

Spectrum Plus™ Series Telephone User's Guide

SINGLE LINE CALLER ID
SPEAKERPHONE TELEPHONE
MODEL SP550

CAUTION!

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninstalled telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.

Introduction

Congratulations on the purchase of your TeleMatrix Spectrum PLUS™ model SP550 Caller ID telephone. The Spectrum PLUS™ SP550 includes advanced features that are suitable in today's business environment. TeleMatrix designed the Spectrum PLUS™ SP550 to be simple to install and easy to use.

Your Spectrum PLUS™ SP550 telephone is a precision electronic device that requires minimum maintenance. Please be sure to read this user's guide to become familiar with the wiring and functionality of this product.

Compliance and Safety

As specified by FCC regulation, we are required to inform you of specific governmental and compliance regulatory requirements, safety notices, safety instructions and other informative information. TeleMatrix, Inc. provides this information in a separate manual. We pack the separate Compliance and Safety Manual within each outer box or product box when shipped.

Prior to reading this operation manual and prior to setting up your telephone, please refer to the Compliance and Safety Manual.

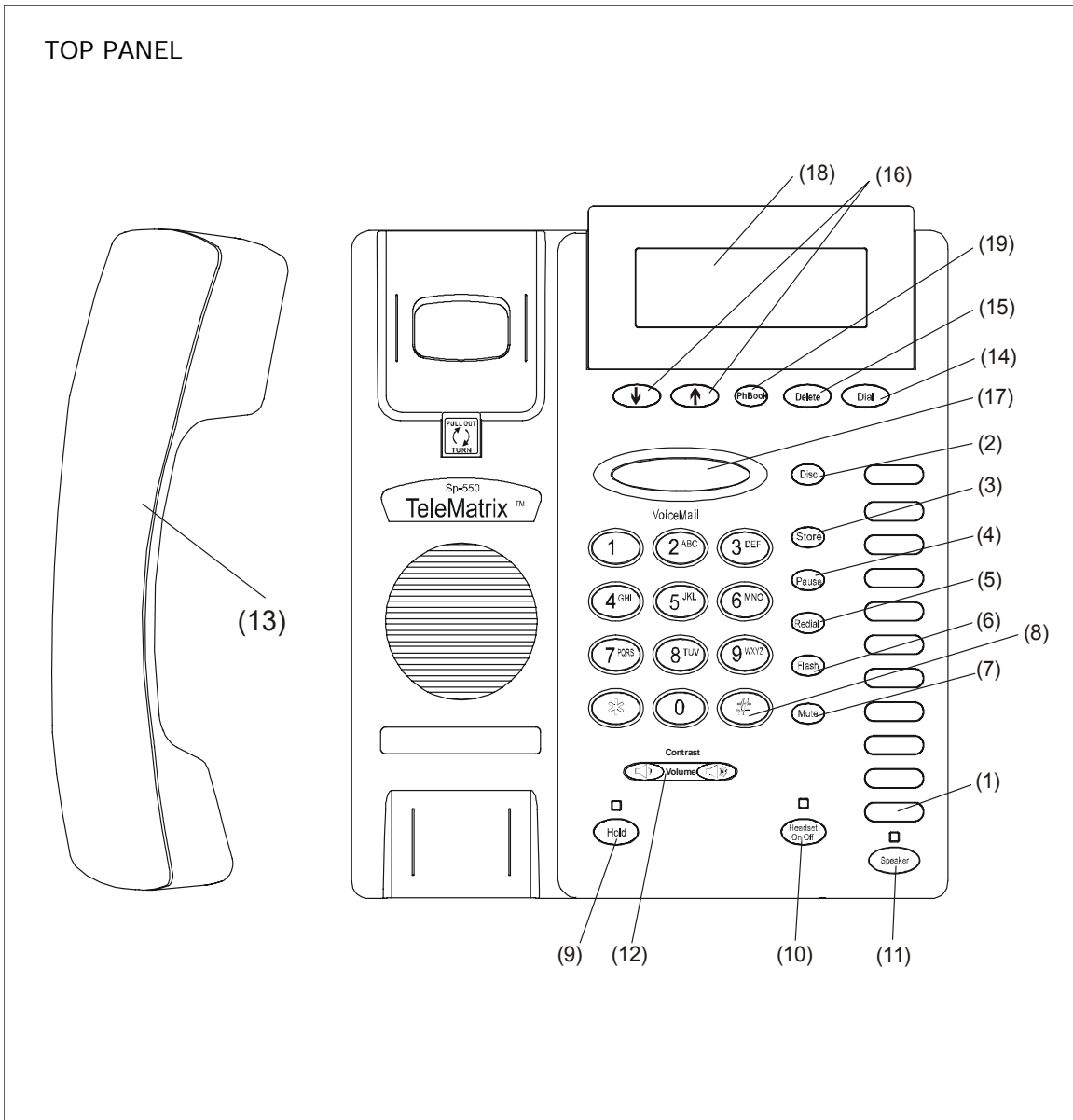
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Features

- One Line Operation
- SteelTrap™ Memory Technology (No Batteries Required)
- FreeSpeech™ Talk Feature: Allows Free Toggle between Handset, Headset and Speakerphone.
- Administrator Programming (Fixed): Dialing Access Number, Local Area Code Recognition, Live Keypad Dialing, Restrict 1+ Toll Restriction, Pause Timing, Flash Timing, Voice Mail Access including Secure Password Dialing, CID Records Log
- User Programming (Variable): Manual Date and Time, Multiple Language Options, Ring Volume, Ring Tone Adjustment, Speed Dial Memory
- Large, Contrast Adjustable, Backlit LCD Display Shows:
 - 100 Memory Phonebook with Auto Entry from 100 Scrolling Caller ID Call Records
 - Programmable Date & Time
 - Edit Capable Name and Number
 - Number of New Messages and Total Messages
 - Dialing Verification
 - Elapsed Call Timer
 - Functional Icons
- Type II Caller ID (Caller ID with Call Waiting)
- 100 Name and Number Call Log with Editing, Scrolling, Call Back and Delete
- 100 Name and Number Edit Capable Phonebook
- Visual Message Waiting Indication* – Auto Detection for SDT, FSK, NEON; LED uses switch.
- TouchLite™ One Touch Message Retrieval Key
- 2-Way Speakerphone (Half Duplex)
- Headset Port with ON/OFF Switch (built-in Amplifier)
- Microphone Mute
- Eleven (11) Speed Dial Keys
- Electronic Hold with LED Indicator (Line Hold or System Hold)
- Audible Ring Tone (4 selections)
- Speaker, Headset, and Ringer Volume Control (8 selections including OFF)
- Convenient Data Port
- ADA Compliant Handset with 8-step Volume Control
- Disconnect Key to Activate New Call
- Last Number Redial
- Programmable Flash Key
- Programmable Pause Key
- Wall Mount or Desktop Placement

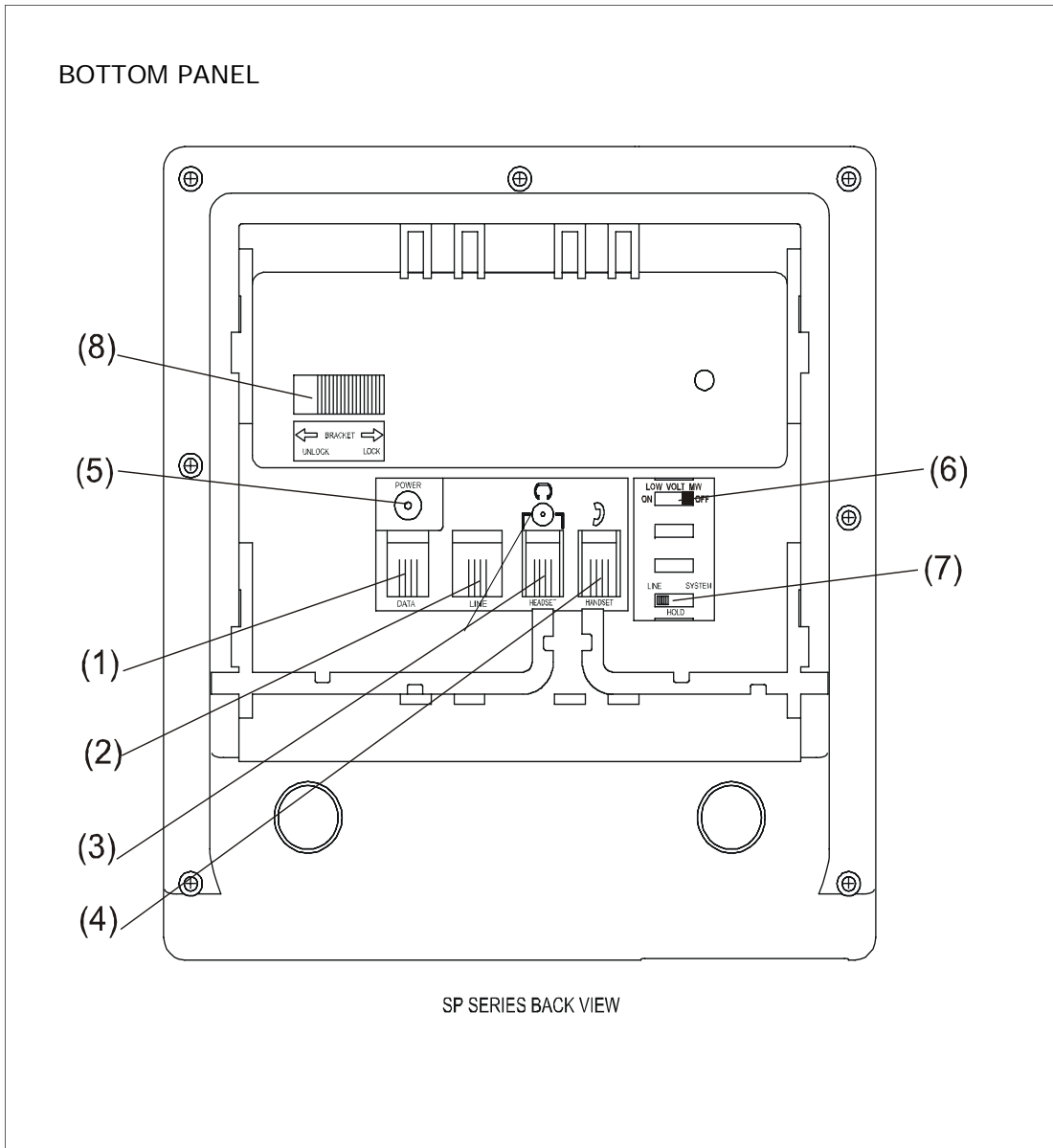
Controls



Definition of Controls

1. Speed Dial Feature Keys..... Eleven (11) one-touch keys used for speed dialing.
2. Disconnect Key Used to disconnect the line or place a new call.
3. Store Key..... Used to program user features.
4. Pause Key Used to place a timing delay when dialing.
5. Redial Key Redials the last number dialed.
6. Flash Key Provides a timed line break.
7. Mute Key Disables the handset and speaker phone microphones.
8. Numeric Dial Pad Used for dialing.
9. Hold Key Lighted key used for placing callers on hold.
10. Headset ON/OFF Key Lighted key used to turn the headset ON or OFF.
11. Speaker Key Used to turn the speakerphone ON or OFF.
12. Volume Bar Adjusts the loudness of the handset receiver, the headset, and/or the speaker.
13. Handset Hearing-aid compatible handset.
14. Dial Key Used to automatically dial the number displayed on the LCD.
15. Delete Key Deletes stored Caller ID records and Phonebook (PhBook) records.
16. Up and Down Scroll Key Used to scroll Caller ID and Phonebook (PhBook) records.
17. TouchLite™ Key..... Message Waiting Lamp (LED indicator) that blinks to indicate a new message in the user's voice mail box (user must be subscribed to a messaging system).
18. LCD Display Large adjustable back-lit display that shows Caller ID, number of calls received, date and time, and call log.
19. Phonebook (PhBook) Key Used to access names and numbers in the Phonebook (PhBook) directory.

Controls



Definition of Controls

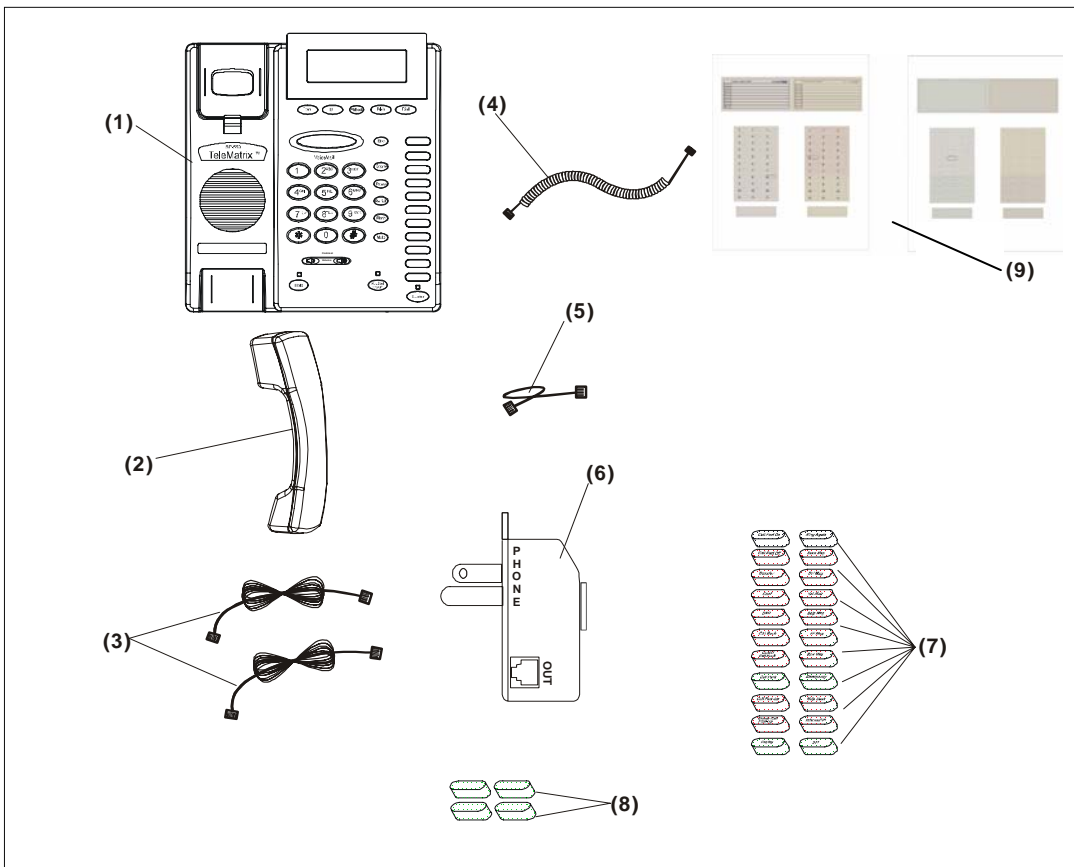
- 1 Data Port Convenient port to connect a computer, modem, fax or answering device.
- 2 Line Jack Modular receptacle for connecting the line cord.
3. Headset Jacks Convenient RJ port or 2.5mm coaxial port used to connect an optional headset.
- 4 Handset Jack Connection for handset coil cord.
5. Power Adapter Receptacle For optional coaxial power adapter.
- 6 Low Voltage MW Switch Used to select LED Message Waiting On or OFF.
- 7 Hold Key Switch Used to select standard line hold or programmable system hold.
- 8 Elevation Stand Lock Used to "lock" the elevation stand.

