

APPLICANT: MOTOROLA, INC.

FCC ID: IHDT56DP1

INSTRUCTION MANUAL

A preliminary draft copy of the Users Manual follows:



One Sprint. Many Solutions.™

User's Guide

Vision-enabled PCS Phone
Model [xx]

**Manufacturer's
Logo**

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Welcome to Sprint

Sprint built the largest all-digital, all-PCS nationwide network with advanced multimedia services, reaching more than 230 million people for clarity you can see and hear. We built our network to give you what we believe you really want from a wireless phone, clear sound, private conversations, and time-saving features.

But with Sprint, you can do something even more far-reaching :simplify your life. Our advanced technology is designed to grow with your communications needs so that one day you'll be able to rely entirely on your PCS Phone to stay connected.

This guide will familiarize you with our technology and your new Vision-enabled PCS Phone through simple, easy-to-follow instructions. If you have already reviewed the Start Here Guide, which was packaged with your new phone, then you're ready to explore the advanced features outlined in this guide.

If you have not read your Start Here Guide, go to Section One - Getting Started. This section provides all the information you need to quickly activate your phone, set up your voicemail, and much more. It also contains information on how to contact Sprint should you have questions about service, wish to check your account balance, or want to purchase additional products or services.

Thank you for choosing Sprint.

Introduction

This User's Guide introduces you to PCS Service and all the features of your new phone. It's divided into four sections:

- ▶ **Section 1:** Getting Started
- ▶ **Section 2:** Understanding Your Phone
- ▶ **Section 3:** Using PCS Service Features
- ▶ **Section 4:** Safety Guidelines and Warranty Information

Throughout the guide, you'll find tips that highlight special shortcuts and timely reminders to help you make the most of your new phone and service. The Table of Contents and Index will help you locate specific information quickly.

You'll get the most out of your phone if you read each section. However, if you'd like to get right to a specific feature, simply turn to that page. Follow the instructions in that section and you'll be ready to use your phone in no time.

Tip: You can print this guide to keep on hand or view it online. If you're viewing it online, simply click on a topic in the Table of Contents or Index on any page reference within a section. The PDF will automatically display the appropriate page.

Getting Started

Setting Up Service

In This Section

▶ **Getting Started With PCS Service**

▶ **Setting Up Your Voicemail**

▶ **Getting Help**

This section walks you through setting up service for your PCS Phone, unlocking your phone, setting up your voicemail, and contacting Sprint for assistance with your PCS Service.

Getting Started With PCS Service

Determine if Your Phone is Already Activated

If you received your phone in the mail or purchased it at a Sprint Store, it probably has been activated. All you need to do is unlock your phone.

If your phone is not activated, please refer to the Start Here Guide included with your phone.

Unlocking Your Phone

Follow these steps to unlock your phone:

1. Press and hold **END** to turn the phone on.
2. When “Password” appears on the display enter your 4-digit password to unlock your phone.

Tip: If you can't recall your lock code, try using the last four digits of either your Social Security number or PCS Phone Number or try 0000. If none of these work, call PCS Customer Service Solutions™ at 1-888-211-4PCS (4727).

Activating Your Phone

To activate your phone, follow the directions in the Start Here Guide included with your phone. You can also visit <http://activate.sprintpcs.com> and activate your phone online.

Setting Up Your Voicemail

All unanswered calls to your PCS Phone are automatically transferred to voicemail, even if your phone is in use or turned off. Therefore, you will want to set up your voicemail and personal greeting as soon as your PCS Phone is activated.

To set up voicemail:

1. Press **☰** (**Menu**) to access the main menu.
2. Select **Voice Mail**, press **OK** (**OK**) or **☑** (**Select**).
3. Follow the system prompts to create your pass code, record your greeting, record your name announcement, and choose whether to activate One-Touch Message Access (a feature that lets you access messages simply by pressing and holding **TALK**, bypassing the need for you to enter your pass code).

Note: The voicemail setup process may vary in certain Affiliate areas.

For more information about using your voicemail, see “Using Voicemail” on page 104.

Getting Help

Visiting Our Web Site

Stop by www.sprintpcs.com and log on to get up-to-date information on PCS Services, options and more.

You can also:

- ▶ Review coverage maps
- ▶ Learn how to use voicemail
- ▶ Access your account information
- ▶ Purchase accessories
- ▶ Add additional options to your service plan
- ▶ Check out frequently asked questions
- ▶ And more

Reaching PCS Customer Service Solutions™

You can reach PCS Customer Service Solutions by:

- ▶ Dialing * 2 ABC TALK on your PCS Phone
- ▶ Logging on to your account at www.sprintpcs.com
- ▶ Calling us toll-free at 1-888-211-4727 (Consumer customers), 1-877-CLEARPY (253-2779) (Clear Pay customers), or 1-888-788-4727 (Business customers)
- ▶ Writing to us at PCS Customer Solutions, P.O. Box 8077, London, KY 40742

Receiving Automated Usage and Invoicing Information

For your convenience, your phone gives you access to invoicing information on your PCS Account. This information includes balance due, payment received, invoicing cycle, and the number of minutes used since your last invoicing cycle. (Normal airtime usage will apply.)

To access this information:

- Press * 4 GHI TALK .

Note: This service may not be available in all Affiliate markets.

PCS Directory Assistance

PCS Directory Assistance provides a variety of services, including residential, business, and government listings; assistance with local or long-distance calls; movie listings; hotel, restaurant, shopping, and major local event information. There is a per-call charge and you will be billed for airtime.

- Press * 4 GHI 1 2 3 TALK .

PCS Operator Services

PCS Operator Services can provide assistance in placing collect calls or calls billed to a local telephone calling card or third party.

- Press * 0 TALK .

For more information or to see the latest in products and services, visit us online at www.sprintpcs.com.

Note: PCS Operator Services may not be available in all Affiliate markets.

Understanding Your PCS Phone

Your PCS Phone: The Basics

In This Section

- ▶ Front View of Phone
 - ▶ Viewing the Display Screen
 - ▶ Features of Your PCS Phone
 - ▶ Turning Your Phone On and Off
 - ▶ Using Your Phone's Battery
 - ▶ Replacing the Convertible Covers
 - ▶ Displaying Your Phone Number
 - ▶ Making and Answering Calls
 - ▶ Using Features While On a Call
-

Your PCS Phone is packed with features that simplify your life and expand your ability to stay connected to the people and information that are important to you. This section will guide you through the basic functions and calling features of your phone.

Front View of Phone



Functions

- 1. Soft Key: (Left)** Lets you select the menu (option) corresponding to the bottom left line on the Display Screen. **(Right)** Lets you select the menu (option) corresponding to the bottom right line on the Display Screen.
- 2. Volume Key:** Use the upper and lower volume keys to adjust your phone's earpiece and ringer volume, and to mute the incoming call alert. You can also use the volume keys to scroll up or down through menus and lists.
- 3. Send Key:** Send and answer calls, view recent dialed calls list.
- 4. Navigation Key:** Move through menus and lists.
- 5. Smart Key:** Select menu items, send and end calls.
- 6. Accessory Connector Port:** Insert charger and phone accessories.
- 7. Microphone:** You should speak into this microphone.
- 8. Back Key:** Allows you to clear characters from the screen, mute ringer when receiving incoming calls, back up menu levels or display Time/Date while the phone is in use.
- 9. End (Power) Key:** Press to turn the phone on/off, end phone calls exit menu system.
- 10. Voice Key:** Record voice notes, phonebook and shortcut names.
- 11. Status Light:** The status light tells you when you have an incoming call or message, or when your phone is roaming (using a non-home system). The light changes color to indicate different states: **alternating red/green:** incoming call, **flashing green:** in service, home system, **flashing yellow:** roaming, non-home system, **flashing red:** no service, **alternating yellow/green:** text or voicemail message received.

Note: By default, the status light indicator is turned off to extend battery life. Turning on the status light will substantially reduce your phone's standby time (the length of time that your phone's battery retains power when the phone is turned on but is not in use).

12. Main LCD (display): Displays the phone's main menu, features, modes, etc.

13. Earpiece: Lets you hear the caller's voice and voice prompts.

- 14. Sub LCD (display):** When the clamshell is closed, it's useful to see the various status of the phone on this screen. All the Sub LCD indications are deleted when you open the clamshell except previewing several settings.

Viewing the Display Screen

This list identifies the symbols you'll see on your display screen.

- ▶  Shows the strength of your phone's connection with the network. You cannot send or receive calls when the "no signal" indicator is displayed.
- ▶  Appears when a call is in progress.
- ▶  Appears when your phone uses another network system outside your home network. When you leave your home network area, your phone roams or seeks another network.
- ▶  Appears when your phone receives a text message.
- ▶  Appears when you receive a voicemail message.
- ▶  Shows the amount of charge left in your battery. The more segments visible, the greater the charge. Recharge your battery as soon as possible when you see the "Low Battery" warning message.

Tip: When you charge the battery, the battery level indicator instead shows how much of the charging process is complete.

- ▶ GPRS  Your service provider may use one of these indicators to indicate that a GPRS packet data connection is active. This type of connection may be used by your service provider to allow faster data transfer speeds. The GPRS indicator does not mean that you are in a call; it indicates only that you are registered on the network via a GPRS connection.
- ▶  Shows the current selected alert profile. The default alert setting is a ringer.  Loud ring,  Soft ring,  Vibrate,  Ring and vibrate,  Silent.

Tip: Display indicators let you know when you're off the enhanced Sprint Nationwide PCS Network and whether you're operating in digital or analog mode.

Features of Your PCS Phone

Congratulations on the purchase of your PCS Phone. This phone is lightweight, easy-to-use, and reliable. It also offers many significant features and service options:

- ▶ Dual-band capability provides access to other PCS Digital and Analog Networks where Sprint has implemented roaming agreements (page 57).
- ▶ The built-in organizer lets you schedule alerts to remind you of important events (page 86).
- ▶ Three hundred internal phone book entries store up to five phone numbers each (page 79).
- ▶ You can dial Speed Dial entries using one key press for locations 1-9 or two key presses for locations 10-20 (page 81).
- ▶ Your PCS Phone is equipped with a Location feature which will allow the network to detect your position, making some PCS Applications easier to use. (page 45).

Turning Your Phone ON and OFF

Turning Your Phone ON

- To turn your phone on, press **END/0** for approximately two seconds.

Once your phone is ON, it displays “Searching for Service” which indicates that your phone is searching for a signal. When your phone finds a signal, it automatically enters standby mode – the phone’s idle state. At this point, you are ready to begin making and receiving calls.

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated.

When a signal is found, your phone automatically returns to standby mode.

If necessary, enter your four-digit unlock code and press **END/0** (**OK**). The unlock code is originally set to 1234. Your service provider may change this number before you receive your phone.

In Power Save mode, your phone searches for a signal periodically without your intervention. You can also initiate a search for PCS Service by pressing any key (when your phone is turned ON).

Tip: The Power Save feature helps to conserve your battery power when you are in an area where there is no signal.

Turning Your Phone OFF

- Press **END/0** for two seconds until you see the powering down animation on the display screen.

Your screen remains blank while your phone is off (unless the battery is charging).

Using Your Phone’s Battery

Battery Capacity

Your PCS Phone is equipped with a Lithium Ion (Li-Ion) battery. It allows you to recharge your battery before it is fully drained. The battery provides approximately 150 minutes of continuous digital talk time (103 minutes in analog) or approximately 103 hours of continuous digital standby time (25 hours in analog).

Your phone is designed to be used only with Motorola

Original batteries and accessories. We recommend that you store batteries in their protective cases when not in use.

Note: Long backlight settings, searching for service, vibrate mode, and browser use affect the battery’s talk and standby times.

Tip: Be sure to watch your phone’s battery level indicator and charge the battery before it runs out of power.

Installing the Battery

Before you can use your phone, you need to install and charge the battery.

1. Remove the battery from its protective clear plastic case.

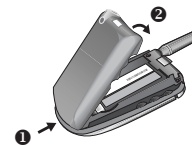
2. If the phone’s battery door is already in place, push down the battery door release latch and lift the battery door off of the phone.



3. Insert the battery, printed arrow first, into the battery compartment and push down.



4. Insert the ridge at the bottom of the battery door into the base of the phone, then push the door down and snap it into place.



Charging the Battery

Your PCS Phone comes with a rechargeable battery. You should charge the battery as soon as possible so you can begin using your phone.

Keeping track of your battery’s charge is important. If your battery level becomes too low, your phone automatically turns off and you will lose all the information you were just working on. For a quick check of your phone’s battery level, glance at the battery charge

indicator located in the upper-right corner of your phone's display screen. If the battery charge is getting too low, the battery icon  blinks and the phone sounds a warning tone.

Always use a Sprint-approved travel charger, or vehicle power adapter to charge your battery.

Warning! Using the wrong battery charger could cause damage to your phone and void the warranty.

Using the Travel Charger

To use the travel charger provided with your phone:

1. Plug the travel charger into your phone with the release tab facing up.
2. Plug the other end of the travel charger into the appropriate electrical outlet.
3. When your phone indicates that the battery is fully charged "Charge Complete", press the release tab and remove the travel charger.



Note: When you charge the battery, the battery level indicator in the upper right corner of the display shows how much of the charging process is complete.

It takes approximately 3 hours to fully recharge a completely rundown battery. With the Sprint-approved Li-Ion battery, you can recharge the battery before it becomes completely run down.

Battery Use

To prevent injuries or burns, do not allow metal objects to contact or short-circuit the battery terminals. To maximize your battery's performance:

- ▶ Always use Motorola Original™ batteries and battery chargers. The phone warranty does not cover damage caused from using non-Motorola batteries and/or battery chargers.
- ▶ New batteries or batteries that have been stored for long periods of time may require a longer charge time.

- ▶ Maintain the battery at or near room temperature when charging.
- ▶ Do not expose batteries to temperatures below -10°C (14°F) or above 45°C (113°F). Always take your phone with you when you leave your vehicle.
- ▶ When you do not intend to use a battery for a while, store it uncharged in a cool, dark, dry place, such as a refrigerator.
- ▶ Over extended periods of time, batteries gradually wear down and require longer charging times. This is normal. If you charge your battery regularly and notice a decrease in talk time or an increase in charging time, then it is probably time to purchase a new battery.
- ▶ The more you talk on the phone or use phone features (like sending text messages), the less standby time your battery has. You can also extend battery life by turning off the status light.

The rechargeable batteries that power this product must be disposed of properly and may need to be recycled. Refer to your battery's label for battery type. Contact your local recycling center for proper disposal methods. Never dispose of batteries in a fire because they may explode.



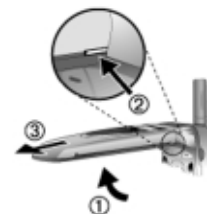
Replacing the Convertible Covers

You can replace the flip cover and battery cover on your phone to personalize its appearance. Matching front and back cover sets are available in a variety of colors and designs.

Your phone is designed to be used only with Motorola Original accessories. See your Motorola retailer for new or replacement covers.

To remove a flip cover:

1. Open your flip phone half way.
2. Press in the tiny silver release button with your fingernail. This button is on the side of the top half of the phone. While pressing the silver button in, slide the cover off the phone.



To attach a flip cover:

1. Close your flip phone.
2. Line up the ridges on each side of the new cover so that they align with the slots on the phone.
3. Slide the new cover onto the phone until it snaps into place.



Displaying Your Phone Number

Just in case you forget your phone number, your PCS Phone can remind you.

To display your phone number:

- Press **Menu** (Menu) to access the main menu and select **Settings** then **Phone Info** then **My Phone number**. Your phone number will be displayed.

Note: To access the phone's main menu, press **Menu** (Menu) softkey button from standby mode. Menu items may be selected by highlighting them with the navigation key and pressing **OK**, or you can press the number corresponding to the menu item on your keypad.

Making and Answering Calls

Making Calls

Your PCS Phone offers many different ways to make calls, including PCS Voice Command™ (page 121), Speed Dialing (page 81), and using Call History (page 67).

To call a number, your phone must be turned on, be unlocked, and have a network connection with adequate signal strength.

To make a call using your keypad:

1. Make sure your phone is on.
2. Enter a phone number. (If you make a mistake while dialing, press **BACK** (Delete) to erase one digit at a time. Press and hold **BACK** (Delete) to erase the entire number.)
3. Press **TALK**. (To make a call when you are roaming and Call Guard is enabled, highlight **Roam Call** and press **OK**. See "Call Guard" on page 61)
4. When you're finished, press **END/0** or close the phone.

Tip: To redial your last outgoing call, press **TALK** twice.

Tip: When making calls off the enhanced Sprint Nationwide PCS Network, always dial using 11 digits (1 + area code + phone number).

Answering Calls

1. To receive a call, your phone must be turned on and have a network connection with adequate signal strength. If your phone is locked, you must unlock the phone to answer the call. When you receive a call, your phone rings and/or vibrates and displays an incoming call message.
2. When a call comes in, answer the call by pressing **TALK**. Depending on your settings, your PCS Phone notifies you of incoming calls in the following ways:
 - ▶ The phone rings or vibrates.
 - ▶ The LED flashes.
 - ▶ The backlight illuminates.
 - ▶ The screen displays an incoming call message.
 - ▶ If available, the phone number of the caller is displayed.
 - ▶ If the phone number is in your Internal Phone Book, the Phone Book entry's name is displayed.

The following options are also displayed. To select an option, press the corresponding **Menu**.

- ▶ **Hold** your phone displays a  (flashing phone) indicator to indicate that the call is on hold.
- ▶ **My Tel. Numbers** see your phone number.
- ▶ **Received Calls or Dialed Calls** view the telephone numbers from calls you have recently received or dialed.
- ▶ **Messages** view or send messages from the message center.
- ▶ **Datebook** view your schedule of events stored in the datebook.
- ▶ **Other Information** view a list of feature specifications for your phone.

Answering a Roam Call With Call Guard Enabled

To answer a call when you are roaming and Call Guard is enabled:

- Select **Answer** to answer the call. (See “Call Guard” on page 61 for additional information.)

Note: If your phone is off, incoming calls go to voicemail.

Ending a Call

To disconnect a call when you are finished:

- Close the phone or press **END**.

External Display (Sub LCD)

When your phone is on and the flip is closed, the external display shows the time and date. It also displays messages to notify you of events (like incoming calls) that need your attention.

Set Phone Alert

To change your phone’s alert in the external display:

- ▶ **Press volume keys** scroll to “Alert”.
- ▶ **Press smart key** select an “Alert Type”.
- ▶ **Press again volume keys** return to the “Idle Display”.

Adjust Voice Call Forwarding

To activate or deactivate voice call forwarding in the external display:

- ▶ **Press volume keys** scroll to “Forward”.
- ▶ **Press smart key** select “All Calls” or “Off”.
- ▶ **Press again volume keys** return to the “Idle Display”.

Note: You must store a forwarding number to use this feature.

