



**Integrated Services
Digital Network (ISDN)**

**ISDN 8503T Voice Terminal
Feature Package 3**

User's Manual

**COMCODE 106454507
555-021-728
Issue 1, October 1991**

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HEARING AID COMPATIBILITY

This voice terminal is compatible with the inductively coupled hearing aids prescribed by the Federal Communications Commission (FCC).

INTERFERENCE WARNING INFORMATION - Part 15 of FCC Rules

Federal Communications Commission (FCC) Rules require that you be notified of the following:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1 Reorient or relocate the receiving antenna.
- 2 Increase the separation between the equipment and receiver.
- 3 Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4 Consult the dealer or an experienced radio/TV technician for help.

You may find the following booklet prepared by the Federal Communications Commission helpful: *How to Identify and Resolve Radio-TV Interference Problems*.

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20042, Stock No. 004-000-00345-4.

IMPORTANT SAFETY INSTRUCTIONS

Only the most careful attention has been devoted to quality standards in the manufacture of your new telephone. Safety is a major factor in the design of every set. But, safety is YOUR responsibility too.

Please read carefully the helpful tips listed below and on the next page. These suggestions will enable you to take fullest advantage of your new voice terminal. Then, retain these tips for later use.

When using your telephone equipment, the following safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons.

- Read and understand all instructions.
- Follow all warnings and instructions marked on the telephone.
- This telephone can be hazardous if immersed in water. To avoid the possibility of electrical shock, do not use the telephone while you are in the bathtub or shower, or when you are wet. If you accidentally drop the telephone into water, do not retrieve the equipment until you have first unplugged the line cord from the modular wall jack. Do not reconnect the telephone until it has dried thoroughly.
- Avoid using the telephone (other than the cordless type) during electrical storms in your immediate area. There is a remote risk of electric shock from lightning. Urgent calls should be brief. Even though protective measures may have been installed to limit electrical surges from entering your home or business, absolute protection from lightning is impossible.
- If you suspect a natural gas leak in the vicinity of the telephone, report it immediately, but use a telephone away from the area in question. The telephone's electrical contacts could generate a tiny spark. While unlikely, it is possible that this spark could ignite heavy concentrations of gas.
- Never push objects of any kind into the telephone through housing slots since they may touch hazardous voltage points or short out parts that could result in a risk of electric shock. Never spill liquid of any kind on the telephone. If liquid is spilled, however, dry immediately, and refer any service problems to qualified service personnel.
- To reduce the risk of electric shock, do not disassemble the telephone. There are no user serviceable parts inside. Opening or removing covers may expose you to hazardous voltages. Incorrect reassembly can cause electric shock when the telephone is subsequently used.

- Slots and openings in the housing must not be blocked or covered. The openings should never be blocked by placing the telephone on a sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
- The telephone should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply being used, contact a qualified service person.
- Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
- Do not overload the AC wall outlets and extension cords as this can result in risk of fire or electric shock.
- Before cleaning, disconnect all cords from the telephone. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Disconnect the cords on the telephone and refer servicing to qualified service personnel when these conditions exist:
 - ▶ When the power supply cord or plug is damaged or frayed.
 - ▶ If liquid has been spilled into the product.
 - ▶ If the product has been exposed to rain or water.
 - ▶ If the telephone does not operate normally by following the operating instructions, adjust only those controls described in the instructions. Do not attempt to adjust any other controls since doing so may result in damage and will require extensive work by a qualified technician to restore the product to normal operation.
 - ▶ If the product has been dropped or the housing has been damaged.
 - ▶ If the product exhibits a distinct change in performance.

SAVE THESE INSTRUCTIONS

When you see this warning symbol on the product, refer to the instructions booklet packed with the product for information before proceeding.

Introduction

Congratulations on the addition of the AT&T 8503T voice terminal to your Integrated Services Digital Network (ISDN) communications system. Following our tradition of excellent quality and high reliability, we have designed this new voice terminal with the latest advances in telecommunications technology.

The 8503T voice terminal offers three call appearances, Mute, Redial, Program, Memory, Conference/Ring, Drop/Test, Transfer/Pause, Hold buttons, Volume control, and an adjunct jack, all that you will need for easy and efficient call-handling.

Organization of this Manual

This manual is arranged into the following sections:

- 1 **Your 8503T ISDN Voice Terminal** -- shows the top and bottom views of the 8503T and explains its features
- 2 **Feature Descriptions** -- lists the voice features, tells what each feature does, and suggests how you might use it
- 3 **Voice Features** -- gives step-by-step procedures on using voice features
- 4 **Labeling the Designation Card** -- explains how to label the call appearance and memory-dialing designation card
- 5 **Installation** -- gives brief step-by-step procedures for connecting your voice terminal to the system, connecting the handset and the line cord, desktop and wall installation, attaching adjunct equipment, and testing the system
- 6 **Technical Description** -- provides information on the technical aspects of the 8503T voice terminal

Conventions Used in this Manual

A rectangular box containing a feature name, such as *Program* , represents any button having a feature assigned to it, with a corresponding feature name label.

A Note on the Term, System Manager

In several areas of this manual it is suggested that you refer to your **System Manager** for more information. The System Manager may also be called the *System Administrator* or *Telecommunications Manager*. For handy reference, use the space below to write your System Manager's name, room number and extension.

Name _____

Room _____ Extension _____

Your 8503T ISDN Voice Terminal

Before you begin using your 8503T voice terminal, you may want to familiarize yourself with the voice terminal features, lights, jacks, and other components that are available to you. To help you do this, **Figures 1 and 2** depict the top and bottom views of the 8503T voice terminal. **Figure 3** shows a magnified view of the line and adjunct jacks, and also of the power and terminating resistor options.

