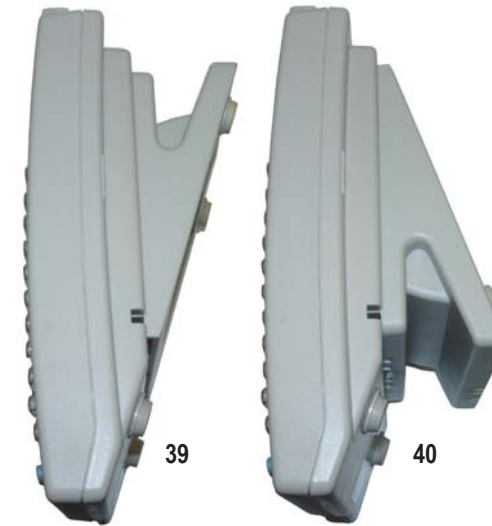


SPECTRUM PLUS™

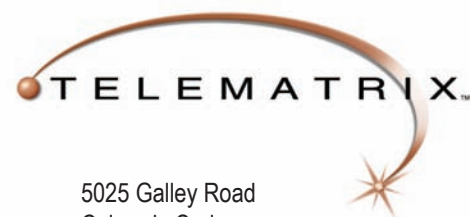
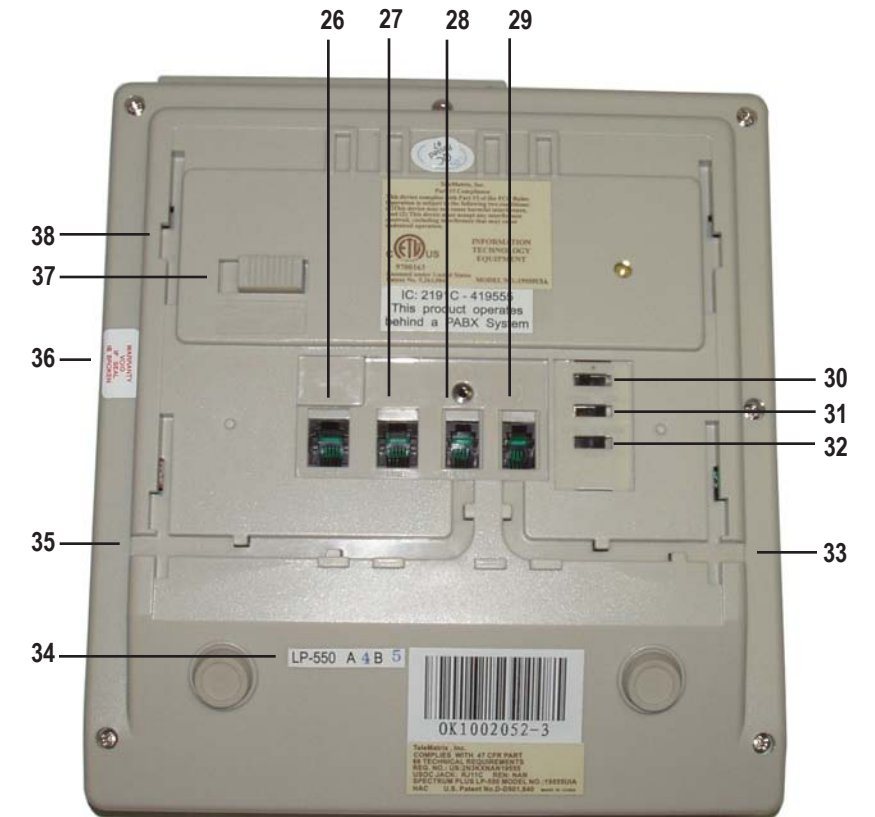
LP550 User's Guide

Line Powered Speakerphone
Single Line Caller ID



Base Underside Features & Controls

- 26. Data port receptacle
- 27. Line cord receptacle
- 28. Headset port receptacles
- 29. Handset coil cord receptacle
- 30. Ringer Volume - HI LOW OFF
- 31. Message Waiting - NEON LED
- 32. Hold setting - LINE SYSTEM
- 33. Handset cord channel
- 34. Model version number
- 35. Line cord channel
- 36. Warranty seal
- 37. Mount bracket lock
- 38. Mount bracket channel
- 39. Desk mounted bracket
- 40. Wall mounted bracket



