Triton

A DOVER INDUSTRIES COMPANY

CDPD

INSTALLATION AND SETUP GUIDE

Version 3

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CORPORATE HEADQUARTERS:

522 E. Railroad Street
Long Beach, MS 39560
PHONE: (228) 868-1317
FAX: (228) 868-0437

RMA (RETURN MATERIAL AUTHORIZATION) RETURN ADDRESS:

21405 B Street
Long Beach, MS 39560

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SECTION 1
INTRODUCTION

SECTION 1 - INTRODUCTION

WHAT IS CDPD?

CDPD, or Cellular Digital Packet Data, is a wireless communications system that "piggy-backs" on the cellular telephone network to allow the transmission of small "packets" of digital data quickly and inexpensively.

The CDPD option makes your Triton Systems Cash Dispenser a true *wireless ATM*. The Cash Dispenser functions that are normally performed via the dial-up telephone system, such as customer transactions and remote monitoring, can now be performed across the CDPD network. The location of the Cash Dispenser is no longer limited by accessibility to a telephone jack. And as added advantages, the wireless connection offers a faster and more secure option than the traditional dial-up solution.

WHAT'S IN THIS GUIDE

This Installation and Setup Guide describes the procedures to install and operate the CDPD option for the Triton Systems Model 9600, Model 9615 and 9640-series Cash Dispensers. These procedures are covered in the following Sections:

SECTION 2 - INSTALLATION describes step-by-step how to install and setup the CDPD hardware. If your hardware was installed at the factory, you may skip the procedure in this Section titled: ***Installing the CDPD Wireless Modem Card and Antenna***, but be sure to follow the procedure: ***CDPD Setup and Operational Check***.

SECTION 3 - OPERATION explains how to setup the Cash Dispenser Management Functions to use the CDPD hardware.

Where applicable, areas within the Cash Dispenser operation manual that have changed to support the CDPD option are noted and the changes described.

SECTION 2
INSTALLATION

SECTION 2 - INSTALLATION AND SETUP

INTRODUCTION

This section describes how to install the CDPD modem and associated hardware.

PARTS AND TOOLS REQUIRED

TOOLS REQUIRED		
#1 Phillips Screwdriver (small)		
Wire Cutters		
PARTS REQUIRED		
PART NUMBER	**DESCRIPTION**	**QUANTITY**
9600-2070	CDPD Wireless Modem Card	1
1270-0000	CDPD Antenna, Adhesive-Backed (with alcohol pad)	1
FTH-5ART	Tie Wrap Posts	3
07006-00028	RF Certification label	1
WIT-18-R	Tie Wraps	3
CDPD-SPECIFIC ATM OPERATING SOFTWARE		

INSTALLING THE CDPD WIRELESS MODEM CARD AND ANTENNA

Follow these steps to install the CDPD Wireless Modem Card and associated Antenna in your Cash Dispenser:

1. Open the control panel hood. Turn the power switch on the card cage to the OFF (0) position.

2. Remove the two Phillip's screws that attach the mini sign housing to the hood. For Hightopper signs, remove the two screws in the front of the housing as well as the four screws from the back of the Hightopper.

3. Remove the mini sign housing or the front of the Hightopper Sign from the ATM.

4. Remove the spare card panel from either the 4th or 5th slot position (whichever is unused) from the top of the card cage.

NOTE: IF A QUADPORT MODULE OR A MEMORY EXPANSION MODULE IS INSTALLED IN ONE OF THE SLOTS, USE THE OTHER SLOT TO INSTALL THE CDPD MODULE.

SECTION 2 - INSTALLATION AND SETUP

IMPORTANT: THE CDPD WIRELESS MODEM MODULE IS NOT COMPATIBLE WITH THE REV. A QUAD PORT MODULE! THE QUAD PORT MODULE MUST BE REV. B OR LATER TO BE COMPATIBLE WITH THE CDPD MODULE.

5. Remove the CDPD module from the anti-static bag and plug the module into either slot 4 or 5 of the card cage. Make sure the module is seated all of the way into the card cage and press the latches in on each side of the module.

6. Open the alcohol pad and thoroughly wipe the area directly to the left of the fluorescent bulb. (See Figure 1 for the proper antenna placement).

7. Remove the protective film from the back of the antenna and position the antenna on the back housing as shown in Figure 1 (Antenna may differ slightly in appearance from that shown). Press firmly down on each end of the antenna to securely attach it to the back housing.

NOTE: THE ANTENNA MUST FACE UP AS SHOWN IN FIGURE 1 FOR PROPER OPERATION.

8. Screw the end of the antenna cable into the mating connector located on the front of the CDPD module.

9. Apply a tie-wrap post to the card cage at each position shown. Press down on each tie-wrap post for 5 seconds to properly activate the adhesive.

10. Tie-wrap the antenna to the tie-wrap posts and clip off any excess tie-wrap tails.

11. Affix the RF Certification Label (see Figure 2) to the side wall of the hood enclosure (see Figure 1 for the recommended location of the label).

12. Attach the sign back onto the unit. Use the reverse of steps (2) and (3) above.

CAUTION: ENSURE THE CDPD ANTENNA IS CONNECTED BEFORE APPLYING POWER TO THE CASH DISPENSER!

13. Turn the power switch on the card cage to the ON (I) position. Close the control panel hood.

Section 2 - Installation and Setup

Figure 1. Complete Installation of the CDPD Module.

This product contains a device which complies with FCC rules.

FCC ID: NBZNRM-6812

CANADA: 129182306A

07006-00028

Figure 2. RF Certification Label.

SECTION 2 - INSTALLATION AND SETUP

CDPD SETUP AND OPERATIONAL CHECK

IMPORTANT!

IT IS ADVISABLE TO VERIFY THE OPERATION OF THE CDPD FUNCTION BEFORE MOUNTING THE TERMINAL IN A FIXED LOCATION. IN SOME INSTANCES IT MAY BE NECESSARY TO MOVE THE TERMINAL TO A DIFFERENT LOCATION FOR THE BEST SIGNAL RECEPTION. IF IT IS NOT PRACTICAL TO MOVE THE TERMINAL (AND SIGNAL RECEPTION IS UNACCEPTABLE), IT WILL BE NECESSARY TO USE AN EXTERNAL ANTENNA ARRANGEMENT. AN OPTIONAL 20 FT. EXTENSION CABLE AND ADAPTER KIT IS AVAILABLE TO MEET THIS REQUIREMENT.

Follow these steps to setup and verify the operation of the CDPD function:

1. If not already accomplished, install CDPD terminal software.

2. If not already accomplished, coordinate with your CDPD Service provider to obtain the necessary operating parameters for your CDPD setup (Destination IP Address, Destination IP Address Port Number, Modem IP Address). Be sure to obtain the Side Preference Channel (either A or B) appropriate for your area.

