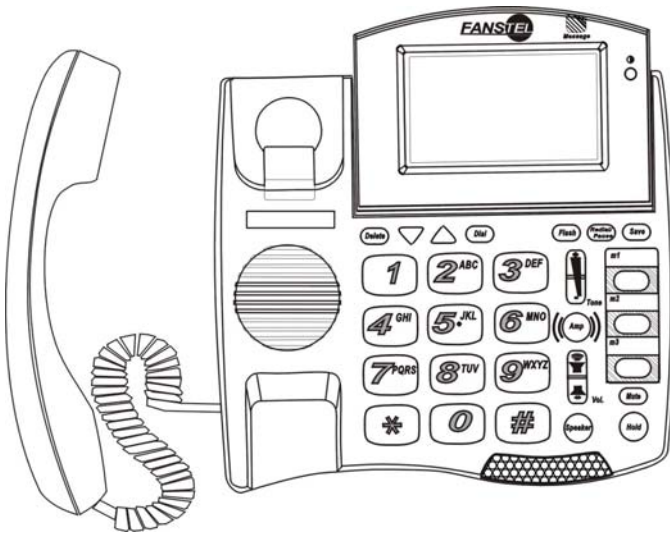




# Call Waiting ID Speakerphone Featuring Digital Sound Enhancement



## Model ST45, ST50 Installation Guide & User Manual

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# Setting Up and Installing Your Phone

## Introduction

Congratulations on the purchase of your new telephone. It has been manufactured to very high quality standards for convenient and reliable service. This telephone can be used with "Call Identification (CALLER ID) Service" and/or "Call Waiting CALLER ID Service" that is provided by your local telephone company. There is a fee for these services by your local telephone company, and they may not be available in all areas. When used with these services, your telephone displays the telephone number or the telephone number and name of each caller before you answer the call allowing you to screen your calls.

In addition to CALLER ID services, if you subscribe to voice mail services from your local telephone company, voice mail waiting indicators will inform you there is a message waiting in your voice mailbox.

## Important Safety Instructions

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

1. **Read and understand all instructions.**
2. **Follow all warnings and instructions marked on the product.**
3. **Unplug this product from the telephone jack and the power outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.**
4. **Do not use this product near water, such as near a bathtub, sink, laundry tub, in a wet basement, or near a swimming pool.**
5. **Do not place this product on an unstable cart, stand, or table. Serious damage may result if the product falls.**
6. **Slots or openings in the cabinet and the back and bottom are provided for ventilation to protect the phone from overheating. These openings must not be blocked or covered. The product should never be placed near or over a radiator or heat register.**
7. **This product should be operated only from the type of power source indicated on the marking label.**
8. **Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it. Do not attach the power cord to building surfaces.**
9. **Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.**
10. **Never push any objects into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.**
11. **If this product does not operate normally, see the "*In Case of Difficulty*" section in this owner's manual. If you cannot resolve the problem, or if the product is damaged, refer to the "*Limited Warranty*" section of this owner's manual. Opening the product or reassembling it incorrectly may expose you to dangerous voltages or other risks, and will void the warranty.**

12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: (a) When the power supply cord or plug is damaged or frayed. (b) If liquid has been spilled into the product. (c) If the product has been exposed to rain or water. (d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. (e) If the product has been dropped or the cabinet has been damaged. (f) If the product exhibits a distinct change in performance.
13. Avoid using a telephone during an electrical storm. There may be a remote risk of electric shock and/or hearing damage from lightning.
14. Do not use the telephone near a gas leak even to report the leak.

### **Parts Checklist**

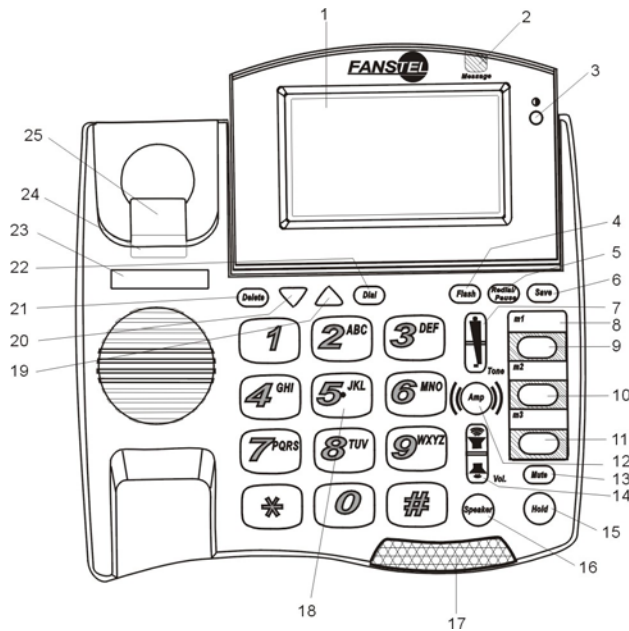
**Remember to save your sales receipt in case you ever need warranty service.**

