

Strata[®] ***CTX***

Digital Business Telephone Systems

DKT/IPT Telephone User Guide

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Introduction

This user guide describes how to use the Toshiba Strata series telephone products with Strata CTX28, CTX 100-S, CTX100, and CTX670 telephone systems:

- Strata IP telephone (IPT2010-SD and IPT2020-SD)
- Strata DKT3000-series digital telephones
- Strata Digital Add-on Module (DADM)
- Strata IP Add-on Module (IADM2020)
- Strata Direct Station Selection (DSS) console

Organization

- **Chapter 1 – The Grand Tour** provides an overview of the IP and digital telephones.
- **Chapter 2 – The Basics** covers the basic telephone features that you need to know.
- **Chapter 3 – Advanced Operation** includes an explanation of Soft Key operations. Features are presented alphabetically and, when applicable, include LCD information.
- **Chapter 5 – User Programming** explains how to program Flexible Button features, set One Touch buttons, change Personal Speed Dial numbers, as well as other user programmable functions.
- **Chapter 6 – DADM/DSS Console** explains how to use these consoles with the digital telephone.
- **Appendix A – Centrex Application** describes the Centrex features which may be available with your Strata CTX system.

- **Appendix B – Button Labels** lists the feature button designations of the 3000-series digital telephone models.
- **Appendix C - DKT3000-series Telephone Settings** explains how to enter data for this telephone if it wasn't previously entered or if you need to change the settings.
- **Appendix D - IP Telephone Settings** explains how to enter data for this telephone if it wasn't previously entered or if you need to change the settings.
- **Appendix E - Administrator Functions** contains some of the functions that can be performed using Administrator Mode..

How to Use This Guide

This guide provides in-depth instructions for the IPT1020-SD, IPT2000-series, DKT3000- and DKT2000-series telephones and their features. Most telephone users can use the “*Strata CTX DKT/IPT Quick Reference Guide*” instead of this guide.

Conventions

Conventions	Description
Note	Elaborates specific items or references other information. Within some tables, general notes apply to the entire table and numbered notes apply to specific items.
Important!	<i>Calls attention to important instructions or information.</i>
Extension Number	Press to answer a call to the Extension Number. Each station can have multiple extension buttons. Incoming calls ring the extension button(s) from the top down. For example, station 10's extensions ring 10-1 first, then 10-2, 10-3, and 10-4. A station is considered busy when all extensions are being used. Note The naming convention for DKT assignments within Toshiba is Directory Numbers. For clarity and ease of understanding, the terms Extension Number and Phantom Extension Number will be used in this document in lieu of PDN and PhDN.

Conventions	Description
Arial Bold	Represents telephone buttons.
+	shows a multiple PC keyboard or telephone button entry. Entries without spaces between them show a simultaneous entry. Example: Delete+Enter . Entries with spaces between them show a sequential entry. Example: # + 5 .
Tilde (~)	Means “through.” Example: 350~640 Hz frequency range.
See Figure 10	Grey words within the printed text denote cross-references. In the electronic version of this document (Library CD-ROM or FYI Internet download), cross-references appear in blue hypertext.

Related Documents/Media

Note Some documents listed here may appear in different versions on the CD-ROM or in print. To find the most current version, check the version/date in the Publication Information on the back of the document’s title page.

Refer to the following for more information:

- Strata CTX DKT3001/2001 Digital Single Line Telephone User Guide
- Strata CTX DKT/IPT Telephone Quick Reference Guide
- Strata CTX WinAdmin Application Software and CTX/DK/Partner Products Documentation Library CD-ROM

Introduction

Related Documents/Media

This chapter familiarizes you with the Digital Key Telephones (DKT) and Internet Protocol Telephones (IPTs) – the IPT2000-series, DKT3000- and DKT 2000-series telephones for the Strata CTX (model numbers appear on the bottom of your telephone).

Important! *The IP telephones do not work with the CTX28. The DKT3007-SD is specifically designed to work with the CTX28.*

IPT2000-series Telephones

The IPT2000-series models include:

- IPT2010-SD 10-button with two-line by 24-character LCD with full-duplex speakerphone.
- IPT2020-SD 20-button with two-line by 24-character LCD with full-duplex speakerphone.

Note The IP Telephony product family also includes a matching Add-on module IADM2020. This Add-on module functions like the DADM. For user instructions, refer to [“ADM” on page 88](#).

The 2000-series IP telephones offer all the same features as the 3000-series digital telephones, except Speaker Off-hook Call Announce (OCA). All the Toshiba IPT2000-series telephones enable you to place and receive calls without lifting the handset.

The Grand Tour

IPT2000-series Telephones

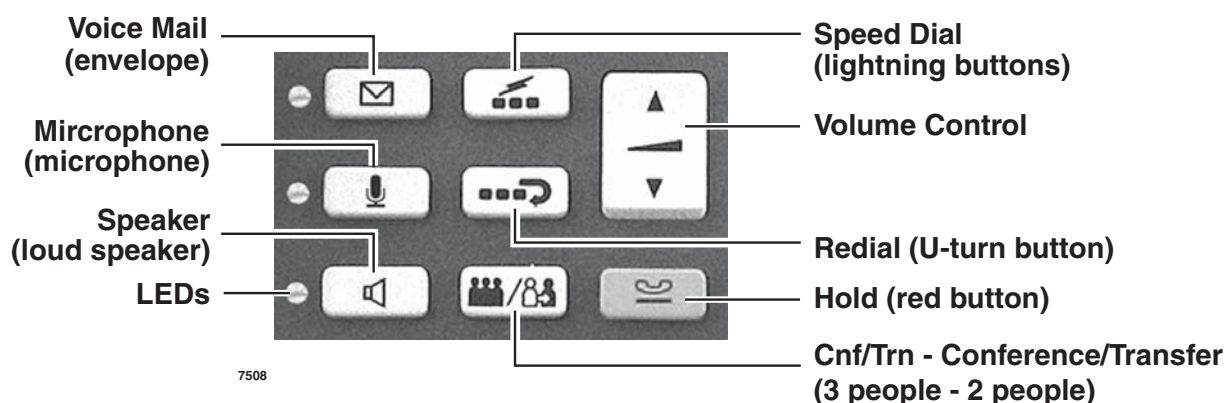
For all IP Telephone user instructions, refer to IPT2020-SD instructions. Toshiba LCD telephones provide easy access to frequently-used features. Prompts guide you through specific tasks. They also provide Outside Line Identification, User Name/Number, Call Duration, Date/Time of Day displays, and the ability to display names and telephone numbers of outside, incoming callers.



IPT2020-SD Telephone

Fixed Buttons

The fixed buttons on your dial pad enable you to perform standard functions quickly and easily. These buttons are described in [Chapter 2 – The Basics](#).



Note The IPT Fixed Buttons work the same way as the DKT telephones, however on the IPTs, fixed buttons have been replaced with button icons.

Flexible Buttons

Your IPT can have 10 or 20 flexible buttons (shown in the illustration on the previous page) and the DKTs can have either 10, 14, or 20 flexible buttons that can be programmed to do many button functions, including:

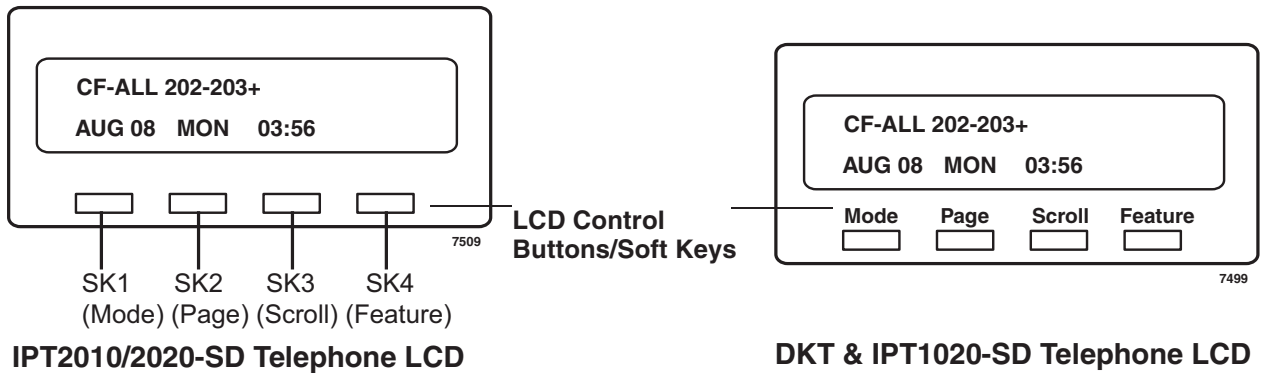
- **Line** is used to access an outside line.
- **Primary Extension** is your extension button.
- **Pooled Line Group** enables you to access available outside lines from a group of lines appearing under one button.
- **Feature Access Buttons** enables you to store features onto a single button.
- **One Touch Buttons** are used for storing Speed Dial numbers or feature access code sequences onto a single button.
- **Voice Mail Call Monitor** lets you listen to a caller while the caller records a message in your voice mailbox.

Note See [Table 15 on page 95](#) for a complete list of Feature Access Buttons and One Touch Buttons.

Liquid Crystal Display

Your Liquid Crystal Display (LCD) (shown below) shows:

- Desk Clock and Calendar in idle mode
- Call Duration during an outside call
- Operational, Advisory, and Notification messages



Note The IPT and DKT soft keys perform the same functions. This manual uses the IPT soft keys (SK) to refer to the soft keys on all telephones. For example, if an instruction references **SK1**, this means use the first soft key (from left to right) on the IPT and use Mode on the DKT. **SK2**, **SK3** and **SK4** equate to the second, third and fourth soft keys on the IPT or Page, Scroll and Feature on the DKT.

LCD Control Buttons/Soft Keys

There are two types of LCD button functions: LCD Control Buttons and Soft Keys. **SK1**, **SK2**, **SK3** and **SK4** represent the LCD soft keys in this manual.

When the Soft Key prompts appear on the LCD, the LCD Control Button just below the prompt offers access to that feature. See [“Using Your LCD” on page 25](#) for more information.

- **SK1** is generally used as a Soft Key.
- Pressing **SK2** switches you from the Call Forward (CF) display to the User Name display.
- Pressing **SK3** advances you through information.
- **SK4** will be used in the future.

DKT3000-series Telephones

The DKT3000-series models that can be connected to a Strata CTX include:

- DKT3007-SD 7-button (shown on next page)
- DKT3010-S 10-button
- DKT3020-S 20-button
- DKT3010-SD 10-button with two-line by 24-character LCD
- DKT3020-SD 20-button with two-line by 24-character LCD (shown on the next page)
- DKT3014-SDL ([page 71](#)) 14-button with eight-line by 24-character tilting LCD and 16 Soft Key buttons.

All of the DKT3000-series Toshiba speakerphones enable you to place and receive calls without lifting the handset.

Toshiba LCD telephones provide easy access to frequently-used features. Prompts guide you through specific tasks. They also provide Outside Line Identification, User Name/Number, Call Duration, Date/Time of Day displays, and the ability to display names and telephone numbers of outside, incoming callers.

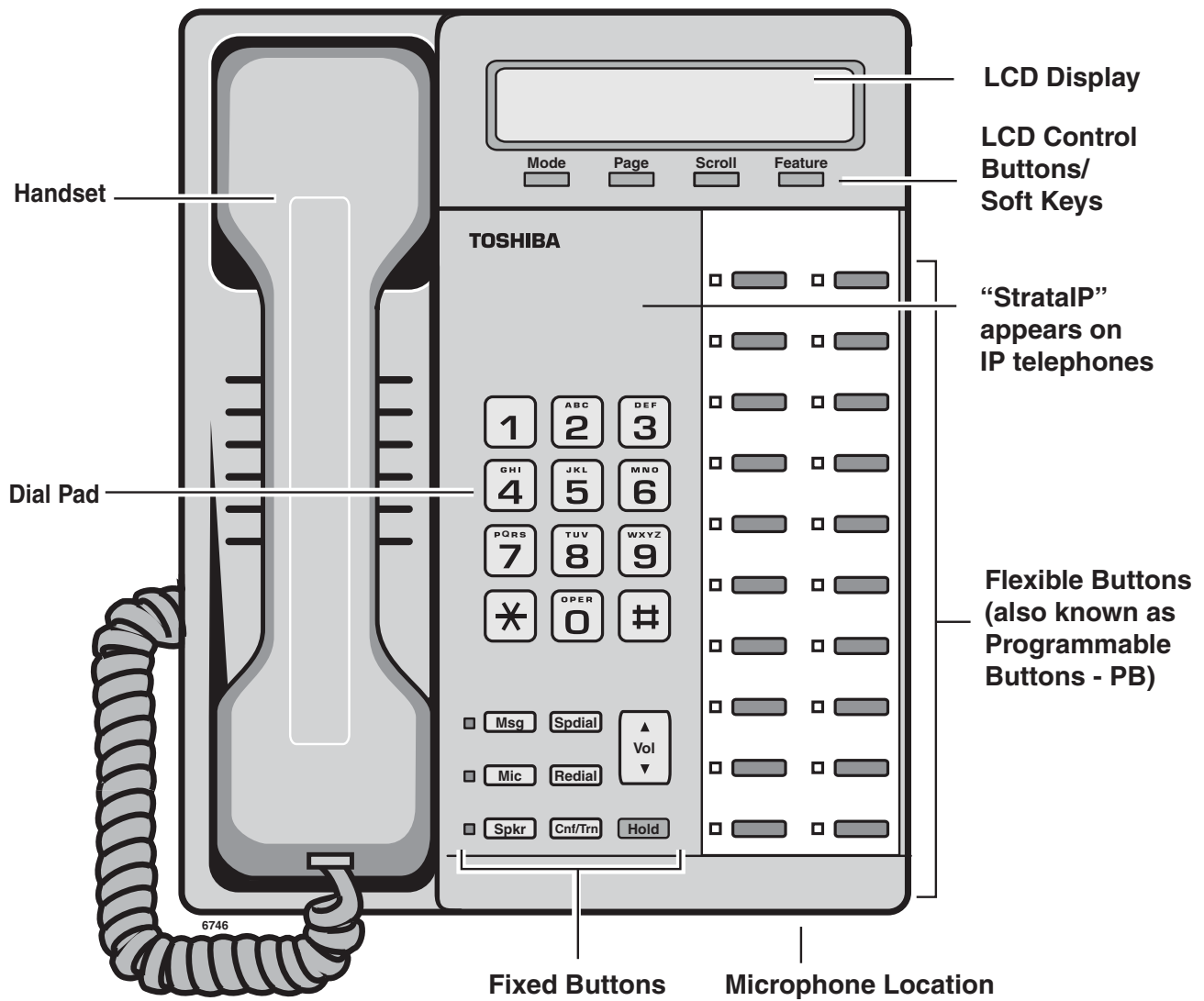
An illustration of the DKT3020-SD is shown on [page 7](#).

The Grand Tour

DKT3000-series Telephones



DKT3007-SD Telephone



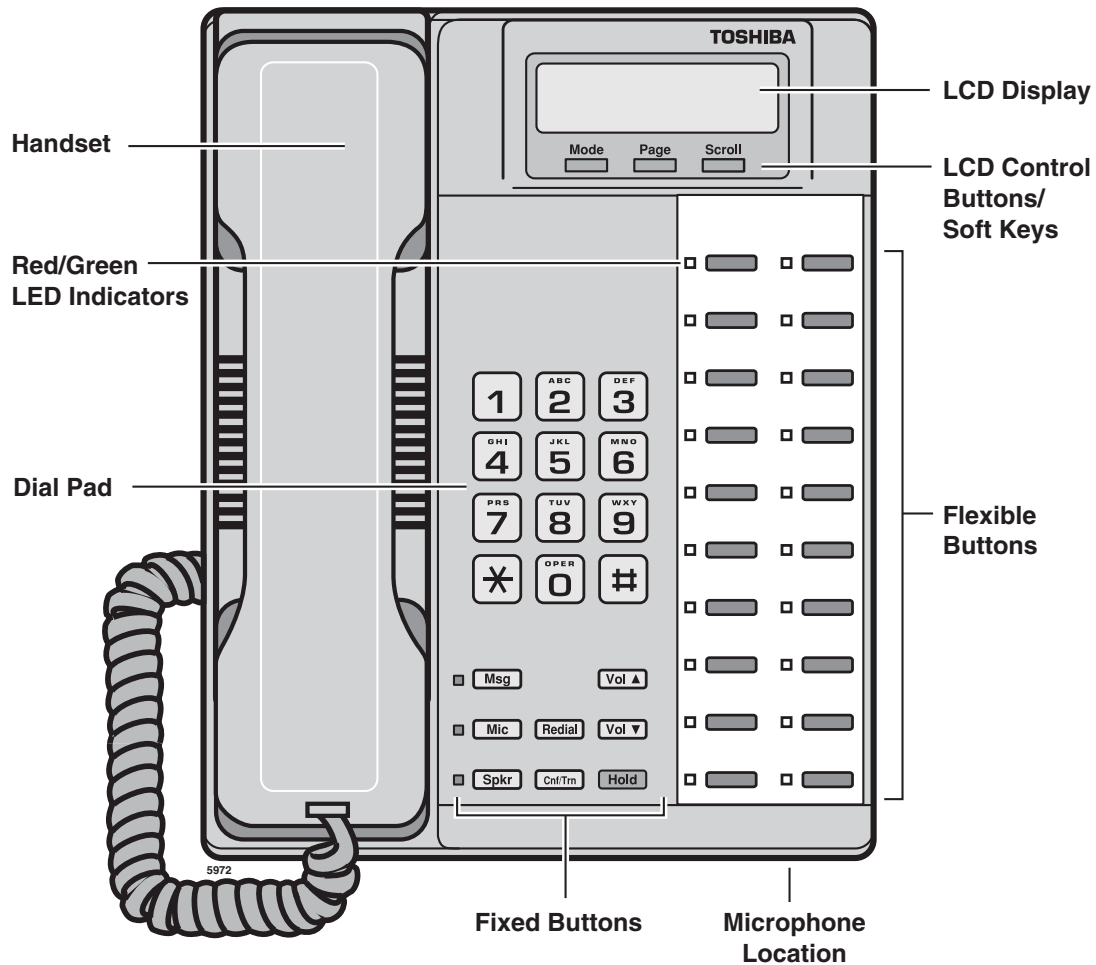
DKT3020-SD Telephone

DKT2000-series Telephones

The following speakerphone models belong to the 2000-series:

- DKT2010-S 10-button speakerphone
- DKT2010-SD 10-button with LCD
- DKT2020-S 20-button
- DKT2020-SD 20-button with LCD (shown below)
- DKT2020-FDSP 20-button with LCD and External Microphone jack
- DKT2001 (See the *Strata CTX DKT3001/2001 Digital Single Line Telephone User Guide*).

An illustration of the DKT2020-SD is shown on the next page.



DKT2020-SD Telephone

Fixed Buttons

The fixed buttons on your telephone enable you to perform standard functions quickly and easily. These buttons are described in [Chapter 2 – The Basics](#).

Flexible Buttons

All Flexible Buttons must be programmed for your telephone in system programming and vary for individual telephones. If a button does not appear on your display or telephone keypad label, see your CTX System Administrator for button assignments.

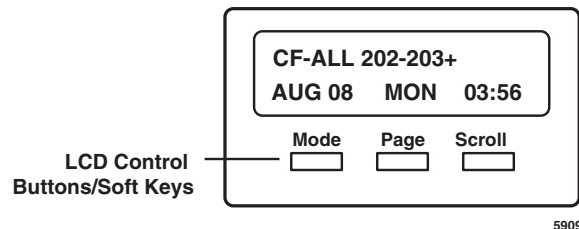
Line Buttons

You may have buttons designated as **Line** and/or **Pooled Line Grp** which enable you to directly access outside lines. **Pooled Line Grp** enables you to access available CO Lines from a group of lines appearing under one button.

Liquid Crystal Display

Your Liquid Crystal Display (LCD) (shown right) shows:

- Desk Clock and Calendar in idle mode
- Call Duration during an outside call
- Operational, Advisory, and Notification messages



Important! *The LCD width of the DKT2000-series telephones is shorter than the IPTs and DKT3000-series LCDs. This difference causes some features to display differently.*

LCD Control Buttons

There are two types of LCD button functions: LCD Control Buttons and Soft Keys. The DKT2000-series LCD Control Buttons consist of **Mode**, **Page** and **Scroll**. In this book these buttons are replaced with SK1, SK2 and SK3.

When the Soft Key prompts appear on the LCD, the LCD Control Button just below the prompt offers access to that feature. See [“Using Your LCD” on page 25](#) for more information.

- **SK1** is generally used as a Soft Key.
- Pressing **SK2** switches you from the Call Forward (CF) display to the User Name display.
- Pressing **SK3** advances you through information.

