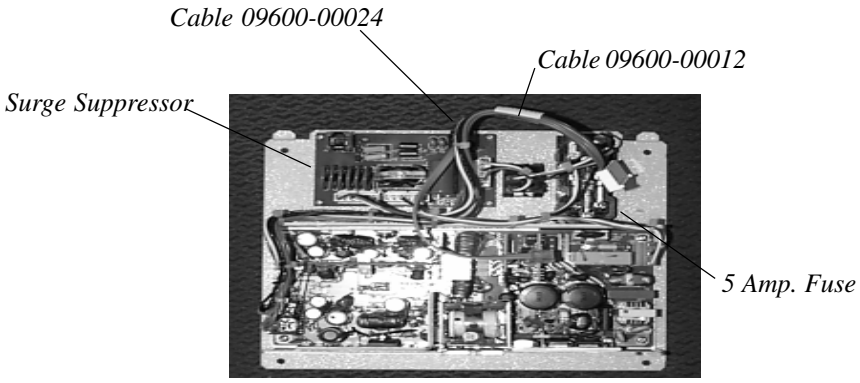


Figure 3-10. The Cash Dispenser Power Supply.

3. Push the AC power switch to the OFF (0) position.

4. Unplug the AC Power input connector from the power supply.

5. Unplug the AC output connector to the Light Housing.

6. Remove the two screws securing the top of the power supply mounting plate and allow it to lay on its side as shown in Figure 3-9.

7. Unplug Cable 09600-00012 from J8 on the Backplane. (See Figure 3-10).

8. Unplug Cable 09600-00025 from J2 on the surge suppressor located next to the power supply module.

10. Grasp the power supply and carefully lift it up while pulling to the right to remove it from the card cage.

INSTALLING A POWER SUPPLY

1. Place the power supply in the upper enclosure with the component side facing up as shown in Figure 3-11.

2. Connect cable 09600-00012 to J10.

SECTION 3 - TROUBLESHOOTING AND REPAIR

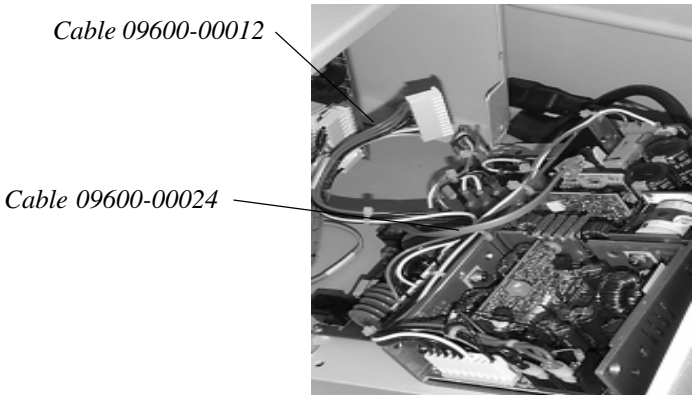


Figure 3-11. Power Supply installation.

3. Connect Cable 09600-00024 to J2 on the Surge Suppressor.

4. Pick up the power supply and align the tabs located on the left side of the mounting plate with the slots on the card cage.

5. Insert the tabs into the slots in card cage and lift the right side of the power supply to pivot it into the card cage as shown in Figure 3-12.

Figure 3-12. Installing the Power Supply into the Electronics Enclosure.

SECTION 3 - TROUBLESHOOTING AND REPAIR

6. Secure the power supply in place with screws (2) located at the upper front and rear corner of the power supply mounting plate.

CAUTION*

Make sure that the wires in the cable harness from the power supply to the backplane do not get pinched between the power supply mounting plate and the electronics enclosure.

REMOVING A PRINTED CIRCUIT BOARD MODULE FROM THE CARD CAGE

Use this procedure to remove any of the following Printed Circuit Board Module from the card cage of the Cash Dispenser (See Figure 3-13):

CPU Module (SSP01)
Memory Module (SSP02)
Modem/LCD Module (SSP03)
Optional Memory Expansion Module (SSP04/04)
Any additional option feature installed in the card cage.

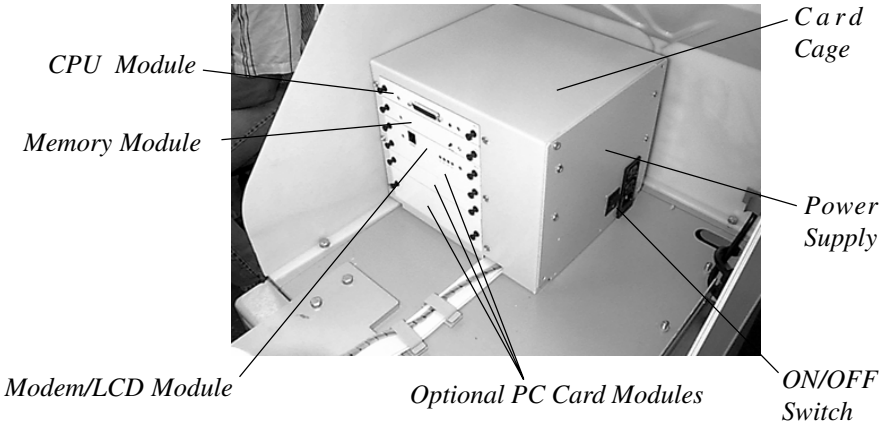


Figure 3-13. The Electronic Enclosure and other components located inside the Upper Enclosure.

SECTION 3 - TROUBLESHOOTING AND REPAIR

CAUTION

Failure to take precautions against possible ESD (Electro-static Discharge) may cause damage to the Printed Circuit Board Module when it is being physically handled.

1. Open the upper enclosure and push the AC Power Switch to the OFF (0) position.

2. Ensure you have grounded yourself by either:

   a. Touching a bare metal part of the cabinet.

   b. Wearing a ESD Wrist Strap that has been connected to earth ground on the cabinet.

3. Grasp the two black fasteners on the Printed Circuit Board Module mounting plate that is to be removed. Pull on the knobs until the fasteners unsnap (See Figure 3-14).

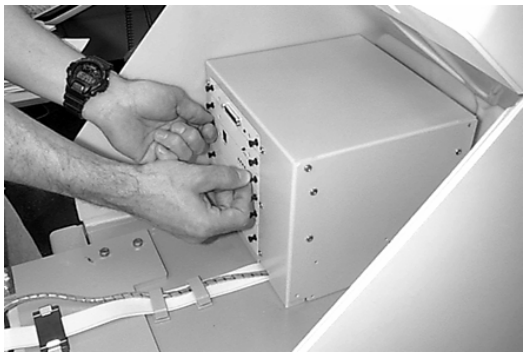


Figure 3-14. Releasing the fasteners from a PC Module.

4. Continue to pull firmly on the fasteners until the Printed Circuit Board Module is released from the connector in the rear of the card cage.

5. Completely remove the Printed Circuit Board Module from the card cage as shown in Figure 3-15. Handle the card by its edges only to prevent possible ESD damage.

6. Place the Printed Circuit Board Module in an anti static bag for storage. See Figure 3-16.

SECTION 3 - TROUBLESHOOTING AND REPAIR

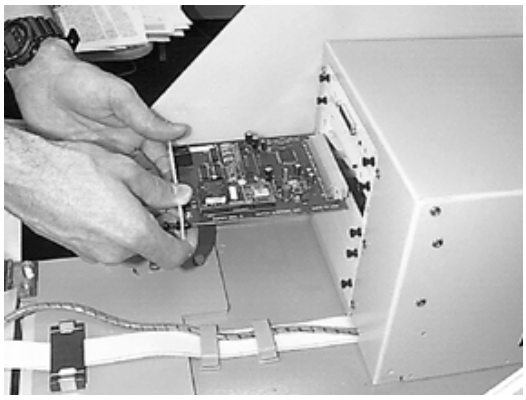


Figure 3-15. Removing a PC Module from the Card Cage.

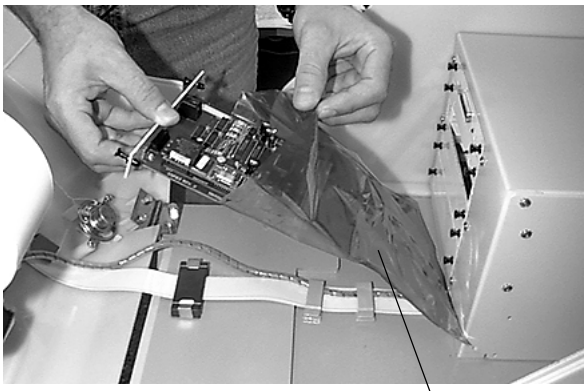


Figure 3-16. Always store and transport PC Modules in an antistatic bag.

SECTION 3 - TROUBLESHOOTING AND REPAIR

INSTALLING A PRINTED CIRCUIT BOARD MODULE IN THE CARD CAGE

Use this procedure to install any of the following Printed Circuit Board Modules in the card cage of the Cash Dispenser:

CPU Module (SSP01)
Memory Module (SSP02)
Modem/LCD Module (SSP03)
Optional Memory Expansion Module (SSP04/04)
Any additional option feature installed in the card cage.

*****CAUTION*****

Failure to take precautions against possible ESD (Electro Static Discharge) may cause damage to the Printed Circuit Board Module when it is being physically handled.

1. Observe all ESD precautions as describe in earlier paragraphs in this chapter.

2. Remove the Printed Circuit Board Module from its ESD protective bag.

3. Hold the Printed Circuit Board Module as shown in Figure 3-17 and align it's edges to the guides in the card cage.

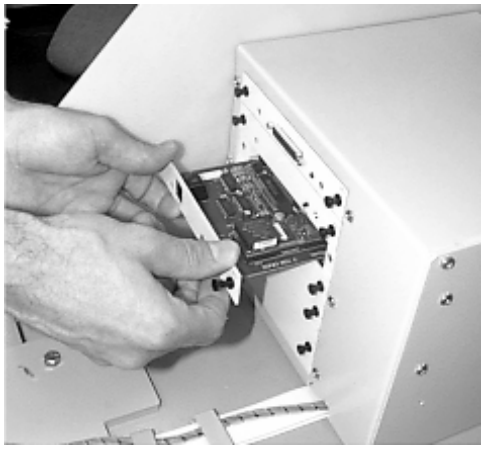


Figure 3-17. Installing a PC Module into the Cash Dispenser card cage.

SECTION 3 - TROUBLESHOOTING AND REPAIR

4. Push the Printed Circuit Board Module into the card cage until is seated firmly in the connector on the Backplane.

CAUTION

Individual cards are designed for a particular slot.
Do not force a card into a slot it is not meant for.

5. Secure the Printed Circuit Board Module in place by pushing the black fasteners in until they lock in place.

REPLACING THE SSP04 BACKPLANE

The Backplane is a replaceable module. Follow the steps listed below to remove and replace the back plane.

1. Open the Top Enclosure and push the AC Power switch on the power supply to the OFF (0) position.

2. Turn OFF AC Power to the Cash Dispenser by unplugging the terminal from it wall socket or turning OFF the circuit breaker at its main power source.

3. Unplug the AC power input plug from the power supply.

4. Unplug the AC power output going to the light housing.

5. Remove all Printed Circuit Board Modules from the card cage.

6. Remove all blank cover plates from the card cage.

7. Remove the power supply from the electronics enclosure.

8. Unplug all cables connected to the backplane.

9. Remove 6 - #8 screws (See Figure 3-18.) that secure the card cage to the electronics enclosure.

SECTION 3 - TROUBLESHOOTING AND REPAIR

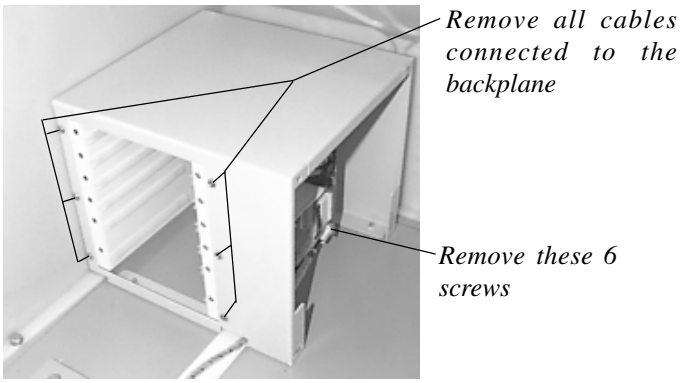


Figure 3-18. Removal of the card cage from the electronics enclosure.

10. Carefully pull the card cage out the front of the electronics enclosure (See Figure 3-19).

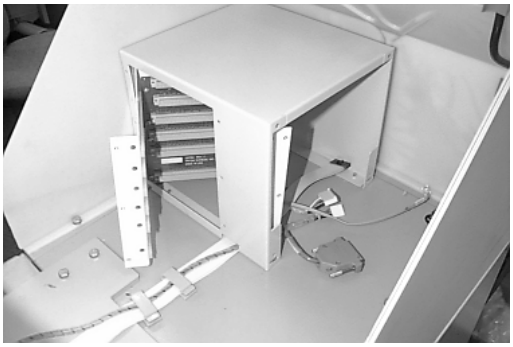


Figure 3-19. Removing the card cage from the electronics enclosure.

11. Remove the 8 screws and star (See Figure 3-20) washers that secure the backplane to the card cage with a Number 1 Phillips screwdriver.

12. Slide the backplane out of the card cage.

13. Slide the new backplane into the card cage and secure it in place with the 8 screws and star washers that were removed earlier in Step 11.

SECTION 3 - TROUBLESHOOTING AND REPAIR

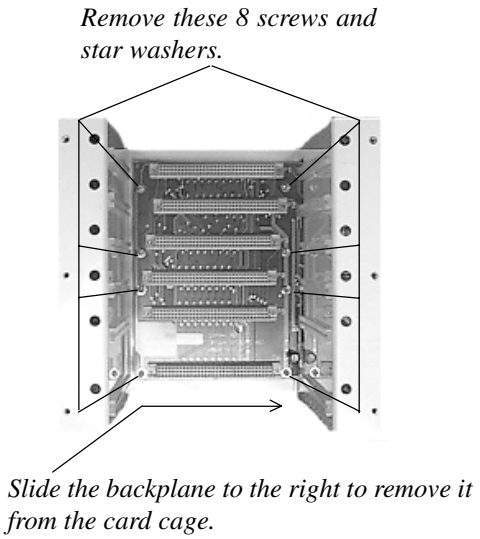


Figure 3-20. Removing the backplane from the card cage.

14. Slide the card cage and backplane into the front of the electronics enclosure. Make sure the front of the card cage is inside the electronics enclosure.

15. Secure the card cage to the electronics enclosure with the 6 #8 screws and star washers removed in Step 9.

16. Connect all cables removed in Step 5 to the backplane. Refer to the Block Diagram in Figure 3-1 to make sure each cable is correctly connected its proper location on the Backplane.

17. Install the power supply. Make sure the power supply output is connected to the backplane.

18. Install all Printed Circuit Board Modules and blank covers. Refer to Figure 3-13 for the correct location of each Printed Circuit Board Module.

19. Connect the AC output power cord from the light housing to the one of the power supply AC outlets.

20. Connect the AC power input cord to the power supply input.

21. Turn on the main power to the terminal.

SECTION 3 - TROUBLESHOOTING AND REPAIR

22. Verify that the terminal is operating normally.

23. Close and secure the Top Enclosure and place the terminal back in operation to perform customer transactions.

REMOVING AND INSTALLING THE PRINTER CONTROLLER MODULE

When a problem occurs with the Printer Controller Module it will be exchanged for a new module. The Printer Controller Module is located on the inside of the front panel of the Cash Dispenser. Use the following procedure to remove and install the Printer Controller Module.

1. Unlock and open the Top Enclosure of the Cash Dispenser. Turn off the AC power to the terminal by pushing the AC power switch to the OFF (0) position.

2. The Printer Controller Module is located on the printer mounting bracket next to the printer (See Figure 3-21.) It's mounted to the bracket on 4 stand-offs that are attached to the bracket with 4 screws.

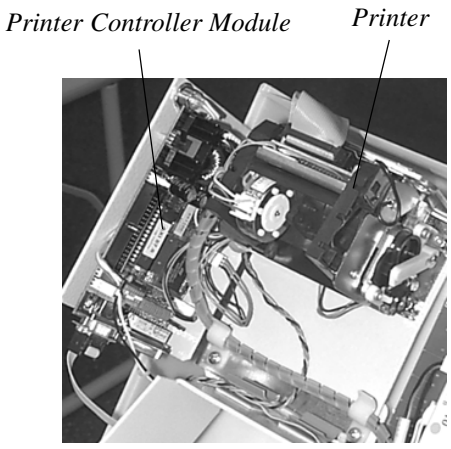


Figure 3-21. The location of the Printer and Printer Controller Module.

