STARPLUS™
2700 SLT

User Guide

Issue 1
May 1999
Part Number: 2750-00
LIFE SUPPORT APPLICATIONS POLICY

VODAVI Technology, Inc. products are not authorized for and should not be used within Life Support applications. Life Support systems are equipment intended to support or sustain life and whose failure to perform when properly used in accordance with instructions provided can be reasonably expected to result in significant personal injury or death.

VODAVI Technology, Inc. warranty is limited to replacement of defective components and does not cover injury to persons or property or other consequential damages.

Copyright © 1999 VODAVI Technology, Inc.

All Rights Reserved

This material is copyrighted by VODAVI Technology, Inc. Any unauthorized reproductions, use or disclosure of this material, or any part thereof, is strictly prohibited and is a violation of the Copyright Laws of the United States (17 U.S.C. Section 101 et. seq.).

VODAVI reserves the right to make changes in specifications at any time and without notice. The information furnished by VODAVI in this material is believed to be accurate and reliable, but is not warranted to be true in all cases.

STARPLUS™ is a registered trademark of VODAVI Technology, Inc.

Printed in Thailand
Contents

IMPORTANT SAFETY INSTRUCTIONS ..................1
INSTALLATION .............................................2
  Contents ..............................................2
  Desk Telephone .......................................2
  Wall Mounting ........................................2
  Connecting a Modem to Your Telephone ..........3
  Volume ...............................................4
    Setting the Ringer Volume Switch ...............4
    Setting the Speakerphone Volume Switch ......4
    Setting the Handset Volume .....................5
    Setting the B/Z type ringer ....................5
  Directory Card ......................................5
OPERATION ...............................................5
  Changing From Handset to Speakerphone ........5
    While using the handset .......................5
    While using the speakerphone .................6
  Hold (2702 & 2703 Models) ......................6
    To place a call on hold .......................6
    To retrieve a call from hold .................6
  HOLD (2704 & 2705 Models) ......................6
    To place a call on hold .......................6
    To retrieve a call from hold .................6
  Message Waiting Indicator .......................6
  Flash ...............................................7
  Last Number Redial ................................7
    To dial the last number dialed from your phone
      (2701/2702/2703 Models) .......................7
    To dial the last number dialed from your phone
      (2704/2705 Models) ..............................7
  Mute ...............................................7
  Memory Dialing (2702, 2703, 2704, and 2705
    Models) ..........................................8
    To store a telephone number in memory ........8
    To clear a number from a speed button ........8
To dial a telephone number stored in memory ..................8
Conferencing (2704/2705 Models) ..................................8
To terminate a conference ...........................................9
To converse with only the first party or second party
after establishing a conference .....................................9
To terminate a conference, placing both lines on
Hold ...........................................................................9

PROGRAMMING ................................................................10
Tone/Pulse .....................................................................10
Flash Timing ..................................................................10
Pause Timing .................................................................11
S/W Reset ......................................................................11
Positive Disconnect ........................................................12
A-Lead .........................................................................12
Data Jack ....................................................................12

REGULATORY INFORMATION .................................................12
FCC Part 68 Compliance ...............................................12
Installation ....................................................................13
Ringer Equivalence Number ..........................................13
Incidence of Harm .......................................................13
Telephone Company Rights ..........................................13
FCC Part 15 Compliance ...............................................14
UL Compliance .............................................................14

WARRANTY INFORMATION ..................................................14
IMPORTANT SAFETY INSTRUCTIONS

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

□ Read and understand all instructions.

□ Follow all warnings and instructions marked on the telephone.

□ Do not use liquid cleaners or aerosol cleaners on the telephone; use a damp cloth for cleaning.

□ Do not operate the telephone near water (i.e., near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool).

□ Do not place this telephone on an unstable cart, stand, or table. The telephone may fall causing serious damage to the telephone.

□ Slots and openings on the bottom of the telephone are provided for ventilation to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the telephone on the bed, sofa, rug, or other similar surface. This telephone should never be placed near or over a radiator or heat register. This telephone should not be placed in a built-in installation unless proper ventilation is provided.

□ Never push objects of any kind into this telephone through slots as they may touch dangerous voltage points or short-out parts that could result in a risk of fire or electric shock. Never pour liquid of any kind on the telephone.

□ To reduce the risk of electric shock, do not disassemble this telephone. Take the telephone to a qualified serviceman when service or repair work is needed. Opening or removing covers may expose you to dangerous voltage or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.

□ Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

□ Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS
INSTALLATION

Contents

The 2700 SLT comes with the following parts necessary for operation of your telephone. Verify that all are included prior to beginning installation:

1 - Vodavi 2700 SLT
1 - Handset
1 - Handset cord
1 - 12’ line cord (desk mount)
1 - 4” line cord (wall mount)
1 - Pedestal (desk mount)
1 - User Guide (this book)

Desk Telephone

1. Snap the pedestal into place on the bottom of the phone (refer to Figure 1 on the next page).
2. Plug one end of the handset cord into the handset and plug the other end into the jack on the bottom of the phone. Route and secure the cord in the channel provided on the bottom of the phone.
3. Set the B/Z ringer switch.
4. Plug one end of the line cord into the LINE1 jack and plug the other end into the jack outlet on the wall. On 2-line models, both LINE1 and LINE2 jacks may be used.

Wall Mounting

Your telephone is designed for GTE- and AT&T-type RJ11W wall jack mounting. If desired, the telephone can be converted for wall mounting by performing the following steps (refer to Figure 1):

1. If installed in the desk mode, unplug the line cord and remove the pedestal.
2. Reconfigure the wall mount tab for wall installation by first removing the number designation strip with a paper clip to expose the tab. Rotate the tab and reinstall it into the housing.
3. Plug one end of the line cord into the LINE1 jack. Route the cord through the channel on the base. Plug the other end of the cord into the jack outlet on the wall.

4. Align the mounting holes on the base with the mounting posts on the jack outlet.

5. When the base is positioned onto the posts, move the phone down to secure the base to the jack outlet.

---

**Figure 1: Bottom of 2700 SLT**

**Connecting a Modem to Your Telephone**

All models have the capability to provide a connection to a modem. This connection may be established by means of a computer equipped with modem function or a modem connected by hard-wiring. This
feature allows data transmission via the DATA jack on the right side of the telephone. On 1-line models (2701, 2702, 2703), LINE1 is used for modem transmissions. On 2-line models (2704, 2705), LINE2 is used for modem transmissions.

1. Locate the DATA jack on the right-side of the phone \( (\text{Lift the rubber cover from the jack to allow the line cord to be inserted}) \).

2. Locate the telephone jack connection on the modem. Connect a line cord to the jack on the modem and plug the other end of the cord into the DATA jack on the phone (RJ11 connection).

The modem is now connected through your telephone on LINE1 or LINE2. Calls can be originated and passed to the modem. Consult the instructions provided with your modem for operation.

On 2-line models (2704, 2705), LINE2 can be used as a normal line for incoming and outgoing calls when the modem is not in use.

Volume

Setting the Ringer Volume Switch

The switch is located on the right side of the telephone. You may set the switch to HI for high volume, LO for low volume, or OFF to turn the ringer volume off. When the switch is moved to the OFF position you will not hear ringing from the telephone. However, an extension telephone will ring during an incoming call. Two-line models have two volume switches, one for each line.

The 2702 and 2704 models are hospitality models and do not have an OFF ringer position. These models have LO and HI ringer positions only.

Setting the Speakerphone Volume Switch

Speakerphone models are equipped with a sliding volume switch to adjust the speakerphone volume. Slide the switch toward you for lower volume or away from you for higher speakerphone volume.

Speakerphone models are the 2702, 2703, 2704, and 2705.
Setting the Handset Volume

Each model has a volume button that can be pressed to increase or decrease the handset volume.

Setting the B/Z type ringer

The B/Z ringer switch is located on the bottom of the phone near the LINE jacks. This switch should be set to the Z mode for business/hospitality applications and the B mode for residential applications.

The MSG light and the Line In Use (LIU) LEDs will not operate when set in the B ringer mode.

Directory Card

Frequently dialed numbers may be recorded on the lined card. For models with speed dial memory, the card is used to record the telephone numbers you store in the One-Touch speed dial memory. To remove the card place a paper clip in the hole located at the top of the overlay covering the card. Gently lift to expose the card.

OPERATION

If you have a 2-line model, press the appropriate line button before lifting the handset or pressing the SPKR button. The green LIU indicator will then illuminate on your phone (as well as extension phones with LIU indication) when you lift the handset or press the SPKR button. Each line button has two indicators. The green indicator is illuminated when the line is in use. The red indicator is illuminated when the line is placed on Hold or to show an incoming call.

On 1-line models, the HOLD button functions as a LIU indicator. This LED will be green when you lift the handset or press the SPKR button. This LED will be red when a call is waiting to be answered.

Changing From Handset to Speakerphone

While using the handset

1. Press the SPKR button.

2. Hang up the handset (the SPKR indicator will light).
While using the speakerphone
   1. Lift the handset and the SPKR indicator will turn off.

**Hold (2702 & 2703 Models)**

**To place a call on hold**
   1. Press the HOLD button (the Hold indicator will illuminate red).
   2. Hang-up the handset.