This chapter shows you the basic operation of your IPT1020-SD, IPT2000-series, DKT3000- and DKT2000-series telephones, unless otherwise noted.

Important! *The IP Telephones do not work with the Strata CTX28.*

Important - Read First

Be sure to check with your CTX System Administrator and make sure you know which features are enabled on your system. Use the check boxes ☐ throughout this book to mark which features you have.

Note LEDs on your telephone flash at different speeds depending on the function performed. Flash rates can be found under [“LED Indicator Details” on page 86](#).

What’s My Line?

Throughout this guide, the word “Line” is mentioned. For example, you will be instructed to “select a Line.” “Line” can be:

- ☐ Line button
- ☐ Pooled Line Group button
- ☐ Group Line button
- ☐ Line out requiring an access code - where you enter an outside line or line group access code (for example, dialing **9** to get an outside line).

Check mark which Line type you have, then use that selection when instructed to “select a Line.”

Which Outgoing/Incoming Call Features Do I Have?

Check mark here which outgoing/incoming features you have on your system.

- ☐ **Automatic Line Selection (ALS):** When making *outgoing* calls, you have ALS if when you lift the handset or press **Spkr** you hear dial tone and the Line Light Emitting Diode (LED) lights steady green. The LCD displays the station number and the seized outside line.
- ☐ **Ringing Line Preference:** You answer an *incoming* line ringing your station by lifting the handset or pressing **Spkr**. You do not have to press an extension button to answer.
- ☐ **Tone Signaling:** Internal *incoming* call – you hear successive ring tones, then lift the handset or press **Spkr** to answer the call.
- ☐ **Voice First Signaling:** Internal *incoming* call – your telephone does not ring; instead you hear a long tone, then the caller's voice. Talk in the direction of your telephone, or answer the call as you normally would by lifting the handset or pressing **Spkr**.
- ☐ **Switching Signaling:** Check with your CTX System Administrator to see if you have the ability to change between Tone and Voice Signaling on a call-by-call basis. If you do, you can press **1** after dialing an internal telephone number to change the signaling.
- ☐ **Hot Dialing:** If your telephone is programmed for "hot dialing," you do not have to press **Spkr** or lift the handset before dialing internal or external speakerphone calls. When you dial a number, the speakerphone automatically turns on and the Spkr and Mic LEDs light.

Making a Call

There are three ways to originate a call from your IP/digital telephone:

Hot Dialing

1. To make a call using Hot Dialing, dial the number.

When you start to dial, the extension button, Spkr and Mic LEDs light. Digits display as they are dialed. Call progress tones (Ringback Tone, Busy Tone, etc.) play through the speaker.

2. When connected, you can continue speakerphone operation or lift the handset and continue the conversation.

Spkr Button

1. To make a call, press **Spkr**.

A line may be automatically selected or you can manually choose a line. Your extension or **Line** button lights (depending on system programming). Dial tone plays through the speaker. The Speaker and Microphone LEDs light.

2. Dial the number.

Digits display as they are dialed. Call progress tones (Ringback Tone, Busy Tone, etc.) play through the speaker.

3. When connected, you can continue to use the speakerphone or lift the handset and continue the conversation.

Handset

1. To make a call, lift the handset, then dial the number.

A line may be automatically selected or you can manually choose a line. Dial tone plays through the handset. The Speaker and Microphone LEDs do *not* light.

Digits display as they are dialed. Call progress tones (Ringback Tone, Busy Tone, etc.) are heard through the handset.

2. When connected, you can continue to use the handset or switch to speakerphone by holding down **Spkr** and replacing the handset.

Answering a Call

There are several ways to answer a call:

Handset

- If your telephone is programmed for Ringing Line Preference, pick up the handset and the telephone automatically answers the ringing line.
- If not, press the button associated with the ringing line (flashing green LED).

Speaker

- If your telephone is programmed for Ringing Line Preference, press **Spkr** and the telephone automatically answers the ringing line.
- If not, press the button associated with the ringing line (flashing green LED). Once connected, you can continue on the speakerphone or lift the handset.

Handsfree Answerback

If you have a speakerphone, it may be programmed for Handsfree Answerback. You hear a single long tone, followed by the caller's voice. The extension LED flashes green (incoming call). The Microphone LED lights steady red (microphone is active). The Speaker LED flashes red.

1. Do not lift the handset; speak toward the telephone in a normal voice.
2. Press **Spkr** or take the handset off-hook before transferring the call or placing it on hold.

Switching Between Handset and Speakerphone

- Press **Spkr** and place the handset on-hook to switch from handset to speakerphone mode.
- Take the handset off-hook to switch from speakerphone to handset mode.

Message Waiting

Use your **Msg** LED/button and LCD to see/retrieve message(s).

An extension can receive up to four simultaneous Message Waiting indications and LCD messages. One message is reserved for the Message Center.

Your telephone can be programmed to have up to four additional (flexible) Message Waiting buttons/LEDs. Check with your CTX System Administrator to see if these buttons have been programmed on your telephone. If so, substitute them when the **Msg** button/LED is mentioned in the following steps.

Responding to a Lit Msg LED

1. On an LCD telephone, if you see a “+,” press **SK3** to display additional messages; otherwise, go to Step 2. The “+” indicates additional messages. The LCD can show up to three station messages for your extension and three for each additional (phantom) extension that you may have.
2. Press **Msg**, then lift the handset. Your telephone rings the extension or voice mail device that sent the indication. The LED continues to flash red.
3. After answering the message(s), place the handset back on-hook.
4. If the Msg LED continues to flash, you have more messages; repeat Steps 1~3 above to retrieve them. Voice mail devices turn off the LED/LCD indications after a short delay, after you checked all messages.
5. To manually turn off your Msg LED, press your extension button, then press **#409**. Do this step for each message received.

Turning On/Off MW LED on Another Extension

If you call an extension and it's busy or there is no answer, you may be able to light that extension's Message Waiting LED and enable that extension to call you back. The ability to perform this feature is set in system programming.

1. Dial an internal extension. You hear busy tone or there's no answer.
2. Press **Msg** or **7**. The Msg LED flashes red on the called telephone. At your telephone, the Msg LED lights steady red and the LCD shows the station number where you set a Message Waiting light. Example: "MW SET TO 3620."

If you decide to cancel the Message Waiting light at this point, press **Msg** or **7** again while ring-over tone is playing and the light will be cancelled.

3. Press **Spkr**. Your Msg LED turns Off. The Msg LED on the called telephone flashes until the called party presses the flashing **Msg** button which calls you back.
4. To turn Off a Message LED that you have set on another extension, press **#64** plus the extension number that has the message light set. Then press **Spkr** or hang up to release your telephone. Your LCD shows the extension and "MW CANCEL."

...or dial the extension that you set the Message LED on, then press **77**. Then press **Spkr** or hang up to release your telephone.

Microphone

- To turn the Microphone On/Off when the speakerphone is active (Spkr LED is On), press **Mic**.

When the Microphone is On, the Mic LED is On, steady red. When Mic is Off, the LED is Off and you cannot be heard through the microphone.

The microphone and its LED are always On when you receive a Voice-first internal call and Off when you receive a Ring-first call.

Each station's microphone can be set in system programming to:

- switch On/Off with one touch
 - switch Off only while pressed and held
 - either On/Off at the start of handsfree dialing.
- To talk back to a Handset Off-hook Call Announce call, press and hold **Mic** and talk over your telephone handset/headset. The LED and microphone remain Off.

Call Transfer

1. While on a call, press **Cnf/Trn**. Your Line LED flashes green and you hear internal dial tone.
2. Dial the extension where the call will be transferred. You can remain on the line and announce the call or immediately “blind transfer” the call.

Note If the privacy option has been disabled, then if you use a **Line** button when you transfer the call, the LED will flash red until the receiving party answers. While the LED is flashing, you can press **Line** button to return to the call. If the receiving party answers the call, the LED turns solid red and you cannot reconnect to the original caller.

During call transfer, you can connect all three parties by pressing your flashing extension button or **Cnf/Trn**.

- If you get voice mail, you can leave a message or hang up and let the transferred caller leave a message.
 - If you hear a long single tone, then announce the call over the called telephone’s speaker.
3. Transfer with Camp On: If the station to which you want to transfer the call is busy, you may hang up and the transferred trunk or station will be camped on to the busy destination.

➤ To transfer a call directly to Voice Mail (VM)

1. While on a call, press **Cnf/Trn**.
2. Enter **#407**.
3. Enter the VM mailbox number (usually the same as the extension number) + **#**.
4. Hang up and the caller is connected to the VM mailbox. This feature does a blind transfer to VM.

➤ To perform Call Transfer Immediate

1. While on a call, press the **TRNS** Soft Key. The IPT2008-SDL and DKT3014 LCD shows “TRANSFER.”
2. Dial the extension where you wish to transfer the call. The call rings the destination station and your telephone returns to the idle state. If your telephone does not go idle, the destination may be located in a remote node, so you need to hang up to return to idle state.

Conference Calls

You can conference together up to eight parties (including your own) - with up to six parties being external network lines. The actual number of conference parties with acceptable volume levels depends on the local and far end telephone line conditions.

The person who initiates the conference call is the Master. If, after the conference is established and the Master exits the conference, the first station to have been added to the conference becomes the Master.

➤ To conference calls

1. While on a call, press **Cnf/Trn**. You hear dial tone and your Line LED flashes green.
2. Call another station or outside line.
3. When the called party answers, press **Cnf/Trn**. If you receive a busy tone or no answer, press **Cnf/Trn** again to return to the original connection.

All parties are conferenced. If the second call was placed on a **Line** that appears on your telephone, the LED also flashes green.

4. Repeat the above steps to add lines to the conference. Keep in mind the maximum number of allowed conference parties.

Note When the “master” of the conference hangs up, the control is automatically transferred to the first internal station added to the conference call. If no other internal stations are included in the conference call, the call will be disconnected.

➤ To transfer conference control

1. Do Steps 1 and 2 above to add the line to which you wish to transfer conference control. See previous Note.
2. Announce the call and hang up to transfer it. This station now becomes the conference “master” with the ability to add or delete parties.

➤ To hold a conference call

- If you are the Conference Master, press the **Hold** button once (or twice for Executive Hold) to place the conference call on hold. The other parties can continue with the conference. Music-on-hold is suppressed and your extension LED flashes green. You can rejoin the conference at any time by pressing your extension button. When you return, you retain Master status.

Adding Voice Mail to a Conference

The Conference Master can add voice mail to a conference. This feature enables participants in a conference to listen to or leave a voice mail message during one telephone call.

► To add Voice Mail to a conference call (performed by Conference Master)

1. Press **Cnf/Trn** to place the current call on Consultation Hold.
2. Dial the voice mail (VM) extension number, then enter the VM mailbox and security code. This adds the voice mailbox to the conference.
3. Press **Cnf/Trn** to reconnect to the original party. (You can continue to add conference members by pressing **Cnf/Trn** and dialing another extension.)

Now, all parties in the conference can listen to or record a message to this voice mailbox. Only the Master can control the VM with touchtones or Soft Keys.

Connecting Two Outside Lines

1. While talking on an outside call, press **Cnf/Trn**. You hear dial tone. The extension LED flashes (conference rate).
2. Dial an outside line access code and outside telephone number.
3. After the party answers, press **Cnf/Trn**. The extension LED flashes (in-use rate) and all parties are conferenced.

If you receive a busy tone or if the station does not answer, press the flashing extension button to return to the original connection, press **Cnf/Trn**.

4. Hang up. The extension LED flashes (exclusive-hold rate) and the two lines are connected. The LED turns Off when the parties hang-up.
5. To supervise a tandem call, press the extension button. If the parties have finished, hang up...or if the parties are still talking, press **Cnf/Trn** and hang-up. Both Line LEDs turn Off and the connection is released.

If your telephone company provides auto disconnect, the connection may release automatically when the parties hang up. If not, the lines must be supervised to be disconnected.

Conference Split/Join/Drop

If you initiate a conference with two or more parties, you and another member of the conference can leave (Split) the conference for a private conversation. During this time, other conference members remain connected.

You can then Join both of you back into the conference, or you can Drop (disconnect) the member you are connected to. This feature is performed with Soft Keys if you have a LCD phone with a Split button created on one of your flexible buttons.

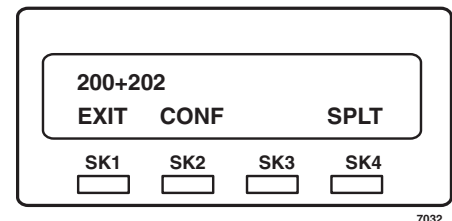
Important! *DKT2000-series telephones don't display the **SPLT** soft key, so you must create a **Split** key using the feature key assignment method. (See “[Setting/Changing a Flexible Button's Function](#)” on page 79.)*

The Split feature requires Strata CTX R2.2. This feature also works for remote stations which are connected through Strata Net QSIG.

Important! *You must be a conference master to perform the Split and Drop features. The conference master is the person that initiates the conference call. If that person drops from the conference, the first person added to the conference becomes the conference master.*

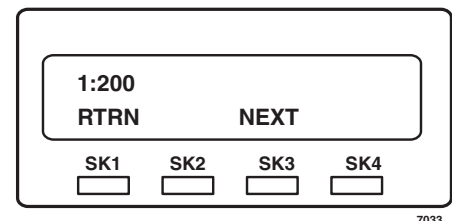
► To Split from a conference

1. While in a conference call on a DKT3000 phone, press the **SPLT** (Split) soft key or Split button.

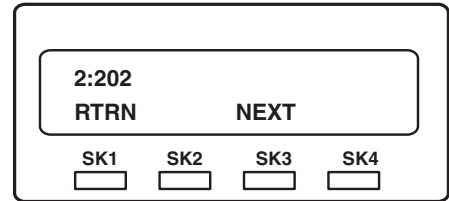


The telephone LCD shows first conference party member. Notice the number **1** preceding extension **200** (**1:200**) shown right

2. Press the **NEXT** soft key until you see the extension number for the party that you want to Split out of the conference.

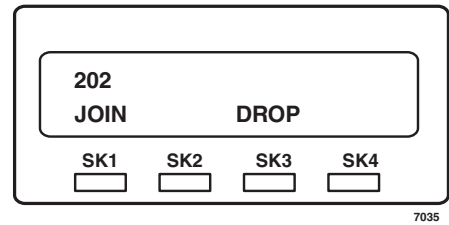


Example, if you want to Split with extension 202, press the **NEXT** soft key until you see **X:202** (X = any number). Then press **X** (in the example shown right **2:202**, press **2** on the dial pad to Split 202.)



3. You can return both yourself and the other Split party back into the conference by pressing **JOIN**.

RTRN terminates a feature operation and returns to the previously displayed state.



➤ To Drop the Split party from a conference

- Press the **DROP** Soft Key. The party that you are talking to privately (the party which you have Split from the conference) will be disconnected (Dropped) and you will rejoin the conference.

If you are in a three-way conference and Split with one of the parties, the remaining party will essentially be “on hold” until you return to the conference.

Hold

1. To place a call on hold, press **Hold**. Your LCD shows the line on hold. The held Line's LED flashes green while appearances of the line at other stations flash red.
 - To return to the held call, press the held **Line** button.
 - If you do not return to the held call within a specified time, it rings back to your telephone. The call remains camped-on to your station indefinitely.
 - If the held party hangs up, the call is released.
2. Repeat Step 1 to place additional lines on hold.

Note See the Call Pickup section to pick up a call on hold from another extension.

Exclusive Hold

This feature enables you to place a call on hold so that only you can retrieve it.

- While on a call, press **Hold** twice. That line's LED flashes green while appearances of the line at other stations are steady red (in use).

Automatic Hold

This feature enables you to place a call on hold by pressing another **Line** button – no need to press **Hold**. Make sure this feature is programmed on your system; if not, existing calls will drop.

- While on a call, press another extension button to receive/originate a new call. The accessed line's LED flashes (in-use). The first call is put on hold and your extension's LED flashes. You can also switch between calls without having to press **Hold**.

Consultation Hold

1. While on a call, press **Cnf/Trn**. The call goes on hold.
2. Dial another line.
3. Transfer the call or return to the held call by pressing its **Line** button.

Volume Control

➤ To adjust the handset volume

- Press the **Vol ▲** to increase volume and **Vol ▼** to decrease volume during the call. When you hang up, the volume returns to the default setting.

➤ To adjust the speaker volume for internal/external calls and background music

1. Press **Spkr**.
2. Press an extension button - you hear dial tone.
3. Press the **Vol ▲** to increase volume and **Vol ▼** to decrease volume. This volume setting applies to all calls until changed.

➤ To adjust Ring Tone, Handsfree Answerback and Speaker Off-hook Call Announce

- Make sure the telephone is idle and the handset is on-hook. Press the **Vol ▲** to increase volume and **Vol ▼** to decrease volume. This adjusts volume for your telephone's ring tone, Handsfree Answerback and Speaker Offhook Call Announce simultaneously.

➤ To adjust handset Beep Tone

1. With the handset off-hook, dial the Beep Tone Adjustment Code **#6101** (default code). You hear busy tone.
2. Press **Vol ▲** or **▼** to reach the desired level.

LCD Contrast Adjustments

- Press and hold down the **Mic** button, and press and release **Vol ▲** or **Vol ▼** repeatedly.

Each time you press **Vol ▲** or **Vol ▼**, the contrast increases or decreases. There are eight steps in either direction. To return to the middle setting, repeat the above step.

The Basics

LCD Contrast Adjustments

This chapter gives you more details about your IPT2000-series, DKT3000- and DKT2000-series telephone's advanced functions.

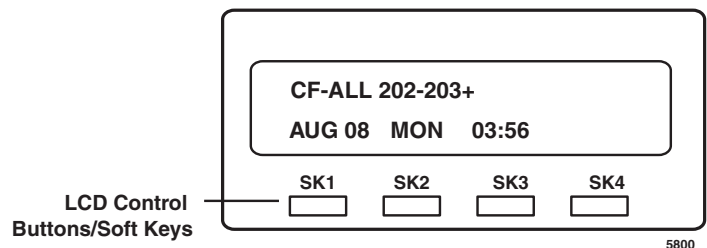
Using Your LCD

If your telephone has an LCD, use this section to learn more about its functions.

In its idle state, the LCD is a desk clock and calendar. When you are on an outside call, the call duration displays.

A “+” on the LCD readout (shown at right) indicates there is more data to display.

- Press **SK3** to advance through the information.
- Press **SK2** to switch from the Call Forward (CF) display to the User Name display.



Soft Keys

When Soft Keys are on, they replace the functions on the **SK1**, **SK2**, **SK3** and **SK4** buttons below the LCD. The following table defines Soft Key Prompts.

Table 1 Soft Key Prompts

Soft Key	Definition
ABR	Activates Automatic Busy Redial after dialing a busy outside telephone number.
ACB	Activates Automatic Callback after reaching a busy station, CO line, or CO Line group.
BUSY	(Busy Override) Sends a call-waiting tone to a busy station.
CONF	Initiates or completes a conference.
EXEC	(Executive Override) Breaks into the conversation of a busy called station.
EXIT	Exits you from a conference; remaining parties are connected.
JOIN	Joins all parties to a conference while on a conference call.
LINE	Adds a CO line to an existing call while in the Conference mode. The LCD prompts you to access a CO line after you press this key.
MESG	Sets a message waiting indication at a busy or unanswered station.
OVRD	Overrides options, busy mode, or overrides Do Not Disturb mode.
PGE	Enables you to enter a Page Group number (01~16).
RING	Makes a called station ring when making a voice announce call to the station.
RLS	Disconnects a call and returns telephone to the idle state.
RTRN	Terminates a feature operation and to return to a previously displayed state.
SPLT	Enables you to break off from a conference call with another conference call member for a private conversation (split). You can use the Join key to reconnect both of you back into the conference. You must be a conference master to use this. See instructions for Conference Split/Join/Drop for further instruction.
STA.	Adds a station to an existing call while in the Conference mode. The LCD prompts you to dial a station number after you press this key.
TALK	Makes a voice announcement to a called station that is ringing.
TRNS	Initiates or completes a Transfer while on an outside call. Press once for an immediate or announced transfer, depending on system programming. Pressing TRNS again completes the transfer.

Soft Key Example

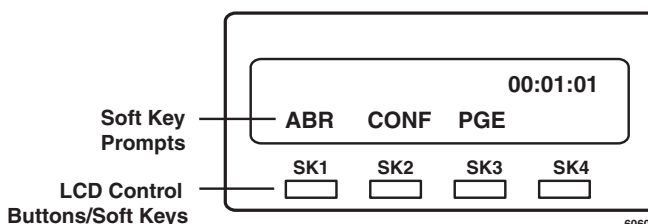
When the Soft Key prompts appear on the LCD, the LCD Control Button just below the prompt offers access to that feature. Here's an example of how Soft Keys work.