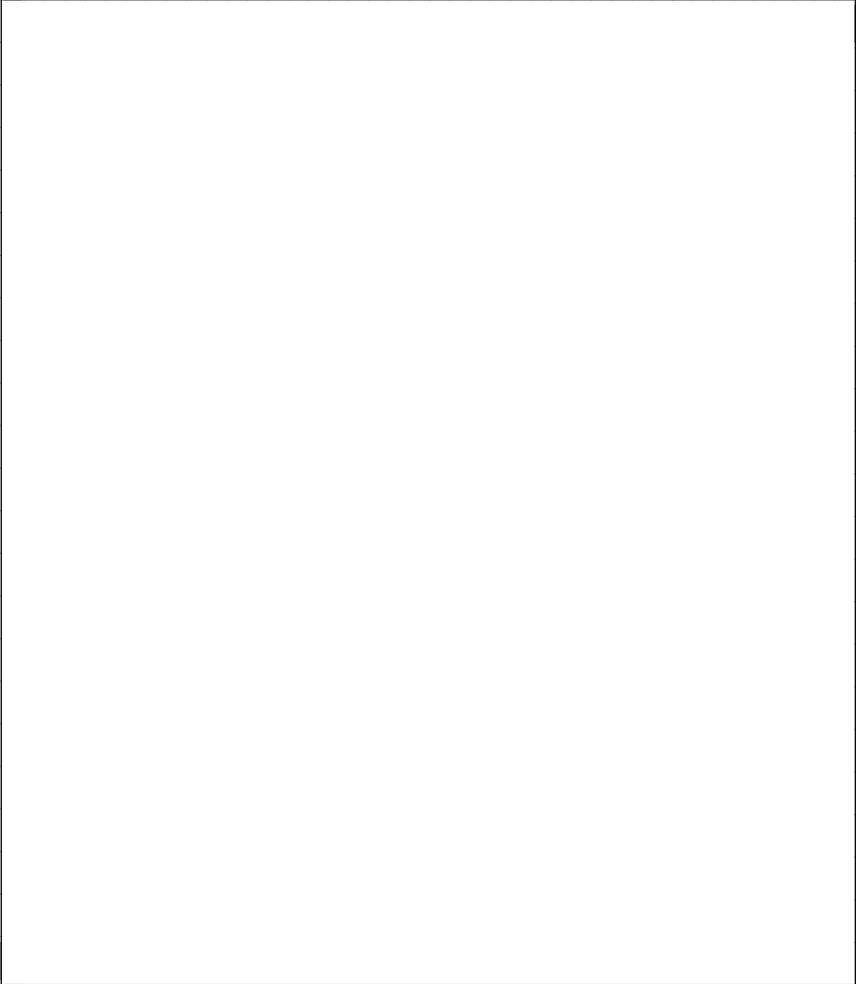


FIGURE 1 8503T Voice Terminal (Top View)

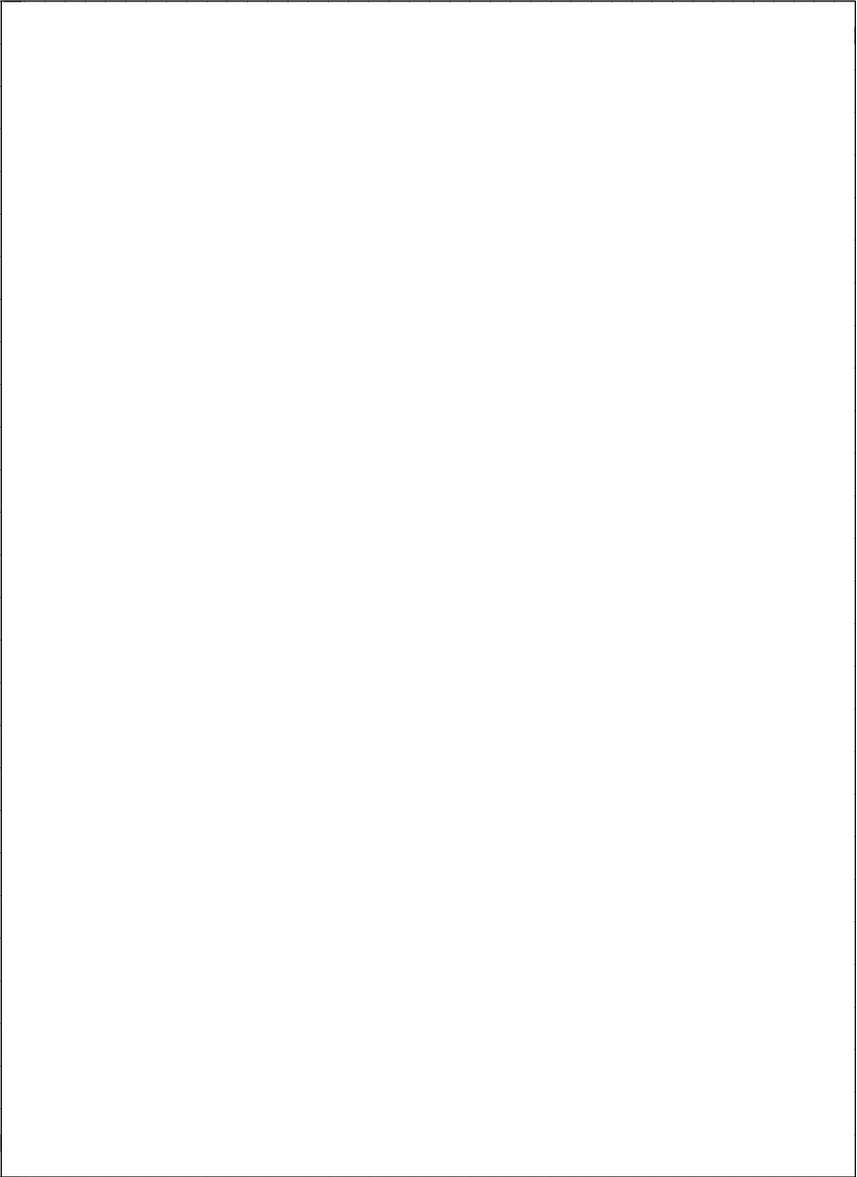


FIGURE 2 8503T Voice Terminal (Bottom View Without Desktop Stand)

