CDM-8300

**TRI–MODE DIGITAL CDMA2000 1X
WIRELESS HANDSET WITH GPS**

AUDIOVOX
COMMUNICATIONS CORP.

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OWNER'S MANUAL

AUDIOVOX
COMMUNICATIONS CORP.

T9 TEXT INPUT

BROWSER BY OPENWAVE

RSA SECURE

CDMA2000

Safety–
Your most
important call

WELCOME

Thank you for choosing the up-to-date CDM-8300, our new model, developed by top researchers to support the CDMA2000 1X system through Qualcomm-manufactured MSM5100 chips and CDMA technologies. This product allows for high speed communication services, such as web browsing, data & fax services, and GUI animation menu.

Among its many advanced features, the T9 input mode makes it much easier to enter letters. In addition, the VR (Voice Recognition) makes it more user friendly, with proven technologies in detail as follows:

- Full graphic display of 5 text input line and 1 icon line with variable font size.
- Lithium Ion batteries allow for long talk and standby times.
- Easy to dial through the VR feature.
- Easy to enter letters through the T9 text input mode.
- Multilingual (English and French available)
- Enhanced for web browsing & data services (i.e.; wireless internet access, wireless fax send/receive, Openwave, Up browser)
- Downloadable ringtones and images allow you to personalize your phone.
- GUI & Animation display compliant with CDMA2000 1X.
- 4-Gray large LCD.
- Navigation key and 23 keys aligned for more convenience.
- Sophisticated features of speaker phone and voice recognition.
- Additional services of text messaging and Web browsing on top of authentication, call forwarding, call transfer, call waiting.

IMPORTANT INFORMATION

This CDM-8300 user guide contains very important information about how to handle and use the product. So please read this manual thoroughly, pay attention to the warranty on the back page and be alert to the exclusions and limitations of your warranty, which are related with the unauthorized use of components.

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Chapter 1

BEFORE USING YOUR PHONE

This chapter provides important information about using the CDM-8300 including:

■ INSIDE THE PACKAGE

■ HANDSET DESCRIPTION

■ BATTERY USAGE

■ BATTERY HANDLING INFORMATION

INSIDE THE PACKAGE

This package should include all items pictured below.
If any are missing or different, immediately contact the location where you purchased the phone.
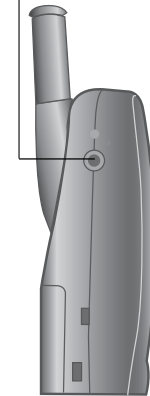
Desktop Charger

Standard Battery

Handset

User Manual

Handstrap

HANDSET DESCRIPTION

Earjack

Earpiece

Antenna

LCD Screen

Function Keys

WEB Key

SPK/Clear Key

END/
Power Key

Digit Key

Microphone

Send key

HANDSET DESCRIPTION
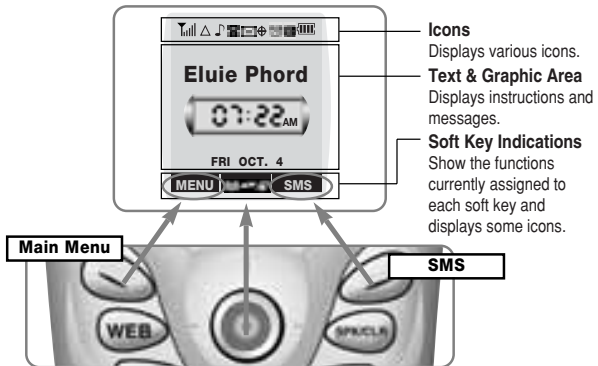
Icons
Displays various icons.

Eluie Phord

07:22AM

FRI OCT. 4

MENU   SMS

Text & Graphic Area
Displays instructions and messages.

Soft Key Indications
Show the functions currently assigned to each soft key and displays some icons.

Main Menu

SMS

WEB   SPK/CLR

THE FUNCTION KEYS

Sharch Name

Setting   **Schedule**

Call History

In Idle Mode
- Press up to access the Sharch Name, down to access the Call History, right for schedule and left for settings.