1. When an outside call is in progress, the LCD appears as shown on the right.

ABR = Automatic Busy Redial

CONF = Conference

PAGE = Paging

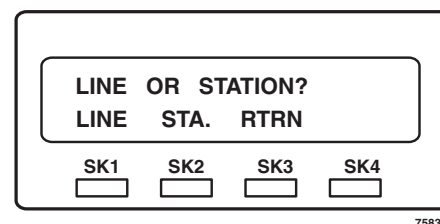


2. If you select **CONF** (press **SK2**), the display changes as shown right.

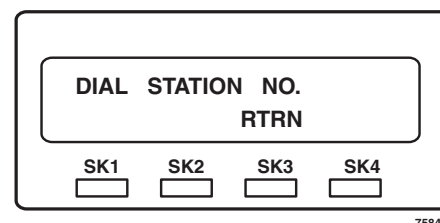
LINE = Add an outside line to the conference

STA = Add another station

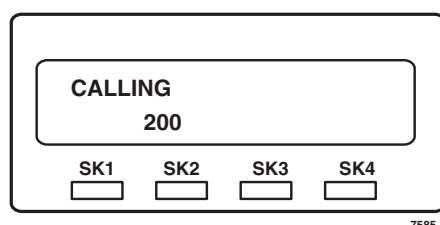
RTRN = Return to the original caller without making a conference



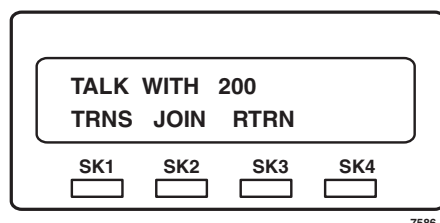
3. You will be prompted to dial the desired station. The **RTRN** Soft Key (press **SK3**) enables you to return to the original caller without making a conference.



Until the call is answered, you see the screen shown right.



When the call is answered, you see the screen shown right. **TRNS** = exit the call and transfer the first party to the second. **JOIN** = create a conference with you and both other parties. **RTRN** = drop the second party and return to a two-way conversation with the original party.



Advisory Messages

Advisory messaging enables you to store an informative message for LCD telephones that call your telephone. The messages can be up to 16 characters long. The Strata CTX provides a number of stored messages, shown in the table below. Message numbers 5~9 can be defined by your CTX System Administrator.

Msg No.	Characters Displayed	Additional Digits
0	OUT TO LUNCH	
1	IN A MEETING	
2	CALL _____	Directory Number 76345
3	BACK AT _____	Time (e.g., 1030)
4	RETURN ON _____	Date (e.g., 10 20)
5		
6		
7		
8		
9		

► To set an advisory message

1. Go off-hook or press your extension button or phantom directory number button to hear dial tone.

Note A phantom directory number button is similar to an extension button that is shared on other telephones.

2. Press **#411** + Message No. (see table) + any additional digits (such as time, etc.)
3. Go on-hook or press **Spkr** to release the line.

► To clear the registered message

1. Go off-hook or press your extension button or phantom directory number button to hear dial tone.
2. Press **#412**.
3. Go on-hook or press **Spkr** to release the line.

Account Code Calls

Account Codes (Forced or Voluntary) can be used for a variety of reasons including billing, tracking, and line restriction applications. Account Codes are assigned in the system as a fixed length (default is six digits) and are recorded by the system, along with the details of the calls, which can be printed on a Station Message Detail Recording (SMDR) report.

Verified/Non-Verified Account Codes

If programmed for Verified Account Codes, the system checks the account code you entered against a list created by the CTX System Administrator. The code you enter must be on the list for the call to proceed. Non-verified account codes must be of a uniform length specified by the CTX System Administrator.

Forced Account Codes

Some applications require you to enter an Account Code. These Forced Account Codes may be verified or non-verified, depending upon the application, but in either case, the caller must enter a code before proceeding.

► To dial using Forced Account Codes

1. Place a call in the normal method.

If the call requires an Account Code, a burst of tone (Success Tone) is heard after dialing the telephone number alerting you to enter the Account Code.

2. Enter the account number.

When the number of digits designated for account codes has been entered, the number will be checked against the verified list, if chosen, and the call will continue as normal. If the number of digits entered for the account code is not reached or the verified code does not match, then re-order tone is heard and the call is rejected.

You can bypass Forced Account Code requirements with three emergency numbers, including 911. See your CTX System Administrator for these numbers:

- 1) 911 2) _____ 3) _____

Voluntary Account Codes (Verified/Non-Verified)

Voluntary Account Codes are optional. They can be entered during a call and are used for tracking selected calls using Station Message Detail Report (SMDR) call detail recording option.

If the system is set for Verified Account Codes, station users must enter a specific code when entering the Voluntary Account Code(s) or the code is not validated for the SMDR call report. This does not affect the call.

There are two ways to dial using a Voluntary Account Code:

➤ To dial using the Account Code button

1. After accessing a CO line, press the **Account Code** button. LCD telephones prompt you to “ENTER ACCOUNT CODE NOW.”
2. Enter the account code digits. The LCD prompt disappears upon entry of the first account code digit. After the account code is entered, the time indicator is restored in the LCD.
3. If your station is set for Verified Account Codes, you hear confirmation tone when the code is valid. If the code is invalid, you hear two short tones.
4. Enter the Account Code. Your conversation is not interrupted.

➤ To enter an Account Code using access codes

Note It's a good idea to warn the other party that you will be disconnected momentarily when you enter the access code. Once the code is entered, you will be connected again.

1. After accessing a CO line, press **Cnf/Trn**. Once you press **Cnf/Trn**, your call is interrupted; you and the other party cannot hear each other. You will hear feature dial tone.
2. Dial **#46**. LCD telephones prompt you to “ENTER ACCOUNT CODE NOW.”
3. Enter the account code digits. The prompt disappears upon entry of the first account code digit. After the account code is entered, the connection is restored and the LCD shows the time.

Automatic Busy Redial

After reaching a busy outside number, you can activate Automatic Busy Redial so that the system automatically redials the number at regular intervals. The system repeats the redial until the destination is no longer busy. This feature may not be on some telephones on your system.

Automatic Busy Redial is not attempted while your station is busy, but continues to time-out. The system inserts a pause (P) on your LCD before redialing the number.

► To activate Automatic Busy Redial

1. When you reach a busy number, press **Auto Busy Redial** or **Cnf/Trn + #441**. The LED flashes red. You hear confirmation tone.
2. Hang up or press **Spkr**. The system redials, up to five to 20 times, every 30 to 180 seconds (depending on system programming). Your telephone receives ring tone when Automatic Busy Redial dials the number and it is available. The extension and Spkr LEDs flash green.
3. Lift the handset or press **Spkr** and wait for the party to answer. If you do not pick up the handset or press **Spkr** within recall timeout (five to 60 seconds) after a connection is made, you hear a muted ring for another 30 seconds, then the call disconnects.

► To cancel Automatic Busy Redial

- Press **Auto Busy Redial** or extension + **#442**.

Automatic Callback

When you reach a busy station, you can set Automatic Callback to have the system monitor the busy extension and notify you when it becomes idle.

Automatic Callback can also place you in queue for an available outside line, if you reach a line group in which all lines are busy. When a station or line becomes available, the system rings your telephone. Then when you answer, it automatically rings the intended destination. The amount of time the system will wait for an idle destination is set in system programming. Automatic Callback is also known as “CO Line Queuing.”

► To set Automatic Callback

1. If you hear busy tone after dialing an outside line access code or a station number, press **Auto Callback** or **4**. Busy tone stops, followed by success tone, then busy tone resumes.
2. Hang up. You can make other calls while waiting.
3. When the called station or outside line becomes idle, your telephone rings with a fast LED.
 - If you called a busy station, the extension LED flashes green (incoming call) and the called number displays.
 - If you called a busy outside line, the extension LED flashes green (incoming call rate). The seized line's number displays.
4. Answer within about three rings (five to 180 seconds, set in programming) to prevent the callback from being cancelled. After you answer, you hear success tone, and the LED flashes green (in-use).

If you hear a busy tone after answering a callback, the called party is already on another call or the line has already been seized or has received an incoming call. Your request is not cancelled. You will be called again the next time a line becomes idle.

If you were attempting to make an outside call, the telephone number is automatically dialed, including the account code or override codes that were used.

► To cancel ACB

- Press **Auto Callback** or extension button + **#431**.

Background Music

You can set background music over your telephone speaker or over external speakers. Up to 16 different music sources can be applied to the Strata CTX system: the first source is Quiet Tone, all others can be music or recorded information.

➤ **To enable background music on your telephone speaker**

➤ Press **BGM**. LED turns on.

...or press an extension button + **#490** + n + **#**, where n is the music source 1~15.

➤ **To cancel background music on your telephone speaker**

➤ Press **BGM**. LED turns off.

➤ ...or press an extension button + **#491**.

➤ **To change the BGM source (1~15) assigned to the BGM button**

Press an extension button + **#9876** + **BGM** + n + **BGM**, where n is the music source 1~15.

➤ **To enable background music over your external paging speakers**

Press an extension button + **#492** + n + **#**, where n is the music source 1~15.

➤ **To cancel background music over your external paging speakers**

Press an extension button + **#493** + **Spkr**.

Call Forward

There are two types of Call Forwarding that you can set. One is System Call Forward (set in system Programming) which automatically directs calls to a predefined location, such as Voice Mail. See your CTX System Administrator to determine or change your System Call Forward destination.

The other type is Station Call Forwarding. You can use Station Call Forwarding (CF) to replace your System CF destination with a custom CF setting made from your station.

System

System Call Forward directs calls to a destination preset by an Administrator for each telephone, commonly set to voice mail.

- To turn on System Call Forward for your telephone, press **#620**. Confirmation tone (three short tones) and “DATA PROGRAMMED” indicate the data is set.
- To turn off System Call Forward for your telephone, press **#621**. Confirmation tone (three short tones) and “DATA PROGRAMMED” indicate the data is set.

Station

Station Call Forward enables you to assign Call Forward destinations for each extension on your telephone that will override the telephone’s System CF settings. Each extension can be independently set Station Call Forward to a unique destination. You can set a Flexible Button to perform any Call Forward function - see [“Programming Feature Buttons” on page 77](#) for more details. Call Forward must be set prior to receiving the call.

The following calls to your station can be forwarded:

- Internal calls
- Auto Attendant calls
- Outside lines that ring only your station
- Transferred internal or incoming line calls

Station Call Forward Categories

You can set Call Forward for the following categories of calls. Within these categories, you can use five different types of Call Forward Settings.

- **Call Forward Any Call** – Forwards any call, whether an internal call or incoming line call.
- **Call Forward - Incoming Line** – Forward incoming line calls only.
- **Call Forward Any Call - Set for Another Station** – Enables you set forwarding of all calls for another telephone within your telephone system.
- **Call Forward - Incoming Line Set for Another Station**– Enables you to set forwarding of incoming line calls for another telephone within your telephone system.

Notes

- Call Forward Any Call and CF-Incoming line can be set simultaneously on a telephone. This allows incoming lines calls to be forwarded to a different destination than all of the other types of calls.
- Call Forward destinations can be to internal destinations and outside telephone numbers.
- You can change your forwarding destination from outside the system using the DISA feature. See your CTX System Administrator for DISA telephone numbers and security code access.

Call Forward Settings

- **Call Forward All Calls** – Forwards all calls immediately.
- **Call Forward Busy/Do Not Disturb** – Forwards calls immediately when your extension is busy or in Do Not Disturb (DND) mode.

In Tone-first systems with multiple lines, Call Forward Busy forwards calls only when all line appearances are in use. In Voice-first systems, Call Forward Busy forwards all calls any time your telephone is in use.

- **Call Forward - No Answer** – Forwards all calls to your station whenever you do not answer the call within a designated time (set by you when you enable the feature).

- **Call Forward Busy/Do Not Disturb/No Answer** – Forwards all calls to your station whenever you are busy, in the DND mode, or after ringing and you do not answer the call within a designated time (set by you when you enable the feature).
- **Call Forward Cancel** – Cancels the set Call Forward feature. Notice that each category of Call Forward has a different code for canceling.

Station Call Forward Procedures

Table 2, “[Call Forward Procedure](#)” contains Call Forward Button sequences. You can do a Call Forward function by, one, entering the button sequence as described, or two, by programming a Flexible Button to perform the sequence. See “[Programming Feature Buttons](#)” on page 77 for instructions on programming a Flexible Button.

➤ To use the Call Forward button sequence

- Follow the instructions in the following table, shown under “Button Sequence.” Some features require additional input, such as:

- **Dest. Ext. or Telephone No.** – CF destination numbers can be internal extension numbers or outside telephone numbers. If the destination is an outside number, enter the access code used for dialing out (such as **9**) + the telephone number + **#**. The CTX accepts destination numbers of up to 32 digits. (See following examples).
- **Timer** – Enter the number of seconds (08~60) your telephone should ring before forwarding the call. (This is the CF-No Answer timer.)
- **CF Pass Code** – A four-digit Call Forward (CF) pass code established by system programming is required to allow one station to set CF for another station. This code is also used to allow DISA callers to set CF for another station. Users must enter the CF pass code for the station to be forwarded.

Note In [Table 2](#), (tone) means that confirmation tone (three short tones) will play at that point in the sequence to confirm your input was accepted.

Call Forward Examples

➤ To set your telephone to CF Busy-No Answer to an internal extension number

➤ Press your extension button + **#6041** + **3000** + **10**

#6041 = Call Forward Access Code sequence

3000 = Internal Extension Number

10 = Ring time in seconds before Call Forwards

➤ To set another telephone to CF Busy-No Answer to an outside destination number after a set time

➤ Press your extension button + **#6042** + **1234** + **1111** + **#** + **9** + **1 949 5873000** + **#** + **08**

#6042 = CF Busy No Answer Access Code sequence

1234 = Other telephone's extension number

1111 = CF Passcode for other telephone + **#**

9 = Outside Line Access Code

1 949 5873000 = 1 + Area Code + Telephone Number

= Must press after entering an outside destination number

08 = Ring time in seconds before Call Forwards

Table 2 Call Forward Procedure

Feature	Button Sequence
Call Forward Any Call - Internal and Incoming Line Calls: Forwards any call, whether an internal call or incoming line call.	
All Calls to an ext.	Press ext. button + #6011 (tone) + dial the dest. ext. no. (tone)
All Calls to outside telephone no.	Press ext. button + #6011 (tone) + outside line access code + dest. telephone no. + # (tone)
Busy to an ext.	Press ext. button + #6021 (tone) + dial the dest. ext. no. (tone)
Busy to outside telephone no.	Press ext. button + #6021 (tone) + outside line access code + dest. telephone no. + # (tone)
No Answer to an ext.	Press ext. button + #6031 (tone) + dial the dest. ext. no. + timer (08~60) (tone)
No Answer to outside telephone no.	Press ext. button + #6031 (tone) + outside line access code + dest. telephone no. + # (tone) + timer (08~60) (tone)

Advanced Operation

Call Forward

Table 2 Call Forward Procedure (continued)

Feature	Button Sequence
Busy No Answer to an ext.	Press ext. button + #6041 + dial the dest. ext. no. (tone) + timer (08~60) (tone)
Busy No Answer to outside telephone no.	Press ext. button + #6041 + outside line access code + dest. telephone no. + # + timer (08~60) (tone)
Cancel	Press ext. button + #6051 (tone)
Call Forward - Incoming Line Calls: Forward incoming line calls only.	
All Calls to an ext.	Press ext. button + #6013 (tone) + dial the dest. ext. no. (tone)
All Calls to outside telephone no.	Press ext. button + #6013 (tone) + outside line access code + dest. telephone no. + # (tone)
Busy to an ext.	Press ext. button + #6023 (tone) + dial the dest. ext. no. (tone)
Busy to outside telephone no.	Press ext. button + #6023 (tone) + outside line access code + dest. telephone no. + # (tone)
No Answer to an ext.	Press ext. button + #6033 + dial the dest. ext. no. (tone) + timer (08~60)
No Answer to outside telephone no.	Press ext. button + #6033 + outside line access code + dest. telephone no. + # (tone) + timer (08~60)
Busy No Answer to an ext.	Press ext. button + #6043 + dial the dest. ext. no. (tone) + timer (08~60) (tone)
Busy No Answer to outside telephone no.	Press ext. button + #6043 + outside line access code + dest. telephone no. + # (tone) + timer (08~60) (tone)
Cancel	Press ext. button + #6053 (tone)
Call Forward Any Call - Set for Another Station: Enables you to set call forwarding for another telephone within your telephone system. You will need the other telephone's CF pass code in order to do this. CF Pass Codes are created in system programming.	
All Calls to an ext.	Press ext. button + #6012 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # + dest. telephone no. (tone)
All Calls to outside telephone no.	Press ext. button + #6012 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # + outside line access code + dest. telephone no. + # (tone)
Busy to an ext.	Press ext. button + #6022 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # + dest. telephone no. (tone)

Table 2 Call Forward Procedure (continued)

Feature	Button Sequence
Busy to outside telephone no.	Press ext. button + #6022 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # + outside line access code + dest. telephone no. + # (tone)
No Answer to an ext.	Press ext. button + #6032 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code (tone) + # + dest. telephone no. (tone) + timer (08~60) (tone)
No Answer to outside telephone no.	Press ext. button + #6032 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code (tone) + # + outside line access code + dest. telephone no. + # (tone) + timer (08~60) (tone)
Busy No Answer to an ext.	Press ext. button + #6042 + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone) + dest. telephone no. (tone) + timer (08~60) (tone)
Busy No Answer to outside telephone no.	Press ext. button + #6042 + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone) + outside line access code + dest. telephone no. + # (tone) + timer (08~60) (tone)
Cancel	Press ext. button + #6052 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone)

Advanced Operation

Call Forward

Table 2 **Call Forward Procedure** *(continued)*

Feature	Button Sequence
Call Forward - Incoming Line Call - Set for Another Station: Enables you to set forwarding of incoming line calls for another telephone within your telephone system	
All Calls to an ext.	Press ext. button + #6014 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone) + dest. telephone no. (tone)
All Calls to outside telephone no.	Press ext. button + #6014 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone) + outside line access code + dest. telephone no. + # (tone)
Busy to an ext.	Press ext. button + #6024 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone) + dest. telephone no. (tone)
Busy to outside telephone no.	Press ext. button + #6024 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone) + outside line access code + dest. telephone no. + # (tone)
No Answer to an ext.	Press ext. button + #6034 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone) + dest. telephone no. (tone) + timer (08~60)
No Answer to outside telephone no.	Press ext. button + #6034 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone) + outside line access code + dest. telephone no. + # (tone) + timer (08~60) (tone)
Busy No Answer to an ext.	Press ext. button + #6044 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone) + dest. telephone no. (tone) + timer (08~60) (tone)
Busy No Answer to outside telephone no.	Press ext. button + #6044 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone) + outside line access code + dest. telephone no. + # (tone) + timer (08~60) (tone)
Cancel	Press ext. button + #6054 (tone) + dial the other telephone's ext. no. + enter other telephone's CF pass code + # (tone)
Change Call Forward Pass Code: Your telephone must be enabled in programming to have the ability to change pass codes.	
Change Pass Code	Press ext. button + #670 (tone) + dial the dest. ext. no. (tone) + old pass code + # (tone) + new pass code (tone) + #

Call History

Incoming calls with Caller ID or ANI information can be optionally recorded into a rolling list for the station where the call is ringing. The call is placed in the list along with the number, name (if provided), time and date of the call, and status of the call (answered, abandoned, or redirected). You can access this list from an LCD telephone with a flexible **Caller ID** button.

➤ To view Call History

- When your station is idle, press the **Caller ID** button. The Caller ID LED lights green and the latest record displays.
- Press **Vol ▲** for the next record; press **Vol ▼** for the previous record.
- To view the call date, time and status, press **SK2** (press again to toggle to call name/number).

Call Park Orbits

The Call Park feature enables you to hold a call temporarily in a location other than your telephone. These areas are called orbits. You or another telephone user can retrieve a parked call from its orbit by specifying the orbit number. You can specify one of 20 General Park Orbits (7000~7019) or a valid extension number within the system.

Once you have parked a call in an orbit, you can:

- Hang up and retrieve the parked call at a later time
- Originate another call
- Access a voice paging device to announce the parked call for pickup from another station

If you park a call and it is not retrieved, it will recall to the parking station and one of the following occurs:

- If your station is idle when the system Call Park recall timer expires, the parked call automatically recalls to your station.
- If your station is busy, the parked call camps on.

If you have an LCD telephone, you can let the system automatically select an available orbit number which displays on your LCD.