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STATEMENT OF LIMITED WARRANTY

TELEMATRIX, INC. warrants to its [original end customer] [purchaser] that Spectrum PLUS, Marquis and RETRO branded products manufactured by TELEMATRIX, INC. are free from defects in materials and workmanship for five (5) years after the date of purchase, and Regency branded products manufactured by TELEMATRIX, INC. 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 TELEMATRIX, INC. cordless products. If a product fails this warranty during the warranty period, TELEMATRIX, INC. 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 TELEMATRIX, INC. under this warranty will become the property of TELEMATRIX, INC. Warranties on products repaired by TELEMATRIX, INC. 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 TELEMATRIX, INC. 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 TELEMATRIX, INC. 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 TELEMATRIX, INC. will be borne by the customer.

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This limited warranty is non-transferable without the prior written approval of TELEMATRIX, INC. It gives the customer specific legal rights. The customer may have other rights which vary under local law. Some jurisdictions may not allow limitations on the term of an implied warranty or exclusions or limitations of incidental or consequential damages.



SpectrumPLUS LP550 INSTALLATION & USERS GUIDE

PARTS CHECK LIST:

The following parts are included in this package:

- A. Line cord - 15 ft.*
- B. Handset coiled cord - 10ft.
- C. Base unit
- D. Handset
- E. Twenty two (22) speed dial preprinted keycaps
- F. Four (4) additional clear keycaps
- G. Two (2) labeling sheets
- H. Wall/Desk Mount Wedge and short 6 inch line cord.*

* SpectrumPLUS line cords are 4-pin 6-conductor line cords (4P4C line cord). Replacement line cords must be the same.

COMPLIANCE & 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 place 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.

If the Compliance and Safety Manual is not immediately available. Please obtain a free copy by calling our PriorityCare department (1.800.462.9446) or by downloading a copy on our Internet web site (www.telematrixusa.com).

TABLE of CONTENTS:

Features

Features & Controls	page 1
Parts List	page 2
Compliance/Safety	page 2

Installation

Caution Information	page 3
Connecting Cords	page 3
Key Caps	page 3
Switch Settings (hold, ringer, msg. waiting)	page 4
Bracket - Desk or Wall Mounting	page 14

Operation

LED Indicators	page 5
Placing a Call	page 5
Data Port	page 5
Hold/Mute & Redial Features	page 6
Disconnect & Volume Features	page 7
VoiceMail Retrieval & Recording	page 7
Headset Features	page 8

Programming

All Functions	page 9
Date/Time, Language, Voice Mail	page 10
Dial Key, Call Waiting ON	page 11
Pause & Flash Timing	page 12
Live Dial Pad, SDT, All Setup Ok	page 13

LCD Display Information & Icons

LCD Display Images	page 15
LCD Information	pages 16-20

Servicing

Care, Maintenance, Service	page 21
Warranty	page 22

Installation...

Caution Information

- Never install telephone or network wiring during a lightning storm.
- Never install telephone or Ethernet 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 and network lines.

Connecting the Handset Cord

A 10 ft. modular handset coil cord is provided. To install, simply plug one end of the coil cord into the jack at the base of the handset, and the other end into the jack located on the under side of the telephone base marked "Handset", routing the long end of the cord through the channel directly below the jack.

Connecting the Line Cord

A 15 ft. modular line cord is provided. To install, simply plug one end of the cord into the modular jack on the underside of the base unit, route the line through the channel directly below the jack, and the other end into the wall jack.

Installing Key Caps

Twenty two pre-labeled feature keycaps are provided.

There are eleven clear keycaps already installed. To install pre-printed keys, remove the clear caps by pulling up. Replace with pre-printed caps or place user printed paper index labels under a clear keycap. Program each speed dial key for the specific function of the key. (See Programming page 9-16 for instructions)

Labeled Key Caps

The twenty two silkscreened keycap names are below:

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

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 to the number you wish to dial.
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. To dial, lift handset or activate the "SPEAKER" key or press "DIAL" key to dial number automatically. When pressing the "DIAL" key, the "SPEAKER" will activate.