Inside the menu
- Within a menu, use to scroll through menu options, or to select a function displayed on the bottom line of the screen.
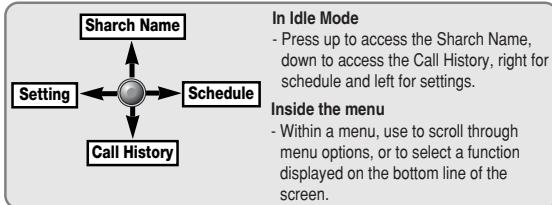
	Press to make or receive a call. Press and hold to turn on VR mode.
	Press to turn the phone on/off, to terminate a call or to return to the initial page.
	(Soft 1) Press to access the menu or function displayed on bottom line.
	(Soft 2) Press to access a voice or text message, or to return to the previous page.
WEB	Press to access internet service.
SPK/CLR	Press to clear a digit from the display or to enable speakerphone mode.
#⌐	Press and hold to enter keyguard mode.
*✲	Press and hold to enter etiquette mode.

HANDSET DESCRIPTION

DISPLAY INDICATORS

Signal Strength	Current signal strength — the more lines, the stronger the signal.
Roaming	Phone is out of home area.
Service Indicator	Indicates call is in progress, indicates the phone is in standby mode, and indicates the phone cannot receive a signal from the system.

Text Message	New text message.	**Voice Message**	New voice message.

Digital mode	Phone is operating in digital mode.
Battery	Battery charging level — the more blocks, the stronger the charge.
Mute	Phone is mute during a call.
Silent	Appears when Silent is selected as the ring mode.
Emergency Call	Blinks when an emergency call is in progress.
Voice Memo	New voice memo has been received.
Answering machine	Phone is in answering machine mode.
⊕	**911 Only :** Your location will be hidden from network & application except 911.
⊕))	**Location On :** Your location is now available to the network.
Etiquette	Phone will vibrate when call is received.
Schedule	Appears when either an event or an alarm is set.

Ring Mode
Appears when a ringer is set as a ringer mode.

♪	Ringer		Vibrate
♪	Ringer after vibrate	♪	Silent

BATTERY INSTALLATION

1 ❶ Place the battery on the back of the handset and slide into place. ❷ Push the battery down until it locks into place.
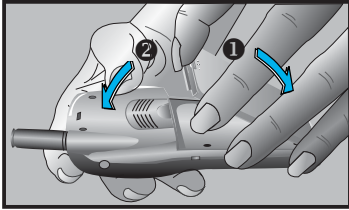
BATTERY REMOVAL

1 ❶ Pull down the release latch, lift up the battery and ❷ remove the battery from the handset.
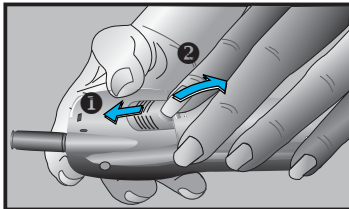
NOTE Make sure the battery is securely placed to avoid silpping off during a call.

BATTERY CHARGING

POWER CONNECTION

1 Plug the desktop charger into a standard outlet.
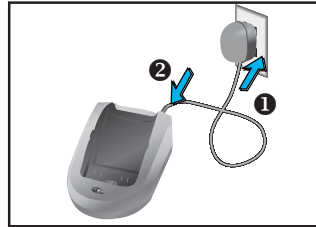
● The red LED indicates charging is in progress.
● The green LED indicates charging is completed.

NOTE Fully charge the battery before using – it is not charged when purchased.

CHARGING THE BATTERY WITH THE HANDSET

1 Place the handset (with battery attached) into the charger.
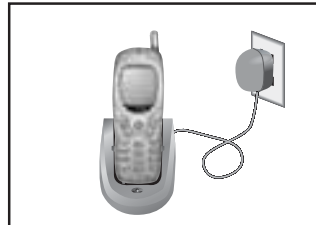
NOTE
• It is more efficient to charge the battery with the phone turned off.
• If the red LED does not illuminate when charging, check the power connection and make sure the handset is securely in place.