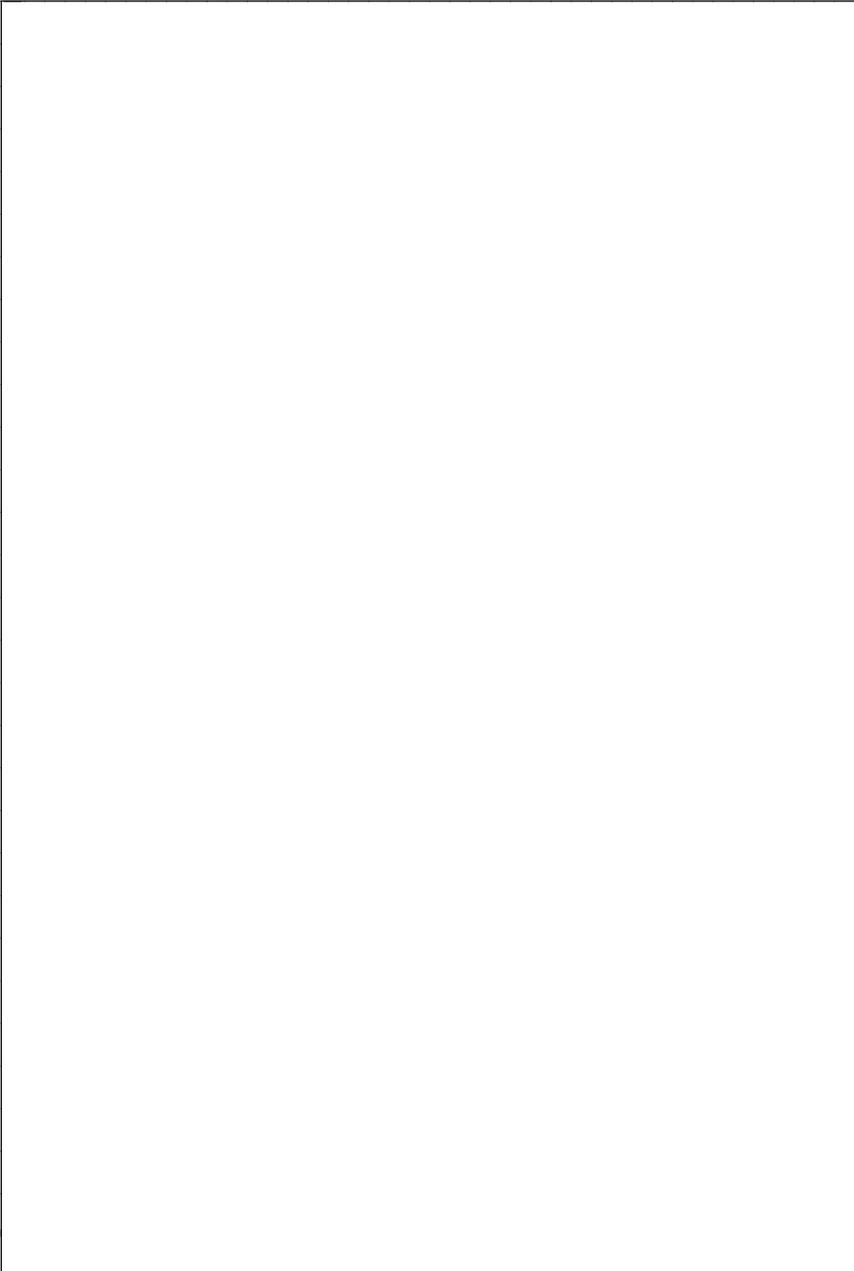


FIGURE 3 8503T Voice Terminal (Bottom View, Magnified)

The 8503T voice terminal components pictured in **Figures 1, 2** and **3** are described below. For your convenience, they are listed alphabetically.

Adjunct jack Located on the bottom of your voice terminal, this jack is used for connecting an external speakerphone, a headset adaptor, or other adjunct. The jack is labeled "ADJUNCT."

Auxiliary power jumpers Power jumpers located in the base of the voice terminal for using an adjunct/bulk power unit.

Call appearances/Feature buttons The 3 buttons devoted to handling incoming and outgoing calls (call appearances) and are labeled with the exchange and extension number. They can be used to access features (feature buttons) and are labeled with a feature name. Each has a red light, which indicates the *selected line* and a green light which indicates the *status*. **NOTE:** Although these 3 buttons can be used for either call appearances or for features, it is recommended that all 3 buttons will be used for call appearances.

Conf/Ring button Conference--for setting up conference calls with more than one additional party. Ring--accessed through the use of the Program button to select a personalized ring pattern.

Designation/Instruction card For noting the extension of your voice terminal or the feature that the button can access, and for labeling local repertory assignments. The back of the card contains instructions for programming memory dialing, changing the ring pattern, and adjusting ringer loudness. See the section, "Labeling the Designation Card".

Dial pad/Memory access Dial pad--the standard 12-button pad for dialing phone numbers and accessing features. Memory--accessed through the use of the Program button to assign and program repertory number locations to the dial pad buttons, and accessed through the, Memory button to dial preprogrammed numbers.

Drop/Test button Drop--for disconnecting from a call or dropping the last party added to a conference call. Test--accessed through the use of the Program button to begin a self-test of the voice terminal.

Handset For placing and answering calls (also known as the **receiver**).

Handset jack Located on the bottom of your voice terminal, this jack is used for connecting the handset cord to your voice terminal. The jack is marked by a handset symbol.

Hold button A red button, for putting a call on hold.

Line jack Located on the bottom of your voice terminal, this jack is used for connecting the line cord to your voice terminal. The jack is labeled "LINE."

Memory button For accessing/programming repertory numbers saved in the voice terminal, using the dial pad. Gives you a total of 12 possible memory-repertory dialing numbers.

Message light A red light which goes on steadily when a message has been left for you. See your System Manager for instructions regarding your local message retrieval procedures.

Mute button For turning off the microphone of the handset so the person on the call cannot hear you.

Phantom power jumpers Power jumpers located in the base of the voice terminal for drawing power from the PBX.

Program button For programming 12 local repertory numbers into dial pad locations, selecting a personalized ring pattern, and testing the 8503T.

Redial button For redialing the last number that you dialed from the dial pad.

ROM cartridge Located in the base of the voice terminal, a removable software cartridge for upgrading features in the future.

Slide cover Located in the base of the voice terminal, for accessing the line and adjunct jacks, and also the power and terminating resistor options.

Terminating resistor jumpers Located in the base of the voice terminal, for line termination.

Transfer/Pause button Transfer--for transferring a call to another voice terminal. Pause--for inserting a 1.5 second pause in a telephone number when programming a memory-repertory dialing button.

Volume control button When on a call, used to increase or decrease the receive volume of the handset; when not on a call, used to increase or decrease the ringer volume.

Feature Descriptions

Here are brief descriptions of the commonly used features, including what each one does and how you might want to use it.