Return an Unanswered Call

When you cannot answer a call, your phone keeps a record of your unanswered calls and displays the message “X Missed Calls”, where “X” is the total number of missed calls. When you see the “X Missed Calls” message in the external display:

- ▶ **Press smart key** see the received calls list.
- ▶ **Press volume keys** scroll through the list and select a call that you want to return.
- ▶ **Press again smart key** send the call.

Note: Because the microphone and earpiece are unavailable when the phone is closed, you must use a headset or other hands-free device with this feature.

Smart Key

The smart key gives you another way to perform many basic phone functions. It’s called the smart key because it anticipates the next action you are likely to perform. For example, if you highlight an item and press the smart key, the smart key selects the highlighted item. You can use the smart key to send and end calls, select menu items, toggle features on and off, and open your phonebook. The smart key usually performs the same function as the right soft key (**➤**).

Note: The smart key provides an optional way to do some things faster. It is never the only way to perform a task.

Changing the Zoom Setting

You can set your phone’s display to show either three lines or two lines of text plus soft key labels. Three lines of text display more information, while two lines increase text size.

Volume Keys

Use the upper and lower volume keys to adjust your phone’s earpiece and ringer volume, and to mute the incoming call alert.

- ▶ When you are in a call - increase or decrease earpiece speaker volume.
- ▶ The idle display is showing - increase or decrease ringer volume.

Note: You can also use the volume keys to scroll up or down through menus and lists.

Redialing a Number

You can redial a previously dialed phone number, whether the call was connected or busy. From the idle display:

1. Press **TALK** - go directly to the dialed calls list and scroll to the entry you want to call with navigation key.
2. Press **TALK**.

Using Automatic Redial

If you receive a busy signal, your phone displays the message “Call Failed”. When automatic redial is turned on, your phone automatically makes a number of redial attempts until the call goes through. When the call goes through, your phone rings or vibrates one time, displays the message “Redial Successful”, and then connects the call.

When automatic redial is turned off, you can manually activate the feature to redial a phone number. When you hear a busy signal and see the Call Failed message:

- ▶ Press **TALK** or **↵** to activate automatic redial.

Caller ID

The calling line identification (caller ID) feature lets you see who is calling before you answer.

- ▶ If the caller's name is stored in your phonebook, the phone automatically displays the name. Otherwise, the phone displays the caller's phone number.
- ▶ If caller ID information is not available, your phone displays the message “Incoming Call”.

Returning an Unanswered Call

Your phone keeps a record of your unanswered calls. When you cannot answer a call, your phone displays **☎** indicator and the message “X Missed Calls”, where “X” is the total number of missed calls.

1. Press **☎** (**View**) to see the received calls list, with the most recent call at the top and scroll through the list and select a call that you want to return with navigation key.
2. Press **TALK** .

Dialing an Emergency Number

Your service provider programs one or more emergency phone numbers (such as 911) that you can call under any circumstances. You can dial and call the emergency number even when your phone is locked, when you are prompted to enter a code or password,

To call the emergency number at any time:

1. Dial the emergency number (such as 911)
2. Press **TALK** .

Note: Emergency numbers vary by country. Your phone's emergency number(s) may not work in all locations.

Entering Numbers in the Notepad

Your phone stores the most recent string of digits entered on the keypad in a temporary memory location called the notepad. These digits can be the last phone number that you called, or a phone number that you simply entered but did not call. These digits remain in the notepad even when you turn off the phone. You can use the notepad to store a phone number that you intend to call later (such as a phone number told to you by the other party during a call).

Terminating an Incoming Call

While the phone is ringing or vibrating:

1. Press **END/ID** or **BACK** (**Ignore**).

Depending on your phone settings and the type of subscription you have with your service provider, the call may be forwarded to another number, or the calling party may hear a busy signal.

Dialing With Speed Dial

The speed dial feature lets you dial any phonebook entry with a minimal number of keypresses. Whenever you store an entry in your phonebook, the entry is assigned a unique speed dial number. If you know the speed dial number for the phonebook entry you want to call, you can use the speed dial feature.

1. Enter the one-, two-, or three-digit speed dial number for the entry you want to dial and press **TALK** .

Dialing With 1-Touch Dial

You can call phonebook entries 1 through 9 with the push of a single key. Just press and hold the one-digit speed dial number for one second.

Dialing a Number In a Text Message

If you receive a text message with an embedded phone number, you can dial the number directly. If the message contains more than one phone number, to scroll to a number with navigation key and then press **☞** (**Select**) to dial.

1. Press **☰** (**Menu**) to access the main menu.

2. Select **Messaging**, press **OK** (OK) or **↩** (Select).
3. Select **Inbox**, press **OK** (OK) or **↩** (Select).
4. Scroll to the message with the number.
5. Press **↩** (Inbox Menu).
6. Press **OK** (Call Back).
7. dial the number in the message.

Additional Dialing Features

In addition to pressing numbers on your keypad, you can insert numbers or characters and send calls in a variety of ways.

To insert the local international access code:

To change your phone's alert in the external display:

- ▶ Press **↩** for two seconds insert the international access code for the country from which you are calling.

While dialing (with digits visible in the display):

To change your phone's alert in the external display:

- ▶ Press **↩** (Menu) and select "Attach Number" attach a number from the phonebook or recent call lists to the end of the digits you entered.
- ▶ Press **↩** (Menu) and select "Hide ID/Show ID" Hide (or show) your caller ID for the next call.
- ▶ Press **↩** (Menu) and select "Send Message" create a text message addressed to the number entered.
- ▶ Press **↩** (Menu) and select "Talk Then Fax" talk and then send a fax to the same phone number within the same call.
- ▶ Press **↩** (Menu) and select "Insert Pause" tells your phone to wait until the call connects before it automatically sends the next digit(s) in a series.
- ▶ Press **↩** (Menu) and select "Insert Wait" tells your phone to wait until the call connects, and then to prompt you for confirmation before it sends the next digit(s).
- ▶ Press **↩** (Menu) and select "Insert 'n'" tells your phone to prompt you for a number before dialing the call. The number you enter is inserted into the dialing sequence in place of the n character.

You can also call numbers using these features:

- ▶ Press and release the voice key on the right side of your phone and say the entry's name (in two seconds).
- ▶ Press **↩** (Menu) and select "Service Dial" and entry to call.
- ▶ Press **↩** (Menu) and select "Fixed Dial" and entry to call.
- ▶ Press **↩** (Menu) and select "Recent Calls" and select "Received Calls or Dialed Calls" and entry to call.

Using Features While On a Call

Using Call Waiting

If you subscribe to call waiting, an alert tone sounds while you are on a call to indicate that you have received a second call.

To put the first call on hold and answer the second call:

1. Press **TALK** to answer the new call.
2. Press **↩** (Switch) to switch back to the first call (you can any time to switch between calls) or press **↩** (Link) to connect the two calls or press **↩** (Menu) and select (End Call On Hold) to end the call that is on hold.

Making a Conference Call

To talk to more than one person on a call, you can make a conference call. Call the first person, call the second person, then link the two calls.

1. Dialing the first person's number, then press **TALK**.
2. Press **↩** (Hold) or press **↩** (Menu) and select (Hold) put the first call on hold. Your phone displays a  (flashing phone) indicator next to the call on.
3. Dialing the next person's number, then press **TALK**. Your phone displays a  (active call) indicator next to the new active call.
4. Press **↩** (Link) to connect the two calls.
5. Press **END** end the entire call.

Transferring a Call

While you are on a call, you can transfer the call to another phone by first talking to the person who answers the other phone, or by directly transferring the call.

Announce the Call Transfer

You can talk to the person who answers the other phone before you transfer the call, to tell them whom you are transferring.

1. Press  (Menu) and select (Hold).
2. Enter the phone number where you are transferring the call then press . Speak to the person who answers the target phone.
3. Press  (Menu) and select (Transfer) and press  (Select).
4. Press  (OK). Your phone displays the message “Transfer: Complete” when the call is transferred. You can hang up the phone when you see this message.

Do Not Announce the Call Transfer

You can directly transfer a call without talking to the person who answers.

1. Press  (Menu) and select (Transfer) press .
2. Your phone displays the message “Transfer: Complete” when the call is transferred. You can hang up the phone when you see this message.

Additional On-Call Features

While you are on a call, you can perform the following tasks:

- ▶ Press  (Hold) or press  (Menu) and select (Hold) put a call on hold. Your phone displays a  (flashing phone) indicator to indicate that the call is on hold.
- ▶ Press  (Menu) and select “My Tel. Numbers” see your phone number.
- ▶ Press  (Menu) and select “Received Calls or Dialed Calls” view the telephone numbers from calls you have recently received or dialed.
- ▶ Press  (Menu) and select “Messages” view or send messages from the message center.
- ▶ Press  (Menu) and select “Datebook” view your schedule of events stored in the datebook.
- ▶ Press  (Menu) and select “Messages” view or send messages from the message center.

- ▶ Press  (Menu) and select “Other Information” view a list of feature specifications for your phone.

Saving a Phone Number

A phone number or email address is required for a phonebook entry. All other information is optional. To save a number from standby mode:

1. Enter a phone number.
2. Press  (Store).
3. Choose “New Entry” or “Existing Entry”. press  (OK) or  (Select).
4. The Phone # will appear next to a list of icons, press  (OK) or  (Select). The name of the icon is displayed above the list. Use the Navigation key to choose the type of # you’re adding, as indicated by the icon then use the Navigation key, press  (OK) or  (Select).
5. Enter a different speed number. Use the Navigation key (Left or Right) to choose the speed number then use the Navigation key (Up or Down) to save.
6. Enter a “voice name”, press  (OK). Appears message “press voice key then say name” then press “Voice Key”. “say name now” follow the voice prompts to user saying voice name.
7. Press  (Done) to move “Entry Form”.
8. Enter a “Name” to display the name editor and enter a name. To change the input mode, press  (Options) and Press  (Browse) search the name from “Phonebook”. Press  (OK) or  (Select) to store the name.
9. Use the Navigation key to scroll through more options for the entry (Ringer ID, Email, Add more phone number).
10. To store the entry, press  (Done) “Stored” will be displayed.

Finding a Phone Number

You can search Internal Phone Book entries for phone numbers that contain a specific string of numbers.

To find a phone number:

1. Press  (Menu) to access the main menu.

2. Select **Phonebook**, press **OK** (OK) or **↵** (Select).
3. Select **Find Name**, press **OK** (OK) or **↵** (Select).
4. Enter the name or part of the name, All matched entries will be displayed. Use the navigation key to select the entry.
5. Press **OK** (OK) or **↵** (View).
6. To display the Internal Phone Book entry that contains the phone number and display details information and press **↵** (Edit). To edit the phone number.

Dialing and Saving Phone Numbers With Pauses

You can dial or save phone numbers with pauses for use with automated systems, such as voicemail or credit card billing numbers. If you select a hard pause, the next set of numbers are sent. If you select a Time Pause, your phone automatically sends the next set of numbers after setted seconds.

Note: You can have multiple pauses in a phone number and combine 2-second and hard pauses.

To dial or save phone numbers with pauses:

1. Enter the phone number and press **⏏** (Options).
2. Select either “Hard Pause” or “2Sec. Pause” and press **↵** (Select). Hard Pauses are displayed as a “P” and 2Sec. Pause as a “T”.
3. Enter additional numbers.
4. Press **⏏** (Options) then **↵** (Select) “Call” to dial the number or press the **⏏** (Store) to save the number in your Internal Phone Book.

Dialing From the Internal Phone Book

To dial directly from an Internal Phone Book entry:

1. Press **⏏** (Menu) to access the main menu.
2. Select **Phonebook**, press **OK** (OK) or **↵** (Select).
3. Select **Find Name**, press **OK** (OK) or **↵** (Select).
4. Enter the name or part of the name, All matched entries will be displayed. Use the navigation key to select the entry.
5. Press **OK** (OK) or **↵** (View).
6. To display the Internal Phone Book entry that contains the phone number and display details information and press **TALK** (Call).

Controlling Your Phone's Settings

In This Section

- ▶ Sounds Settings
 - ▶ Display Settings
 - ▶ Location Settings
 - ▶ Others Settings
 - ▶ Phone Info
-

This section describes how you can change your phone's settings to best suit your needs. Take a few moments to review these options and add or adjust the settings that are right for you.

Reminder: To access the phone's main menu, press  (**Menu**) from standby mode. Menu items may be selected by highlighting them with the navigation key and pressing  (**OK**) or  (**Select**), or you can press the number corresponding to the menu item on your keypad.

Sounds Settings

Volume

Ringer Volume

To adjust Ringer volume:

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Sounds**, press  (**OK**) or  (**Select**).
4. Select **Volume**, press  (**OK**) or  (**Select**).
5. Select **Ringer Volume**, press  (**OK**) or  (**Select**).
6. Adjust the ringer volume with the Navigation key.
 - **Silence All / Ringer Off / Vibrate / Low / Medium / High / High & Vibrate / Escalating**
7. To save, press  (**OK**) or  (**Select**).

Voice Volume

To adjust earpiece volume:

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Sounds**, press  (**OK**) or  (**Select**).
4. Select **Volume**, press  (**OK**) or  (**Select**).
5. Select **Voice Volume**, press  (**OK**) or  (**Select**).
6. Adjust the ringer volume with the Navigation key.
 - **Level 0~7**
7. To save, press  (**OK**) or  (**Done**).

Headset Volume

To adjust headset volume:

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Sounds**, press  (**OK**) or  (**Select**).
4. Select **Volume**, press  (**OK**) or  (**Select**).
5. Select **Headset Volume**, press  (**OK**) or  (**Select**).
6. Adjust the ringer volume with the Navigation key.
 - **Level 0~7**
7. To save, press  (**OK**) or  (**Done**).

Alarm Volume

To adjust Alarm volume:

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Sounds**, press  (**OK**) or  (**Select**).
4. Select **Volume**, press  (**OK**) or  (**Select**).
5. Select **Alarm Volume**, press  (**OK**) or  (**Select**).
6. Adjust the ringer volume with the Navigation key.
 - **Level 0~7**
7. To save, press  (**OK**) or  (**Done**).

Key Beep

To adjust keypad tone:

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Sounds**, press  (**OK**) or  (**Select**).
4. Select **Volume**, press  (**OK**) or  (**Select**).
5. Select **Key Beep**, press  (**OK**) or  (**Select**).
6. Adjust the ringer volume with the Navigation key.
 - **Level 0~7**
7. To save, press  (**OK**) or  (**Done**).

Auto Volume

To adjust auto volume:

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Sounds**, press  (**OK**) or  (**Select**).
4. Select **Volume**, press  (**OK**) or  (**Select**).
5. Select **Auto Volume**, press  (**OK**) or  (**Select**).
6. Select “On” or “Off” then press  (**OK**) or  (**Select**) to save it.

Ringer Types

Ringer types help you identify incoming calls and messages. You can assign ringer types to individual phone book entries, types of calls and types of messages.

- ▶ **Preprogrammed Ringers** include a variety of standard ringer types and familiar music.
- ▶ **Vibrating Ringer** alerts you to calls or messages without disturbing others.

Selecting Ringer Types for Voice Calls

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Sounds**, press  (**OK**) or  (**Select**).
4. Select **Ringer Types**, press  (**OK**) or  (**Select**).
5. Select **Voice Calls**, press  (**OK**) or  (**Select**).
6. Select “With Caller ID”, “Restricted ID” or “Without Caller ID” then press  (**OK**).
7. Select your desired ringer type and, press  (**OK**) or  (**Select**) to save it.
 - **Badineri / Big Ben / Blues Riff / Bumblebee / Dance / Falling / Flying Carpet / Gliss / Invention / Pop / Rag Tag / Rock It / Rock-a-Billy / Samba / Smooth Music / Trumpet Call / Vibrate / Silent**

Selecting Ringer Types for Messages

1. Press  (**Menu**) to access the main menu.

2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Sounds**, press  (**OK**) or  (**Select**).
4. Select **Ringer Types**, press  (**OK**) or  (**Select**).
5. Select **Messages**, press  (**OK**) or  (**Select**).
6. Select “Voicemail” or “Text” then press  (**OK**) or  (**Select**).
7. Select your desired ringer type and, press  (**OK**) or  (**Select**) to save it.
 - **Badineri / Big Ben / Blues Riff / Bumblebee / Dance / Falling / Flying Carpet / Gliss / Invention / Pop / Rag Tag / Rock It / Rock-a-Billy / Samba / Smooth Music / Trumpet Call / Vibrate / Silent**

Selecting Ringer Types for Alarm

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Sounds**, press  (**OK**) or  (**Select**).
4. Select **Ringer Types**, press  (**OK**) or  (**Select**).
5. Select **Alarm**, press  (**OK**) or  (**Select**).
6. Select your desired ringer type and, press  (**OK**) or  (**Select**) to save it.
 - **Badineri / Big Ben / Blues Riff / Bumblebee / Dance / Falling / Flying Carpet / Gliss / Invention / Pop / Rag Tag / Rock It / Rock-a-Billy / Samba / Smooth Music / Trumpet Call / Vibrate / Silent**

Roam Ringer

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Sounds**, press  (**OK**) or  (**Select**).
4. Select **Ringer Types**, press  (**OK**) or  (**Select**).
5. Select **Roam Ringer**, press  (**OK**) or  (**Select**).
6. Select “Distinctive” or “Normal” with the Navigation key.
 - **Distinctive**—Sounds a different ringer type.
 - **Normal**—Sounds the same ringer type as used in Home area.
7. To save, press  (**OK**) or  (**Select**).

Alerts

Allows you to set an alert that sounds when any handset changes occur.

Service Alerts

Sounds an alert when leaving a service area and entering a roaming service area.

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK** (OK) or **⏮ (Select)**.
3. Select **Sounds**, press **OK** (OK) or **⏮ (Select)**.
4. Select **Alerts**, press **OK** (OK) or **⏮ (Select)**.
5. Select **Service Alerts**, press **OK** (OK) or **⏮ (Select)**.
6. Select “On” or “Off” with the Navigation key.
7. To save, press **OK** (OK) or **⏮ (Select)**.

Minute Beep

Sounds an alert every minute of a phone call.

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK** (OK) or **⏮ (Select)**.
3. Select **Sounds**, press **OK** (OK) or **⏮ (Select)**.
4. Select **Alerts**, press **OK** (OK) or **⏮ (Select)**.
5. Select **Minute Beep**, press **OK** (OK) or **⏮ (Select)**.
6. Select “On” or “Off” with the Navigation key.
7. To save, press **OK** (OK) or **⏮ (Select)**.

Voicemail Alerts

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK** (OK) or **⏮ (Select)**.
3. Select **Sounds**, press **OK** (OK) or **⏮ (Select)**.
4. Select **Alerts**, press **OK** (OK) or **⏮ (Select)**.
5. Select **Voicemail**, press **OK** (OK) or **⏮ (Select)**.
6. Select “Once”, “Repeat” or “Off” with the Navigation key.