SECTION 3 - TROUBLESHOOTING AND REPAIR

3. Remove all connectors that attach to the Printer Controller Module from other modules. It may be necessary to label the connectors as they are removed to ensure it can be installed it the correct location on the new Printer Controller Module.

4. Remove the 4 screws and washers that secure the stand-offs that attach the Printer Controller Board to the printer bracket.

5. Remove the Printer Controller Module from the Cash Dispenser.

6. Remove the 4 stand-offs from the module being replaced and install them on the new Printer Controller Module.

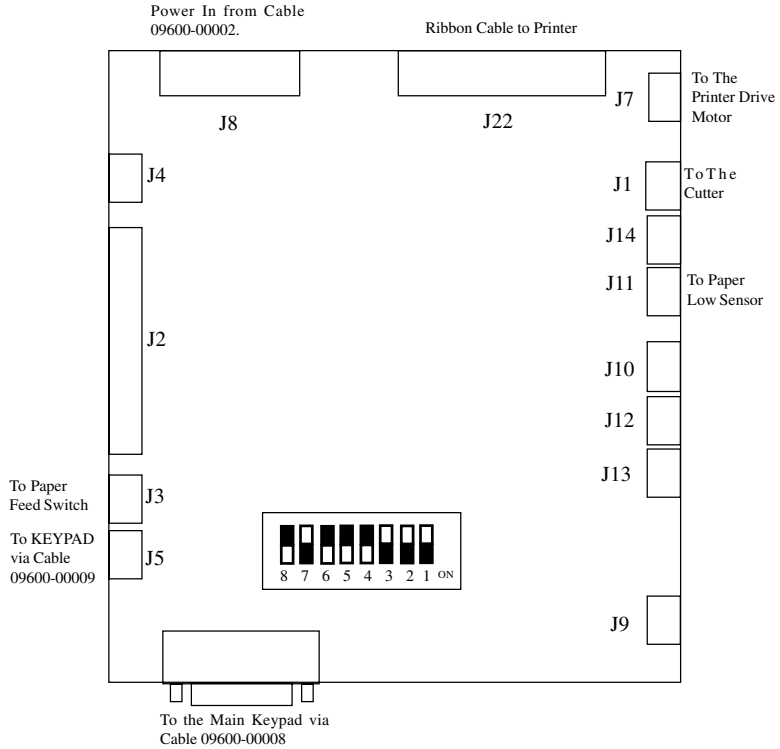


Figure 3-22. Connector location on the Printer Controller Module.

SECTION 3 - TROUBLESHOOTING AND REPAIR

7. Place the new Printer Controller Module onto the printer bracket and secure in place with the 4 screws and washers removed in Step 4.

8. Attach all connectors removed in Step 3 in their correct location. (See Figure 3-22).

9. Turn on the AC power by pushing the AC power switch to the ON (I) position.

10. Complete a Receipt Printer Test to verify that the Printer Controller Module is operating correctly.

11. Close and secure the Top Enclosure and place the terminal back in operation to perform customer transactions.

REMOVING AND INSTALLING A THERMAL PRINTER

The Printer is a non-repairable module that is exchanged for a new module if found defective. The Printer is located on the inside of the front panel of the Cash Dispenser. Use the following procedure to remove and install the Printer.

1. Unlock and open the Top Enclosure of the Cash Dispenser. Turn off the AC power to the terminal by pushing the AC power switch to the OFF (0) position.

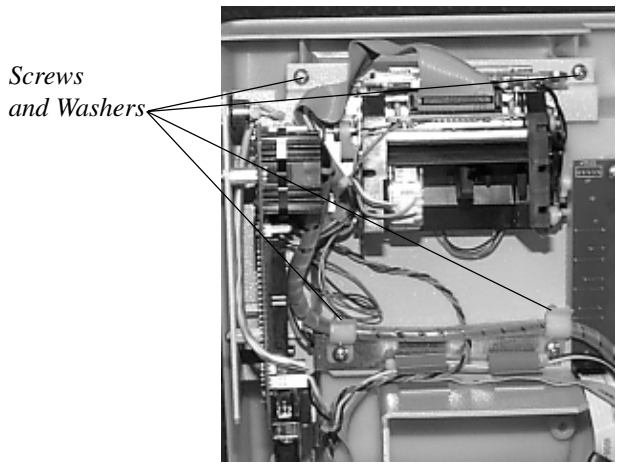


Figure 3-23. The location of the 4 screws and washers that are removed to free the Printer Mounting Brackett from the front Panel. The two bottom screws are located under the cable clamps.

SECTION 3 - TROUBLESHOOTING AND REPAIR

2. The Printer is located on the printer mounting bracket next to the Printer Controller Module (See Figure 3-23). It's mounted directly to the bracket with 4 screws and star washers. The printer bracket must be removed to gain access to the screws that secure the printer in place.

3. Remove the connectors from J5, J8, J11 Printer Controller Module. Remove the serial data input cable to the Printer Controller Module that connects with J3 on the Main Keypad Module.

4. Remove the 1 screw and 1 star washer from each of the 4 corners of the printer mounting bracket (See Figure 3-23).

5. Remove the printer mounting bracket from the front cover.

6. Disconnect all of the remaining connectors that run between the Printer Controller Module and the Printer.

7. Place the Printer on a flat work surface with the back of the mounting bracket facing up.

8. Remove the 4 screws and star washers that secure the Printer Module to the printer mounting bracket (See Figure 3-24).

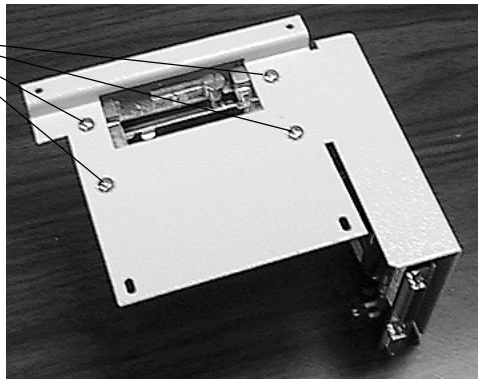


Figure 3-24. Removing the 4 screws shown in the photograph to the left will free the Printer from the Printer Mounting Bracket

9. Place the new printer on the printer mounting bracket and secure it to the bracket with the 4 screws and star washers that were remove in Step 8.

SECTION 3 - TROUBLESHOOTING AND REPAIR

10. Connect all wires coming from the Printer to its correct location on the Printer Controller Module.

11. Place the printer mounting bracket in its location on the rear of the front panel and secure it in place with the 4 screws and washers that were removed in Step 4.

12. Connect the wires removed in Step 3 to J5, J8 and J11. Reconnect the serial input cable to the Printer Controller Module.

13. Apply AC power to the terminal by pushing the AC Power Switch on the power supply to the ON (I) position.

14. Feed paper into the Printer and perform a Receipt Printer Test to verify the Printer is operating normally.

15. Close and secure the Top Enclosure. Place the terminal back in operation to perform customer transactions.

REMOVING AND REPLACING AN INVERTER MODULE

CAUTION*

High voltage is present at the output of the Inverter when the Cash Dispenser is powered ON. Do not attempt to measure this voltage with an ordinary Digital Multimeter.

The Inverter is located on the rear of the Front Panel and shown in Figure 3-25. It is a non-repairable module that is replaced with a new Inverter if found defective. Replace the Inverter following the procedure listed below:

1. Unlock and open the Top Enclosure of the Cash Dispenser. Turn off the AC power to the terminal by pushing the AC power switch to the OFF (0) position.

2. The Inverter is located on the display-mounting bracket. It's mounted directly to the bracket with two screws and two star washers. It is not necessary to remove the display-mounting bracket to replace the Inverter.

SECTION 3 - TROUBLESHOOTING AND REPAIR

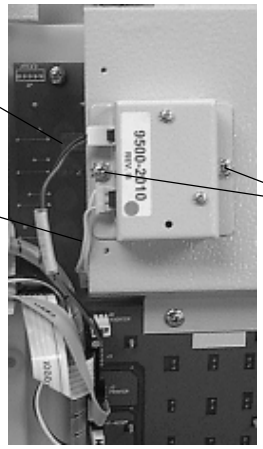


Figure 3-25. The Inverter and its associated connectors and hardware.

3. Remove the two connectors from the Inverter.

CAUTION*

It is extremely important that the power to the Cash Dispenser is turned OFF before disconnecting the any cables from the inverter.

4. Remove the two screws and star washers that secure the Inverter to the mounting bracket
.
5. Place the new Inverter on the display-mounting bracket and secure it in place with the two screws and star washers that were removed in Step 4.

6. Connect the two connector removed in Step 3.

7. Apply AC power to the terminal by pushing the AC Power Switch on the power supply to the ON (I) position.

8. Check the LCD display to ensure that it is brightly lit and that it has good contrast.

SECTION 3 - TROUBLESHOOTING AND REPAIR

REPLACING THE MONOCHROME/COLOR LCD DISPLAY

The monochrome and color displays are essentially non-repairable modules. When it is determined a display is defective it will be exchanged with an operational display. In cases where the lamp is defective, the monochrome and color displays are handled differently. The color display has a field replaceable backlight that can easily be changed by a service technician. The monochrome display backlight is not field replaceable. To change either display, use the following procedure.

1. Unlock and open the Top Enclosure of the Cash Dispenser. Turn off the AC power to the terminal by pushing the AC power switch to the OFF (0) position.

2. The Display is located on a display-mounting bracket (See Figure 3-26). The display-mounting bracket must be remove to change the display

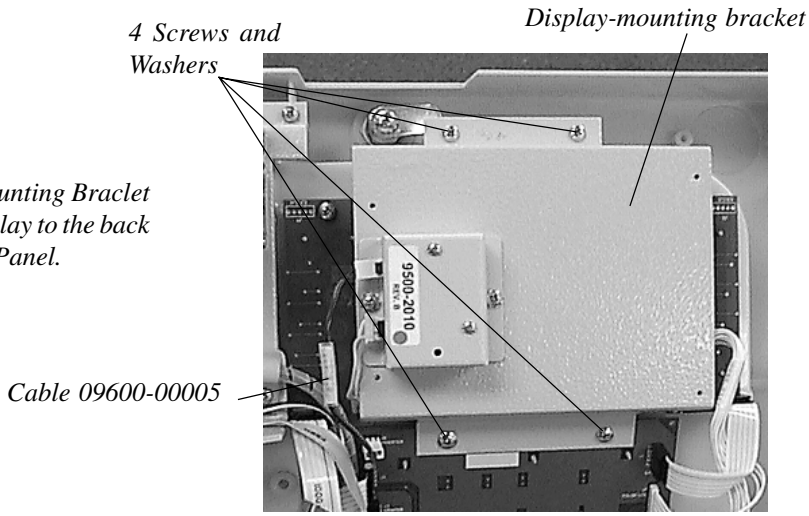


Figure 3-26. The Display Mounting Braclet is used to secure the LCD Display to the back of the Cash Dispenser Front Panel.

3. Disconnect cable 09600-00005 from the Inverter.

4. Disconnect the following cable from the display:

   a. Remove 09600-00003 for a monochrome display.

   b. Remove 09600-00004 for the color display.

SECTION 3 - TROUBLESHOOTING AND REPAIR

5. Remove the 4 screws that attach the display mounting plate to the back of the Cash Dispenser front panel.

6. Disconnect the lamp from the Inverter.

7. Remove the display-mounting bracket and place it on a flat working surface with the Inverter facing down.

8. Remove the 4 screws and lock washers that secure the display to the mounting bracket (See Figure 3-27) and remove the display from the bracket.

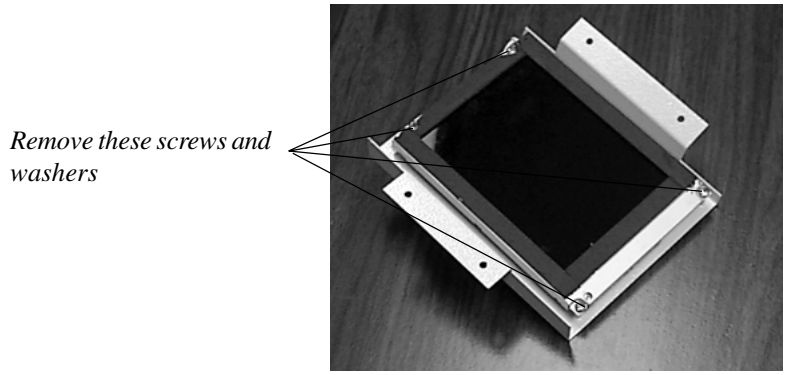


Figure 3-27. Removing and replacing the Color LCD Display on the Cash Dispenser.

9. Steps 9a - 9e refer to color displays. If your display is a monochrome proceed to Step 10.

9a. The color display features a field changeable backlight that can be easily changed by a service technician.

9b. After the display is removed from its mounting bracket, place the display on a clean flat surface face down as shown in Figure 3-28.

9c. To replace the lamp, remove the screw that secures the white plastic lamp module in place. Then lift the lamp module from the end where the screw was removed and pull the lamp assembly out of its mounting slot (See Figure 3-29).

SECTION 3 - TROUBLESHOOTING AND REPAIR

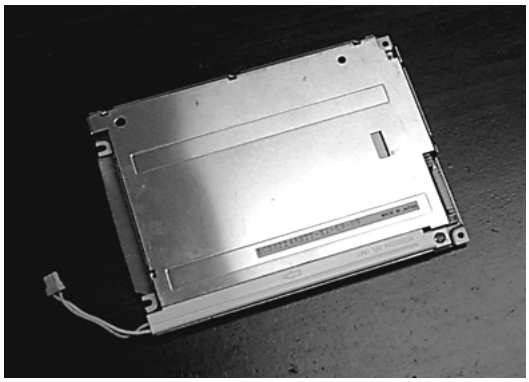


Figure 3-28. The back side of the color LCD Display.

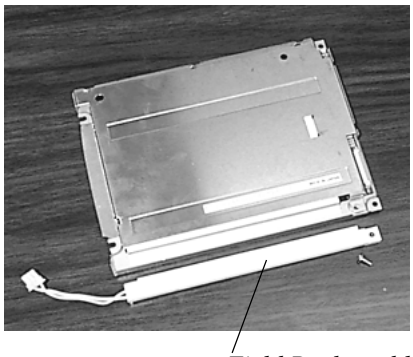


Figure 3-29. The Field Replaceable Backlight romoved from the Color LCD Dislplay.

9d. Place the Field Replaceable Backlight into the Color LCD display by aligning the tab on the end of the backlight opposite from the screw hole with the slot in the lamp mounting bracket.

9e. Secure the Field Replaceable Backlight in place with the screw. Proceed to Step 10 to install the Color LCD Display Module into the Cash Dispenser.

10. Place the new display on the display mounting bracket and secure it in place with the 4 screws and lock washers that were removed in Step 8.

11. Connect the lamp to the Inverter.

12. Install the display-mounting bracket on the front panel assembly. Secure the bracket in place with the 4 screws that were removed in Step 5.

13. Connect the following cable to the display:

    a. 09600-00003 for a monochrome display.

    b. 09600-00004 for the color display.

14. Connect cable 09600-00005 to the Inverter.

15. Apply AC power to the terminal by pushing the AC Power Switch on the power supply to the ON (I) position.

16. Verify the display is operating normally.

17. Close and secure the Top Enclosure. Place the terminal back in operation to perform customer transactions.

REMOVING AND INSTALLING THE MAIN KEYPAD PCB

The Main Keypad PCB is located on the back of the Front Panel. It is a non-repairable module that is replaced with a new keypad module if it is determined to be defective. Replace the Main Keypad PCB following the procedure listed below:

1. Unlock and open the Top Enclosure of the Cash Dispenser. Turn off the AC power to the terminal by pushing the AC power switch to the OFF (0) position.

2. The Main Keypad is located just below the display-mounting bracket on the back of the Front Panel (See Figure 3-30). It's mounted directly to the back of the front panel with 4 screws.

SECTION 3 - TROUBLESHOOTING AND REPAIR

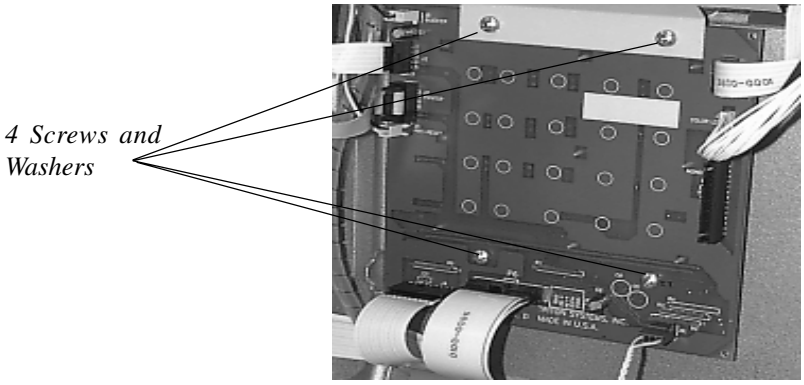


Figure 3-30. Components associated with removing and installing the Main Keypad of the Cash Dispenser.