   Note: If you will be using a CDPD-enabled version of Triton Connect (version 3.2 or higher) to manage the terminal, be sure to obtain the appropriate Triton Connect IP Address information from the operator of the Triton Connect Host Computer.

3. Access the Side Preference feature of the Management Functions (see the description of the Side Preference feature in Section 3, Management Functions). If necessary, change the default Side Preference to match the Channel obtained from your CDPD Service provider.

4. The CDPD modem will automatically scan any available RF signals within the channel (A or B) specified in Step 3 above. If no signal is found on the preferred channel, the other channel will be scanned. Once a signal is found, the strength of the signal can be monitored, as described in the Step 5.

5. Access the Signal Strength feature of the Management Functions (see the description of the Signal Strength feature in Section 3, Management Functions). View the signal strength indication. A signal in the -70 to -90 dBm range (or better) is a positive indication, strongly suggesting the presence of an acceptable CDPD signal in your vicinity.

SECTION 2 - INSTALLATION AND SETUP

6. If a good signal is indicated, proceed with Step 8. If the signal indication is very weak or missing (-90 to -115), it is recommended that you make efforts to obtain a better signal, as described in Step 7.

7. Several variables can affect the RF signal strength and therefore the reliability of transactions. First, be sure CDPD service is in fact available in your area. Assuming the service is available, the location of the antenna may be causing poor reception.

   If the terminal is located in a metal building (or a structure with thick walls or other obstructions), the CDPD signal can be highly attenuated or blocked. Locating the ATM away from obvious obstructions (perhaps near a window) may be enough to solve the reception problem. If the terminal cannot be moved, the antenna can be removed from the terminal cabinet and placed in a location with better reception. An optional 20-ft. extension cable, Triton Part Number 09600-00067, is available to assist in relocating the antenna. Use the Signal Strength display in the Management Functions to identify an antenna location that provides an acceptable signal strength, as described in Step 5.

   It may happen that acceptable reception may only be achieved by placing the antenna outdoors. If this is the case, an antenna specifically designed for outdoor use may be required.

   THE ANTENNA THAT COMES WITH THE TERMINAL IS DESIGNED FOR INDOOR USE ONLY! IF IT BECOMES NECESSARY TO PLACE THE ANTENNA OUTDOORS TO ACHIEVE ACCEPTABLE SIGNAL RECEPTION, OBTAIN A THIRD-PARTY OUTDOOR ANTENNA FOR THIS PURPOSE.

   There are many sources for cellular antennas designed for outdoor use: contact one of the many distributors of RF/Cellular equipment to discuss the available options. One such option is a “high-gain” feature that provides additional “boost” to received signals.

   If the antenna uses a TNC-type connector, obtain CDPD Antenna Adapter (SMA-to-TNC), Triton Part Number 01060-00361, to connect the antenna to the extension cable.

   If the above options have been tried and you are still having problems receiving an acceptable signal, the use of an add-on signal amplifier may be indicated. Triton Systems offers such an option in the form of a CDPD Booster Kit, Part Number 06100-00048. See Appendix A for Booster Kit installation instructions

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SECTION 2 - INSTALLATION AND SETUP

8. Once a good signal is indicated, proceed with the remainder of the terminal setup procedure, including configuration of all CDPD operating parameters.

9. Once the CDPD operating parameters have been entered, the CDPD modem will have the information it needs to "register" with the cellular network and establish a continuous communications link with the service.

10. The Connection Status feature can be used as a way to verify that the CDPD modem has established a communications session. See the description of the Connection Status feature in Section 3, Management Functions. ENABLE this feature to continuously check the status of the connection; if the connection is lost, a warning message will be displayed. If the connection is good, the Customer Welcome screen will be displayed and transactions can take place.

THE CONNECTION STATUS FEATURE IS *DISABLED* BY DEFAULT. THE FEATURE SHOULD ONLY BE ENABLED AFTER ALL CDPD OPERATING PARAMETERS HAVE BEEN ENTERED. FAILURE TO DO THIS CAN RESULT IN THE PREMATURE DISPLAY OF THE CONNECTION STATUS WARNING MESSAGE!

You can also observe the progress of the CDPD Module as it attempts to establish a communications session by watching the RF-ACT indicator on the front panel of the modem. (See the next section, CDPD Module Front-Panel Features, for more information on this process).

If the Connection Status warning message is displayed and the CDPD modem refuses to register with the service, even though the signal level indication appears acceptable, verify the IP Address parameters with your CDPD Service Provider. If these parameters have been entered correctly, and you still cannot establish a CDPD connection, contact Triton Systems Technical Support for assistance.

SECTION 2 - INSTALLATION AND SETUP

CDPD MODULE FRONT PANEL FEATURES

The information below summarizes the functions of CDPD Module front panel connectors and indicators. Refer to Figure 3, which shows the various front panel features of the CDPD Modem Module.

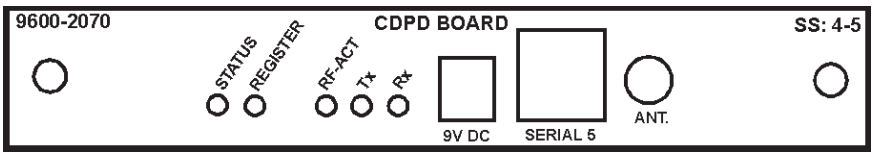


Figure 3. CDPD Module Front Panel Features.

Indicators

1.) STATUS. When this indicator is lit the CDPD modem control electronics have successfully contacted and established a continuous communications link with a CDPD network host.

2.) REGISTER. When this indicator is blinking slowly, the CDPD modem module is searching for a CDPD network host. When the indicator is blinking quickly, the CDPD modem module has found a network host and is attempting to register with that host. When the indicator is on and not blinking (steady), the module has registered with a network host service.

3.) RF-ACT. (RF Activity). When this indicator is lit, the CDPD modem antenna is either transmitting or receiving Radio-Frequency (RF) signals.

4.) TX. When this indicator is lit, data is being sent to the RF electronics of the CDPD module for subsequent conversion to RF signals for transmission.

5.) RX. When this indicator is lit, data is being extracted from the signal that is being received and processed by the CDPD antenna and RF electronics.

Connectors

1.) 9V DC. This jack provides 9V DC power to external devices, such as the optional LED Sign.

2.) SERIAL 5. This jack provides a serial communications interface for external devices, such as the optional LED Sign.

3.) ANT. This jack is used to connect the CDPD antenna to the CDPD modem module.