7. To save, press **OK** (OK) or **⏮ (Select)**.

Messaging Alerts

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK** (OK) or **⏮ (Select)**.
3. Select **Sounds**, press **OK** (OK) or **⏮ (Select)**.
4. Select **Alerts**, press **OK** (OK) or **⏮ (Select)**.
5. Select **Messaging**, press **OK** (OK) or **⏮ (Select)**.
6. Select “Once”, “Repeat” or “Off” with the Navigation key.
7. To save, press **OK** (OK) or **⏮ (Select)**.

Call Lost Alerts

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK** (OK) or **⏮ (Select)**.
3. Select **Sounds**, press **OK** (OK) or **⏮ (Select)**.
4. Select **Alerts**, press **OK** (OK) or **⏮ (Select)**.
5. Select **Call Lost**, press **OK** (OK) or **⏮ (Select)**.
6. Select “On” or “Off” with the Navigation key.
7. To save, press **OK** (OK) or **⏮ (Select)**.

Tones

Tone Length

To adjust tone length:

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK** (OK) or **⏮ (Select)**.
3. Select **Sounds**, press **OK** (OK) or **⏮ (Select)**.
4. Select **Tones**, press **OK** (OK) or **⏮ (Select)**.
5. Select **Tone Length**, press **OK** (OK) or **⏮ (Select)**.
6. Select “Long” or “Short” with the Navigation key.
7. To save, press **OK** (OK) or **⏮ (Select)**.

My Tones

You can create up to 32 custom alert tones for your phone. The tones you create appear in the list of available alerts.

- 1. Press (Menu) to access the main menu.
- 2. Select **Settings**, press (OK) or .
- 3. Select **Sounds**, press (OK) or .
- 4. Select **Tones**, press (OK) or .
- 5. Select **My Tones**, press (OK) or .
- 6. Select **New Tone**, press (OK) or .
- 7. Select **Note**, enter notes for the tone by using keypad and store the notes, press (OK) or .

Entering Notes Method: To create a new tone, use the keypad keys to enter each note. Press a key multiple times to cycle through its available notes or options (pitch, octave, or length). The default setting for a new tone is a quarter note in octave two.

Keys	Phone Display	Description
	1	set octave one
	2	set octave two
	3	set octave three
	A	note A
	B	note B
	C	note C
	D	note D
	E	note E
	F	note F
	G	note G
	R	rest
	#	sharp
	b	flat
	q	quarter note or quarter rest
	h	half note or half rest
	w	whole note or whole rest

Enter a note as follows

Change the octave : Set the new octave (1, 2, or 3) before selecting the note. The new octave applies to the note and all following notes until you change it again.

Select the note : Press a keypad key to enter a note.

Change a note to a sharp or flat : Enter a sharp or flat (# or b) after selecting the note. Some sharps and flats are played as standard notes.

Change a note's length : Set the new length (q, h, or w) after selecting the note.

The new length applies to the note and all following notes until you change it again.
Add a rest : Enter one or more rests (R characters) as needed in the tone sequence. You can set the length of the rest by entering a q, h, or w character after the rest, just as you can for a note.

- 8. Press (Options) to select (Play/Save/Clear/Help) submenu, press (OK) or .
- **Play :** The phone displays the playback meter and plays the tone.
 - **Save :** Store the tone.
 - **Clear :** To delete a custom tone that you created.
 - **Help :** To display my tone user guide.
- 9. Select **Name**, enter the name for the tone and store the name, press (OK) or .
- 10. To store the tone, press (Done).

Editing a Tone

You cannot edit the standard alert tones included with your phone. To edit a custom tone that you created:

- 1. Press (Menu) to access the main menu.
- 2. Select **Settings**, press (OK) or .
- 3. Select **Sounds**, press (OK) or .
- 4. Select **Tones**, press (OK) or .
- 5. Select **My Tones**, press (OK) or .
- 6. Select the tone you want to edit, press (OK) or .
- 7. Select the details you want to edit, enter new Name or Notes, press (OK) or .
- 8. To store the tone, press (Done).

Display Settings

Menu Display

Allows you to customize display.

Menu Theme

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Display**, press  (**OK**) or  (**Select**).
4. Select **Menu Display**, press  (**OK**) or  (**Select**).
5. Select **Menu Theme**, press  (**OK**) or  (**Select**).
6. Select your desired menu theme and, press  (**OK**) or  (**Select**) to save it.
 - Pacific / Mandarin / Evergreen / Autumn / Dusk / Silver

Menu Style

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Display**, press  (**OK**) or  (**Select**).
4. Select **Menu Display**, press  (**OK**) or  (**Select**).
5. Select **Menu Style**, press  (**OK**) or  (**Select**).
6. Select your desired menu style and, press  (**OK**) or  (**Select**) to save it.
 - Desktop / List View

Standby Display

Screensaver

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Display**, press  (**OK**) or  (**Select**).
4. Select **Standby Display**, press  (**OK**) or  (**Select**).
5. Select **Screensaver**, press  (**OK**) or  (**Select**).

6. Select your desired screensaver and, press  (**Preview**) to preview select screensaver, press  (**OK**) or  (**Select**) to save it.

- Animation Flower / Animation Alien

Wallpaper

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Display**, press  (**OK**) or  (**Select**).
4. Select **Standby Display**, press  (**OK**) or  (**Select**).
5. Select **Wallpaper**, press  (**OK**) or  (**Select**).
6. Select your desired wallpaper and, press  (**Preview**) to preview select wallpaper, press  (**OK**) or  (**Select**) to save it.
 - Wallpaper Flower / Wallpaper Alien / Calendar / Clock / World Clock

Navigation Icon

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Display**, press  (**OK**) or  (**Select**).
4. Select **Standby Display**, press  (**OK**) or  (**Select**).
5. Select **Navigation Icon**, press  (**OK**) or  (**Select**).
6. Read the message, and press  (**OK**) or  (**Select**).
7. Select “Show” or “Hide” with the Navigation key
8. To save, press  (**OK**) or  (**Select**).

Assign Keys

Navigation Key

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Display**, press  (**OK**) or  (**Select**).
4. Select **Assign Keys**, press  (**OK**) or  (**Select**).

5. Select **Navigation Keys**, press  (OK) or  (Select).
6. Select “Up”, “Down”, “Left” or “Right” with the Navigation key
7. Select your desired new function to relabel and, press  (OK) or  (Select) to save it.
 - **Recent Calls / Phonebook / Messaging / Voicemail / Datebook / Games / Alarm Clock / Calculator / World Time / Stopwatch / Timer / Voice Memo / Settings**

Smart Key

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Display**, press  (OK) or  (Select).
4. Select **Assign Keys**, press  (OK) or  (Select).
5. Select **Smart Key**, press  (OK) or  (Select).
6. Select your desired new function to relabel and, press  (OK) or  (Select) to save it.
 - **Recent Calls / Phonebook / Messaging / Voicemail / Datebook / Games / Alarm Clock / Calculator / World Time / Stopwatch / Timer / Voice Memo / Settings / Main Menu**

Softkeys

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Display**, press  (OK) or  (Select).
4. Select **Assign Keys**, press  (OK) or  (Select).
5. Select **Softkeys**, press  (OK) or  (Select).
6. Select “Left” or “Right” with the Navigation key
7. Select your desired new function to relabel and, press  (OK) or  (Select) to save it.
 - **Recent Calls / Phonebook / Messaging / Voicemail / Datebook / Games / Alarm Clock / Calculator / World Time / Stopwatch / Timer / Voice Memo / Settings / Main Menu**

Backlight Control

The backlight setting lets you select how long the display screen and keypad are backlight after any key press is made.

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Display**, press  (OK) or  (Select).
4. Select **Backlight Control**, press  (OK) or  (Select).
5. Select “Display” or “Keypad” with the Navigation key
6. Select one of the following options and, press  (OK) or  (Select) to save it.
 - **Continuous / Always off / 8 seconds / 15 seconds**

Greetings

The text greeting can be up to 15 characters and is displayed on your phone’s screen in standby mode. You may choose to display a custom greeting or you may display your PCS User Name on the phone’s screen (the default setting).

To display or change your custom greeting:

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Display**, press  (OK) or  (Select).
4. Select **Greetings**, press  (OK) or  (Select).
5. Input user name or customize greeting, using the Alpha Editor, press  (Options) to change the input mode.
6. Press  (OK) or  (OK) to save it.

Contrast

To adjust the display’s contrast:

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Display**, press  (OK) or  (Select).
4. Select **Contrast**, press  (OK) or  (Select).

5. Adjust the ringer volume with the Navigation key.

- Level 0-6

6. To save, press **OK** (OK) or **⏮** (Done).

Font Size

1. Press **⏮** (Menu) to access the main menu.

2. Select **Settings**, press **OK** (OK) or **⏮** (Select).

3. Select **Display**, press **OK** (OK) or **⏮** (Select).

4. Select **Font Size**, press **OK** (OK) or **⏮** (Select).

5. Select “Zoom In” or “Zoom Out” with the Navigation key.

6. To save, press **OK** (OK) or **⏮** (Select).

Time and Date

1. Press **⏮** (Menu) to access the main menu.

2. Select **Settings**, press **OK** (OK) or **⏮** (Select).

3. Select **Display**, press **OK** (OK) or **⏮** (Select).

4. Select **Time and Date**, press **OK** (OK) or **⏮** (Select).

5. Select “Time Format” or “Date Format” with the Navigation key.

6. Select your desired time and date mode and, press **OK** (OK) or **⏮** (Select) to save it.

- Time Format : 12 hrs AM/PM / 24 hrs
- Date Format : MM/DD/YY / DD/MM/YY

Sleep Mode

1. Press **⏮** (Menu) to access the main menu.

2. Select **Settings**, press **OK** (OK) or **⏮** (Select).

3. Select **Display**, press **OK** (OK) or **⏮** (Select).

4. Select **Sleep Mode**, press **OK** (OK) or **⏮** (Select).

5. Select “After 5 sec.”, “After 30 sec.”, “After 60 sec.” or “Off” with the Navigation key.

6. To save, press **OK** (OK) or **⏮** (Select).

Location Settings

Your PCS Phone is equipped with a Location feature for use in connection with location-based services that may be available in the future.

The Location feature allows the network to detect your position. Turning Location off will hide your location from everyone except 911.

Note: Even if the Location feature is enabled, no service may use your location without your expressed permission.

To enable your phone's Location feature:

1. Press **⏮** (Menu) to access the main menu.

2. Select **Settings**, press **OK** (OK) or **⏮** (Select).

3. Select **Location**, press **OK** (OK) or **⏮** (Select).

4. Read the message, and press **OK** (OK) or **⏮** (OK).

5. Select “On” or “Off” with the Navigation key, press **OK** (OK) or **⏮** (Select).

6. Read the message, and press **OK** (OK) or **⏮** (OK) to save it.

When the Location feature is on, your phone's standby screen will display the  icon. When Location is turned off, the  icon will display.

Others Settings

Language

To assign a language for the phone's display:

1. Press **⏮** (Menu) to access the main menu.

2. Select **Settings**, press **OK** (OK) or **⏮** (Select).

3. Select **Others**, press **OK** (OK) or **⏮** (Select).

4. Select **Language**, press **OK** (OK) or **⏮** (Select).

5. Select “English” or “Español” with the Navigation key.

6. To save, press **OK** (OK) or **⏮** (Select).

Answer Options

Anykey Answer

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Others**, press  (OK) or  (Select).
4. Select **Answer Options**, press  (OK) or  (Select).
5. Select **Anykey Answer**, press  (OK) or  (Select).
6. Select “On” or “Off” with the Navigation key.
7. To save, press  (OK) or  (Select).

Auto Answer

Automatically answers a call after a preset number of rings.
An ideal setting for the hands-free car kit.

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Others**, press  (OK) or  (Select).
4. Select **Answer Options**, press  (OK) or  (Select).
5. Select **Auto Answer**, press  (OK) or  (Select).
6. Select “On” or “Off” with the Navigation key.
7. To save, press  (OK) or  (Select).

Open to Answer

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Others**, press  (OK) or  (Select).
4. Select **Answer Options**, press  (OK) or  (Select).
5. Select **Open to Answer**, press  (OK) or  (Select).
6. Select “On” or “Off” with the Navigation key.
7. To save, press  (OK) or  (Select).

Speed Dial

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Others**, press  (OK) or  (Select).
4. Select **Speed Dial**, press  (OK) or  (Select).
5. Select “On” or “Off” with the Navigation key.
6. To save, press  (OK) or  (Select).

Abbrev. Dial

Abbreviated Dialing is another form of speed dialing. If the last four digits you enter do not match any stored phone book entry, the digits are automatically prepended with the digits specified using the following steps.

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Others**, press  (OK) or  (Select).
4. Select **Abbrev. Dial**, press  (OK) or  (Select).
5. Select “On” or “Off” with the Navigation key.
6. To save, press  (OK) or  (Select).

Auto Redial

1. Press  (Menu) to access the main menu.
2. Select **Settings**, press  (OK) or  (Select).
3. Select **Others**, press  (OK) or  (Select).
4. Select **Auto Redial**, press  (OK) or  (Select).
5. Select “On” or “Off” with the Navigation key.
6. To save, press  (OK) or  (Select).

Airplane Mode

When your phone is in Airplane Mode, it cannot send or receive any calls or access online information. You may still use the phone's other features, such as Games, Notepad, Voice Memos, etc., while you are in Airplane Mode.

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or .
3. Select **Others**, press  (**OK**) or .
4. Select **Airplane Mode**, press  (**OK**) or .
5. Read the message, and press  (**OK**) or .
6. Select “On” or “Off” with the Navigation key.
7. To save, press  (**OK**) or .

TTY Settings

ATTY (also known as a TDD or Text Telephone), is a telecommunications device that allows people who are deaf or hard of hearing, or who have speech or language disabilities, to communicate via a telephone.

Your phone is compatible with select TTY devices. Please check with the manufacturer of your TTY device to ensure that it supports digital wireless transmission. Your phone and TTY device will connect via a special cable that plugs into your phone's headset jack. If this cable was not provided with your TTY device, contact your TTY device manufacturer to purchase the connector cable.

When establishing your PCS Service, please call PCS Customer Service Solutions™ via the state Telecommunications Relay Service (TRS) by first dialing     . Then provide the state TRS with this number: 866-727-4889.

To turn TTY Mode on or off:

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or .
3. Select **Others**, press  (**OK**) or .
4. Select **TTY Settings**, press  (**OK**) or .
5. Read the message, and press  (**OK**) or .
6. Select “Enable TTY” or “Disable TTY” with the Navigation key.
7. To save, press  (**OK**) or .

Note: In TTY Mode, your phone will display . If TTY mode is enabled, the audio quality of non-TTY devices connected to the headset jack may be impaired.

IMPORTANT NOTICE: 911 Emergency Calling

Sprint recommends that TTY users make emergency calls by other means including Telecommunications Relay Services (TRS), analog cellular, and landline communications. Wireless TTY calls to 911 may be corrupted when received by public safety answering points (PSAPs) rendering some communications unintelligible. The problem encountered appears related to TTY equipment or software used by PSAPs. This matter has been brought to the attention of the FCC, and the wireless industry and PSAP community are currently working to resolve this.

Phonebook Match

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or .
3. Select **Others**, press  (**OK**) or .
4. Select **Ph.Book Match**, press  (**OK**) or .
5. Select “On” or “Off” with the Navigation key.
6. To save, press  (**OK**) or .

Phone Info

My Phone Number

Displays the Phone Number and MS ID of your phone.

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or .
3. Select **Phone Info**, press  (**OK**) or .
4. Select **My Phone Number**, press  (**OK**) or .
5. To return to the previous page, press  (**OK**) or .

Icon Glossary

Shows list identifies the symbols you'll see on your display screen.

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or .
3. Select **Phone Info**, press  (**OK**) or .
4. Select **Icon Glossary**, press  (**OK**) or .
5. To return to the previous page, press  (**OK**) or .

Displays the various Software Version of your phone.

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Phone Info**, press  (**OK**) or  (**Select**).
4. Select **Version**, press  (**OK**) or  (**Select**).
5. To return to the previous page, press  (**OK**) or  (**OK**).

Setting Your Phone's Security

In This Section

► Setting Your Phone's Security

By adjusting the security settings on your PCS Phone, you receive peace of mind without sacrificing flexibility. With several options available, you can customize your phone to meet your personal needs.

Setting Your Phone's Security

Lock Phone

When your phone is locked, you can only receive incoming calls or make calls to 911, PCS Customer Solutions, or special numbers.

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK (OK)** or **⏮ (Select)**.
3. Select **Security**, press **OK (OK)** or **⏮ (Select)** and enter "Password".

Note: The default password is "1234".

4. Select **Lock Phone**, press **OK (OK)** or **⏮ (Select)**.
5. Select "Unlock", "Lock Now" or "Lock On Power Up" with the Navigation key.
 - **Unlock – Do not lock the phone.**
 - **Lock Now – Lock the phone now.**
 - **Lock On Power - Up – Lock the phone whenever it is turned on.**
6. To save, press **OK (OK)** or **⏮ (Select)**.

Change Lock Code

To change your lock code:

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK (OK)** or **⏮ (Select)**.
3. Select **Security**, press **OK (OK)** or **⏮ (Select)** and enter "Password".

Note: The default password is "1234".

4. Select **Change Lock Code**, press **OK (OK)** or **⏮ (Select)**.
5. Enter a new lock code.
6. Re-enter a new lock code.

Phonebook Lock

Prevents others from using phonebook without permission.

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK (OK)** or **⏮ (Select)**.
3. Select **Security**, press **OK (OK)** or **⏮ (Select)** and enter "Password".

Note: The default password is "1234".

4. Select **Phonebook Lock**, press **OK (OK)** or **⏮ (Select)**.
5. Select "On" or "Off" with the Navigation key.
6. To save, press **OK (OK)** or **⏮ (Select)**.

Erase Phonebook

To erase all the names and phone numbers in your Internal Phone Book:

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK (OK)** or **⏮ (Select)**.
3. Select **Security**, press **OK (OK)** or **⏮ (Select)** and enter "Password".

Note: The default password is "1234".

4. Select **Erase Phonebook**, press **OK (OK)** or **⏮ (Select)**.
5. Read the message, and press **OK (OK)** or **⏮ (OK)**.
6. Select "Yes" or "No" with the Navigation key.
7. To save, press **OK (OK)** or **⏮ (Yes)**.

Restrict Calls

Enables you to restrict certain features with the pass-word. You are to unlock it to use the features.

Outgoing Calls

Blocks all outgoing calls except emergency calls from being placed, but allows incoming calls to be answered.

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK (OK)** or **⏮ (Select)**.
3. Select **Security**, press **OK (OK)** or **⏮ (Select)** and enter “Password”.

Note: The default password is “1234”.