Check to make sure your package includes the items described below:

- |                               |                         |
|-------------------------------|-------------------------|
| <b>1. Telephone Base</b>      | <b>4. AC/DC Adapter</b> |
| <b>2. Telephone Handset</b>   | <b>5. Handset Cord</b>  |
| <b>3. Telephone Line Cord</b> |                         |

Make sure you have a modular wall jack near the place you have chosen to install the telephone. If you have an older phone jack, you will need to buy a modular jack adapter.

## Controls and Functions

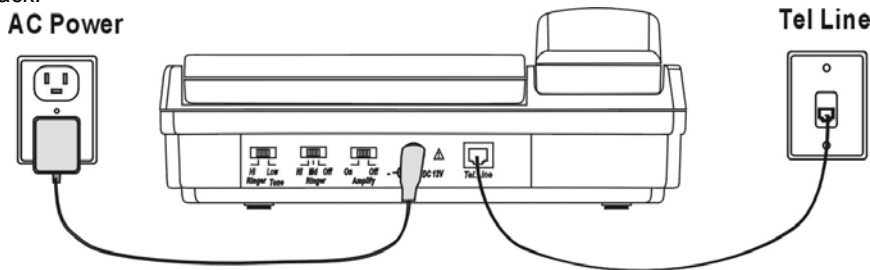


1. **LCD display**
2. **Message light** - Visual message waiting indicator.
3. **o button** – to adjust LCD contrast.
4. **Flash button** – during a call, to access telco's calling features.
5. **Redial/Pause button** – to redial last number, or to insert 3 seconds delay during memory button programming.
6. **Save** – to begin programming of memory buttons.
7. **Tone button** – to adjust tone or frequency-specific amplification in amplified mode.
8. **Overlay paper**
9. **M1 – programmable memory button**
10. **M2 – programmable memory button**
11. **M3 – programmable memory button**
12. **Amp. Button** – to enter or to exit amplification mode.
13. **Mute button** – to mute transmitter.

- 14. **Vol. Button** – to adjust receiver volume for handset and audio output.
- 15. **Hold button** – to put a call on hold.
- 16. **Speaker button** – to activate or deactivate speakerphone.
- 17. **Visual ringer and in-use indicators**
- 18. **Telephone keypad**
- 19. **▲** - to review upward from the oldest caller ID record.
- 20. **▼** - to review downward from the newest caller ID record.
- 21. **Delete button** – to delete one or all Caller ID records, or Message light.
- 22. **Dial button** – to dial number displayed or to accept entry
- 23. **index card**
- 24. **Handset tab**
- 25. **Hook switch**

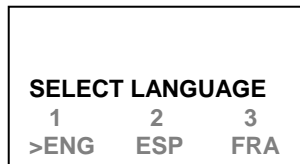
## Installation

1. Plug one end of the flat telephone line cord into the line jack on the back of the phone where it is labeled "**TEL.LINE**" and plug the other end into your modular telephone wall jack.



2. Connect one end of the coiled **Handset Cord** to the jack on the left side of the phone and connect the other end of the coiled Handset Cord to the jack on the handset
3. Connect the AC adapter to an electrical wall outlet and then connect the AC adapter plug to the "**DC 9V**" jack on the back of the phone. *Use only with a Class 2 power source,  $\ominus$  plug polarity, 9V DC, AC adapter.*

4. **Selecting a language**  
When the phone is powered up for the first time, the display flashes "**SELECT LANUGAGE**" and "**>ENG ESP FRA**".



To select English, press the "**1**" button.  
 To select Spanish, press the "**2**" button.  
 To select France, press the "**3**" button.