Parts List

Parts Check List

The following parts are included with the Spectrum PLUS™ SP550:

1. Base Unit
2. Handset
3. Two (2) 15-foot Modular telephone line cords.
4. 10-foot Modular coiled handset cord.
5. 6-inch Modular wall mount line cord.
6. Power Adapter.
7. Twenty-two (22) Speed Dial Preprinted Keycaps
8. Four (4) Additional Clear Keycaps
9. Two (2) Index Sheets



NOTE: Spectrum PLUS™ Line Cords are 6-Pin 6-Conductor Line cords (6P6C line cord). Replacement Line Cords must be same.

Installation

Caution

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninstalled telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.

Power Outlet Configuration

The Spectrum PLUS™ Series telephone requires external power from a standard 120V outlet (60Hz).

IMPORTANT!

The telephone will not function if the line cord connections are not correct. Be sure that the telephone line cord connections are not reversed ("LINE"/"PHONE"). Attach the line cords to the power adapter and the wall before connecting to the telephone. Spectrum PLUS™ Line Cords are 6-Pin 6-Conductor Line cords (6P6C line cord) . Replacement Line Cords must be same.

Installation

120V AC Outlet Recovery Power Adapter (provided)

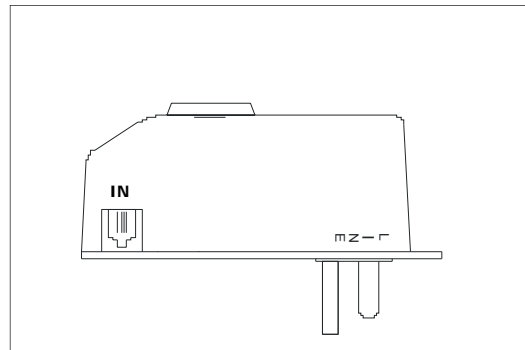
The 120 VOLT AC OUTLET RECOVERY POWER ADAPTER is an featured TeleMatrix product. It provides both the telephone lines and the power source in one cable (6P6C line cord) and is designed to recover the use of the power outlet.

Connector Configuration

The 120 Volt Outlet Recovery Power Adapter has two (2) modular jacks. One jack is labeled "LINE" and the other jack is labeled "PHONE". These jacks allow for a fully modular installation.

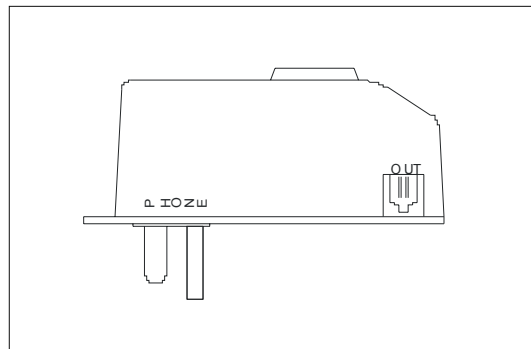
Power Adapter "LINE" Connection

The power adapter "LINE" connection is used to connect the telephone line from the wall jack to the power adapter. Using one of the 15-foot modular telephone line cords, connect one end of the cord to the RJ14 telephone jack on the wall or base board. The remaining end of the cord plugs into the "LINE" side of the power adapter.



Power Adapter "PHONE" Connection

The power adapter "PHONE" connection is used to provide both the telephone lines and the power source to the telephone. Using one of the 15-foot modular telephone line cords, plug one end of the line cord into the back of the telephone. Plug the remaining end to the power adapter jack labeled "PHONE".

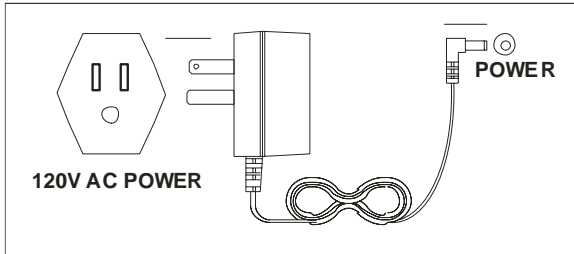


Troubleshooting Note: If there is no power to the telephone after connecting the line cords, check to see if the line cords are inserted on the opposite sides of the adapter.

Installation

Installing The Wall Power Adapter (Optional Component)

This component is best used when wall mounting the telephone. To install, simply plug the power adapter into a standard 120V AC power outlet. A mounting hole is provided to secure the power pack to the AC wall outlet. Plug the AC power pack directly into the wall outlet and then plug the coaxial connector into the receptacle marked "POWER" located on the back of the telephone.

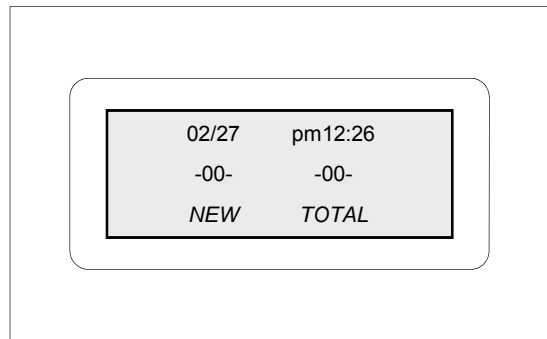


ORDER SEPERATELY

Completing the Power Installation

If the installation is correct, the information shown at the right will be displayed on the LCD.

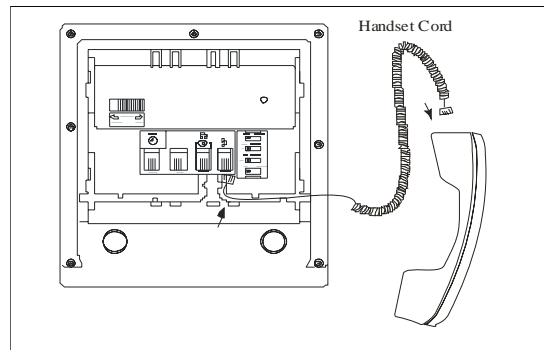
If the LCD does not display words and numbers, check your power connections.



Installation

Connecting the Handset Cord

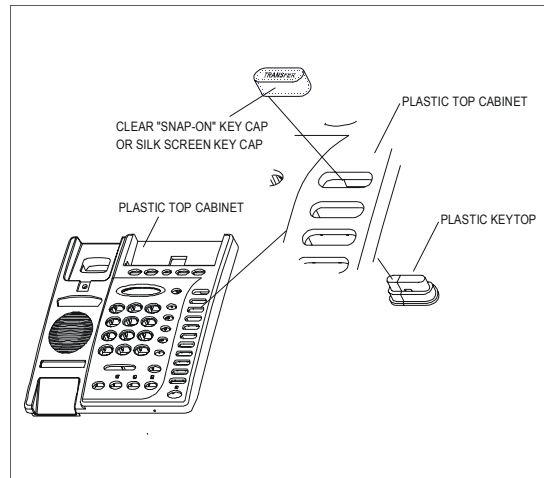
A 10-foot modular coil handset cord is provided. (*Be sure that the wall/desk elevation stand has not been attached*). To install the cord, simply plug the *short* end of the handset cord into the modular jack on the handset. The *long* end of the handset cord plugs into the jack labeled "Handset" located on the bottom of the Spectrum PLUS™ base unit. Place the line cord into the handset coil cord channel located directly below the jack.



Installing the Keycaps

Twenty-two (22) preprinted named feature keycaps are provided to identify the speed dial key.

There are eleven (11) clear keycaps already installed. To install preprinted keys, remove the clear keycap by simply pulling up. Replace with the preprinted keycaps or place hand written paper index sheets under a clear keycap. Program each speed dial key for the specific function of the key.



NOTE: For speed dial programming instructions, see the section on "Programming Procedure For Spectrum PLUS™ Speed Dial Features" in this manual.

There are four (4) additional clear keycaps and two (2) index sheets provided as spares. Use these for your own personal speed dial identities. Write the speed dial name on the blank speed dial index cards and insert into the blank keycaps. Place the keycap on the correct memory speed dial location. (see index sheets provided in box).

The twenty-two preprinted keycap names are below:

Call Fwd On	Call Back	Paging	Skip Msg	Information
Call Fwd Off	Cancel Call Back	Ring Again	FF Msg	911
Transfer	Call Park	Save Msg	Rew Msg	
Conf	Call Pick-up	Del Msg	Emergency	
DND	Group Call Pick-up	Rpt Msg	Help Desk	

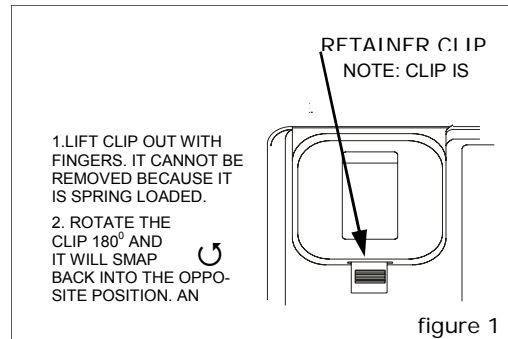
Installation

Wall Mounting the Spectrum PLUS™ Telephone

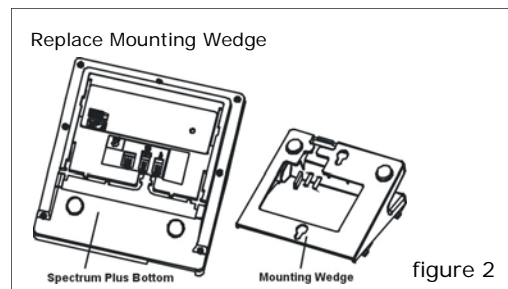
The Spectrum PLUS™ was designed to be conveniently wall mounted without requiring additional hardware.

Follow these easy steps:

1. The handset retaining clip must be in the correct position to secure the handset into the handset cradle. Engage the clip with your fingers and pull the clip forward (towards you), rotate the clip 180° and snap the clip back into place (figure 1). The retaining clip cannot be removed.

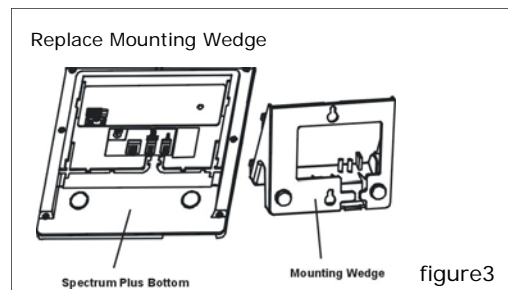


2. The Spectrum PLUS™ has provisions for a mounting wedge that must be correctly positioned. This wedge allows the telephone to be viewed at a correct angle when the phone is wall mounted. Remove the wedge from the phone base (figure 2).

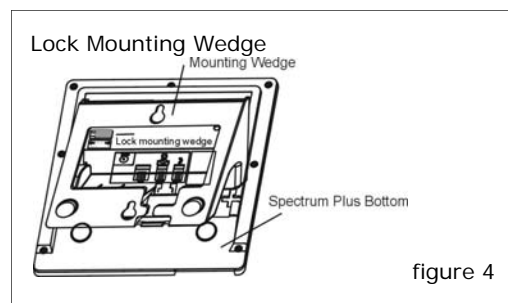


3. Secure the line cord, coil cord and any wiring in place prior to installing the wall mount wedge. The wall mount base has extra large wiring channels and strain relief poles for containing the wires in a neat and orderly way. Wrap the wires around the strain relief poles and then secure the wires through the channel.

4. To wall mount, place the narrow edge at the top edge of the phone base and slide the wedge upward into place (figure 3).



5. Lock the wall mount into position by sliding the locking button to the right (figure 4).



Note: A 6-inch line cord is provided for when the telephone is to be wall mounted. Connect one end of the line cord to the phone jack and the other end to the wall jack. Be sure to connect the power cord and line cords before placing mounting wedge on the bottom base. An optional coaxial power supply can be used in place of the supplied power supply. See your local distributor for information.

Desk Mounting

To install the wedge for desk mounting, be sure the lock mechanism is positioned to the left clear of the locking arm. Place the wedge in the slots, wide end toward top of phone base unit, and slide the wedge upward into position. Lock the wedge into place.

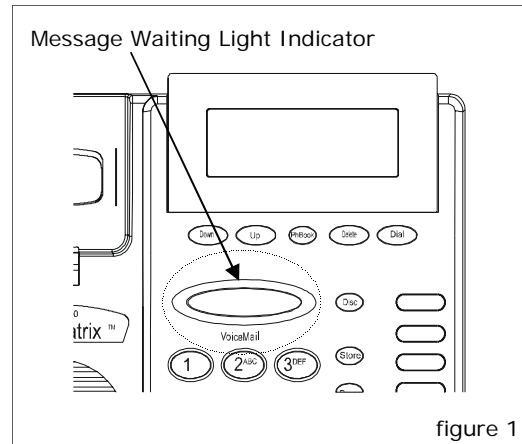
Installation

Message Waiting Light Indicator

The Spectrum PLUS™ telephone has a Message Waiting (MW) Light Indicator (figure 1). The indicator will blink to indicate that a new message is in the user's voice mailbox. The Spectrum PLUS™ supports the following telephone or PBX supplied message waiting signals:

1. Telephone Company VMWI Service* (FSK signal compatible, subscription to local telephone company is required).
2. Or, Audible Stutter Dial Tone (SDT) signals provided by local telephone company.
3. Or, 90-Volt NEON message waiting light indicator signal provided by a PBX.
4. Low Voltage LED message waiting light indicator light signal is provided by a PBX

The PBX system or telephone service provider has to activate the voice mail feature for the light to illuminate and work properly. Be sure that your telephone service provider or PBX system has the compatible messaging service available in your area or facility.



NOTE: The Spectrum PLUS™ telephone automatically reads the Message Waiting (MW) signals supplied by your service provider. The LED signal supplied by a PBX must have the LED Voltage switch which is located on the back of the telephone in the correct position to operate the LED. See the next page for instructions.

Feature Note: Message ON/OFF Notification.

Use this feature when alerting another that a saved message is in voice mail for that person or use this feature when you simply want to turn the light off.

Be Aware: If there is a new incoming message and the telephone company continues to send a new signal this light will re-activate. This will occur only when there is a new voice mail that has not been heard.

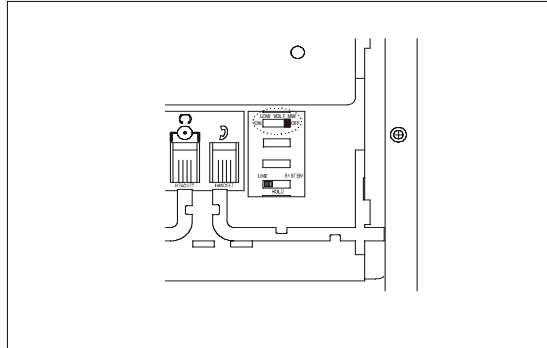
How To Use: When on-hook, Press the "*" key for 3 to 5 seconds and the Message LED will automatically turn on. At any time press "*" key for 3 to 5 seconds, Message LED will turn off.

***Definition:** VMWI is Visual Message Waiting Indication. This option requires a subscription to your local telephone service provider for TouchLite™ to activate.

Switch Settings

Low Voltage LED Switch

A low voltage LED switch is located on the bottom of the phone. The switch options are ON or OFF. The factory default is OFF.