Conf (Conference) Allows you to add parties to a call, so that you can conduct a conversation with more than one additional party. Use to set up time-saving conferences, or to spontaneously include a party important to a discussion.

Drop Disconnects from a call without requiring you to hang up the handset or press the switchhook. Use whenever you are using the handset and want to continue using it for another action after ending a call. Can also be used with the Conference feature to disconnect the last party added.

Hold Temporarily disconnects you from a call, holding it until you can return to it. While a call is on hold, you can place another call, activate another feature, answer a waiting call, or leave your voice terminal to perform another task. Use when you have a call that you don't wish to drop, but for which you have to interrupt briefly to do something else.

Redial Automatically redials the last number you dialed, either an extension or an outside number. Use to save time in redialing a busy or unanswered number.

Memory Dialing Allows you to program and store up to 12 telephone numbers into dial pad button locations. Use to save time when dialing frequently-called numbers.

Message Your Message light goes on to let you know that a caller has left a message. Follow your System's message retrieval procedures to get your message.

Mute Turns off the microphone in the handset. Use when you want to confer with someone in the room with you, but you do not want the other party on the call to hear your conversation. (You are still able to hear the person on the call.)

Test Use the test subfeature to self-test the buttons and their associated lights and dial pad keys on your voice terminal.

Transfer Transfers a call from your voice terminal to another extension. Use when your caller needs to speak further with someone else.

NOTE: Calls from an outside number to your voice terminal can be transferred only to an extension, *not* to another outside number.

Voice Features

The procedures which follow give short, step-by-step instructions for using each feature. For your convenience, the features are listed alphabetically. Unless otherwise noted, the calling procedure assumes that the handset is off-hook.

ANSWERING AND PLACING A CALL

To answer a call

- 1 Lift the handset
 - The green light (below the red light) goes on steadily at the selected call appearance button

NOTE: If you are not connected immediately, press the call appearance button next to the flashing green light.

To place a call

- 1 Lift the handset
 - Green and red lights go on steadily at the selected call appearance button
- 2 Listen for the dial tone and dial the number you want to call

To place a call using memory dialing

- 1 Lift the handset
 - Green and red lights go on steadily at the selected call appearance button
- 2 Listen for the dial tone and press
- 3 Press the dial pad location where the number was stored

To end (or drop) a call

- 1 Hang up handset or press button

NOTE: If you use the button, you will hear a dial tone and your voice terminal is ready for another call.

To adjust the receive volume of the handset (while on a call)

- 1 Press to increase the volume, or to decrease the volume

CONFERENCE

To add another party to a call

- 1 While on a call, press **Conf** to add next party
 - Current call is placed on hold
 - Red conference light flutters

NOTE: If an idle call appearance button is not automatically selected, press one yourself.
- 2 Listen for the dial tone, and dial the number of the next party
- 3 Press **Conf** when the next party answers
 - Red conference light goes out
- 4 Repeat steps 1 through 3 to add each additional party to the conference

To drop a party from a conference call

- 1 Press **Drop**
 - Last party you added is dropped

DROP

To disconnect from a call and obtain dial tone without hanging up the handset

- 1 Press **Drop**
 - Listen for dial tone

NOTE: Pressing **Drop** will also disconnect the last party added to a conference call

HOLD

To place a call on hold while you answer another call

1 Press

- Red light goes off, and green light flutters (next to held call appearance)

2 Press call appearance button of incoming call

- Red light goes on, and green light goes on steadily
- You are connected to the second call

NOTE: If you put a conference call on hold, the other parties remain connected.

To return to held call

1 Press the call appearance button next to the held call

- Red lights goes on, and green light goes on steadily
- You are connected to held call

REDIAL

To automatically redial the last number you dialed manually (extension, outside number, or trunk/feature code)

1 Lift the handset

2 Listen for the dial tone, and press

- Last number dialed is automatically redialed

3 Wait for called party to answer

NOTE: Redial will not work for memory-repitory dialing numbers.

MEMORY DIALING (STORED NUMBERS)

To program a memory-repertory dialing number

- 1 While handset is on-hook, press **Program**
 - The red program light goes on
- 2 Dial the telephone number or extension that you want to store (16-digit max.)
- 3 Press **Memory**

NOTE: If you are dialing a number outside your PBX, press **Transfer** after the access code. For example, 9 Pause 555 1212.
- 4 Press the button on dial pad where you want to store number
 - Voice terminal sends a confirmation tone and automatically takes you out of programming mode
- 5 Record the telephone number or extension on the the designation card
- 6 To program another number, repeat steps 1 through 5

NOTE: You can locally store 1 repertory number for each of the dial pad buttons numbered 0 through 9, * and #.

To dial a stored number

- 1 Listen for dial tone and press **Memory**
- 2 Press the dial pad button location where the number was stored

To clear a stored number

- 1 While handset is on-hook, press **Program**
 - The red program light goes on
- 2 Press **Memory**
- 3 Press button on dial pad where you stored the number that you want to clear
 - Voice terminal sends a confirmation tone and automatically takes you out of programming mode

MESSAGE RETRIEVAL

See your System Manager for instructions regarding the message retrieval procedures for your system.

MUTE

To turn off the microphone in the handset so the other party cannot hear you

- 1 While on a call, press
 - The red mute light goes on
 - The other party cannot hear your conversation, but you can hear the other party

To turn the handset back on so the other party can hear you again

- 1 Press again
 - The red mute light goes off
 - You can resume your conversation with the other party

SELECT RING

To select a personalized ring pattern

- 1 While the handset is on-hook, press
 - Program light goes on steadily
- 2 Press
 - Telephone plays current ring pattern
- 3 Press * on the dial pad to play the next ring pattern
 - Listen until ring pattern is complete
- 4 Repeat Step 3 until you hear the ring pattern you want
- 5 Press # on the dial pad to save ring pattern
 - Voice terminal sends confirmation tone and returns to calling mode

NOTE: To discontinue at any time, press

To adjust the ring volume (when you are *not* on a call)

- 1 Press to increase the ringer volume, or to decrease the ringer volume

TRANSFER

To send a call to another extension or outside number

1 Press

- Present call is put on hold
- Red transfer light flutters

2 Listen for dial tone

3 Dial number that call is to be transferred to (third party)

- Remain on line and announce call when the third party answers

NOTE: If the number of the third party is busy or there is no answer, press the call appearance button next to the fluttering green light to disconnect the incomplete call and to return to the call on hold.