Then, press the **Dial** button to confirm the selection.

5. Program your area code

(A) After selecting the language, the display flashes "**ENTER AREA CODE**" and "**7 DIGITS DIAL**".

(B) If you dial your local calls using 7 digits (e.g., 555-1212), then enter your local area code, press the **Dial** button, and go to Step C.

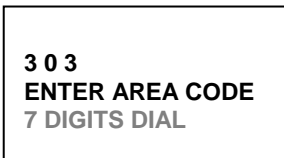
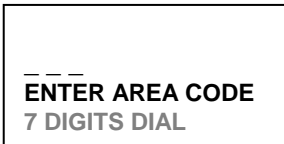
If you dial your local calls using 10 digits (e.g., 303-555-1212), then enter "000" as the area code for 7 digits dial, and press the **Dial** button to go to Step C.

(C) The display flashes "**ENTER AREA CODE**" and "**10 DIGITS DIAL**".

Enter the area code(s) for numbers that you dial using ten digits (e.g., 720-555-1234). You can store up to three area codes for ten-digit dialing. Press **Dial** when you are done. If there is no number you dial using ten digits, then press **Dial**.

6. Press the **Save** button to save these operating settings and to exit the menu mode.

7. After installation, lift the telephone's **Handset** and listen for the dial tone. If there is no dial tone, check to make sure all cords are firmly plugged into their jacks.

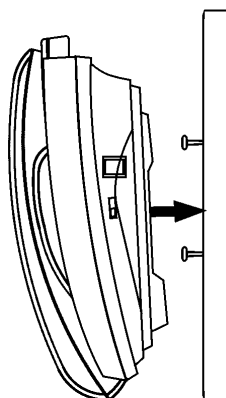
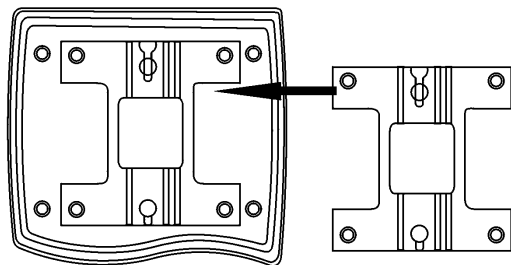


Note: Programming your area code will allow you to easily dial numbers that are in your Caller ID list. See the Section "**Calling Back a Number from the Caller ID List**" for more information on dialing calls from your Caller ID list.

## Wall Mounting

To mount the telephone on the wall, you must reverse the **Handset Tab** on the base of the phone and attach the **Wall Mount Bracket** to the bottom of the phone.

1. Remove the **Handset** from the **Handset Cradle** and slide the plastic **Handset Tab** (located just below the **Hook Switch**) up and out of its slot.
2. Turn the **Handset Tab** around and reinsert the tab back into its slot so that the plastic tab extends outward acting as a hook to hold the **Handset** when mounted on the wall.
3. Turn the phone over so that you are looking at the bottom of the phone. Insert tabs at the thin end of the wall mount bracket into the holes at the rear of the phone bottom. Press and latch the tabs at the thicker end of the wall bracket into holes at the front end of phone. The back of





the phone should then have two round plastic holes that can be used to hang your phone on the wall.

4. Use the two round holes to hang the phone on the wall plate on your wall.

**Important Note:** If you do not wish to mount your phone on the wall, the **Wall Mount Bracket** can be reversed to raise the angle of the phone's display when sitting on a table or desk.

### **Adjusting the Display Angle**

You can optimize the LCD display by adjusting the viewing angle. To adjust the LCD viewing angle, move the rear edge of the LCD module up or down.

### **Adjusting the Display Contrast**

The display can be adjusted to suit the light level of your room and your viewing preference. To make the contrast of the display lighter or darker, press the **ⓘ** button to the right of the screen until the desired contrast is reached.

### **Amplify or Volume Reset Override**

If you set the **Amplify** switch on the back of phone to **On**, volume reset feature is disabled. Handset and headset receiver volume level is the same as that of last call.

If the **Amplify** switch is set to **Off**, handset and headset receiver volume level is reset when phone is on-hook.