3. Remove the following connectors from the Main Keypad PCB: (Refer to the Block Diagram in Figure 3-1.)

   J1 - Cable 09600-00001
   J2 - Cable 09600-00001
   J3 - Cable 09600-00008
   J4 - Cable 09600-00007
   J5 - Cable 09600-00009
   J7 - Cable 09600-00004 (Color Display only)
   J8 - Cable 09600-00003 (Monochrome Display only)
   J9 - Cable 09600-00006
   J10 - Cable 09600-00010

4. Remove the 4 screws that secure the Main Keypad PCB to the back of the front panel and remove the keypad from the terminal.

5. Remove the 16-key rubber key assembly from the printed circuit board.

6. Install the 16-key rubber key assembly on the new Main Keypad PCB.

SECTION 3 - TROUBLESHOOTING AND REPAIR

NOTE
Make sure the Rubber Keys are oriented correctly for installation into the Front Panel.

7. Install the Main Keypad PCB and secure in place with the 4 screws removed in Step 5.

8. Connect the cable 09600-00010 to the SSP-10 PCB.

9. Connect the 8 cables that were removed from the Main Keypad PCB in Step 3.

10. Apply AC power to the terminal by pushing the AC Power Switch on the power supply to the ON (I) position.

11. Verify the keypad is operating normally.

12. Close and secure the Top Enclosure. Place the terminal back in operation to perform customer transactions.

REMOVING AND INSTALLING THE 4-KEY KEYPADS

There are two 4-Key Keypads in the Cash Dispenser. These keypads make up the screen keys located on either side of the display. The left Keypad (as viewed from the rear of the front panel) is the 4-Key Keypad (ABCD) and has a part number of 09600-01009. The right 4-Key Keypad (as viewed from the rear of the front panel) is the 4-Key Keypad (EFGH) and has a part number of 09600-01007.

1. Unlock and open the Top Enclosure of the Cash Dispenser. Turn off the AC power to the terminal by pushing the AC power switch to the OFF (0) position.

2. The 4-Key Keypads are located on either side of the display on the back of the Front Panel (See Figure 3-31). Each of the keypads is secured to the front panel with 2 screws.

3. Disconnect the cable at the bottom of the 4-Key Keypad printed circuit board that will be changed.

4. Remove the 2 screws that secure the keypad PCB to the front panel.

SECTION 3 - TROUBLESHOOTING AND REPAIR

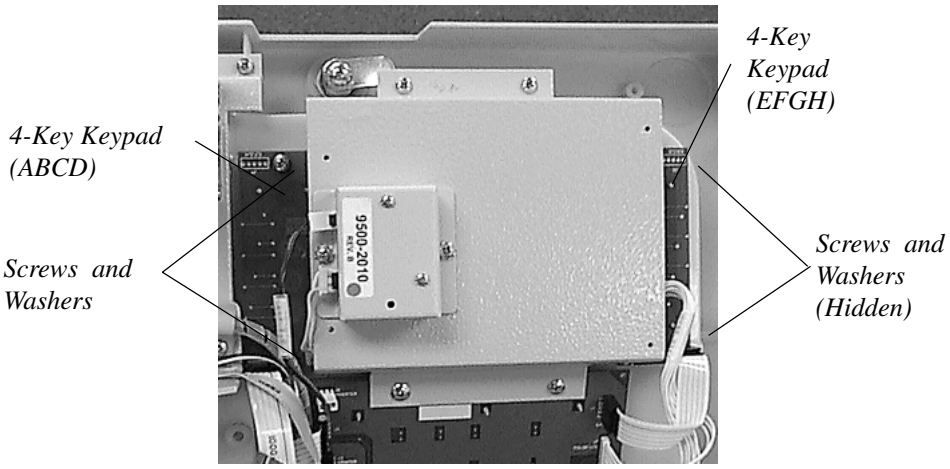


Figure 3-31. Removing and replacing the 4-Key Keypads on the Cash Dispenser.

5. Pull the Keypad printed circuit board and silicon rubber keys out of the front panel.

6. Remove the silicon rubber keys from the Keypad printed circuit board and install it on the new Keypad printed circuit board.

NOTE

Make sure the rubber key assembly is correctly oriented to ensure easy installation of the module into the Front Panel.

7. Install the new Keypad printed circuit board and secure it in place with the two screws removed in Step 4.

8. Connect the cable that was removed in Step 3.

9. Apply AC power to the terminal by pushing the AC Power Switch on the power supply to the ON (I) position.

10. Verify the keypad is operating normally.

SECTION 3 - TROUBLESHOOTING AND REPAIR

11. Close and secure the Top Enclosure. Place the terminal back in operation to perform customer transactions.

REPLACING THE RUBBER KEY ASSEMBLIES FOR THE MAIN AND SCREEN (4-KEY) KEYPADS

The rubber key assemblies for the Main Keypad and the Screen Keypads can be replaced if they become damaged. The procedure outlined in the following paragraphs describe the method for replacing the keypads.

1. Remove the printed circuit board for the keypad that is associated with the damaged rubber key assembly. The procedure for removing and installing the Main and Screen Keypad printed circuit boards can be found on pages 3-44 through 3-47.

2. Remove the damaged rubber key assembly.

3. Install the new rubber key assembly by aligning the cone shaped rubber tabs on the rubber key assembly with the holes on the printed circuit board .

4. Pull each rubber tab through its respective hole to secure the rubber key assembly in place.

REMOVING AND INSTALLING THE CARD READER

The Card Reader is attached to the Front Panel of the Cash Dispenser. To replace the Card Reader proceed as follows:

1. Unlock and open the Top Enclosure. Turn the Cash Dispenser OFF by pushing the AC Power Switch to the OFF (0) position.

2. Locate the Card Reader on the back of the Front Panel. Refer to Figure 3-32.

3. Remove the plug attaching cable 09600-00007 to J1 of the Card Reader.

4. Remove the 4 screws that secure the Card Reader in place on the Front Panel.

SECTION 3 - TROUBLESHOOTING AND REPAIR

CAUTION

The Card Reader may fall from the Front Panel if it not held in place while removing the four screws.

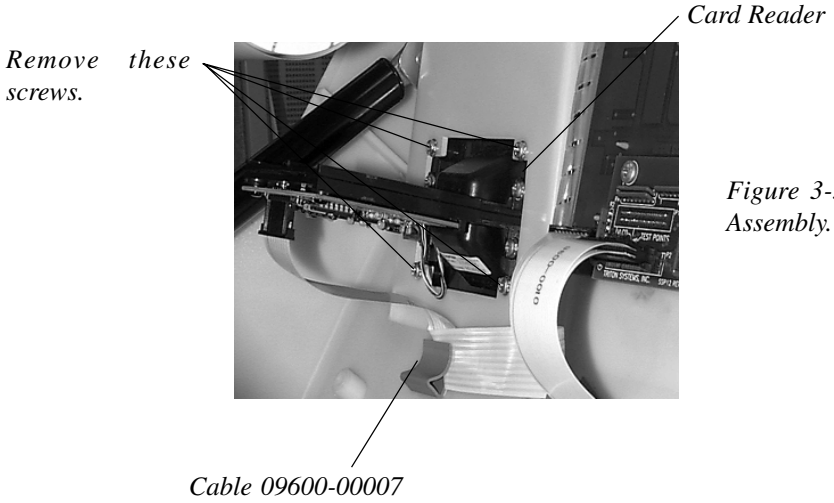


Figure 3-32. Removing the Card Reader Assembly.

5. Remove the Card Reader by pulling it out of the front of the front panel.

6. Install a new Card Reader by sliding it into its slot in the front panel of the Cash Dispenser and securing it in place with the four screws that were removed in Step 4.

7. Connect Cable 09600-00007 to J1 on the Card Reader.

8. Turn the AC power on to the cash dispenser and verify that the card reader is operational
.
9. Close and lock Top Enclosure and return the cash dispenser to normal operation.

REMOVING AND INSTALLING A DISPENSING MECHANISM

The Dispensing Mechanism is a non-repairable module. If the dispenser is defective it will be replaced by new or refurbished module.

1. Unlock and open the Top Enclosure of the Cash Dispenser. Turn off the AC power to the terminal by pushing the AC power switch to the OFF (0) position.

2. Unlock and open the cabinet door fascia to access the combination lock.

SECTION 3 - TROUBLESHOOTING AND REPAIR

3. Open the security cabinet main door by entering the correct combination and releasing the lock mechanism.

4. Remove the Cassette from the Dispensing Mechanism.

5. Pull the dispenser-mounting tray to its extended position.

5. Loosen, but do not remove the 2 wing nuts located at the front of the dispensing mechanism See Figure 3-33).

Figure 3-33. Loosen, but do not remove the wing nuts shown in the photograph to the right.

6. Grasp the dispensing mechanism as shown in Figure 3-34 and pull it up to release it from the tabs located on the bottom front of the mounting tray. Then pull it forward approximately 4 to 6 inches to gain access to the rear of the dispenser.

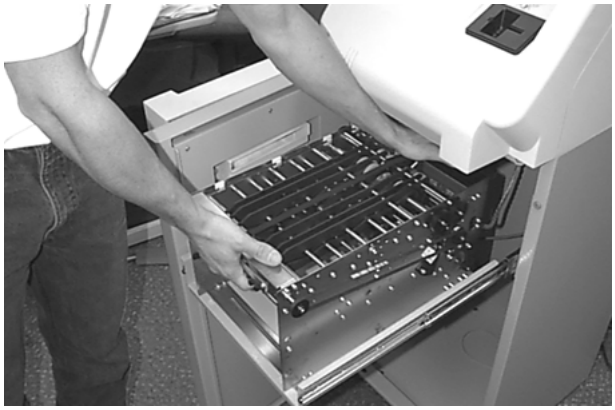


Figure 3-34. Removing the Dispensing Mechanism from the Cash Dispenser

SECTION 3 - TROUBLESHOOTING AND REPAIR

7. Remove the power connector from PL2. Use a flat bladed screwdriver to loosen and remove the DB25 communications connectors from the rear of the dispenser (See Figure 3-35).

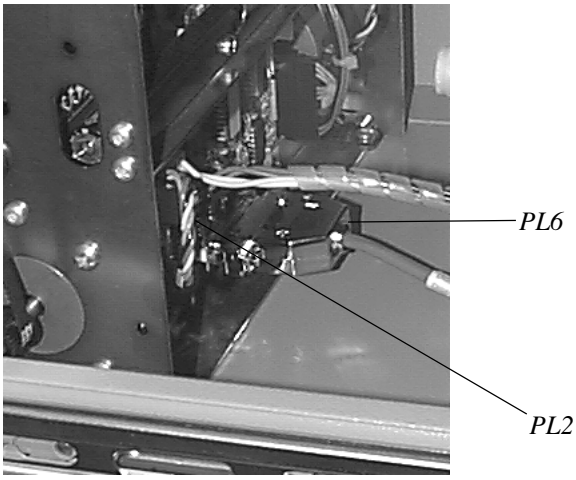


Figure 3-35. Remove PL2 and PL6 from the rear of the Dispensing Mechaniam.

8. Remove the dispenser from the tray.

9. Place the replacement dispenser on the tray.

10. Attach the power connector to PL2 on the rear of the dispenser.

11. Connect the DB25 communications connector to PL6. Make sure it is secured in place by tightening the screws on each side of the connector with a flat bladed screwdriver.

12. (Refer to Figure 3-36.) Slide the dispenser into its operating position by aligning the slots on mechanism's front bottom support bracket with the bolts extending up from the front of the mounting tray. Push the dispenser in so the bottom rear support slides under the raised slots on the rear of the mounting tray and the front support bracket is behind the raised tabs on the front of the mounting tray .

SECTION 3 - TROUBLESHOOTING AND REPAIR

NOTE

The dispenser must be installed so that it is behind the front tabs. If it is not, the bill tray will not line up with the dispenser.

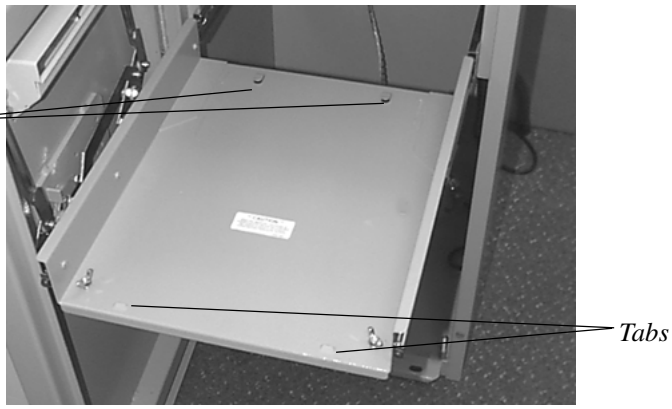


Figure 3-36. The photograph to the left shows the location of the slots and tabs descibed in Paragraph 12.

13. Hand tighten the 2 wing nuts to secure the dispenser in place.

14. Push the dispenser-mounting tray to its closed position.

15. Install the Cassette in the Dispensing Mechanism.

16. Close the security cabinet main door. Close and lock the cabinet door fascia.

17. Place the terminal back in operation to perform customer transactions.

SECTION 3 - TROUBLESHOOTING AND REPAIR

REMOVING AND INSTALLING AN ELECTRONIC JOURNAL

The Electronic Journal (EJ) is located in the Security Cabinet of the Cash Dispenser. The EJ is a non-repairable module and must be replace with a new module if it's defective.

NOTE:

Before replacing the Electronic Journal and if the electronic journal is functional, complete a PRINT JOURNAL function so a hard copy of the journal is available for store personnel.

1. Unlock and open the Top Enclosure of the Cash Dispenser. Turn off the AC power to the terminal by pushing the AC power switch to the OFF (0) position.

2. Unlock and open the cabinet door fascia to access the combination lock.

3. Open the security cabinet main door by entering the correct combination and releasing the lock mechanism.

4. (Refer to Figure 3-37.) The EJ is located in the upper right corner of the inside of the security cabinet. There are two cables attached to it and is secured to the top of the security cabinet with two 1/4"-20 x1" bolts.

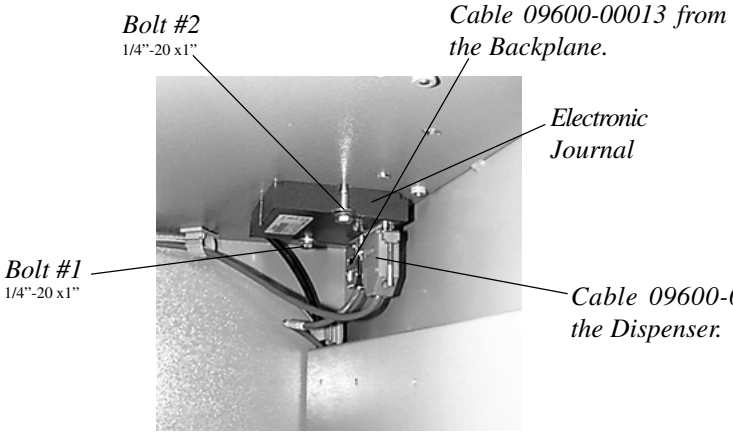


Figure 3-37. The Electronic Joournal and associated components.

SECTION 3 - TROUBLESHOOTING AND REPAIR

5. Remove the dispensing mechanism from the cash dispenser.

6. The EJ is secured to the top of the security cabinet by 2 bolts. For the remainder of this procedure, the bolt closest to the back wall of the security cabinet will be referred to as bolt #1. The bolt closest to the front of the security cabinet is bolt #2.

7. Loosen, but don't remove the bolt #1 with a 7/16-inch socket wrench.

8. Loosen, and remove bolt #2 with a 7/16-inch socket wrench. The EJ is now free and being held by the 2 cables attached to it.

9. Disconnect the two cables (09600-00015 and 09600-00043) that are attached to the EJ.

10 Attach the 09600-00015 and 09600-00043 to the new EJ.

11. Place the EJ in the security cabinet by sliding the U-shaped slot on the EJ under bolt #2. Tighten bolt #2 so its hand tight.

12. Install bolt #1 and tighten to hand tight.

13. Use a 7/16-inch socket wrench to tighten bolts #1 and #2. CAUTION: Over tightening these bolts may cause damage physical damage to the EJ that will void its warranty.

14. Install the dispensing mechanism in the security cabinet.

15. Apply AC power to the terminal by pushing the AC Power Switch on the power supply to the ON (I) position.

16. Verify the new EJ is operating normally by completing a purge from the DIAGNOSTICS menu and then performing a PRINT JOURNAL function to verify the action has been stored in the EJ.