4 Press again

- Party on hold is transferred to the third party
- Your terminal is released from the call

NOTE: You can transfer an outside call to an extension, and an extension to an extension. You *cannot* transfer a call from an outside number to another outside number.

5 Hang up

NOTE: To prevent a transfer call from disconnecting, complete the transfer process before entering into another action, such as answering another call.

SELF-TEST

To make sure your voice terminal is working properly

NOTE: The handset must be on-hook when you test the voice terminal. Performing the self-test terminates any call in progress, and prevents you from receiving calls until the test is completed.

- 1 While the handset is on-hook, press **Program**
- 2 Press **Drop**
 - Terminal emits a tone
 - Message light goes on
- NOTE:** If these events do not occur, contact your System Manager.
- 3 After you hear repeated tone, press any button on the voice terminal
 - Terminal emits a key click
- 4 Press Mute, Program, Conf, and Transfer buttons
 - Lights to the left of Mute, Program, Conf, and Transfer go on steadily
- 5 Press Redial, Memory, Drop, and Hold
 - Lights to the left of Mute, Program, Conf, and Transfer flutter
- 6 Lift handset and press each dial pad key
 - Message light flutters
 - Handset emits a touch tone as each key is pressed
- 7 Hang up handset
- 8 Press **Program** , then **Drop** to exit and return to calling mode
 - All lights on set will flash once

NOTE: If you do *not* press **Program** and **Drop** to end the test, the voice terminal automatically exits the self-test after 30 seconds.

NOTE: The ringer loudness setting reverts back to the default setting.

Tones and Their Meanings

VOICE TERMINAL TONES

- **busy tone**—A low-pitched tone repeated 60 times a minute; indicates the number dialed is in use.
- **confirmation tone**—Two rising tones; indicates a feature activation or cancellation has been accepted.
- **dial tone**—A continuous tone; indicates dialing can begin.
- **error tone**—An alternating high and low tone; indicates a dialing error, a denial of the service requested, or a failure to dial within a preset interval (usually 10 seconds) after lifting the handset or dialing the previous digit.
- **local error tone**—A steady low tone; indicates an incorrect button press.
- **reorder tone**—A fast busy tone; indicates a call is blocked.

Labeling the Designation Card

The **Call Appearance and Memory-Dialing Designation Card** is a removable designation card (placed behind a protective transparent cover). It contains the following:

- Sections 0-9, *, and # for labeling the location of the dial pad where you stored a particular telephone number.
- Sections a, b, and c for noting the telephone number or extension of your voice terminal or the feature that the button can access.

To label the designation card, do the following:

- 1 The transparent cover is attached to the frame of the voice terminal by tabs on the top and bottom of the cover. To remove the cover, pinch the top tab and lift the transparent cover.
- 2 Remove the card. Print or type the desired labels on the card.
- 3 To replace the transparent cover, insert the tabs at the bottom, and press the top down until it clicks.

NOTE: There are instructions for programming, changing the ring pattern, and adjusting ringer loudness are **ON THE BACK** of the designation card.

Installation

CONTENTS OF THE 8503T PACKAGE

Before you begin, make sure you have the following parts in the box:

- 8503T voice terminal (with attached desktop stand)
- Handset
- 9-foot handset cord
- 7-foot line cord
- Designation/Instruction card
- Cover for Designation/Instruction card
- ROM cartridge (installed in the bottom of the voice terminal)

CONNECTING THE 8503T TO THE SYSTEM

The circuitry of the 8503T voice terminal contains a set of terminating resistor jumpers, labeled **ON** and **OFF**. **ON** enables the terminating resistor, and **OFF** bypasses the terminating resistor. It also contains a set of power jumpers, labeled **AUX** (auxiliary), and **PHAN** (phantom). Auxiliary draws power from an adjunct/bulk power unit, and phantom draws power from the PBX.

WARNING: Use only a UL-Listed Communication Circuit Power Source.

The diagram imprinted in the base of the voice terminal, to the right of the jumper pins, shows the location of the power and terminating resistor jumpers. (There are 12 jumper pins, positioned 4 across and 3 down. Each of the 4 jumper posts covers 2 pins.)

The following paragraphs contain instructions for connecting the 8503T to the system using one of the configurations listed below:

- DEFINITY® Communications System Generic 1 and Generic 2
- 5E5,6

For DEFINITY® Communications System Generic 1 and Generic 2:

- 1 Locate the terminating resistor jumpers by sliding the cover downward (covering the line jack and adjunct jack) until the power and terminating resistor jumpers are visible. Verify the jumper settings for your given configuration.

WARNING: If the terminating resistor jumpers are not set correctly, they *must* be set by a qualified technician.