4. Select **Restrict Calls**, press **OK (OK)** or **⏮ (Select)**.
5. Select **Outgoing Calls**, press **OK (OK)** or **⏮ (Select)**.
6. Select “None”, “All” or “Phonebook only” with the Navigation key.
7. To save, press **OK (OK)** or **⏮ (Select)**.

Incoming Calls

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK (OK)** or **⏮ (Select)**.
3. Select **Security**, press **OK (OK)** or **⏮ (Select)** and enter “Password”.

Note: The default password is “1234”.

4. Select **Restrict Calls**, press **OK (OK)** or **⏮ (Select)**.
5. Select **Incoming Calls**, press **OK (OK)** or **⏮ (Select)**.
6. Select “None”, “All” or “Phonebook only” with the Navigation key.
7. To save, press **OK (OK)** or **⏮ (Select)**.

Limit Use

Prevents using “Application” or “Special Numbers” without permission.

Lock Application

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK (OK)** or **⏮ (Select)**.
3. Select **Security**, press **OK (OK)** or **⏮ (Select)** and enter “Password”.

Note: The default password is “1234”.

4. Select **Limit Use**, press **OK (OK)** or **⏮ (Select)**.
5. Select **Lock Application**, press **OK (OK)** or **⏮ (Select)**.
6. Select one of the following options (Call History/Phonebook/Messaging/Datebook/Alarm Clock) with the Navigation key, press **OK (OK)** or **⏮ (Select)**.
7. Select “Unlocked” or “Locked” with the Navigation key.
8. To save, press **OK (OK)** or **⏮ (Select)**.

Special Numbers

You can save three special numbers in addition to your Internal Phone Book entries. You can make and receive calls from special numbers even when your phone is locked.

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Settings**, press **OK (OK)** or **⏮ (Select)**.
3. Select **Security**, press **OK (OK)** or **⏮ (Select)** and enter “Password”.

Note: The default password is “1234”.

4. Select **Limit Use**, press **OK (OK)** or **⏮ (Select)**.
5. Select **Special Numbers**, press **OK (OK)** or **⏮ (Select)**.
6. Select the entry number where you would like to store the number, press **OK (OK)** or **⏮ (Select)**.
7. Press **OK (OK)** or **⏮ (Edit)**, then enter the phone number and press **OK (OK)** or **⏮ (OK)** or Press **⏮ (Browse)** select “Phonebook”, “Outgoing Calls”, “Incoming Calls” or “Missed Calls” with the Navigation key and search the phone number.
8. To save, press **OK (OK)** or **⏮ (OK)**.

Master Reset

Use this feature to reset all user-selectable options back to their original factory settings.

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Security**, press  (**OK**) or  (**Select**) and enter "Password".

Note: The default password is "1234".

4. Select **Master Reset**, press  (**OK**) or  (**Select**).
5. Read the message, and press  (**OK**) or  (**OK**).
6. Select "Yes" or "No" with the Navigation key.
7. To save, press  (**OK**) or  (**Yes**).

Master Clear

Use Master Clear to clear all user-selectable options, the resettable timer, the Phone Book and the Messaging memory.

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Security**, press  (**OK**) or  (**Select**) and enter "Password".

Note: The default password is "1234".

4. Select **Master Clear**, press  (**OK**) or  (**Select**).
5. Read the message, and press  (**OK**) or  (**OK**).
6. Select "Yes" or "No" with the Navigation key.
7. To save, press  (**OK**) or  (**Yes**).

Controlling Your Roaming Experience

In This Section

- Understanding Roaming
 - Setting Your Phone's Roam Mode
 - Controlling Roaming Charges Using Call Guard
-

Roaming is the ability to make or receive calls when you're off the Enhanced Sprint Nationwide PCS Network. Your new PCS Phone works anywhere on the enhanced Sprint Nationwide PCS Network and allows you to roam virtually anywhere in the U.S. where compatible wireless service is available.

This section explains how roaming works as well as special features that let you manage your roaming experience.

Understanding Roaming

Recognizing Icons on the Display Screen

Your phone’s display screen always lets you know when you’re off the enhanced Sprint Nationwide PCS Network and whether your phone is operating in analog or digital mode.The following chart indicates what you’ll see depending on where you’re using your phone.

	Roaming Indicator	Analog Indicator
Sprint Nationwide PCS Network		
Other Digital / Analog Networks		

Tip: Remember, when you are using your phone off the Sprint Nationwide PCS Network, always dial numbers using 11 digits (1 + area code + number).

Note: You will pay a higher per-minute rate for roaming calls.

Roaming on Digital Networks

When you’re roaming on digital networks,your call quality and security will be similar to the quality you receive when making calls on the enhanced Sprint Nationwide PCS Network.You may not be able to access certain features,such as PCS Vision.

Roaming on Analog Networks

When you roam on analog networks,you will experience a similar quality provided by other analog carriers today.Although some features,such as PCS Vision and PCS Voice Command,will be unavailable,you can still make and receive calls and access voicemail. You will experience a few differences:

- ▶ You are more likely to experience static,cross-talk,fade-out,and dropped calls.
- ▶ Some features which are standard on the enhanced Sprint Nationwide PCS Network,such as call waiting, PCS Vision,and direct international dialing,are unavailable.
- ▶ Though callers can leave voicemail messages while you are roaming,you will not receive notification until you return to the Sprint Nationwide PCS Network.While roaming,you can periodically check your voicemail for new messages by dialing 1+area code+your PCS Phone Number.Press  when you hear your greeting and enter your pass code at the prompt.
- ▶ There are security and privacy risks (eavesdropping and cloning) that exist with conventional analog services today.
- ▶ Your battery needs recharging sooner when you use your phone for analog roaming.

Note: If you’re on a call when you leave the Sprint Nationwide PCS Network and enter an area where roaming is available (whether digital or analog), your call is dropped. If your call is dropped in an area where you think PCS Service is available, turn your phone off and on again to reconnect to the Sprint Nationwide PCS Network.

Note: When using your phone in analog mode, the handset may feel warm. This behavior is normal for analog operation.

Setting Your Phone's Roam Mode

Your PCS Phone allows you to control your ability to roam. By using the **Roaming** menu option, you can determine which signals your phone accepts.

Set Mode

Choose from three different settings on your phone to control your roaming experience:

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Roaming**, press  (**OK**) or  (**Select**).
4. Select **Set Mode**, press  (**OK**) or  (**Select**).
5. Select "Sprint Only", "Automatic" or "Analog Only" with the Navigation key.
 - **Sprint Only**: This setting allows you to access the enhanced Sprint Nationwide PCS Network only and prevents roaming on other networks.
 - **Automatic**: This setting seeks PCS Service. When PCS Service is unavailable, the phone searches for an alternate system.
 - **Analog Only**: This setting forces the phone to seek an analog roaming system. The previous setting (Sprint Only or Automatic) is restored the next time the phone is turned on.
6. To save, press  (**OK**) or  (**Select**).

Controlling Roaming Charges Using Call Guard

In addition to the roaming icon, Call Guard alerts you when roaming charges apply. This feature makes it easy to manage your roaming charges by reminding you when you make or receive roaming calls. It also requires you to take an additional step before placing or answering a roaming call. This additional step is not required when you make or receive calls while on the enhanced Sprint Nationwide PCS Network.

To Turn Call Guard On or Off:

1. Press  (**Menu**) to access the main menu.
2. Select **Settings**, press  (**OK**) or  (**Select**).
3. Select **Roaming**, press  (**OK**) or  (**Select**).
4. Select **Call Guard**, press  (**OK**) or  (**Select**).
5. Select "On" or "Off" with the Navigation key.
6. To save, press  (**OK**) or  (**Select**).

To Place Roaming Calls With Call Guard On:

1. From standby mode, dial 1 + area code + the seven-digit number and press . (You can also initiate a call from the Internal Phone Book, Call History, or Messaging.)
2. Select **Roam Call** ().

To Answer Incoming Roaming Calls With Call Guard On:

1. Press .
2. A message will appear notifying you that roaming charges will apply. Select **Answer** ().

Remember if the Call Guard feature is set to **On**, you need to take extra steps to make and receive roaming calls even if you have selected the **Analog** setting (see page 60).

Navigating Through Menus

In This Section

▶ **Menu Navigation**

▶ **Menu Structure**

▶ **Viewing the Menus**

This section is a road map to using your PCS Phone. Every function and feature can be accessed through an onscreen menu. Take a few moments to learn your way around and you'll find your phone easier to use.

Menu Navigation

The navigation key on your PCS Phone allows you to scroll through menus quickly and easily. The scroll bar at the right of the menu keeps track of your position in the menu at all times.

To navigate through a menu, simply press the navigation key up or down. If you are in a first-level menu, such as **Settings**, you may also navigate to the next or previous first-level menu by pressing the navigation key right or left.

Menu Structure

Selecting Menu Items

As you navigate through the menu, menu options are highlighted. Select any numbered option by simply pressing the corresponding number on the phone's keypad. You may also select any item by highlighting it and pressing **OK**.

For example, if you want to view your last incoming call:

- 1. Press **Menu** to access the main menu.
- 2. Select **Recent Calls**, press **OK** (**OK**) or **Select**.
- 3. Select **Outgoing Calls**, press **OK** (**OK**) or **Select**. If you have received any calls, they are displayed on the screen.

Backing Up Within a Menu

To go to the previous menu:

- Press **BACK**.

To return to standby mode:

- Press **END/ID**.

Viewing the Menus

Menu Diagram

The following list outlines your phone's menu structure.

[SAMPLE MENU]

Recent Calls

- Outgoing Calls
- Incoming Calls
- Missed Calls
- Erase History
- Outgoing Calls/Incoming Calls/Missed Calls/All Calls

Phone Book

- Find Name
- Add New Entry
- My Phone #
- Speed Dial #'s
- Voice Names
- Long Phone #'s
- Services
- Phone book Status
- Erase Phone book

Messaging

- Compose
- Inbox
- Outbox
- Sent Folder
- Drafts Folder
- Quick Notes
- Settings

Voice Mail

- Call Voicemail
- Clear Icon

Games

- Bejeweled
- Bowling
- Football

Tools

- Datebook
- Alarm Clock
- Calculator
- World Clock
- Stopwatch/Timer

Voice Memo

Shortcuts

Settings

Sounds	Volume/Ringer Types/Alerts/Tone
Display	Menu Display/Standby Display/Assign Keys/ Backlight Control/Greetings/Contrast/Font Size/ Time and Date/Sleep Mode
Roaming	Set Mode/Call Guard
Location	
Security	Lock Phone/Change Lock Code/Phonebook Lock/ Erase Phonebook/Restrict Calls/Limit Use/Master Reset/ Master Clear
Others	Language/Answer Options/Speed Dial/Abbrev. Dial/ Auto Redial/Airplane Mode/TTY Settings/Ph.Book Match
Phone Info.	My Phone Number/Icon Glossary/Version

Managing Call History

In This Section

► Viewing History

The Call History keeps track of incoming calls, calls made from your PCS Phone, and missed calls. This section guides you through accessing and making the most of your Call History.

Viewing History

You'll find the Call History feature very helpful. It is a list of the last 20 phone numbers (or Internal Phone Book entries) for calls you placed, accepted, or missed. Call History makes redialing a number fast and easy. It is continually updated as new numbers are added to the beginning of the list and the oldest entries are removed from the bottom of the list.

Each entry contains the phone number (if it is available) and Internal Phone Book entry name (if the phone number is in your Internal Phone Book). Duplicate calls (same number and type of call) may only appear once on the list.

To view a Call History entry:

1. Press  (**Menu**) to access the main menu.
2. Select **Recent Calls**, press  (**OK**) or  (**Select**).
3. Select one of the following options.
 - **Outgoing Calls**
 - **Incoming Calls**
 - **Missed Calls**
 - **Erase History**
4. Press  (**OK**) or  (**Select**).

Outgoing Calls

Displays information about the twenty most recently dialed numbers.

Saves the numbers and places call by simply pressing .

1. Press  (**Menu**) to access the main menu.
2. Select **Recent Calls**, press  (**OK**) or  (**Select**).
3. Select **Outgoing Calls**, press  (**OK**) or  (**Select**).
4. If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.
5. To view outgoing call details, press the Navigation Key.

Tip: The detail includes date, time, and phone number of outgoing calls.

6. Press  (**OK**) or  (**Store**) again to save it or press  (**Delete**) to delete it.

Tip: "Phone # is already saved in phone book" or "Move to phone book save mode?" will appear.

Note: After the twenty outgoing call, the oldest call will automatically be erased from the history.

Incoming Calls

Displays information of the twenty most recently answered calls.

Saves the numbers and places calls by simply pressing .

1. Press  (**Menu**) to access the main menu.
2. Select **Recent Calls**, press  (**OK**) or  (**Select**).
3. Select **Incoming Calls**, press  (**OK**) or  (**Select**).
4. If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.
5. To view incoming call details, press the Navigation Key.

Tip: Call details include date, time and phone number.

6. Press  (**OK**) or  (**Store**) again to save it or press  (**Delete**) to delete it.

Tip: "Phone # is already saved in phone book" or "Move to phone book save mode?" will appear.

Note: After the tenth incoming call, the oldest call will automatically be erased from the history.

Missed Calls

Displays information of the 10 most recently missed calls.

Place a call to a missed call number by simply pressing .

1. Press  (**Menu**) to access the main menu.
2. Select **Recent Calls**, press  (**OK**) or  (**Select**).
3. Select **Missed Calls**, press  (**OK**) or  (**Select**).

4. If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.
5. To view missed call details, press the Navigation Key.

Tip: Call details include date, time and phone number.

6. Press **OK** (OK) or **Store** again to save it or press **Delete** to delete it.

Tip: "Phone # is already saved in phone book" or "Move to phone book save mode?" will appear.

Note: After the tenth missed call, the oldest call will automatically be erased from the history.

Erase History

Outgoing Calls

1. Press **Menu** to access the main menu.
2. Select **Recent Calls**, press **OK** (OK) or **Select**.
3. Select **Erase History**, press **OK** (OK) or **Select**.
4. Select **Outgoing Calls**, press **OK** (OK) or **Select**.
5. Read the message, and press **OK** (OK) or **OK**.
6. Select "Yes" or "No" with the Navigation key.
7. To save, press **OK** (OK) or **Yes**.

Incoming Calls

1. Press **Menu** to access the main menu.
2. Select **Recent Calls**, press **OK** (OK) or **Select**.
3. Select **Erase History**, press **OK** (OK) or **Select**.
4. Select **Incoming Calls**, press **OK** (OK) or **Select**.
5. Read the message, and press **OK** (OK) or **OK**.
6. Select "Yes" or "No" with the Navigation key.
7. To save, press **OK** (OK) or **Yes**.

Missed Calls

1. Press **Menu** to access the main menu.
2. Select **Recent Calls**, press **OK** (OK) or **Select**.
3. Select **Erase History**, press **OK** (OK) or **Select**.
4. Select **Missed Calls**, press **OK** (OK) or **Select**.
5. Read the message, and press **OK** (OK) or **OK**.
6. Select "Yes" or "No" with the Navigation key.
7. To save, press **OK** (OK) or **Yes**.

All Calls

1. Press **Menu** to access the main menu.
2. Select **Recent Calls**, press **OK** (OK) or **Select**.
3. Select **Erase History**, press **OK** (OK) or **Select**.
4. Select **All Calls**, press **OK** (OK) or **Select**.
5. Read the message, and press **OK** (OK) or **OK**.
6. Select "Yes" or "No" with the Navigation key.
7. To save, press **OK** (OK) or **Yes**.

Using the Internal Phone Book

In This Section

- ▶ Internal Phone Book Entry Options
 - ▶ Entering Text
 - ▶ Adding a New Internal Phone Book Entry
 - ▶ Finding Internal Phone Book Entries
 - ▶ My Phone #
 - ▶ Speed Dial #'s
 - ▶ Voice Names
 - ▶ Long Phone #'s
 - ▶ Services
 - ▶ Phone Book Status
 - ▶ Erase Phone Book
-

Now you know the basics that make it easier to stay in touch with people and information. This section helps you make the most of your contacts and time when you are trying to connect with the important people in your life.

Internal Phone Book Entry Options

To access an Internal Phone Book Entry's options, display the entry. To select an option, highlight it and press **OK**.

- ▶ **[Add number]** to add a phone number to the entry.
(See "Adding a New Internal Phone Book Entry" on page 79)
- ▶ **[Name]** to add a name to the entry.
- ▶ **[Address]** to add an address to the entry.

Tip: You can view the next entry by pressing the navigation key right or view the previous entry by pressing the navigation key left.

Entering Text

Various text entry methods make it easy for you to enter names, numbers, and text messages on your phone. You can enter all characters (letters, numbers, and symbols) using the standard tap method. Other text modes let you easily enter numbers and symbols, or insert text already stored on your phone. Finally, a predictive text mode lets you enter text messages with a minimum of keypresses.

Selecting a Character Input Mode

To activate a text mode, press **Options** from any text entry screen and select the text mode from the Entry Method menu:

1. When you display a screen where you can enter text, press **Options**.
2. Select a character input mode:
 - **iTAP** Let the phone predict each word as you enter it, then choose the word from a list.
 - **Tap Method** Enter characters one at a time by pressing the key for the letter, number, or symbol. This is the standard mode for entering text on your phone.
 - **Numeric** Enter only the number that appears on each key.
 - **Symbol** Enter symbols only.
 - **Browse** Browse through your phonebook lists to select a name or number to enter.

Note: The text mode you select remains active until you change it by selecting another mode.

Tap Method

Tap method is the default standard mode for entering text on your phone. To activate tap method from any text entry screen, press **Options** and select the Tap Method menu option. To enter text using the tap method:

- **Press a number key one or more times** cycle through the characters associated with the key and select the character you want.
- **Continue to press number keys** enter the rest of the characters in the text message.
- Press **OK** (**OK**) or **OK** (**OK**) accept and store the text when you are finished.

General Text Entry Rules

Use the keypad to enter letters, numbers, symbols, and other characters with the tap method. Press the same key repeatedly to cycle through available characters

- Press a number key as many times as necessary to enter the desired character.
- Press and hold a number key to cycle between tap method and numeric text entry mode.
- **#** Space
- ***** Switch between lowercase to uppercase letters
- If you do not press a key for two seconds, the character in the block cursor is accepted, and the cursor moves to the next position.
- The first character of every sentence is capitalized unless you manually change it. (Press ***** to force the character to lowercase while it is highlighted by the block cursor.)

Character Chart

Use this chart as a guide for entering spaces, numbers, letters, symbols, and other characters with the tap method.