Note: The number can only be inserted prior to the displayed digits.

To Delete Characters to the Displayed Number

1. Press the "↑" or "↓" key to activate the display for scrolling.
2. Scroll to the number you wish to dial.
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 "DELETE" key to delete individual characters.
5. To dial, lift handset or activate the "SPEAKER" key or press "DIAL" key to dial 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.

"Invalid Entry" Displayed -

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

Deleting a Call Log Record

Deleting an individual stored Call Record

Press “↑” or “↓” key to activate stored memory. The LCD screen will display a record.

Scroll to the record you wish to delete.

Press the “DELETE” key once and the LCD screen will display the question “DELETE?”

Press the “DELETE” key a second time to delete record.

Deleting All stored Call Records

Press “↑” or “↓” key to activate stored memory. croll to the first record in memory.

Press and hold the “DELETE” key for 6 seconds. The LCD will display the question “DELETE ALL?”

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 “DISC” key at any time prior to acceptance of the “DELETE?” question.



Settings...

Ringer Volume Switch - # 30

The ring volume switch can be set at High, Low or Off position.

Message Waiting Selector - # 31

This telephone can support 90VDC “Neon” or low-voltage “LED” message waiting systems. Simply slide the switch to the desired position that is compatible with your PBX message system.

Note: the phone is factory preset to the “Neon” setting

System Hold Feature (option switch) - # 32

A feature switch for different hold fuctions 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. Programmable “System Hold” feature is used for optional PBX system operations.

The switch default is set at the factory as standard “Line Hold”.

Note: To program 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.

Line Cord Powered

The SpectrumPLUS LP Series do not require external power. It uses line power from the telephone company. Simply plug in the line cord from the wall jack to the underside of the telephone and you are powered up.

To check if the installation was correct, the information shown on LCD in Idle Mode, Calls and Records will show no call (00). If this is not displayed, please check your line cord connections.

Indicators...

Speaker Line Indicators - # 17

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

Headset Key Indicators - # 18

When the "HEADSET ON/OFF" key is activated, the in-use light illuminates steadily RED. The LCD will display "HEADSET" when active.

Hold Key Indicators - # 22

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

Placing a Call...

Using the Handset - # 1

- Lift the handset
- Dial out by using the numeric dial pad or selecting a number in memory.

Using the Speakerphone- # 17 & 23

The SpectrumPLUS 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 activate automatically when pressing the number on the dial pad keys.
- The LCD above the "SPEAKER" key will illuminate to indicate that the speakerphone is in-use.
- To hang up the handset, pick up the handset from the cradle and the handset will activate. The speakerphone will disconnect. To re-activate the "SPEAKER" key, press the "SPEAKER" key and place the handset back into the cradle.

LCD In-Coming Call 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

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

The user has the option to answer the call or allow the call to be forwarded automatically to the User's Voice Mail. When the CW call goes to voice mail, the information can be retrieved at a later time using the call log.

LCD Scrolling & 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 the user to review all calls in the 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.

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.

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.

Note: Contact your PBX provider to see what services they offer to recognize private party calls or anonymous calls that elect to NOT forward their phone number.

LCD Feature Icons -

NEW (upper left)	Indicates New Call
Speaker Icon (upper left)	Indicates Speaker in ON
00000 (upper center)	Shows current date or date of call record in memory
AM/PM 00:00 (Upper right)	Shows current time or time of call record in memory
Envelope Icon (upper right)	Indicates Message is Waiting in Voice Mail
Phone Icon (upper right)	Indicates Handset is In-Use
CW (upper right)	Indicates Caller is Waiting On-Line
00:00 (lower right)	Shows elapsed time of current call (begins at 1st ring)
Text (lower left)	Shows Message ie. Name of Caller, In-Use...

Display Adjustments

LCD Positioning

The LCD can be tilted upward for direct viewing and easy reading. Tilt it to your desired position by lifting up the back of the LCD housing. Maximum upward tilt is 60 degrees.



LCD Contrast - # 20

The LP550's LCD has a 4-step contrast adjustment. However, the LP550's background is not illuminated, as line power does not allow for this feature to be activated.