**Warning:** Possible loud receiver volume when the **Amplify** switch is set to **On** and the **Amplify** LED is lit.

## Adjusting the Ringer Volume

The "**RINGER**" switch on the back of the phone controls the volume. You can set the "**RINGER**" switch to "**Hi**" for a high volume ring, "**Md**" for a middle volume ring or "**Off**" to turn the ringer off.

The Visual ringer flashes for all incoming calls regardless of the ringer setting.

**Important Note:** If you turn the "**RINGER**" switch to "**OFF**" and you do not have any other phones that ring you will not hear the phone ring when a call comes.

## Adjusting the Ringer Tone

You set the ringer tone to high or low by moving the Ringer Tone switch at the back of phone.

## Adjusting Handset Receiver Volume

To adjust the handset receiver volume:

1. Lift the handset and listen to the dial tone.
2. Press the top side of the **Vol.** button to increase the receiver volume.
3. Press the bottom side of the **Vol.** button to decrease the receiver volume.
4. Replace the handset when the desired receiver volume is reached.

## Selecting the Best Volume and Tone Amplification Setting

### **Warning: Excessive handset receiver volume in amplification mode.**

When increasing handset receiver volume, sounds of all frequencies are amplified equally. With frequency-specific tone amplification, the high frequency sounds are amplified more than the low frequency sounds so words are not just louder, but clearer and easier to understand.

By combining the normal volume amplification and frequency-specific tone amplification, you can select an amplification setting that is the most suitable for your hearing needs.

To select the best volume and tone amplification setting:

1. Lift the handset and make a call to a person with typical voice volume in a phone call.
2. Press the **Amp** button to enter, if not in tone amplification mode.
3. Press the top side of the **Vol.** button to increase handset receiver volume or press the bottom side to decrease it.
4. Press the top side of the **Tone** button to increase frequency specific tone amplification, or press the bottom side to decrease it.
5. Stop adjustment when you can hear words most clearly.

6. This set of volume and frequency specific tone amplification settings are saved automatically when you replace the handset.

Note: If you adjust volume and/or tone amplification settings during a phone call, the new settings are saved automatically.

### **Adjusting Audio Output Volume**

You can plug in an external speaker with 3.5 mm plug to amplify receiver volume. Tone and volume amplification is adjusted with handset receiver volume. In addition, you can adjust volume on speaker.

### **Adjusting Speakerphone Receiver Volume**

To adjust the speakerphone receiver volume:

1. Press the **Speaker** button and listen to the dial tone.
2. Press the top side of the **Vol.** button to increase the receiver volume.
3. Press the bottom side of the **Vol.** button to decrease the receiver volume.
4. Press the Speaker button or the Goodbye button when the desired receiver volume is reached.

Note: **Tone** and **Amp** buttons are used in the handset mode only. They won't work in the speakerphone mode.

# Using the Telephone

## Making a Call

1. Pick up the **Handset** or press the **Speaker** button, and listen for a dial tone.
2. Using the **Keypad**, dial the desired telephone number. The number you are dialing will appear on the display as you dial. When making a call or talking on the phone, the "**In Use**" light will turn on indicating the phone is in use. This light will also be on whenever another phone on the same phone line is in use.

## Editing Telephone Number before Dialing

You can enter the telephone number you wish to dial before lifting handset or pressing the **Speaker** button.

1. Use the keypad to enter the telephone number. The number is displayed on the screen.
2. If you enter one or more wrong digits, press the **Delete** button one or more times till incorrect digits are erased.

When all digits of a telephone number are entered correctly, press the **Dial** button. The speakerphone is activated and the telephone number is dialed automatically. If you desire to use the handset instead of the speakerphone, simply pickup the handset after pressing the **Dial** button.

## Receiving a Call

1. When you hear the phone ring, simply pick up the handset from the handset cradle. You may also press the **Speaker** button to answer the call using the speakerphone.
2. When you are finished talking, replace the handset in the handset cradle to end the call. If you have been talking using the speakerphone, press the **Speaker** button to hang up.

## Receiving a Call Waiting Call

If you subscribe to call waiting services and are on a call when another caller calls your phone number, you will hear a "beep" indicating there is another call coming in. If you subscribe to Call Waiting ID services, the caller's name and number can be displayed on the screen. To answer the waiting call and/or switch between calls:

1. Press and release the **Flash** button to put the current call on "hold" and to answer the incoming call. To switch back and forth between the two calls, press and release the **Flash** button.
2. When a Call Waiting call comes in, you may also hang up the current call in order to pick up the waiting call. When you are on a call you want to end and another call comes in, hang up the telephone. The current call will be disconnected and after a temporary delay, the phone will ring, allowing you to answer the waiting call.