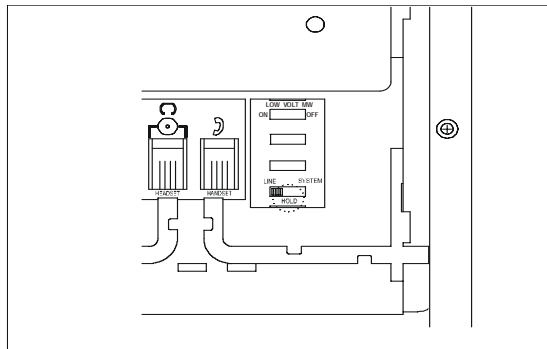


System Hold Feature Option Switch

A feature switch for different hold functions is located on the bottom of the phone. The switch options are standard "LINE Hold" or programmable "System Hold".

The standard "Line Hold" allows for normal hold function operation. The programmable "System Hold"* feature is used for optional PBX system operations.

The switch default is set at the factory as standard "LINE Hold".



* Programming "System Hold" is an Administrator function. To program System Hold, follow the speed dial instructions in this manual. To store the dialing pattern, press the HOLD key in place of the memory location.

Programming

Programming Set Up Of the Spectrum PLUS™ Telephone

The Spectrum PLUS™ requires simple initial programming to set up the telephone. One program mode is designed for Administrator set up and one program mode is for User set up and use. Administrator programming features separate critical operating set up information from the user telephone functions.

ENTER ACCESS NO.	Set up pre-dialing number sequence, i.e. outside line.
ENTER AREA CODE	Set up local area code to recognize local incoming calls.
LIVE DIALPAD	Set up either using keypad dialing with automatic speaker activation, or using key pad dialing, pressing dial key to activate.
RESTRICT 1+	Long distance restriction. Restrict any outgoing number dialing that begins with a "1" .
FLASH TIME SET	Set up flash timing 100mS to 1000mS. Default 600mS.
PAUSE TIME SET	Set up pause timing 1.0mS to 5.0mS. Default 3.6mS.
VOICE MAIL NO.	Set up voice mail number. Add your PIN with seconds of wait time to get access to messages. PIN number characters will not be displayed.
CID RECORDS LOG SET	Set up CID record log TOTAL or EACH.

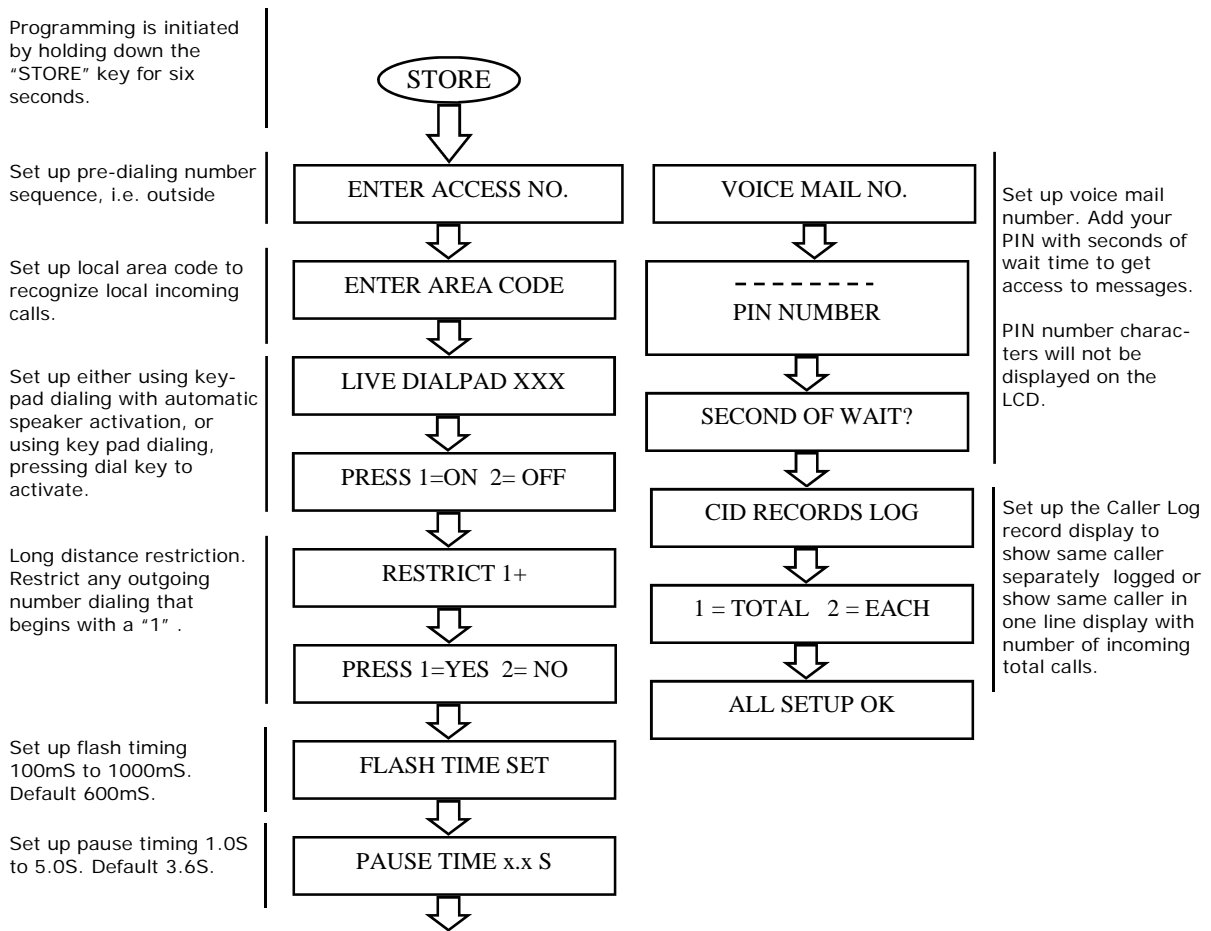
Programming

Programming Set Up Of the Spectrum PLUS™ Telephone

The Spectrum PLUS™ requires simple initial programming to set up the telephone. The program is designed for one Administrator and one or more users. Administrator programming features separate critical operating set up information from the user telephone functions.

The Administrator Quick Program Guide for the Spectrum PLUS™ Telephone

The Spectrum PLUS™ Quick Programming Guide is a summary list of set up options. Additional detailed instructions are provided in the manual.



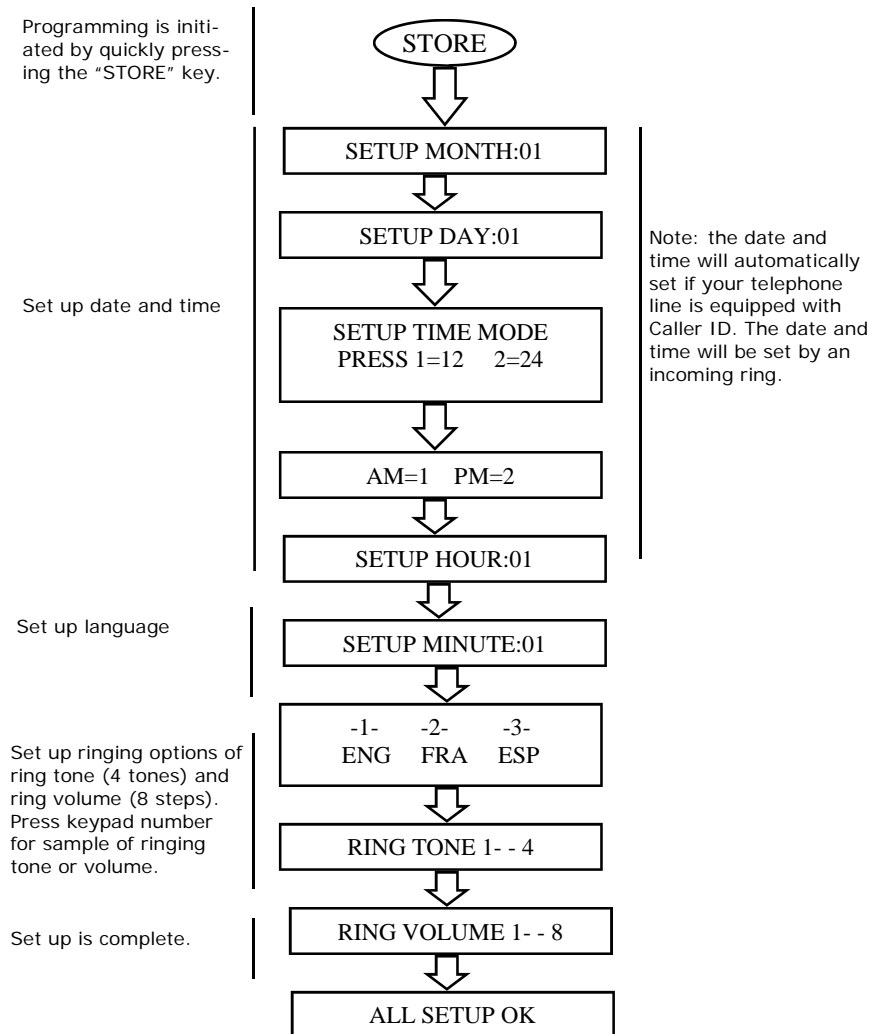
Programming

Administrator and User Set Up of the Spectrum PLUS™ Telephone

The Spectrum PLUS™ requires simple initial programming to set up the telephone. The program is designed for one Administrator and one or more users. Administrator programming features separate critical operating set up information from the user telephone functions.

The Users Quick Program Guide for the Spectrum PLUS™ Telephone

The Spectrum PLUS™ Quick Programming Guide is a summary list of set up options. Additional detailed instructions are provided in the manual.



Programming

Set up using keypad dialing with automatic speaker activation or using key pad dialing and pressing dial key to activate.

LIVE DIALPAD XXX

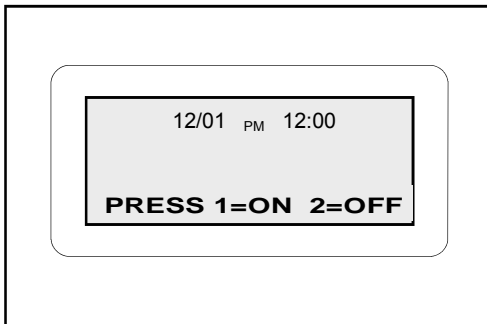
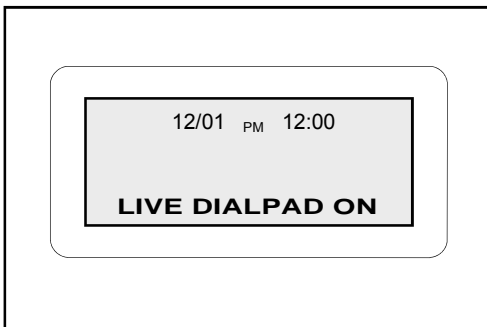


PRESS 1=ON 2= OFF

LIVE DIALPAD Feature (Administrator)

This feature sets up the telephone dialing pad method.

Display indicates condition of ON or OFF, then next screen appears.



When LIVE DIALPAD is **OFF**, and the handset is ON HOOK, the user enters a number on the keypad and then must press the **"DIAL"** key to activate dial tone.

When LIVE DIALPAD is **ON**, and the handset is ON HOOK, the dial tone activates immediately upon pressing the keypad.

The handset can be lifted at any time to activate the receiver.

To enable or disable LIVE DIALPAD ON.

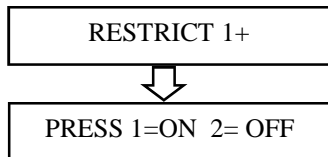
1. Press and hold the **"STORE"** key for 6-seconds.
2. Press **"STORE"** multiple times until the LCD displays "LIVE DIALPAD ON".
3. Press "1=ON" to enable, or "2=OFF" to disable.
4. To exit the program mode, press **"DISC"** or continue to the end of programming by pressing the **"STORE"** key multiple times until the display reads "All Setup OK".

Note: Programming can only be performed when the phone is on-hook

NOTE: The Live Dial Pad feature works only when the handset is ON HOOK, it does not work when the handset is OFF HOOK.

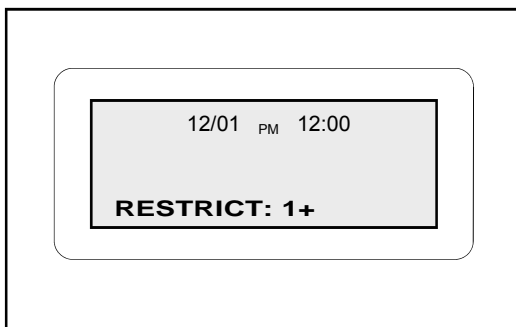
Programming

Long distance restriction.
Restrict any outgoing
number dialing that be-
gins with a "1" .



Restrict 1+ Feature (Administrator)

This feature sets up a restriction
when using long distance calling.



To enable RESTRICT 1+.

1. Press and hold the "**STORE**" key for 6-seconds.
2. Press "**STORE**" multiple times until the LCD displays "RESTRICT 1+".
3. The display will read " PRESS 1 = YES 2 = NO".
4. To enable restriction, press "1" on the keypad.
5. To disable restriction, press "2" on the keypad.
6. To exit the program mode, press "**DISC**" or continue to the end of programming by pressing the "**STORE**" key multiple times until the display reads "All Setup OK".

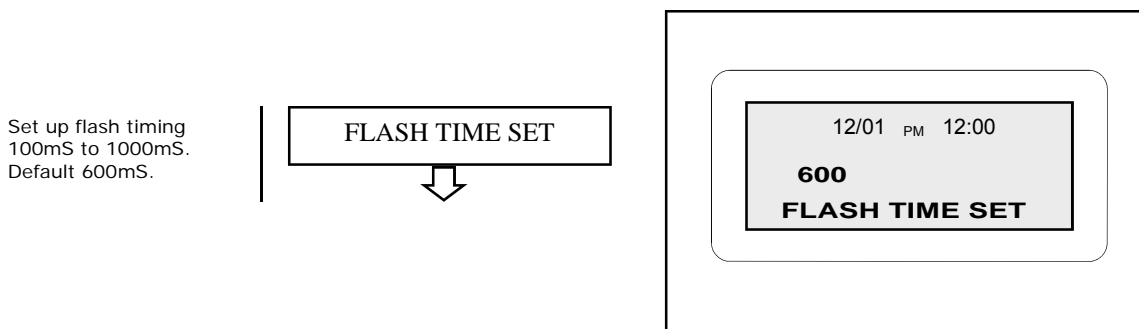
Note: Programming can only be performed when phone is on-hook.

Note: With 1+ Restrict Dialing, the user cannot dial any number beginning with a "1".

Programming

Programming Flash Timing into Memory (Administrator)

Flash Timing can be programmed into the Spectrum PLUS™ speed dial memory. This function allows for a timed line break in the sequence of the dialing patterns when using the speed dial keys. This function may be required for accessing line features provided by your telephone system or local telephone company. The flash timing options are 100 through 1000 milliseconds, programmable in 100mS increments.



Using A Flash When Dialing

To use a Flash when dialing, simply press the “**FLASH**” key at the appropriate point in the number sequence being dialed from the key pad.



NOTE: Each “Flash” function counts as 1-digit when stored into a speed dial memory location

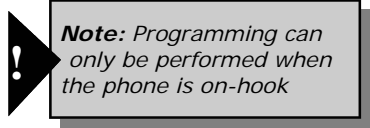
Programming

Programming Flash Timing (Administrator)

Flash timing can be programmed for different timing options listed below.

1. Press and hold the **"STORE"** key for 6-seconds to enter set up.
2. Press the **"STORE"** key multiple times until the LCD display reads "FLASH TIME SET".
3. Enter the flash timing to be stored into memory using the keypad by pressing the following keys on the keypad in the order shown. The keypad entry will be displayed on the LCD Screen.