SECTION 3

SETUP AND OPERATION

SECTION 3 - SETUP AND OPERATION

INTRODUCTION

This section will discuss the CDPD-specific Management Functions. The CDPD hardware should be installed according to the directions provided in the Section 2, Installation.

For instructions on accessing the Management Functions area of the Cash Dispenser, refer to Section 5, Management Functions, in the applicable Cash Dispenser Operations Manual.

MANAGEMENT FUNCTION CHARTS

The Management Function Charts on the next several pages show the CDPD-related functions. These charts replace the corresponding charts in the Operations Manuals for the 9600-Series, 9615-Series and 9640-Series Cash Dispensers. Note that the IP ADDRESSES functions replace the TELEPHONE functions normally shown on each chart. Also, the TRITON CONNECT features have been modified to reflect CDPD-specific, rather than telephone-based communications

IP ADDRESSES

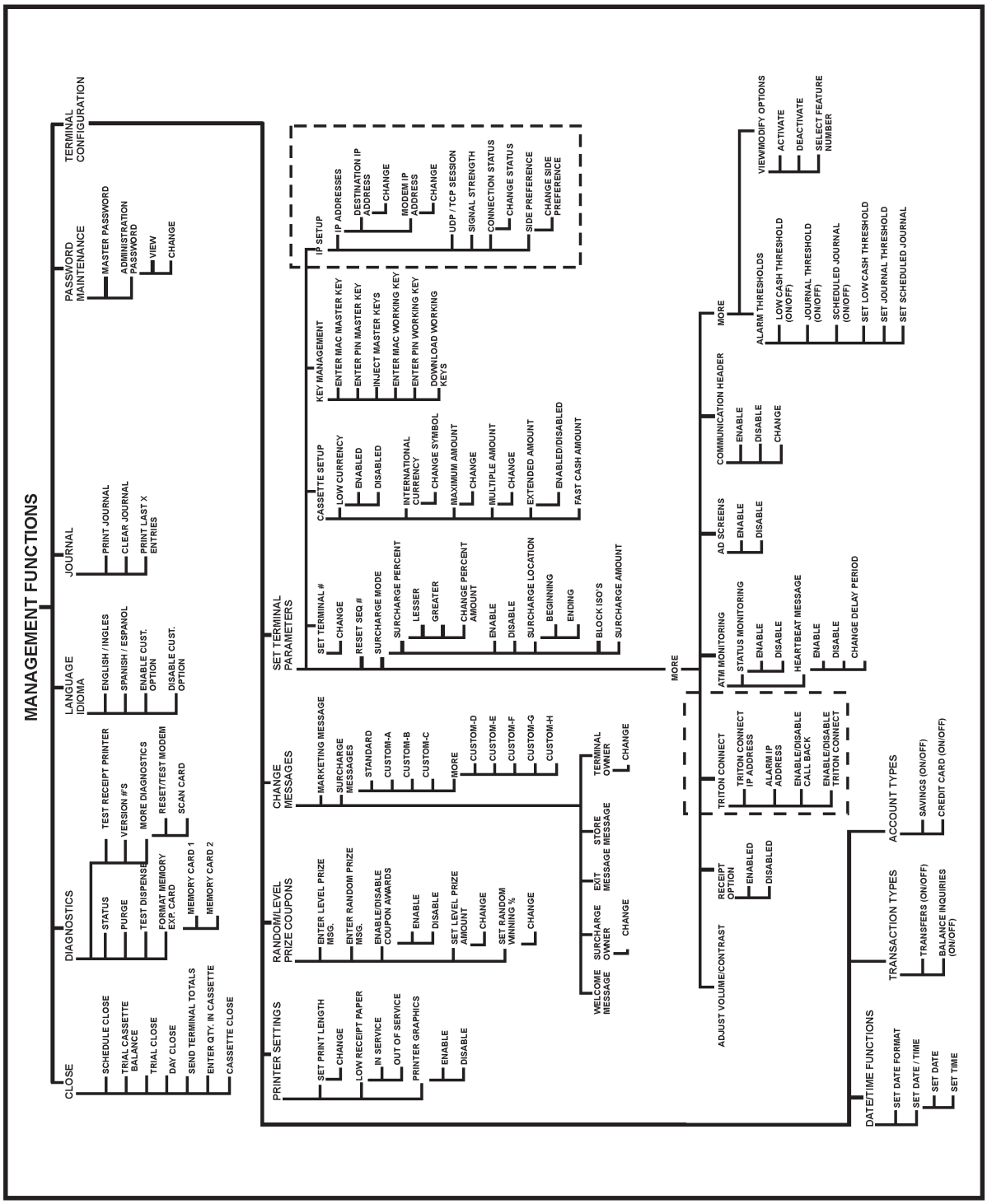
The CDPD-equipped Cash Dispenser communicates using *Internet Protocol* (IP), allowing it to send and receive information in the form of small packets of digital data. In order to configure the Cash Dispenser to correctly access the CDPD network using this protocol, two IP addresses must be entered into the appropriate Cash Dispenser setup functions. The two addresses are the *Destination IP Address* and the *Modem IP Address*.

Both addresses are attached to the data packet that is being sent; the destination IP address allows the data packet to be routed through the CDPD network, ultimately to be received and processed by the destination host. The Modem IP address identifies the source of the data packet, and is used by the destination system to return acknowledgements, transaction approvals, or other data to the Cash Dispenser.

If Triton Connect ATM monitoring software is being used, the applicable IP addresses for the Triton Connect Host computer and Alarm Monitoring feature must also be entered.