**To retrieve a call from hold**
   1. If you have already hung-up the handset, lift the handset or press the SPKR button on your phone.
   2. If the handset is not hung-up, press the HOLD button to resume conversation (hold indicator will illuminate green).

**HOLD (2704 & 2705 Models)**

**To place a call on hold**
   1. Press the HOLD button (the Line indicator will illuminate red for that line).

**To retrieve a call from hold**
   1. Lift the handset or press the SPKR button on your telephone or an extension telephone.
   2. Press the line button where the call is on Hold (Line indicator will turn green).

![Image]

If the call was placed on HOLD without hanging up the handset, after 30 seconds the call is re-connected to the phone in the MUTE state. You must press the MUTE button to resume conversation.

**Message Waiting Indicator**

If you have telephone messaging service the MSG lamp will illuminate to indicate a message is waiting. Information regarding the availability and operation may be obtained through your service. For 2-line models (2704/2705), the MSG lamp will illuminate for messages on LINE1 only.
Flash
The Flash feature allows you to access features available through Custom Calling services. Flashes may be stored in the telephone memory.

1. Press the FLASH button while on a call to generate a flash.

Last Number Redial
To dial the last number dialed from your phone (2701/2702/2703 Models)

1. Lift the handset or press the SPKR button (Models 2702/2703).
2. Press the REDIAL button. The number will automatically dial-out on the phone.

To dial the last number dialed from your phone (2704/2705 Models)

1. Press a LINE button.
2. Lift the handset or press the SPKR button.
3. Press the REDIAL button. The number will automatically dial-out on the phone.

The last number dialed from the phone will be stored when you hang up. Last Number Redial memory can store a telephone number up to 48-digits in length.

Mute
To mute your voice from the person you are conversing with on the telephone during a call:

1. Press the MUTE button (the red Mute indicator will illuminate).
2. Press the MUTE button again to resume your involvement in the conversation (the Mute indicator will turn off).

Memory Dialing (2702, 2703, 2704, and 2705 Models)
Ten frequently dialed telephone numbers can be stored in the telephone memory. A number stored in memory can be accessed with one-touch of a speed dial button. A lithium battery is used to retain
the telephone numbers stored in memory when the telephone is unplugged. Therefore, no additional batteries are required.

The STORE button on the 2702/2704 models is located underneath the overlay. The overlay must be removed to gain access to the STORE button.

To store a telephone number in memory
1. Lift the handset.
2. Press and hold the STORE button until dial tone ceases, and a beep is heard.
3. Press one of the ten speed dial buttons where you want to store that telephone number.
4. Dial the number to be stored in memory. (0-9, *, #, REDIAL button=Pause, FLASH=Flash).
5. Press the STORE button. Confirmation tone is heard and the number is stored.

To clear a number from a speed button
1. Lift the handset.
2. Press and hold the STORE button. Dial tone will cease and a beep is heard.
3. Press one of the ten speed dial buttons where you want to store that telephone number.
4. Press the STORE button. Confirmation tone is heard and the number is cleared.

To dial a telephone number stored in memory
1. Lift the handset or press the SPKR button.
2. Press the speed dial button where you stored the telephone number.

Conferencing (2704/2705 Models)
Perform the following steps to initiate a Conference call:
1. Select the desired line and dial first party’s telephone number.
2. When first party answers, advise that a conference call is being established and then press the CONF button once. The red Conference LED will blink at a 60-IPM rate.
3. Press the other LINE button; first line is placed in a HOLD state automatically.
4. Dial the second party's telephone number.
5. When the second party answers, advise that a conference call is being established and then press the CONF button again. The first call removed from the HOLD state and the 3-way conference call is now established.
6. The red Conference LED illuminates steady. The green line LEDs remain lit.

If the second party's line is busy, press the first LINE button to return to the first party. The first party is removed from held state and resumes conversation with originator. The Conference LED will extinguish. The Conference set up is cancelled when the second party's line is removed (not added to the call) and the second party's line is pressed, the line returns to the first party automatically.

To terminate a conference
1. The telephone is placed in the On-Hook idle state (hang up the handset or press the SPKR button if in SPKR mode).
2. The red Conference LED will extinguish; the green Line LED will extinguish.

To converse with only the first party or second party after establishing a conference
1. Press the Line button for desired conversation.
2. The red Conference LED will extinguish; the Line LED will illuminate steady for the selected line and the other line will be disconnected.
3. Resume the conversation.