## Switching Between the Handset and the Speakerphone

To switch a call between the **Handset** and the **Speakerphone** during a conversation:

1. While talking on the handset, press the **Speaker** button to activate the speakerphone. The call can now be heard from the speakerphone.
2. While talking on the speakerphone, simply lift up the handset and the call will be transferred to the handset and will no longer be heard on the speakerphone.
3. Hang up the handset. Hanging up the handset will **not** disconnect the call when the Speakerphone is activated. You have to press the **Speaker** button to disconnect the call.
4. If the speakerphone is not activated, simply hang up the handset and the call will be disconnected.

## Enabling Amplification for Handset Receiver

If you press the **Amp** button during a call, phone will toggle between amplification on and off mode. If you adjust frequency-specific tone amplification in the amplification on mode, new settings replace the old ones automatically. The amplification settings will be reset back to the normal volume automatically after the handset is hanged off or on-hook.

## Redialing

You can redial the last number you called with just one touch of the **Redial** button. This lets you easily redial the same number again if the line was busy.

1. Pick up the handset or press the **Speaker** button and listen for a dial tone.
2. Press the **Redial** button and the last number you dialed will be shown on the display and will be automatically dialed.

## Putting a Call on Hold

The **Hold** button allows you to place a call on "HOLD" without disconnecting the call. When a call is on hold, you may hang up the handset without disconnecting the call.

1. Press the **Hold** button and the current call will be placed on hold. If you were talking with the handset, you can then place the handset back in the handset cradle without disconnecting the call. If you were talking with the speakerphone, the call is placed on hold. The red Hold light inside the **Hold** button is lit when a call is on hold.
2. To continue the conversation, pick up the handset or press the **Speaker** button.

## Muting a Call

In addition to putting a call on hold, muting a call is a good way to mute the phone so that the person on the other end of the line will not hear what you are saying. You can continue to hear the person on the other end.

1. Press the **Mute** button to mute the call. While a call is muted, the mute light inside the **Mute** button is lit.

2. To release the mute, press the **Mute** button again and you will be able to continue the conversation. **Do not** hang up the phone while a call is muted or the call will be disconnected.

## Storing a New Number in the Memory Buttons

To store a new number in the memory buttons:

1. Press the **Save** button when the display shows no caller's number or name. The "**SAVE TO?**" prompt appears on the display.
2. Press the memory button where you wish to store this telephone number (e.g., **M1**). The "**ENTER NUMBER>**" prompt appears on the display.
3. Use the keypad to enter the telephone number, including the long distance prefix that you need to dial this number. Insert a pause or multiple pauses where required by using the **Pause** button. Then press the **Save** button.
4. The display will read "**PROGRAMMING OK!**".

**SAVE TO?**

**#00**  
**ENTER NUMBER>**

**#00**  
**4809484928**  
**USE SAVE TO END**

## Copying the Caller's Number to a Memory Button

When the caller's number you wish to store in a memory button is displayed during CALLER ID review, press the **Save** button. The 3<sup>rd</sup> line of the display indicates "**SAVE TO?**".

You can save this caller's number into a memory button by pressing the desired memory button (e.g., **M1**). The display will read "**PROGRAMMING OK!**".

**#25**  
**480-948-4928**  
**FANSTEL CORP**

**SAVE TO?**

# CALLER ID

## CALLER ID Service and Call Waiting CALLER ID Service

The "CALLER Identification" service (CALLER ID) allows the caller's phone number and/or name to be shown on the display as the call comes in before you pick up the phone. In order to use this feature, **YOU MUST FIRST SUBSCRIBE TO THE CALLER ID SERVICE** provided by your local telephone company. The name of this service may vary depending on your telephone company. Before using this feature, please make sure you have properly entered your area code as explained in the "Programming Your Area Code" step of the Introduction section of this manual.

**Important Note:** When a new call comes in, you must let your phone ring at least 2 full times in order for the CALLER ID information to be displayed.