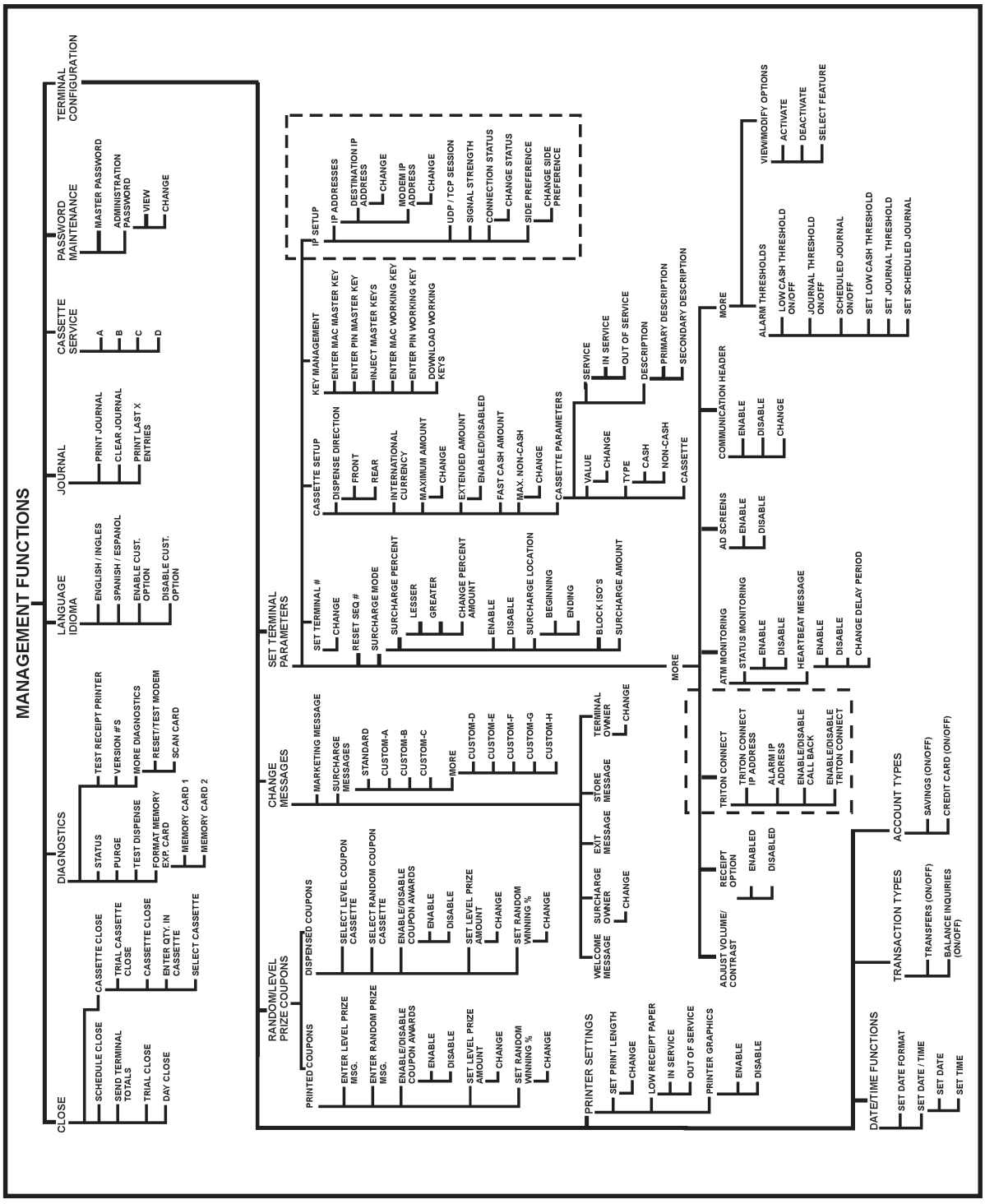
The descriptions on the following pages will cover how to access the appropriate functions and initially enter the IP addresses and other CDPD operating parameters.

SECTION 3 - SETUP AND OPERATION



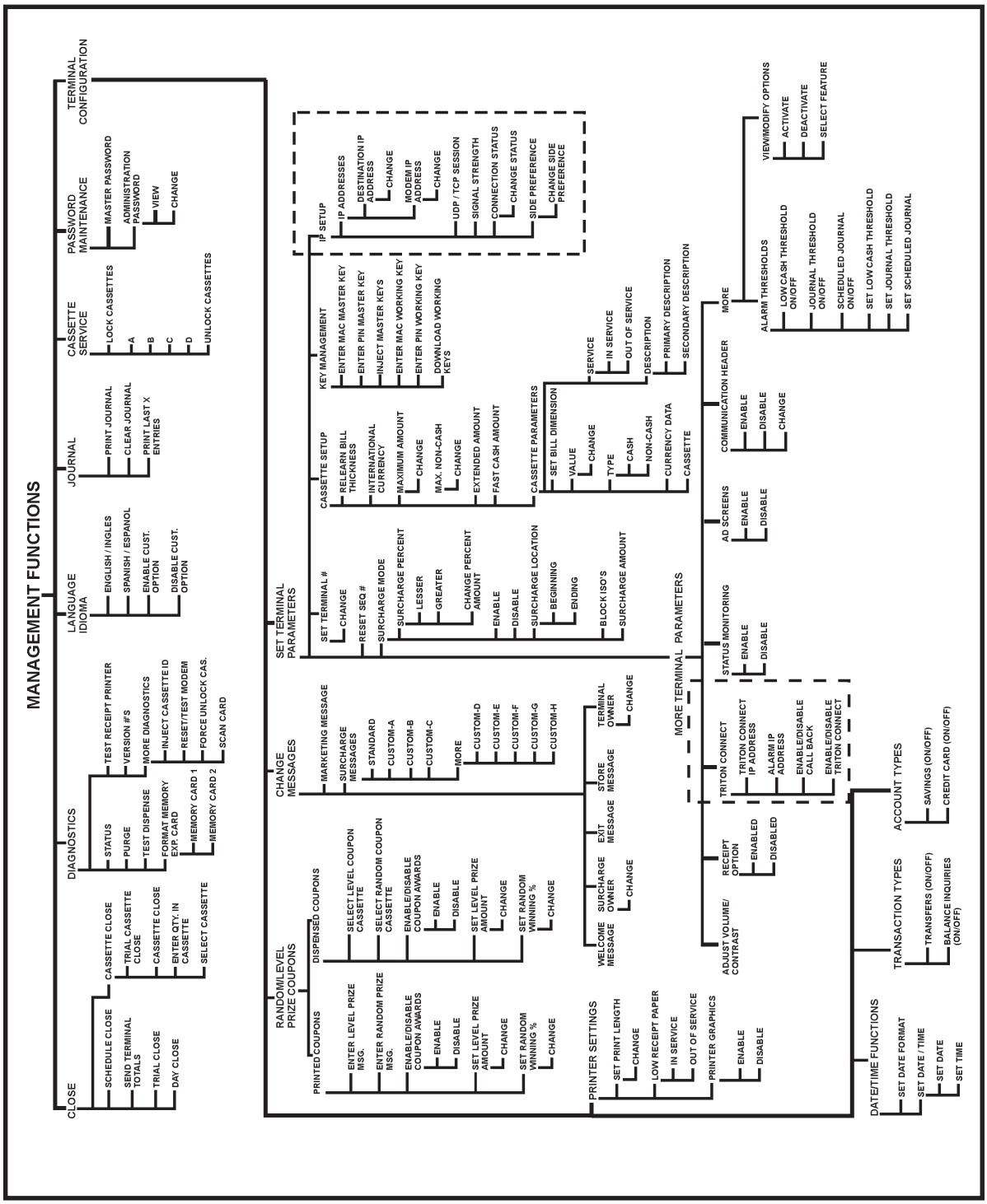
CDPD Option - 9600-Series Cash Dispensers