For 100mS	press "1" "0" "0" on the keypad.
For 200mS	press "2" "0" "0" on the keypad.
For 300mS	press "3" "0" "0" on the keypad.
For 400mS	press "4" "0" "0" on the keypad.
For 500mS	press "5" "0" "0" on the keypad.
For 600mS	press "6" "0" "0" on the keypad.
For 700mS	press "7" "0" "0" on the keypad.
For 800mS	press "8" "0" "0" on the keypad.
For 900mS	press "9" "0" "0" on the keypad.
For 1000mS	press "1" "0" "0" "0" on the keypad.

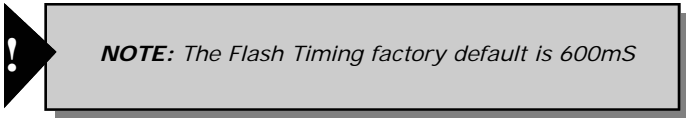


Note: Programming can only be performed when the phone is on-hook

4. To exit the program mode, press **"DISC"** or continue to the end of programming by pressing the **"STORE"** key multiple times until the display reads "All Setup OK".
5. To confirm the flash timing programmed in memory, repeat the Administrator programming sequence to see flash timing display.

Programming Example for 100mS

Press **"STORE"** for 6 seconds, Press **"STORE"** again until LCD reads "FLASH TIME SET". Enter digits "100" from the keypad. Press **"STORE"** to enter the timing into memory.



NOTE: The Flash Timing factory default is 600mS

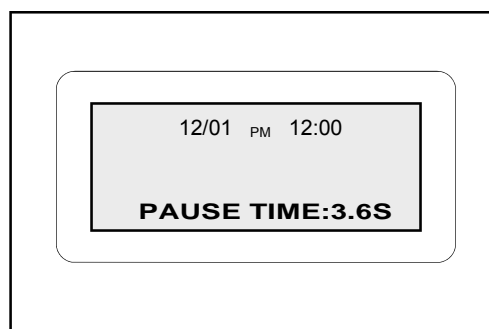
Programming

Programming Pause Timing (Administrator)

A Pause time between 1.0-seconds to 5.0-seconds can be programmed into memory. This function allows for a delayed timing for those systems requiring a different time delay and allows the user to delay the dialing pattern of a number. This function may be required for accessing line features provided by telephone provider or local telephone company. A speed dial number may need to pause during its dialing sequence to ensure proper connections.

Set up pause timing 1.0S
to 5.0S. Default 3.6S.

PAUSE TIME x.xS



Pause timing can be programmed for different timing options listed below.

1. Press and hold the **"STORE"** key for 6 seconds to enter set up.
2. Press the **"STORE"** key multiple times until the LCD display reads "PAUSE TIME:3.6S".
3. Enter the pause timing to be stored into memory using the keypad by pressing the following keys on the keypad in the order shown. The keypad entry will be displayed on the LCD Screen.

Examples:

For 2.0-seconds press "2" "0" on the keypad.

For 2.1-seconds press "2" "1" on the keypad.

For 3.2-seconds press "3" "2" on the keypad.

For 4.9-seconds press "4" "9" on the keypad.

4. Press the **"STORE"** key to enter the new pause timing value.
5. To exit the program mode, press **"DISC"** or continue to the end of programming by pressing the **"STORE"** key multiple times until the display reads "All Setup OK".



NOTE: If you require a pause time delay longer than the maximum setting of 5.0S, stack the pauses within the dialing pattern to achieve the longer timing.

Programming

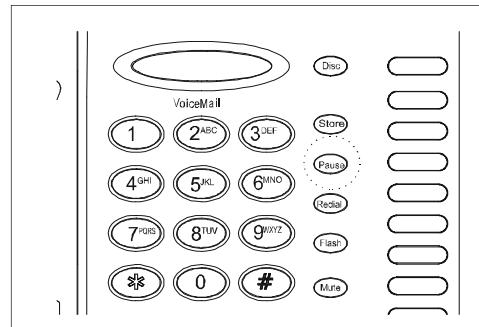
Programming a Pause into Speed Dial Memory (Administrator)

Pause(s) can be programmed into the speed dial memory. This function puts a delay the dialing pattern of a number when stored in memory. Multiple pauses can be programmed into speed dial for added pause time.

To Program A Timed Pause

1. To store a Pause into Speed Dial memory, simply press the **"PAUSE"** key in the numbering sequence when programming speed dial memory keys.

Also see Programming Speed Dialing in this manual.



NOTE: The default Pause timing is 3.6 Seconds. A multiple of Pauses can be programmed into speed dial memory to increase the delay.

Note: Programming can only be performed when the phone is on-hook

Using a Pause when Dialing

To use a Pause when dialing, simply press the **"PAUSE"** key at the appropriate point in the number sequence being dialed from the key pad.

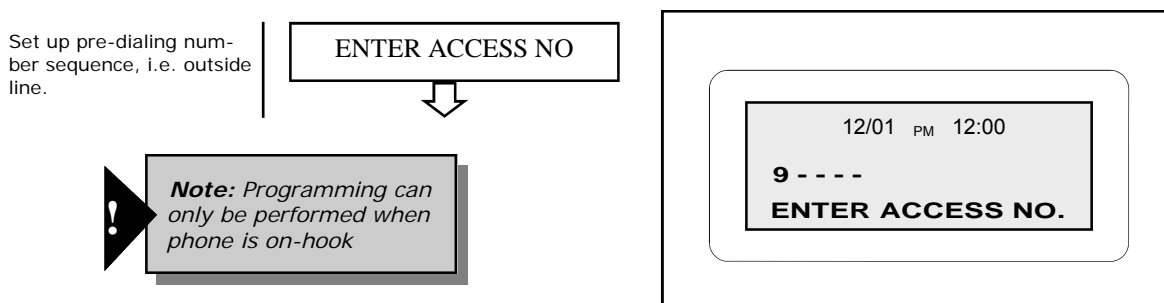
NOTE: Each "Pause" function counts as 1-digit when stored into a speed dial memory location..

Programming

Programming the Access Number into Memory (Administrator)

In some cases, a digit or digits are required to access an outside line (i.e. 9) . The Access Number can be programmed into the phone. This function allows the user to automatically dial number(s) that are required prior to dialing the displayed number.

- The number to be programmed is based on your specific area dialing requirements and may not be required.
- This option is not mandatory for the proper operation of the Caller ID display.



To Set Up The Access Number

1. Press and hold the **"STORE"** key for six seconds to enter programming.
2. Press **"STORE"** until the LCD display reads "ENTER ACCESS NUMBER".
3. Enter the desired number, for example, a "9".
4. Press the **"STORE"** key to enter the number into memory.

NOTE: There is no need to enter PAUSE. The Call Back operation automatically inserts a pause after the Access Code Number.

To Delete The Access Code

1. Press and hold the **"STORE"** key for six seconds to enter programming.
2. Press the **"STORE"** key until the LCD display reads "ENTER ACCESS NUMBER".
3. Press the **"DELETE"** key.
4. Press the **"STORE"** key again to continue.

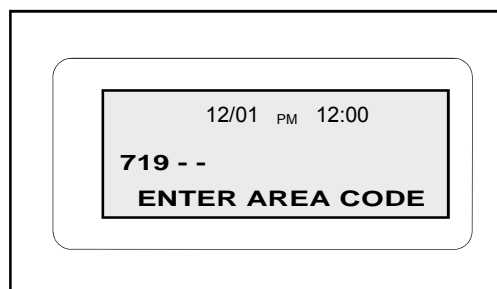
Programming

Programming the Area Code into Memory (Administrator)

An Area Code can be programmed into the phone memory. The Area Code is programmed into memory to allow the phone to recognize the local area code. When this number is programmed, the Area Code WILL NOT be dialed when calling back a number within the same local calling area.

Set up local area code to recognize local incoming calls.

ENTER AREA CODE



Programming the Area Code into Memory

1. Press and hold the **"STORE"** key for 6-seconds to enter programming.
2. Press the **"STORE"** key multiple times until **"ENTER AREA CODE"** is displayed.
3. Enter the area code number of the local area code using the numeric dial pad.
4. Press the **"STORE"** key to store the area code into memory.
5. To exit the program mode, press **"DISC"** or continue to the end of programming by pressing the **"STORE"** key multiple times until the display reads **"All Setup OK"**.

In some areas, the Area Code is required when placing a Local Call

In some areas, the local service provider will use the same area code for local calls. The following options are available.

Try each of the following scenarios and use the one with the best result.

1. Program the Area Code first, then place a local test call.
2. Delete the area code and do not program the Access Code. Place a local test call.
3. Program the Area Code into the Access Code location. Place a local test call.
4. Use the keypad to add additional numbers to the displayed number on the screen. Place a local test call.

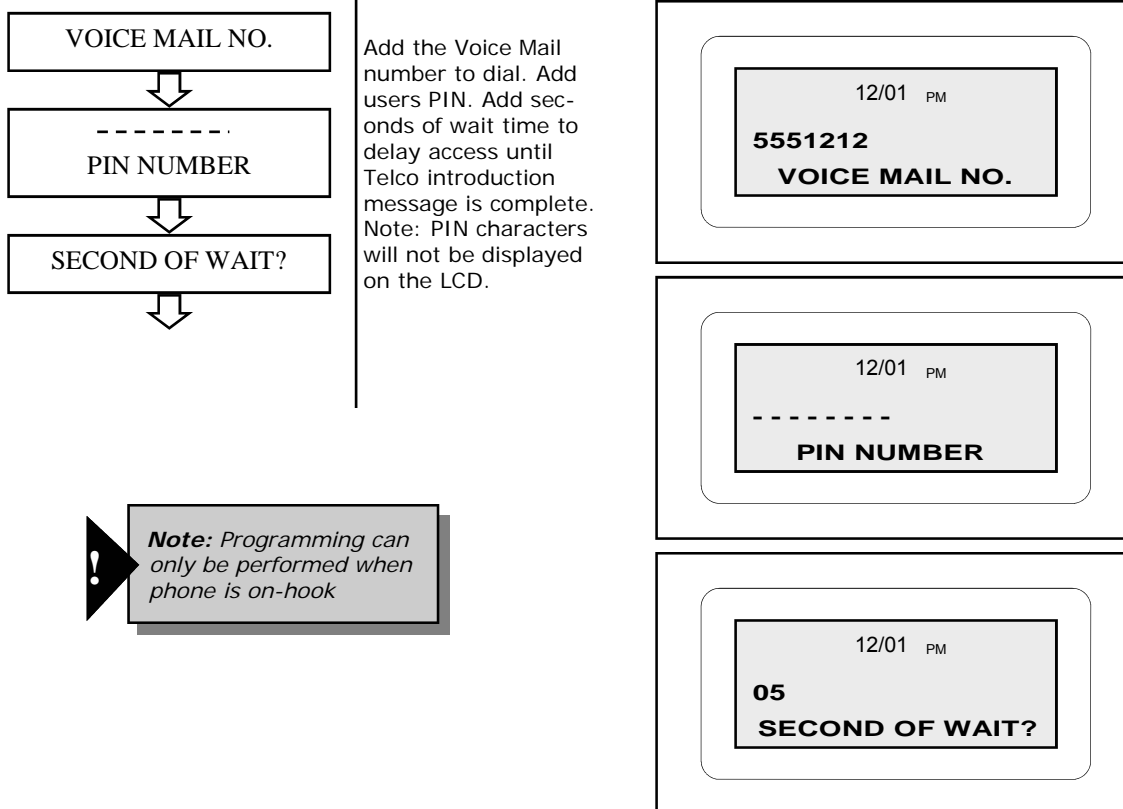


NOTE: Depending on your area and dialing pattern, you may obtain the best result by using both the access code and area code fields. If these sequences do not work, use the keypad entry as an option for your Call Back.

Programming

Programming Voice Mail (Administrator)

Voice Mail (VM) access numbers and their associated "Personal Identification Number" (PIN) can be programmed into phone memory when *Voice Mail* is activated. The feature allows the user to automatically obtain their voice mail using the Spectrum PLUS™ TouchLite^R speed dial key.



Programming

Programming Voice Mail (Administrator)

To program the Spectrum PLUS™ one touch **"MESSAGE WAITING"** speed dial key, follow these programming instructions.

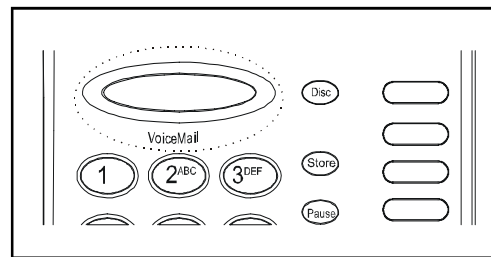
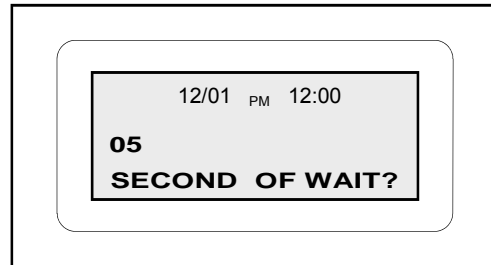
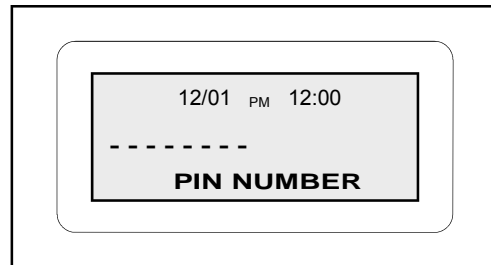
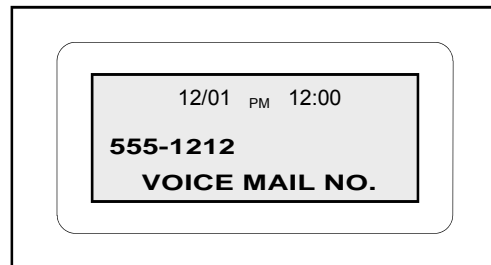
Programming Voice Mail Dialing

1. Press and hold the **"STORE"** key for 6-seconds to activate Administrator mode.
2. Press the **"STORE"** key multiple times until **"VOICE MAIL NO."** is displayed on the LCD screen.
3. Enter the voice mail number. The area code is not required if AREA CODE is programmed into memory.
4. Press the **"STORE"** key to store the voice mail number into the VOICE MAIL memory key.
5. Enter the **"PIN NUMBER"**, up to 8-digits. The PIN characters will not be displayed.
6. Enter the **"SECONDS OF WAIT?"**, up to 99 seconds.
7. To exit the program mode, press **"DISC"** or continue to the end of programming by pressing the **"STORE"** key multiple times until the display reads **"All Setup OK"**.

Test the program

After programming voice mail, test the program by placing a voice mail into the voice mail messaging system. Wait for the Voice Mail button to illuminate. Then, press the key located on the base unit (when in OFF HOOK position) and it will dial the pre-programmed numbering sequence. The **"SECONDS OF WAIT"** may need to be increased if the voice mail was not retrieved.

Note: This feature must be turned on by your local service provider.

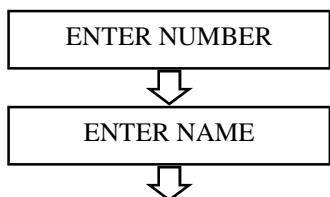


Programming

Programming Procedure for Spectrum PLUS™ Speed Dial Features (Administrator) (Manual Entry of Characters)

The Spectrum PLUS™ Telephone has eleven (11) one-touch speed dial locations that are convenient for dialing frequently used telephone numbers. This feature is under Administrative control so user changes do not occur.