The Call Waiting CALLER ID service allows the phone number and/or name of a waiting caller to be shown during a telephone conversation. To use this feature, **YOU MUST FIRST SUBSCRIBE TO CALL WAITING CALLER ID SERVICE** with your local telephone company. The name of this service may vary depending on your telephone company.

## CALLER ID Display

When you receive a call, the phone number appears on the display with the day and time the call was received and is then stored in the *Call Memory* as shown.

10:30am 8/11 #20  
**480-948-4928**

If your CALLER ID service includes the caller's name, then the caller's name also appears on the display (up to 15 letters) as shown.

10:30am 8/16 #60  
**480-948-4928**  
**FANSTEL CORP**

The date and time information is received from your telephone company. If the call came from a different time zone, it will still show the time in your area.

The total number of calls that are saved in the *Call Memory* is displayed after the "#" symbol when a call is received. Each call is assigned a call number. The most recent call has the highest number (e.g. "#99") and the oldest call has the smallest number (e.g. "#1"). The phone number of a waiting caller is also registered into the *Call Memory* as another call.

## New Calls and Total Calls

When the phone is not in use, the display indicates the number of new calls that have been received since the last review of the *Call Memory* as well as the total number of calls in memory.

10:30am 8/16  
**25**  
**NEW CALLERS**

## Viewing the CALLER ID List

This CALLER ID telephone automatically stores in the *Call Memory* the CALLER ID information of the last 99 calls received. It keeps track of all calls received, whether they were answered or not. The oldest call in the *Call Memory* is always call #1. The highest numbered call (or call #99 if the *Call Memory* is full) is always the most recent call. If the *Call Memory* is full with 99 calls and a new call comes in, the oldest call, call #1, is automatically deleted to make room in the memory for the new call.

#80 END OF RECORD
----------------------

1. Press the ▼ button to display the most recent call and to move backward through the call records.
2. Press the ▲ button to display the oldest call and to move forward through the call records.
3. When you get to the last call stored in the *Call Memory*, then the "END OF RECORD" message will appear on the display. If the screen indicates "END OF RECORD", press the ▲ button and the screen will display the first record in the *Call Memory*. If you press the ▼ button, the screen will display the last record in the *Call Memory*.

**Important Note:** The telephone's buttons will not work while the phone is ringing, or for a few seconds afterward.

## Calling Back a Number From the CALLER ID List

To easily call back a number from the CALLER ID list:

1. Press the ▼ button or the ▲ button until the number you want to call is displayed.
2. Press the **Dial** button. The number is dialed automatically.

The area code is not dialed when it matches the area code stored for 7 DIGITS DIAL. The area code is dialed for all other numbers. When the area code matches any area code stored for 10 DIGITS DIAL, then the number is dialed as a ten-digit call (e.g., 303-555-1212). When the area code does not match an area code for 10 DIGITS DIAL, the number is dialed as a long distance call (e.g., 1-520-555-1234).

## Deleting a Call From the CALLER ID List

**Important Note:** Be sure to write down on a piece of paper any important phone numbers or information before deleting them from the *Call Memory*.

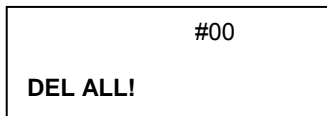
1. Press the ▼ button or the ▲ button until the call information you want to erase is displayed on the screen.
2. Press the **Delete** button once and the selected call is erased from the *Call Memory*. The display shows "DELETED".

#61 DELETED
----------------



## Deleting All Calls from the CALLER ID List

To delete all the calls stored in *Call Memory* at once, press and hold the **Delete** button for 5 seconds. The entire list of calls will be completely cleared and the display shows "**DEL ALL!**".



## Using Call Waiting CALLER ID


If another call comes in during a conversation, your phone will display the "WAITING" message in the upper right hand corner and the incoming caller's information will be displayed on the screen. To pick up the waiting call:

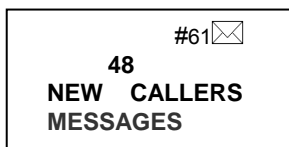
1. Press and release the **Flash** button to put the current call on "hold" and to answer the incoming call. To switch back and forth between the two calls, press and release the **Flash** button.
2. When a Call Waiting call comes in, you may also hang up the current call in order to pick up the waiting call. The current call will be disconnected and after a temporary delay, the phone will ring, allowing you to answer the waiting call.