- ▶ **1** ., @ 1 ? ! * # /
- ▶ **2** A B C 2 Å Ä Â Ç
- ▶ **3** D E F 3 È Ê Ë
- ▶ **4** G H I 4 Í
- ▶ **5** J K L 5
- ▶ **6** M N O 6 Ñ Ò Ó Ô Õ
- ▶ **7** P Q R S 7
- ▶ **8** T U V 8 Ù Ú Û
- ▶ **9** W X Y Z 9
- ▶ **0** 0

Entering Symbol

Your phone provides an alternate way to find and enter symbol characters in a text message. You can view and select from a variety of available symbols. To activate symbol mode from any text entry screen, press (**Options**) and select the Symbol menu option. To enter a symbol in symbol mode:

- **Move cursor with navigation key** and select the symbol you want.
 - . , ; : ! - @ ' " ? + * = / \ \$ & # () ^ _ ` < > % _ [] :) SP ¶ { }
- Press (**OK**) or (**Select**) accept symbol.

Predictive Text Entry with iTAP™ Software

iTAP™ software provides a predictive text entry method that lets you enter the letters of a word using only one keypress per letter. You must activate iTAP software prior to entering letters. You can do this from any text entry screen by pressing (**Options**) to open the Entry Method menu and selecting the iTAP menu option.

- **Press a number key one time** enter the first letter of the word. The letters associated with the key you pressed are shown at the bottom of the display.

- **Press number keys** enter the rest of the word. Alternative words and letter combinations are shown at the bottom of the display based on the keys you press. These word choices are updated with each keypress.
- **When you have entered all the letters of the word, press navigation key** locate and highlight the word you want.
- Press (**OK**) or (**Select**) add the highlighted word to the text area at the top of the display. A space is automatically inserted after the word.

Enter Novel Words

You may enter a word that is not in the iTAP software dictionary. If you enter all the letters of a word but the word is not displayed:

- Press (**BACK**) **one or more times** delete one or more letters until you see a letter combination that matches the start of the word.
- **Press navigation key** highlight the letter or letter combination.
- Press (**OK**) or (**Select**) shift the text entry cursor to the left and “lock” the selected portion of the word.
- **Continue entering letters and highlighting letter combinations** spell the word.

Punctuation

The iTAP software automatically adds a space after each word. When you enter punctuation, this space is removed. To enter punctuation with iTAP software:

- Press or enter punctuation or other characters.

Capitalization

The first word of a sentence is automatically capitalized, with following words in lowercase. To set or adjust character capitalization with iTAP software:

- Press change the words to initial character capitalized, all uppercase characters, or all lowercase characters.

Enter Numbers

To enter a number with iTAP software:

- **Enter the first digit and then highlight it** put the iTAP software in number entry mode.
- **Press number keys** add digits to the number.
- **Press** **OK** (OK) or **↩** (Select) enter the number at the insertion point.

Delete Letters and Words

Place the cursor to the right of the text that you want to delete, and then do the following:

- **Press** **BACK** delete one letter at a time.
- **Continue to hold** **BACK** delete the entire message.

Adding a New Internal Phone Book Entry

Your PCS Phone can store up to **300** Internal Phone Book entries. Phone book entries can store up to a total of **300** phone numbers and the entry's name can contain sixteen characters.

To add a new entry:

1. Press **⏮** (Menu) to access the main menu.
2. Select **Phone Book**, press **OK** (OK) or **↩** (Select).
3. Select **Add New Entry**, press **OK** (OK) or **↩** (Select).
4. Enter a "Name" to display the name editor and enter a name. To change the input mode, press **⏮** (Options) and Press **↩** (Browse) search the name from "Phonebook". Press **OK** (OK) or **↩** (OK) to store the name.
5. Enter a "No." to enter a phone number. To press **⏮** (Options) select either "Hard Pause" or "2Sec. Pause" (Hard Pauses are displayed as a "P" and 2Sec. Pause as a "T"), press **OK** (OK) or **↩** (OK) to store the phone number.
6. The Phone # will appear next to a list of icons, press **OK** (OK) or **↩** (Select). The name of the icon is displayed above the list. Use the Navigation key to choose the type of # you're adding, as indicated by the icon then use the Navigation key, press **OK** (OK) or **↩** (Select).
7. Enter a speed number. Use the Navigation key to choose the speed number then, press **OK** (OK) or **↩** (Select).
8. Press **⏮** (Done) to move "Entry Form".
9. Use the Navigation key to scroll through more options for the entry (Ringer ID, Email, Add more phone number).
10. To store the entry, press **⏮** (Done) "Stored" will be displayed.

Finding Internal Phone Book Entries

There are several ways to display your Internal Phone Book entries. Follow the steps outlined in the sections below to display entries from the Internal Phone Book menu.

Find Name

You can search Internal Phone Book entries for phone numbers that contain a specific string of numbers.

To find a phone number:

1. Press  (**Menu**) to access the main menu.
2. Select **Phone Book**, press  (**OK**) or  (**Select**).
3. Select **Find Name**, press  (**OK**) or  (**Select**).
4. Enter the name or part of the name, All matched entries will be displayed. Use the navigation key to select the entry.
5. Press  (**OK**) or  (**View**).
6. To display the Internal Phone Book entry that contains the phone number and display details information and press  (**Edit**). To edit the phone number.
7. Press  (**Options**) to select submenu, press  (**OK**) or  (**Select**).
 - **New** : Adding a new internal phone book entry.
 - **Edit** : To change the entry's phone number, label, name, entry number, secret mode, speed dial number.
 - **Delete** : To delete the entry.
 - **Send Message** : To send the message.
 - **Secret** : To make an entry secret.
 - **Prepend** : To add number to the beginning of the phone number.
 - **Add Digits** : To add a phone number to the entry.
 - **Attach Number**
 - **Set Primary**
8. To call the selected number, press  (**TALK**) .

My Phone

To display your phone number.

1. Press  (**Menu**) to access the main menu.
2. Select **Phone Book**, press  (**OK**) or  (**Select**).
3. Select **My Phone #**, press  (**OK**) or  (**Select**).
4. To display your phone number.
5. To return to the previous page, press  (**OK**) or  (**OK**).

Speed Dial #'s

1. Press  (**Menu**) to access the main menu.
2. Select **Phone Book**, press  (**OK**) or  (**Select**).
3. Select **Speed Dial #'s**, press  (**OK**) or  (**Select**).
4. Select the empty location, press  (**OK**) or  (**Assign**).
5. Select the phone number from "Phone Book" and press  (**OK**) or  (**Select**).
6. To remove "Speed Dial #'s", select the assign location press  (**Remove**).
7. Select "Yes" or "No" with the Navigation key.
8. To save, press  (**OK**) or  (**Yes**).

Voice Names

1. Press  (**Menu**) to access the main menu.
2. Select **Phone Book**, press  (**OK**) or  (**Select**).
3. Select **Voice Names**, press  (**OK**) or  (**Select**).
4. Select the "Add Voice Name", press  (**OK**) or  (**Select**).
5. Select the phone number from "Phone Book" and press  (**OK**) or  (**Select**).
6. Appears message "press voice key then say name" then press "Voice Key". "say name now" follow the voice prompts to user saying voice name.
7. Press  (**Edit**) to select submenu.
 - **Record** : To re-record voice name.
 - **Delete** : To delete recorded voice name.

Long Phone #'s

1. Press (Menu) to access the main menu.
2. Select **Phone Book**, press (OK) or (Select).
3. Select **Long Phone #'s**, press (OK) or (Select).
4. Enter long phone #'s name and press (OK) or (OK).
5. Enter long phone #'s phone number with pause and press (OK) or (OK).
6. To store the entry, press (Done) "Stored" will be displayed.

Services

1. Press (Menu) to access the main menu.
2. Select **Phone Book**, press (OK) or (Select).
3. Select **Services**, press (OK) or (Select).
4. Select one of the following options with the navigation key and press (OK) or (Select).
 - Cust. Solutions / Dir. Assistance / Account Info. / Sprint Operator / Voice Command
5. Press (Call) to connecting call.

Phone Book Status

1. Press (Menu) to access the main menu.
2. Select **Phone Book**, press (OK) or (Select).
3. Select **Phone book Status**, press (OK) or (Select).
4. Display phone book storage status.
5. To return to the previous page, press (OK) or (OK).

Erase Phone Book

1. Press (Menu) to access the main menu.
 2. Select **Phone Book**, press (OK) or (Select).
 3. Select **Erase Phone Book**, press (OK) or (Select).
 4. Enter Unlock Code.
-
- Note:** The default unlock code is "1234".
-
5. Select "Yes" or "No" with the Navigation key.
 6. To save, press (OK) or (Yes).

Personal Organizer

In This Section

- ▶ **Datebook**
 - ▶ **Alarm Clock**
 - ▶ **Calculator**
 - ▶ **World Clock**
 - ▶ **Stopwatch/Timer**
-

Your PCS Phone is equipped with several personal information management features that help you manage your busy lifestyle. These features turn your phone into a time management planner that helps you keep up with your contacts, schedules, and commitments. It takes productivity to a whole new level.

Datebook

The datebook is a calendar that lets you schedule and organize events such as appointments and meetings. You can set the datebook to send a reminder alarm for specific events.

Adding a Datebook Event

1. Press **⏮** (**Menu**) to access the main menu.
2. Select **Tools**, press **OK** (**OK**) or **⏮** (**Select**).
3. Select **Datebook**, press **OK** (**OK**) or **⏮** (**Select**).
4. Press **⏮** (**View**) to select “New Event”, press **OK** (**OK**) or **⏮** (**Select**).
5. Enter a “Title” to display the title editor and enter a title.
To change the input mode, press **⏮** (**Options**) and press **⏮** (**Browse**) search the title from “QuickTitles”. Press **OK** (**OK**) or **⏮** (**OK**) to store the title.
 - QuickTitle : Meeting / Appointment / Presentation / Conference Call / Breakfast / Lunch / Dinner / Anniversary / Birthday / Flight / Party.
6. Enter a “Start” to display the time editor and enter a time.
Press **OK** (**OK**) or **⏮** (**Done**) to store the time.
 - Navigation Key (Left/Right) : Move input area.
 - Navigation Key (Up/Down) : Select Hour / Minute / am, pm, 24hr.
7. Scroll to other fields and enter information as necessary.
You can set duration, date, repeat interval, and reminder alarm.
 - Duration : None / 30 min / 1 hour / 2 hour / 3 hour / 4 hour / Rest of day / All day / Custom.
 - Date : Navigation Key (Left/Right) move input area. Navigation Key (Up/Down) select Day / Month / Year.
 - Repeat : None / 30 min / 1 hour / 2 hour / 3 hour / 4 hour / Rest of day / All day / Custom.
 - Date : None / Daily / Weekly / Monthly Day / Monthly Date / Yearly.
 - Repeat : None / 30 min / 1 hour / 2 hour / 3 hour / 4 hour / Rest of day / All day / Custom.

- Alarm : Off / 5 min before / 10 min before / 30 min before / 1 hour before / 1 day before / 1 week before / Custom.

8. To save, press **OK** (**OK**) or **⏮** (**Done**).

Changing Event Information

1. Press **⏮** (**Menu**) to access the main menu.
2. Select **Tools**, press **OK** (**OK**) or **⏮** (**Select**).
3. Select **Datebook**, press **OK** (**OK**) or **⏮** (**Select**).
4. Press **⏮** (**View**) to scroll to the you want to change, press **OK** (**OK**) or **⏮** (**View**).
5. Press **⏮** (**Options**) to select submenu, press **OK** (**OK**) or **⏮** (**Select**).
 - Go to Today
 - New
 - Edit
 - Delete
 - Copy
 - Setup
6. Select **Edit**, press **OK** (**OK**) or **⏮** (**Select**).
7. Enter new information.
Press **OK** (**OK**) or **⏮** (**Done**) to store the event.

Alarm Clock

1. Press **⏮** (**Menu**) to access the main menu.
2. Select **Tools**, press **OK** (**OK**) or **⏮** (**Select**).
3. Select **Alarm Clock**, press **OK** (**OK**) or **⏮** (**Select**).
4. To select “New Alarm”, press **OK** (**OK**) or **⏮** (**Select**).
5. Enter a “Name” to display the title editor and enter a title.
To change the input mode, press **⏮** (**Options**). Press **OK** (**OK**) or **⏮** (**OK**) to store the name.
6. Enter a “Time” to display the time editor and enter a time.
Press **OK** (**OK**) or **⏮** (**Done**) to store the time.
 - Navigation Key (Left/Right) : Move input area.

- Navigation Key (Up/Down) :Select Hour / Minute / am,pm,24hr.
7. Scroll to other fields and enter information as necessary.
You can set ring,volume,repeat interval,and reminder alarm.
- Ring :Badineri / Big Ben / Blues Riff / Bumblebee / Dance / Falling / Flying Carpet / Gliss / Invention / Pop / Rag Tag / Rock It / Rock-a-billy / Samba / Smooth Music / Irumpet Call / Vibrate.
 - Volume : Adjust the ringer volume with the Navigation key. (Level 0~7)
 - Repeat :Once / Daily.
8. To save, press (Done).

Changing Alarm Information

1. Press (Menu) to access the main menu.
2. Select **Tools**, press (OK) or (Select).
3. Select **Alarm**, press (OK) or (Select).
4. Scroll to the you want to change
Press (Enable/Disable) or Press (Options) to select submenu, press (OK) or (Select).
 - New
 - Edit
 - Delete
 - Delete All
 - Auto Snooze
5. Press (Done) to store the alarm.

Calculator

To access the calculator:

1. Press (Menu) to access the main menu.
2. Select **Tools**, press (OK) or (Select).
3. Select **Calculator**, press (OK) or (Select).
4. Enter a number.
5. To select an arithmetic option,press the navigation key in the direction indicated on the display.
6. Press (OK) to calculate the equation.

Follow the instructions below to calculate $(8+5*6)/4-2.5$

-
- ▶ Input .
 - ▶ Move the Navigation key upward .
 - ▶ Input .
 - ▶ Move the Navigation key leftward .
 - ▶ Input .
 - ▶ Move the Navigation key rightward .
 - ▶ Input .
 - ▶ Move the Navigation key downward .
 - ▶ Input and press the to input (.).
 - ▶ Press , .
-

7. To reset,press (CE).

Tip: :X :- :/ :+ :. :CE :=.

Calculator Options

- Press (Options) to select submenu,press (OK) or (Select).
 - +/- to change the entry's sign (positive/negative).
 - \$ to calculate the exchange rate.
 - MS to store the value in memory.
 - MC to clear the value stored in memory.
 - MR to replace the displayed value with the value stored in memory.

Notifies you of the time in a specific preprogrammed city.

- 1. Press (Menu) to access the main menu.
- 2. Select **Tools**, press (OK) or (Select).
- 3. Select **World Clock**, press (OK) or (Select).
- 4. The world map is to be displays with the city,its date and time and summer time.
- 5. Use the Navigation key to select another city.
 - Samoa, Honolulu, Anchorage, San Francisco/LA, Denver, Chicago, New York, Caracas/La Paz, Sao Paulo, Reykjavik, London, Paris/Berlin, Athens, Moscow, Kabul, New Dehli, Bangkok, Hong Kong, Seoul/Tokyo, Sydney, Solomon, Wellington.
- 6. To return to the previous page, press .

Stopwatch/Timer

- 1. Press (Menu) to access the main menu.
- 2. Select **Tools**, press (OK) or (Select).
- 3. Select **Stopwatch/Timer**, press (OK) or (Select).
- 4. Press select “Stopwatch” or “Timer” .
- 5. Enter a “Timer” to display the time editor and enter a time.
Press (OK) or (Done) to store the time.
 - Navigation Key (Left/Right) : Move input area.
 - Navigation Key (Up/Down) : Select hh / mm / ss.
- 6. To select an “Stopwatch/Timer” option, press the navigation key in the direction indicated on the display.
- 7. To return to the previous page, press .

Tip: : Reset : Pause : Stop : Start

Using Your Phone’s Voice Services

In This Section

- ▶ Recording Voice Memos
- ▶ Play Voice Memo
- ▶ Erasing Voice Memos

This section explains the features associated with your phone’s Voice Services.The easy-to-follow instructions explain how to use voice-activated dialing and how to record and manage voice memos.

Recording Voice Memos

To record a voice memo:

1. Press  (**Menu**) to access the main menu.
2. Select **Voice Memo**, press  (**OK**) or  (**Select**).
3. To select “New Voice Memo”, press  (**OK**) or  (**Select**).
4. Read the message, and press and hold voice key while to recording voice memo. After the beep, starts recording.
5. To release the voice key, automatically save voice memo.

Play Voice Memo

To play the voice memos you have recorded:

1. Press  (**Menu**) to access the main menu.
2. Select **Voice Memo**, press  (**OK**) or  (**Select**).
3. To select you want to play voice memo, press  (**OK**) or  (**Play**).
4. To return to the previous page, press  (**OK**) or  (**OK**).

Erasing Voice Memos

To erase all voice memos:

1. Press  (**Menu**) to access the main menu.
2. Select **Voice Memo**, press  (**OK**) or  (**Select**).
3. To select you want to erase voice memo, Press  (**Options**) to select submenu, press  (**OK**) or  (**Select**).
 - **New**
 - **Delete**
 - **Delete All**
 - **Play Again**
 - **Save**
4. Select **Delete** or **Delete All**, press  (**OK**) or  (**Select**).
5. Select “Yes” or “No” with the Navigation key.
6. To save, press  (**OK**) or  (**Yes**).

Using Your Phone's Games

In This Section

► **Bejeweled**

► **Bowling**

► **Football**

This section explains the features associated with your phone's Game. You can play games on your phone between phone calls. An incoming call, message, alarm, or alert automatically ends the game.

Bejeweled

Play a Game

Swap adjacent gems to create row of 3 or more identical gems.

1. Press  (Menu) to access the main menu.
2. Select **Games**, press  (OK) or  (Select).
3. Select **Bejeweled**, press  (OK) or  (Select).
4. Start Bejeweled game and select game level  ~  key.
 - **Select jewel**, press  (OK).
 - **Move jewel**, press navigation key.
5. Press  (Game Pause) to access the main game menu.
6. To end the game, press .

Game Menus

- ▶ 1.Normal
- ▶ 2.Advanced
- ▶ 3.Expert
- ▶ 4.Help
- ▶ 5.Options
 - **Sound is ON/OFF**
 - **Vibrate is ON/OFF**
 - **Exit**
- ▶ 6.Exit

Bowling

Play a Game

1. Press  (Menu) to access the main menu.
2. Select **Games**, press  (OK) or  (Select).
3. Select **Bowling**, press  (OK) or  (Select).
4. Start Bejeweled game and select “Game” or “Series”.
 - **Controls** : Press L/R navigation key to choose the starting position of your shot.You may also use 4 to move left and 6 to move right. Press the  (OK) or 5 to operate the shot meters.
 - **Power Meter** :The power meter appears on the right side of the screen. Press  (OK) or 5 to start the meter, and press again to set the power. For optimum power, stop the power meter between the two guide arrows.To overpower, stop the meter near the very top.
 - **Aim Meter** :After setting your power, the aim meter will move back and forth across the lane. Press  (OK) or 5 to stop the aim meter in the direction you want your shot to roll.
 - **Spin Meter** :The spin meter moves back and forth at the top of the screen.To spin left, press  (OK) or 5 when the meter is left of the middle mark.To spin right, press when the meter is right of the middle mark. For no spin, press when the meter is on the middle mark.
5. To end the game, press  or .