To terminate a conference, placing both lines on Hold
1. Press the HOLD button.
2. The red Conference LED will extinguish; the LIU LEDs will illuminate steady red.
3. Both the first and second parties will be placed in the HOLD state.
PROGRAMMING

To enter the programming mode:

1. The telephone line cord must be installed first. Lift the Handset.
2. Press and hold STORE button until a beep is heard.
3. You may now program the Tone/Pulse mode, Flash timing, Pause Timing, or Positive Disconnect.
4. Hang-up to end the programming mode. All programming is stored consecutively after entering the programming mode.

Tone/Pulse

Default setting is TONE. To set the telephone to PULSE:

1. After entering the programming mode, press #.
2. A confirmation beep will be heard at the end of the program sequence.

To set the telephone back to TONE:

1. After entering the programming mode, press *.
2. A confirmation beep will be heard at the end of the program sequence.

Flash Timing

The default setting is 500 Msec.

1. To set the telephone to a different setting press the appropriate sequence on the keypad that corresponds to the desired setting.

<table>
<thead>
<tr>
<th>For the Setting (Msec)</th>
<th>Program Sequence (Press Flash, then Dial #)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>3</td>
</tr>
<tr>
<td>400</td>
<td>4</td>
</tr>
<tr>
<td>500</td>
<td>5</td>
</tr>
<tr>
<td>600</td>
<td>6</td>
</tr>
<tr>
<td>700</td>
<td>7</td>
</tr>
</tbody>
</table>
Table 1: Flash Timing Program Sequences

<table>
<thead>
<tr>
<th>For the Setting (Msec)</th>
<th>Program Sequence (Press Flash, then Dial #)</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>8</td>
</tr>
<tr>
<td>900</td>
<td>9</td>
</tr>
</tbody>
</table>

2. A confirmation beep is heard following the program sequence.

**Pause Timing**

Default setting is 2 sec.

Table 2: Pause Timing Program Sequences

<table>
<thead>
<tr>
<th>For the Setting (sec)</th>
<th>Program Sequence (Press Redial, then Dial #)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

**S/W Reset**

To clear all data:

1. Hang-up.
2. Press and hold the keypad buttons 1, 4, and 7 simultaneously.
3. While still holding the buttons, lift the handset.
4. On releasing the pressed buttons, all of the data will be cleared, and previously stored settings will return to the factory-installed defaults.
Positive Disconnect

Enter Programming Mode. Default setting is Enabled. To Disable the positive disconnect, press 0; to Enable it again, press 1.

A-Lead

A-Lead is available on the 2701, 2702, and 2703 Models. The A-Lead Connection is done via the LINE1 jack outer pairs (Figure 2).

![A-Lead Connection Diagram]

Figure 2: A-Lead (available on 2701, 2702, and 2703 Models)

Data Jack

The data jack on the 2704 and 2705 Models is wired to LINE2 from the factory. This can be changed so that LINE1 can be used for data applications. To change from LINE2 to LINE1, perform the following steps:

1. Unscrew the four (4) screws on the bottom of the telephone.
2. Separate the bottom housing from upper housing.
3. Remove wire/plug located on connector CN12 (LINE2).
4. Replace wire/plug on Connector CN11 (LINE1).
5. Reassemble telephone. Make sure all wires are plugged in when re-assembling.

REGULATORY INFORMATION

FCC Part 68 Compliance

These telephones are hearing-aid compatible and comply with Part 68 of the Federal Communications Commission (FCC) rules. On the bottom of the phone is a label that contains, among other information,
the FCC registration number and Ringer Equivalence Number (REN) for the phone. If requested, this information must be provided to the telephone company.

**Installation**

The modular telephone outlet or jack to which the telephone must be connected is a Universal Service Order Code (USOC) RJ11C or RJ11W. For modem interface purposes on 2-line models, the connection may be made using a USOC RJ14 type jack. The telephones are registered to operate in Central Office (CO), private branch exchange (PABX), key system and Centrex applications. The phones cannot be used on telephone company-provided coin service. Connection to Party Line Service is subject to state tariffs.

**Ringer Equivalence Number**

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all, areas the sum of the RENs should not exceed 5. To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

**Incidence of Harm**

If this equipment causes harm to the telephone network the telephone company will notify you in advance that temporary discontinuance of service may be required.

If advance notice isn't practical, the telephone company will notify you as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

**Telephone Company Rights**

The telephone company may make changes in its communications facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications to maintain uninterrupted service.
FCC Part 15 Compliance

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.
- Changes or modifications not expressly approved can void the user's authority to operate the equipment.

UL Compliance

These telephones comply with UL 1459, second edition requirements and bear the NRTL/C label denoting compliance. For your own protection, please observe the following:

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

WARRANTY INFORMATION

If trouble is experienced with the telephone, please contact your servicing agent/distributor for repair and/or warranty information.