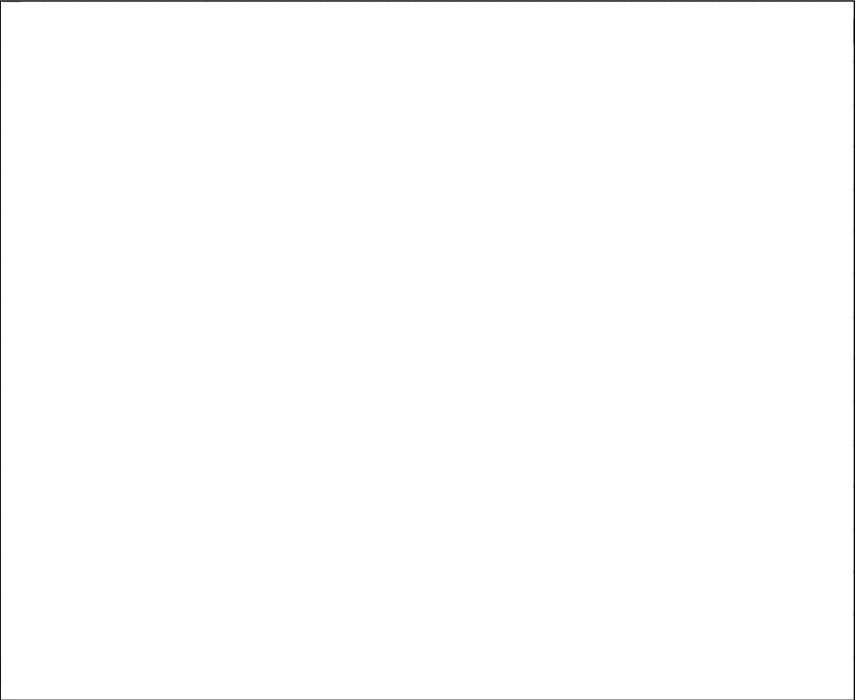


FIGURE 4 Settings for DEFINITY® Communications System G1 and G2

- Verify that the terminating resistor jumpers are set to **OFF**, when the voice terminal is in a point-to-point configuration and the terminating resistor is placed in the closet or a 440A4 is connected on the line.
- Verify that the terminating resistor jumpers are set to **ON**, when the voice terminal is in a point-to-point configuration and the terminating resistor is *not* in the closet or a 440A4 is *not* connected on the line.
- Verify that the terminating resistor jumpers are set to **OFF**, when the voice terminal is in a multipoint configuration and the terminating resistor is either in the closet, a 440A4 is connected on the line, or the jumper is set to **ON** in any of the other voice terminals on the line. **NOTE:** Only one terminating resistor is used for multipoint configuration.
- Verify that the terminating resistor jumpers are set to **ON**, when the voice terminal is in a multipoint configuration and the terminating resistor is *not* in the closet, or a 440A4 is *not* connected on the line, or the jumper is *not* set to **ON** in any of the other voice terminals on the line.

- 2 Locate the Phantom/Auxiliary power jumpers. Verify the power jumper settings for your given configuration.

WARNING: If the phantom/auxiliary power jumpers are not set correctly, they *must* be set by a qualified technician.

- Verify that the power jumpers are set to **PHAN** (phantom) when power is provided by the PBX.
 - Verify that the power jumpers are set to **AUX** (auxiliary) when power is provided in the closet or locally.
- 3 Slide the cover upward (covering the power and terminating resistor jumpers) until the line jack and adjunct jack are visible.

For 5E5,6 power connection:

- 1 Locate the terminating resistor jumpers by sliding the cover downward (covering the line jack and adjunct jack) until the power and terminating resistor jumpers are visible. Verify the jumper settings for your given configuration.

WARNING: If the terminating resistor jumpers are not set correctly, they *must* be set by a qualified technician.

- Verify that the terminating resistor jumpers are set to **OFF**, when the set is in a point-to-point configuration and the terminating resistor is in the closet or a 440A4 is connected on the line.
- Verify that the terminating resistor jumpers are set to **ON**, when the set is in a point-to-point configuration and the terminating resistor is *not* in the closet or a 440A4 is *not* connected to the line.
- Verify that the terminating resistor jumpers are set to **OFF**, when the set is in a multipoint configuration and the terminating resistor is either in the closet or a 440A4 is connected on the line, or the jumper is set to **ON** in one of the other sets on the line. **NOTE:** Only one terminating resistor is used for multipoint configuration.
- Verify that the terminating resistor jumpers are set to **ON**, when the set is in a multipoint configuration and the terminating resistor is *not* in the closet, a 440A4 is *not* connected on the line or, the jumper is *not* set to **ON** in any of the other sets on the line.

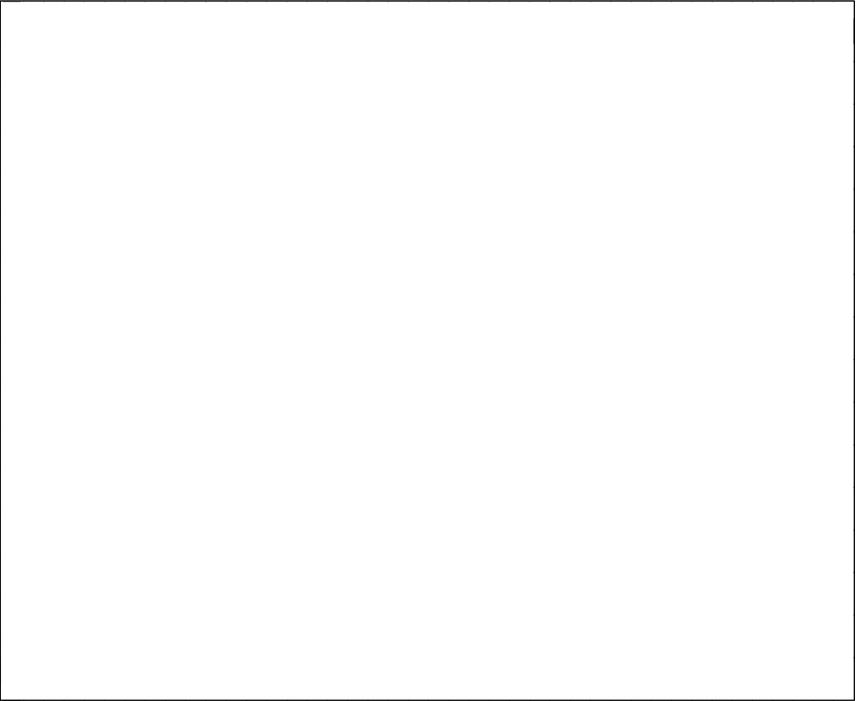


FIGURE 5 Settings for a 5E5,6 Connection

- 2 Locate the Phantom/Auxiliary power jumpers. Verify the power jumper settings for your given configuration.

WARNING: If the phantom/auxiliary power jumpers are not set correctly, they *must* be set by a qualified technician.

- Verify that the power jumpers are set to **AUX** (auxiliary).
- 3 Slide the cover upward (covering the power and terminating resistor jumpers) until the line jack and adjunct jack are visible.

DESKTOP INSTALLATION

The following instructions are for a desktop installation. If you are mounting the voice terminal on the wall, proceed to the next section, "Wall Installation".

- 1 Place the voice terminal face down on a flat surface.
- 2 Remove the desktop stand which is attached to the base of the voice terminal by tabs on the top and bottom of the stand, as shown in **Figure 6**.
 - Using your thumb, press inward on the top of the stand (wide part) until you can lift the top of the stand out of the tab slot on the voice terminal.
 - Lift the bottom of the stand out of the lower tab slot.