- Speed dial programming must be done with the telephone plugged into the telephone line and power adapter.
- Programming can be performed with the telephone on-hook only.
- A maximum of 32-digits can be entered into ENTER NUMBER and 32-characters into ENTER NAME.



Set up speed dial memory locations with name and number entries. Check verifies correct entry.

To Program Speed Dial Locations

1. Press and hold the **“STORE”** key quickly. The words **“SET UP MONTH: 01”** will appear (figure 1).
2. Next, press the **speed dial location key** where the desired location will be. The display will read **“Mxx NO CONTENT”**. If the display shows a record, then there is a stored name and number in that location (figure 2).
3. Press the **“STORE”** key again and the display will read **“ENTER NUMBER”** (figure 3).
4. Using the dial pad, enter the number. Note that the local area code is not required if AREA CODE is pre-programmed into memory.
5. After entering the number, press the **“STORE”** key. The display will read **“ENTER NAME”** (figure 4).
6. Using the keypad, enter the name associated with the number being programmed and include the Flash, and/or Pause, when needed.
7. Press the **“STORE”** key to store the entry.
8. Program other speed dial locations, repeat 2 to 7.
9. To exit the program mode, press **“DISC”**.

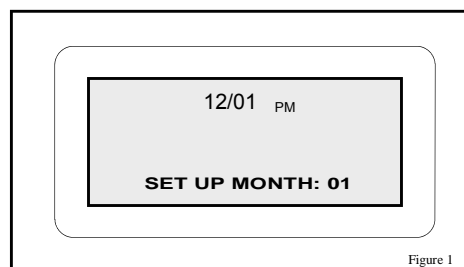


Figure 1

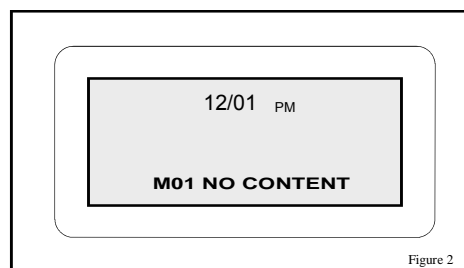


Figure 2

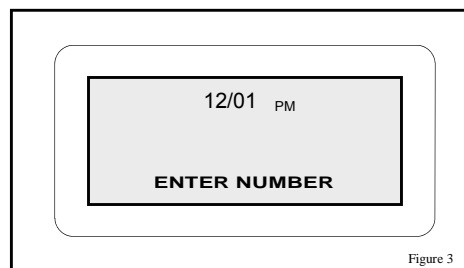


Figure 3

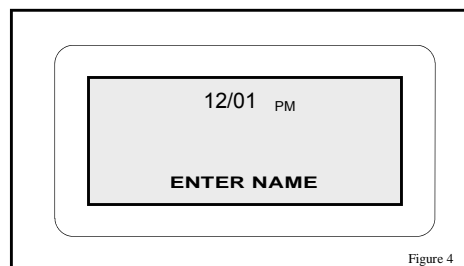


Figure 4

Programming

To Verify Speed Dial Programming (Administrator)

The contents of each speed dial location can be verified or “checked” while the Spectrum PLUS™ unit is in the programming mode.

- Memory verification is accomplished with the Spectrum PLUS™ on-hook.

To Verify Speed Dial Locations

1. Press and hold the “**STORE**” key quickly. The words “SET UP MONTH: 01” will appear (figure 1).
2. Next, press the speed dial location key to verify. The display will show the memory location, the name, and the number in memory.
3. To check other memory locations, simply press other speed dial locations.
4. To exit the program mode, press “**DISC**”.



Note: Programming can only be performed when phone is on-hook



NOTE: Blank index card sheets are provided for convenience. Complete and place the index card into the speed dial memory key.



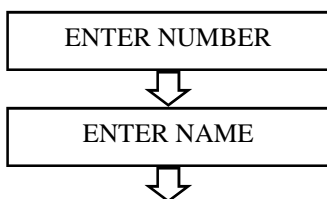
NOTE: A Caller ID record cannot be stored into the speed dial key memory location. Entries can only be made manually by the Administrator programming feature. This is for purposes of security and standardization of speed dial locations.

Programming

Phonebook Programming (Manual Programming of Records)

The Spectrum PLUS™ Telephone Phonebook Feature allows for 100 name and number records for frequently dialed calls. This section describes the Phonebook programming.

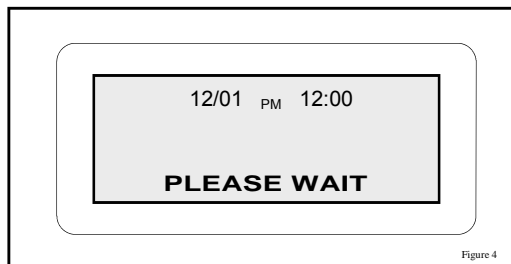
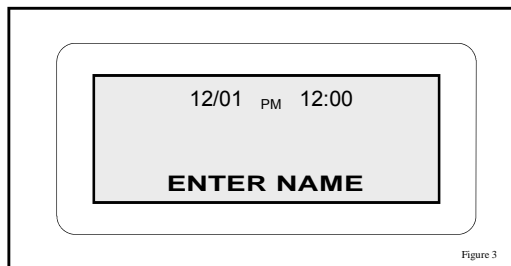
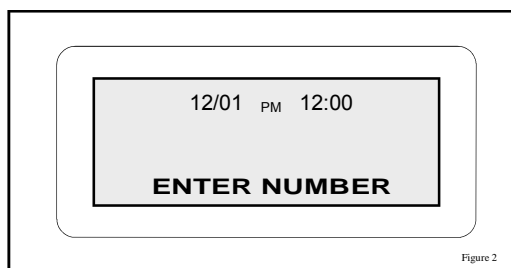
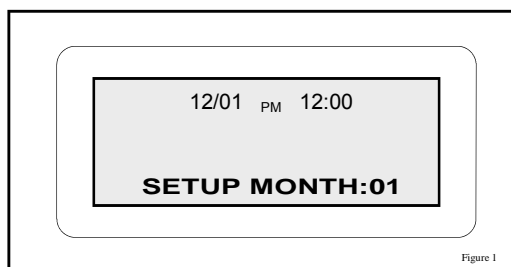
- Programming must be done with the power adapter plugged into the wall.
- Programming can only be performed with the telephone on-hook.
- A maximum of 32-digits can be entered into ENTER NUMBER and 12-characters into ENTER NAME.



Set up speed dial memory locations with name and number entries. Check verifies correct entry.

To Program a Phonebook Record Manually

1. Press the **"STORE"** key quickly. The words "SETUP MONTH:01" will appear (figure 1).
2. Press the **"PHONEBOOK"** key. The words "ENTER NUMBER." will appear (figure 2).
3. Next, press the numbers on the dial pad to enter the number pattern to be stored. It is recommended to enter the local area code in the numbering sequence. Local area code dialing will not occur when the AREA CODE is programmed into setup. Using the keypad, enter the name associated with the number being programmed and include the Flash, and/or Pause, when needed.
4. Press the **"STORE"** key again and the display will read "ENTER NAME" (figure 3).
5. Using the dial pad, enter the name of the person to be stored. See the chart on the next page for character entries.
6. After entering the name, press the **"STORE"** key. The display will read "PLEASE WAIT" (figure 4). The memory function is now storing the entry. If the record is already in memory, the display will read "REPEAT PHBOOK".
7. To store another record manually, repeat line item 1 through 6. .
8. To exit the program mode without saving, press the **"DISC"** key.



Programming

Phonebook Programming (Automatic Programming of Records)

The Spectrum PLUS™ Telephone Phonebook Feature allows for 100 name and number records for frequently dialed calls. This section describes the Phonebook programming using existing Caller ID records that are in the Caller ID record storage.

- Programming must be done with the power adapter plugged into the wall.
- Programming can be performed with the telephone on-hook.
- A maximum of 32-digits can be entered into ENTER NUMBER and 12-characters into ENTER NAME.
- You must be subscribed to a telephone service providers Message Waiting System to receive Caller ID records.

Transferring Caller Log Records into Phonebook Memory

1. Be sure the LCD display is in the beginning position and no feature is in use. A call record must be stored into the caller log prior to using this feature.
2. Press the **"UP"** or **"DOWN"** key to locate the incoming caller name and number from the caller log.
3. To activate EDIT MODE, press any key on the keypad. Use the **"DELETE"** key to delete a digit or use the keypad to add a digit.
4. Press the **"PhBook"** key to store the number. The LCD will display "PLEASE WAIT" and will add the record into memory. If the record is already in memory, the display will read "REPEAT PHBOOK".
5. Press **"DISC"** to exit or **"STORE"** to continue programming.

Programming

Manual Entry From Keypad (Guide)

Use the following chart to add characters when programming into memory.

Press Keypad:	Once	Twice	Three Times	Four Times	Five Times	Six Times
Key 1	1					
Key 2	A	B	C	2		
Key 3	D	E	F	3		
Key 4	G	H	I	4		
Key 5	J	K	L	5		
Key 6	M	N	O	6		
Key 7	P	Q	R	S	7	
Key 8	T	U	V	8		
Key 9	W	X	Y	Z	9	
Key 0	0					
Key *	adds space	=	*			
Key #	.	:	—	()	#

Headset

Headset Feature

The Spectrum PLUS™ is equipped with a separate port for plugging in an optional headset. The port is located on the bottom of the base unit. The TeleMatrix **FreeSpeech™ Talk Feature** is a unique TeleMatrix feature that allows the user the freedom to “toggle” between the headset, handset and speakerphone modes during a conversation.

When the “**HEADSET ON/OFF**” key is ON, pressing the “**SPEAKER**” key will activate the speaker and disconnect the headset line automatically. This feature avoids having to use the hookswitch/handset to process telephone calls while in headset mode.

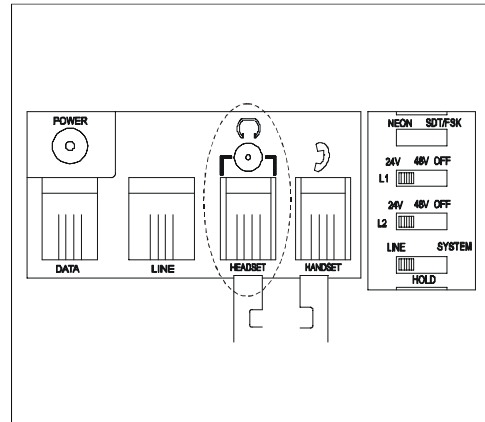
The headset can be purchased from a TeleMatrix distributor. There are many varieties of headset models available.

Installing a Headset

The headset port is located on the bottom side of the telephone base.

Plug the modular end of the headset cord into the modular port of the telephone labeled “HEADSET” (figure 1).

Press the “HEADSET ON/OFF” key to activate the headset. The LED above the key will illuminate to indicate that the headset is on (figure 2).



NOTE: An external amplifier is NOT recommended. The phone has a built in amplifier.

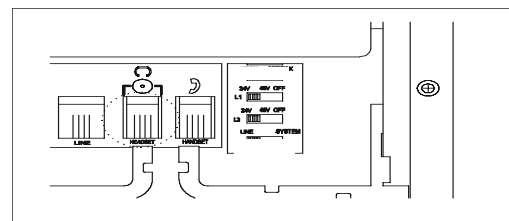


Figure 1

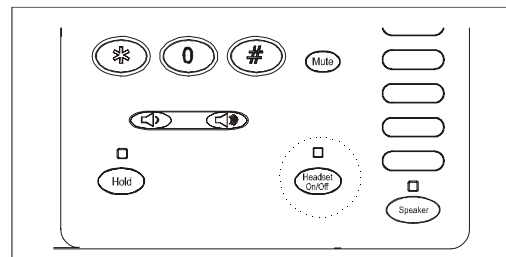


Figure 2

Headset

Using A Headset

The **"HEADSET ON/OFF"** key controls the activation of the Headset. When using the headset feature, the handset remains on-hook at all times.

Placing/Answering a Call using the Headset On/Off Feature

- To answer an incoming call, press the **"HEADSET ON/OFF"** key to activate the headset. The LED above the **"HEADSET ON/OFF"** key will be illuminated when in ON position.
- Adjust the volume, if necessary.
- Use the features of the headset that are available with the handset in use.
- You can dial using the the keypad or a speed dial key.
- To end headset activation, press the **"HEADSET ON/OFF"** key. The LED above the **"HEADSET ON/OFF"** key turn off.



Volume Lock Feature — When the handset, speaker, or headset volume feature is selected, the volume will automatically stay at that setting in the next use.



FreeSpeech™ Talk Feature is a unique TeleMatrix feature that allows the user the freedom to "toggle" between the headset, handset and speakerphone modes during a conversation.

LCD Display

Caller Identification (Caller ID*) LCD Display

Type II Caller ID Technology

The Spectrum PLUS™ LCD display supports Type II Caller ID*. This type of Caller ID displays the identity of a second incoming call while the user is actively on a first incoming call. The user has the option to answer the call or allow the call to automatically be forwarded to voice mail*.



***NOTE:** The Caller ID feature and Voice Mail will ONLY operate if you subscribe to your local telephone company and/or if your PBX telephone system is equipped with this technology. These telephone features will not work unless you are a subscriber.

If you are uncertain whether your PBX telephone system can transfer Caller ID data, contact your telephone service provider or your PBX Service Company.

LCD Backlighting

The Spectrum PLUS™ is equipped with a backlit Liquid Crystal Display (LCD) that displays Caller ID information. The LCD displays:

- Caller's Name and Number
- Call Log Information
- Message Waiting Envelope
- Time & Date
- Line In-Use

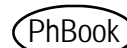


NOTE: The LCD display backlighting feature is activated after receipt of the first ring or with in-use operation of the handset, headset activation or speakerphone (incoming and outgoing calls). The illumination is active during the call and will shut off nearing 30 seconds after disconnecting.

Display Information Management Keys

The Spectrum PLUS™ is equipped with five management keys supporting the information displayed on the Liquid Crystal Display (LCD). This includes:

- Phone Book Management
- Caller ID Log Record Management
- Entering of Names and Numbers
- Editing of Names, Numbers
- Scrolling and One Touch Dialing Capabilities



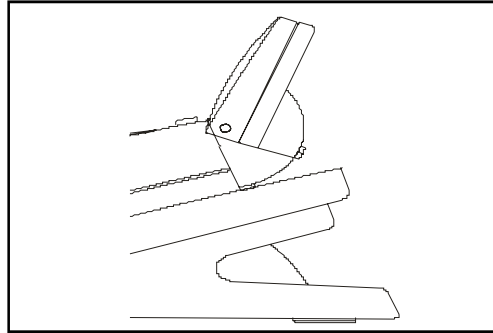
LCD Display

Caller Identification (Caller ID) LCD Display Adjustments

LCD Tilt Angle Feature

The LCD can be tilted upward for direct viewing and easy reading. Tilt the LCD to the desired position by lifting up the back of LCD housing.


(60° maximum upward tilt).




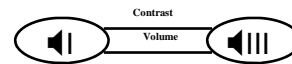
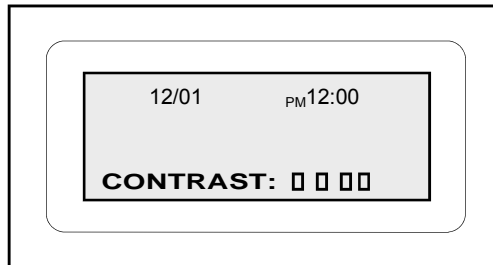
LCD Contrast Feature (4-step)

The LCD characters can be lightened or darkened using the volume control key.