Game Menus

- ▶ Game
- ▶ Series
- ▶ Help
- ▶ Reset
- ▶ Turn Effects
 - **Turn Effects ON**
 - **Turn Effects OFF**
- ▶ Exit

Play a Game

1. Press  (Menu) to access the main menu.
2. Select **Games**, press  (OK) or  (Select).
3. Select **Football**, press  (OK) or  (Select).
4. Start Football game and select “1-Player” or “2-Player”.
 - **How To Play** : Use the navigation keys to move your player and avoid the defenders to score. You may also use the “2”, “4”, “6”, and “8” keys to move. On 4th down, press “5” to punt or kick a field goal. To pass, press “5”. Passing can be enabled by turning the feature “On” from the “Options” screen.
5. To end the game, press  or .

Game Menus

- ▶ 1-Player
 - **Select CPU Level 1~10**
 - **Start Game**
 - **Main Menu**
- ▶ 2-Player
 - **Select Game Level Hard/Easy**
 - **Start Game**
 - **Main Menu**
- ▶ Options
 - **Sound is ON/OFF**
 - **Passing is ON/OFF**
 - **High Score**
 - **Credits**
 - **Main Menu**
- ▶ HowTo Play
- ▶ Exit

Using Your Phone's Shortcuts

In This Section

- ▶ **Creating a Shortcut**
- ▶ **Editing a Shortcut**
- ▶ **Using Shortcuts**
- ▶ **Delete a Shortcut**

This section explains the features associated with your phone's Shortcuts. Your phone includes several pre-programmed shortcuts. You can create additional shortcuts, if you like, to mark frequently used menu items.

Creating a Shortcut

The following shortcuts are pre-programmed in your phone. You cannot edit or delete these shortcuts.

1. Press  (**Menu**) to access the main menu.
2. Select **Shortcuts**, press  (**OK**) or  (**Select**).
3. To select “New Shortcuts”, press  (**OK**) or  (**Select**).
4. Read the message.
 - To assign a new Shortcut... (STEP1) Scroll to the item you want as a shortcut. (STEP2) Press&hold  when item is highlighted. (STEP3) To access shortcuts... press&hold  from idle screen.
5. Scroll to the item you want as a shortcut.
6. Press&hold  when item is highlighted.
7. Display “Assign shortcut for:...”.
8. Select “Yes” or “No” with the Navigation key, press  (**OK**) or  (**Yes**).
9. To enter shortcut name and key number, press  (**Done**) to save it.

Editing a Shortcut

1. Press  (**Menu**) to access the main menu.
2. Select **Shortcuts**, press  (**OK**) or  (**Select**).
3. To select you want to edit shortcut, press  (**Options**) to select submenu, press  (**OK**) or  (**Select**).
 - **New**
 - **Edit**
 - **Reorder List**
 - **Delete**
 - **Delete All**
4. Select **Edit**, press  (**OK**) or  (**Select**).
5. To re-enter shortcut name and key number, press  (**Done**) to save it.

Using Shortcuts

1. Press  (**Menu**) to access the main menu.
2. Select **Shortcuts**, press  (**OK**) or  (**Select**).
3. To select shortcut, press  (**Go To**).

Delete a Shortcut

1. Press  (**Menu**) to access the main menu.
2. Select **Shortcuts**, press  (**OK**) or  (**Select**).
3. To select you want to delete shortcut, press  (**Options**) to select submenu, press  (**OK**) or  (**Select**).
 - **New**
 - **Edit**
 - **Reorder List**
 - **Delete**
 - **Delete All**
4. Select **Delete** or **Delete All**, press  (**OK**) or  (**Select**).
5. Select “Yes” or “No” with the Navigation key.
6. To save, press  (**OK**) or  (**Yes**).

Using PCS Service Features

PCS Service Features: The Basics

In This Section

- ▶ Using Voicemail
 - ▶ Using Caller ID
 - ▶ Responding to Call Waiting
 - ▶ Making a Three-Way Call
 - ▶ Using Call Forwarding
-

Now that you've mastered your phone's fundamentals, it's time to explore the calling features that enhance your PCS Service.

Using Voicemail

Setting Up Your Voicemail

All unanswered calls to your PCS Phone are automatically transferred to voicemail, even if your phone is in use or turned off. Therefore, you will want to set up your PCS Voicemail and personal greeting as soon as your PCS Phone is activated.

To set up voicemail:

1. Press and hold **1** .
2. Follow the system prompts to create your pass code, record your greeting, record your name announcement, and choose whether to activate One-Touch Message Access (a feature that lets you press one key to access messages and bypasses the need for you to enter your pass code).

Note: The voicemail setup process may vary in certain Affiliate areas.

Voicemail Notification

There are several ways your PCS Phone alerts you:

- ▶ By displaying a message on the screen.
- ▶ By sounding the assigned ringer type.
- ▶ By the LED blinking red.
- ▶ By displaying  at the top of your screen for voicemail messages.

Note: Your phone accepts messages even when it is turned off. However, you are only notified of new messages when your phone is turned on and you are in a PCS Service Area.

Retrieving Your Voicemail Messages

You can review your messages directly from your PCS Phone or from any other touch-tone phone. To dial from your PCS Phone, you can either speed dial your voicemail or use the menu keys.

Using One-Touch Message Access:

- Press **1** . Follow the system prompts.

Using the Menu Keys on Your PCS Phone to Access Your Messages:

1. Press **(Menu)** to access the main menu.
2. Select **Voice Mail**, press **OK** (OK) or **↵** (Select).
3. Select **Call Voicemail**, press **OK** (OK) or **↵** (Select).

Note: You are charged for airtime minutes when you are accessing your voicemail from your PCS Phone.

Using a Phone Other Than Your PCS Phone to Access Messages:

1. Dial your PCS Phone Number.
2. When your voicemail answers, press ***** .
3. Enter your pass code.

Tip: When you call into voicemail you first hear the header information (date, time, and sender information) for the message. To skip directly to the message, press **4** during the header.

Voicemail Button Guide

Here's a quick guide to your keypad functions while listening to voicemail messages. For further details and menu options, see "Voicemail Menu Key" on page 109.

1 	2 ABC	3 DEF
Date/Time	Send Reply	Advance
4 GHI	5 JKL	6 MNO
Replay	Rewind	Forward
7 PQRS	8 TUV	9 WXYZ
Erase	Call Back	Save
*	0 +	#

Voicemail Options

Your PCS Phone offers several options for organizing and accessing your voicemail.

Using Expert Mode

Using the Expert Mode setting for your personal voicemail box helps you navigate through the voicemail system more quickly by shortening the voice prompts you hear at each level.

To turn Expert Mode on or off:

1. Press and hold **1^{END}** to access your voicemail. If your voicemail box contains any new or saved messages, press ***** to access the main voicemail menu.
2. Following the system prompts, press **3^{DEF}** to change your Personal Options.
3. Press **4^{GHI}** for Expert Mode.
4. Press **1^{END}** to turn Expert Mode on or off.

Setting Up Group Distribution Lists

Create up to 20 separate group lists, each with up to 50 customers.

1. Press and hold **1^{END}** to access your voicemail. If your voicemail box contains any new or saved messages, press ***** to access the main voicemail menu.
2. Following the system prompts, press **3^{DEF}** to change your Personal Options.
3. Press **2^{ABC}** for Administrative Options.
4. Press **5^{JKL}** for Group Distribution Lists.
5. Follow the voice prompts to create, edit, rename, or delete group lists.

PCS Callback

Return a call after listening to a message without disconnecting from voicemail.

1. After listening to a message, press **8^{TUV}**.
2. Once the call is complete, you're returned to the voicemail main menu.

Voicemail-to-Voicemail Message

Record and send a voice message to other PCS Voicemail users.

1. From the main voicemail menu, press **2^{ABC}** to send a message.
2. Follow the voice prompts to enter the phone number.
3. Follow the voice prompts to record and send your voice message.

Voicemail-to-Voicemail Message Reply

Reply to a voice message received from any other PCS Voicemail user.

1. After listening to a voice message, press **2^{ABC}**.
2. Follow the voice prompts to record and send your reply.

Voicemail-to-Voicemail Message Forwarding

Forward a voice message, except those marked "Private," to other PCS Voicemail users.

1. After listening to a message, press **6^{MNO}**.
2. Follow the voice prompts to enter the phone number.
3. Follow the voice prompts to record your introduction and forward the voice message.

Voicemail-to-Voicemail Receipt Request

Receive confirmation that your voice message has been listened to when you send, forward, or reply to other PCS users.

1. After you have recorded a message, press **1^{END}** to indicate you are satisfied with the message you recorded.
2. Press **4^{GHI}** to mark receipt requested.
3. Press **1^{END}** to send your voicemail message.

Continue Recording

- Before pressing **1^{END}** to indicate you are satisfied with the message you recorded, press **4^{GHI}** to continue recording.

Extended Absence Greeting

When your phone is turned off or you are off the enhanced Sprint Nationwide PCS Network for an extended period, this greeting can be played instead of your normal personal greeting.

1. From the main voicemail menu, press **3^{DEF}** for Personal Options.
2. Press **3^{DEF}** for Greetings.
3. Press **3^{DEF}** to record an Extended Absence Greeting.

Clearing the Message Icon

Your phone may temporarily continue to display the message icon after you have checked your voice and text messages.

To clear the icon from the display screen:

1. Press **⏮ (Menu)** to access the main menu.
2. Select **Voice Mail**, press **OK (OK)** or **⏮ (Select)**.
3. Select **Clear Icon**, press **OK (OK)** or **⏮ (Select)**.
4. Select “Yes” or “No” with the Navigation key.
5. To save, press **OK (OK)** or **⏮ (Yes)**.

Voicemail Menu Key

- 1st** Listen
 - 1st** Envelope Information
 - 2^{ABC}** Reply
 - 3^{DEF}** Advance 8 Seconds
 - 4^{GHI}** Replay
 - 5^{JKL}** Rewind
 - 6^{MNO}** Forward Message
 - 7^{PQRS}** Erase
 - 8^{TUV}** Callback
 - 9^{WXYZ}** Save
 - 0** Options
- 2^{ABC}** Send a Message
- 3^{DEF}** Personal Options
 - 1st** Notification Options
 - 1st** Phone Notification
 - 2^{ABC}** Numeric Paging to a PCS Phone
 - *** Return to Personal Options Menu
 - 2^{ABC}** Administrative Options
 - 1st** Skip Passcode
 - 2^{ABC}** Autoplay
 - 3^{DEF}** Message Date & Time On/Off
 - 4^{GHI}** Change Passcode
 - 5^{JKL}** Group Distribution List
 - *** Return to Personal Options Menu
- 3^{DEF}** Greetings
 - 1st** Personal Greetings
 - 2^{ABC}** Name Announcement
 - 3^{DEF}** Extended Absence Greeting
 - *** Return to Personal Options Menu
- 4^{GHI}** Expert Mode
- 8^{TUV}** Place a Call
- *** Disconnect

Using Caller ID

Caller ID lets people know who's calling by displaying the number of the person calling.

To block your phone number from being displayed for a specific outgoing call:

1. Press *** 6 MND 7 PQRS**.
2. Enter the number you want to call, and press **TALK**.

Note: To permanently block your number, call Sprint PCS Customer Service Solutions.

Responding to Call Waiting

When you're on a call, Call Waiting alerts you to incoming calls by sounding two beeps. Your phone's screen informs you that another call is coming in and displays the caller's phone number (if it is available and you are in digital mode).

To respond to an incoming call while you're on a call:

- Press **TALK** to put the first caller on hold and answer the second call.
- To switch back to the first caller, press **TALK** again.
- To end both calls, press **END/D** to end the first call, wait for the second call to ring you back, then press **END/D** again.

Tip: For those calls where you don't want to be interrupted, you can temporarily disable Call Waiting by pressing *** 7 PQRS 0+** before placing your call. Call Waiting is automatically reactivated once you end the call.

Making a Three-Way Call

With Three-Way Calling, you can talk to two people at the same time. When using this feature, the normal airtime rates will be charged for each of the two calls.

1. Enter a number you wish to call and press **TALK**.
2. Once you have established the connection, enter the second number you wish to call and press **TALK**. This puts the first caller on hold and dials the second number.
3. When you're connected to the second party, press **TALK** again to begin your three-way call.

If one of the people you called hangs up during your call, you and the remaining caller stay connected. If you initiated the call and are the first to hang up, all three callers are disconnected.

Tip: You can also begin a Three-Way Call by displaying a phone number stored in your Internal Phone Book, Call History, or Messaging. To call the third party, press **TALK**.

Note: Call Waiting and Three-Way Calling are not available while roaming off the enhanced Sprint Nationwide PCS Network.

Using Call Forwarding

Call Forwarding lets you forward all your incoming calls to another phone number – even when your phone is turned off. You can continue to make calls from your phone when Call Forwarding is activated.

To Activate Call Forwarding

1. Press *** 7 PQRS 2 ABC**.
2. Enter the area code and phone number to which your future calls should be forwarded.
3. Press **↵**. You will see a message and hear a tone to confirm the activation of Call Forwarding.

To Deactivate Call Forwarding

1. Press *** 7 PQRS 2 ABC 0+**.
2. Press **↵**. You will see a message and hear a tone to confirm the deactivation.

Note: You are charged a higher rate for calls you have forwarded.

PCS VisionSM

In This Section

► Messaging

► PCS Business ConnectionSM Personal Edition

PCS VisionSM brings you clarity you can see and hear with always-on, advanced multimedia services. These features, including, are easy to learn and use and the rich, colorful graphic experience is visually comparable to your home or office computer. Clearly, it's a whole new way to look at wireless.



Messaging

Now you can send and receive email and text messages and participate in Web-based chatrooms right from your PCS Phone. Messaging allows you to stay connected to friends, family, and co-workers 24 hours a day with always-on text capabilities anywhere on the enhanced Sprint Nationwide PCS Network. (PCS Voicemail provides voicemail-to-mailbox messaging. For information on using your phone's voicemail feature, see "Using Voicemail" on page 90)

Compose

1. Press (**Menu**) to access the main menu.
2. Select **Messaging**, press (**OK**) or (**Select**).
3. Select **Compose**, press (**OK**) or (**Select**).
4. To select "To:", press (**OK**).
5. Input a new phone number and press (**OK**) or (**Select**).
To change the input mode, press (**Options**) and Press (**Browse**) search the phone number from "Phonebook", "Incoming Calls", "Outgoing Calls" or "Missed Calls".
6. Input a new text message and press (**OK**) or (**Select**).
To change the input mode, press (**Options**) and Press (**Browse**) search the message from "Quicknotes".
 - Quicknotes : Crazy 4 you / Party / Anniversary / Too funny! / Hugs and kisses - OK... / I love you! / Tag, you're it! / What time does it ... / I'll be there at / I'm on a conference... / I have to work late. / The meeting has be... / I sent this from my... / Let's get lunch. / Meet me at / Thanks! / Can you pick up / Don't forget to / Where are you? / Call me.
7. Input a default callback number and press (**OK**) or (**Select**).
8. Select the priority (Normal/Urgent) by using the navigation key and press (**OK**) or (**Select**).
9. Select the Delivery Receipt (On/Off) by using the navigation key and press (**OK**) or (**Select**).
10. Press (**Done**) and to send the text message select (**Yes**).

Inbox

1. Press (**Menu**) to access the main menu.
2. Select **Messaging**, press (**OK**) or (**Select**).
3. Select **Inbox**, press (**OK**) or (**Select**).
4. Select a message and press (**OK**) or (**Select**).

	: Unread
	: Unread (with attachment)
	: Unread and urgent
	: Unread and urgent (with attachment)
	: Read
	: Read (with attachment)
	: Read and Locked
	: Read and Locked (with attachment)

5. Press (**Options**) to select inbox menu

Create Message

1. Open a new text message.

Call Back

1. Call the number in the message header or embedded in the message.

Go To

1. Launch the micro-browser and go to a Web address (URL) embedded in the message.

Reply

1. Open a new text message, with the sender's ReplyTo number or email address in the To field.

Forward

1. Open a copy of the text message, with an empty To field.

Play

1. Play a sound file in the message.

Lock/Unlock

1. Lock or unlock the message.

Delete

1. Delete the message.

Delete All

1. Delete all inbox messages.

Inbox Setup

1. Open the text message inbox setup menu.

Outbox

1. Press  (**Menu**) to access the main menu.
2. Select **Messaging**, press  (**OK**) or  (**Select**).
3. Select **Outbox**, press  (**OK**) or  (**Select**).
4. Select a message and press  (**OK**) or  (**Select**).

✕ : Sending failed
✓ : Outbox Sent
⌂ : Sending in progress

5. Press  (**FWD**) or press  (**Options**) to select outbox menu.

Forward

1. Enter the phone number of the person you are sending the message, then press  (**OK**) or  (**OK**).
2. Press  (**Done**).

Edit

1. Enter any text message to go along with the forwarded message, then press  (**OK**) or  (**OK**).
2. Press  (**Done**).

Send

1. To resend the text message.

Lock/Unlock

1. Select “Lock” to lock the message or “Unlock” to unlock the message, then press  (**OK**) or  (**Select**).

Compose New

To send a message to another person.

1. Input a new phone number and press  (**OK**) or  (**OK**).
2. Input a new text message and press  (**OK**) or  (**OK**).
3. Input a default callback number and press  (**OK**) or  (**OK**).
4. Select the priority (Normal/Urgent) by using the navigation key and press  (**OK**) or  (**Select**).
5. Select the Delivery Receipt (On/Off) by using the navigation key and press  (**OK**) or  (**Select**).
6. Press  (**Done**) and to send the text message select  (**Yes**).

Delete

To delete a text message.

1. When you see “Delete Message?”.
2. Select “Yes” or “No” with the Navigation key.
3. To save, press  (**OK**) or  (**Yes**).

Delete All

To delete all text messages.

1. When you see “Delete All Messages?”.
2. Select “Yes” or “No” with the Navigation key.
3. To save, press  (**OK**) or  (**Yes**).

Sent Folder

1. Press  (**Menu**) to access the main menu.
2. Select **Messaging**, press  (**OK**) or  (**Select**).
3. Select **Sent Folder**, press  (**OK**) or  (**Select**).
4. Select a text message using the navigation key. Press  (**OK**) or  (**Select**).
5. The text message is displayed, press  (**Options**) to select menu.
6. If the text message is saved from the “Inbox” menu, this screen will be displayed. If the text message is saved from the “Outbox” menu, this screen will be displayed.