BATTERY USAGE

CHARGING THE BATTERY ONLY

1 To charge the battery separately, detach it from the handset.

- The red LED indicates charging is in progress.
- The green LED indicates charging is completed.
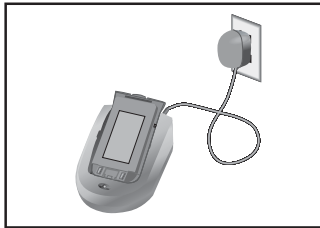
BATTERY LIFE (FOR NEW BATTERY)

The operating time is subject to your handset usage and configuration.

Status \ Type	DIGITAL	AMPS
Talk (min)	180	120
Stand by (hrs)	160	28

BATTERY HANDLING INFORMATION

● DOs

- Only use the battery and charger approved by the manufacturer.
- Only use the battery for its original purpose.
- Keep batteries in a temperature between 41ºF (5ºC) and 95ºF (35ºC).
- If the battery is stored in temperatures above or below the recommended range, give it time to warm up or cool down before using.
- Completely drain the battery before recharging. It may take one to four days to completely drain.
- Store the discharged battery in a cool, dark, and dry place.
- Purchase a new battery when its operating time gradually decreases after fully charging.
- Properly dispose of the battery according to local laws.

● DON'Ts

- Don't attempt to disassemble the battery – it is a sealed unit with no serviceable parts.
- Don't accidentally short circuit the battery by carrying it in your pocket or purse with other metallic objects such as coins, clips and pens. This may critically damage the battery.
- Don't leave the battery in hot or cold temperatures. Otherwise, it could significantly reduce the capacity and lifetime of the battery.
- Don't dispose of the battery into a fire.

Chapter 2

BASIC OPERATION

This chapter addresses and explains the basic features of your phone including

- ■ TURNING THE PHONE ON / OFF
- ■ ACCESSING THE MENU
- ■ MENU SUMMARY
- ■ BASIC FUNCTIONS
- ■ DURING A CALL
- ■ MAKING AN EMERGENCY CALL

TURNING THE PHONE ON / OFF

● TURNING THE PHONE ON

1 Press and hold ⌘ , until the "VERIZON" logo appears and the tone sounds.

(!) • To select a logo, refer to page 60 for more details. (Setting>Display>Animation setting).
• When "Password" appears on the display enter your 4-digit password to unlock your phone.
• The default password is the last 4 digits of your phone number.

● TURNING THE PHONE OFF

1 Press and hold ⌘ until "Powering Off Good Bye!" appears.

NOTE • Immediately change or recharge the battery when "Low Battery Warning Power Off" appears on the display. Memory may possibly be damaged if the phone turns off due to the battery completely draining.
• Turn the phone off before removing or replacing the battery. If the phone is on, data may be lost.

ACCESSING THE MENU

Your phone can be customized via the menu. Each function can be accessed by scrolling with the Navigation key or by pressing the number that corresponds with the menu item.

Call History (1/9)		**Setting** (5/9)	
Phone Book (2/9)		**Tools** (6/9)	
Schedule (3/9)		**Data Svc.** (7/9)	
Roaming (4/9)		**Location** (8/9)	
		Voice SVC. (9/9)	
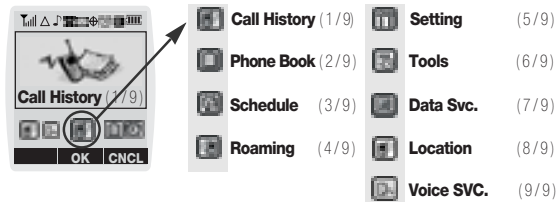
1 To access the menu in the idle mode, press ⌐ .

● When the key guard is activated, press 1, 2, 3 to unlock the key guard. Please refer to page 24 for more details

2 Use the Navigation key to scroll through the menu.

● To search through the menu in numerical order, press down or to the right.

3 To return to the previous page, press ⌐ . To exit the current menu and return to the idle mode, press ⌘ .

4 Press the Navigation key to enter a function when its main page is displayed or press its assigned number to have direct access to the function.