## Message Indication

The **Message indicator** flashes to indicate a message(s) is in your local telephone company's voice mailbox, if you subscribe to voice mailbox services and your local telephone company delivers a "Visual Voice Message Waiting Indication Signal".

When you have messages waiting in your voice mailbox, the screen will display "**MESSAGES**" and "**NEW CALLERS**" alternatively, and an envelope-shaped **Voice Mail Waiting** icon "  " will flash.



## Accessing Voice Mailbox

Please follow instructions from your voice mail service provider to access your voice mailbox.

## Clearing the Message Waiting Indicator

If you have Voice Messaging service (Voice Mail), whenever you have a new message the display will show "**MESSAGES**" and the red light labeled **Message** will flash. After you

listen to your new message, the message waiting indicators will turn off automatically after a short delay. If these indicators remain on even after you have listened to all your messages, you can manually clear the indicators by pressing the **Delete** button when **"MESSAGES"** and **"NEW CALLERS"** are displayed on LCD, alternatively.

## UNAVAILABLE, PRIVATE CALL and ERROR Messages

Certain messages may appear instead of a caller's name and/or number:

1. The screen will display "UNAVAILABLE" if a call is made through a telephone company which does not offer the CALLER ID service. This can include long distance, international, and sometimes even local phone calls.

```
2:00pm  8/15 #42
-----
UNAVAILABLE
```

2. The screen will display "PRIVATE CALL" if a caller's information is blocked from being transmitted. For privacy reasons, many states allow callers the ability to block his or her telephone information from being displayed on another person's CALLER ID display.

```
2:05pm  8/15 #43
-----
PRIVATE CALL
```

3. The screen will display "ERROR" if the caller's information being transmitted to your telephone is corrupt or contains some errors from the transmission process.

```
                                     #44
-----
ERROR
```

## In Case of Difficulty

### Resetting Your Telephone's Programming

Electrostatic or power surge (e.g., from lightning) may cause the phone to lock up. There are two ways to reset this phone.

#### 1. Basic reset

- Disconnect the telephone line cord from the phone.
- Disconnect the AC adapter from the phone.
- Press the ▼ button or the ▲ button two times. Wait for 10 seconds;
- Reconnect the telephone line cord and the AC adapter to the phone.
- Follow the installation procedures to select the language and to enter the area codes.

#### 2. Full reset

If the basic reset cannot return to the phone to the normal operating condition, you must do a full reset. All information stored in memory will be erased during a full reset.

- Disconnect the telephone line cord from the phone.
- Disconnect the AC adapter from the phone.
- Press the ▼ button or the ▲ button two times. Wait for 10 seconds.
- Press and hold the **Delete** button and the ▲ buttons when reconnecting the AC adapter to the phone.
- Reconnect the telephone line cord.
- Follow the Installation procedures to select the language and to enter the area codes.

### Maintenance Information

Although your unit is designed to be maintenance free, it contains sensitive electronic parts. Treat it with care to assure the best performance.

**Avoid Rough Treatment:** Avoid dropping the unit. The original packaging should be used for protection if you must ship the unit. Dropping or damaging the unit will void the warranty.

**Cleaning:** The hard plastic casing on your unit has a durable finish that should retain its original luster for many years. Clean exposed parts with a soft, slightly damp cloth. To remove stains, use a mild soap. Never use detergents, excess water, treated cloths, harsh cleaning agents, or sprays.

## Troubleshooting

If your product does not work properly, try the following suggestions before seeking repair assistance:

- Check all line cord connections at the wall jack and at the telephone.
- "CALLER Identification" is a subscription service. Non-subscribers of this service cannot receive CALLER Identification information. Make sure that the telephone company has activated your service.
- The telephone receives call information between the first and second ring. If the caller hangs up or you answer before the second ring, the telephone may not receive the call Identification information.
- If you have Call Forwarding Service and your calls are forwarded, the telephone will not receive the caller's information. Calls forwarded using a call forwarding service are typically forwarded before completing the second ring. To receive a caller's information, turn off the Call Forwarding feature.

**Important Note:** Make sure you have followed all the instructions in this booklet. If you continue to have problems, call Fanstel Customer Service at (480) 948-4928.