Using the Redial Feature - # 14

The "REDIAL" key is used to automatically redial the last number that was dialed from the key pad. To use:

- Lift the handset (or activate the speaker).
- Press the "REDIAL" key and the last number dialed will dial.
- Or, with the handset on-hook, simply press the "REDIAL" key and the last number dialed will redial, automatically activating the speaker.

Note: When redialing the last incoming call, the display will not show the number being dialed.

Using the Mute Feature - # 16

The "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 active.
- To de-activate, press the "MUTE" key again.

Using the Hold Feature - # 22

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 the line is on hold. The LCD will display the word "HOLD" when active.
- When Line Hold is on "HOLD", the handset can be returned to its on-hook position and the line will not be disconnected. To return to the caller, simply lift the handset or press the "SPEAKER" key.
- When System Hold is on "HOLD", the call will be disconnected if you hang up the handset.
- Hold will also release when the call is picked up from an extension phone.

Using the Data Port - # 26

The data port is located on the underside of the base unit. This modular receptacle is used to plug in any standard telephone device, such as a PC, laptop, answering machine or fax machine.

Using the Disconnect Feature - # 10

The "DISC" 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:

- Press the "DISC" key when the conversation is completed.
- The "DISC" key can be used in speaker, headset or handset mode.

Using the Volume Control - # 21

The SpectrumPLUS is equipped with an ADA compliant volume control located on the face of the phone.

To use:

- When the right end of the "VOLUME" key is pressed, the volume will increase.
- When the left end of the "VOLUME" key is pressed, the volume will decrease.
- The "VOLUME" key is an eight-step volume control.

Note: When the handset, speaker, or headset volume feature is selected, the volume will automatically stay at that setting in the next use.

Using Voicemail to Retrieve and Record Messages - # 9

To listen to Voicemail over the speakerphone:

- Press the "Voicemail" button

To listen to VoiceMail over handset:

- Lift the handset
- Then press "VoiceMail" button

To record or update the outgoing voicemail message:

- Lift the handset
- Then press "VoiceMail" button
- Then follow the audio prompts

TIPS: • Speakerphone is automatically Muted when VoiceMail button is pressed.

- *If you need to talk during Voicemail call, press "MUTE" button once to cancel muting.*
- *If telephone is already off-hook when "VoiceMail" button is pressed, no muting occurs.*
- *Outgoing voicemail messages sound best when the handset is used to record them.*
- *If privacy/security is required, do not program the voicemail PIN into the telephone. Instead, enter it manually during each voicemail call.*

LCD Display...

LCD Technology

The SpectrumPLUS LCD (Liquid Crystal Display) supports Type II Caller ID. This type of Caller ID displays the identity of the second incoming call while the user is actively on the first incoming call. The user has the option to answer the call or allow the call to automatically be forwarded to voice mail.

Caller ID feature will not work unless you are a subscriber of that feature with your local telephone company. To check on whether you have Caller ID service, contact your telephone provider or your PBX service company.



Display information Management Keys

The SpectrumPLUS is equipped with management keys to support the information displayed on the Liquid Crystal Display (LCD)

Caller ID Log Record Management

Entering of Names and Numbers

Editing of Names and Numbers

Scrolling and One-Touch Dialing Capabilities



Idle Mode: date time
new calls total calls



Contrast: date time
contrast level



In Coming: date time
of incoming calls number calling
name of caller



Calling Out: date time handset icon
line in use number calling counter clock



New Call: date time
of incoming calls number calling
name of caller



In-Coming Call Waiting: CW call
new caller speaker date time waiting
call log record number calling
name of caller



Speaker Mode: date time
speaker counter clock



Headset Mode: date time
headset counter clock



Deleting 1 Call: date time
call log record number
deleting single call log question



Deleting All Calls: date time
(hold key down for 6 seconds)
delete all call logs



Invalid Call: date time
invalid entry (try again)

Headset...