NOTE *Hotkey*
In the idle mode move the Navigation Key as follows to access these functions:
• *Up – Search Name*
• *Down – Call history*
• *Right – Schedule*
• *Left – Setting.*

MENU SUMMARY

1. Call History
1. Outgoing Calls
2. Incoming Calls
3. Missed Calls
4. Call Times
   1. Last Call — 1. Voice, Data/Fax
   2. All Calls — 2. Voice, Data/Fax
   3. Home Calls — 3. Voice, Data/Fax
   4. Roam Calls — 4. Voice, Data/Fax
   5. Accumulate Calls

2. Phone Book
1. Find
   1. By Group
      1. Family
      2. Friends
      3. Work
      4. Etc.
      5. All
   2. By Name
   3. By Number
2. Edit Phone Book
   1. Add New Entry
   2. Edit Existing Entry — Family, Friend, Work Etc, All
3. Edit Group
   1. Add New Group
   2. Change Group Name — Family, Friend, Work, Etc, All
   3. Change Group Bell — Family, Friend, Work, Etc, All
   4. Clear Group — Family, Friend, Work, Etc, All
4. Speed Dial
5. My Profile

3. Schedule
1. Event
   1. New Event
   2. View Event List
2. Alarm
   1. ITEM 1
      1. Time Setting
      2. Melody Setting
      3. Snooze Setting
   2. ITEM 2
      1. Time Setting
      2. Melody Setting
      3. Snooze Setting
   3. ITEM 3
      1. Time Setting
      2. Melody Setting
      3. Snooze Setting

4. Roaming
1. Set Mode(System)
   1. Automatic-B
   2. Automatic-A
   3. Home Only
2. Force Analog
   1. No
   2. Yes
3. NAM Setting
   1. Auto NAM
   2. Change NAM
4. Call Prompt
   1. Off
   2. On
   3. 7 Secs
5. PRL ID

5. Setting
1. Sounds
   1. Ringer Type
   2. Ringer Mode
      1. Ringer
      2. Vibrate
      3. Ringer After Vibration
      4. Silent
   3. Volume
      1. Ringer
      2. Key
      3. Voice Call
   4. Alert
      1. Minute Alert
      2. Roam Alert
      3. Connect Alert
      4. Fade Alert
      5. Low Signal Alert
   5. Roam Ringer — Normal/Distinctive
   6. Tone Length — Normal/Long
2. Display
   1. Animation Setting
      1. Idle Display
      2. Power On
      3. Power Off
   2. Main Display Setting
      1. Greeting Input
      2. Idle Clock
   3. LCD Setting
      1. Backlighting
      2. Contrast
3. Security
   1. Restrict
      1. Automatic Lock
      2. Incoming Call
      3. Outgoing Call

MENU SUMMARY

4. Others
   4. Incoming Call History
   5. Outgoing Call History
   6. Menu
   7. Phone Book
   8. Data Call
   9. 900# s
   10. Long Distance
   2. Special #'s
      1. Empty 1 — Yes/No
      2. Empty 2 — Yes/No
      3. Empty 3
   3. Clear Phonebook
   4. Reset Phone
   5. Change Password
   1. Answer Mode
      1. Any Key
      2. Send Key
   2. Auto Retry
      1. Retry Time
      2. Repeat — Off/5 Secs/ 10 Secs/18 Secs
   3. Auto Answer
   4. Voice Privacy
      1. Standard
      2. Enhanced
   5. Key Guard — On/Off
   6. Language — English/Spanish
   7. Web Idle Time
   8. S/W Version
5. UP Proxy IP
   1. UP Link 1 — AP1-IP/AP1-PORT/ AP2-IP/AP2-PORT
   1. UP Link 2 — AP1-IP/AP1-PORT/ AP2-IP/AP2-PORT
   1. UP Link 3 — AP1-IP/AP1-PORT/ AP2-IP/AP2-PORT