► To park a call

1. While on a call, press **Park in Orbit**
...or **Cnf/Trn + #33**. The LED flashes green (consultation-hold). If you were on an extension during the call, and you have line button on your telephone, the line LED will flash until the call is picked up (depending on programming).
2. Specify the Park Orbit using one of the following:
 - Press ***** and the system automatically selects a General Park Orbit between **7000~7019**. The chosen orbit appears on the LCD.
 - Enter a valid extension.
 - Press **#** and the system automatically selects your extension as the orbit.
3. Hang up. The caller's extension or line number and the orbit number are shown. If the parked call is not retrieved within a specified time, the call rings back to your telephone. When a parked call recalls your telephone, the LCD shows the line or extension that is recalling and the orbit number.

► To retrieve a parked call

1. Press **Park in Orbit**
...or press your extension button + **#32**.
2. Enter the Orbit Number where the call is parked or **#** for the extension from which you are calling. You cannot use ***** to retrieve a parked call. The extension LED flashes at the in-use rate when the call is retrieved.

Call Pickup

You can pick up a call that is ringing another station's extension, a call placed on hold at another station and other types of calls. When you pick up an internal call, the calling station and the called station displays on your LCD.

Group Pickup

Stations can be assigned in system programming to Pickup Groups. As many as 32 groups can be created to enable you to easily pick up incoming (new or transferred) or internal calls that are ringing stations that are in your group or in other groups. This feature does not pick up held calls. You may belong to more than one group. See your CTX System Administrator for group assignments.

Ringing, Page or Held Call Pickup

This feature picks up ringing or held calls, including Group Page and All Call Page calls. If these types of calls occur at the same time, the pickup priority is station-to-station and then Page calls in the order of occurrence. In some systems, this feature can be applied to pick up All Call Page exclusively.

► To perform Call Pickup

► Press the buttons shown in the table below for the desired Pickup feature.

Table 3 Call Pickup Feature Codes

Ringing or Page Calls	To Pick Up:	Press Ext. Button, then dial the access sequence below:
Directed DN	A call ringing or held at the Extension Number.	#5#6 + Ext. No.
	A call Ringing, held or parked at the Ext. No.	#5#29 + Ext. No.
Group	A call ringing a member of your pickup group.	#5#34
Directed Ext.	A call ringing on any line of this Primary Ext. No.	#5#5 + Primary Ext. No.
Directed Group	A call ringing an extension in this Pickup Group.	#5#32 + Group No.
Ext. No.	A call ringing this Ext. No. only. Other lines ringing on the same phone are unaffected.	#5#22 + Ext. No.
Outside Calls	Any incoming outside line call.	#5#9
All Call, Group, and/or External Page	An All Call Page, Group Page and/or External Page by Page Zone or by a specific Ext. No.	#5#36 + Page Zone No. (01~08)
		#5#5 + Ext. No. of another phone being paged.
Held Calls	To Pick Up:	Press Ext. Button, then dial the access sequence below:
Local Retrieve	A call held on this telephone.	#5#71
Remote Retrieve	A call held on another Primary Ext. No.	#5#72 + Primary Ext. No.
Outside Line Retrieve	A call held on this outside line only, regardless of the phone that placed the call on hold. Must enter a three digit outside line no. (e.g., 007).	#5#73 + Outside Line No. (001~128)
Directed Ext. Retrieve	A call held on for this Ext. No., regardless of where this Ext. No. appears.	#5#74 + Ext. No.

Notes

- The Primary extension number is the directory number by which the telephone set is defined. Other, non-primary extension numbers may also appear on the telephone. By convention, the Primary extension number is assigned to the first button on a multi-button telephone.
- If more than one call is on hold, the call on the telephone's lowest button number is picked up.
- Ringing calls are picked up over held calls as a priority.

Call Waiting

You can answer a call that is transferred to your station, even when your station is busy. When another call is camped onto your station, you hear two Camp-on tone beeps and the extension or Line LED flashes red (on-hold).

If a call is sent to your station when busy, and your station does not have an extension button available to receive the call, two camp-on tone beeps are sent to your telephone. You must disconnect or transfer the existing call to answer the waiting call.

➤ To answer a waiting call by placing the current call on hold

- Press **Hold**. The existing call is placed on hold. The camped-on line rings your station (the Line LED flashes green - incoming call)...or if your telephone has the Auto Hold feature, just press the flashing extension button.

You are connected to the transferred call. The extension or Line LED flashes green (in-use).

Note See your CTX System Administrator to find out if you have Auto Hold.

➤ To answer a waiting call by disconnecting or transferring the current call

- Hang up or transfer the existing call; the camped-on call rings your station. The camped-on line rings your telephone and the Line LED flashes green (incoming call).

...or press the flashing extension or **Line**. The existing call is placed on hold. The camped-on line rings your station (the Line LED flashes green - incoming call). This disconnects the current call and connects you to the transferred call. The extension or Line LED flashes green (in-use).

Direct Inward System Access (DISA)

Outside callers with touch tone telephones can call in to lines programmed for Direct Inward System Access (DISA) and dial an extension or outgoing line without going through an attendant or operator. See your CTX System Administrator for details.

1. From outside the system, dial the public telephone number assigned to DISA. The call will be answered and you will hear system dial tone.

If you do not dial within 10 seconds, the line disconnects.

2. When you hear dial tone, dial an extension or an outside line.
3. If you dial an outside destination, you may need to enter a security code provided to you by the CTX System Administrator. When you hear the tone, enter the security code. If accepted, the call will proceed.
4. If you receive busy tone and you want to dial another number while the station is still ringing, press * and repeat Step 2.

Direct Station Selection Buttons (Hotline)

This optional feature enables you to use a **DSS** button to connect directly to another station's line extension. The DSS LED shows the status (idle/busy) of the station and/or the station's primary extension. For example, a station's DSS button LED shows busy (light steady red) when the station is:

- busy on a call on any button
- idle but all appearances of the station's extension are in use by other stations.

When the station is in DND, the LED flashes red.

► To connect directly to another station's extension

1. When connected to a line or another station, press **DSS**.

The original party is put on-hold. You can call a station even if the DSS LED shows busy (steady red).

2. Announce the call...or transfer the call by hanging up or pressing **Release**.

Note You can transfer the call to an idle or busy station.

Distinctive Ringing

➤ To set distinctive ringing (CTX software R1.2 or lower)

1. Press **#9876** to enter User Programming Mode.
2. Press a **Line** button. The Line LED is steady green.
3. Enter the ringing pitch number:
11 = Low, **12** = Middle, **13** = High, **14** = Combination
4. Lift the handset to return to idle.

➤ To set distinctive ringing (CTX software R1.3 or higher)

1. Press **#9876** to enter User Programming Mode.
2. Press a **Line** or extension button. The LED is steady green.
3. You can press **Hold** to switch between internal and external pitch. (Internal = station calls within your system; external = outside line calls.)
4. Enter the two-digit pitch number (see table):
5. Press the same button that you pressed in Step 2 (**Line** or extension). Two beeps is a confirmation tone and “DATA PROGRAMMED” displays on your LCD.

Table 4 Internal and External Call Ringing Tones

Tone No.	Frequency and Cadence
01	500 Hz 1 sec. On, 3 sec. Off, repeat
02	1300 Hz 1 sec. On, 1 sec. Off, repeat
11	500/640 Hz 1 sec. On, 3 sec. Off, repeat
12	500/640 Hz 1 sec. On, 1 sec. Off, repeat
13	860/1180 Hz 1 sec. On, 3 sec. Off, repeat
14	860/1180 Hz 1 sec. On, 1 sec. Off, repeat
15	1300/1780 Hz 1 sec. On, 3 sec. Off, repeat
16	1300/1780 Hz 1 sec. On, 1 sec. Off, repeat
17	860/1180 Hz 0.5 sec. On, 1300/1780 Hz 3 sec. Off, repeat
18	860/1180 Hz 0.5 sec. On, 1300/1780 Hz 1 sec. Off, repeat

Do Not Disturb

If your station is in Do Not Disturb (DND) mode, internal, external and transferred calls do not ring your station and Off-hook Call Announce calls are denied. You can continue to make calls while in the DND mode. When originating a call in DND mode, you will hear a short burst of interrupted dial tone followed by continuous dial tone. You can start dialing at any time during either tone.

If you put your Primary extension into DND mode, all calls to that telephone are rejected. If your extension is set for Call Forward-Busy or Call Forward-Busy/No Answer, the call is redirected to the forwarding destination immediately.

If you put an extension other than the Primary extension into DND, only calls to that extension on your telephone will be blocked. Appearances of that extension on other telephones continue to ring.

➤ To activate DND on your Primary extension

- Press **Do Not Disturb** or **#6091** (hear Success Tone). The LED lights steady red and DND mode is activated for the entire station.

➤ To activate DND on a non-Primary extension

- Press the desired extension appearance and **Do Not Disturb** or **#6091** (hear Success Tone). The LED lights steady red and DND mode is activated for that extension on your telephone.

➤ To deactivate DND

- Press **Do Not Disturb** or **#6092** (hear Success Tone). The LED lights goes out and DND mode is de-activated.

Setting DND for Another Extension

➤ To activate DND for another extension

- Enter **#6191** (hear Entry Tone) + the Primary extension of the remote extension + the pass code + **#** (hear Success Tone). This sets DND as if activated by the Primary extension on the target telephone.

➤ To deactivate DND for another extension

- Enter **#6192** (hear Entry Tone) + the Primary extension of the remote extension + the pass code + **#** (hear Success Tone). This removes DND from the target telephone.

➤ To change your DND Pass Code

- Enter **#670** (hear Entry Tone) + ext. no. (hear Entry Tone) + old pass code + **#** (hear Entry Tone) + new pass code + **#** (hear Success Tone).

If you activate DND while a call is ringing, the ringing stops. The LED continues to flash on your telephone and ring on other appearances.

Door Lock(s)

Your telephone may have **Unlock Door** button(s). Each **Unlock Door** button is programmed to unlock a specific door. Check with your CTX System Administrator to find out the locations of your system's door phones and record them below.

Door Lock No.	Location
0	
1	
2	
3	
4	
5	

Door Lock No.	Location
6	
7	
8	
9	
10	

➤ To unlock a door

- Press the specific **Unlock Door** button or **#12** + the Door Lock Number (see above table). The door unlocks for three~30 seconds (set in system programming). The Unlock Door LED is lit while the door is unlocked.

Door Phone(s)

Door phones can be used to call phones selected in system programming. When a door phone calls, you hear a distinctive ringing tone, one or five times (set in system programming). You can also call a door phone and monitor the surrounding area.

LCD telephones display the door phone name ID when calls are made to or from door phones.

The number of possible door phones varies by Strata CTX system, 01~24 maximum for larger systems. Check with your CTX System Administrator to find out the names and locations of your system's door phones and record them below.

Door Phone	Name/Location	Door Phone	Name/Location

➤ To answer a door phone call

- When you hear a door phone call ringing, lift the handset or press the ringing button. A door phone call sounds like chimes (high/low). The extension LED flashes green (in-use) and you are connected to the door phone.

...or to pick up door phone calls ringing someone else's telephone, press your extension + **#5#5** + directory number of the ringing phone.

➤ To call/monitor a door phone

1. With the handset off-hook, press an extension button. You hear dial tone and the LED flashes green (in-use).
2. Press **#15** (hear three tone bursts), then enter the door phone number (01~24, depending on system size). A two-way talk-path exists between your telephone and the door phone. The door phone will not ring. You can audibly monitor the area around the door phone.

➤ To call from a door phone

1. Press the door phone button and then release it. You hear a distinctive ringing tone—one or five times (set in system programming).
2. When answered, speak at a normal voice level in the direction of the door phone.

Echo Cancellation

- If you hear echo on your IP telephone, tap either **Vol ▲** or **Vol ▼** once to cancel the echo.

Emergency Call

- To make an emergency call, dial **911**.

Emergency Monitoring Station

Your system may have one digital telephone assigned as an emergency monitoring station. If your telephone has this assignment, your line LED will flash green when someone makes a **911** call. When you answer the call, you can listen in and participate in the conversation. See your System Administrator for more information on this feature.

Emergency Ringdown

If a station remains off-hook for a programmable period, it can be automatically treated as an Emergency Call and directed to an emergency destination. The station may have partially dialed a number or have dialed no digits at all. Each station is programmed with its specific emergency ringdown destination.

A station number or a group pilot number can be specified as an emergency ringdown destination. In a private network, the station or pilot number must be in the same network node. Remote emergency destination and door phones are not permitted.

Language Codes

This feature enables you to change the language sent from the Attendant Console or from a PC. See your CTX System Administrator to find out if your telephone is programmed with the ability to change languages.

➤ To change the Language Display

➤ Enter the Change Language access code **#495** + the Language Code (see below).

1: English date format – **MM/DD (/YY)**

2: British English – **DD/MM (/YY)**

3: French – **DD/MM (/YY)**

4: Spanish – **DD/MM (/YY)**

Microphone Cut-Off

This feature prevents callers from monitoring the sounds near your telephone when your telephone receives a Handsfree Call or cuts-off the telephone microphone while on a speakerphone call. When the feature is ON, the Microphn Cut-off LED lights steady red and the Mic and Spkr LEDs do not light when your telephone is called. When the feature is OFF, the Microphn Cut-off LED is not lit and your microphone works. The **Microphn Cut-off** functions on Handsfree Answerback and speaker OCA calls for privacy.

➤ To turn the microphone ON/OFF

➤ Press **Microphn Cut-off** to toggle between ON/OFF.

Off-hook Call Announce

Off-hook Call Announce (OCA) enables you to complete a call to a *busy* digital telephone. Your telephone must be programmed to either announce automatically or to announce after you press a button on your dial pad. The destination telephone must be programmed to accept an OCA. The announcement may be delivered over the handset or the speaker.

Handset OCA Announce can operate on any digital telephone. Speaker OCA requires the addition of a special circuit board inside the IPT speakerphone.

➤ To make an OCA call

- **Manual** – Dial an extension. When you hear busy tone, press **5** and, after one long tone, you can talk through the speaker of the destination telephone. The person you are calling has answering options described below.
- **Automatic** – If your telephone and the extension you are calling have been programmed for Automatic OCA, you can talk through the speaker of the destination telephone without hearing the busy tone and without dialing **5**.

➤ To answer a Handset OCA call

While you have a call in progress, you hear one tone in your handset to indicate that a second station is calling.

- Press **Mic** to toggle between the new and original callers.

You talk to the new caller for as long as you hold down **Mic**. When you release the button, you return to the original caller. In both cases, neither caller can hear the other. Your LCD indicates which station or CO line you are connected to.

➤ To answer a Speaker OCA call

Note This feature is not available on the IP telephones.

1. While you have a handset call in progress and you hear one tone, this indicates that a second station is calling. The second caller connects to the speaker in your telephone. The Spkr LED flashes and the Mic LED lights. You will be speaking to the first caller through your handset and the second caller through the microphone.
2. To turn off your microphone speaker to the second party, you can press **Mic** or **Microphn Cut-off**; the Mic LED turns Off. You will no longer be talking to the second caller, although he/she can still speak through your speaker.
3. Press **Mic** or **Microphn Cut-off** again to reconnect to the second caller. You can toggle as often as you choose. If you do not want the first caller to hear your conversation with the second caller, cover the mouthpiece of your handset.

Override Calls

The available override features are:

Busy Override

Ring Over Busy Override enables you to send a muted ring tone to a busy station to indicate a call is waiting. The Busy Override (BOV) muted ring can be programmed for each station to be two muted rings only or continued muted rings until the call is answered. This option applies to the station receiving the muted ring. The muted ring can be sent to the telephone speaker or to the telephone handset/headset and speaker.

► To use Busy Override

- After reaching a busy station, press **2**. A muted tone is heard at the busy station, indicating that a call is waiting. The station number displays.

Do Not Disturb Override

Do Not Disturb (DND) Override lets you send a call waiting tone or ringing to a station in DND mode to indicate that a call is coming in. Your telephone may be programmed to block DND Override from other telephones. Your station's LCD shows the station you have called is in the DND mode.

OCA is possible to DND stations from stations that are programmed for DND Override.

► To use DND Override

- After reaching a station in DND mode, press **2**. A tone signal is heard at the DND station, indicating a call is coming in. On your station, the LCD shows the station number you have overridden.

Your LCD displays **DND OVR DENY**, if the station you called denies DND Override.

Executive Override

Executive Override enables you to enter an established conversation. Your telephone can also be programmed to block Executive Override from other telephones.

➤ To perform Executive Override

- After reaching a busy station, press **3**

...or, if you have an LCD telephone, use the **OVRD** Soft Key.

You enter a conference with the busy station and the party to whom he was talking. The called parties may hear an optional tone signal prior to your entering the conversation.

Your LCD displays **EXEC OVR DENY**, if the station you called denies Executive Override. If you do not have Override privileges, you will camp on.

Destination Restriction/Traveling Class Override

Enables a station user to override the Destination Restriction or Traveling Class of a particular telephone by entering a pre-determined account code.

➤ To use Destination Restriction or Traveling Class Override

1. Press **471**. Confirmation tone plays and the LCD shows “Enter OVR Code.”
2. Enter the trunk access code or LCR access code.
3. Dial the external telephone number.

Class of Service Override

By dialing a Class of Service (COS) Override code, a user can change a station's set of privileges to one associated with the override code. When the call is terminated and another is attempted from the same station, the original COS is applied. This allows selected users to override restrictions that are placed on any telephone in the system.

► To perform Class of Service Override

1. Access an outside line. You hear dial tone and the LED flashes at the in-use rate.
2. Press **Cnf/Trn** + **#471**. Dial tone stops. Your LCD prompts you to enter a code.
3. Enter the COS Override Code (four digits). You hear dial tone. For security reasons, the override codes are only available on a selected basis. See your CTX System Administrator.
4. Dial a telephone number.

Privacy Override

This feature enables you to enter an established call on a line you share with another telephone. Up to two station users can enter an existing CO line-to-station call (i.e., up to three stations can be connected to a CO line). You can also use this feature if the station that is already connected to the CO line is in the Privacy Release mode.

Station users with **Privacy Release** can allow stations with the shared button appearance to enter their conversations, even if the station entering the conversation is not programmed for Privacy Override. (see [“Privacy” on page 57.](#))

Paging

Station users can make page announcements to telephones and external speakers. Check with your CTX System Administrator to find out the zone numbers for various paging groups.

► To make a Page Announcement to telephones or external speakers

1. Lift the handset, press extension and enter a paging access code.
2. Make your announcement, then hang up.

► To make a Group Page

- Press **Group Page** and enter the Group number (01~16)
...or press extension + **#31** and enter the zone number.

Answering a Page

- To answer a Group Page, lift the handset off-hook, press extension + **#5#36** and enter the Page Zone number (01~08, depending on your telephone system).
- To answer an External Page Zone, lift the handset off-hook, press extension + **#5#36** and enter the Page Zone number (01~08, depending on your telephone system).

All Call Page

You can make an All Call Page to telephones assigned to the “All Call Page Group.” Stations are assigned to the “All Call Page Group” in system programming.

➤ To make an All Call Page

1. With the handset off-hook, press **All Call Page**
...or extension + **#30**. This pages all telephones in the All Call Page Group but, depending on system programming, you may or may not page external speakers.
2. Make your announcement then hang up.

➤ To answer an All Call Page

1. Lift the handset off-hook, press extension + **#5#36**.
2. Enter the Page Zone Number (01~08, depending on your telephone system).

Emergency Page

An Emergency Page overrides Group Pages or All Call Pages to telephone and external paging devices.

- To make an Emergency Page, lift the handset off-hook, press extension + **#37**.
- To make an Emergency Page to a group, lift the handset off-hook, press extension + **#38** and enter the Group number.

Privacy

Privacy controls the ability of more than one person to use the same extension or CO line at the same time. Privacy applies to multiple appearances of extensions, Phantom extensions, outside Lines and outside Line Group buttons. The application of Privacy to individual telephones is controlled in system programming.

By default, the system is private. If you are in a conversation, another telephone with an appearance of the line on which you are talking cannot intrude unless that telephone has been programmed for Privacy Override. In that event, the other telephone may enter and leave the conversation at will. If all users are provided with Privacy Release in Class of Service, the system will function as non-private.

Your telephone may be equipped with a **Privacy Release** and/or a **Privacy on Line** button. On a normally private telephone, **Privacy Release** allows other appearances of your line to join the conversation. On a normally non-private telephone, **Privacy on Line** allows you to exclude others. The Privacy condition may be toggled at any time during a conversation. At the end of the conversation, the line's privacy condition returns to its original state.