17. Close and secure the security cabinet. Close and lock the cabinet door fascia. Place the terminal back in operation to perform customer transactions.

SECTION 3 - TROUBLESHOOTING AND REPAIR

DISPENSING MECHANISM LED OPERATION

The dispensing mechanism for the Model 9600 Cash Dispenser has several LED indicators that can be helpful as troubleshooting aids.

These LEDs are on the dispenser controller printed circuit board which is located on the rear of the dispensing mechanism.

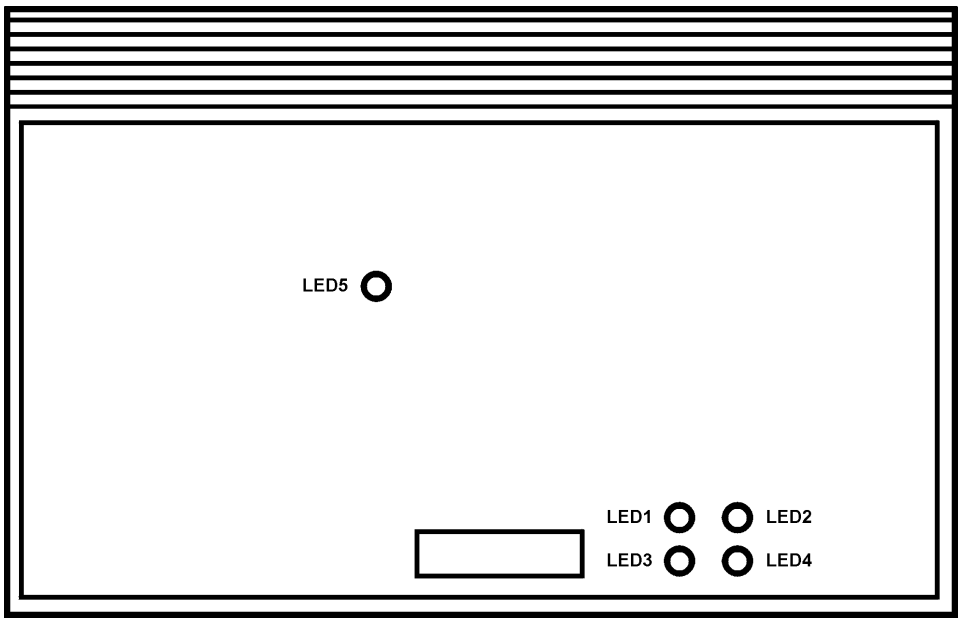


Figure 3-38. Dispenser Mechanism Printed Circuit Board.

LED 1 - Timing Wheel Sensor Operation

When the timing wheel sensor is blocked by the timing disc, LED 1 should be ON. When the timing wheel sensor is not blocked by the timing wheel disc, LED 1 should be OFF. LED 1 should toggle between ON and OFF when the timing disc is manually rotated, to confirm that the timing wheel sensor is working correctly.

LED 2 - Feed Sensor Operation

When the feed sensor is blocked by the diverter arm, LED 2 should be ON. When the feed sensor is not blocked by the diverter arm, LED 2 should be OFF. To check the correct operation of the feed sensor, the diverter arm should be lifted up to confirm the ON and OFF states of the LED.

SECTION 3 - TROUBLESHOOTING AND REPAIR

LED 3 - Exit Sensor Operation

When the exit sensor is blocked by a note, LED 3 should be ON. When the exit sensor is not blocked by a note, LED 3 should be OFF. To check the correct operation of the exit sensor, a note or sheet of paper should be placed under the exit sensor to confirm the ON and OFF states of the LED.

LED 4 - Cassette Low Sensor Operation

When a cassette containing a suitable quantity of notes is fitted into the mechanism, LED 4 should be ON. When a cassette that is either empty or has a very low quantity (about 60) of notes is placed in the mechanism, LED 4 should be OFF. To check the correct operation of the cassette low sensor, insert a half-filled cassette into the mechanism and confirm LED 4 is OFF.

LED 5 - Power On Indicator

When the +5V logic power supply is applied to the mechanism, LED 5 should be ON.

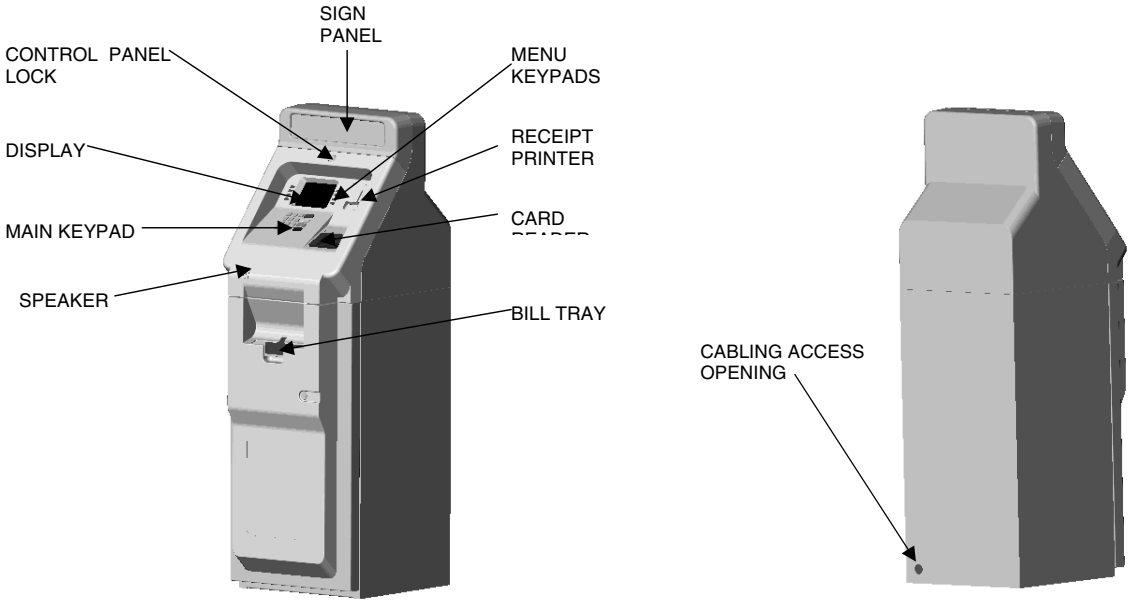
APPENDIX A
CASH DISPENSER SPECIFICATIONS

APPENDIX A - CASH DISPENSER SPECIFICATIONS

MODEL 9600 SINGLE-CASSETTE CASH DISPENSER (FRONT ACCESS)	
GENERAL SPECIFICATIONS	
U.L. APPROVAL	U.L. 291 BUSINESS HOURS SERVICE
INPUT VOLTAGE:	100-127 OR 200-250 VAC
INPUT FREQUENCY:	50 OR 60 HERTZ
INPUT CURRENT:	4.2A RMS FOR 115 VAC (MAXIMUM) 2.0A RMS FOR 230 VAC (TYPICAL)
POWER CONSUMPTION:	500 WATTS PEAK 200 WATTS TYPICAL
SURGE PROTECTION:	BUILT-IN
PHYSICAL SECURITY:	U.L. LISTED GROUP 2 MECHANICAL LOCK (STANDARD). U.L. LISTED GROUP 1 ELECTRONIC LOCK (OPTIONAL). FASCIA AND CONTROL PANEL KEY LOCKS (CAN BE UPGRADED TO HIGH SECURITY KEYLOCKS).
ALARM PROTECTION:	DOOR CONTACT AND TEMPERATURE SENSORS (OPTIONAL). ELECTRONIC LOCK PROVIDES LOCKOUT UPON ENTRY OF INVALID COMBINATION (USER SELECTABLE OPTION). AUDIT TRAIL LOCK RECORDS ALL LOCK EVENTS AND PROVIDES INCREASED PHYSICAL SECURITY (OPTIONAL).
OPERATING ENVIRONMENT:	TEMPERATURE: 10-40 DEG. C, 50-104 DEG. F RELATIVE HUMIDITY: 20%-80% (NON-CONDENSING)
BASIC DIMENSIONS:	HEIGHT: 57.5 IN. [1461MM] DEPTH: 22.3 IN. [566MM] WIDTH: 18.0 IN. [457MM] WEIGHT: 275 LBS. [125 KG]
FINISH:	TEXTURED MEDIUM AND LIGHT GRAY.
MOUNTING SPECIFICATIONS:	MOUNTED IN PLACE BY (4) 1/2-IN ANCHOR BOLTS SECURED INTO FLOOR.
CASSETTE CONFIGURATION:	SINGLE CASSETTE, FRONT ACCESS.

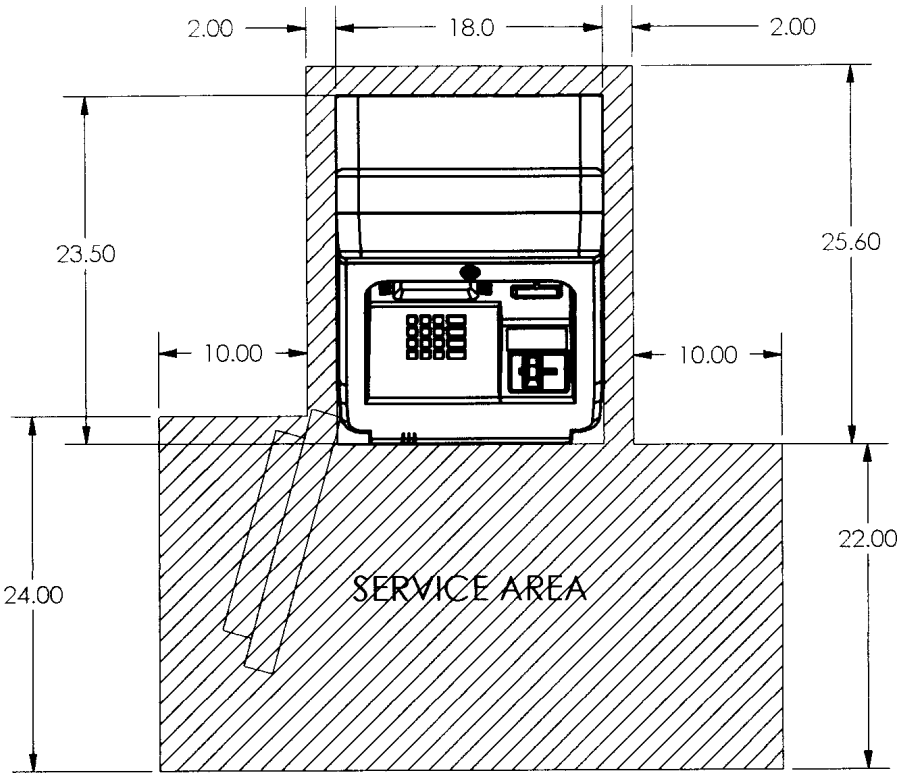
APPENDIX A - CASH DISPENSER SPECIFICATIONS

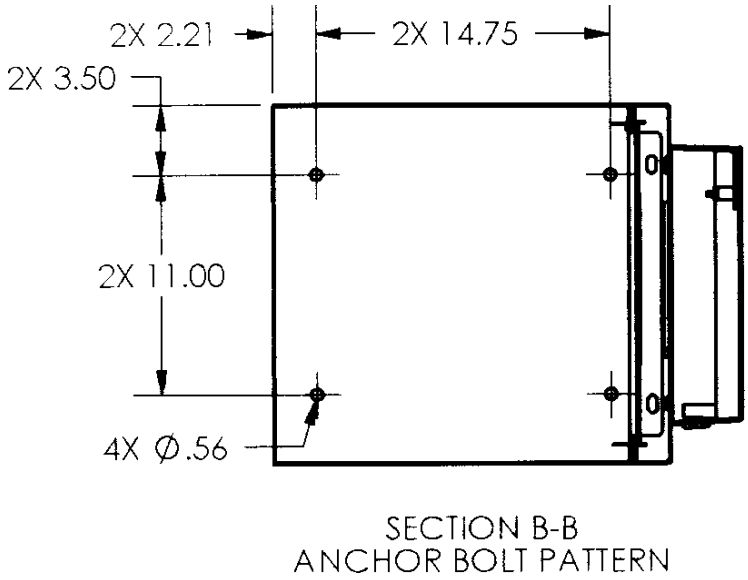
MODEL 9600 SINGLE-CASSETTE CASH DISPENSER (FRONT ACCESS)	
PHONE LINE REQUIREMENTS	
PHONE LINE:	SHIELDED FOUR CONDUCTOR, LOW CAPACITANCE CABLE (2 WIRES USED). #24 AWG STRANDED COPPER WIRE (NOT TO BE SPLICED). DEDICATED LINE.
115 VAC WIRING REQUIREMENTS	
AC CIRCUIT:	DEDICATED 115 VAC, 60 HZ SINGLE PHASE 3-WIRE CONDUCTOR, 15 AMP SERVICE, UNSWITCHED BRANCH CIRCUIT.
WIRE SIZE:	THREE #12 AWG SOLID OR STRANDED COPPER WITH THIRD WIRE EARTH GROUND.
RECEPTACLE:	ONE NEMA 5-15R (15A/125V) SINGLE RECEPTACLE WITH ISOLATED GROUND.
POSITION:	A.C. RECEPTACLE IS TO BE POSITIONED IN/ON THE WALL DIRECTLY BEHIND THE CASH DISPENSER AND ISOLATED FROM THE GENERAL PUBLIC.



Model 9600 Cash Dispenser

APPENDIX A - CASH DISPENSER SPECIFICATIONS



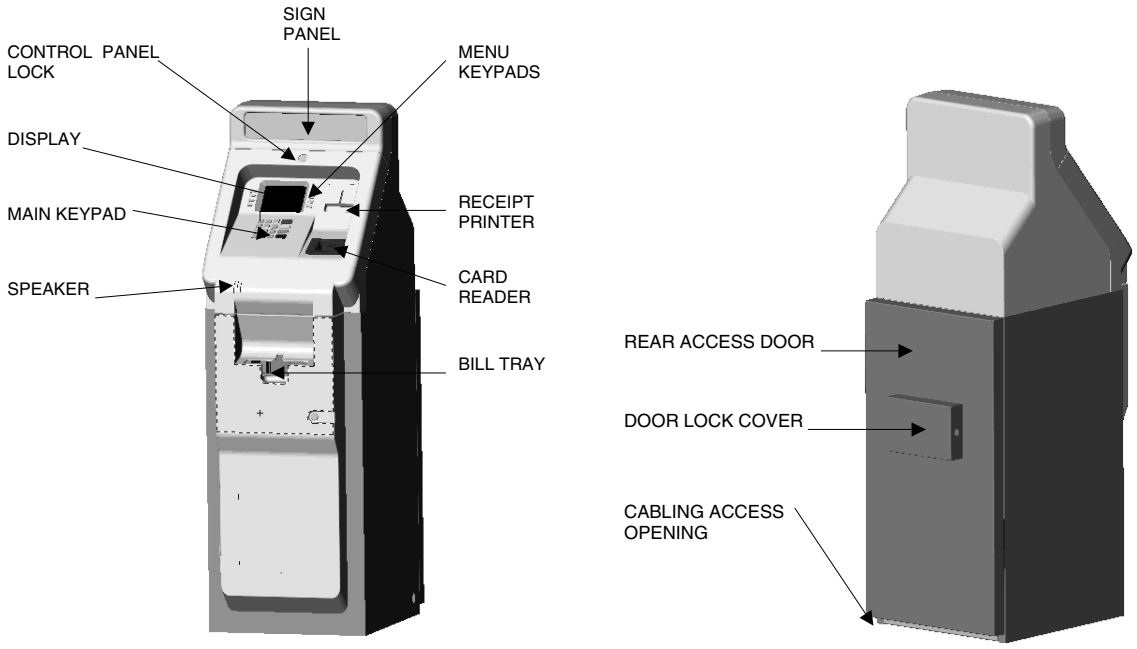


Model 9600 Cash Dispenser Service Clearance Area and Mounting Bolt Pattern.