SECTION 3 - SETUP AND OPERATION



CDPD Option - 9615-Series Cash Dispensers

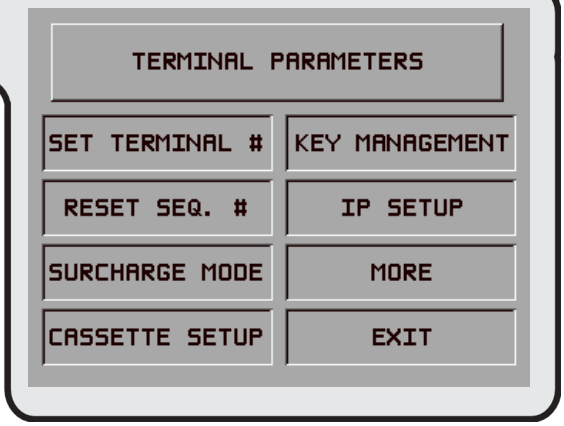
SECTION 3 - SETUP AND OPERATION



CDPD Option - 9640-Series Cash Dispensers

SECTION 3 - SETUP AND OPERATION

FUNCTION: SET 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:

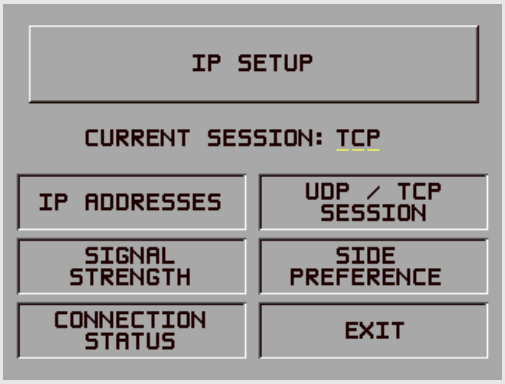
1.) SET TERMINAL #
2.) RESET SEQ #
3.) SURCHARGE MODE
4.) CASSETTE SETUP
5.) KEY MANAGEMENT
6.) IP SETUP
7.) MORE

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 3 - SETUP AND OPERATION

FUNCTION: IP SETUP



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

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

DESCRIPTION:

Selecting IP SETUP from the TERMINAL PARAMETERS menu allows the following operating parameters to be viewed or changed:

1.) IP ADDRESSES. This function enables you to initially enter or modify the IP addresses for the Modem and Destination Addresses.

2.) SIGNAL STRENGTH. This function provides an indication of the strength of the RD signal being received by the CDPD antenna.

3.) CONNECTION STATUS. This function enables the terminal to report the status of the RF connection.

4.) UDP/TCP SESSION. This function enables you to select the type of communications protocol that will be used for CDPD communications. There are two common data transfer protocols used in TCP/IP networks (of which the CDPD network is an example). These are TCP (Transport Control Protocol) and UDP (User Datagram Protocol). To toggle the CDPD communications protocol between the two types, press the key next to this label. To determine which protocol to use, contact your processor.

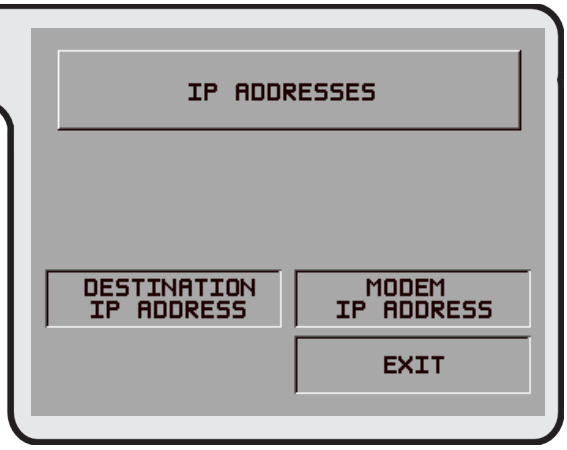
5.) SIDE PREFERENCE. This function enables the operator to select the frequency band the CDPD function will give preference to when scanning for an acceptable channel.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 3 - SETUP AND OPERATION

FUNCTION: IP ADDRESSES



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

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

DESCRIPTION:

This menu allows the following CDPD communications parameters to be viewed or changed:

1.) DESTINATION IP ADDRESS
2.) MODEM IP ADDRESS

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 3 - SETUP AND OPERATION

FUNCTION: DESTINATION IP ADDRESS

FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select IP SETUP.
4.) Select IP ADDRESSES.
5.) Choose the DESTINATION IP ADDRESS option.

DESCRIPTION:

The DESTINATION IP ADDRESS is provided by your host processor or service provider. The first part of the address consists of a sequence of four groups of numbers. Each group can be up to three digits long, and each group is separated by a period (dot character), as in this example: **123.321.01.99**. The second part of the address is a five-digit Port Number, which is separated from the first part by a slash ("/") character, as in this example: **123.321.01.99/23353**.

Follow these steps to initially enter or change the DESTINATION IP ADDRESS:

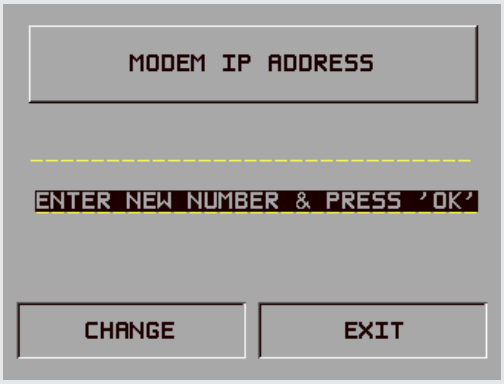
1.) Select CHANGE to blank the current entry, if necessary.
2.) Enter the first group of numbers in the IP Address using the main keypad keys.
3.) Enter a 'dot' character by pressing the <BLUE> key, then the <0> key TWICE to select the period', then the <RIGHT ARROW> key to lock it in.
4.) Repeat Steps 2 and 3 for the second and third groups of numbers in the IP Address.
5. Enter the fourth group of numbers in the IP Address.
6. Enter the slash ("/") character by pressing the <BLUE> key then pressing the <5> key until the slash character appears. Press the <RIGHT ARROW> key to lock in the character.
7.) Enter the five-digit Port Number. Select EXIT to save the IP Address entry, or <CANCEL> to discard the changes.

ERROR CONDITIONS:

If no DESTINATION IP ADDRESS appears on-screen when this function is selected, a problem exists with the communications between the CDPD module and the terminal control electronics. Ensure the CDPD module and antenna cable are installed correctly (see Section 2, Installation). If the problem persists, contact your service provider.