➤ To use Privacy Release

- While on a CO line call, press **Privacy Release**. The LED lights red. The outside line flashes at all appearances. When another station user enters the outside line call by pressing a common outside **Line**, the Privacy Release LED turns Off. To add a third station, press **Privacy Release** again; the process repeats.

➤ To set/cancel Privacy

- Press **Privacy on Line** to set privacy. The LED lights steady red. Others are blocked from entering your outside line calls when they press a common **Line** ...or press **Privacy on Line** again to cancel the feature. The LED turns Off.

Redial

Use this button to redial the last number dialed from your telephone.

- To redial the last number, press **Redial** or ***0**.

Speed Dial

Speed Dial (SD) enables you to dial a sequence of up to 32 digits with a shorter code. Dial sequences can include telephone numbers, authorization codes, passwords feature activation codes and pauses. Speed Dial may be used to originate a call or invoked after a call is established. There are two types of Speed Dial:

- **Station SD** – Your CTX System Administrator allocates a block of up to 100 personal SD numbers (10 per telephone). You have exclusive use of them and you can create and change them from your own telephone. If you have a IPT3014 telephone, you can assign names to your station SD numbers to appear on the Personal SD Directory display (see your CTX System Administrator or use the procedure for [“Storing Personal Speed Dial Names” on page 74.](#))
- **System SD** – All telephones in your system can share a list of up to 800 System Speed Dial numbers under the exclusive control of the CTX System Administrator. In some cases, System Speed Dial enables you to reach numbers that you would not be allowed to dial directly from your telephone.

Making a Call Using Speed Dial

There are two ways to begin a Speed Dial Call.

1. Press **Spdial** on a DKT3000-series digital telephone
...or press the * button on any telephone.
2. Dial the Station or System Speed Dial Number. Station Speed Dial numbers occupy numbers 100~199. System Speed Dial numbers occupy numbers 200~999.

Table 5 Speed Dial Access Codes

Feature	Feature Access Code Sequences
Speed Dial (Dialing an SD number)	
Station ¹	Spdial² + nnn nnn = 100~199 Station SD bin numbers
System ¹	Spdial² + nnn nnn = 200~999 System SD bin numbers

1. Stations must be assigned/enabled Speed Dial capabilities in system programming by an Administrator in Program 200-30 (System SD) and Program 200-35 (Station SD).
2. If your telephone does not have a **Spdial** button, press the * button, then dial the three digit Speed Dial bin number (nnn).

Accessing System SD and Personal SD Directories

Names can be assigned to System and Station (personal) Speed Dial numbers. These directories appear on large screen IPT2008-SDL and DKT3014 telephones only.

► To access the SD directories

1. Press the Soft Key next to **SYSTEM SD** or **PERSONAL SD** to view the first screen.
2. Press the **MORE** Soft Key to view following pages; press **PREVIOUS** to page back.
3. To dial from the list, press the Soft Key next to the name. The system calls the number assigned to the name and displays the dialed number.
4. To assign names to your Personal (Station) SD numbers, see [“Storing Personal Speed Dial Names” on page 74.](#)

Storing a System/Station Speed Dial Number

1. Dial **#66**. The display shows “SPEED DIAL” and you hear Entry Tone.
2. Dial the Station Speed Dial number (100~199) or System Speed Dial number (200~999). The LCD shows your digits and you hear Entry Tone.
3. Dial the telephone number to be stored + **#**. Include any required access and area codes. The LCD shows “SPEED DIAL” + the Speed Dial Number + destination + **#**. You hear Success Tone.
4. Release the telephone. To enter another number, repeat the process, starting with Step 1. Refer to [Table 6](#) below.

Example: To store a Station Speed Dial number on Index 100, dial **#66 + 100 + 99495833000 + #**

Table 6 Feature Access Codes

Feature	Feature Access Code Sequences
Speed Dial (Storing an SD number)	
Station ¹	#66 + nnn + Phone No.² + # nnn = 100~199 SD bin numbers
System ¹	#66 + nnn + Phone No.² + # nnn = 200~999 SD bin numbers

1. Stations must be assigned/enabled Speed Dial capabilities in system programming by an Administrator in Program 200-30 (System SD) and Program 200-35 (Station SD).
2. Refer to [Table 7 on page 60](#) to see how to enter * and # into a speed dial phone number.

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Storing a System/Station Speed Dial Number

IPT2008-SDL Name Storage

If you have a IPT2008-SDL phone, you can store names for Personal SD numbers (see [“Storing Personal Speed Dial Names”](#) on page 74).

Advanced Speed Dial Operation

Special Characters

SD numbers may include **0~9**, **#**, ***** and Pause.

Table 7 Phone Number Dial String Characters

Entry	Meaning
0~9	0~9
#	End of Speed Dial Number when entering via access code (#66)
*	Escape. “*” functions as an escape key indicating that the number immediately following represents something exceptional. When * is used as an escape character, it consumes one Speed Dial digit. Entering *7 to insert a seven-second pause would use two of 32 characters.
* (1 ~ 9)	A pause from 1~9 seconds. To pause longer than 9 seconds, enter more pause escape sequences. Example: To insert a 17-second pause, press *9*8. A “P” displays denoting a pause in the SD number. In this example, you would see “PP.”
**	* is entered into the speed dial string.
*#	# is entered into the speed dial string.

Long SD Numbers

Up to 32 digits can be stored in one SD number bin. If you exceed 32 digits, the excess are stored in the next higher bin and consume the next sequential SD number.

You can dial the entire string by entering the original SD number. All digits will be sent, including those in excess of 32. If that were Speed Dial Number 100, Number 101 would no longer be available. You are not prevented from storing a new Number 101 but, if you do, Number 100 will be shortened to 32 digits.

Tone/Pulse Dialing

With some older Central Offices, you may have to make calls on outside lines programmed for rotary dial pulses. This feature enables you, while on these lines, to switch to tone dial to access remote equipment (such as an answering machine) requiring touchtones.

Note With ISDN calls, when **Tone Dial Select** is pressed, all of the digits entered after that point will be sent with touchtones.

► To change Tone Dialing

1. Access an outside line.
2. Dial a telephone number.
3. While on the call, press **Tone Dial Select**. Although the outside line is programmed for rotary dial pulses, access the outside line and dial the telephone number like any other call described in this user guide.

The Tone LED lights steady red and you are able to send touchtones with your dial pad. The feature is cancelled when the call is completed.

Voice Mail Call Monitor

System Availability: Only with Strata CTX28

Important! *This feature is not available on the IP Telephones when connected to a Strata CTX.*

Using the flexible **Call Monitor** button on your telephone, you can listen to a caller while the caller records a message in your voice mailbox. You can also answer the call while the message is being recorded. When the call is picked up the message recording stops.

➤ To enable and disable Call Monitor on your telephone

1. While on hook, press the idle Call Monitor button. You hear the voice prompt “Enter your security code.”
2. Enter your voicemail password (maximum of 16 digits; numbers 0~9). LCD displays “Talk to xxx,” where xxx = voice mail port DN.
3. Press #.

You’ll hear the voice prompt “Call Monitor Enabled.” The LCD now displays “Logged into VM” briefly and then displays the original information.

The Call Monitor LED light turns solid green.

- Press the **Call Monitor** button to disable Call Monitor. The Call Monitor LED will turn off.

➤ To monitor a call using Call Monitor

1. The flashing green Call Monitor button indicates that a message is being recorded in voice mail.
2. Using the speakerphone, press the Call Monitor button. The Call Monitor LED flashes red. You can hear the caller leaving the message, but the caller cannot hear you.

The LCD displays “Monitoring VM xxx,” where xxx = Caller’s DN.

3. To talk to the caller, press the Call Monitor button again (The LED changes from flashing Red to solid Green).

The LCD display indicates the extension or line connection.

Voice Mail - Direct Transfer

The Strata CTX enables you to transfer a call directly to a voice mailbox without first ringing that person's telephone.

➤ To transfer a call directly to Voice Mail (VM)

1. While on a call, press **Cnf/Trn**. You hear feature dial tone.
2. Enter **#407**. You hear entry tone.
3. Enter the VM mailbox number (usually the same as the extension number), then press **#**. The call transfers immediately and your extension becomes idle.

Voice Mail Soft Keys

This section provides simple definitions of the Strategy ES (including the Strategy iES32) Voice Mail Soft Keys. Once your telephone is connected to your Strategy ES voice mailbox, the LCD displays the Strategy ES Main Menu options shown in [Table 8](#) below.

You are then able to perform many of the standard Strategy ES voice mail functions using the Soft Keys on your telephone. [Table 9](#) shows a sample of some of the available Soft Keys.

For more information on Strategy ES voice mail features, refer to the *Strategy Voice Processing User Guide*.

Table 8 Strategy ES Main Menu Soft Keys for Strata CTX Telephones

IPT 2008 SDL DKT3014	DKT3007 SD DKT3010 SD DKT 3020 SD IP Telephones	DKT 2010 SD DKT 2020 SD	Voice Mail Functions
PLAY MSGS	PLAY	PLAY	Play Messages
SEND	SEND	SEND	Send Messages
MANAGE MBX	MGMT	MGMT	Manage Mailbox
EXIT			Exit Mailbox
HANGUP	QUIT		Disconnect from Strategy ES

Advanced Operation

Voice Mail Soft Keys

Table 9 Soft Keys for Strata CTX Telephones

IPT 3014 SDL	DKT3007 SD DKT3010 SD DKT 3020 SD IP Telephones	DKT 2010 SD DKT 2020 SD	Voice Mail Functions
ACCEPT			Confirm automatic copy destination
ADD	ADD	ADD	Create a Guest Mailbox
ADD DESTS			Additional Destinations
ADD MBX	ADD	ADD	Add a mailbox to the list
ALL MSGS			Copy All Messages
AM?			AM
APPEND	APND		Append recording
AUTO COPY			Set Automatic Msg Copy
BACK UP			Backup (rewind)
BSY GRT REC			Record Busy Greeting
BUSY GREET			Select Busy Greeting (toggle)
CALL SCREEN			Change Call Screening (On/Off)
CANCEL			Cancel recording
CANCEL MSG	CANC	CNCL	Cancel message and select new destination
CHANGE			Change notification digits
CHG GREETING	GRT	GRT	Change Greeting
CONT DELETE			Continuous Delete
CONT PLAY			Continuous Play
DATE & TIME	DATE		Message Date and Time
DELAY TIME			Set Delay Time
DELETE	DEL	DEL	Delete the message/guest mailbox
DELETE MBX	DEL	DEL	Delete a mailbox from the personal distribution list

Table 9 **Soft Keys for Strata CTX Telephones** *(continued)*

IPT 3014 SDL	DKT3007 SD DKT3010 SD DKT 3020 SD IP Telephones	DKT 2010 SD DKT 2020 SD	Voice Mail Functions
DELETE MSG			Delete message (Future Delivery Review)
DESTINATION			Enter automatic copy destination
DIRECTORY	DIR	DIR	Directory plus name
DND	DND	DND	Change Do Not Disturb (On/Off)
ENABLE/ DISABLE			Enable/Disable: • Notification template (toggle) • Automatic copy
END TIME			Set copy End Time
FOLDERS	FLDR		New/Saved message folder
FORWARD	FWD	FWD	Forward the current message
FUTURE DLVR			Set Future Delivery, Future Delivery Review
GO FORWARD			Go forward (advance)
GUEST MBXES	GST	GST	Manage Guest Mailboxes
IMM ALL FAX	SNDN		Immediate Fax (all faxes in folder)
IMM THS FAX	SND1		Immediate Fax (current fax doc)
MARK PRIVAT	PRV	PRV	Set Private status (On/Off)
MARK URGENT	URG	URG	Set Urgent status (On/Off)
MSG FOLDERS	FLDR	FLDR	Manage Personal Folders
MSG NOTIFY			Change message Notification
MULTI ENTRY	MULTI	MULTI	Multiple Destinations
NAME RECORD	NAME	NAME	Record your Name
NEXT	NEXT	NEXT	Play next message

Advanced Operation

Voice Mail Soft Keys

Table 9 **Soft Keys for Strata CTX Telephones** *(continued)*

IPT 3014 SDL	DKT3007 SD DKT3010 SD DKT 3020 SD IP Telephones	DKT 2010 SD DKT 2020 SD	Voice Mail Functions
NEXT MSG			Play next message (Future Delivery Review)
NEXT NAME	NEXT	NEXT	Play next name
PAUSE	PAUS	PAUS	Pause recording
PAUSE PLAY			Pause playback
PER DST LST	LIST	LIST	Manage Personal Distribution Lists
PERSONAL LIST	LIST	LIST	Personal distribution list (1~25)
PM?			PM
PREVIOUS			Play the Previous message
PREV MENU	PREV		Return to previous menu
REC COMMENT	COMM	COMM	Record a list Comment
RECORD	REC	REC	Record
REENTER			Re-enter automatic copy destination
REENTER NAM	REDO	REDO	Re-enter name or Exit
REPLAY			Replay current message
REPLY	RPLY	RPLY	Reply to the current message
RE RECORD	RREC	RREC	Re-record
RESET PWORD	RSET	RSET	Reset Guest Password
RETRN RECPT	RTRC	RTRC	Set Return Receipt request (On/Off)
REVIEW	RE VW	RE VW	Review recording/guest mailboxes
REVIEW LIST	RE VW	RE VW	Review current list
REV OPTIONS			Review Option Settings
SAVE	SAVE	SAVE	Save the message/recording/changes

Table 9 **Soft Keys for Strata CTX Telephones** *(continued)*

IPT 3014 SDL	DKT3007 SD DKT3010 SD DKT 3020 SD IP Telephones	DKT 2010 SD DKT 2020 SD	Voice Mail Functions
SAVE MSG			Save message (Future Delivery Review)
SECURITY COD	CODE	CODE	Change Security Code
SELECT NAME	PICK	PICK	Select name
SEND MSG	SEND	SEND	Send and Return to Main menu
SET DAY			Set the Day (1~31)
SET HOUR			Set the Hour (1~12)
SET MINUTES			Set the Minutes (0~59)
SET MONTH			Set up Month (1~12)
SET YEAR			Set up Year (last two digits)
SPCL FUNCT	SPCL		Special Functions
SND ALL FAX	FAXN		Send All Fax (in folder to fax dev)
SND THS FAX	FAX1		Send Current Fax (to fax device)
SPCIAL SEND	SPCL	SPCL	Special Delivery Options
START TIME			Set copy Start Time
STOP	STOP	STOP	End recording
URGENT MSGS			Copy Urgent Messages
USER OPTNS	OPTN	OPTN	Change User Options
YES			Resume playback

Call Recording

While on an active call, a station user can record the conversation and store it in a Strategy voice mailbox. Recordings can also be paused or restarted. Depending upon your System Administrator, you are given either a manual method of recording that allows you to designate the mailbox where the recording will be sent or an auto method that automatically sends the recording to a predefined mailbox that is assigned to the phone you are using. This may be your personal mailbox.

Note Ask your System Administrator which method to use when recording a call.

This feature requires the presence of a **Record** and a **PS/RES** (Pause/Resume) button on your telephone. Feature codes are not available.

Important! *Strategy ES mailboxes have a definable limit on the length one message can be. If you plan on making lengthy recordings, see your System Administrator so your message recording time can be properly defined.*

➤ To record a call

1. With a call in progress, press **Record**.

If you are using the *auto method*, the Record LED flashes rapidly and there is approximately a one second interval (in extreme busy conditions, up to five seconds) before the recording starts and the Record LED changes to the in-use interval flash rate. You are now recording. Continue to Step 3.

...or if you are using the *manual method*, the Record LED flashes green rapidly. Continue to Step 2.

2. (Manual method only) If you want to record the call to the predefined mailbox associated with the phone you are using, press **#**. The Record LED flashes rapidly and there is approximately a one second interval (in extreme busy conditions, up to five seconds) before the recording starts and the Record LED changes to the in-use interval flash rate. You are now recording.

...or if you want to record this call to another mailbox, enter the mailbox number (usually the extension number). Finish by pressing **#**. The Record LED flashes rapidly and there is approximately a one second interval (in extreme busy conditions, up to five seconds) before the recording starts and the Record LED changes to the in-use interval flash rate. You are now recording.

3. To stop recording, press **Record**. The LED turns off and the recording stops. To resume recording at this point, you need to begin a new recording, see Step 1.

Notes

The following notes apply to telephone systems that are networked. For instance, if your company is so large that some departments are connected to one system (node) and others are on another (either in the same building or in another city), the telephones on the other node are considered “remote” stations.

- When a station that started voice recording puts a line on hold (consultation-hold or line-hold), voice recording stops and cannot be resumed.
- When a remote station (on another node in the telephone system) starts voice recording, then puts the call on hold, if that call is picked up by another station, voice recording continues.
- When a local Attendant “splits” two callers that were conferenced, voice recording stops. When a remote Attendant “splits” two callers, voice recording is unaffected.
- If a recorded call is put on Line hold, voice recording stops when that held call is picked up by another station. When the held call is in a different node, voice recording is unaffected when the held call is picked up.
- ACD or Attendant call monitoring cannot be used if voice recording is taking place. Conversely, if ACD or Attendant call monitoring is taking place, you cannot use voice recording.

Pause/Resume Recording

You can pause the recording while continuing the conversation by pressing **PS/RES**. The PS/RES LED flashes red. Your conversation is no longer being recorded.

To resume recording as part of the same message, press the **PS/RES** button again. You can pause and resume indefinitely throughout the conversation. The only limit may be a message length imposed by the voice mail system.

Other Voice Mail Features

Another voice mail feature lets you to include a voice mailbox in a conference call. See [“Adding Voice Mail to a Conference” on page 19](#). For instructions on the Strategy Voice Mail features, refer to the *Strategy Voice Processing User Guide*.

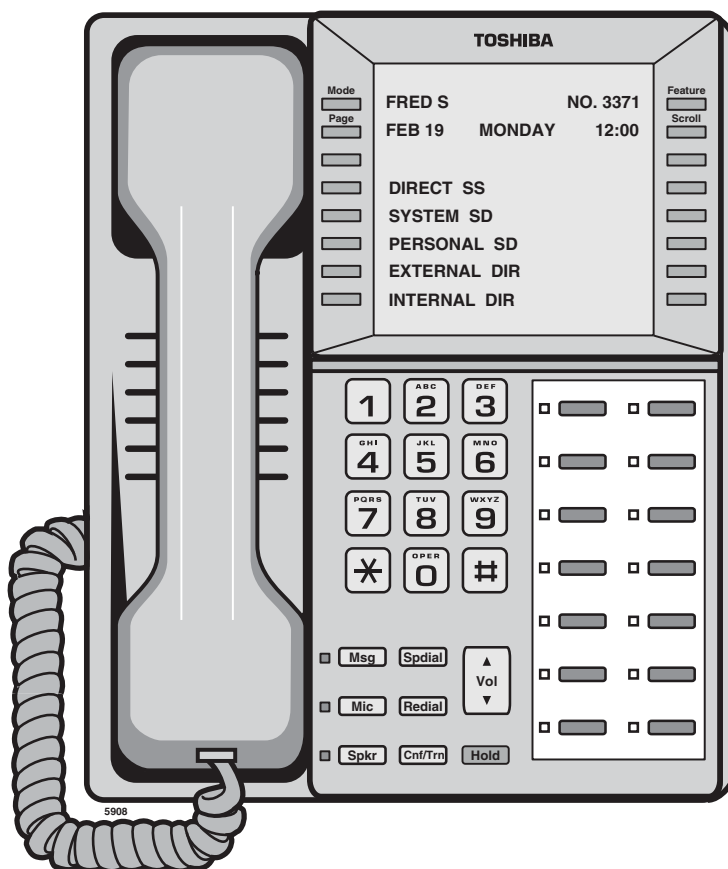
Advanced Operation

Call Recording

DKT3014 LCD Features

4

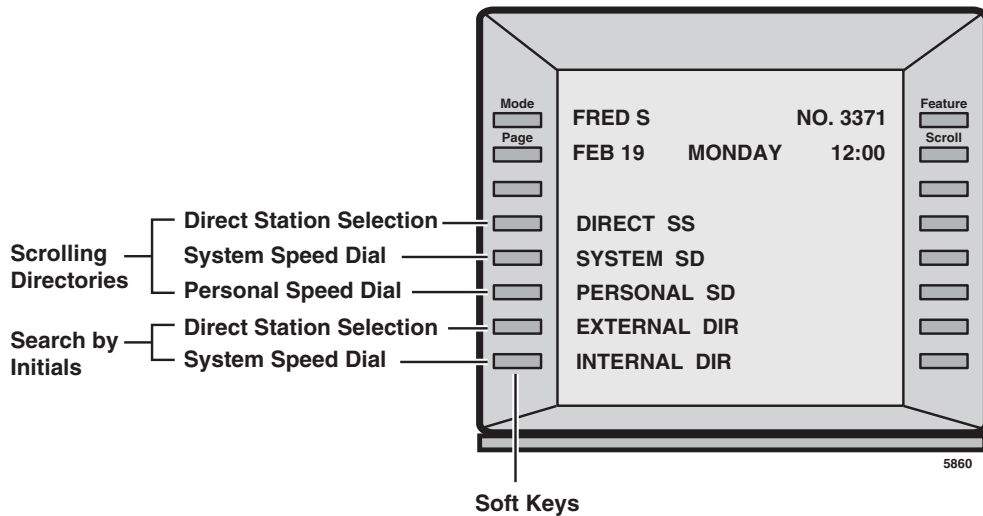
This chapter shows how to use the DKT3014 (shown below) large screen directory display and individual name searches.