APPENDIX A - CASH DISPENSER SPECIFICATIONS

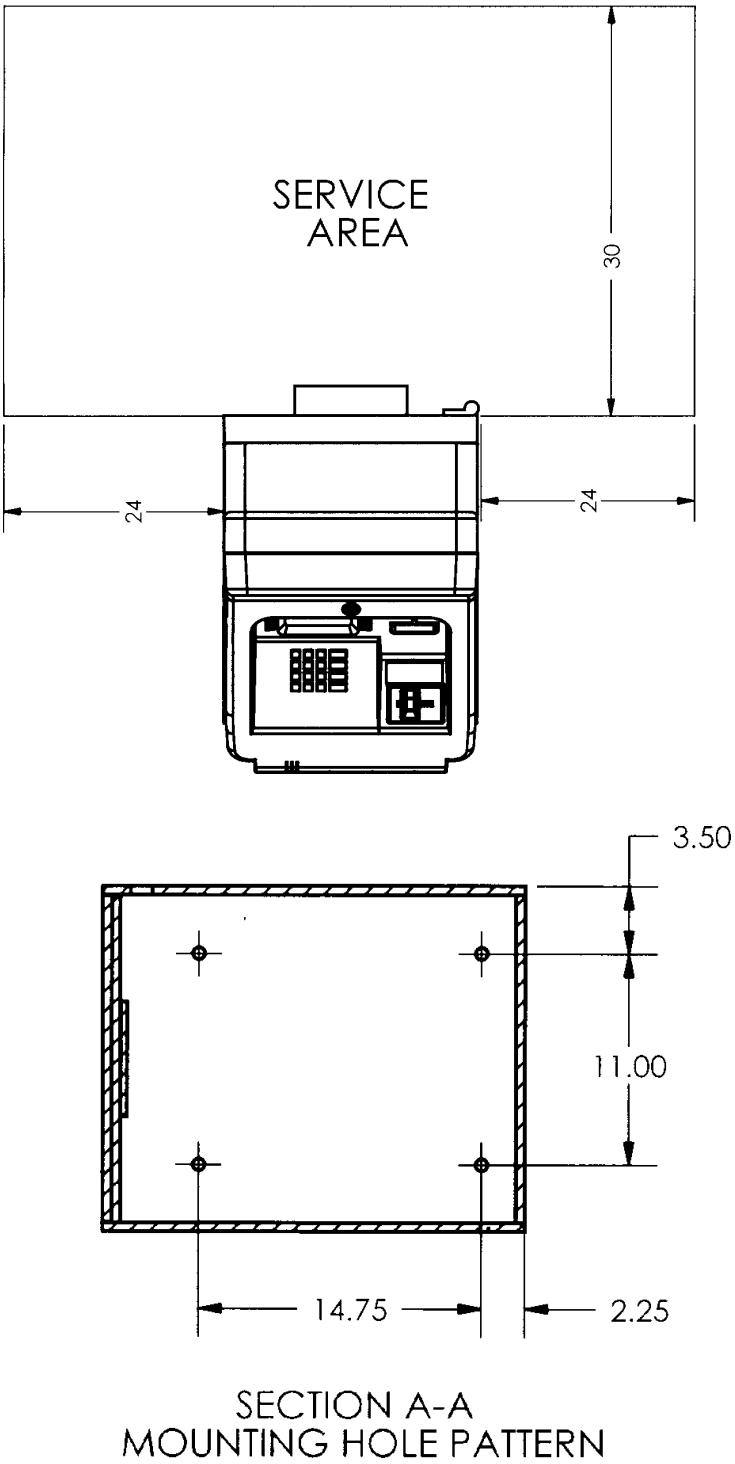
MODEL 9601 SINGLE-CASSETTE CASH DISPENSER (REAR ACCESS)	
GENERAL SPECIFICATIONS	
U.L. APPROVAL	U.L. 291 BUSINESS HOURS SERVICE
INPUT VOLTAGE:	100-127 OR 200-250 VAC
INPUT FREQUENCY:	50 OR 60 HERTZ
INPUT CURRENT:	4.2A RMS FOR 115 VAC (MAXIMUM) 2.0A RMS FOR 230 VAC (TYPICAL)
POWER CONSUMPTION:	500 WATTS PEAK 200 WATTS TYPICAL
SURGE PROTECTION:	BUILT-IN
PHYSICAL SECURITY:	U.L. LISTED GROUP 2 MECHANICAL LOCK (STANDARD). U.L. LISTED GROUP 1 ELECTRONIC LOCK (OPTIONAL). FASCIA AND CONTROL PANEL KEY LOCKS (CAN BE UPGRADED TO HIGH SECURITY KEYLOCKS).
ALARM PROTECTION:	DOOR CONTACT AND TEMPERATURE SENSORS (OPTIONAL). ELECTRONIC LOCK PROVIDES LOCKOUT UPON ENTRY OF INVALID COMBINATION (USER SELECTABLE OPTION). AUDIT TRAIL LOCK RECORDS ALL LOCK EVENTS AND PROVIDES INCREASED PHYSICAL SECURITY (OPTIONAL).
OPERATING ENVIRONMENT:	TEMPERATURE: 10-40 DEG. C, 50-104 DEG. F RELATIVE HUMIDITY: 20%-80% (NON-CONDENSING)
BASIC DIMENSIONS:	HEIGHT: 57.5 IN. [1461MM] DEPTH: 27.5 IN. [699 MM] WIDTH: 18.0 IN. [457MM] WEIGHT: 275 LBS. [127 KG]
FINISH:	TEXTURED MEDIUM AND LIGHT GRAY.
MOUNTING SPECIFICATIONS:	MOUNTED IN PLACE BY (4) 1/2-IN ANCHOR BOLTS SECURED INTO FLOOR.
CASSETTE CONFIGURATION:	SINGLE CASSETTE, REAR ACCESS.

MODEL 9601 SINGLE-CASSETTE CASH DISPENSER (REAR ACCESS)	
PHONE LINE REQUIREMENTS	
PHONE LINE:	SHIELDED FOUR CONDUCTOR, LOW CAPACITANCE CABLE (2 WIRES USED). #24 AWG STRANDED COPPER WIRE (NOT TO BE SPLICED). DEDICATED LINE.
115 VAC WIRING REQUIREMENTS	
AC CIRCUIT:	DEDICATED 115 VAC, 60 HZ SINGLE PHASE 3-WIRE CONDUCTOR, 15 AMP SERVICE, UNSWITCHED BRANCH CIRCUIT.
WIRE SIZE:	THREE #12 AWG SOLID OR STRANDED COPPER WITH THIRD WIRE EARTH GROUND.
RECEPTACLE:	ONE NEMA 5-15R (15A/125V) SINGLE RECEPTACLE WITH ISOLATED GROUND.
POSITION:	A.C. RECEPTACLE IS TO BE POSITIONED IN/ON THE WALL DIRECTLY BEHIND THE CASH DISPENSER AND ISOLATED FROM THE GENERAL PUBLIC.



Model 9601 Cash Dispenser

APPENDIX A - CASH DISPENSER SPECIFICATIONS



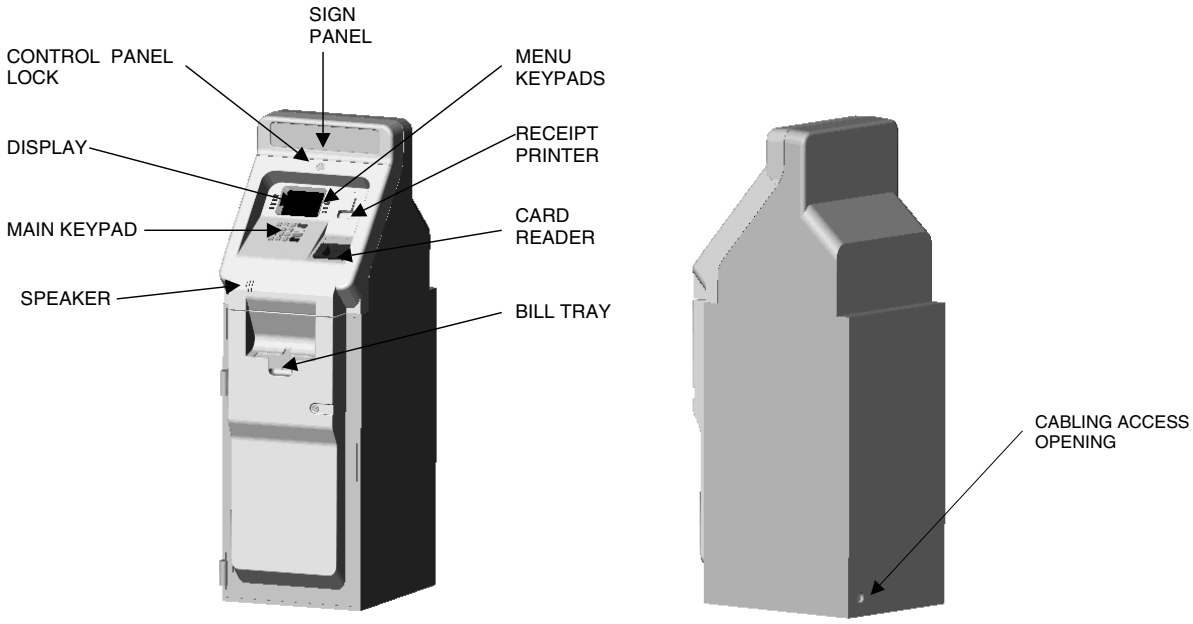
Model 9601 Cash Dispenser Service Clearance Area and Mounting Bolt Pattern.

APPENDIX A - CASH DISPENSER SPECIFICATIONS

MODEL 9620 SINGLE-CASSETTE CASH DISPENSER (FRONT ACCESS)	
GENERAL SPECIFICATIONS	
U.L. APPROVAL	U.L. 291 LEVEL 1
INPUT VOLTAGE:	100-127 OR 200-250 VAC
INPUT FREQUENCY:	50 OR 60 HERTZ
INPUT CURRENT:	4.2A RMS FOR 115 VAC (MAXIMUM) 2.0A RMS FOR 230 VAC (TYPICAL)
POWER CONSUMPTION:	500 WATTS PEAK 200 WATTS TYPICAL
SURGE PROTECTION:	BUILT-IN
PHYSICAL SECURITY:	U.L. LISTED GROUP 2 MECHANICAL LOCK (STANDARD). U.L. LISTED GROUP 1 ELECTRONIC LOCK (OPTIONAL). FASCIA AND CONTROL PANEL KEY LOCKS (CAN BE UPGRADED TO HIGH SECURITY KEYLOCKS).
ALARM PROTECTION:	DOOR CONTACT AND TEMPERATURE SENSORS (OPTIONAL). ELECTRONIC LOCK PROVIDES LOCKOUT UPON ENTRY OF INVALID COMBINATION (USER SELECTABLE OPTION). AUDIT TRAIL LOCK RECORDS ALL LOCK EVENTS AND PROVIDES INCREASED PHYSICAL SECURITY (OPTIONAL).
OPERATING ENVIRONMENT:	TEMPERATURE: 10-40 DEG. C, 50-104 DEG. F RELATIVE HUMIDITY: 20%-80% (NON-CONDENSING)
BASIC DIMENSIONS:	HEIGHT: 57.5 IN. [1461MM] DEPTH: 25.5 IN. [648 MM] WIDTH: 18.0 IN. [457MM] WEIGHT: 630 LBS. [286 KG]
FINISH:	TEXTURED MEDIUM AND LIGHT GRAY.
MOUNTING SPECIFICATIONS:	MOUNTED IN PLACE BY (4) 1/2-IN ANCHOR BOLTS SECURED INTO FLOOR.
CASSETTE CONFIGURATION:	SINGLE CASSETTE, FRONT ACCESS.

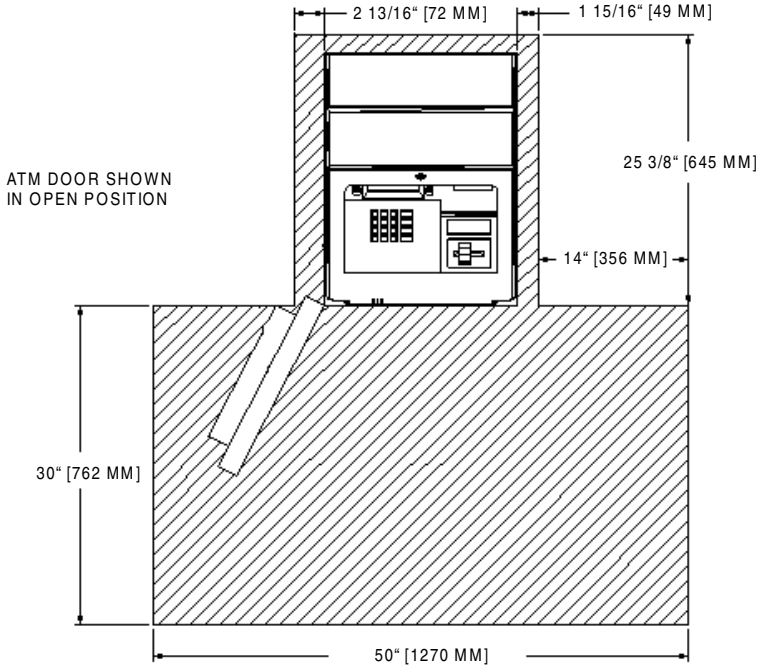
APPENDIX A - CASH DISPENSER SPECIFICATIONS

MODEL 9620 SINGLE-CASSETTE CASH DISPENSER (FRONT ACCESS)	
PHONE LINE REQUIREMENTS	
PHONE LINE:	SHIELDED FOUR CONDUCTOR, LOW CAPACITANCE CABLE (2 WIRES USED). #24 AWG STRANDED COPPER WIRE (NOT TO BE SPLICED). DEDICATED LINE.
115 VAC WIRING REQUIREMENTS	
AC CIRCUIT:	DEDICATED 115 VAC, 60 HZ SINGLE PHASE 3-WIRE CONDUCTOR, 15 AMP SERVICE, UNSWITCHED BRANCH CIRCUIT.
WIRE SIZE:	THREE #12 AWG SOLID OR STRANDED COPPER WITH THIRD WIRE EARTH GROUND.
RECEPTACLE:	ONE NEMA 5-15R (15A/125V) SINGLE RECEPTACLE WITH ISOLATED GROUND.
POSITION:	A.C. RECEPTACLE IS TO BE POSITIONED IN/ON THE WALL DIRECTLY BEHIND THE CASH DISPENSER AND ISOLATED FROM THE GENERAL PUBLIC.

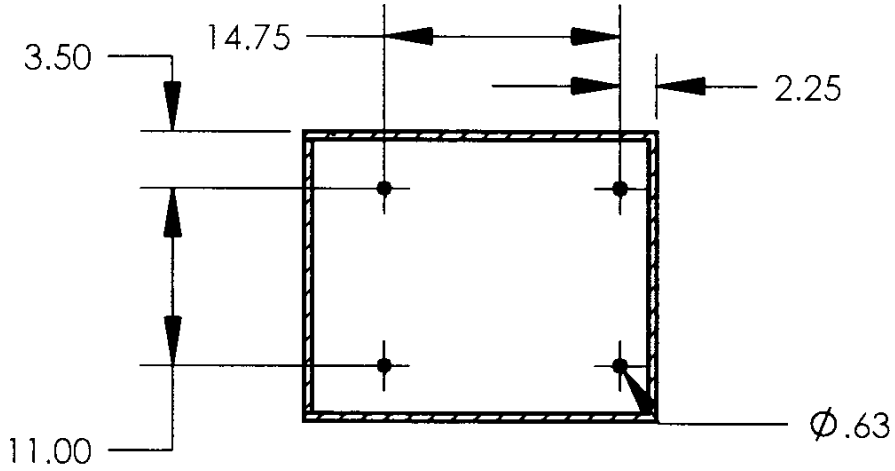


Model 9620 Cash Dispenser

APPENDIX A - CASH DISPENSER SPECIFICATIONS



SERVICE CLEARANCE AREA
TOP VIEW



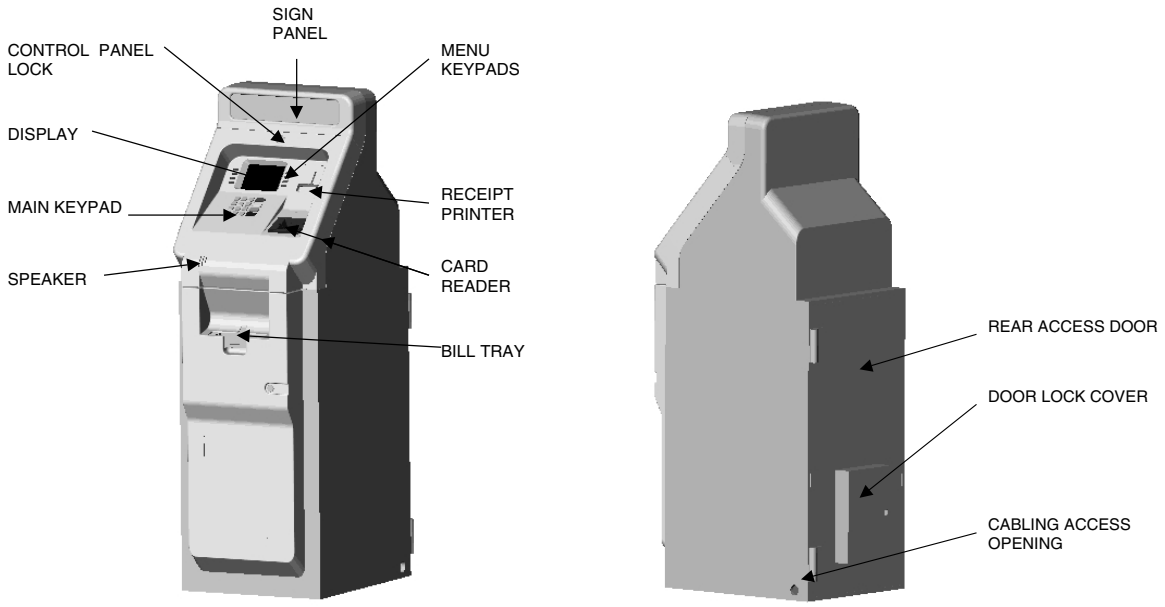
SECTION A-A
MOUNTING HOLE PATTERN

Model 9620 Cash Dispenser Service Clearance Area and Mounting Bolt Pattern.