While the handset is in the ON HOOK position, simply press the volume control key to adjust the contrast of the LCD screen.

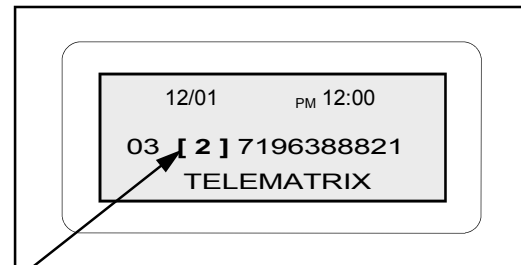
To lighten characters, press 

To darker characters, press 



LCD Call Record Display

The LCD display will show the number of times the same call record is received. For example, when the identical caller calls in multiple times, the LCD displays the number of times the caller has called within the brackets and shows the most recent time and date called.

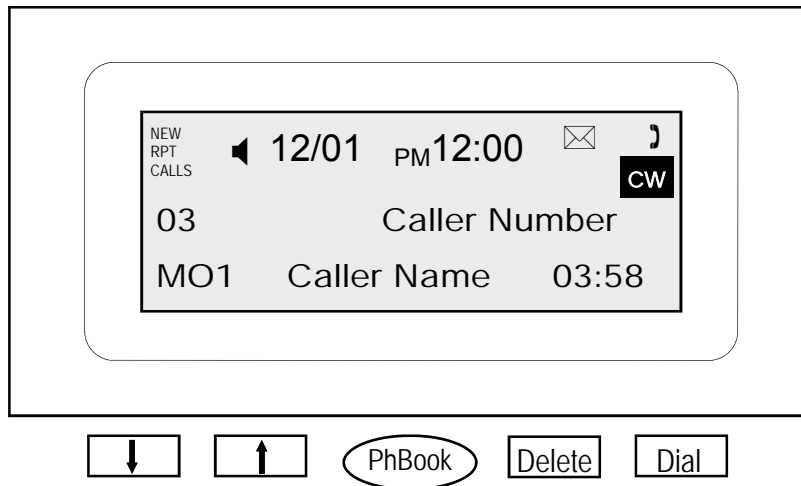


NOTE:

There are two situations: 1) No character [2] displayed if a repeat incoming call appeared after call Caller ID Record are reviewed. 2) For the reason of limitation of memory capability, the previous call number in the record will be deleted automatically if a new caller ID appeared when the Caller ID Record Log is full, in this way, it is possible for the repeat number not displayed, because the previous record is covered by the new call.

LCD Display

LCD (Caller ID* Display) Featured Icons



NEW
RPT
CALLS

Indicates New Call or Repeat Call



Indicates Speaker is ON*

12/01 Shows current date or date of call record in memory

PM 12:00 Shows current time or time of call record in memory



Indicates Message is Waiting in Voice Mail



Indicates Handset is In-Use



Indicates Call Waiting Caller is On Line

03 Shows Caller ID Record Location in Call Log Memory

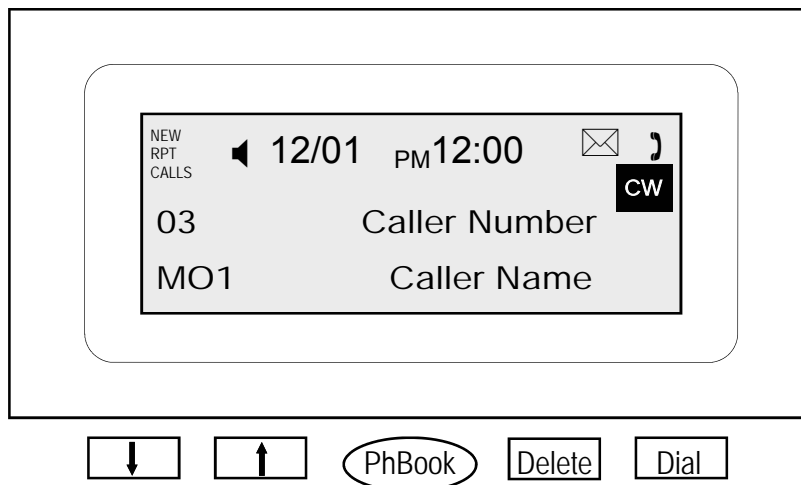
M01 Shows Phonebook Memory Location



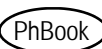




03:68 Shows Elapsed Time of Current Call

** Caller ID and Class Visual Message Waiting are features that require subscription to your local telephone company provided services. These telephone features will not work unless you are a subscriber.*

LCD Display

LCD (Caller ID* Display) Information Management Keys

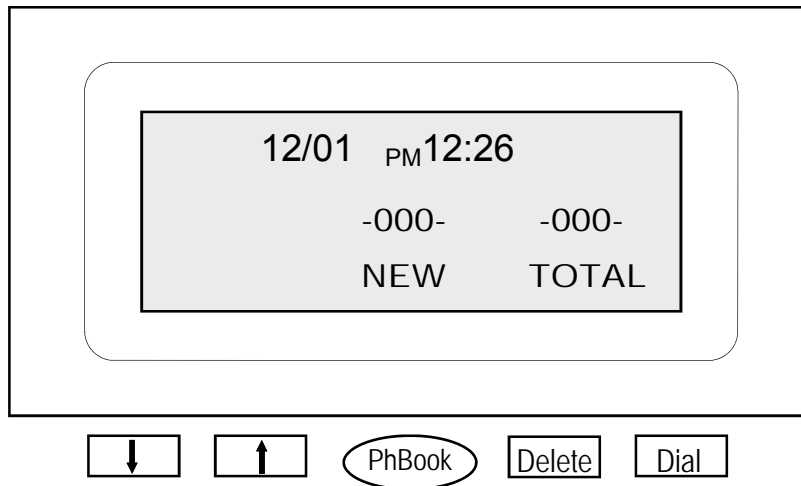


-  DOWN Key Used to Scroll LCD Records Downward
-  UP Key Used to Scroll LCD Records Upward
-  PhBook Used to Enter Phonebook
-  Delete Used to Delete Caller Log Record or Phonebook Record
-  Dial Used to Dial Record Displayed Number on the LCD Screen
-  Used to Enter the LCD's Edit Mode and to Edit or Enter LCD Information
-  Store Used to Store Names and Numbers into Memory

** Caller ID and Class Visual Message Waiting are features that require subscription to your local telephone company provided services. These telephone features will not work unless you are a subscriber.*

LCD Display

LCD (Caller ID* Display) Information when On Hook (Without Messages)



12/01 Shows current date

PM 12:26 Shows current time

-00- Indicates Zero *New* Messages

-00- Indicates Zero *Total* Messages

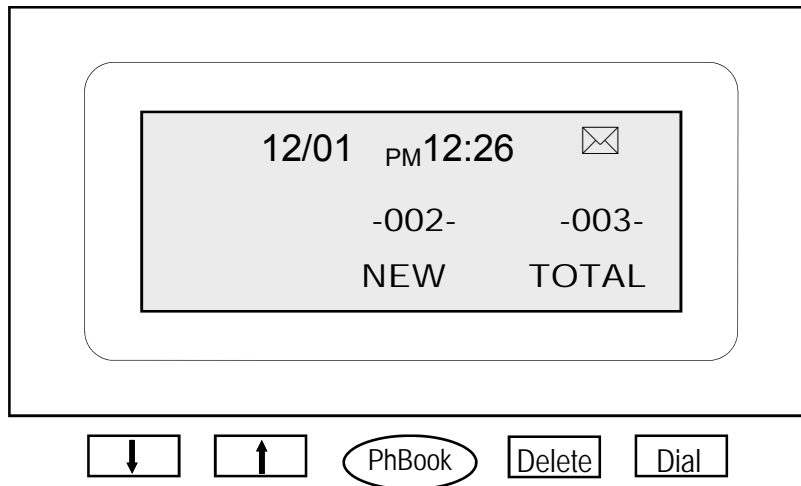
NEW Indicates Number of New Incoming Calls Since Last Retrieved Messages

TOTAL Indicates Total of Messages Received and Stored into Memory (100 maximum)

** Caller ID and Class Visual Message Waiting are features that require subscription to your local telephone company provided services. These telephone features will not work unless you are a subscriber.*

LCD Display

LCD (Caller ID Display) Information when On Hook (with Messages)



12/01 Shows current date

PM 12:26 Shows current time

☒ Indicates Message is Waiting in Voice Mail

-02- Indicates Two *New* Messages

-03- Indicates Three *Total* Messages

MSG Indicates The Line that New Incoming Messages are Stored

NEW Indicates Number of New Incoming Calls Since Last Retrieved Messages

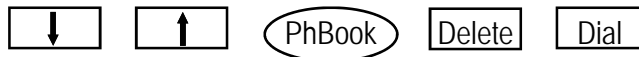
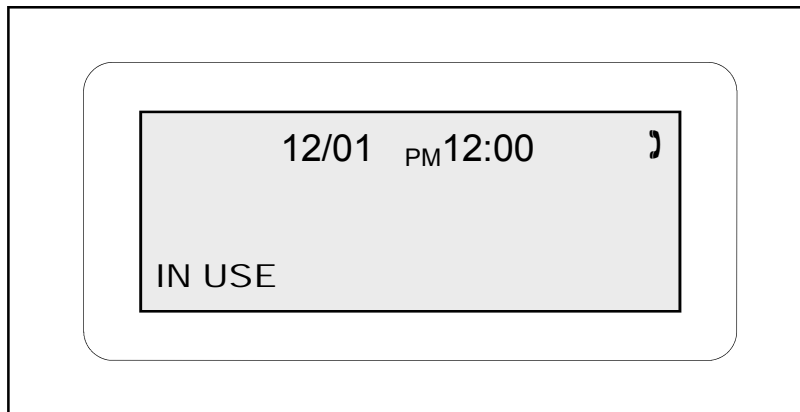
TOTAL Indicates Total of Messages Received and Stored into Memory (100 maximum)

* Caller ID and Class Visual Message Waiting are features that require subscription to your local telephone company provided services. These telephone features will not work unless you are a subscriber.

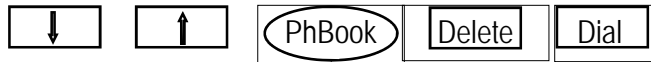
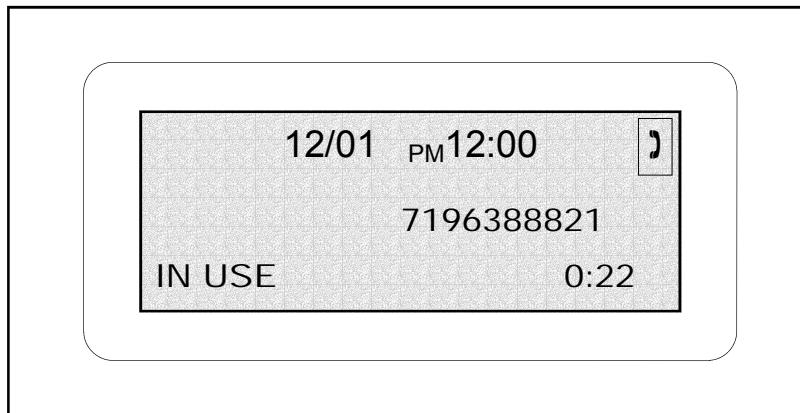
LCD Display

LCD (Caller ID* Display) Information when Dialing

Lift Handset



After Dialing, Elapsed Timer Activates on First Ring

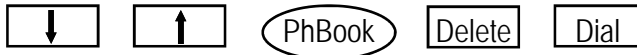
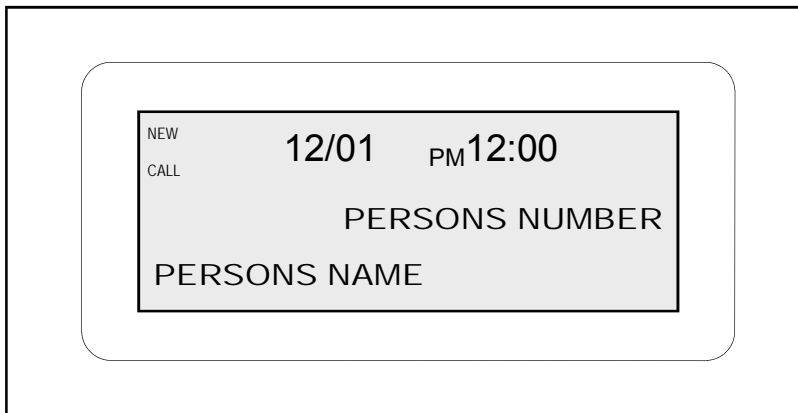


** Caller ID and Class Visual Message Waiting are features that require subscription to your local telephone company provided services. These telephone features will not work unless you are a subscriber.*

LCD Display

LCD (Caller ID* Display) Information when Receiving Incoming Call

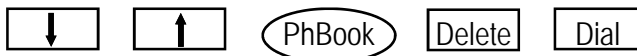
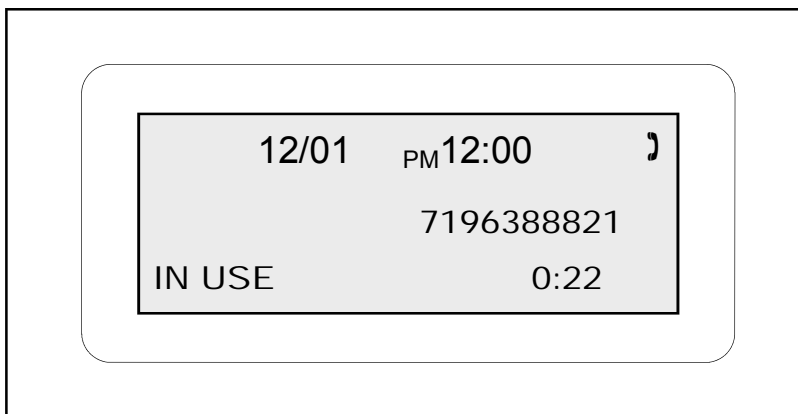
Telephone Ringing (with CID Message activated)



If caller called earlier and is on the caller log record, REPEAT CALL will appear.

RPT
CALL

After Answering Call (with CID Message activated)



A person's name and number will NOT appear if you are not subscribed to a *Caller ID and Class Visual Message Waiting System*. *

* *Caller ID and Class Visual Message Waiting are features that require subscription to your local telephone company provided services. These telephone features will not work unless you are a subscriber.*

LCD Display

Type II Caller Identification (Caller ID) Display Type

The Spectrum PLUS™ LCD display supports Type II Caller ID*. This type of Caller ID displays the identity of a second incoming call while the user is actively on a first incoming call. The user has the option to answer the call or allow the call to be forwarded automatically to the Users Voice Mail*.

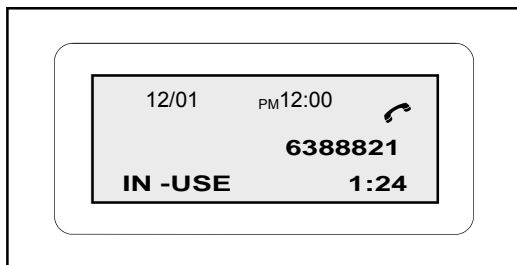


NOTE: When the CW call goes to voice mail, the information can be retrieved at a later time using the call log.