SECTION 3 - SETUP AND OPERATION

FUNCTION: MODEM IP ADDRESS



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select IP SETUP.
4.) Select IP ADDRESSES.
5.) Choose the MODEM IP ADDRESS option.

DESCRIPTION:

The MODEM IP ADDRESS is provided by your host processor organization or service provider. The address consists of a sequence of four groups of numbers in typical IP Address format. Each number group can be up to three digits long, and each group is separated by a period (dot character), as in this example: **123.321.01.99**.

NOTE: The IP Address will be followed by a default character string (typically "/1"), which will be displayed in the Port Number part of the address. It is automatically inserted by the software, as in this example: **123.321.01.99/1**.

Follow these steps to initially enter or change the MODEM IP ADDRESS:

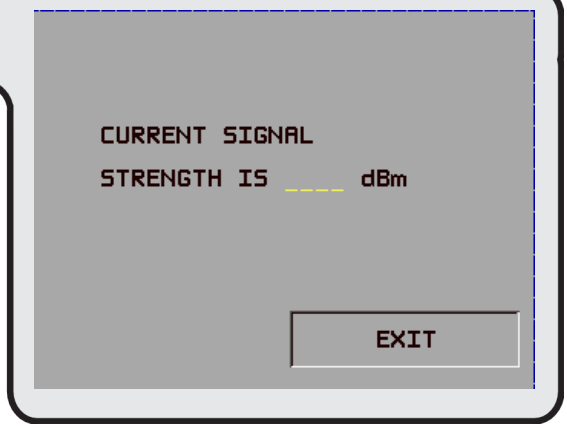
1.) Select CHANGE to blank the current entry, if necessary.
2.) Enter the first group of numbers in the IP Address using the main keypad keys.
3.) Enter a 'dot' character by pressing the <BLUE> key, then the <0> key TWICE to select the period', then the <RIGHT ARROW> key to lock it in.
4.) Repeat Steps 2 and 3 for the second and third groups of numbers in the IP Address.
5. Enter the fourth group of numbers in the IP Address, then the <RIGHT ARROW> key to lock it in. Select EXIT to save the IP Address entry, or press the <CANCEL> key to discard the changes.

ERROR CONDITIONS:

If no MODEM IP ADDRESS appears on-screen when this function is selected, a problem exists with the communications between the CDPD module and the terminal control electronics. Ensure the CDPD module and antenna cable are installed correctly (see Section 2, Installation). If the problem persists, contact your service provider.

SECTION 3 - SETUP AND OPERATION

FUNCTION: SIGNAL STRENGTH



FACTORY DEFAULT: N/A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select IP SETUP.
4.) Select the SIGNAL STRENGTH option.

DESCRIPTION:

This function enables you to view an indication of the strength of the signal being received by the CDPD antenna. The function uses a measurement range of -115 to -55 dBm.

Because RF signals used in data communications are generally of very low power levels, they are typically measured in values less than a "0" reference level (in standard RF data communications a "0" dBm signal would be considered extremely powerful); such signals are considered to be "negative" with respect to the "0" reference level. Some examples would be values such as -55 dBm, -80 dBm, etc. The term "dBm" is simply a unit of measure for RF signal power.

Using this measurement system, larger negative values correspond to weaker signal levels. Thus, a signal of -90 dBm is considerably weaker than a signal of -70 dBm.

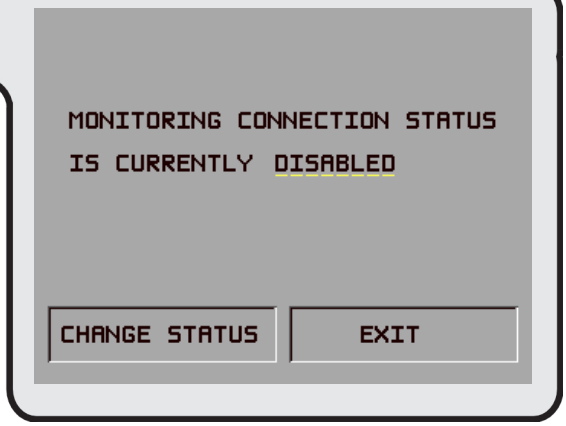
For good reception, signals in the -70 to -90 dBm range are desirable, although in some instances even weaker signals can provide acceptable performance. Signal strength in your area may vary over a considerable range, depending upon distance from CDPD/Cellular relay towers, presence of obstructions, etc. In some areas, use of the optional antenna extension cable, third-party RF antennas, or even external signal boosters may be needed to obtain an acceptable signal.

ERROR CONDITIONS:

If the signal level indication is -115, the RF signal is either extremely low or there is no signal. If there is no power level value displayed, there may be a communications problem between the CDPD modem card and the primary terminal control electronics. In such cases, turn terminal power off then remove and re-install the modem card. If the problem persists, contact your terminal service provider.

SECTION 3 - SETUP AND OPERATION

FUNCTION: CONNECTION STATUS



FACTORY DEFAULT: DISABLED

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select IP SETUP.
4.) Select the CONNECTION STATUS option.

DESCRIPTION:

If the status monitoring feature is ENABLED, the terminal will go out of service if the CDPD RF connection is lost. In such instances, the following message screen will be displayed:

The terminal will continuously monitor the status of the connection, and will automatically return to normal operation once the connection is restored. If you wish to access the Management Functions while the above screen is being displayed, press the BLUE and <1> keys together (repeatedly, if necessary) to return to the Top Menu. Once at the Top Menu, press the MANAGEMENT FUNCTIONS key to access the functions.

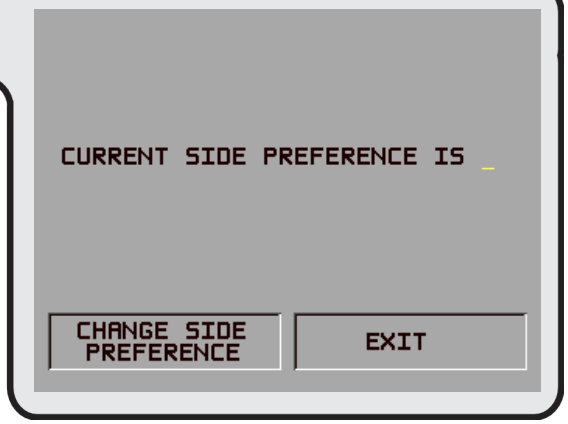
If the status monitoring feature is DISABLED and the RF connection is lost the terminal will be unable to process transactions, but will remain in service. Once the connection is restored, the terminal will automatically return to normal operation.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 3 - SETUP AND OPERATION

FUNCTION: SIDE PREFERENCE



FACTORY DEFAULT: A

ACCESS INSTRUCTIONS:

1.) Select TERMINAL CONFIGURATION from the MANAGEMENT FUNCTIONS menu.
2.) Select SET TERMINAL PARAMETERS.
3.) Select IP SETUP.
4.) Select the SIDE PREFERENCE option.