6. Tools
1. Calculator
2. World Clock
3. Stopwatch

7. Data Svc.
1. Connection — Voice Call/Data Only/ Fax Only
2. Data Speed — 19200BPS/115200BPS /230400BPS

8. Location
1. Setting — 911 Only/Location On

9. Voice Svc
1. Voice Memo — Record/Play/Clear All
2. Call Answer
   1. On/Off — Off,On
   2. Inbox — 1.Play 2.Clear All
   3. Greeting — 1.Record 2.Play 3.Clear
   4. Call Speaker — Off,On
   5. Wait Time — NoRinger/5Secs/ 10Secs/18Secs
3. Voice Command
   1. Yes/No — 1.List Words 2.Train All 3.Untrain All
   2. Wake-Up — 1.List Words 2.Train All 3.Untrain All
   3. Top Level — 1.List Words 2.Train All 3.Untrain All
   4. Digit Dial — 1.List Words1 2.List Words2 3.Train All 4.Untrain All
4. Voice Dial
   1. List — Family/Friends, Work/Etc/All
   2. Add
   3. Clear All
5. Voice Setting
   1. Untrain All — No/Yes
   2. Prompt Mode — Beginner/Expert
   3. Digit Mode — Echo/Echo+Beep/ Beep
   4. HFK Mode — Off/On

MAKING A CALL

1 Enter a phone number.

XX
-XXX-XXXX

STO   FIND   PSE

NOTE

To modify the phone number you have entered :
• To erase one digit at a time press ⊙ .
• To erase the entire number, press and hold ⊙ .

2 Press ☎ .
The indicator, ☎ , appears on the display

NOTE

• If "CALL FAILED" appears on the display or the line is busy, press ☎ or ☎ .
• If you activate the AUTO RETRY function, the phone will automatically retry for the number of times you have selected. (refer to page 70)
• A phone number will appear with its name, if available in the phone book when a call is placed.
• There is another way to make a call through the VR mode, which is called VAD (Voice Activated Dialing). Please refer to page 80 (Voice Service) for more details.

3 To end a call, press ☎ .

NOTE

Please refer to page 84 (Voice Service) for more details on using Voice Activated Dialing to place a call.

SPEAKER PHONE

1 To activate the speaker phone when the phone is in idle mode, answering mode, and calling mode press and hold ⊙ .

2 The phone returns to normal (speaker phone off) after ending the call or when the phone is turned off and back on.

PAUSE FEATURE

You can dial or save a phone number with pauses for use in the automated systems where you need to enter a credit card number, a social security number, and so on. This feature will be convenient when you are linked to ARS (Advanced Record System)

1 Enter a phone number, then press ⊘ .

XX-
XXX-XXXXP

STO   FIND   PSE

● Hard Pause - Input # will be sent when you press ☎ .
● Timed Pause - Input # will be sent automatically after 2 seconds.

2 Press ☎ to dial or ⊙ to store.
Please refer to page 30 for more details about storing a phone number.

ANSWERING A CALL

1 To answer a call, press any key except Clear, End or the Navigation key.

- In the Settings menu, you can selet either Any Key or Send Key to answer a call. If Send Key is selected, the phone can only be answered by pressing ⤾ . See page 70 for more information.

2 To end the call, press ⤾ .

NOTE In Auto Answer Mode a call is automatically answered after a preset number of ring tones. See page 71 for more details.

CALLER ID FUNCTION

Displays the caller's name and phone number, if available, in the phone book.

NOTE The caller ID is stored in the call history.

CH 2

CALL WAITING FUNCTION

Notifies of another incoming call when you are on the phone by making a beep sound and displays the caller's phone number on the screen.

1 To answer another call while on the phone, press ⤾ . This places the first call on hold. To switch back to the first caller, press ⤾ again.

ANSWERING MACHINE DISPLAY

Displays the number of voice memos recorded in the answering machine.

1 To play the recorded voice memos, press ◉ .

Missed Calls
Stored 1 Memo
9:52 Am

PLAY

CH 2
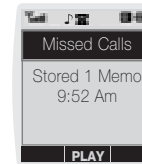
● ADJUSTING VOLUME

Adjusts the volume of the ringer, key and voice call.

1 Press and select one of the following.

- Ringer — Controls the ringer volume
- Key — Controls the keypad tone
- Voice call — Controls the earpiece volume

2 Adjust volume and press to save it.

NOTE Move the Navigation key upward or downward to adjust volume of earpiece during a call.

● ETIQUETTE

Mutes key tones and activates the vibration mode to alert you of an incoming call or message.