Headset Feature - # 28

- The SpectrumPLUS Series is equipped with a separate port for plugging in an optional headset. The port is located on the underside of the base unit.
- To install, simply plug headset cord into HEADSET jack or plug - # 28
- 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.
- To answer incoming call, press the “HEADSET ON/OFF” key to activate the headset. The LED above the “HEADSET ON/OFF” key will illuminate when in the ON position. To disconnect press “HEADSET ON/OFF” key again, LED light will go off.
- 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 hook switch/handset to process telephone calls while in heads mode.
- TeleMatrix does not supply headsets, they may be purchased from a TeleMatrix distributor. Many varieties of headset models are available.
- SpectrumPLUS telephones are unique in that they have a **Built-in Headset Amplifier**. External amplifiers are NOT recommended.



PROGRAMMING STEPS:

Press STORE Key

MENU DISPLAYS:

1. MONTH: 01
2. DAY: 01
3. HOUR: 12AM
4. MINUTE: 00
5. AM=1 PM=2
6. -1- -2- -3-
ENG FRA ESP
7. VOICE MAIL NO.
8. VM PIN
9. VM PIN WAIT TIME
10. 1-TOUCH VM OFF
11. OUTSIDE LINE PRE
12. LONG DISTANCE
PREFIX
13. AREA CODE 1
14. AREA CODE 2
15. CALL WAIT ON
16. PAUSE TIME 3.6S
17. FLASH TIME
18. LIVE DIAL PAD OFF
19. SDT ON
20. ALL SETUP OK

Programming...

SPECTRUM **PLUS**™ LP550

Line Powered Caller ID Speakerphone

Steps in programming All functions:

- a. The phone **must be hung up** (on hook) to begin programming.
- b. **Press the STORE** key to enter the programming mode.
- c. **Continue to press STORE** key until you arrive at the function you wish to program.
(ie. Press STORE 6 times if you wish to change the display language)
- d. While desired item is being displayed, **use the digit keys** to change or enter new data.
- e. **Then press STORE** to save in memory.
- f. **Press Disc** key or continue to press STORE until you get to ALL SETUP OK to exit programming mode. Press DISC before STORE key will result in losing that menu's programming.
- g. If no key is pressed for 60 seconds or the phone rings while programming, the phone will **automatically exit** programming mode.

Bracket - Wall Mounting / Desk Mounting...

The SpectrumPLUS Series telephone bracket is designed to conveniently slide into place for wall or desk installation.

Wall Installation:

1. Slide the handset clip # 3 out and then rotate the handset clip 180 degrees returning to its original location. The slot in the handset will hook into it when hanging.
2. Turn base over so you are now looking at the underside of the phone.
3. Place bracket with wide end toward the bottom of the base # 40.
4. Slide bracket into slots provided, push up to secure into bracket channel # 38.
5. Attach 6 inch line cord to phone receptacle then into wall outlet.
6. Place phone bracket onto wall bracket and slide down until secure.

Desk Installation:

1. Turn base over so you are now looking at the underside of the phone.
3. Place bracket with wide end toward the top of the base # 39.
4. Slide bracket into slots provided, push up to secure into bracket channel # 38.
5. Slide locking tab to the right # 37.



Bracket - Desk Mounted



Bracket - Wall Mounted

Steps 18. LIVE DIAL PAD

This feature sets up the telephone keypad for On Hook (when the handset is hung up) dialing.

When the LIVE DIAL PAD 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. Before lifting the handset, the 'Delete' key can be used to correct mistakes. Lift the handset to complete the dialing of the number you have entered.

When LIVE DIAL PAD is ON, and the handset is ON HOOK, the dial tone on the speakerphone activates immediately upon pressing the keypad. You may not use the 'Delete' key to correct phone numbers when the dialpad is 'ON'.

Steps 19. SDT

This item controls the 'Stutter Dial Tone detector'. This is an alternative way to permit the 'message waiting lamp' in the phone to function on phone systems which do NOT normally support message-waiting lamps.

Normally this item should be set to SDT OFF. But if your VoiceMail key is NOT lighting up or flashing to notify you after someone has left a voice-mail message, this menu item may be changed to ON in order to activate automatic detection of stutter dial tone.

Steps 20. ALL SETUP OK

Congratulations, you are officially finished programming the Spectrum PLUS telephone!

After reaching this stage the phone will return the normal 'on-hook' display screen.