7. Press **OK** (OK) or **⏮** (Select).

Drafts Folder

1. Press **⏮** (Menu) to access the main menu.
2. Select **Messaging**, press **OK** (OK) or **⏮** (Select).
3. Select **Drafts Folder**, press **OK** (OK) or **⏮** (Select).
4. Select a text message using the navigation key. Press **OK** (OK) or **⏮** (Select).
5. The text message is displayed, press **⏭** (Options) to select menu.
6. If the text message is saved from the “Inbox” menu, this screen will be displayed.
If the text message is saved from the “Outbox” menu, this screen will be displayed.
7. Press **OK** (OK) or **⏮** (Select).

Quick Notes

Quick notes are short, pre-written text messages that you can select, edit, and send quickly (for example, Meet me at ...). You can also create new quick note messages and store them for later use.

1. Press **⏮** (Menu) to access the main menu.
2. Select **Messaging**, press **OK** (OK) or **⏮** (Select).
3. Select **Quick Notes**, press **OK** (OK) or **⏮** (Select).
4. Select a quick note text using the navigation key. Press **OK** (OK) or **⏮** (Edit).
5. Enter new quick note text, press **OK** (OK) or **⏮** (OK).
6. Press **⏭** (Options) to quick notes menu.

Add New

Open an editor where you can create a new quick note.

1. Enter new quick note text, press **OK** (OK) or **⏮** (OK) to save it.

Edit

Open an editor where you can edit the selected quick note.

1. Edit the quick note text and press **OK** (OK) or **⏮** (OK) to save your changes.

Send

1. Open a new message, with the selected quick note text in the Msg field.
2. Complete the other fields in the message.
3. To send the quick note to multiple recipients, enter multiple phone numbers in the To field as described in step 2 of the procedure for “Sending a Text Message”.

Delete

1. Delete the selected quick note.

Settings

1. Press **⏮** (Menu) to access the main menu.
2. Select **Messaging**, press **OK** (OK) or **⏮** (Select).
3. Select **Settings**, press **OK** (OK) or **⏮** (Select).

Display Pop-up

1. Select “On” or “Off” with the Navigation key.
2. To save, press **OK** (OK) or **⏮** (Select).

Delivery Receipt

1. Select “On” or “Off” with the Navigation key.
2. To save, press **OK** (OK) or **⏮** (Select).

Overwrite

1. Select “On” or “Off” with the Navigation key.
2. To save, press **OK** (OK) or **⏮** (Select).

Messaging Alerts

1. Select “Once”, “Repeat” or “Off” with the Navigation key.
2. To save, press **OK** (OK) or **⏮** (Select).

Delete All Messages

1. When you see “Delete All Messages?”.

2. Select “Yes” or “No” with the Navigation key.

3. To save, press **OK** (OK) or **Yes** (Yes).



PCS Business ConnectionSM Personal Edition

PCS Business ConnectionSM Personal Edition is designed to offer secure wireless access to both Microsoft[®] Outlook[®] and Lotus Notes[®].

PCS Business Connection Personal Edition delivers the following features:

- ▶ **Business email access:** Read, reply to, forward, delete, and compose your company email.
- ▶ **Company directory and contacts:** Search, view, call, and email contacts from your company's directory. Do all this and add/edit your personal contacts.
- ▶ **Work calendar:** Accept and decline meetings, view daily summaries and details, and navigate to various dates.
- ▶ **Files/information on your PC:** Browse folders, download, and view documents from any device using a PC browser or Pocket Internet Explorer.

To use PCS Business Connection Personal Edition, install PCS Business Connection Personal Edition software on your work PC. This allows data to be securely retrieved in real-time by your wireless device when connected to the enhanced Sprint Nationwide PCS Network. There is a monthly charge for PCS Business Connection and usage charges will also apply.

When your work PC isn't on, you can share connections with your co-workers so that you always have access to your email, calendar, and contacts. Your data remains secure behind the corporate firewall and any changes you make on your wireless device are instantly updated on your company server without the need to synchronize.

Additional PCS Business Connection solutions are available for your company. For more details, visit businessconnection.sprintpcs.com.

PCS Voice CommandSM

In This Section

- ▶ **Getting Started with PCS Voice CommandSM**
- ▶ **Creating Your Own Address Book**
- ▶ **Making a Call with PCS Voice Command**

With Sprint, the first wireless provider to offer innovative PCS Voice Command technology, reaching your friends, family, and co-workers has never been easier – especially when you're on the go. Your voice does it all with PCS Voice Command.

Getting Started With PCS Voice Command™

With PCS Voice Command:

- ▶ You can store all your contacts' phone numbers, so you can simply say the name of the person you want to call.
- ▶ There's no need to punch in a lot of numbers, memorize voice mail passwords, or try to dial while you're driving.
- ▶ You can call anyone in your address book – even if you don't remember their phone number.

It's Easy to Get Started

- Just dial * TALK from your PCS Phone to activate the service and listen to brief instructions directly from your phone. There is a monthly charge for PCS Voice Command.

Creating Your Own Address Book

You can program up to 300 names into your personal address book with each name having up to five phone numbers. That's 1,500 phone numbers – and with the advanced technology of PCS Voice Command – you can have instant access to all of them.

There are four ways to update your address book:

- ▶ **Use Voice Recordings:** Simply dial * TALK and say, "Add name." You will then be asked to say the name and number you want to add to your personal address book. Your address book can store up to 20 voice recorded names at once.
- ▶ **On the Web:** Go to www.talk.sprintpcs.com and receive a fully functional Web-based address book to create and update your contacts.
- ▶ **Use an Existing Address Book:** Automatically merge address books from desktop software applications with Sprint Sync™ Services for no additional charge. Simply click on the "Click to synchronize" button within your PCS Voice Command personal address book at www.talk.sprintpcs.com.

- ▶ **Call Directory Assistance:** If you don't have a computer or Internet access handy, you can have PCS Directory Assistance look up phone numbers for you and automatically add them to your address book. Just say "Call operator" and we'll add two names and numbers to your address book for our standard directory assistance charge.

Making a Call With PCS Voice Command

1. Once you've signed up for PCS Voice Command and created your address book, all you do is press * TALK . You'll hear a tone followed by the prompt "Ready."
2. After the "Ready" prompt, simply say in a natural voice "Call" and the name of the person or the number you'd like to call. For example, you can say, "Call Jane Smith at work," "Call John Baker on the mobile phone," "Call 555-1234," or "Call Bob Miller."
3. Your request will be repeated and you will be asked to verify. Say "Yes" to call the number or person. Say "No" if you wish to cancel.
4. The number will automatically be dialed. Keep in mind that PCS Voice Command recognizes not only your voice, but any voice, so that others can experience the same convenience if they use your phone.

For more helpful hints on PCS Voice Command, including a list of recognized commands and an interactive tutorial, visit www.talk.sprintpcs.com.

Note: PCS Voice Command is not available while roaming off the enhanced Sprint Nationwide PCS Network.

Safety Guidelines and Warranty Information

Safety

In This Section

- ▶ **Getting the Most Out of Your Reception**
 - ▶ **Maintaining Safe Use of and Access to Your Phone**
 - ▶ **Caring for the Battery**
 - ▶ **Acknowledging Special Precautions and the FCC Notice**
 - ▶ **Consumer Information on Wireless Phones**
 - ▶ **Owner's Record**
 - ▶ **User Guide Proprietary Notice**
-

Part of getting the most out of your PCS Phone is learning how the phone works and how to care for it. This section outlines performance and safety guidelines that help you understand the basic features of your phone's operation.

Getting the Most Out of Your Reception

Keeping Tabs on Signal Strength

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal. If you're inside a building, being near a window may give you better reception.

Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key. Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radiofrequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

Knowing Radiofrequency Safety

The design of your PCS Phone complies with updated NCRP standards described below.

In 1991-92, the Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute (ANSI) joined in updating ANSI's 1982 standard for safety levels with respect to human exposure to RF signals. More than 120 scientists, engineers and physicians from universities, government health agencies and industries developed this updated standard after reviewing the available body of research. In 1993, the Federal Communications Commission (FCC) adopted this updated standard in a regulation. In August 1996, the FCC adopted hybrid standard consisting of the existing ANSI/IEEE standard and the guidelines published by the National Council of Radiation Protection and Measurements (NCRP).

Maintaining Your Phone's Peak Performance

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- ▶ Hold the phone with the antenna raised, fully-extended, and over your shoulder.
- ▶ Try not to hold, bend, or twist the phone's antenna.
- ▶ Don't use the phone if the antenna is damaged.
- ▶ Speak directly into the mouthpiece.
- ▶ Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it's inoperable, return it to a SprintStore or call PCS Customer Service Solutions™ for service.

Note: For the best care of your phone, only Sprint authorized personnel should service your phone and accessories. Faulty service may void the warranty.

Maintaining Safe Use of and Access to Your Phone

FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE

Using Your Phone While Driving

Talking on your phone while driving (or operating the phone without a hands-free device) is prohibited in some jurisdictions. Laws vary as to specific restrictions. Remember that safety always comes first.

When using your phone in the car:

- ▶ Get to know your phone and its features, such as speed dial and redial.
- ▶ When available, use a hands-free device.
- ▶ Position your phone within easy reach.
- ▶ Let the person you are speaking to know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions.
- ▶ Do not take notes or look up phone numbers while driving.

- ▶ Dial sensibly and assess the traffic; if possible, place calls when stationary or before pulling into traffic.
- ▶ Do not engage in stressful or emotional conversations that may divert your attention from the road.
- ▶ Dial 911 to report serious emergencies. It's free from your wireless phone.
- ▶ Use your phone to help others in emergencies.
- ▶ Call roadside assistance or a special non-emergency wireless number when necessary.

Tip: Purchase an optional hands-free car kit at your local Sprint Store. You may also call the PCS Accessory Hotline at 1-800-974-2221 or by dialing # 2 ABC 2 ABC on your PCS Phone.

Following Safety Guidelines

To operate your phone safely and efficiently, always follow any special regulations in a given area. Turn your phone off in areas where use is forbidden or when it may cause interference or danger.

Using Your Phone Near Other Electronic Devices

Most modern electronic equipment is shielded from radiofrequency (RF) signals. However, RF signals from wireless phones may affect inadequately shielded electronic equipment.

RF signals may affect improperly installed or inadequately shielded electronic operating systems and/or entertainment systems in motor vehicles. Check with the manufacturer or their representative to determine if these systems are adequately shielded from external RF signals. Also check with the manufacturer regarding any equipment that has been added to your vehicle.

Consult the manufacturer of any personal medical devices, such as pacemakers and hearing aids, to determine if they are adequately shielded from external RF signals.

Note: Always turn off the phone in health care facilities and request permission before using the phone near medical equipment.

Turning Off Your Phone Before Flying

Turn off your phone before boarding any aircraft. To prevent possible interference with aircraft systems, the U.S. Federal Aviation Administration (FAA) regulations require you to have permission from a crew member to use your phone while the plane is on the ground. To prevent any risk of interference, FCC regulations prohibit using your phone while the plane is in the air.

Turning Off Your Phone in Dangerous Areas

To avoid interfering with blasting operations, turn off your phone when in a blasting area or in other areas with signs indicating that two-way radios should be turned off. Construction crews often use remote-control RF devices to set off explosives.

Turn off your phone when you're in any area that has a potentially explosive atmosphere. Although it's rare, your phone or its accessories could generate sparks. Sparks could cause an explosion or a fire resulting in bodily injury or even death. These areas are often, but not always, clearly marked. They include:

- ▶ Fueling areas such as gas stations.
- ▶ Below deck on boats.
- ▶ Fuel or chemical transfer or storage facilities.
- ▶ Areas where the air contains chemicals or particles such as grain, dust or metal powders.
- ▶ Any other area where you would normally be advised to turn off your vehicle's engine.

Note: Never transport or store flammable gas, liquid, or explosives in the compartment of your vehicle that contains your phone or accessories.

Restricting Children's Access to your Phone

Your PCS Phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

Caring for the Battery

Protecting Your Battery

The guidelines listed below help you get the most out of your battery's performance.

- ▶ Use only Sprint-approved batteries and desktop chargers. These chargers are designed to maximize battery life. Using other batteries or chargers voids your warranty and may cause damage.
- ▶ In order to avoid damage, charge the battery only in temperatures that range from 32° F to 113° F (0° C to 45° C).
- ▶ Don't use the battery charger in direct sunlight or in high humidity areas, such as the bathroom.
- ▶ Never dispose of the battery by incineration.
- ▶ Keep the metal contacts on top of the battery clean.
- ▶ Don't attempt to disassemble or short-circuit the battery.
- ▶ The battery may need recharging if it has not been used for a long period of time.
- ▶ It's best to replace the battery when it no longer provides acceptable performance. It can be recharged hundreds of times before it needs replacing.
- ▶ Don't store the battery in high temperature areas for long periods of time. It's best to follow these storage rules:
 - Less than one month:
4° F to 140° F (-20° C to 60° C)
 - More than one month:
4° F to 113° F (-20° C to 45° C)

Disposal of Lithium Ion (Li-Ion) Batteries

For safe disposal options of your Li-Ion batteries, contact your nearest Sprint-authorized service center.

Special Note: Be sure to dispose of your battery properly. In some areas, the disposal of batteries in household or business trash may be prohibited.

Note: For safety, do not handle a damaged or leaking Li-Ion battery.

Acknowledging Special Precautions and the FCC Notice

FCC Notice

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269, Attn: Publication Sales Division.

Cautions

Any changes or modifications to your phone not expressly approved in this document could void your warranty for this equipment, and void your authority to operate this equipment. Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

Although your phone is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or sitting on it.

Body-Worn Operation

To maintain compliance with FCC RF exposure guidelines, if you wear a handset on your body, use the Sprint supplied or approved carrying case, holster or other body-worn accessory. If you do not use a body-worn accessory, ensure that the antenna is at least 7/16 inch (1.5 centimeters) from your body when transmitting. Use of non-Sprint approved accessories may violate FCC RF exposure guidelines. For more information about RF exposure, please visit the FCC Web site at www.fcc.gov.

Specific Absorption Rates (SAR) for Wireless Phones

The SAR is a value that corresponds to the relative amount of RF energy absorbed in the head of a user of a wireless handset.

The SAR value of a phone is the result of an extensive testing, measuring and calculation process. It does not represent how much RF the phone emits. All phone models are tested at their highest value in strict laboratory settings. But when in operation, the SAR of a phone can be substantially less than the level reported to the FCC.

This is because of a variety of factors including its proximity to a base station antenna, phone design and other factors. What is important to remember is that each phone meets strict federal guidelines.

Variations in SARs do not represent a variation in safety.

All phones must meet the federal standard, which incorporates a substantial margin of safety. As stated above, variations in SAR values between different model phones do not mean variations in safety.

SAR values at or below the federal standard of 1.6 W/kg are considered safe for use by the public.

The highest reported SAR values of the [model xx] are:

AMPS mode (Part 22) - Head: [x.xx] W/kg; Body-worn: [x.xx] W/kg

PCS mode (Part 24) - Head: [x.xx] W/kg; Body-worn: [x.xx] W/kg

FCC Radiofrequency Emission

This phone meets the FCC Radiofrequency Emission Guidelines. FCC ID number: [manufacturer needs to provide #]. More information on the phone's SAR can be found from the following FCC Web site:

<http://www.fcc.gov/oet/fccid>.

Consumer Information on Wireless Phones

(The following information comes from a consumer information Web site jointly sponsored by the U.S. Food and Drug Administration (FDA) and the Federal Communications Commission (FCC), entitled "Cell Phone Facts: Consumer Information on Wireless Phones." The information reproduced herein is dated April 3, 2002. For further updates, please visit the Web site: <http://www.fda.gov/cellphones/>.)

1. What is radiofrequency energy (RF)?

Radiofrequency (RF) energy is another name for radio waves. It is one form of electromagnetic energy that makes up the electromagnetic spectrum. Some of the other forms of energy in the electromagnetic spectrum are gamma rays, x-rays and light. Electromagnetic energy (or electromagnetic radiation) consists of waves of electric and magnetic energy moving together (radiating) through space. The area where these waves are found is called an electromagnetic field.

Radio waves are created due to the movement of electrical charges in antennas. As they are created, these waves radiate away from the antenna. All electromagnetic waves travel at the speed of light. The major differences between the different types of waves are the distances covered by one cycle of the wave and the number of waves that pass a certain point during a set time period. The wavelength is the distance covered by one cycle of a wave. The frequency is the number of waves passing a given point in one second. For any electromagnetic wave, the wavelength multiplied by the frequency equals the speed of light. The frequency of an RF signal is usually expressed in units called hertz (Hz). One Hz equals one wave per second. One kilohertz (kHz) equals one thousand waves per second, one megahertz (MHz) equals one million waves per second, and one gigahertz (GHz) equals one billion waves per second.

RF energy includes waves with frequencies ranging from about 3000 waves per second (3 kHz) to 300 billion waves per second (300 GHz). Microwaves are a subset of radio waves that have frequencies ranging from around 300 million waves per second (300 MHz) to three billion waves per second (3 GHz).

2. How is radiofrequency energy used?

Probably the most important use of RF energy is for telecommunications. Radio and TV broadcasting, wireless phones, pagers, cordless phones, police and fire department radios, point-to-point links and satellite communications all rely on RF energy.

Other uses of RF energy include microwave ovens, radar, industrial heaters and sealers, and medical treatments. RF energy, especially at microwave frequencies, can heat water. Since most food has a high water content, microwaves can cook food quickly. Radar relies on RF energy to track cars and airplanes as well as for military applications. Industrial heaters and sealers use RF energy to mold plastic materials, glue wood products, seal leather items such as shoes and pocketbooks, and process food. Medical uses of RF energy include pacemaker monitoring and programming.

3. How is radiofrequency radiation measured?

RF waves and RF fields have both electrical and magnetic components. It is often convenient to express the strength of the RF field in terms of each component. For example, the unit "volts per meter" (V/m) is used to measure the electric field strength, and the unit "amperes per meter" (A/m) is used to express the magnetic field strength. Another common way to characterize an RF field is by means of the power density. Power density is defined as power per unit area. For example, power density can be expressed in terms of milliwatts (one thousandth of a watt) per square centimeter (mW/cm^2 or microwatts (one millionth of a watt) per square centimeter ($\mu\text{W}/\text{cm}^2$).

The quantity used to measure how much RF energy is actually absorbed by the body is called the Specific Absorption Rate or SAR. The SAR is a measure of the rate of absorption of RF energy. It is usually expressed in units of watts per kilogram (W/kg) or milliwatts per gram (mW/g).

4. What biological effects can be caused by RF energy?

The biological effects of radiofrequency energy should not be confused with the effects from other types of electromagnetic energy.

Very high levels of electromagnetic energy, such as is found in X-rays and gamma rays can ionize biological tissues. Ionization is a process where electrons are stripped away from their normal locations in atoms and molecules. It can permanently damage biological tissues

including DNA, the genetic material. Ionization only occurs with very high levels of electromagnetic energy such as X-rays and gamma rays. Often the term radiation is used when discussing ionizing radiation (such as that associated with nuclear power plants).