DESCRIPTION:

This function enables the operator to select the frequency band the CDPD function will give preference to when scanning for an acceptable channel.

There are two RF channels designated for use by CDPD systems: A and B. Some geographical areas may offer CDPD service primarily on one channel, such as B. In these areas it would be advisable to give side preference to the B channel, which will ensure the terminal initially scans the RF signals associated with the B channel to establish a communications connection.

In areas where CDPD service is offered primarily on the A channel, change the side preference to A to cause the terminal to scan for A channel signals to establish a communications connection.

ERROR CONDITIONS:

If there is no side preference choice indicated, there may be a communications problem between the CDPD modem card and the primary terminal control electronics. In such cases, turn terminal power off then remove and re-install the modem card. If the problem persists, contact your terminal service provider.

SECTION 3 - SETUP AND OPERATION

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.) TRITON CONNECT IP ADDRESS
2.) ALARM IP ADDRESS
3.) CALL BACK (ENABLE\DISABLE)
4.) TRITON CONNECT (ENABLE\DISABLE)

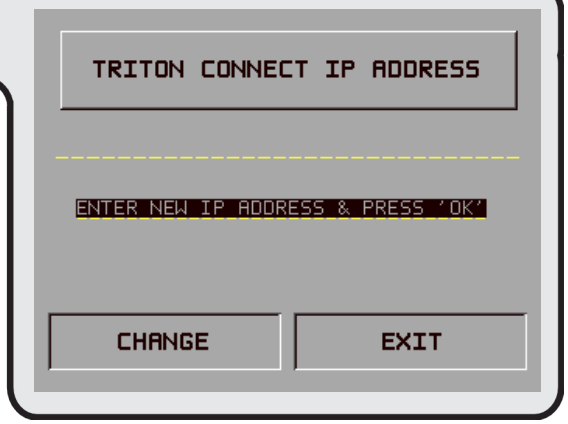
NOTE: Triton Connect is an option and may not be activated on your terminal.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 3 - SETUP AND OPERATION

FUNCTION: TRITON CONNECT IP ADDRESS



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 the TRITON CONNECT IP ADDRESS option.

DESCRIPTION:

The TRITON CONNECT IP ADDRESS function is used to enter the IP Address that the terminal uses to contact a Triton Connect Host Computer. The TRITON CONNECT IP ADDRESS (and Port Number) will be provided by the operator of the Triton Connect Host Computer. The address is a two-part entry. The first part of the address consists of a sequence of four groups of numbers in typical IP Address format. Each number group can be up to three digits long, and each group is separated by a period (dot character), as in this example: **123.321.01.99**. The second part of the TRITON CONNECT IP ADDRESS consists of a five-digit Port Number, which is separated from the first part by a slash ("/") character, as in this example: **123.321.01.99/23353**.

Follow these steps to initially enter or change the TRITON CONNECT IP ADDRESS:

1.) Select CHANGE to blank the current entry, if necessary.
2.) Enter the first group of numbers in the IP Address using the main keypad keys.
3.) Enter a 'dot' character by pressing the <BLUE> key, then the <0> key TWICE to select the period', then the <RIGHT ARROW> key to lock it in.
4.) Repeat Steps 2 and 3 for the second and third groups of numbers in the IP Address.
5. Enter the fourth group of numbers in the IP Address.
6. Enter the slash ("/") character by pressing the <BLUE> key then pressing the <5> key until the slash character appears. Press the <RIGHT ARROW> key to lock in the character.
7.) Enter the five-digit Port Number.

After entering the TRITON CONNECT IP ADDRESS, take the EXIT option to accept the entry, or press the <CANCEL> key on the main keypad to discard any changes.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

SECTION 3 - SETUP AND OPERATION

FUNCTION: ALARM IP ADDRESS

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 the ALARM IP ADDRESS option.

DESCRIPTION:

The ALARM IP ADDRESS function is used to enter the IP Address that the terminal uses to contact a Triton Connect Host Computer to report alarm conditions. The ALARM IP ADDRESS will be provided by the operator of the Triton Connect Host Computer. The address is a two-part entry. The first part of the address consists of a sequence of four groups of numbers in typical IP Address format. Each number group can be up to three digits long, and each group is separated by a period (dot character), as in this example: 123.321.01.99. The second part of the ALARM IP ADDRESS consists of a five-digit Port Number, which is separated from the first part by a slash ("/") character, as in this example: **123.321.01.99/23353**.

Follow these steps to initially enter or change the ALARM IP ADDRESS:

1.) Select CHANGE to blank the current entry, if necessary.
2.) Enter the first group of numbers in the IP Address using the main keypad keys.
3.) Enter a 'dot' character by pressing the <BLUE> key, then the <0> key TWICE to select the period', then the <RIGHT ARROW> key to lock it in.
4.) Repeat Steps 2 and 3 for the second and third groups of numbers in the IP Address.
5. Enter the fourth group of numbers in the IP Address.
6. Enter the slash ("/") character by pressing the <BLUE> key then pressing the <5> key until the slash character appears. Press the <REIGHT ARROW> to lock in the entry.
7.) Enter the five-digit Port Number.

After entering the ALARM IP ADDRESS, take the EXIT option to accept the entry, or press the <CANCEL> key on the main keypad to discard any changes.

ERROR CONDITIONS:

There are no error conditions directly associated with this function.

APPENDIX A
CDPD BOOSTER KIT

Appendix A - CDPD Booster Kit

Introduction

This appendix describes how to install the optional CDPD Booster Kit.

Parts and Tools Required

CDPD BOOSTER KIT PN 06100-00048	
PARTS SUPPLIED	
1	Booster Amplifier, PN 01270-00003
1	Power Supply, PN 01100-00027
1	SMA Female to TNC Male Adapter, PN 01060-00362
1	SMA Male to TNC Male Coax Cable, PN: 09120-00008
TOOLS REQUIRED	
Wire Cutter/Stripper	
OPTIONAL EQUIPMENT	
Antenna (high-gain), PN 01270-00004	
20-Ft Extension Cable, PN 09600-00067	

Installing the CDPD Booster Kit

Unpack Booster Kit. Verify all components are present in the kit.

WARNING

The antenna must not be attached to any metal or metallic surface!