Steps 1. - 5. MONTH, DAY, MINUTE, AM-PM

Press STORE key to initiate Programming sequence.

As you get to each screen - enter digits either by the dialpad or by using the volume rocker key to increase or decrease values. Then press STORE to save data and advance to next menu.

Step 6. LANGUAGE SELECTION

Select preferred language by following prompt on LCD screen.

1 = English 2 = French 3 = Spanish

Steps 7. - 10. VOICE MAIL PROGRAMMING

Once these are programmed you will be able to listen to your voicemail messages with a Single Press of the VoiceMail key.

- VOICE MAIL NO - enter your access numbers to get voicemail.
- VM PIN - 'Personal Identification Number' can be programmed into the phone memory when Voice Mail is activated. PIN can also be left blank if your system does not require them.
- VM PIN WAIT TIME- ranges from 0 to 15 sec.

- 1-TOUCH VM - should normally be set on ON, if on OFF the phone must be off-hook before VoiceMail key can be used.

Note!

There is a 'short-cut' for accessing the VoiceMail menu: With phone on-hook, press and release 'Store', then press 'VoiceMail', this jumps straight to VOICE MAIL NO without having to step through all the previous menu items first.



Steps 11.-14. PROGRAMMING DIAL KEY

- OUTSIDE LINE KEY is a prefix digit you must dial first when calling an 'outside' phone number, this is often '9' (or '8'). It may be left blank if you do not need a prefix to dial outside. If it takes a long time to connect - you may need to enter '9P' (9 pause) in order to provide enough time for the dialtone to start up before dialing the rest of the number.
- LONG DISTANCE PREFIX is normally a single digit '1' in North America.
- AREA CODE 1 (and optionally AREA CODE 2) are used to enter your local area code(s). This is for local numbers which can be dialed without an area code (7-digit dialing). If there are 2 local area codes which you can reach with 7 digits, enter them both. Otherwise leave AREA CODE 2 blank.

To test the above programming, try using the 'Dial' key to call back to several different phone numbers displayed in your Call ID. It should be possible to return most Caller ID calls by simply pressing 'Dial'.

To Delete the Access Code: Once LCD display reads VM PIN - press DELETE - then press STORE key again to continue.

Steps 15. CALL WAITING ON

- Set this item to 'CALL WAITING ON' if your PBX or phone company provides 'call-waiting' service. With this service you will hear 2 beep tones and see the caller ID information for a second call which comes in while you are already on a call.
- Select 'CALL WAITING OFF' if call-waiting is not available from your PBX or phone company (Note: Very few PBX systems support call-waiting). Selecting 'CALL WAITING OFF' helps prevent occasional periods of unexpected silence ('dropouts') during calls.

Steps 16. PAUSE TIMING 3.6S

- This menu item sets the delay time of the 'Pause' key. Once set, each 'Pause' digit entered into a speed-dial key memory will pause for the specified time when the speed-dial key is used. 'PAUSE TIMING' affects only the pause length for the speed-dial keys. 'Pause' key can also be used when 'pre-dialing' a phone number before taking a phone off-hook. But this item is independent of the VM PAUSE TIME for voicemail. Each can be set to the value which works best for your phone system.
- PAUSE TIMING data may be entered either in whole seconds (example: 2 'Store' will set it to 2 seconds) or as a seconds and tenths of seconds (4.5 'Store' will set 4.5 seconds). Limits are 1.0 to 5.0 seconds.
 - If a longer pause is needed, the 'Pause' key may be 'stacked' (entered 2 or more times) into a speed-dial key. (Example: If PAUSE TIMING is 3.6 seconds, 2 consecutive 'Pause' digits will produce a 7.2 sec. pause). Each pause counts as 1 digit in the speed-dial memory.

Note!

There is a 'short-cut' for access to PAUSE TIMING: With phone on-hook, press and release 'Store', then press 'Pause'. This jumps straight to this menu item without having to step through all the previous menu items.