APPENDIX A - CASH DISPENSER SPECIFICATIONS

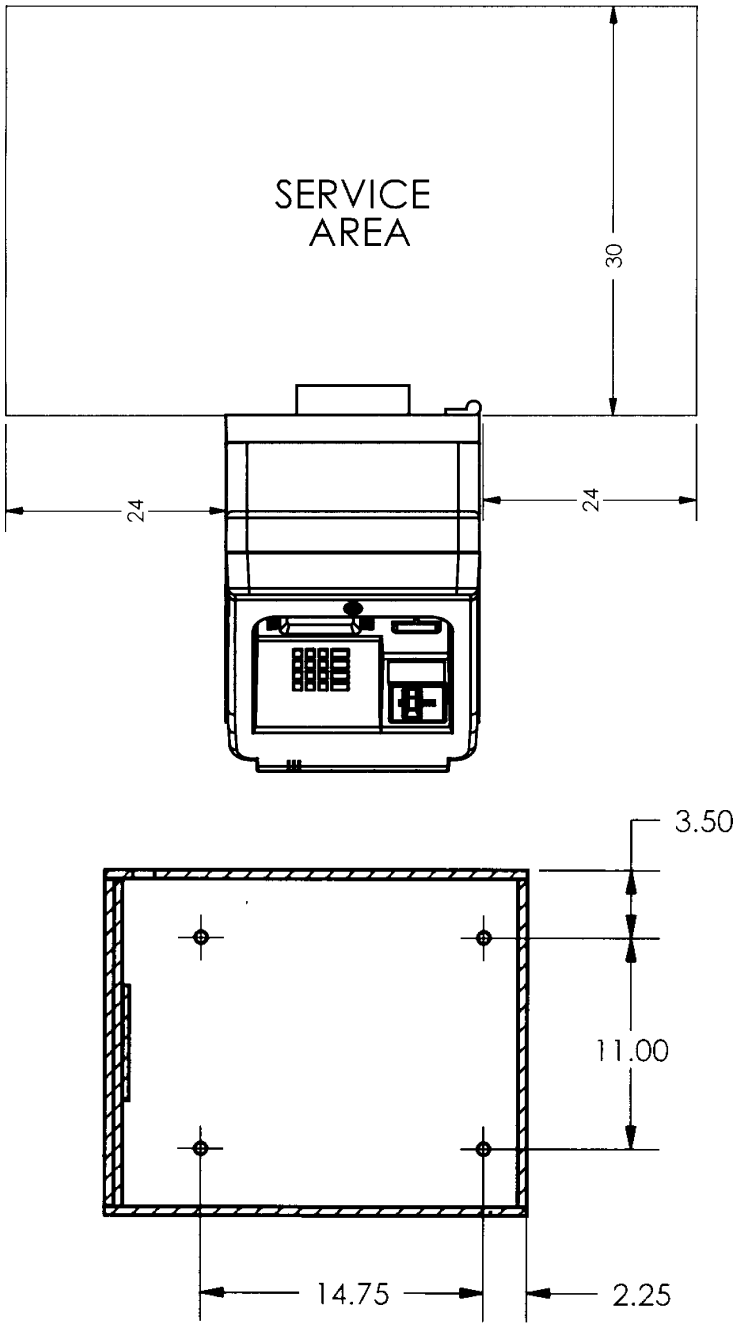
MODEL 9621 SINGLE-CASSETTE CASH DISPENSER (REAR ACCESS)	
GENERAL SPECIFICATIONS	
U.L. APPROVAL	U.L. 291 LEVEL 1
INPUT VOLTAGE:	100-127 OR 200-250 VAC
INPUT FREQUENCY:	50 OR 60 HERTZ
INPUT CURRENT:	4.2A RMS FOR 115 VAC (MAXIMUM) 2.0A RMS FOR 230 VAC (TYPICAL)
POWER CONSUMPTION:	500 WATTS PEAK 200 WATTS TYPICAL
SURGE PROTECTION:	BUILT-IN
PHYSICAL SECURITY:	U.L. LISTED GROUP 2 MECHANICAL LOCK (STANDARD). U.L. LISTED GROUP 1 ELECTRONIC LOCK (OPTIONAL). FASCIA AND CONTROL PANEL KEY LOCKS (CAN BE UPGRADED TO HIGH SECURITY KEYLOCKS).
ALARM PROTECTION:	DOOR CONTACT AND TEMPERATURE SENSORS (OPTIONAL). ELECTRONIC LOCK PROVIDES LOCKOUT UPON ENTRY OF INVALID COMBINATION (USER SELECTABLE OPTION). AUDIT TRAIL LOCK RECORDS ALL LOCK EVENTS AND PROVIDES INCREASED PHYSICAL SECURITY (OPTIONAL).
OPERATING ENVIRONMENT:	TEMPERATURE: 10-40 DEG. C, 50-104 DEG. F RELATIVE HUMIDITY: 20%-80% (NON-CONDENSING)
BASIC DIMENSIONS:	HEIGHT: 57.5 IN. [1461MM] DEPTH: 25.5 IN. [648 MM] WIDTH: 18.0 IN. [457MM] WEIGHT: 630 LBS. [286 KG]
FINISH:	TEXTURED MEDIUM AND LIGHT GRAY.
MOUNTING SPECIFICATIONS:	MOUNTED IN PLACE BY (4) 1/2-IN ANCHOR BOLTS SECURED INTO FLOOR.
CASSETTE CONFIGURATION:	SINGLE CASSETTE, REAR ACCESS.

MODEL 9621 SINGLE-CASSETTE CASH DISPENSER (REAR ACCESS)	
PHONE LINE REQUIREMENTS	
PHONE LINE:	SHIELDED FOUR CONDUCTOR, LOW CAPACITANCE CABLE (2 WIRES USED). #24 AWG STRANDED COPPER WIRE (NOT TO BE SPLICED). DEDICATED LINE.
115 VAC WIRING REQUIREMENTS	
AC CIRCUIT:	DEDICATED 115 VAC, 60 HZ SINGLE PHASE 3-WIRE CONDUCTOR, 15 AMP SERVICE, UNSWITCHED BRANCH CIRCUIT.
WIRE SIZE:	THREE #12 AWG SOLID OR STRANDED COPPER WITH THIRD WIRE EARTH GROUND.
RECEPTACLE:	ONE NEMA 5-15R (15A/125V) SINGLE RECEPTACLE WITH ISOLATED GROUND.
POSITION:	A.C. RECEPTACLE IS TO BE POSITIONED IN/ON THE WALL DIRECTLY BEHIND THE CASH DISPENSER AND ISOLATED FROM THE GENERAL PUBLIC.



Model 9621 Cash Dispenser

APPENDIX A - CASH DISPENSER SPECIFICATIONS



Model 9621 Cash Dispenser Service Clearance Area and Mounting Bolt Pattern.

APPENDIX B
FIELD-REPLACEABLE PARTS

APPENDIX B - FIELD-REPLACEABLE PARTS

Part Number		Description
Electronic Modules		
09500-02009		Electronic Journal/Security Module
09500-02012		"Red" Demo Electronic Journal
09500-08105		Electronic Journal/ Upgrade Kit
09600-01006		Main Keypad PCB w/Keypad
09600-01007		4-Key Keypad PCB (ABCD) w/Keypad
09600-01008		Surge Suppressor Module
09600-01009		4-Key Keypad PCB (EFGH) w/Keypad
09600-02001		CPU Module Assembly
09600-02002		Memory Module (U.S.)
09600-02003		2400 Baud Modem/LCD Module (Color)
09600-02004		Memory Expansion Board: 1 MB
09600-02005		2400 Baud Modem/LCD Module (Monochrome)
09600-02009		14,400 Baud Modem/LCD Module (Color)
09600-02010		14,400 Baud Modem/LCD Module (Monochrome)
09600-02011		33,600 Baud Modem/LCD Module (Color)
09600-02012		33,600 Baud Modem/LCD Module (Monochrome)
09600-02018		Card Cage Assembly, Complete
09600-02019		Power Supply Assembly w/Surge Suppressor (U.S.)
09600-02022		Card Cage Insert Assembly
09600-02031		Memory Expansion Board: 2 MB
09600-02032		Memory Expansion Board: 4 MB
09600-02041		Memory Module (Canada)
09600-06013		Electronic Card Cage Assembly w/Backplane
09600-06041		Backplane Assembly
09600-06059		Power Supply Assembly w/Surge Suppressor (Canada)
09600-06077		Quadport Module

APPENDIX B - FIELD-REPLACEABLE PARTS

Part Number		Description
		Front Panel
03041-00000		Paper Spindle
09600-02007		Card Reader w/HDW, Tracks 1 & 2
09600-02016		Paper Bracket w/HDW and Paper Low Sensor
09600-02017		Paper Low Sensor Assy
09600-02020		Control Panel Assembly, Complete (Color)
09600-02021		Control Panel Assembly, Complete (Monochrome)
09600-06009		Printer Chute Kit
09600-06011		Color Display Mounting Kit
09600-06012		Monochrome Display Mounting Kit
09600-06024		Standard LCD Window w/O-Ring and HDW
09600-06026		Printer Mechanism Kit
09600-06039		Color Display w/Gasket and HDW
09600-06040		Monochrome Display w/Gasket and HDW
09600-06043		Printer Controller PCB Kit
09600-06067		Monochrome Display Bulb Replacement Kit
09600-06068		Color Display Bulb Replacement Kit
09700-03316		4-Key Keypad (ABCD)
09700-03317		4-Key Keypad (EFGH)
09700-03318		Main Keypad

APPENDIX B - FIELD-REPLACEABLE PARTS

Part Number		Description
Dispenser		
05000-00026		Dispenser Mechanism w/Lockbox Cassette, Loading Tray
05000-00027		Lockbox Cassette w/2 Keys (U.S.)
05000-00027C		Lockbox Cassette "CORE" (U.S.)
05000-00029		Dispenser Mechanism
05000-00029C		Dispenser Mechanism "CORE"
05000-00031		Cassette Loading Keys
05000-00045		Dispenser Mechanism , Rear Access Version
05000-00046		Lockbox Cassette w/2 Keys (Canada)
05000-0046C		Lockbox Cassette "CORE" (Canada)
09600-06000		Dispenser Tray w/Tray Half of Slide
09600-06001		Dispenser Tray Slides, Full Pair w/HDW

APPENDIX B - FIELD-REPLACEABLE PARTS

Part Number		Description
Cables		
09500-00042		Multi-Cassette Dispenser Power Cable
09600-00001		4-Key Keypad Cable
09600-00002		Printer Power Cable
09600-00003		Monochrome LCD Data Cable
09600-00004		Color LCD Data Cable
09600-00005		Inverter Power Cable
09600-00006		Speaker Assembly
09600-00007		Card Reader Data Cable
09600-00008		Printer Communications Cable
09600-00009		Printer Reset Cable
09600-00010		Backplane-to-Main Keypad Data Cable
09600-00012		9600 Power Supply DC Output Cable
09600-00013		Single-Cassette Dispenser Power Cable
09600-00023		AC Power Input Cable
09600-00024		Surge Suppressor Modular Cable
09600-00025		Phone Line Cable (12 feet)
09600-00027		E.J. Module-to-Single Cassette Dispenser Mechanism Cable
09600-02200		Program Load cable
09600-02201		Program Load Adapter
09615-00002		Power Supply-to-Multi-Cassette Power Cable (230 V)

APPENDIX B - FIELD-REPLACEABLE PARTS

Part Number		Description
		Cabinetry
03071-00001		Control Panel Fascia Std. Lock w/Keys
03140-00000		Control Panel Dampener
05000-00013		Combination Lock Change Key Only
05000-01000		Keys, 1-Pair, Control Panel & Security Cabinet Fascia
09600-03000		Cabinet, Complete w/out Head & Fascia
09600-06002		Back Housing Kit
09600-06003		Light Housing Kit
09600-06005		Dampener Brackets Kit
09600-06007		Control Panel Hinges w/HDW
09600-06014		Fascia Hinge Kit
09600-06016		Bill Tray, Complete w/Mounting H/W
09600-06025		Control Panel Kit
09600-06028		Fascia Kit
09600-06029		Door Bolt Actuator ("Tee" Handle)
09600-06030		Combination Lock Assy, Complete w/Change Key, Dial, Trim Ring
09600-06031		Dial & Trim Ring for Combination Lock
09600-06052		T-Handle Bushing Replacement Kit

APPENDIX B - FIELD-REPLACEABLE PARTS

Part Number		Description
		Miscellaneous
01220-00001		Light Bulb for the High Topper
01220-00002		Light Bulb for the Low Topper
03130-00000		High Topper Front Panel w/Triton Graphics
03130-00001		Low Topper Triton Graphics/High Topper Rear Triton Graphics
		Panel (Field Installed)
03130-00002		High Topper Side Panel w/Triton Graphics (1 Panel)
03130-00003		Low Topper White Panel/High Topper Rear White Panel (Field Installed)
03130-00004		High Topper White Front Panel
03130-00006		High Topper LED Front Panel w/Triton Graphics
03130-00007		High Topper White Side Panel (1 Panel)
03130-00008		High Topper Custom Front Panel
03130-00009		High Topper Custom Side Panels (2 Panels)
03130-00010		Low Topper Custom Panel/High Topper Rear Custom Panel
03130-00011		High Topper with LED Custom Front Panel
05000-00033		Electronic Combination Lock
05000-00064		Combination Lock
05200-00002		Software Diskette, 3.5"
07103-00032		Operations Manual
07103-00034		Service Manual
09500-01005		Spacer Block, Package of 10
09500-02008		ATM Alarm Package
09600-02040		Hand Held Remote for LED
09600-02043		High Topper Light Kit
09600-06020		Low Topper w/Light, Triton Panels (Field Installled)
09600-06022		High Topper w/Light, Triton Panels (Field Installed)
09600-06023		High Topper w/Light, No Panels (Field Installed)
09600-06048		9600 Receipt Paper (Case = 8 Rolls)
09600-06049		9600 Receipt Paper (1/2 Case = 4 Rolls)
09600-06056		High Security Keylock Kit (Canada)
09600-06061		High Topper Housing (Field Installed)
09600-06062		Scrolling LED Sign for Low Topper Without Quadport Module
09600-06064		Low Topper Light Kit (Field Installed)
09600-06070		Low Receipt Paper Sensor Bracket Retrofit Kit (Box of 10)
09600-06071		Low Topper w/Light, No Panels (Field Installed)
09600-06072		Low Topper w/out Light, White Panels (Field Installed)
09600-06073		Low Topper w/out Light, Custom Panels (Field Installed)
09600-06074		Scrolling LED Sign for Low Topper With Quadport Module
09600-06075		Scrolling LED Sign for High Topper With Quadport Module
09600-06076		Scrolling LED Sign for High Topper Without Quadport Module
09600-06078		High Topper w/Light, White Panels (Field Installed)
09600-06079		High Topper w/Light, No Panels (Field Installed)
09700-03107		Bracket, Spare Card
09700-03108		Bracket, Floppy Dummy
09700-03313		Low Topper Housing (Field Installed)

APPENDIX C
MECHANICAL COMBINATION LOCK
INSTRUCTIONS

APPENDIX C - MECHANICAL COMBINATION LOCK INSTRUCTIONS

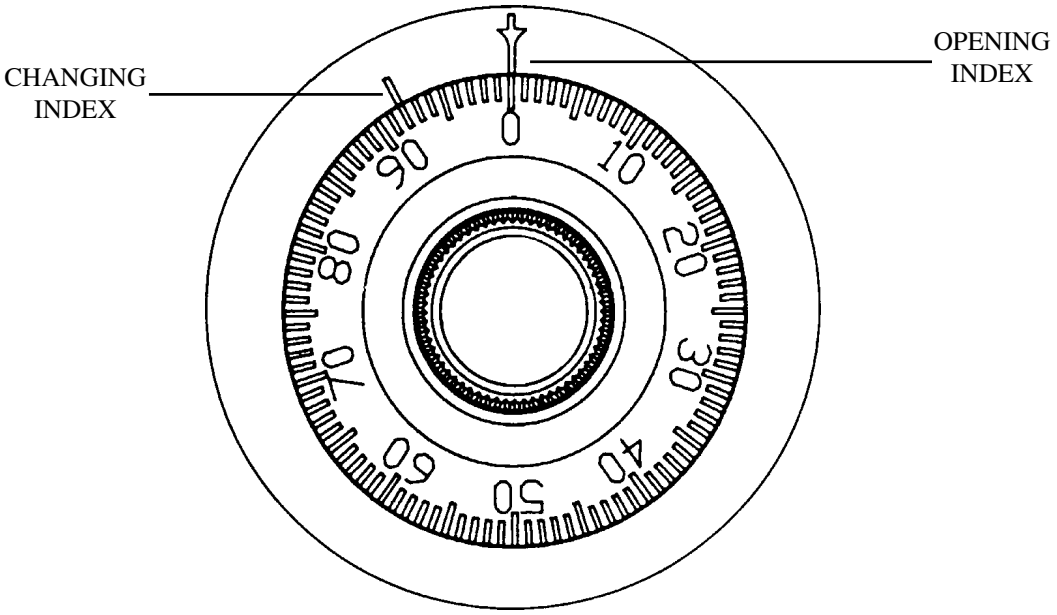
ABOUT THE DIAL

There are two marks on the dial ring (see drawing). The index at the top is used for opening the lock, The index 30 degrees to the left is used only when changing the combination.