1 To turn etiquette mode on/off, press and hold .

Note
Etiquette mode
On

STO FIND PSE

● KEYGUARD

Locks phone allowing it to only be used after the password is entered.

1 To lock the phone, press and hold .

2 To unlock the phone, input the1, 2, 3.

Note
Enter
Keyguard Mode

STO FIND PSE

To display menu options during a call, press .

Call Menu
1 Mute
2 Silent
3 Send my phon...
4 My Profile
OK CNCL

● MUTE (UNMUTE)

The caller cannot hear you and any sound from your side, while you can hear his or her voice.

1 Press .

- To deactivate, press .
- The phone will automatically un-mute in Emergency Call or Callback mode.

● SILENT (QUIT)

Prevents the other end from hearing tones if any key is pressed during a call.

1 Press .

- Press to deactivate it.

● SEND MY PHONE

Automatically transmits your phone number to a pager during a call without manually entering the number.

1 To transmit your phone number during a call, press and .

DURING A CALL

MY PROFILE

Enables you to review and edit your profile that is entered through the phone book. Please see page 49 for more details.

1 Press ☟ (4₆₄₁) .

VOICE PRIVACY

Enhances voice privacy during a call.

1 Press ☟ (5ᴊᴋʟ) .

2 Select "Standard" or "Enhanced" with the Navigation key.

LOCATION

Enables phone to locate its current position through GPS. Please see page 77 for more details.
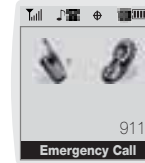
1 Press ☟ (6ᴹᴺᴼ) .

MAKING AN EMERGENCY CALL

This enhanced 911 feature puts phone in the Emergency Call Mode when you dial the preprogrammed emergency number, 911. It also operates in the lock mode and out of the service area.

E911 IN LOCK MODE

The 911 call service is available even in the lock mode.

1 Enter "911" and press ☟ .

2 The call connects.

3 The phone exits the Lock Mode for 5 minutes.

> When the call ends after 5 mins, the phone returns to the Lock Mode.

E911 USING ANY AVAILABLE SYSTEM

1 Enter "911" and press ☟ .

2 The call connects.

3 The phone maintains the Emergecy Mode for 5 minutes.

> ● The phone continuously attempts to receive service from any available system.

Chapter 3

MEMORY FUNCTION

This chapter addresses memory functions including:

■ STORING A PHONE NUMBER

■ ENTERING LETTERS, NUMBERS & CHARACTERS

■ MAKING A CALL THROUGH THE PHONE BOOK

The phonebook stores up to 300 entries.

1 Enter phone # and press ⤵ .

2 Choose Add New Entry or Add Existing Entry. Press ◯ to select.

3 The Phone # will appear next to a list of icons.
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.
Press ◯ to select.

4 Press ⤵ to display the Editor and enter a name. Follow instructions for entering text on page 31. To change the input mode, press ⤵ .
Press ◯ to store the name.

● The other fields are set to Numeric mode as a default.

5 Use the Navigation key to scroll through more options for the entry (VAD, secret).

●
Group — Family, Friends, Work, Etc
Voice dial — Home, Mobile, Office, Unassigned
Set Secret — Yes, No

6 To store the entry, press ◯ "New entry is saved" will be displayed.

The input mode (Alpha editor) will be automatically activated when necessary to enter letters and numbers. As shown below, there are 4 available modes ; Standard input mode (abc), T9 input mode (T9abc), Numeric mode (123), and Symbol mode.

The input mode indicator appears on the upper right of the display when letters and numbers are entered. To select the desired input mode among the 4 modes below, press ⤵ , then enter letters and numbers.

Input mode indicator
Abc : Abc mode
123 : Number mode
Symbol mode
🔟 : T9 mode

The following illustrates the function assigned to each key in the Alpha Editor.

KEY	FUNCTION
⤵ Case	Press to change mode. [T9abc][abc][123][Symbol mode]
[0] Next	Press to view the next matching word if the highlighted word is not the word you intended.
[#] Space	Press to accept a word and add a space.
[*] Shift	Press to select a letter case of the standard text input or T9 text input mode. [Abc], [ABC], and [abc] indicate the standard text input. [T9Abc], [T9ABC], and [T9abc] indicate the predictive text input.
Clear	Press to delete a character to the left of the cursor.
Store ◯	Store the letters and numbers you enter.