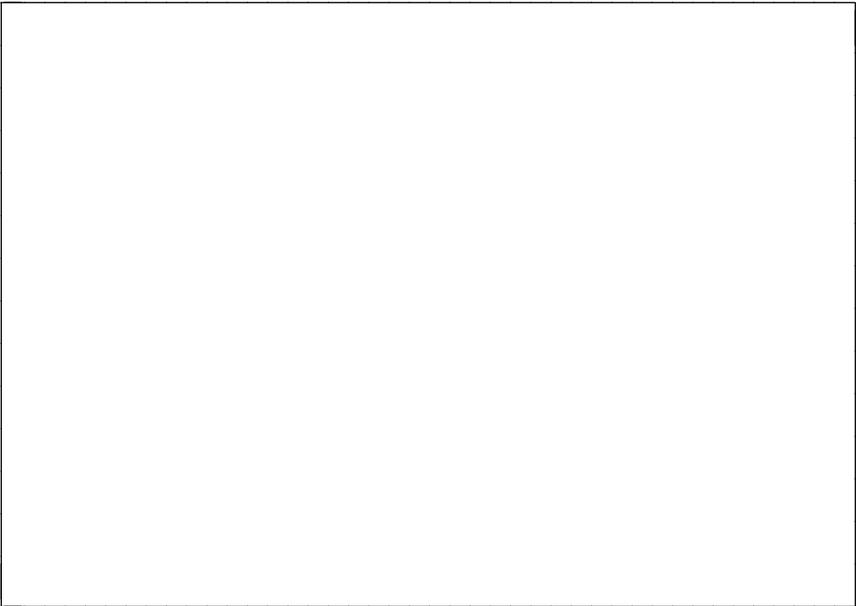


FIGURE 6 Removing the Desktop Stand

- 3 To connect the 8503T to the system, refer to the section, "Connecting the 8503T to the System".
- 4 Insert the bottom tab of the stand into the 8503T and press down on the top of the stand until it snaps into place.

NOTE: The wide end of the stand should be at the top of the voice terminal.

- 5 Pass the line cord (and adjunct cord, if applicable) through the large rectangular opening in the stand.
- 6 Snap one end of the 7-foot line cord into the "LINE" jack and the adjunct cord (if applicable) into the "ADJUNCT" jack on the bottom of the voice terminal. See **Figure 7** for the location of the jacks. For more information on installing adjuncts, refer to the section "Attaching Adjunct Equipment".

NOTE: Correct cord types must be used when connecting terminals and associated components. Failure to use the correct cord and/or to properly insert the cord into the jack may cause terminal malfunction or equipment damage.

- 7 Pass the line cord (and adjunct cord, if applicable) through the routing channel leading to the top of the desktop stand, as shown in **Figure 7**.
- 8 Snap one end of the coiled cord into the handset jack (marked with the handset symbol) on the bottom of the voice terminal, as shown in **Figure 7**. Thread the cord into the channel leading to the side edge of the voice terminal; the handset cord will then lead off the side of the 8503T.

WARNING: Do **not** insert the handset cord into the adjunct jack. It will cause equipment damage.

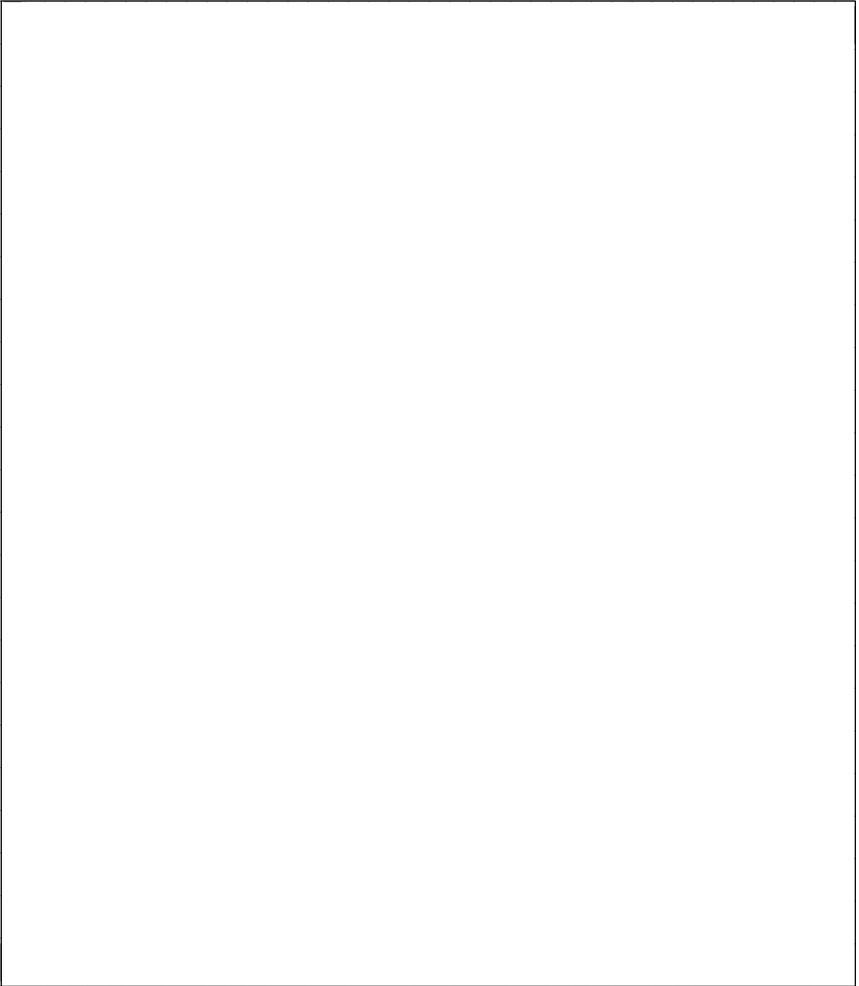


FIGURE 7 Line, Adjunct, and Handset Cord Routing for Desktop Installation

- 9 Turn the voice terminal right side up, with the front facing you.
- 10 Snap the free end of the handset cord into the handset and place the handset in the cradle.
- 11 Snap the free end of the line cord into the modular jack. Lift the handset and listen for the dial tone.