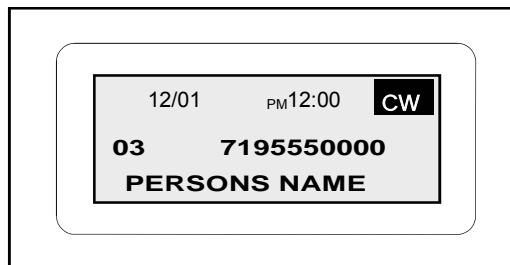
Incoming Call **CW** Waiting

When there is an active call, and another call is received, and the system is capable of Call Waiting, the Caller ID information for the incoming call will be displayed on the screen. The display will show the following information:

1. The date and time of the incoming call, a symbol icon will appear.
2. The location number of the call in storage, and the incoming call number.
3. The incoming caller's name.



First call is in-use



Second incoming call

* Caller ID and Class Visual Message Waiting are features that require subscription to your local telephone company provided services. These telephone features will not work unless you are a subscriber.

LCD Display

Caller Identification (Caller ID*) Date and Time Information*

Setting Date & Time Manually

The Spectrum PLUS™ Date & Time functions are user/installer programmable. The Date & Time can be set up by the user. See User Programming for further instructions. Once the programming is complete, the Date & Time are maintained internally by the Spectrum PLUS™.

Setting Date & Time Automatically

The Spectrum PLUS™ Date & Time functions are system programmable when Caller ID service is activated. The Date & Time is set initially by the first incoming call with Caller ID information. The Caller name and number is displayed on the LCD between the first and second ring. Each incoming call refreshes the Date & Time. Between calls, the Time & Date are maintained internally by the Spectrum PLUS™.



**The Caller ID feature will operate ONLY if you subscribe to Caller ID features with your local telephone company and if your PBX telephone system is equipped with the technology required to pass Caller ID data from the telephone line. If you are uncertain whether your PBX telephone system can transfer Caller ID data, contact your telephone system coordinator, or your PBX Service Company or the PBX manufacturer.*

LCD Display

Caller Identification (Caller ID*) Storage Capacity

Caller ID Storage Capacity

The Spectrum PLUS™ Caller ID will store 100-records (numbers and names). When memory is full, the oldest of the 100th call records will automatically be deleted when the newest call is accepted into memory.



NOTE:

If the same calling number connects multiple times, the call log will display the number of times called and the last call time and date only.



Phone Book Storage Capacity

The phonebook storage capacity holds 100-records (numbers and names). When memory is full, records will not delete automatically. The user must delete the unused records to allow new records to be added.



NOTE:

***Phonebook Records** can be placed into the phone book manually using the keypad or by saving an incoming Caller ID record.*



LCD Display

Scrolling and Call Back Feature

The “**DIAL**” key allows the user to call back either stored records or the displayed number on the LCD. A displayed number on the LCD comes from incoming calls, or from the Phonebook memory. The Dial Back editing feature allows the user to add or delete characters to accurately pattern the number to be called. To activate the editing feature, press any character on the keypad to activate after the record is found.

Scrolling For Stored Records

Pressing the “↑” or “↓” scrolling keys allows user to review all calls in Caller ID records. When scrolling crosses from the most current record to first record, or from the first record to most current record stored in memory, the LCD will display “END OF LIST” indicating the rollover. Location number and time and date will also change to the date of the call record displayed.

Instructions to find a record:

Scrolling For The Most Current Caller ID Records

1. If the current record is not displayed, press the “↓” key to reach the most current record.
2. Press “↓” key again to review the next most current record.
3. Continue “↓” to continue the search.

NOTE: The DIAL key will dial any number that is displayed on the LCD screen. If a number is not displayed on the screen, then there is no number in memory.

Contact your local telephone service provider to see what services they offer to recognize private party calls or anonymous calls that elect to NOT forward their phone number.

Scrolling For The Oldest Caller ID Records

1. Press the “↓” key to reach the most current record
2. Then press the “↑” key.
3. The LCD screen displays “**END OF LIST**” indicating the CID screen is at the beginning of stored memory.
4. Press “↑” key again to review the oldest records in stored memory.
5. Continue next record up to continue the search.

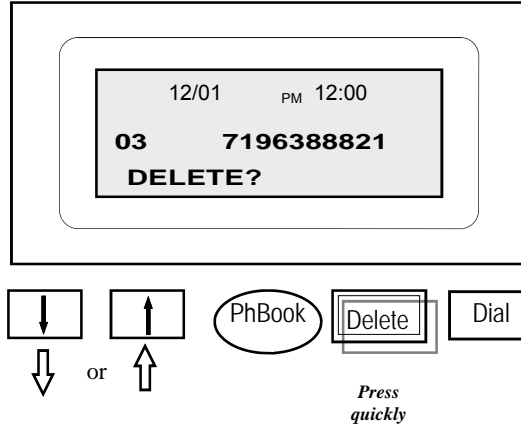
NOTE: Be sure to enter the area code in AREA CODE set up. The area code entered allows the phone to recognize and eliminate your local area code when dialing out.

LCD Display

Deleting a Call Log Record

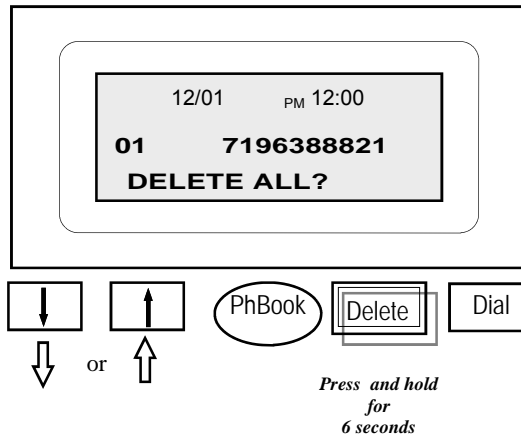
Delete Individual Stored Call Record

1. Press the “↑” or “↓” key to activate stored memory. The LCD screen will display a record. Use the “↑” or “↓” key to scroll to the caller record that is to be deleted.
2. Press the “DELETE” key once and the LCD will display the question DELETE?.
3. Press the “DELETE” key a second time to delete.



Delete All Stored Call Records

1. Press the “↑” or “↓” key to activate stored memory. Scroll to the first record in memory.
2. Press and hold the “DELETE” key for 6 seconds. The LCD will display the question “DELETE ALL?”.
3. To delete all stored calls, release and press the “DELETE” key again to delete all records.



NOTE: Any record that is deleted cannot be retrieved. To escape from deleting any record, press the “DISC” key at any time prior to acceptance of the DELETE? question.

LCD Display

Adding a Phonebook Record From a Caller ID Record

The Phonebook can automatically save a caller ID record into the Phonebook memory. To add the record, simply find the record using the LCD management keys and press the **"PhBook"** key.

Adding a Caller Record To The Phonebook

1. Press the **"↑"** or **"↓"** key to activate stored memory. The LCD screen will display a record. Scroll to the caller record to be placed in the Phonebook (figure 1).
2. To place into phonebook memory, press the **"PhBook"** key once and the LCD will display the word **"PLEASE WAIT"**. The number is now placed into memory (figure 2).
3. The LCD screen will display **"REPEAT PHBOOK"** (figure 3) if the caller record has been stored in the memory of **"PhBook"**.

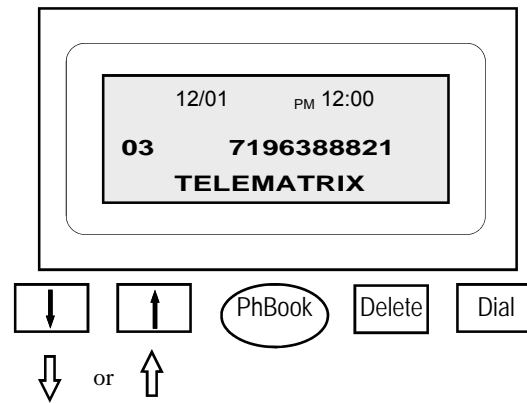


Figure 1

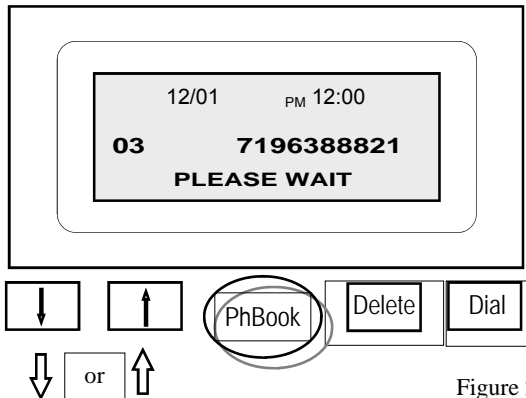


Figure 2

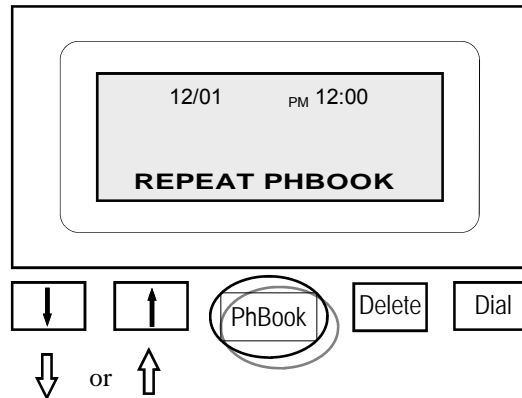


Figure 3

LCD Display

Adding A Phonebook Record Manually

Phonebook records may be added manually. To add a record, simply follow the instructions below. All stored records in the Phonebook will be displayed in alphabetic order.

Manually Adding A Phonebook Record Into Memory

1. The phone must be ON-HOOK (in the cradle).
2. Press the **"STORE"** key.
3. Press the **"PhBook"** key. The display will show "ENTER NUMBER" (figure 1).
4. Input the number using the keypad (figure 2).
5. Press the **"STORE"** key again. The display will show "ENTER NAME" (figure 3).
6. Input the name using the keypad (figure 2).
7. Press the **"STORE"** key again. The display will show "PLEASE WAIT" (figure 4).
8. The display will default to the original screen.
9. To add additional records, repeat line items 2 through 7 above.

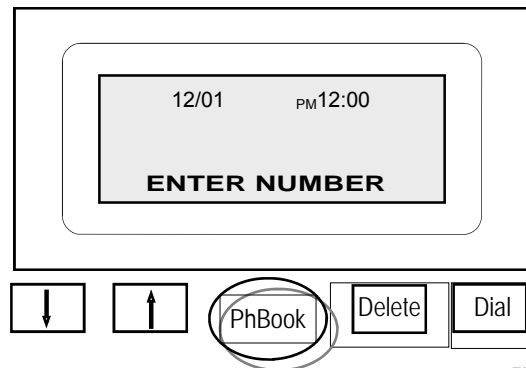


Figure 1

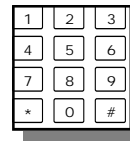


Figure 2

KEYPAD

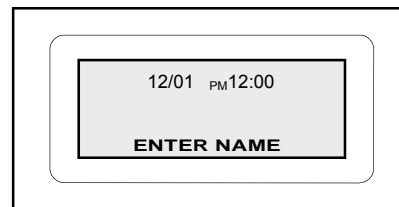


Figure 3

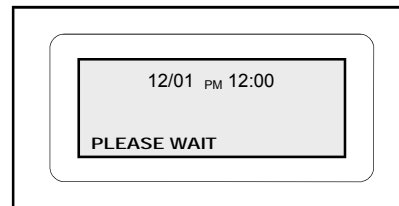


Figure 4

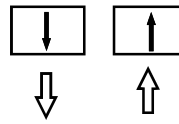
NOTE: A maximum of 32-digits can be entered into ENTER NUMBER and 12-characters into ENTER NAME.

LCD Display

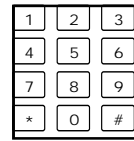
Dialing From the Phonebook Directory

To Dial From the Phonebook Directory

1. Press the **"PhBook"** key to enter into the Phonebook mode.
2. To locate the desired record, Scroll the **"↑"** or **"↓"** key or use the Hyperlink Feature below along with the **"↑"** or **"↓"** key to find a record. (See the Hyperlink Feature note below).
3. Once the record is found, press the **"DIAL"** key.



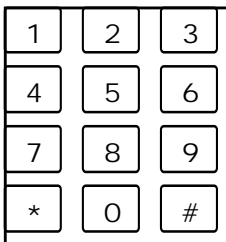
or



**OR USE
HYPERLINK
BELOW**



Hyperlink to a Stored Record



Note: The keypad only recognizes the first keypad character of each key.

For example;

- "2" = records beginning with A, then scroll for B and C records.
- "3" = records beginning with D, then scroll for E and F records.
- "4" = records beginning with G, then scroll for H and I records.
- "5" = records beginning with J, then scroll for K and L records.
- "6" = records beginning with M, then scroll for N and O records.
- "7" = records beginning with P, then scroll for Q, R and S records.
- "8" = records beginning with T, then scroll for U and V records.
- "9" = records beginning with W, then scroll for X, Y and Z records.

For scrolling, use the UP or Down key to scroll to the name being searched.

LCD Display

Call Record Editing Prior to Dialing

To Add Characters to the Displayed Number

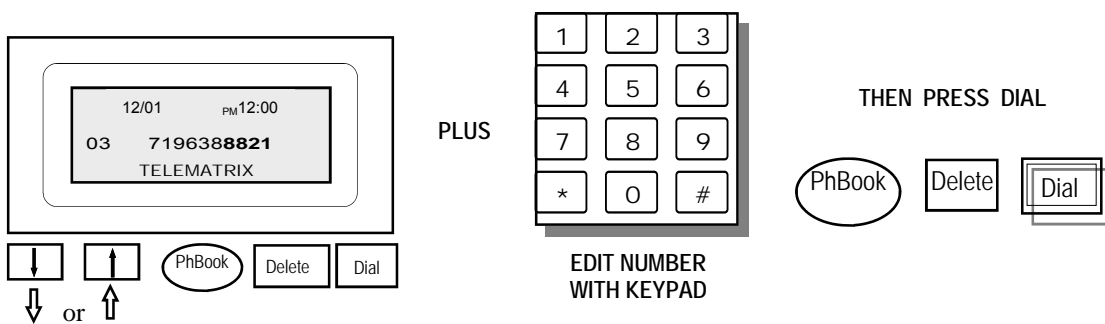
1. Press the “↑” or “↓” key to activate the display for scrolling.
2. Scroll the “↑” or “↓” key to find the number to be dialed.
3. Activate the editing feature by pressing any number on the keypad. (Note that the key pressed will be displayed on the LCD).
4. Press the keypad number you require and it will appear on the LCD prior to the number on the display.
5. Lift handset or activate the “SPEAKER” key.
6. Press the “DIAL” key to dial the number automatically. When pressing the “DIAL” key, the “SPEAKER” will activate.

Note: The number can only be inserted prior to the displayed digits. See Delete Characters for improper inserted characters.

To Delete Characters from the Displayed Number

1. Press the “↑” or “↓” key to activate the display for scrolling.
2. Scroll the “↑” or “↓” key to find the number to be dialed.
3. Activate the editing feature by pressing any number on the keypad.
4. Press the “DELETE” key to delete individual characters.
5. Lift handset or activate the “SPEAKER” key.
6. Press the “DIAL” key to dial the number automatically. When pressing the “DIAL” key, the “SPEAKER” will activate.

Note: When deleting characters from a caller's identity, the Call Log will not be changed.