APPENDIX A - CDPD BOOSTER KIT

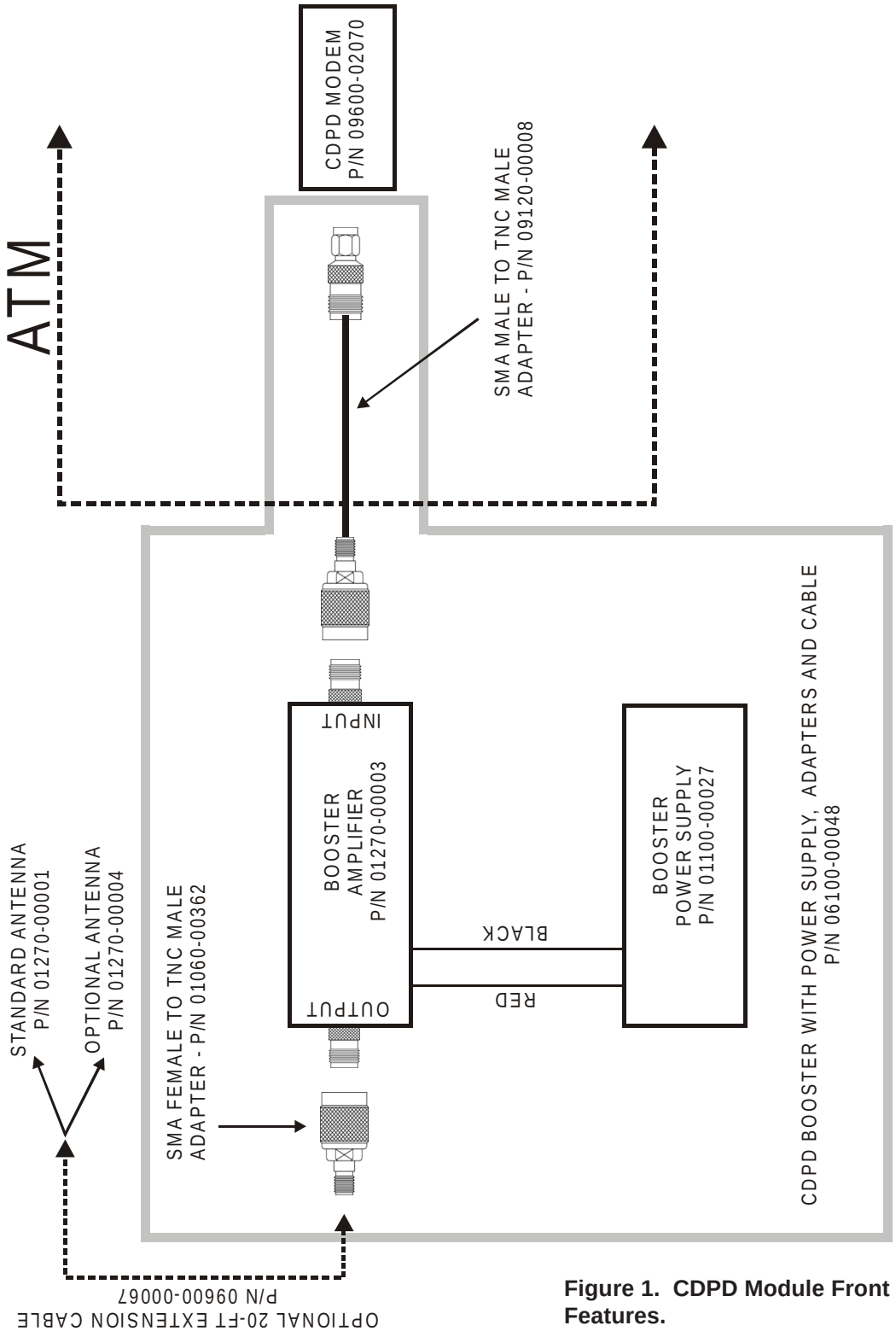


Figure 1. CDPD Module Front Panel Features.

Appendix A - CDPD Booster Kit

Refer to Figure 1 on page A-3 as you follow these steps to install the Booster Kit components:

1. Open ATM control panel. Turn OFF ATM power supply. Open the ATM security vault.

2. If installed, disconnect the existing antenna cable from the CDPD Modem PCB (PN 09600-02070). Connect the SMA end of the SMA Male-to-TNC Male adaptor cable to the antenna jack on the CDPD Modem PCB.

3. Starting inside the ATM upper enclosure, route the free end of the SMA Male-to-TNC Male adaptor cable down through the access hole in the top of the security vault. Route the cable through the existing cable clamps, if possible and out the access hole in the lower rear wall of the vault, as shown in Figures 2 and 3. Connect to the INPUT jack of the Booster Amplifier.

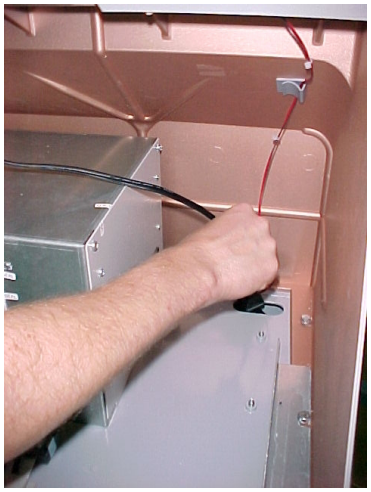


Figure 2. Feed cable through access hole in top of vault.

Figure 3. Feed cable out access hole in rear of vault.

4. Cut the existing terminals from the ends of the red and black booster-amp power supply wires.

5. If booster amplifier wires are pre-stripped, skip this step. If wires are NOT pre-stripped, use a wire-stripping tool (set for 18-gauge) to remove approximately one-half inch of insulation from the BLACK and RED wires.

Appendix A - CDPD Booster Kit

6. Press down the lever on the BLACK (-) wire terminal at the rear of the power supply module. This opens the wire terminal. If the lever does not catch in the down position, maintain downward pressure to keep the terminal open. Feed the bare conductor at the end of the BLACK wire completely into the opening in the terminal. Release the lever to secure the wire.

7. Connect the RED booster-amp wire to the RED (+) terminal, using the procedure in the previous step.

8. Connect the antenna cable to the SMA Female-to-TNC Male Adapter. Connect the antenna cable with adapter attached to the OUTPUT jack of the Booster Amplifier. Place Booster Amplifier/Power Supply and antenna in designated mounting location.

> **OPTIONAL:** The optional 20-ft Entension Cable can be used to place the antenna further away from the Booster Amplifier. Connect one end of the extension cable to the SMA FEMALE-to-TNC MALE adapter and connect to the OUTPUT jack of the Booster Amplifier. Connect the antenna cable to the free end of the entension cable.

9. Turn ATM power supply ON. Turn on Booster Amplifier. Ensure power indicator on booster amplifier illuminates.

10. Close and lock the security vault. Close and lock the ATM control panel.