The dial should always be turned slowly and evenly. A revolution is counted each time the selected number is aligned with the opening index. **DO NOT TURN THE DIAL BACK TO COMPENSATE FOR OVER DIALING A NUMBER**. If, when dialing the combination, any number is turned beyond the index, the entire sequence must be repeated.

Locks are shipped on a factory setting of '50'. To unlock, turn the dial to the left (counterclockwise) **FOUR** turns stopping on '50'.

Then, turn the dial to the right until the bolt is retracted.



UNLOCKING 3-NUMBER COMBINATIONS (For example, "50-25-50")

1. Turn the dial to the **LEFT**, stopping when '50' is aligned with the opening index, the **FOURTH** time.
2. Turn the dial to the **RIGHT**, stopping when '25' is aligned with the opening index, the **THIRD** time.
3. Turn the dial to the **LEFT**, stopping when '50' is aligned with the opening index, the **SECOND** time.
4. Turn the dial slowly to the **RIGHT** until the bolt retracts.

TO LOCK

Turn the dial to the **LEFT** at least four full revolutions.

APPENDIX C - MECHANICAL COMBINATION LOCK INSTRUCTIONS

CHANGING THE COMBINATION

Select three new numbers. **DO NOT** use any number between 1 and 20 for the last number.

For maximum security, do not use numbers that end in 0 or 5, and do not use numbers in sequence: e.g., '27-48-86' is not as good as '27-86-48". Perform the following steps:

1. Dial the existing combination on the opening index (see steps 1-2-3 above, or the directions for opening when on the factory setting). Open door of container.
2. Dial the existing combination again, using the changing index.
3. With the last number set at the changing index, hold the dial securely and insert the change key in the keyhole in the back of the lock. Make sure the wing is entirely inside the lock and comes to a positive stop (see Figure 1) before turning the key.

*****WARNING*****

NEVER INSERT THE CHANGE KEY IN THE LOCK WHEN THE COVER IS REMOVED. BEFORE TURNING THE CHANGE KEY, MAKE SURE THE WING OF THE KEY IS FULLY INSERTED INTO THE LOCK.

4. Turn key one-quarter turn to the **LEFT** (see Figure 1). With the change key in this position, set the new combination as follows: turn the dial to the **LEFT**, stopping when the first number of the new combination aligns with the changing index the **FOURTH** time.

FIGURE 1

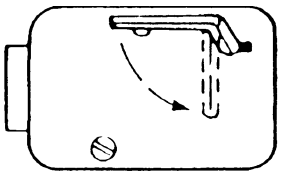
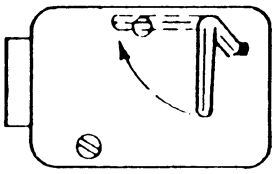


FIGURE 2



5. Turn dial to the **RIGHT**, stopping when the second number is aligned with the changing index, the **THIRD** time.

6. Turn the dial to the **LEFT**, stopping when the third number is aligned with the changing index, the **SECOND** time. Holding the dial in this position, turn the change key back to the **RIGHT** and remove it. (See Figure 2.) The new combination you have chosen is now set in the lock,

*****CAUTION*****

**BEFORE CLOSING THE UNIT
TRY THE NEW COMBINATION SEVERAL TIMES
USING THE OPENING INDEX.**

APPENDIX D
ELECTRONIC COMBINATION LOCK INSTRUCTIONS

APPENDIX D - ELECTRONIC COMBINATION LOCK INSTRUCTIONS

ENTERING THE COMBINATION

The electronic lock combination consists of six digits. Upon arrival, the combination of the lock should already be set at 1-2-3-4-5-6. After installation on the safe has been completed, enter the preset combination and check for proper operation. After each keypress, the lock will beep. After the final digit has been entered, the lock will beep twice, and the open period will begin. When a valid combination has been entered, the operator will have approximately 3 seconds to open the lock. To open the lock, turn the dial clockwise. After the lock is opened, the door latch may be turned and the safe opened.

CHANGING THE COMBINATION

To change the combination of the lock, simply follow these directions.

- Enter six zeros.
- Enter the current combination. (Initially set at 1-2-3-4-5-6)
- Enter the new combination twice.
- The combination is now chanced. Enter the new combination to open the lock.

LOCKOUT FEATURE

The electronic lock includes a WRONG TRY PENALTY lockout feature that prevents entry from unauthorized personnel. This feature performs as follows and CANNOT be disabled:

- Entry of four consecutive invalid combinations will disable the lock for 5 minutes. During this period, the panel LED will flash every 10 seconds. During this time the lock will remain closed and no other combination entries will be allowed.

- At the end of the lockout period, if two more consecutive invalid combinations are entered, the 5-minute lockout period will restart.

BATTERY REPLACEMENT

Repeated beeping while the lock is open indicates that the 9 volt battery, located in the battery box on the inside of the door, needs to be replaced. To remove the battery box cover, pull gently on the front of the box and slide the cover off. If the lock will not operate while the door is closed and locked, (i.e. no signal from the panel when a button is pressed), the battery is dead and the lock will need to be energized from the two round jumper terminals located on the front, right side of the push-button panel. To energize the lock, connect a 9-volt battery across the external terminals with the negative terminal of the battery facing up. While holding the battery against the terminals, enter the six-digit combination and open the lock and door. Replace the battery inside the battery box.

APPENDIX E
USER-CONFIGURABLE
EPROM ACCESS CODE

APPENDIX E - SETTING THE EPROM ACCESS CODE

SETTING THE USER CONFIGURABLE EPROM ACCESS CODE

A recent change to the 9500/9600 Family Cash Dispenser firmware introduces a new feature that will provide even greater security to the entire product line. The new feature will allow each distributor of our product line to select their own unique EPROM access code for each terminal they sell or service.

This procedure effects all 9500/9600 Family Cash Dispensers and new or refurbished cash dispenser main printed circuit boards shipped on or after May 12, 1997. All main boards affected by this procedure will have an EPROM (U1) with the version identifier "CD03.00" or higher printed on the label attached to the component.

This addendum describes the following:

- CHANGING THE EPROM ACCESS CODE FOR NEW INSTALLATIONS AND MAIN PCB CHANGES.
- CHANGING THE EXISTING EPROM ACCESS CODE.
- WHAT TO DO WHEN THE EPROM ACCESS CODE IS UNKNOWN.

All cash dispenser main printed circuit boards will ship from Triton Systems, Inc. with the "default" EPROM access code of "123456". Installation and service personnel must change the factory default EPROM access code to a new six digit number when installing a new terminal or changing the cash dispenser's main circuit board.

1. CHANGING THE EPROM ACCESS CODE FOR NEW INSTALLATIONS AND MAIN PCB CHANGES.

   a. Access the EPROM functions by resetting the terminal or turning on AC power while depressing the "1" key on the keypad.

   b. When the screen "PLEASE ENTER THE SIX DIGIT EPROM ACCESS CODE" is displayed, enter the factory default access code "123456". Entering this code will display the "miniATM MAIN MENU."

   NOTE: If the incorrect access code is entered into the keypad, the word "CHALLENGE", followed by a six digit number is displayed in the lower right hand corner of the display. Disregard this screen at this time and enter the factory default access code "123456". If the code is entered correctly, the display will change to the miniATM MAIN MENU screen. If the miniATM MAIN MENU is not displayed, go to paragraph 3 of this addendum.

c. Select option number "4" - "CHANGE EPROM ACCESS CODE" from the "miniATM MAIN MENU." The display will prompt you to "PLEASE ENTER THE SIX DIGIT EPROM ACCESS CODE." Enter the factory default access code "123456."

d. The next screen will prompt you to "PLEASE ENTER THE NEW EPROM ACCESS CODE." Enter your new six digit access code at this time.

e. The next screen will prompt you to "PLEASE CONFIRM THE NEW EPROM ACCESS CODE". Enter the same six digit as entered in Step "d".

NOTE: If the new EPROM access code entered in Step 1e does not match the six digit code entered in Step 1d, the display will switch back to "PLEASE ENTER THE NEW EPROM ACCESS CODE" display. The new access code must be entered into the keypad identically two times to be accepted by the terminal.

f. If the new EPROM access code is entered identically in Steps 1d and 1e, the display will switch to the "miniATM MAIN MENU" display indicating the new EPROM access code has been accepted by the terminal.

2. CHANGING THE EXISTING EPROM ACCESS CODE.

a. Access the EPROM functions by resetting the terminal or turning on AC power while depressing the "1" key on the keypad.

b. When the screen "PLEASE ENTER THE SIX DIGIT EPROM ACCESS CODE" is displayed, enter the current EPROM access code. Entering the correct access code will display the "miniATM MAIN MENU."

NOTE: If the incorrect access code is entered into the keypad, the word "CHALLENGE", followed by a six digit number is displayed in the lower right hand corner of the display. Disregard this screen at this time and enter the factory default access code "123456". If the code is entered correctly, the display will change to the miniATM MAIN MENU screen. If the miniATM MAIN MENU is not displayed, go to paragraph 3 of this addendum.

c. Select option number "4" - "CHANGE EPROM ACCESS CODE" from the "miniATM MAIN MENU." The next display will prompt you to "PLEASE ENTER THE SIX DIGIT EPROM ACCESS CODE." Enter the current EPROM access code.

d. The next screen will prompt you to "PLEASE ENTER THE NEW EPROM ACCESS CODE." Enter your new six digit access code at this time.

e. The next screen will prompt you to "PLEASE CONFIRM THE NEW EPROM ACCESS CODE". Enter the same six digit as entered in Step "e".

NOTE: If the new EPROM access code entered in Step 2e does not match the six digit code entered in Step 2d, the display will switch back to "PLEASE ENTER THE NEW EPROM ACCESS CODE" display. The new access code must be entered into the keypad identically two times to be accepted by the terminal.

f. If the new EPROM access code is entered identically in Steps 2d and 2e, the display will switch to the "miniATM MAIN MENU" display indicating the new EPROM access code has been accepted by the terminal.

3. WHAT TO DO WHEN THE EPROM ACCESS CODE IS UNKNOWN.
If service personnel don't know the EPROM access code for a terminal, they will not be able to download new programs, perform certain diagnostic tests or change the EPROM access code for that terminal. Authorized service personnel performing service on a terminal under these circumstances can get access to these functions with the assistance of the Triton Systems Technical Service Group.

a. Access the EPROM functions by resetting the terminal or turning on AC power while depressing the "1" key on the keypad.

b. When the screen "PLEASE ENTER THE SIX DIGIT EPROM ACCESS CODE" is displayed, enter "000000." Entering an access code that does not match the correct code will present a "CHALLENGE" to the person enter the EPROM access code in the terminal. This is indicated by the word CHALLENGE followed by a six digit number being displayed in the lower right corner of the display. Proceed as follows to respond to this challenge:

1. Call the Triton Systems Technical Services Group (1-800-259-6672). Tell the support technician that you need to access a terminal but do not have the EPROM access code.

2. The Triton Systems Technical group will verify the identity of the service technician and ensure the technician is supposed to be servicing the terminal. This will be confirmed with the service technician's main office through a prearranged contact. After confirmation, support technician will furnish a six digit code to answer the challenge presented on the terminal display. Note: This code will work only one time. It will provide access to the "miniATM MAIN MENU" and set the terminal EPROM access code to the original factory default "123456."

c. Enter the six digit code provided by the Triton Systems Technical Support Technician to respond to the challenge into the terminal keypad. If entered correctly, the terminal will respond by switching the display to the "miniATM MAIN MENU."

d. Select option number "4" - "CHANGE EPROM ACCESS CODE" from the mini ATM MAIN MENU. The display will prompt you to "PLEASE ENTER THE SIX DIGIT EPROM ACCESS CODE." Enter "123456".

e. The next screen will prompt you to "PLEASE ENTER THE NEW EPROM ACCESS CODE." Enter the new six digit access code at this time.

f. The next screen will prompt you to "PLEASE CONFIRM THE NEW EPROM ACCESS CODE." Enter the same six digit as entered in Step "e".

NOTE: If the new EPROM access code entered in Step 3f does not match the six digit code entered in Step 3e, the display will switch back to "PLEASE ENTER THE NEW EPROM ACCESS CODE" display. The new access code must be entered into the keypad identically two times to be accepted by the terminal.

g. If the new EPROM access code is entered identically in Steps 3d and 3c, the display will switch to the "miniATM MAIN MENU" display indicating the new EPROM access code has been accepted by the terminal.

APPENDIX F
LOADING SOFTWARE

APPENDIX F - LOADING SOFTWARE

Loading Software into Triton Model 9600/9615 Series Cash Dispensers

Loading software into your miniATM Cash Dispenser is simple and quick. Please follow the instructions listed here, which guide you step-by-step through the process. If you should have a question or problem, toll-free help is available between the hours of 8:00AM to 6:00PM Central time, Monday through Friday, by calling (800) 259-6672 (in USA), or (228) 868-0840 (outside the USA).

Definitions and Explanations

Software Files Explained

Full file	Update file	
9500 Series	CD111111.00	CAT-1111.00
9515 Series	DD111111.00	DAT-1111.00
9600 Series	SD111111.00	SAT-1111.00
9615 Series	TD111111.00	TAT-1111.00

The files that are found on Triton disks are defined above and their purpose shown below.

- The file TRICOMM is reflected by file name **TRICOMM.EXE**.

- The CD/DD/SD/TD files are the full load software files. When these files are downloaded to the cash dispenser, all screen information (e.g. Welcome screen, Surcharge Amount, Fast Cash, etc.) and setup parameters will need to be re-entered into the before it will be ready for operation. Refer to your service manual for more information about how to configure the terminal parameters within the management functions.

- The CAT/DAT/SAT/TAT files are update files. They are not considered destructive: screen information and other setup parameters will not need to be reentered after these files are down loaded to the cash dispenser. These types of files can be to add new features or as a trouble shooting tool to correct a software problem or to test the software and/or cash dispenser.

APPENDIX F - LOADING SOFTWARE

What You Need to Get Started

At this stage of your download operation, the type of download needed (full-load or update) is to be determined and the corresponding type of file to be downloaded is selected. If a **PC-to-Terminal via Modem** type download is to be performed, follow the steps listed below, under the heading **Download via Modem**. If a **PC-to-Terminal** type of download directly from your PC to the terminal is to be accomplished, follow the steps listed below under the heading **Download via PC**.

The two types of files are downloaded using different procedures. If a SD file (full load file) is to be downloaded, follow the steps listed under the heading **Download SD file**. If a SAT file (update file) is to be downloaded, follow the steps listed under the heading **Download SAT file**.

Download via Modem

This operation uses a desktop or laptop PC with an internal or external modem to download programs into cash dispensers that are remote from your office. If an external modem is used, the appropriate cable must be used to connect the PC and modem together. For either type of modem (internal or external), a phone cable connects the modem to the wall outlet and from there the telephone network is used as the communications medium between the computer and the cash dispenser.

At this point of the download operation, your PC needs to be properly configured for the download. Proceed to the procedure listed under the heading **Loading the Software Using TRICOMM**.

Download via PC

A standard serial cable is used in this operation to connect the serial port on your computer to the terminal. Unlock the upper enclosure of the terminal cabinet and connect the DB-25 male end of the serial cable to the load port RS-232C labeled **Port A**, which is located on the CPU module in the card cage of the unit.