WALL INSTALLATION

- 1 Make sure the 8-conductor wall mount plate is in place.
- 2 Turn the voice terminal right side up.
- 3 Slide the handset retainer hook out of the voice terminal.
- 4 Rotate the hook and slide it back into its slot so that the bottom part now sticks out from the top. Snap the hook firmly into place. (See **Figure 8.**)

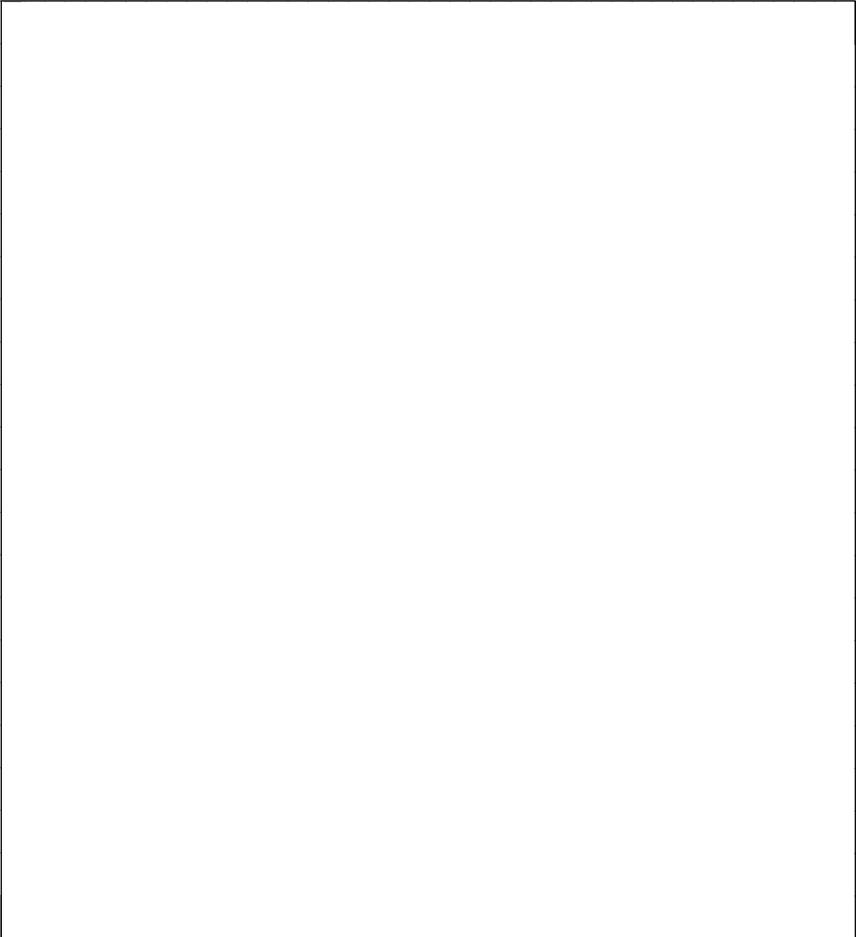


FIGURE 8 Reversing the Handset Hook

- 5 Place the voice terminal face down on a flat surface.
- 6 Remove the desktop stand which is attached to the base of the voice terminal by tabs on the top and bottom of the stand (**Figure 4**).
 - Using your thumb, press inward on the top of the stand (wide part) until you can lift the top of the stand out of the tab slot on the voice terminal.
 - Lift the bottom of the stand out of the lower tab slot.
- 7 To connect the 8503T to the system, refer to the section, "Connecting the 8503T to the System".
- 8 Snap the 1-foot line cord into the "LINE" jack in the back of the 8503T.
- 9 Pass the 1-foot line cord through the channel, as shown in **Figure 9**.



FIGURE 9 Line Cord Routing for Wall Mount

- 10 Snap one end of the coiled cord into the handset jack (marked with the handset symbol) on the bottom of the voice terminal, as shown in

Figure 9. Thread the cord into the channel leading to the side edge of the voice terminal; the handset cord will then lead off the side of the 8503T.

WARNING: Do **not** insert the handset cord into the adjunct jack. It will cause equipment damage.

- 11 Snap the 1-foot line cord into the wall-jack.
- 12 Place the base of the voice terminal on the wall-jack mounting studs, and pull downward until it is secure, as shown in **Figure 10**.



FIGURE 10 Placing the Voice Terminal onto the Wall Jack Mounting Studs

- 13 Snap the free end of the handset cord into the handset and place the handset in the cradle. Lift the handset and listen for the dial tone.

NOTE: The handset hook that you repositioned will hold the handset in place.

NOTE: Another way to mount the 8503T voice terminal on the wall is to use the existing 7-foot line cord and wall mount plate. The procedure for this configuration is as follows: plug the 7-foot line cord into the line jack in the back of the 8503T, route the 7-foot line cord to the bottom of the set, mount the 8503T on the wall mount plate, and plug the other end of the line cord into the line jack (on the floor).

ATTACHING ADJUNCT EQUIPMENT

If you are installing a speakerphone (models AT&T S101A, S201A, or QUORUM® CS201A), a headset adapter (model AT&T 500A), or other adjunct that may be offered, follow these steps to connect the adjunct equipment to your voice terminal.

- 1 Place the voice terminal face down on a flat surface.
- 2 Snap the adjunct cord into the "ADJUNCT" jack until you hear a click. See **Figure 3** for location of the adjunct jack.
- 3 Refer to the "Desktop Installation" section for instructions on routing the adjunct cord through the channel.
- 4 Connect the free end of the adjunct cord to your speakerphone or headset adapter.

NOTE: Refer to the adjunct's installation documentation for its power requirements.

Technical Description

Physical Dimension and Weight

The 8503T voice terminal is convertible for either desk or wall mounting.

The desk mounted voice terminal measures

- 7.8 inches (19.8 cm) wide
- 9.5 inches (24.1 cm) long
- 5.3 inches (13.4 cm) high (with handset)
- 2.57 lbs (1,17 kg)

The wall mounted voice terminal measures

- 7.8 inches (19.8 cm) wide
- 9.5 inches (24.1 cm) long
- 4.4 inches (11.2 cm) high (with handset)

Power Requirements

The 8503T voice terminal requires phantom power or auxiliary power; either is selected by setting a pair of jumpers. If phantom power is used, less than 1 Watt of power is drawn from the switch to support a normal operating mode.

WARNING: If auxiliary power is selected, use only a nominal 40 or 48 Vdc, UL-Listed Communications Circuit Power source.

Environmental Requirements

The 8503T can operate in temperatures ranging from 40 to 120 degrees F (4 to 48 degrees C) and relative humidity ranging from 5 to 95 percent.