DKT3014 Telephone

Directory and Speed Dial Listings

The directory menu (idle state) is shown below.



Direct Station Selection

This option displays all named stations in alphabetical order.

1. Press the **DIRECT SS** Soft Key to view the first screen.
2. To view the following page, press the **MORE** Soft Key; press **PREVIOUS** to page back.
3. To select someone from the list, press the Soft Key next to their name. The system calls that number.

FRED J	NO. 3371
MAR 18	MONDAY 01:35
BOB T	
DON U	
CAROL F	FRED M
CUST SERV	GRAY W
PREVIOUS	MORE
EXIT	

CALLING
3200

System Speed Dial and Personal Speed Dial

Using System Speed Dial and Personal Speed Dial is very similar to using Direct Station Selection, described above.

1. Press the Soft Key next to **SYSTEM SD** or **PERSONAL SD** to view the first screen.
2. To view the following pages, press the **MORE** Soft Key; press **PREVIOUS** to page back.
3. To select someone from the list, press the Soft Key next to their name. The system calls that number and displays its directory information.

Internal Directory and External Directory

External Directory enables you to search the System Speed Dial Numbers alphabetically (typically, external destinations). Internal Directory enables you to search all of the internal name extensions alphabetically. This saves time since you do not have to step through the lists screen-by-screen.

See [Table 10 on page 75](#) for instructions on entering letters, numbers and punctuation from the dial pad.

1. Press the **INTERNAL DIR** or **EXTERNAL DIR** Soft Key to view the first screen.

FRED J	NO. 3371
INPUT THE NAME?	
EXIT	FIND

2. Begin by entering the name (see [Table 10 on page 75](#)) and pressing the **FIND** Soft Key.

FRED J	NO. 3371
B	
LEFT EXIT	RIGHT FIND

If you entered “B,” all names beginning with “B” are listed. You can press the **MORE** Soft Keys to view adjacent pages.

3. To select someone from the list, press the Soft Key next to the name. The directory information displays.

FRED J	NO. 3371
B	
BAKER G	BALL F
BAWLER S	BRETON I
PREVIOUS	MORE
EXIT	FIND

4. Press the Soft Key next to the person or dept. you wish to call. The system calls and displays the directory information.
5. Press any key to return to the idle screen...or, from the directory listing screen, press **EXIT** to return to idle.

FRED J	NO. 3371
	00:00:01
	CONFERENCE
ABR	
PAGE	

Storing Personal Speed Dial Names

You can store names with Personal Speed Dial numbers. These names will display as Soft Keys, that can be used for dialing with the Personal SD directory on the IPT2008-SDL telephone.

Note Speed Dial bins (locations) must be assigned to your IPT2008-SDL telephone by your System Administrator before you can store names. Your CTX System Administrator can also associate names with Station Speed Dial numbers.

➤ To assign Station Speed Dial names

1. From a telephone connected to the Strata system, enter User Programming Mode by dialing **#9876** or, press **Program**.
2. Press **Spdial**. “SPEED DIAL MODE” displays on the LCD.
3. Enter a Speed Dial location number (100~199, depending on system programming).

4. Enter the telephone number to be stored. If you normally use a dial line access code (such as **9**) and/or an area code, enter the codes before the telephone number.



Example:

Press the  for "A."

Press the  again for "B," etc.

Refer to the table for other characters.

5. Press **Spkr**, then input the name that will appear in the Personal SD directory (nine characters max).

You can enter alphanumeric characters from the dial pad (shown right and in [Table 10](#)).

- To move one character to the right, press the **RIGHT** Soft Key. To add a space, press the **RIGHT** Soft Key twice.
- To backspace (delete previous character), press the **LEFT** Soft Key.
- To cycle back to the first letter, continue pressing the **LEFT** Soft Key.

Table 10 Dial Pad Alphanumeric Characters

Dial Pad Buttons	Number of times to press the dial pad button				
	1	2	3	4	5
1	-	.	:	,	1
2	A	B	C	'	2
3	D	E	F	!	3
4	G	H	I	&	4
5	J	K	L	*	5
6	M	N	O	#	6
7	P	Q	R	S	7
8	T	U	V	?	8
9	W	X	Y	Z	9
0	(	)	&	/	0

6. Press **Spdial**. The Speed Dial name is now programmed.
7. Go off hook. The IPT exits User Programming Mode.
8. Test the Personal SD entry by pressing the **Personal SD** Soft Key. Look for the name in the entry and press the Soft Key associated with that name.

DKT3014 LCD Features

Directory and Speed Dial Listings

User programming enables you to change your telephone's layout/registration and other settings. With user programming you can re-define Flexible Buttons to perform other functions.

- Enter numbers in your personal Speed Dial list
- Program One Touch and Flexible Buttons
- Register Call Forward assignments for easy use (max. of four buttons per telephone)
- Assign Message Waiting Keys
- Assign the background music (BGM) source to be played over the telephone's speaker

Note User Programming applies to LCD telephones only.

Programming Feature Buttons

Digital telephone users can use the programming mode for customizing their Toshiba telephones without the aid of an Administrator or Service Technician. The User Programming mode is accessed with a **Program** button assigned to a Flexible Button or through an access code. User Programming enables users to customize these features:

- **Flexible Buttons** – Toshiba telephones have 10, 14, or 20 Flexible Buttons to which the user can assign any one of approximately 50 different features (DND, ACB, Release, etc.). Once assigned to a button, the feature is accessed by pressing that button. Some of the types of feature buttons that users can set on their telephones include:

- **Call Forward** – Users can set the Call Forward (CF) destination and CF-No Answer timer for the CF buttons.
- **One Touch** – Users can set speed dial and custom feature access code sequences for One Touch buttons.
- **Background Music** – Users can select Quiet Tone or the music source (up to 15) that will play on their telephone's speaker when they activate the **BGM** button.

Note Directory number and external line buttons cannot be added or deleted, but their ring tones can be individually changed.

In addition to the Programming Mode, an advanced programming function enables your System Administrator to individually turn On/Off the telephone's beep tone, handset call waiting tone, and microphone background noise cancellation option. This mode enables LCD contrast adjustment and testing the IPT3014 LCD screen.

User Programming Mode

- To enter User Programming Mode, press the **Program** button
...or dial **#9876**. "USER PROG MODE" appears on your LCD. The Program LED is steady green.
- To exit User Program Mode, press **Program**
... or go off- and on-hook press **#9876**.

Note A IPT equipped with a headset adapter ignores the hookswitch. It can only exit User Programming by timing out (approximately 15 seconds).

Flexible Button Codes

Flexible buttons are the unassigned buttons on your keystore that can be used to store features. The number of available Flexible Buttons depends on your telephone model and how the buttons are preassigned by the System Administrator. See [pages 3 and 10](#) for the Flexible Button locations.

The following steps enable you to program features onto Flexible Buttons for one-touch feature access.

Setting/Changing a Flexible Button's Function

1. Press **#9876** to enter User Programming Mode.
2. Press **Hold**.
3. Press the Flexible Button to set or change.
4. Enter the Flexible Button Code (see [Table 11](#)), plus any optional parameters.
5. Press the same Flexible Button (flashing) to save the setting. "DATA PROGRAMMED" appears on your LCD.

Table 11 Flexible Button Codes

Feature	Code
Account Code	660
Automatic Busy Redial - On	150
Automatic Callback	160
Background Music	530
Call Forward (CF) - Any Calls	
All Call	340
Busy	350
No Answer	360
Busy No Answer	370
CF - External (Outside) Calls	
All Call	380
Busy	390
No Answer	400
Busy No Answer	420
Call Park Orbit	170
Call Pickup	
Incoming - Group Pickup	430
Incoming - Directed Extension Pickup	440
Incoming - Directed Group Pickup	450
Incoming - Directed Extension Pickup	460
On hold - Local Retrieve	490
On hold - Remote Retrieve	500
On hold - Outside Line Retrieve	480
On hold - Directed Extension Retrieve	510
On hold and Incoming	520
Incoming - Any External Call	470

Feature	Code
Caller ID	580
Cancel	290
Do Not Disturb (On/Off)	180
Door Lock Cancel	540
DSS Button	610
Flash - Short	200
Flash - Long	210
Microphone Cut-off	840
One Touch Button	570
Paging	
Page All Groups	220
Page Individual Groups	230
Emerg. Page - Individ. Group	250
Emerg. Page - All Groups	240
Answer Page - All Groups	590
Phantom Extension Message Waiting	560
Privacy	320
Privacy Release	330
Night Transfer	600
Record to VM	630
Pause/Resume recording	640
Release Button	270
Release/Answer	280
Split	860
Speed Dial	260
User Programming Mode	650

One Touch Buttons

One Touch buttons can be used for storing frequently used features or dialed numbers, such as Speed Dial numbers (use Speed Dial Codes to store additional numbers). One-touch buttons can be preassigned to your telephone – your System Administrator can help you identify them.

If you do not have a One Touch button, but you have an available Flexible button, you can convert the Flexible button to a One Touch button. Perform the procedure called [“Setting/Changing a Flexible Button’s Function” on page 79](#) (in Step 4, enter the access code for One Touch button). Once you have created a One Touch button, you can change the function by using the following procedure.

Changing a One Touch Button

1. Press **#9876** to enter User Programming Mode.
2. Press the One Touch button to be set.
3. Enter the digits or special buttons for the function to be dialed. You can include the following in the dial string:
 - Dial pad digits **0~9**. To program special characters, see [Table 12](#).
 - A maximum of 32 characters.
 - Station and System Speed Dial index (or bin) numbers can be entered. The Speed Dial index number will automatically dial out on the extension or Line programmed on the One Touch button with the associated Speed Dial index number.
 - Function buttons, except One Touch or a **Program** button.
 - Handset hooking (on-hook/off-hook) cannot be recorded.
4. Press the One Touch button to save the entry.

We suggest writing the name or number of the One Touch button on your button strip.

Table 12 Special Characters

Entry	Meaning
* + Hold	Indicates “stop.” The One Touch button blinks rapidly and stops the delivery of the remaining digits in the string until it is pressed again. Multiple “stops” can be programmed into one string.
* (1~9)	Pause (1~9) seconds. If you need to pause longer than nine seconds, enter additional pause escape sequences. For example, to insert a 17-second pause, enter *9*8. The display of a pause in the Speed Dial Number shows a “P” without specifying the duration. In this example, you would see “PP.”
* *	*
* #	#

To Use a One Touch Button

➤ Press the One Touch button.

Setting/Changing a Personal Speed Dial Code

See “Storing a System/Station Speed Dial Number” on page 59.

Feature Codes

Feature Access Codes are entered as a sequence on your telephone to use a particular feature. For an example of Call Forward, see “[Call Forward Examples](#)” on page 37.

Table 13 Feature Access Codes

Feature	Feature Access Code Sequences ¹
Account Code (while on a call)	Cnf/Trn + #46 , dial account code digits
Attendant Console	Ext. button + 0
Automatic Busy Redial - On	Cnf/Trn + #441 , hang up
Automatic Busy Redial - Off	Ext. button + #442
Automatic Callback (while on a call)	4 when you hear busy tone
Automatic Callback Cancel	Ext. button + #431
Background Music	
Telephone Speaker On	Ext. button + #490 + music source no. (1~15) + #
Telephone Speaker Off	Ext. button + #491 + Spkr
External Speaker On	Ext. button + #492 + music source no. (1~15) + #
External Speaker Off	Ext. button + #493 + Spkr
Call Forward - See Table 2 on page 37.	
Call Park	
Activate (while on a call)	Cnf/Trn + #33 + Orbit Number (7000~7019) or your Ext. No.
Retrieve (while on a call)	Ext. button + #32 + Orbit Number (7000~7019) or your Ext. No.
Call Pickup	
Directed DN pickup of ringing or held calls.	Ext. button + #5#6 + Ext. No
Directed DN pickup of ringing, held or parked calls.	Ext. button + #5#29 + Ext. No. to be picked up
Incoming - Group Pickup	Ext. button + #5#34 + Group Number to be picked up
Incoming - Directed Extension Pickup	Ext. button + #5#5 + Primary Ext. No to be picked up
Incoming - Directed Group Pickup	Ext. button + #5#32 + Group Number to be picked up
Incoming - Directed Extension Pickup	Ext. button + #5#22 + Ext. Number

Table 13 Feature Access Codes *(continued)*

Feature	Feature Access Code Sequences ¹
All Call Page, Group Page and/or External Page Pickup of page	Ext. button + #5#36 + Page Zone No. (01~08)
	#5#5 + Ext. No. of another phone being paged.
Call Pickup for calls on Hold	
Local Pickup (call held on this phone)	Ext. button + #5#71
Remote Pickup (pickup another extension)	Ext. button + #5#72 + Primary Ext. No.
Pickup an Outside Line on Hold	Ext. button + #5#73 + Outside Line on hold (001~128)
Pickup a an on Hold	Ext. button + #5#74 + Ext. No. on hold
Conferencing - Three Way	#494
Dialing Special Characters from a Rotary Phone	
Simulate Dialing *	Dial 441
Simulate Dialing #	Dial 440
DISA Security Code - Change	Ext. button + #658 + old Security Code (1~15 digits) + # + new Security Code (1~15 digits) + #
Distinctive Ringing - See “Distinctive Ringing” on page 46.	
Do Not Disturb	
Local - On	Ext. button + #6091
Local - Off	Ext. button + #6092
Remote - On	Ext. button + #6191 + ext. no. of the phone where DND will be set + Pass Code Number + #
Remote - Off	Ext. button + #6192 + ext. no. of the phone where DND will be set + Pass Code Number + #
Door Lock Control	Ext. button + #12 + Door Lock Number
Door Phone Calling	Ext. button + #15 + Door Phone No. (01~24, depending on system size)
Emergency Call	Ext. button + #911
Flash - Short	Ext. button + #450
Flash - Long	Ext. button + #451
LCD Language (Change)	Ext. button + #495 + Language No.
LCR (Outgoing Call)	Ext. button + 9
Message Waiting (MW)	
Manually turn off MW LED	Ext. button + #409

User Programming

Feature Codes

Table 13 Feature Access Codes *(continued)*

Feature	Feature Access Code Sequences ¹
Retrieve a received MW	Ext. button + #408
Activate MW at another Station without Ringing	#63 + Ext. no. (where you want to light the MW LED)
Cancel MW at another Station without Ringing	#64 + Ext. no. (where you want to turn off the MW LED)
Messaging - Advisory	
Advisory Message - Activation	Ext. or Phantom Ext. button + #411 + Message No. (see table in “Advisory Messages” on page 28). Hang up.
Advisory Message - Cancellation	Ext. or Phantom Ext. button + #412 . Hang up.
Network Access Code (Private Network)	8 + Private Network No.
Night Ring Answer	Ext. button + #5#39
Off-hook Call Announce or Busy Override	Voice First: 2 ; Tone First: 1, 21, 12 , or 5 , depending on programming for your phone.
Override	
Busy, Do Not Disturb	After reaching a busy or DND station, press 2 .
Executive	After reaching a busy station, press 3
Paging	
Page All Groups	Ext. button + #30
Page Individual Groups	Ext. button + #31 + Page Zone No. (01~08)
Emergency Page - Individual Group	Ext. button + #38 + Group Number
Emergency Page - All Groups	Ext. button + #37
Answer for External Group Page	Ext. button + #5#36 + Page Zone No. (01~08)
Repeat Last Number Dialed	Ext. button + *0

Table 13 **Feature Access Codes** *(continued)*

Feature	Feature Access Code Sequences ¹
Speed Dial (Storing an SD number)	
Station ²	#66 + nnn + Phone No.³ + # nnn = 100~199 SD bin numbers
System ²	#66 + nnn + Phone No.³ + # nnn = 200~999 SD bin numbers
Speed Dial (Dialing a stored SD number)	
Station ²	Spdial⁴ + nnn nnn = 100~199 Station SD bin numbers
System ²	Spdial⁴ + nnn nnn = 200~999 System SD bin numbers
Start Application	#18
Travelling Class Override	
Enter Code	#471 , then dial number (enter LCR code if required)
Change Code	#69 + Index Number + old Code + # + new Code + #
User Programming Mode	#9876
Voice Mail (VM)	
Direct Transfer to Voice Mail	While on a call, press Cnf/Trn + #407 . Dial VM mailbox number (usually Ext. Number) + #.
Volume Control - Beep	With handset off-hook, press #6101 . Press Vol ▲ or ▼ .
Volume Control - Ringing	With handset on-hook, press #6102 . Press Vol ▲ or ▼ .

1. If you have "hot dialing," you do not need to press Ext. button as part of the sequence.
2. Stations must be assigned/enabled SD capabilities in system programming by an Administrator in Program 200-30 (System SD) and Program 200-35 (Station SD).
3. Refer to [Table 7 on page 60](#) to see how to enter * and # into a speed dial number.
4. If your telephone does not have a **Spdial** button, press the * button, then dial the three digit Speed Dial bin number (nnn).

LED Indicator Details

Each line and feature button has a LED next to it which indicates the status of the line or feature associated with the button. Line LEDs light red or green and flash at varying rates to indicate call status (see [Table 14](#)).

Table 14 LED Indicators

LED	Your Station (Green)	Other Station (Red)
	Interval Rates	
Extension In-Use (access outside line)	2 seconds On, 1/8 second Off — 1/8 second On/Off	steady
Incoming Call (while ringing)	1 second on at 10 pulses/ second — 1 second Off	one second On/Off
Hold (outside line) If using Pooled Line Grp , the hold indication is only at the station that places the call on hold.	4 pulses/second for 1/8 second On/Off	1/2 second On/Off
Hold – Consultation (during consultation/transfer to another station)	10 pulses/second	steady
Hold – Exclusive (outside line)	10 pulses/second	steady
Hold – Recall (when held call recalls your idle station)	1 second at 2 pulses/second, 1 second at 10 pulses/second	flashes
Hold – Exclusive Recall	1 second at 2 pulses/second, 1 second at 10 pulses/second	steady
Internal Call (while station ringing)	Your extension button flashes 10 pulses/second—1 second Off	[SDN] red flashing or green ringing
Busy Station Transfer (outside call transferred to your busy station from a designated station or AA) After disconnecting first call...	4 pulses/second, 1/8 second On/Off	3/4 second on, 1/8 second Off
	10 pulses/second	2 pulses/second
Conference	10 pulses/second	steady

This chapter provides an overview of the following two optional units and describes the features, buttons and associated LEDs. It describes the various models for the following two types of units.

- **Digital Add-on Module (DADM)** – adds 20 line/feature buttons to digital telephones. Up to two DADMs can be connected to a telephone.
- **Direct Station Selection (DSS) Console** – adds 60 line/feature buttons to a digital telephone. Available for system operators who do not have an attendant console.
- **IP Add-on Module (IADM)** – adds 20 line/feature buttons to the IPTs. Up to two IADMs can be connected to an IPT.

ADM

Digital add-on Modules (DADM) can be connected to 3000-, IPT, and 2000-series telephones to provide additional buttons. Certain models are not interchangeable.

The DADM3120 works with the DKT3000-series telephones and the IPT1020-SD. The DADM3020 works with 3000-series telephones only and the DKT2000-series telephone requires a 2000-series DADM.

The DADM3020 model, is shown below, right. The DADM2020 (not shown) looks similar and has the same functions.

The IP add-on Module (IADM) offers all the same features of the DADM3120. IADM2020 works with the IPT2000-series IP telephones.

Buttons and LEDs

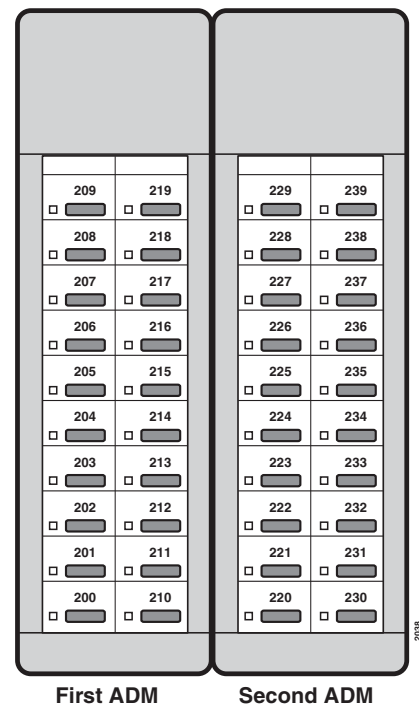
The DADM3120 and DADM3020 essentially look and operate the same way, each providing 20 feature buttons to their respective telephones. These flexible feature buttons can be assigned as CO line, Directory Number, DSS, One Touch Speed Dial or any other flexible feature.