Steps 17. FLASH TIME SET

This menu item sets the length of the 'timed break' provided when the 'Flash' key is pressed. A 'flash' (or 'hook flash') is typically needed to access PBX features such as 'transfer' and 'conference'. 'Flash' is also necessary to use '3-way calling', as provided by telephone companies. This item has a default setting of 600mS (milliseconds). FLASH TIME can be set from 100 to 1,000mS. Please note that this item rarely needs to be changed except when a phone is being moved from one PBX system to another.

Note!

'Flash' can be stored into a speed-dial key as a digit. Each 'Flash' counts as 1 digit when stored into a speed-dial key. The 'short-cut' to access this menu item quickly is: 'Store' then 'Flash'.

Base Features and Controls:

- | | | |
|----------------------------|-----------------------------|------------------------------|
| 1. Handset | 4. Scroll LCD up | 7. Delete key |
| 2. Name plate | 5. Scroll LCD down | 8. Dial key |
| 3. Wall mount handset clip | 6. LCD screen (not backlit) | 9. 1-Touch voice mail button |



- | | | |
|------------------------|-------------------------------|-----------------------------|
| 10. Disconnect key | 16. Mute key | 22. Hold key |
| 11. 11 Speed Dial keys | 17. Speaker key | 23. Speaker |
| 12. Store key | 18. Headset ON/OFF key | 24. Phone # faceplate |
| 13. Pause key | 19. Dial pad | 25. Handset cord receptacle |
| 14. Last # Redial key | 20. LCD contrast bar 4-step | |
| 15. Flash key | 21. Volume control bar 8-step | |

LP550 Features:

- Line Powered - Single Line Telephone
- SteelTrap™ Memory Technology (no batteries required)
- FreeSpeech™ Talk Feature: Allows Free Toggle between Handset, Headset and Speakerphone modes.
- Programming Options: Dialing access number, Local area code recognition, Manual date & time, Multiple language options, Live keypad dialing option, Programmable Pause timing, Programmable Flash timing, Voice Mail access, Voice Mail Password dialing, and Speed Dial programming.
- Large adjustable LCD display shows:
 - 100 scrolling Caller ID call records
 - Programmable date & time
 - Name & number
 - Number of messages, new and total
 - Dialing verification (except redial)
 - Elapsed call timer & Functional icons
- Type II Caller ID (Caller ID on Call Waiting).
- 100 Name and Number Call log with editing, scrolling, call back and delete.
- TouchLite™ one-touch message retrieval key. # 9
- Disconnect key to end current call & begin a new call. # 10
- Eleven (11) programmable speed dial locations. # 11
- Programmable Store key. # 12
(used to program features and speed dial keys)
- Programmable Pause key. # 13
(used to program delay in speed dial keys)
- Redial key (redial last number called) # 14
- Programmable Flash key. # 15
(provides a 100mS to 1000mS timed line break)
- Microphone Mute key. # 16
- Speaker and Headset soft keys. # 17 & 18
- LCD screen contrast with 4 step control. # 20
- ADA compliant handset with 8-step volume control # 21 & 25
- Electronic Hold with LED indication. # 22
(optional standard Line or programmable System hold) # 32
- 2-Way Speakerphone (half duplex) # 23
- Convenient Data port. # 26
- Ringer volume settings HI, LOW, OFF. # 30
- Message waiting in settings NEON or LED # 31
(autodetect for SDT and FSK)

CARE AND MAINTENANCE

- **Keep the telephone dry.** If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.
- **Use and store the telephone in a normal temperature environment.** Temperature extremes can shorten the life of electronic devices and distort or melt parts.
- **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 system.

SERVICE

When problems arise during installation or service that cannot be resolved using this or related documents, contact the TeleMatrix Technical Service department 8:30 a.m. - 4:30 p.m. MST: USA.

Toll Free: 1.800.462.9446
Direct: 719.638.8821
Fax: 719.638.8815

Many times a problem can be resolved by contacting a TeleMatrix support agent. 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 trouble that you are experiencing.
2. Include a proof of purchase for a repair warranty.
3. Send the telephone prepaid by UPS or Parcel Post insured to:

TeleMatrix, Inc.
Customer Care Center
5025 Galley Road
Colorado Springs, CO 80915 USA

TeleMatrix will pay to return the repaired telephone to you.

Please feel free to check on its progress by calling PriorityCare 1.800.462.9446.