On the PC end of the cable the connector will either be a 9-pin female or a 25 pin female connector. The connector for the serial port will be male. Standard adapters are available for order (P.N. 9500-0007) to convert a 9-pin port on the PC to a 25-pin connector on the cable. This serial cable may also be obtained from Triton Systems (P.N. 9500-0018).

At this point of the download operation your PC needs to be properly configured for the download. Proceed to the procedure listed under the heading **Loading the Software Using TRICOMM**.

APPENDIX F - LOADING SOFTWARE

Starting the Software Download

Loading the Software Using TRICOMM

Insert the software diskette into the floppy drive (A:) on your computer. The software can be installed on your computers' hard drive (C:) by copying all of the files on the diskette to a new subdirectory on the hard drive, although this is not required. If the software is located on the hard drive, change to the directory where the software is located. For the purpose of this example, we will assume that the software is called SD123456.00 and that it is located on the (A:) drive of the computer. In each example the text that you are to enter on the PC's keyboard is in bold. When you see <ENTER>, press the 'ENTER' (Return) key on the computer keyboard.

Change to drive (A:) by entering **A: <enter>** (in DOS or through Windows), and execute the following command:

A:\TRICOMM <ENTER>

This will get you into the Tricomm program. Select the correct serial port (as applicable) by pressing the **F7** key, which toggles between COM1 and COM2. Press the appropriate (F)unction key for the type of download desired: F1 for a download via PC or F2 for a download via modem.

The message will prompt you for the name of a download file to be entered, (for example **A:SD123456.00)**. Enter the file name and press <ENTER>. If the portion of Tricomm selected does not use a modem, the program will start to run at this time. If the portion of Tricomm selected uses a modem, the next prompt will ask for a phone number. Enter the phone number that will call out to the remote unit. **NOTE:** if your telephone system uses an additional dial out number to get an outside line, that number must be placed at the start of this number string. If the modem dial out attempt is unsuccessful because of timing problems (the modem dials faster than the telephone system can handle), place from one to three "**,**" (comma characters) between the first and second number of the string. If this action is a long distance operation, place a "1" in the second position of this number string. Also, **DO NOT** use dashes "-" in the number string. Here is an example:

Example: 9,18002576673

At this point of the operation, your cash dispenser should be set up and made ready to accept the software download (see the procedure under the heading **Preparing the Cash Dispenser for Program/file Downloading**). The TRICOMM setup on the PC should resemble the following example:

A: Sd123456.78

9,18002576673

Press <ENTER> to start the download. The message "Correct y/n" (meaning yes/no) will be displayed. Select (y)es. The modem will start its dialing sequence. Once your PC and the Cash Dispenser make contact, the message "blocks sent =" will be displayed on the PC. The message "blocks received=" will be displayed on the miniATM. When the transfer is initiated, you will see a screen informing you that the existing program is being erased. This is normal. DO NOT turn the cash dispenser off while the unit is erasing.

After several seconds, the transfer will begin. You should not interrupt it unless instructed to do so by a Triton Technical Support Specialist. The transfer will take several minutes to complete. A message will appear that reads "% of file" while the transfer is taking place, indicating the percentage of the download that has been accomplished up to that point. When the download is finished, the terminal screen will indicate the transfer is complete.

After the software transfer has been completed, remove the load cable and reset or cycle power to the unit.

Preparing the Cash Dispenser for Program/file Downloading

Hold the "1" key on the cash dispenser keypad down while you reset the terminal, either by pressing the reset button on the Memory Module or by cycling power to the unit. The unit should now display a screen requesting an EPROM Access Code. Consult with your distributor for the access code to your unit. Once the access code was been entered, the unit will display the EPROM miniATM main menu.

APPENDIX G
WARRANTY AND REPAIR POLICIES/PROCEDURES

APPENDIX G - WARRANTY AND REPAIR POLICIES/PROCEDURES

Notices

All Rights Reserved

Trademark Acknowledgments

APPENDIX G - WARRANTY AND REPAIR POLICIES/PROCEDURES

TRITON SYSTEMS, Inc. **Warranty Statement**

Parts Only Limited Manufacturer's Warranty

Triton Systems, Inc. warrants the components of each Model 9600 Series Cash Dispenser, MAKO[tm] Cash Dispenser and SuperScrip[tm] Scrip Terminal, excluding software and related documentation, against any defect in materials and/or workmanship for a period of 13 months from the shipping date. The additional 30 days are intended to allow for the elapsed time between the shipment of the unit and its installation. If a component fails due to defects in materials and/or workmanship within the warranty period, Triton will furnish a new or refurbished component, at its discretion. Triton shall not be responsible for labor or other costs associated with installing the component; and the failed component shall be returned to Triton at the purchaser's expense. Triton shall not be responsible for misuse or abuse of a unit; and any attempts to remove or deface the serial number or date code on a unit or any component thereof, or any attempt to repair a unit or to repair or replace any component by anyone other than a service technician authorized by Triton shall void this warranty.

Limited Warranty covers normal use. Triton Systems does not warrant or cover damage:

- occurring during shipment of the equipment or components from or to Triton's facilities;
- caused by accident, impact with other objects, dropping, falls, spilled liquids, or immersion in liquids;
- caused by a disaster such as fire, flood, wind, earthquake, lightning, or other acts of God;
- caused by failure to provide a suitable installation environment for the equipment, including but not limited to, faulty wiring in the building in which the equipment is installed, installation in a facility with uncontrolled environmental conditions, failure to provide a dedicated electrical circuit on which the equipment operates, and/or lack of proper earth grounding for the equipment;
- caused by the use of the equipment for purposes other than those for which it was designed;
- resulting from improper maintenance;
- caused by any other abuse, misuse, mishandling, or misapplication.

Under no circumstances shall Triton Systems or its suppliers be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of revenue, loss of data, loss of use of the equipment or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

Disclaimer of Warranties

The warranty stated above is the only warranty applicable to this product. All other warranties, expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose or quality of service), are hereby disclaimed. No oral or written information, or advice given by Triton Systems, its agents or employees shall create a warranty or in any way increase the scope of this warranty.

Other Claims

Shipping Damage

All equipment is shipped FOB, Triton's facilities. The organization or individual who has purchased the equipment assumes responsibility for the equipment once it leaves Triton's facilities.

Should your equipment be damaged in the process of shipment or delivery to your place of destination, we recommend the following course of action:

- If possible, call the shipping company before the driver leaves your delivery site. Make note of the damage on the "receipt of delivery' paperwork. If this is not possible, call them as soon as possible to report the damage.
- Take photographs of the damaged packaging prior to opening the boxes. If this is not possible, make note of key points, such as whether the equipment is on a pallet, if the banding is intact, how the boxes are damaged, etc. Keep all of the packaging for inspection by the shipping company.
- If you unpack the equipment, take photographs of the damaged equipment. If this is not possible, make note of the damages.
- You must file a claim with the shipper for shipping damages immediately after reporting the damages.

Should you specify the carrier, we recommend that you explore with this chosen carrier the policies and procedures regarding shipping damage claims prior to selecting them as your preferred carrier.

If the equipment receives structural damage and is in an un-installable condition, Triton will work with you to arrange for a replacement unit to be shipped as soon as possible. The purchaser will be billed for the replacement unit. Triton's Repair Technicians will. repair the damaged unit after it is returned to our facilities. We will credit the purchaser's account for the full purchase price of the damaged unit, minus the cost of returning the unit to 'like new" condition. Under no circumstances does Triton authorize anyone to complete structural damage repairs in the field. Therefore, we will not ship primary structural parts, such as a cabinet head or main cabinet body for repair in the field.

Authorized Installation and Service Providers

Triton Systems utilizes several nation-wide and regional authorized third party maintenance providers. All miniATM™ Cash Dispensers must be installed and serviced by service technicians certified by Triton. This includes authorized third party service technicians and technicians who have been factory trained by Triton to service *mini***ATM**™ equipment. Installation or repairs attempted by unauthorized service technicians automatically voids the warranty on the product.

Please contact Triton Systems' Technical Services Department at (800) 259-6672 for a list of our third party service providers and/or to obtain information on the requirements and procedures for becoming a certified Triton service technician.

APPENDIX G - WARRANTY AND REPAIR POLICIES/PROCEDURES

Triton's Technical Services Department

The primary purpose of the Technical Services Department is to provide assistance to customers in the operation, trouble shooting, and repair of equipment manufactured by Triton. A toll-free phone number (1-800-259-6672) is provided for convenience. The Technical Services Department operates to serve our customers. The staff is trained to follow our policies and procedures to ensure fair and uniform treatment of all our customers.

Automated Voice Mail System. Our goal is to have a 'live' person answer 100% of all incoming calls (during regular support hours). On occasion, however, call loads may exceed the capacity of the staff. When this occurs, an automated voice mail system will answer the call, indicate to the caller that all Technical Support Specialists are busy assisting others, and ask the caller to leave detailed information about the nature of the call.

Should it become necessary to leave a voice mail message, the caller should state:

- their name
- the organization for which they work
- the serial number of the equipment they are calling about
- detailed description of the problem that they are experiencing
- phone number where they can be reached, including area code.

As Technical Support Specialists become available, they check for voice mail messages and return calls in the order in. which they were received. By providing the information requested in the voice mail, the technician can be prepared when your call is returned. Triton asks you to be patient if you must leave voice mail, and assures you that your call is important to us and that we will respond promptly.

Calls for Service or Repair. Calls for service or repair will be accepted from authorized service technicians only. End users must contact either the sales organization that placed the equipment or an authorized third party service organization to obtain service. The sections that follow describe the policies and procedures that relate to the repair and replacement of malfunctioning equipment.

Questions on Operation of Equipment. Technical support is available to owners of Triton equipment and to qualified service personnel. When calling for help with the configuration or operation of a Triton product, the caller must provide either positive identification as a service technician or the serial number of a Triton terminal. Technical support is provided during normal business hours for the life of the product.

When calling for help with an operational Problem, please have available information pertaining to the nature of the trouble. This includes the type of equipment, examples of what is or is not happening, and the name of the processor that supports your terminal.

All questions pertaining to the settlement of accounts, transaction inquiries, and fund status must be directed to the processor. Triton does not have access to the information needed to answer questions relating to specific transactions.

Equipment Failures Within the Warranty Period

When problems are encountered with your equipment and it is still under the original manufacturer's warranty, please do the following:

1. With the serial number of the equipment ready, have an authorized service technician call Technical Services at 1-800-259-6672 (toll free inside the United States).

2. The Technical Support Specialist will trouble-shoot the problem with the service technician over the phone. In many cases, the problem can be resolved without the need for replacement components.

3. Should our technician determine that replacement components are required, we will send those components to either the service technician or the location of the equipment. The replacement component is intended to restore the service organization's spare component supply to its original level. Triton will invoice the service organization for the cost of the replacement components, plus all shipping and handling charges as soon as the components are shipped.

4. Unless otherwise instructed, Triton will ship the component via ground delivery (by the courier of our choice). Indicate if special shipping is required (next day delivery, second day delivery, Saturday delivery, guaranteed AM delivery, or special carrier).

5. If the required components are in stock, Triton will ship them the next business day after the service call is received, and we will make our best effort to ship the components the same day of the service call. Out of stock components will be shipped as soon as they become available.

6. The Technical Support Specialist will issue an **RA #** (Return Authorization Number) for the affected components.

7. Upon receipt of the replacement components, the problem components should be carefully packaged in the same box that the replacements were shipped in, or suitable protective packaging. **Write the RA # on the outside of the box in large letters; also tag each returned component with its RA #**. Ship the components back to Triton (Technical Services; Triton Systems, Inc., 21405 B Street, Long Beach, MS 39560 USA) immediately, prepaid and insured.

8. The problem components must be received by Triton within 15 days along with the RA.

    - If the components are determined to be **covered under warranty**, full credit will be issued for the cost of the replacement components, including ground shipping and handling charges.

    - If the components are determined to have damage resulting from circumstances **not covered by warranty**, there are several options available for resolution. Please refer to the next section, "Equipment Failures Beyond the Warranty Period" for details on repairs, non-repairable components, and Triton's Core Component Program

    - If there is **no defect found (NDF)** on the returned component, the service organization will receive full credit for the returned part and will be billed a nominal fee for re-stocking of the returned component. No credit will be issued for shipping and handling.

9. Charges above and beyond ground shipping and handling by the carrier of our choice are the full responsibility of the service organization, regardless of any credit issued.

Any defective components that are replaced during the warranty period and which are subsequently returned to Triton will become property of Triton and will not be returned to the service organization.

Covered replacement components are warranted for the balance of the original unit warranty.

While Triton cannot be responsible for the delivery of the components once they are released to the shipping agent, we will do everything we can to assist you in resolving shipping problems. Should it become necessary to track a components shipment, simply contact Technical Support with your RA # and we will provide you the information needed to trace an undelivered shipment.

Note: All replaced components must be returned to Triton within 45 days to be eligible for warranty credit.

If a distributor of Triton products has not established a credit account, they may only order replacement parts by either prepayment or by having components shipped C.O.D.

Equipment Failures Beyond the Warranty Period

After the warranty period has expired, the Technical Services Department will provide assistance in troubleshooting to authorized service technicians. Defective components may be repaired by the factory or replacement components may be purchased by qualified service organizations.

If a component is to be repaired, please do the following.

1. Call the Technical Services Department at 1-800-259-6672 (toll free within the United States).

2. Discuss the problem with the Technical Support Specialist, and if it is determined that the component may be repairable, an **RA #** will be issued.

3. Pack the component securely and ship it to Triton (Technical Services; Triton Systems, Inc., 21405 B Street, Long Beach, MS 39560), prepaid and insured. *Make sure the RA # is clearly written on the outside of the box.*

4. If possible, Triton will repair the component; the service organization will be billed for time (one-hour minimum) and materials incurred during the repair. Shipping and handling charges will be added to the bill. The customer may specify the carrier for return of the component.

5. The service organization will be notified if the component is not repairable. If the service organization requests return of a non-repairable part, it will be shipped via ground courier (unless specified otherwise) and the service organization will be billed for return shipping and handling charges.

6. If there is no defect found (NDF) on the returned component, the service organization will be billed a nominal fee for analysis of the component. It will be returned to the service organization via ground courier (unless specified otherwise) and the service organization will be billed for return shipping and handling charges.

APPENDIX G - WARRANTY AND REPAIR POLICIES/PROCEDURES

If a component needs to be replaced, please do the following:

In addition to new components, refurbished components are available for most parts replacements. Unless otherwise requested, all eligible replacement components will come from the Core Components Program (refer to list below for components that are in this program). Components that are not eligible for the Core Program will be sold as new only. Core Components are components that have been refurbished, tested, and brought up to 'new' specifications, but are priced less than new components. All Core Components, as well as new components, carry a 90-day warranty.

Please contact Triton Systems' Technical Services Department for a complete list of Core Components for all models of miniATM™ Cash Dispensers.

Unless otherwise notified, if the requested component is eligible but not available from the Core Program stock, a new component will be sent. The service organization will be billed for the cost of a new component in this event.

If the component being replaced is covered by the Core Components Program, it is eligible to be returned for credit. To obtain credit for a core component, please do the following:

1. Call the Technical Services Department at 1-800-259-6672 (toll free within the United States).

2. Discuss the problem with the Technical Support Specialist, and if it is determined that the component is eligible for the Core Program and may be repairable, an **RA #** will be issued.

3. Pack the component securely and ship it to Triton (Technical Services; Triton Systems, Inc., 21405 B Street, Long Beach, MS 39560), prepaid and insured. *Make sure the RA # is clearly written on the outside of the box*. Components must be returned to Triton immediately.

4. If the component is received within 15 days, Triton will evaluate the returned component, and if repairable, issue a credit to the service organization for the amount listed in the Core Components Credit Schedule.

5. If the component is not repairable, a notice will be sent to the service organization indicating that no credit will be issued for the component. Non-credit components will not be returned to the service organization.

Components returned for credit under the Core Program must be accompanied by an order for a replacement component,

If the required components are in stock, Triton will ship them the next business day after the service call is received, and we will make our best effort to ship the components the same day of the service call. Out of stock components will be shipped as soon as they become available. The service organization may request the method of shipment, and it is responsible for all shipping and handling charges.

While Triton cannot be responsible for the delivery of the components once they are released to the shipping agent, we will do everything we can to assist you in resolving shipping problems. Should it become necessary to track a components shipment, simply contact Technical Support with your **RA #** and we will provide you the information needed to trace an undelivered shipment.

APPENDIX G - WARRANTY AND REPAIR POLICIES/PROCEDURES

CONTACT INFORMATION

TRITON SYSTEMS, INC.
21405 B STREET
LONG BEACH, MS 39560

Sales:

(800) 367-7191
(228) 868-1317
(228) 868-0437 FAX

Service:

(800) 259-6672

(228) 868-0859 FAX

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