Up to two DADMs can be attached to a telephone to provide 40 buttons to supplement the telephone's 10 or 20 buttons.

Each DSS button and **Line** button has an LED that provides a status of the outside line or station assigned to it. The DSS button acts like a speed dial button to a specific extension.

- A station or line shows steady red when in use by others; green when in use by the DADM.
- A DSS LED will flash red while making a call and turn intermittently green once connected.
- An outside Line LED is green when the outside line is in use by the DADM console user. It is red if it is in use by another telephone user.

Note Button numbers in the figure to the right are examples only.



DSS Console

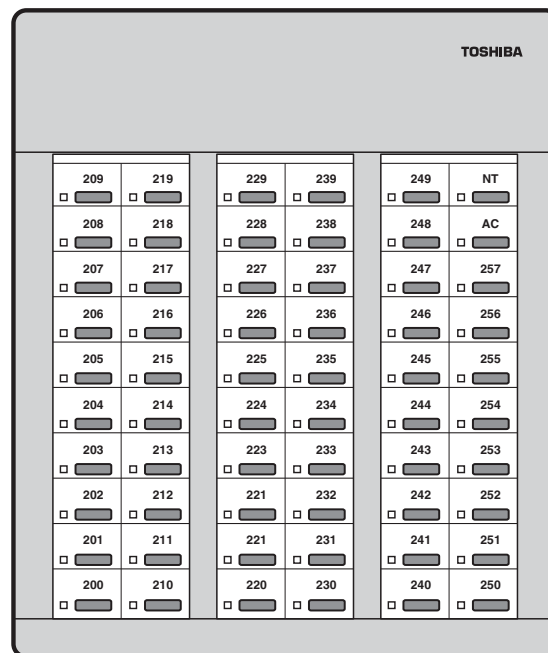
The Direct Station Selection (DSS) console operates alongside of a digital telephone to provide 60 additional buttons. The 3000-series telephone requires a 3000-series DSS; the 2000-series telephone requires a 2000-series DSS. A DDSS3060 example is shown right. The DDSS2060 (not shown) looks similar and has the same button/LED functions.

Note The IP telephones do not support a DSS console.

The 60 flexible feature buttons can be assigned as CO line, extension, DSS, One Touch Speed Dial or any other flexible feature.

The DDSS3060 console uses dual red and green LEDs to show call and feature status.

Note Button numbers in the above figure are examples only.



DSS Buttons

DSS buttons can appear on both the DADM and DSS Console. Each DSS button is associated with a particular station in your telephone system. DSS buttons can transfer an outside call to the associated station or make a direct call to the associated station.

The DSS LED lights steady red when the station associated with the DSS button is ringing, busy on a call, or when the associated station is idle, but all appearances of the station's extensions are busy or in-use by other stations. When the associated DSS button is in the Do Not Disturb mode, the LED blinks red at a slow rate.

DSS buttons cannot call station Phantom extension numbers, Distributed Hunt Group Directory Numbers, or ACD Groups. DSS buttons may be configured as One Touch Buttons that may be programmed to call these destinations.

The LED colors described in this section apply to the DADM3020 and DDSS3060. Described Flash conditions apply to all DSS console models and the DADM.

Calling a Station

- To call a station's extension from either a DSS console or a DADM, press the DSS associated with the station.

A station call with a DSS button can be made on-hook or off-hook, and with Voice First or Tone signaling. After pressing the button, treat the call like any other station call made from a digital telephone.

DSS LEDs indicate whether the associated station is idle or busy. The LED is steady red if the station is busy or ringing, and is not lit if idle. If all the station's PDN buttons are being used by other stations, the DSS LED of the station is lit steady red, but the station may be idle. If the station is in the Do Not Disturb mode, its DSS LED lights blinking red.

Transferring to an Idle Station

You can transfer internal or outside calls to an idle station from either a DSS console or a DADM.

➤ To transfer a call to an idle station

1. Press the DSS button corresponding to the station to be called.

The call is placed automatically on hold. The Line or extension LED flashes green at double the on-hold rate, and the DSS LED flashes green. You hear a single ring tone. (If using the Tone signaling mode, you hear successive ring tones.)

2. Announce the call.

With Tone signaling, you would have to wait for the called station to answer before announcing the call.

3. Hang up.

The call rings the called station when you hang up. While the called station is ringing, the DSS LED is steady red, and the Line LED flashes green at the on-hold rate or if on an extension button, it goes idle.

When the called station answers the call, the DSS LED stays steady red, and the Line LED becomes steady red.

4. If the station does not answer before a period set in system programming, the call recalls your station.

Call Transfer with Camp-on

You can transfer a call to a busy station from either a DSS console or an DADM. Use the DSS to transfer the call, even though the DSS LED associated with the station you are “transferring to” is red.

► To transfer call to a busy station

1. Press DSS corresponding to the busy station to be called.

You may hear a busy tone. The original caller is placed automatically on hold. The Line or extension LED flashes green at double the on-hold rate, and the DSS LED remains steady red.

2. Hang up.

The call rings the called station once with the camp-on tone. While the called station is receiving this tone, the Line LED flashes green (on-hold rate) or if you are on a extension button, it goes idle. The [DSS] LED remains steady red.

When the called station answers the transferred call, the Line LED becomes steady red. The [DSS] LED remains steady red.

Note If the busy station is in the Do Not Disturb mode, the call will not transfer, but will recall your telephone immediately.

If the call is not answered after a specified Recall time set in system programming, camp-on is cancelled and the transferred call rings back.

Call Answering (Outside Line)

If your DADM or DSS console is equipped with a **Line** button, you can answer outside line calls from the DADM or DSS console as you would from a digital telephone.

- To answer an incoming outside line call to a DADM or DSS Console, press the flashing **Line**.

Speed Dial

Your DADM or DSS console may be equipped with **SD** (Speed Dial) buttons that can be programmed to dial telephone numbers or to access features. **SD** buttons on either the DADM or DSS console function like **SD** buttons on digital telephones.

Paging

You can make an announcement page to a group of telephone speakers selected in system programming with **All Call Page** on the DSS console. **SD** (if programmed) on either the DSS console or the DADM can be used for page announcements. See [“All Call Page” on page 56](#).

Call Forward Override (DSS Override)

Either the DSS buttons on your DSS console or the associated telephone can be set in system programming to ring stations that are in the Call Forward mode, instead of being forwarded. Usually the console's telephone is the unit activated to perform this function. Among other applications, this feature can be used to notify a person who forgets to deactivate the Call Forward feature after returning to the office.

➤ To override call forward with the console's associated telephone

1. Press **Cnf/Trn** or extension button.
2. Dial the station number set for call forward.

Make the call as you would from any other station. This procedure assumes your station has a typical program setting.

➤ To override call forward with your DSS Console

- Press the station DSS button set for Call Forward.

Night Transfer Button

This button enables a pre-programmed station to place the system into Day, Day2 or Night Mode. See your System Administrator for information on the settings for Day, Day2 or Night Mode. Usually, these modes will transfer calls to a designated location or voice mailbox, depending on programming.

1. Press **Night Transfer**.
2. Press the desired Mode number:
 - Press **1** for Day Mode (LED remains off).
 - Press **2** for Day2 Mode (LED flashes red).
 - Press **3** for Night Mode (LED is solid red).

Centrex Application

A

Your system may be equipped with the Centrex Application, which enhances its feature capability when installed behind a Centrex or PBX system. Your telephone may have access to one or more of the enhanced Centrex features listed below:

Flexible Directory Numbering

A station's extension can be three or four digits. It is, therefore, possible to match a station's extension and Centrex line extension number. Dial the entire station number when indicated.

Note Some access code numbers may have been changed to avoid system numbering plan conflicts.

Centrex Feature Buttons

You can access some Centrex features by pressing a pre-programmed Flexible Button on your telephone, instead of dialing a Centrex access code. The Centrex access code, including the necessary flash and/or pause sequence, is activated when the button is pressed. See your Centrex or PBX operations manual for specific details.

Ringling Repeat

The distinctive ring patterns available in your Centrex system are automatically repeated with your digital telephone, enabling you to answer appropriately for either outside, inside or callback calls.

Delayed Ringing

Outside line or Centrex line(s) can be programmed for a 12-second and/or 24-second ring delay at stations to permit alternate answering conditions. Answer the line when your telephone is ringing.

Button Labels

B

All Flexible Buttons must be programmed for your telephone in system programming and vary for individual telephones. If a button does not appear on your display or telephone keystrip label, see your System Administrator for button assignments.

The button labels in [Table 15](#) are for the Programmable Buttons on your telephone. Programmable buttons are the unmarked buttons on your keystrip.

Table 15 Feature Button Definitions

Button	Definitions
Account Code	Account Code – Press to enter a Voluntary Account Code anytime during a Central Office (outside) line call without interrupting the conversation.
All Call Page	All Call Voice Page – Press to page all of the telephones in the All Call Page group.
Auto Busy Redial	Automatic Busy Redial – Press to set up Automatic Busy Redial after receiving a busy tone on a dialed outside line call (not available when calling on Tie or Direct Inward Dialing (DID) outside lines).
Auto Callback	Automatic Callback – Press to recall a busy station or station in the Do Not Disturb (Do Not Disturb) mode as soon as that station becomes idle or deactivates Do Not Disturb. Also used for outside line queuing when all lines are busy.
Call Frwd All Calls	Call Forward-All Calls – Press to forward all calls to another station or voice mail device.
Call Frwd Busy	Call Forward-Busy – Press to forward calls immediately to another station or voice mail device when your station is busy or in the Do Not Disturb mode.
Call Frwd Busy NAns	Call Forward-Busy/No Answer – Press to forward calls immediately to another station or voice mail device when your station is busy or in Do Not Disturb mode. Also forwards calls when your station is not answered after 8~60 seconds (set at your station).

Button Labels

Delayed Ringing

Table 15 **Feature Button Definitions** *(continued)*

Button	Definitions
Call Frwd No Answer	Call Forward-No Answer – Press to forward calls to another station or voice mail device when your station is not answered after 8~60 seconds (set at your station).
Call Frwd External	Call Forward-External – Press to forward Private or DID line calls to an external or internal telephone number.
Caller ID	Caller ID – Press to view the Call History list (may include name/number, date, status).
Directed Pickup	Call Pickup – Press to initiate a ringing Directed Call Pickup of outside line, extension, and page calls.
Do Not Disturb	Do Not Disturb – Press to lock your station in or out of the Do not Disturb mode.
DSS	Direct Station Selection(s) – Press to ring a preselected station. The LED associated with each DSS button provides the status (idle/busy) of the station assigned to the button.
Flash	Flash – Press to perform the following functions: Disconnect and recall dial tone on a outside line; access Centrex or PBX features; enter a pause or flash signal when programming speed dial numbers.
Group Pickup	Group Pickup – Press to pick up a call that is ringing a station that belongs to a Pickup Group that your station is a member of.
Line	Line – Press to answer or access an outside line.
Microphn Cut-off	Microphone Cutoff – Press to turn the microphone off/on while idle, providing privacy when you receive handsfree internal calls. Also functional when your station receives calls – The Mic button controls the microphone when you originate calls.
Msg Wait	Additional Messages Waiting
Night Transfer	Press to control the system's outside line ringing pattern for after-hours incoming calls.
Park in Orbit	Park – Press to park internal or outside calls in an orbit. Call retrieval can be made locally from the same parking telephone or remotely from a different telephone.
Pooled Line Grp	Pooled Line – Press to access an available outside line from a group of lines appearing under one button.
Privacy on Line	Privacy – Press to block Privacy Override on common outside line buttons. This button does not block Busy Override or Executive Override.

Table 15 Feature Button Definitions *(continued)*

Button	Definitions
Privacy Release	Privacy Release – Press to release privacy on common outside line buttons, enabling other station users to enter your conversations on those buttons. Privacy release does not apply to common extension buttons which are always private.
Program	Program – Press to enter User Programming mode, which enables you to re-define Flexible Buttons to perform other functions, including programming One Touch and Flexible Buttons, register Call Forward assignments, assign Message Waiting Keys and assign BGM sources played over the telephone speaker.
PS/RES	Pause/Resume – Press to pause or resume recording a conversation to a voice mailbox or when playing back the recording.
Record	Record to Voice Mail – Press to record current conversation to voice mailbox.
Release and Ans	Release and Answer – Press to disconnect or complete the transfer the current outside or extension call and automatically answer the new incoming outside or extension call.
Release Call	Release – Press to disconnect or complete the transfer of the current outside or extension call and to place your station in the idle condition.
SD or Customized Button	Speed Dial – Press to Speed Dial a telephone number or feature access codes. SD buttons can be used as either System Speed Dial numbers or Station Speed Dial numbers.
Spd Dial Lng Pause	Pause (Long) – Press to insert a 10-second pause when programming Speed Dial numbers.
Spd Dial Pause	Pause – Press to set either a one-half or two-second pause when programming Speed Dial numbers. (The pause time is set in system programming).
Start	Start – Press to make an outgoing call using an ISDN trunk.
Sub	Sub address – Press to enter a sub address on an ISDN trunk outgoing call.
Tel Set Music	Background Music – Press to turn Background Music on or off over your station speaker.
Tone Dial Select	Tone – Press to change the outgoing dialing of the outside line in use from dial pulse to tone signaling.
Unlock Door	Door Unlock – Press to unlock a door lock mechanism.

Button Labels

Delayed Ringing

DKT3000 Settings

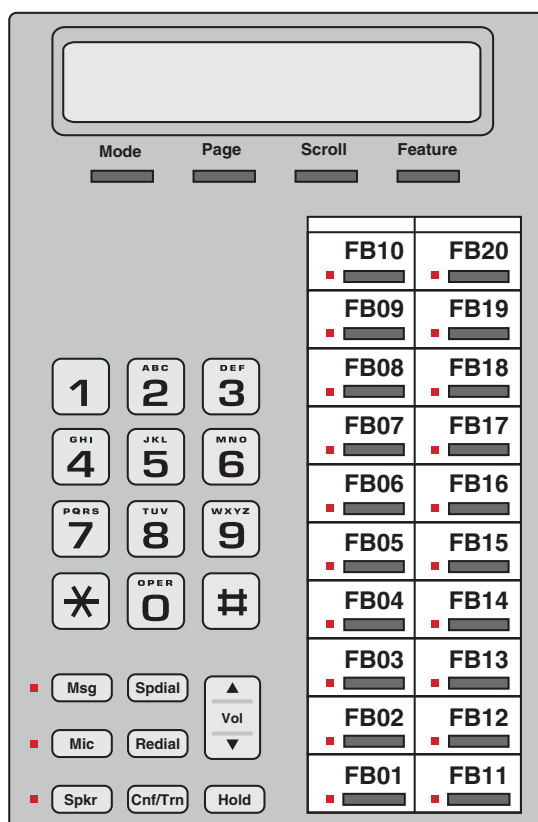
C

FB Buttons

When you press **3+6+9+Hold** (simultaneously) to enter telephone programming mode, you may need to press Feature Buttons (**FB**). The following illustrations show you the location of these **FB** buttons on 20, 10, and 14 button telephones.

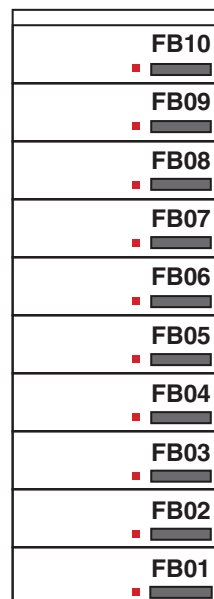
FB buttons for 20-button phones

IPT1020-SD, DKT3020-S, DKT3020-SD



FB buttons for 10-button phones

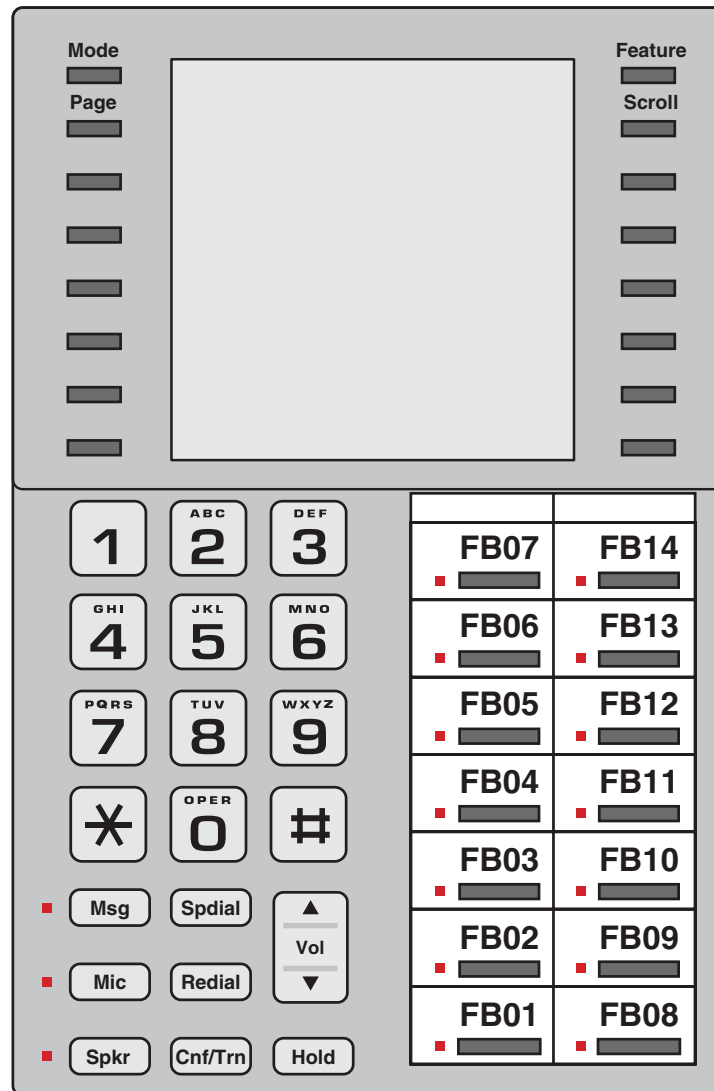
DKT3010-S, DKT3010-SD



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FB buttons for 14-button phones

DKT3014-SDL



5442

Telephone Programming Mode

The 3000-series telephones enable you to set a number of features directly from the phone, including: Call Waiting Tone (On/Off), Flex Key, Msg Key, LCD contrast, Speakerphone/Microphone Room Noise Sensitivity (On/Off), and Country settings. “Telephone Programming Mode A” programs settings on a ROM chip inside the telephone.

Note Some of the procedures use Feature Buttons (FB1, FB2, etc.). When your telephone is in Programming Mode, the flexible buttons are numbered as Feature Buttons, as shown at the beginning of this appendix .

- **To place your telephone in Programming Mode**
 - Press **3+6+9+Hold** simultaneously. The LCD displays “DKT PROGRAM MODE” and “SELECT=”. Your phone will not ring if it receives a call while in Programming Mode.
- **To exit from Programming Mode**
 - Go Off- and On-hook or wait for 30 seconds for Programming Mode to automatically time out.

Telephone Program Option Reset

This function resets all Programming Mode option settings to their default setting.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **Vol ▲ + Msg (Msg LED On means reset is set to activate)**
3. Press **Hold** to activate reset.
4. Go off-hook, then on-hook to exit the program mode.

Dial Pad and Button Beeps

Digital telephones can emit a “beep” sound whenever a dial pad or feature button is pressed. The “beeps” are On by default. Follow these steps to turn the “beeps” On or Off on 3000-series DKTs.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0**.
3. Press Feature Button 1 (FB1) to toggle On/Off.
FB1, LED On: buttons beep.
FB1, LED Off: buttons do not beep.
4. Press **Hold** to set the option.
5. You must also go off-hook, then on-hook to exit the program mode.

Speakerphone/Microphone Sensitivity Adjustment

When you are using the speakerphone, high ambient noise levels may cause the party you are talking with to be cut off frequently. If this happens, follow these steps to lower the sensitivity of the microphone on a 3000-series telephone. The default is normal sensitivity.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0**.
3. Press Feature Button 3 (FB3) to toggle On/Off.
FB3, LED On: Lower sensitivity
FB3, LED Off: Normal sensitivity
4. Press **Hold** to set the option.
5. Go off-hook, then on-hook to exit the program mode.