## Limited Warranty

This warranty applies only to products purchased and used in the United States.

**What Is Covered?** Any defect in materials or workmanship.

**For How Long?** For one year from the date of purchase

**What We Will Do:** If we repair your product, we may use new or reconditioned replacement parts. If we choose to replace your product, we may replace it with a new or reconditioned one of the same or similar design. The repair or replacement product will be warranted for either (a) 90 days or (b) the remainder of the original one year warranty period, whichever is longer.

### ***What We Ask You To Do:***

You must prepay all shipping and handling costs. We suggest you retain your original packing material in the event you need to ship your product. When sending your product for repair service, include your name, address, telephone number with area code, proof of date of purchase, prepaid shipping and handling costs, and a description of the problem. Send all of this to:

**Fanstel Corp. Attn: Warranty Repair**  
7466 E. Monte Cristo Ave.

## **Warranty Limitation**

Implied warranties, including those of fitness for a particular purpose and merchantability (an unwritten warranty that the product is fit for ordinary use), are limited to one year from date of purchase. We will not pay for loss of time, inconvenience, loss of use of your product, or property damage caused by your product or its failure to work, or any other incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not apply to you.

## **What This Warranty Does Not Cover**

This warranty does not cover defects resulting from accidents, damage while in-transit to or from our Product Service Center, alterations, unauthorized repair, failure to follow instructions, misuse, use outside the United States and Canada, fire, flood, and acts of God. We do not warrant your product to be compatible with any particular telephone equipment or party line, key telephone systems or more sophisticated customer premises switching systems. If your product is not covered by our warranty, call us for advice as to whether we will repair your product and other warranty repair information, including required shipping and handling charges. We, at our option, may replace rather than repair your product with a new or reconditioned product of the same or similar design. The repair or replacement product will be warranted for either (a) 90 days or (b) the remainder of the original one year warranty period, whichever is longer.

## **State Law Rights**

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

## **FCC Registration and Repair Information**

Your new product has been registered with the Federal Communication Commission (FCC). This product complies with standards in Part 68 of the FCC Rules. The FCC requires us to provide you with the following information:

### **Connection and Use with the Nationwide Telephone Network**

The FCC requires that you connect your product to the nationwide telephone network through a modular telephone outlet or jack. The modular telephone outlet or jack to which the telephone must be connected is a USOC RJ-11C or RJ-11W. This equipment may not be used with Party Line Service or with Coin Telephone Lines.

### **Notification to the Telephone Company**

The FCC requires that upon request of your local telephone company, you provide the following information: a) The "line" to which you will connect the telephone equipment

(that is, your phone number), and b) The telephone equipment's FCC registration number and ringer equivalence number (REN). These numbers are on the back or bottom of your telephone equipment. The REN is used to determine how many devices you may connect to your telephone line and still have them ring when your telephone line is called. In most, but not all areas, the sum of all REN's should be 5 or less. You may want to contact your local telephone company.

### **Repair Instructions**

If it is determined that your telephone equipment is malfunctioning, the FCC requires that it not be used and that it be unplugged from the modular outlet until the problem has been corrected. Repairs to the telephone equipment can only be made by the manufacturer or its authorized agents or by others who may be authorized by the FCC. For repair procedures, follow instruction outlined under the "*Limited Warranty*".

### **Rights of the Telephone Company**

If your product is causing harm to the telephone network, the telephone company may temporarily discontinue your telephone service. If possible, they'll notify you before they interrupt service. If advance notice isn't practical, you'll be given the opportunity to correct the problem, and you will be informed of your right to file a complaint with the FCC notified as soon as possible.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your product. If such changes are planned, you will be notified.

### **Interference Information: Part 15 of FCC Rules**

Some telephone equipment generates, uses, and can radiate radio-frequency energy and, if not installed and used properly, may cause interference to radio and television reception.

Your product has been tested and found to meet the standards for a Class B digital device, as specified in Part 15 of the FCC Rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

If your product causes interference to radio or television reception when it is in use, you might correct the interference with any one or all of these measures: (a) where it can be done safely, reorient the receiving television or radio antenna. (b) To the extent possible, relocate the television, radio or other receiver with respect to the telephone equipment. (c)

If your telephone product runs on AC power, plug your product into an AC outlet that is not on the same circuit as the one used by your radio or television.