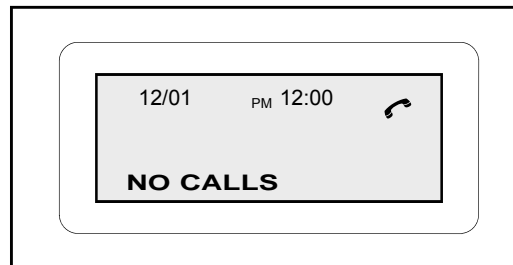
NOTE: The area code initially programmed into the AREA CODE menu then recognizes your local area code and eliminates these numbers when dialing out.

LCD Display

Other LCD Display Messages

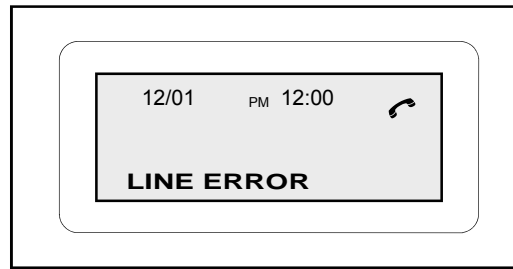
“No Calls” Display

This message will display when there are no call records received since last using the Caller ID features menu when the “↑” or “↓” key is pressed.



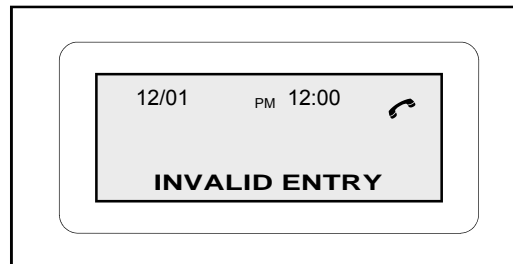
“Line Error” Display

Indicates that there was a line error when attempting to connect to the dialed party. Retry the phone call. If “line error” continues, check for dial tone. If no dial tone, call your local service provider.



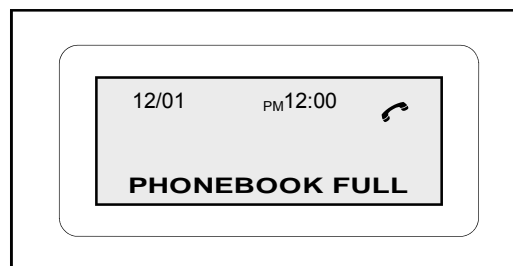
“Invalid Entry” Display

Indicates that the entry is not recognized or is outside the parameter of the range for that specific function. LCD display the “INVALID ENTRY”.



“PhoneBook Full” Display

Indicates that the phonebooks memory has the maximum of 100 records. To add more phone records, delete records that are not used to free up memory.



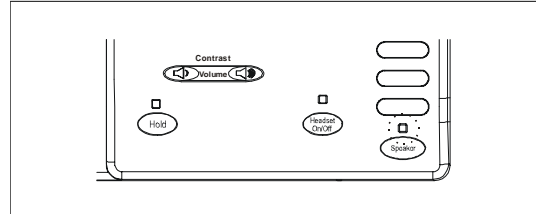
Operation

In-Use Indicators

In-use indicator lights located above each key indicate in-use operations.

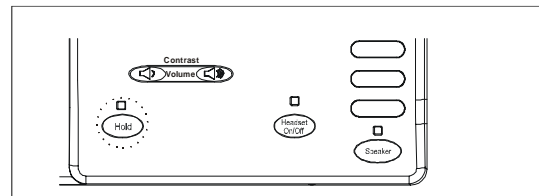
Speaker Line Indicators

When the **"SPEAKER"** key is activated, the in-use light illuminates steadily RED above the **"SPEAKER"** key. The LCD will display "SPEAKER" when active.



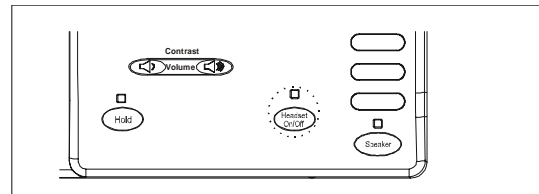
Hold Key Indicators

When the **"HOLD"** key is activated, the light above the HOLD KEY will be steadily RED. The LCD will display "HOLD" when active,



Headset Key Indicators

When the **"HEADSET ON/OFF"** key is activated, the Headset indicator will be steadily RED. The LCD will display "HEADSET" when active.



Operation

Placing a Call Using the Speakerphone

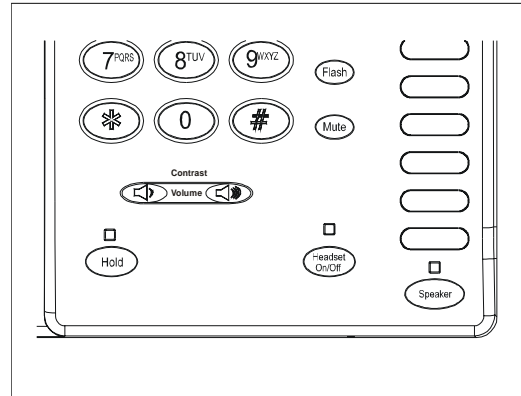
The Spectrum PLUS™ is equipped with a high quality speakerphone feature to allow for hands-free operation. To use, simply press the **"SPEAKER"** key when placing or answering a call. The telephone line will activate automatically.

When the "DIALPAD" Feature is programmed to be ON, the speakerphone will become active when pressing any number on the dial pad keys.

The LED above the **"SPEAKER"** key will illuminate to indicate that the speakerphone is in-use.

To hang-up, press the **"SPEAKER"** key again.

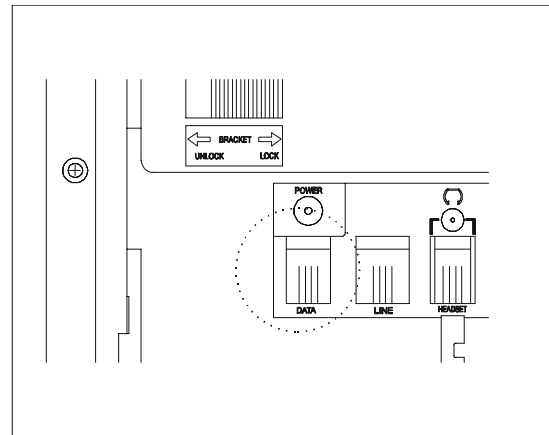
To use the handset, pick up the handset from the cradle and the handset will be active. The speakerphone will disconnect. To re-activate the **"SPEAKER"** key, press the **"SPEAKER"** key and place the handset back into the cradle.



Operation

Using the Data Port

The Spectrum PLUS™ is equipped with a convenient data port on the bottom of the base unit. This modular receptacle is used to plug in any standard telephone device such as a computer modem, answering machine, or fax machine.



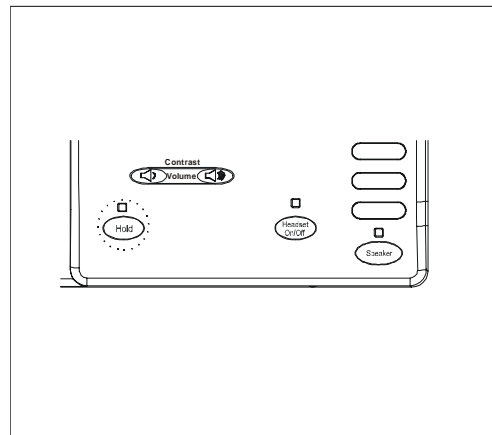
Operation

Using the Hold Feature

The **"HOLD"** key is used to place a caller on hold. To use, simply press the **"HOLD"** key. The LED above the **"HOLD"** key will illuminate to indicate that this line is on hold. The LCD will display the word **"HOLD"** when active.

When the **"HOLD"** key is active, the handset can be lifted off-hook or returned to its on-hook position and the line will not be disconnected. To return to the caller, simply lift the handset and press the **"SPEAKER"** key or and press the line-in-use key and the **"SPEAKER"** key will automatically activate for hands-free operation.

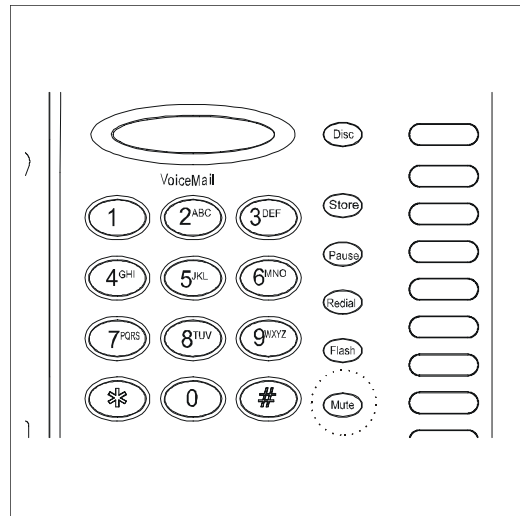
Hold will also release when the call is picked up from an additional extension phone.



Operation

Using The Mute Feature

A **"MUTE"** key is provided to allow privacy during a background conversation. When the **"MUTE"** key is activated, the microphones in the handset, speakerphone and/or headset are disabled. When the **"MUTE"** key is activated, the caller will not hear voice. "Mute" will be displayed on the LCD to show that the feature is activate. To de-activate, press the **"MUTE"** key again.



Operation

Using the Redial Feature

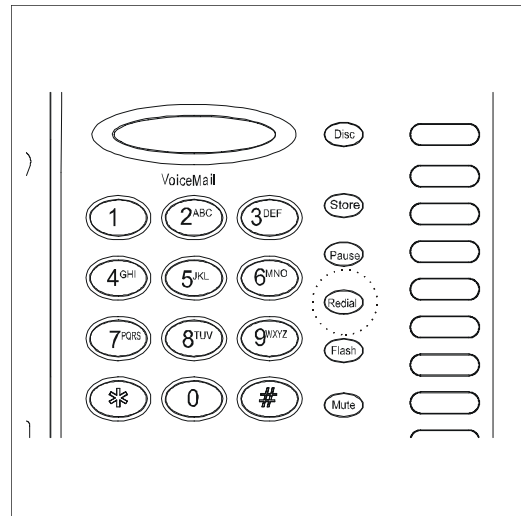
The **“REDIAL”** key is used to automatically redial the last number that was dialed from the keypad.

To use:

- Lift the handset (or activate the speaker).
- Press the **“REDIAL”** key.
- The last number dialed will be redialed.

Or

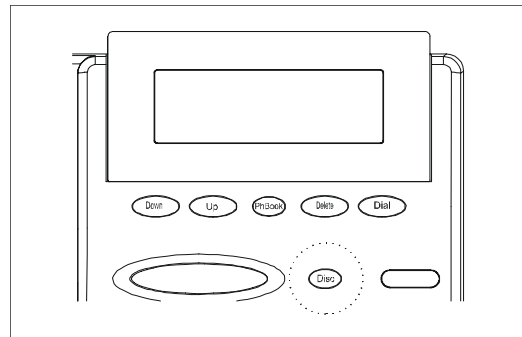
- Simply Press the **“REDIAL”** key and the last number dialed will be redialed.



Operation

Using The Disconnect Feature Key

The **“DISC”** (DISCONNECT) key is a 2-second electronic timed line break. The key can be used to automatically hang-up the call that you are currently on and regain a new dial tone to establish a new call.



To use:

- Simply press the **“DISC”** key when the conversation is complete.
- The **“DISC”** key can be used in Speaker mode, on-hook, off-hook or conference.
- The **“DISC”** key can be used with headset or handset activation.
- The **“DISC”** key provides a convenient way to disconnect the line when not using the handset.

Operation

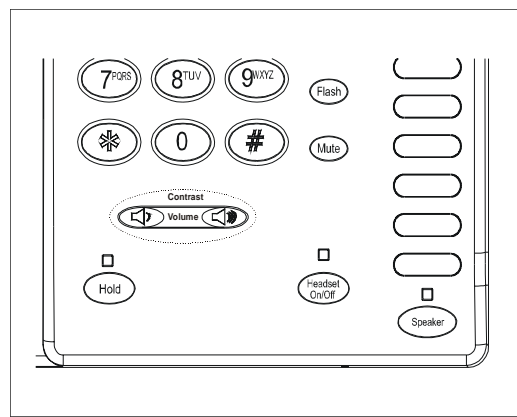
Handset Volume Control

The Spectrum PLUS™ is equipped with an ADA/FCC compliant handset volume control located on the front of the phone.

When the right end of the **“VOLUME”** key is pressed, the volume of the handset receiver is increased.

When the left end of the **“VOLUME”** key is pressed, the volume of the handset receiver is decreased.

The **“VOLUME”** key is an eight-step volume control key.



Volume Lock Feature — When the handset, speaker, or headset volume feature is selected, the volume will automatically stay at that setting in the next use.

Care and Maintenance



Keep the telephone dry. If it gets wet on the outside, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits. Do not touch the unit if submerged in water. Call for assistance.



Use and store the telephone only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts. Avoid direct sunlight.



Keep the telephone away from excessive dust and dirt that can cause premature wear of parts.



Wipe the telephone with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the unit.

Service

When problems arise during installation or service that cannot be resolved using this or related documents, contact the TeleMatrix Priority Care Department, Monday through Friday, 8:30a.m. - 4:30p.m. MST:

Toll Free: 1-800-462-9446
Direct: 719-638-8821
Fax: 719-638-8815
www.telematrixusa.com

Many times a problem is either installation or user related. Please contact TeleMatrix PRIOR to sending a telephone to our service center for repair. In the unlikely event that a factory repair is necessary:

1. Include a brief description of the problem that you are experiencing.
2. Include a proof of purchase for a repair under warranty.
3. Send the telephone prepaid by UPS or Parcel Post, insured to:

TeleMatrix, Inc.
Priority Care Center
5025 Galley Road
Colorado Springs, Colorado 80915

TeleMatrix will pay return postage on the repaired telephone. Allow 2-3 weeks for delivery. When immediate replacement is required, see our FastLaneSM replacement policy on our internet site.

Warranty

STATEMENT OF LIMITED WARRANTY

TeleMatrix, Inc. (TMX) warrants to its [original end customer] [purchaser] that Spectrum and Marquis branded products manufactured by TMX are free from defects in materials and workmanship for five (5) years, SpectrumPLUS for two (2) years after the date of purchase, and Regency branded products manufactured by TMX are free from defects in materials and workmanship for three (3) years, other than the following products for which the warranty period shall be one (1) year: handset batteries, either NiCd or NiMH, used in TMX cordless products. If a product fails this warranty during the warranty period, TMX will, at its option, either repair or replace the defective product or parts, or deliver replacements for defective products or parts on an exchange basis at no additional charge to the customer except as set forth below. Repair parts or replacement products may be either new or reconditioned. Products or parts returned to TMX under this warranty will become the property of TMX. Warranties on products repaired by TMX expire at the termination of the original warranty period.

This limited warranty does not cover:

1. Products or parts which are damaged, abused or misused;
2. Any damage resulting from improper installation, maintenance or operation of the product;
3. Damage resulting from unauthorized modification or repair of the product, or from improper connection of the product to other equipment;
4. Cords, connectors and replaceable batteries;
5. Damage in transit to the TMX repair facility;
6. Any product or part unless proof of date of purchase is submitted with the product when returned for warranty repair; or
7. Costs incurred by the customer in removing and shipping the product to TMX for repair or replacement, and costs of reinstallation of the product.
8. Products or parts which are not owned and used by the original end user customer.

The cost and risk of loss or damage for sending the product to TMX will be borne by the customer.

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