C H 3

STANDARD INPUT MODE

Use the digit keys to enter letters, numbers and characters.

1 Enter letters using the keypad as follows:

Keypad	1 Time	Repetitions 2 times	Repetitions 3 times	Repetitions 4 times	Repetitions 5 times
1	1	.	@	-	,
2ABC	A	B	C	2	A
3DEF	D	E	F	3	D
4GHI	G	H	I	4	G
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

To change the input mode, press ⌾ .

2 To enter a space, press 🔘 . After two seconds, the cursor will automatically move to the next column.

3 Repeat until letters are entered. There is a 16-letter limit.

4 To delete one digit, press 🔘 . To delete the entire entry, press and hold 🔘 .

> **e.g.**
> *Select Abc mode, by pressing [⌾].*
> *When you select this mode, the Abc icon appears as a visual confirmation.*
> *- "Find the key that corresponds to the letter you want to enter."*
> *- Press it as many times as needed for the letter to appear on the screen.*
> *- To enter the name "John":*
>   Press [5]   J
>   Press [6 6 6]   o
>   Press [4 4]   h
>   Press [6 6]   n

T9 INPUT MODE

The T9 input mode incorporates a built-in-dictionary to determine a word based on the entered characters. A word can be entered more quickly by pressing a key once per character.

1 Select the T9Abc mode with ⌾ .

2 Press a digit key once to enter the character you want and enter all the characters to input the word you want.

3 To view the next matching word, press 0 .

4 To accept matching word and enter a space, press 🔘 .

> **NOTE**
> To enter a compound word.
> ● enter the first part of the word and press [🔘] to accept it.
> ● enter the last part of the word and press [🔘] to enter the word.

> **e.g.**
> *To enter "phone book" in the T9 input mode.*
>
> *- Press [⌾] to select the T9 input mode and [✱] to choose the small letter case (T9abc).*
>
> *- Press [7 4 6 6 3] and you will see "phone" highlighted. Press [0] to see the next matching word and [🔘] to select it.*
>
> *- Press [2 6 6 5] and you will see "book" highlighted. Press [0] to move to the next matching word and [🔘] to select the compound word and enter a space.*
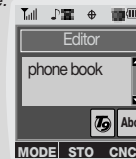
NUMERIC MODE

Enters numbers.

1 Press ⌾ until the current input mode changes to the Numeric mode.

Editor

12345

123

MODE STO CNCL

2 To enter a number, press a digit key.

C
H
3

SYMBOL MODE

Allows you to enter symbols.

1 Press ⌾ until the "Symbol mode" appears.

2 Press the number for the symbol you want to enter.

● Use the Navigation key to view a different line of symbols.

C
H
3

Press [◀⬤▶],

Editor

1 2 3 4 5 6 7 8 9 0
! @ # % & * < > -

MODE STO CNCL

Press [◀⬤▶],

Editor

1 2 3 4 5 6 7 8 9 0
+ = : " ' ( ) / ~

MODE STO CNCL

Press [◀⬤▶],

Editor

1 2 3 4 5 6 7 8 9 0
\ ? . , { } $ [ ] ^

MODE STO CNCL

MAKING A CALL THROUGH THE PHONE BOOK

SPEED DIALING

Dials a number by simply pressing its location number in the phone book. Please refer to page 49 for more information.

NOTE

- "Unassigned" appears if the location pressed is unavailable.

- A phone number that is set secret will not be displayed.

- A call can be made by pressing its entry number and ⟋ .

Chapter 4

MENU FUNCTION

This chapter addresses accessing the menu and using its functions and features to customize your phone.

- CALL HISTORY
- PHONE BOOK
- SCHEDULE
- ROAMING
- SETTING
- TOOLS
- DATA SERVICE
- LOCATION

Use the Navigation Key to access the Call History in the idle mode.

OUTGOING CALLS

Displays information about the ten most recently dialed numbers.
Saves the numbers and places call by simply pressing 🖐 .