The energy levels associated with radiofrequency energy, including both radio waves and microwaves, are not great enough to cause the ionization of atoms and molecules. Therefore, RF energy is a type of non-ionizing radiation. Other types of non-ionizing radiation include visible light, infrared radiation (heat) and other forms of electromagnetic radiation with relatively low frequencies.

Large amounts of RF energy can heat tissue. This can damage tissues and increase body temperatures. Two areas of the body, the eyes and the testes, are particularly vulnerable to RF heating because there is relatively little blood flow in them to carry away excess heat.

The amount of RF radiation routinely encountered by the general public is too low to produce significant heating or increased body temperature. Still, some people have questions about the possible health effects of low levels of RF energy. It is generally agreed that further research is needed to determine what effects actually occur and whether they are dangerous to people. In the meantime, standards-setting organizations and government agencies are continuing to monitor the latest scientific findings to determine whether changes in safety limits are needed to protect human health.

FDA, EPA and other US government agencies responsible for public health and safety have worked together and in connection with WHO to monitor developments and identify research needs related to RF biological effects.

5. What levels of RF energy are considered safe?

Various organizations and countries have developed standards for exposure to radiofrequency energy. These standards recommend safe levels of exposure for both the general public and for workers. In the United States, the FCC has used safety guidelines for RF environmental exposure since 1985.

The FCC guidelines for human exposure to RF electromagnetic fields are derived from the recommendations of two expert organizations, the National Council on Radiation Protection and Measurements (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government,

and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

Many countries in Europe and elsewhere use exposure guidelines developed by the International Commission on Non-Ionizing Radiation Protection (ICNIRP). The ICNIRP safety limits are generally similar to those of the NCRP and IEEE, with a few exceptions. For example, ICNIRP recommends different exposure levels in the lower and upper frequency ranges and for localized exposure from certain products such as hand-held wireless telephones. Currently, the World Health Organization is working to provide a framework for international harmonization of RF safety standards.

The NCRP, IEEE, and ICNIRP all have identified a whole-body Specific Absorption Rate (SAR) value of 4 watts per kilogram (4 W/kg) as a threshold level of exposure at which harmful biological effects may occur. Exposure guidelines in terms of field strength, power density and localized SAR were then derived from this threshold value. In addition, the NCRP, IEEE, and ICNIRP guidelines vary depending on the frequency of the RF exposure. This is due to the finding that whole-body human absorption of RF energy varies with the frequency of the RF signal. The most restrictive limits on whole-body exposure are in the frequency range of 30-300 MHz where the human body absorbs RF energy most efficiently. For products that only expose part of the body, such as wireless phones, exposure limits in terms of SAR only are specified.

The exposure limits used by the FCC are expressed in terms of SAR, electric and magnetic field strength, and power density for transmitters operating at frequencies from 300 kHz to 100 GHz. The specific values can be found in two FCC bulletins, OET Bulletins 56 and 65: <http://www.fcc.gov/oet/info/documents/bulletins/#56>; <http://www.fcc.gov/oet/info/documents/bulletins/#65>

6. Why has the FCC adopted guidelines for RF exposure?

The FCC authorizes and licenses products, transmitters, and facilities that generate RF and microwave radiation. It has jurisdiction over all transmitting services in the U.S. except those specifically operated by the Federal Government. While the FCC does not have the expertise to determine radiation exposure guidelines on its own, it does have the expertise and authority to recognize and adopt technically sound standards promulgated by other expert agencies and organizations, and has done so. (Our joint efforts with the FDA in developing this website is illustrative of the kind of inter-agency efforts and consultation we engage in regarding this health and safety issue.)

Under the National Environmental Policy Act of 1969 (NEPA), the FCC has certain responsibilities to consider whether its actions will significantly affect the quality of the human environment. Therefore, FCC approval and licensing of transmitters and facilities must be evaluated for significant impact on the environment. Human exposure to RF radiation emitted by FCC-regulated transmitters is one of several factors that must be considered in such environmental evaluations. In 1996, the FCC revised its guidelines for RF exposure as a result of a multi-year proceeding and as required by the Telecommunications Act of 1996.

Radio and television broadcast stations, satellite-earth stations, experimental radio stations and certain wireless communication facilities are required to undergo routine evaluation for RF compliance when they submit an application to the FCC for construction or modification of a transmitting facility or renewal of a license. Failure to comply with the FCC's RF exposure guidelines could lead to the preparation of a formal Environmental Assessment, possible Environmental Impact Statement and eventual rejection of an application. Technical guidelines for evaluating compliance with the FCC RF safety requirements can be found in the FCC's OET Bulletin 65. <http://www.fcc.gov/oet/info/documents/bulletins/#65>

Low-powered, intermittent, or inaccessible RF transmitters and facilities are normally excluded from the requirement for routine evaluation for RF exposure. These exclusions are based on standard calculations and measurement data indicating that a transmitting station or equipment operating under the conditions prescribed is unlikely to cause exposures in excess of the guidelines under normal conditions of use. Such exclusions are not exclusions from compliance, but, rather, exclusions from routine evaluation. The FCC's policies on RF exposure and categorical exclusion can be found in Section 1.1307(b) of the FCC's Rules and Regulations [(47 CFR 1.1307(b))].

7. How can I obtain the Specific Absorption Rate (SAR) value for my wireless phone?

The FCC requires that wireless phones sold in the United States demonstrate compliance with human exposure limits adopted by the FCC in 1996. The relative amount of RF energy absorbed in the head of a wireless telephone-user is given by the Specific Absorption Rate (SAR), as explained above. The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg) in terms of SAR.

Information on SAR for a specific phone model can be obtained for many recently manufactured phones using the FCC identification (ID) number for that model. The FCC ID number is usually printed somewhere on the case of the phone. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the ID number, go to the following Web address: www.fcc.gov/oet/fccid. On this page, you will see instructions for entering the FCC ID number. Type the FCC ID number exactly as requested (the Grantee Code is the first three characters, the Equipment Product Code is the rest of the FCC ID number). Then click on "Start Search." The "Grant of Equipment Authorization" for your telephone should appear. Read through the grant for the section on "SAR Compliance," "Certification of Compliance with FCC Rules for RF Exposure" or similar language. This section should contain the value(s) for typical or maximum SAR for your phone.

Phones and other products authorized since June 2, 2000, should have the maximum SAR levels noted directly on the "Grant of Equipment Authorization." For phones and products authorized between about mid-1998 and June 2000, detailed information on SAR levels is typically found in the exhibits associated with the grant. Once a grant is accessed, the exhibits can be viewed by clicking on "View Exhibit." Grants authorized prior to 1998 are not part of the electronic database but, rather, have been documented in the form of paper records.

The FCC database does not list phones by model number. However, consumers may find SAR information from other sources as well. Some wireless phone manufacturers make SAR information available on their own Web sites. In addition, some non-government Web sites provide SARs for specific models of wireless phones. However, the FCC has not reviewed these sites and makes no guarantees of their accuracy. Finally, phones certified by the Cellular Telecommunications and Internet Association (CTIA) are required to provide SAR information to consumers in the instructional materials that come with the phones.

8. Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF

emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

9. Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike "hand-free" kits, these so-called "shields" may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal Trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

10. What are wireless telephone base stations?

Fixed antennas used for wireless telecommunications are referred to as cellular base stations, cell stations, PCS ("Personal Communications Service") stations or telephone transmission towers. These base stations consist of antennas and electronic equipment. Because the antennas need to be high in the air, they are often located on towers, poles, water tanks, or rooftops. Typical heights for freestanding base station towers are 50-200 feet.

Some base stations use antennas that look like poles, 10 to 15 feet in length, that are referred to as "omni-directional" antennas. These types of antennas are usually found in rural areas. In urban and suburban areas, wireless providers now more commonly use panel or sector antennas for their base stations. These antennas consist of rectangular panels, about 1 by 4 feet in dimension. The antennas are usually arranged in three groups of three antennas each. One antenna in each group is used to transmit signals to wireless phones, and the other

two antennas in each group are used to receive signals from wireless phones.

At any base station site, the amount of RF energy produced depends on the number of radio channels (transmitters) per antenna and the power of each transmitter. Typically, 21 channels per antenna sector are available. For a typical cell site using sector antennas, each of the three transmitting antennas could be connected to up to 21 transmitters for a total of 63 transmitters. However, it is unlikely that all of the transmitters would be transmitting at the same time. When omni-directional antennas are used, a cellular base station could theoretically use up to 96 transmitters, but this would be very unusual, and, once again, it is unlikely that all transmitters would be in operation simultaneously. Base stations used for PCS communications generally require fewer transmitters than those used for cellular radio transmissions, since PCS carriers usually have a higher density of base station antenna sites.

11. Are wireless telephone base stations safe?

The electromagnetic RF signals transmitted from base station antennas travel toward the horizon in relatively narrow paths. For example, the radiation pattern for an antenna array mounted on a tower can be likened to a thin pancake centered around the antenna system. The individual pattern for a single array of sector antennas is wedge-shaped, like a piece of pie. As with all forms of electromagnetic energy, the power decreases rapidly as one moves away from the antenna. Therefore, RF exposure on the ground is much less than exposure very close to the antenna and in the path of the transmitted radio signal. In fact, ground-level exposure from such antennas is typically thousands of times less than the exposure levels recommended as safe by expert organizations. So exposure to nearby residents would be well within safety margins.

Cellular and PCS base stations in the United States are required to comply with limits for exposure recommended by expert organizations and endorsed by government agencies responsible for health and safety. Measurements made near cellular and PCS base station antennas mounted on towers have confirmed that ground-level exposures are typically thousands of times less than the exposure limits adopted by the FCC. In fact, in order to be exposed to levels at or near the FCC limits for cellular or PCS frequencies an individual would essentially have to remain in the main transmitted radio signal (at the height of the antenna) and within a few feet from the antenna. This is, of course, very unlikely to occur.

When cellular and PCS antennas are mounted on rooftops, RF levels on that roof or on others near by would probably be greater than those typically encountered on the ground. However, exposure levels approaching or exceeding safety guidelines should be encountered only very close to or directly in front of the antennas. In addition, for sector-type antennas, typically used for such rooftop base stations, RF levels to the side and in back of these antennas are insignificant.

General guidelines on antenna installations and circumstances that might give rise to a concern about a facility's conformance with FCC regulations can be found in A Local Government Official's Guide to Transmitting Antenna RF Emission Safety: Rules, Procedures, and Practical Guidance. This Guide can be accessed at: <http://www.fcc.gov/oet/rfsafety>.

12. Who regulates exposure to radiation from microwave ovens, television sets and computer monitors?

The Food and Drug Administration is responsible for protecting the public from harmful radiation emissions from these consumer products.

13. Does the FCC routinely monitor radiofrequency radiation from antennas?

The FCC does not have the resources or the personnel to routinely monitor the emissions for all the thousands of transmitters that are subject to FCC jurisdiction. However, the FCC does have measurement instrumentation for evaluating RF levels in areas that may be accessible to the public or to workers. If there is evidence for potential non-compliance with FCC exposure guidelines for a FCC-regulated facility, staff from the FCC's Office of Engineering and Technology or the FCC Enforcement Bureau can conduct and investigation, and, if appropriate, perform actual measurements. Circumstances that could give rise to a concern about a facility's conformance with FCC regulations can be found in A Local Government Official's Guide to Transmitting Antenna RF Emission Safety: Rules, Procedures, and Practical Guidance. This Guide can be accessed at: <http://www.fcc.gov/oet/rfsafety>. Potential exposure problems should be brought to the FCC's attention by contacting the FCC RF Safety Program at: 202-418-2464 or by e-mail: rfsafety@fcc.gov.

14. Does the FCC maintain a database that includes information on the location and technical parameters of all the transmitting towers it regulates?

Each of the FCC Bureaus maintains its own licensing database system for the service(s) it regulates (e.g., television, cellular service, satellite earth stations). The FCC issues two types of licenses: site specific and market based. In the case of site specific licensed facilities, technical operating information is collected from the licensee as part of the licensing process. However, in the case of market based licensing (e.g., PCS, cellular), the licensee is granted the authority to operate a radio communications system in a geographic area using as many facilities as are required, and the licensee is not required to provide the FCC with specific location and operating parameters of these facilities.

Information on site specific licensed facilities can be found the "General Menu Reports" (GenMen) at <http://gulfoss2.fcc.gov/cgi-bin/ws.exe/genmen/index.htm>.

The various FCC Bureaus also publish on at least a weekly basis, bulk extracts of their licensing databases. Each licensing database has its own unique file structure. These extracts consist of multiple, very large files. The FCC's Office of Engineering and Technology (OET) maintains an index to these databases at <http://www.fcc.gov/oet/info/database/fadb.html>. Entry points into the various databases include frequency, state/county, latitude/longitude, call-sign and licensee name. For further information on the Commission's existing databases, you can contact Donald Campbell at dcampbel@fcc.gov or 202-418-2405.

15. Can local and state governmental bodies establish limits for RF exposure?

Although some local and state governments have enacted rules and regulations about human exposure to RF energy in the past, the Telecommunications Act of 1996 requires the Federal Government to control human exposure to RF emissions. In particular, Section 704 of the Act states that, "No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions." Further information on federal authority and FCC

policy is available in a fact sheet from the FCC's Wireless Telecommunications Bureau at www.fcc.gov/wtb.

16. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

17. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- ▶ Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- ▶ Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- ▶ Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure

coordinated efforts at the federal level. The following agencies belong to this working group:

- ▶ National Institute for Occupational Safety and Health
- ▶ Environmental Protection Agency
- ▶ Federal Communications Commission
- ▶ Occupational Safety and Health Administration
- ▶ National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

18. What kinds of phones are the subject of this update?

The term “wireless phone” refers here to hand-held wireless phones with built-in antennas, often called “cell,” “mobile,” or “PCS” phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user’s head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person’s RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC’s compliance limits.

19. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods.

Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don’t know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

20. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years’ follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop – if they do – may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

21. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

22. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products – and at this point we do not know that there is – it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these

products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

23. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

24. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a “compatible” phone and a “compatible” hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference

be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

25. Which other federal agencies have responsibilities related to potential RF health effects?

Certain agencies in the Federal Government have been involved in monitoring, researching or regulating issues related to human exposure to RF radiation. These agencies include the Food and Drug Administration (FDA), the Environmental Protection Agency (EPA), the Occupational Safety and Health Administration (OSHA), the National Institute for Occupational Safety and Health (NIOSH), the National Telecommunications and Information Administration (NTIA) and the Department of Defense (DOD).

By authority of the Radiation Control for Health and Safety Act of 1968, the Center for Devices and Radiological Health (CDRH) of the FDA develops performance standards for the emission of radiation from electronic products including X-ray equipment, other medical devices, television sets, microwave ovens, laser products and sunlamps. The CDRH established a product performance standard for microwave ovens in 1971 limiting the amount of RF leakage from ovens. However, the CDRH has not adopted performance standards for other RF-emitting products. The FDA is, however, the lead federal health agency in monitoring the latest research developments and advising other agencies with respect to the safety of RF-emitting products used by the public, such as cellular and PCS phones.

The FDA's microwave oven standard is an emission standard (as opposed to an exposure standard) that allows specific levels of microwave leakage (measured at five centimeters from the oven surface). The standard also requires ovens to have two independent interlock systems that prevent the oven from generating microwaves the moment that the latch is released or the door of the oven is opened. The FDA has stated that ovens that meet its standards and are used according to the manufacturer's recommendations are safe for consumer and industrial use. More information is available from: www.fda.gov/cdrh.

The EPA has, in the past, considered developing federal guidelines for public exposure to RF radiation. However, EPA activities related to RF safety and health are presently limited to advisory functions. For example, the EPA now chairs an Inter-agency Radiofrequency Working Group, which coordinates RF health-related activities

among the various federal agencies with health or regulatory responsibilities in this area.

OSHA is responsible for protecting workers from exposure to hazardous chemical and physical agents. In 1971, OSHA issued a protection guide for exposure of workers to RF radiation [29 CFR 1910.97]. However, this guide was later ruled to be only advisory and not mandatory. Moreover, it was based on an earlier RF exposure standard that has now been revised. At the present time, OSHA uses the IEEE and/or FCC exposure guidelines for enforcement purposes under OSHA's "general duty clause" (for more information see: <http://www.osha-slc.gov/SLTC/radiofrequencyradiation/index.html>).

NIOSH is part of the U.S. Department of Health and Human Services. It conducts research and investigations into issues related to occupational exposure to chemical and physical agents. NIOSH has, in the past, undertaken to develop RF exposure guidelines for workers, but final guidelines were never adopted by the agency. NIOSH conducts safety-related RF studies through its Physical Agents Effects Branch in Cincinnati, Ohio.

The NTIA is an agency of the U.S. Department of Commerce and is responsible for authorizing Federal Government use of the RF electromagnetic spectrum. Like the FCC, the NTIA also has NEPA responsibilities and has considered adopting guidelines for evaluating RF exposure from U.S. Government transmitters such as radar and military facilities.

The Department of Defense (DOD) has conducted research on the biological effects of RF energy for a number of years. This research is now conducted primarily at the U.S. Air Force Research Laboratory located at Brooks Air Force Base, Texas. The DOD Web site for RF biological effects information is listed with other sites in conjunction with a question on other sources of information, below.

26. Who funds and carries out research on the biological effects of RF energy?

Research into possible biological effects of RF energy is carried out in laboratories in the United States and around the world. In the U.S., most research has been funded by the Department of Defense, due to the extensive military use of RF equipment such as radar and high-powered radio transmitters. In addition, some federal agencies responsible for health and safety, such as the Environmental Protection Agency (EPA) and the U.S. Food and Drug Administration (FDA), have sponsored and conducted research in this area. At the

present time, most of the non-military research on biological effects of RF energy in the U.S. is being funded by industry organizations. More research is being carried out overseas, particularly in Europe.

In 1996, the World Health Organization (WHO) established the International EMF Project to review the scientific literature and work towards resolution of health concerns over the use of RF technology. WHO maintains a Web site that provides extensive information on this project and about RF biological effects and research (www.who.ch/peh-emf).

FDA, EPA and other US government agencies responsible for public health and safety have worked together and in connection with WHO to monitor developments and identify research needs related to RF biological effects.

Owner's Record

The model number, regulatory number and serial number are located on a nameplate inside the battery compartment. Record the serial number in the space provided below. This will be helpful if you need to contact us about your phone in the future.

Model: PCS Phone [model xx]

Serial No.:

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In This Section

► Manufacturer's Warranty

This section contains the manufacturer's warranty for your PCS Phone.

For information about the Terms and Conditions of your PCS Service, please see the Start Here guide included with your phone. For the most recent version of the Terms and Conditions, please visit www.sprintpcs.com.

Manufacturer's Warranty

[INSERT PHONE-SPECIFIC BROWSER & SECURITY ID GRAPHICS]



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