Call Waiting and Camp-on Ring Tone Over Handset/Headset Option

Call Waiting and Camp-on tones are sent to a busy telephone's speaker to indicate that a call is waiting. Call Waiting and Camp-on Tones can be sent, as an option, to the telephone handset or headset, in addition to the speaker. Follow these steps to turn handset/headset Call Waiting and Camp-on tone On/Off for a 3000-series telephone. The default is Off.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0**.
3. Press Feature Button 4 (FB4) to toggle On/Off.
FB4, LED On: Call Waiting tone
FB4, LED On: No Call Waiting tone
4. Press **Hold** to set the option.
5. Go off-hook, then on-hook to exit the program mode.

Reset and Adjust the LCD Contrast

► To adjust LCD Contrast for the LCD Telephones

1. Press **3+6+9+Hold** (simultaneously).
2. Press and hold down the **Mic** button, and press and release **Vol ▲** or **Vol ▼** repeatedly.

Each time you press **Vol ▲** or **Vol ▼**, the contrast increases or decreases. There are eight steps in either direction. To return to the middle setting, repeat "Step 1" above.

3. Press **Hold** to reset the LCD contrast.
4. Go off-hook, then on-hook to exit the program mode.

► To reset LCD Contrast for the DKT3014-SDL

1. Press **3+6+9+Hold** (simultaneously).
2. Press **Mode**.
3. Press **Msg** so that the **Msg** LED is On.

DKT3000 Settings

DKT2000 Mode On/Off

4. Press **Hold**. This sets the LCD lightness/darkness contrast on the middle setting.
5. Go off-hook, then on-hook to exit the program mode.

► Test the Display on Large LCD Telephones (DKT3014-SDL only)

1. Press **3+6+9+Hold** (simultaneously).
2. Press **Page**.
3. Press **1**. LCD screen is blank.
4. Press **2**. Each segment shows three vertical lines, in all eight rows.
5. Press **3**. Each segment contains five short horizontal lines, in all eight rows.
6. Press **4**. Each segment contains a pattern of small dots, in all eight rows.
7. Press **5**. All of the available characters, including numbers, display.
8. Go off-hook, then on-hook to exit the program mode.

DKT2000 Mode On/Off

If you have a cordless telephone (DKT2204-CT or DKT2304-CT) that is connected to a 3000-series telephone, you must place your DKT into 2000-mode before connecting the cordless telephone; otherwise, the 3000-series telephone will not work.

In 2000-mode:

- Only 16 characters by two lines display on the LCD.
- LCD Feature button does not work
- Spdial button does not work

Turn DKT2000 Mode On/Off

Important! *You must change the mode on DKT3000 telephone before connecting a DKT2204-CT or DKT2304-CT to the DKT3000.*

1. On the DKT3000 telephone, press **3+6+9+Hold** (simultaneously).
2. Press **#**.
3. Press **FB7** (or **FB13** on the DKT3014). LED On = 2000 telephone. LED Off = 3000 telephone.

4. Press **Hold**.
5. Lift the handset to exit programming mode. Wait a few seconds for the telephone to reset itself.
6. Connect Cordless Telephone to DKT3000 Telephone.

Changing the Functions of the Flex and Msg Buttons (DKT3001 only)

You can change the functions of the Flex and Msg buttons on your DKT3001 telephone to be different from the defaults.

Redial/Feature Button Activation/Deactivation

Your **Flex** button has been set to act as a **Redial** button by default. However, you can reprogram the **Flex** button to work as Flexible Button, as it set in system programming. These steps enable you to change how the button functions.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0 7**.
3. Press **Msg** to toggle On/Off

Msg LED On: **Flex** button works as Feature Button (FB3)

Msg LED Off: **Flex** button works as a **Redial** button.

4. Press **Hold** to set the option.
5. Go off-hook, then on-hook to exit the program mode.

Notes

- If you program the Flex button to work as Flexible Button 3, you can press * to redial.
- If the Flex button is changed to function as FB3, FB3 must be assigned to a feature by your system administrator in System Programming.

Msg/Feature Button Activation/Deactivation

Your **Msg** button has been set by default to work as a **Msg** button; however, you can reprogram it to work as Feature Button.

1. Press **3+6+9+Hold** (simultaneously).

2. Press **0 8**.

3. Press **Msg** to toggle On/Off.

Msg LED On: **Msg** operates as Feature Button

Msg LED Off: Works as a **Msg** button.

4. Press **Hold** to set the option.

5. Go off-hook, then on-hook to exit the program mode.

Note If the Msg button is changed to function as FB2, FB2 must be assigned to a feature by your system administrator in System Programming.

Headset Transmitter Level Adjustment

► To set the level of the Headset Transmitter for DKT3000-series telephones
Important! *Unplug headset from modular jack of BHEU1A, when making the setting from the table below.*

1. Press **3+6+9+Hold** (simultaneously).

2. Press **#**.

3. Press **FB1**, **FB2**, **FB3** (see table below), and check these LEDs.

4. Press **Hold**. In Off-hook, it returns to normal mode.

Table 16 Volume Level Transmitted from Headset Microphone

LEDS			BHEU SW2	
FB1	FB2	FB3	NORMAL (default)	LOW
OFF	OFF	OFF	+12 dB	-11 dB
ON	OFF	OFF	+8 dB	-15 dB
OFF	ON	OFF	+4 dB	-19 dB
ON	ON	OFF	0 dB	-23 dB (default)
OFF	OFF	ON	-4 dB	-27 dB
ON	OFF	ON	-8 dB	-31 dB
OFF	ON	ON	-12 dB	-35 dB
ON	ON	ON	-16 dB	-39 dB
Note ON means LED ON			OFF means LED OFF	

IP Telephone Settings

D

This chapter explains how to enter data for your IP telephone if it was not previously entered by the telephone installer or if you need to change this information.

Important! *This chapter does not apply to the Strata CTX28.*

You may also need to ask your Telephone System Administrator for the information required for the following steps (IP address, subnet mask number, router address, Station ID, CTX Strata Net node number, IP address for the BIPU-M1A, etc.).

Notes

You may want to enter a period or backspace when performing the following steps. While in telephone programming mode (Press **3+6+9+Hold** (simultaneously) to enter programming mode), you can use these buttons for the following functions:

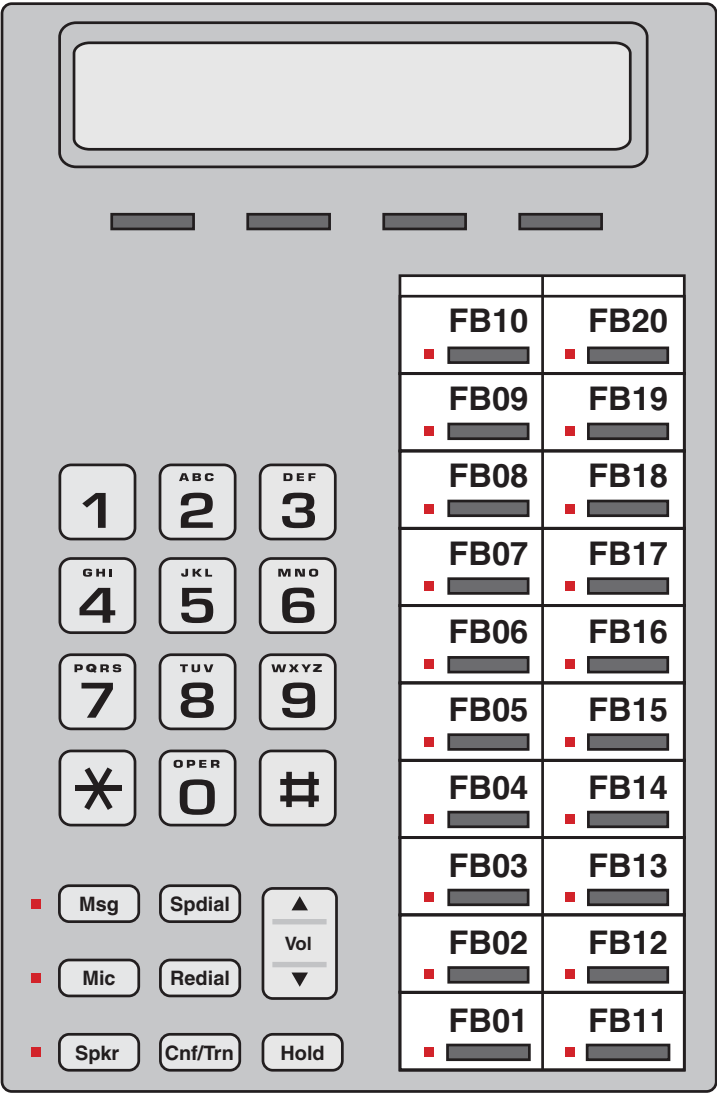
- Press ***** to enter a period.
- Press **Vol ▼** to backspace.
- Press **Spkr** to cancel entry and start over.

FB Buttons

When you press **3+6+9+Hold** (simultaneously) to enter telephone programming mode, you may need to press Feature Buttons (**FB**). The following illustrations show you the location of these **FB** buttons on 20, 10, and 14 button telephones.

FB buttons for 20-button phones

IPT1020-SD and IPT2020-SD



FB buttons for 10-button phones

IPT2010

FB10
FB09
FB08
FB07
FB06
FB05
FB04
FB03
FB02
FB01

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Important!

- *The IPT2010-SD telephone cannot be used to program the system.*
- *On the IPT2010-SD, use SK3 (Scroll) to switch between FB1~FB10 and FB11~FB20*

Initializing the IP Telephone

CAUTION! If you initialize the IP telephone, all settings return to default.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **Vol ▲** then press **Hold**.

Note Steps 3~5 are optional.

3. Press **FB01** to initialize the telephone's function settings (LED On = initialize, LED Off = don't initialize). See [“IP Telephone Function Settings” on page 112](#) for details.
4. Press **FB02** to initialize LCD contrast setting (LED On = initialize, LED OFF = don't initialize).
5. Press **FB03** to initialize the telephone's IP network connection settings (LED On = initialize, LED Off = don't initialize). See [“IPT-to-IP Network Connection Instructions”](#) below for details.
6. Press **Hold** again to complete the initialization process.
7. Go off-hook and hang up.

IPT-to-IP Network Connection Instructions

1. Press **3+6+9+Hold** (simultaneously).
 2. Press **2**, then press **Hold** to select the Network Setting Mode.
 3. Press **FB1** to see if the DHCP server is in use or not. Press one of the following (normally, use **1**: manual setting):
 - 1**: manual setting, then press **Hold**.
 - 2**: auto setting by DHCP server, then press **Hold**.
 4. Press **FB2**. Enter the IP address for this IPT and press **Hold**. To enter the period in an IP address, press the ***** button on your dialpad (e.g., if the IP address is “192.168.1.241,” press **192*168*1*241**).
 5. Press **FB3**. Enter the subnet mask number and press **Hold**. (e.g., if the subnet mask address is “255.255.255.0,” press **255*255*255*0**).
 6. If the IPT is connected to a router or other gateway device, press **FB4**. Enter the router address, then press **Hold**. Only used if Step 3, above, is set for manual setting.
 7. Press **FB5**. Enter a Station ID for the IPT and press **Hold**. This is usually your telephone’s primary number (PDN).
 8. Press **FB6** to enter the CTX Strata Net node number of the CTX node that contains the BIPU-M1A to which this IPT interfaces, then press **Hold**. This FB setting is for CTX networked systems only.
 9. Press **FB11** for BIPU IP address mode. Press one of the following:
 - 1**: manual setting, then press **Hold**. Press **FB12** and enter the BIPU IP address, then press **Hold**. (e.g., if the BIPU IP address is “192.168.1.241,” enter it in this format **192*168*1*241**).
 - 2**: auto setting by broadcast, then press **Hold**.
 - 3**: auto setting by multicast (IPT doesn’t support multicast setting in this first release), then press **Hold**.
 10. Press **Hold** again to set all the above data.
 11. Go off-hook and hang up. The IPT will search for the BIPU-M1A, initialize and then set the IP address (from 20 sec. to 60 sec.). Time, Date and PDN displays on LCD when the information is set.
- Note** See “[IP Telephone Start Up Sequence](#)” below for an explanation of the LCDs that you will see during this procedure.

IP Telephone Start Up Sequence

After the IP telephone network setting has been programmed, the following displays occur after the IP telephone is hung-up:

Action	LCD Indication	Remarks
1. IPT initializes.	INITIALIZING PLEASE WAIT...	
2. IPT searches for IP address.	IPaddress setting...	Possible errors: - IP address is not set. - No DHCP server, etc. If error occurs, IP address setting is carried out continuously.
3. IPT searches for BIPU.	Searching BIPU...	Retries every 10 seconds. Possible errors: - BIPU is not found "time out." - BIPU is not found (Station ID automatic setting). - BIPU is not found (StationID manual setting) - Multicast address is not registered (BIPU IP address setting mode is automatic setting by multicast) - BIPU IP address is not registered (BIPU IP address setting mode is manual setting).

IP Telephone Settings

IP Telephone Function Settings

Action	LCD Indication	Remarks
4. Registering to BIPU	Registering IPT	When registering fails, IPT retries by starting at Step 2 again. Error message: "Exxx" is error number. Registering IPT Can't register IPT:EXXX
5. Registering completion - normal action.	LCD data is indicated from the system. Example: NO. 205 FEB 28 THURSDAY 01:09	

IP Telephone Function Settings

These steps enable you to turn On/Off button beeps, room noise cancellation, handset Busy Override, and headset volume control. You can also adjust the setting for carbon headsets vs. non-carbon headsets.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0** then **Hold**.
3. Press the Feature Buttons to turn the LEDs On/Off (see [Table 17](#)).

Table 17 IP Telephone Function Settings

FB	LED ON	LED OFF
FB1	Buttons beep.	Buttons do not beep.
FB3	Speakerphone/Microphone sensitivity is lower.	Speakerphone/Microphone sensitivity is normal.
FB4	Enable handset Busy Override (BOV) tone.	Disable handset BOV.
FB11	Turn LED On if carbon headset is attached.	Turn LED Off if carbon headset is not attached.

4. Press **Hold** to set the above data.
5. Go off-hook and hang up.

Setting the IP Telephone Headset Transmit Volume

1. Press **3+6+9+Hold** (simultaneously).
2. Press **#**.
3. Press the Feature Buttons to turn the LEDs On/Off for the desired volume transmission level (see [Table 18](#)).

Table 18 Volume Level Transmitted from Headset Microphone

LEDS			Transmit Level
FB3	FB2	FB1	
ON	ON	ON	Level 7 (min.)
ON	ON	OFF	Level 6
ON	OFF	ON	Level 5
ON	OFF	OFF	Level 4
OFF	ON	ON	Level 3 (initial value)
OFF	ON	OFF	Level 2
OFF	OFF	ON	Level 1
OFF	OFF	OFF	Level 0 (max.)

4. Press FB4 for handset voice output in speakerphone mode (LED On = with, LED Off = without).
5. Press **Hold** to set the above data.
6. Go off-hook and hang up.

Viewing IP Telephone Terminal Information

1. Press **3+6+9+Hold** (simultaneously).
2. Press **1**, then press **Hold**.
3. Press **FB1** to view IPT firmware version (application and boot versions, read only).
4. Press **FB2** to view IPT MAC address (read only).
5. Go off-hook and hang up.

IP Telephone Settings

Viewing IP Telephone Terminal Information

Administrator Functions

E

This appendix contains some of the functions that can be performed using Administrator Mode.

Important! *These functions require Strata CTX release 2.22 or higher software.*

You can access the Administrator mode using either the DKT2000 or DKT3000 series telephones. Toshiba recommends using the DKT3020-SD.

To access the Admin mode, the telephone must be enabled for this function in system programming by the telephone system administrator.

Functions

Using the soft keys on your telephone, you can program the following functions in Administrator mode:

- Phone Name – enter the Extension (PDN) name for any telephone in the Strata CTX
- Door Name – enter door phone name
- System SD/Name¹ – enables you to program system speed dial names
- Station SD/Name¹ – enables you to program station speed dial names for any station in the system
- CO Line Name – program CO line names
- DNIS Name – program DNIS names

¹ The Admin telephone mode allows speed dial names to be programmed but the actual speed dial numbers are programmed using the speed dial programming procedures in this guide.

General Operation

➤ Use these buttons to navigate the different functions

Navigation Button	Function
Mode	Previous Menu; exit Admin mode
Scroll	Next Item/screen (Forward) or move cursor to Right column
Page	Previous Item/screen (Back) or move cursor to Left column
Hold	Enter

Notes

- You can use Scroll/Page button to select Menu and Hold key to enter the Menu.
- You can enter digits or alphanumeric Name from Dial Pad.
- You can use the Mode button to back a screen
...or
you can use the Mode button while entering a Name or Number to go back to a Prompt Screen.

You can enter alphanumeric characters from the dial pad (shown in [Table 19](#)).

Note When using the Alphanumeric dial pad, use Page to Back Space and delete a character; use Scroll to enter a space in a name.

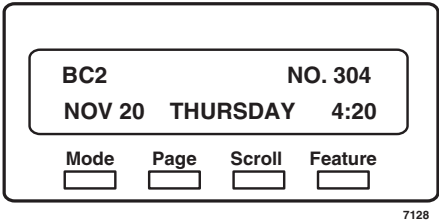
Table 19 Dial Pad Alphanumeric Characters

Dial Pad Buttons	Number of times to press the dial pad button				
	1	2	3	4	5
1	-	.	:	,	1
2	A	B	C	'	2
3	D	E	F	!	3
4	G	H	I	&	4
5	J	K	L	*	5
6	M	N	O	#	6
7	P	Q	R	S	7
8	T	U	V	?	8
9	W	X	Y	Z	9
0	(	)	&	/	0

Administrator Mode

➤ To enter Administrator Mode

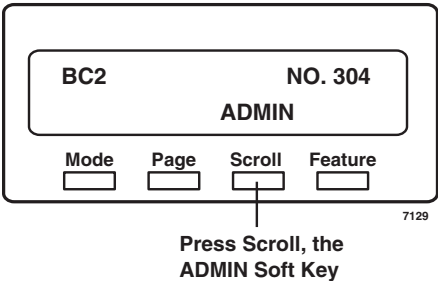
1. Press the **Mode** button.



2. Press **Scroll**. (**Scroll** is the “ADMIN” Soft Key. The “Password” prompt appears.

...or to return to the first screen, press **Mode**.

3. Enter the password + **Hold**.
Default password = 0000



➤ To view the following Administrator Functions or LCD screens

Refer to “General Operation” on page 116 to navigate between functions.

PHONE NAME	Press Hold. Enter the DN ID number. This is the extension number (PDN) of the telephone. Enter the Phone Name that corresponds with that DN ID. Press Hold, pressing Hold will register the name and let you make the next Phone name entry. Press Mode to cancel or go back. Note: Once the name is registered you cannot cancel the entry. Press Page to move to the previous display or Scroll to move to the next display.	DN ID

Administrator Functions

General Operation

DOOR NAME	Press Hold. Enter the Door Phone number (01~24). Enter the Door name that corresponds with that Door Number. Press Hold, pressing Hold will register the name and let you make the next Phone name entry. Press Mode to cancel or go back. Note: Once the name is registered you cannot cancel the entry. Press Page to move to the previous display or Scroll to move to the next display.	DOOR PHONE NO. 01
SYSTEM SD/NAME Note To enter a speed dial number, refer to Speed Dial in the Advanced section of this guide.	Press Hold. Enter the Speed Dial Index (000~799). Press Mode to return to the previous screen. Enter the alphanumeric name. Press Hold to register alphanumeric name corresponding to the entered speed dial index.	IDX 000 IDX 000 04258536 TOSHIBA BC2
STATION SD/ NAME Note To enter a speed dial number, refer to Speed Dial in the Advanced section of this guide.	Press Hold. Enter the DN ID. This is the extension number (PDN) of the telephone. Pressing Mode lets you return to the previous screen and Hold registers the entry. Enter the speed dial index (00~99). Enter the alphanumeric name. Press Hold to register alphanumeric name corresponding to the entered speed dial index.	DN ID 304 DN 304 IDX 00 TOSHIBA BC2 304
CO LINE NAME	Press Hold. Enter the CO Line number (1~264). Pressing Mode lets you return to the previous screen and Hold registers the entry. Enter the alphanumeric name that corresponds to the CO Line Number.	CO LINE 304

DNIS NAME	Press Hold. Enter the ILG number (1~128). Pressing Mode lets you return to the previous screen and Hold registers the entry. Enter the DID number Enter the alphanumeric name that corresponds to the DID Number Press Hold to register the entry.	ILG 003
		ILG 003 DID

Administrator Functions

General Operation

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