1 To see a list of the 10 most recently dialed numbers, press 🖐 , ① and ① . 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.

2 To view outgoing call details, press the Navigation Key.

NOTE Call details include date, time and phone number.

3 Press 🔘 again to save it or press 🖐 to delete it.

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

NOTE After the tenth outgoing call, the oldest call will automatically be erased from the history.

INCOMING CALLS

Displays information of the 10 most recently answered calls. Saves the numbers and places calls by simply pressing 🖐 .

1 To see a list of the 10 most recently answered calls, press 🖐 , ① and ② . 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.

2 To view incoming call details, press the Navigation Key.
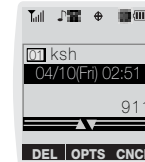
NOTE Call details include date, time and phone number.

3 Press 🔘 again to save it or press 🖐 to delete it.

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 To see a list of the 10 most recently missed calls, press 🔍 , ① and ③ . 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.

2 To view missed call details, press the Navigation Key.

> **NOTE** Call details include date, time and phone number.

3 Press 🔘 again to save it or press 🔍 to delete it.

> "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.

CALL TIMES

Checks the talk time and manages your calls within the limit you set. The four timers include:

LAST CALL

Displays talk time of last call.

1 Press 🔍 ① ④ ① .

2 To return to the previous page, press ⊘ .

> Last Call
> 003Min/ 16Sec
> CNCL
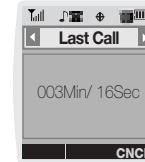
ALL CALLS

Displays talk time of all incoming and outgoing calls, excluding web access calls.

1 Press 🔍 ① ④ ② and the message "Not intended for billing purposes" appears for 5 seconds.

2 Use the Navigation Key to view the time of the following items:

> - Voice, Data/Fax

> Voice
> XXX Calls
> XXX Hours
> XX Mins
> XX Secs
> CNCL
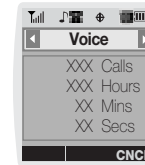
3 To return to the previous page, press ⊘ .

C
H
4

HOME CALLS

Displays talk time of all calls made within Home area.

1 Press ⌛ ①.・ ④ᵍ ③ᴰᴱᶠ and the message "Not intended for billing purposes" appears for 5 seconds.

2 Use the Navigation Key to view the time of the following items:

> - Voice, Data/Fax

3 To reset the timer, press ⌛ . To return to the previous page, press ⌀ .

ROAM CALLS

Displays talk time of roaming calls.

1 Press ⌛ ①.・ ④ᵍ ④ᵍ and the message "Not intended for billing purposes" appears for 5 seconds.

2 Use the Navigation Key to view the time of the following items:

> - Voice, Data/Fax

3 To reset the timer, press ⌛ . To return to the previous page, press ⌀ .

ACCUMULATED CALLS

Displays talk time of accumulated calls.

1 Press ⌛ ①.・ ④ᵍ ⑤ᴶᴷᴸ and the message "Not intended for billing purposes" appears for 5 seconds.

2 Use the Navigation Key to view the time of the following items:

> - Voice, Data/Fax

3 To reset the timer, press ⌛ . To return to the previous page, press ⌀ .

Stores up to 300 entries, each of which can be assigned to a group. Entries can be retrieved by name, phone number or group.

● FIND

Retrieves an entry by group, voice name, name and number, and calls by simply pressing ⌛ .

BY GROUP

1 Press ⌛ ②ᴬᴮᶜ ①.・ ①.・ .

2 Select one of the following options (Family, Friends, Work, Etc, All) with the Navigation key.

3 To retrieve the phone book by group, press the Navigation key.

4 All group entries will be displayed. Select an entry and either delete it by pressing ⌛ or view it by pressing the Navigation Key.

> If the entry is set to secret, you will be asked for your password.

5 To call a selected number, press ⌛ .

BY NAME

1 Press 🖊 2ABC 1.⎯ 2ABC .

Tₐₗₗ ♪📷 ⊕ 📶

Editor

Abc

MODE FIND CNCL

2 Enter a name or its character string and press the Navigation Key to display the names in alphabetical order. Please refer to page 31 about using the Alpha Editor.

> If there is no match, "Cannot Find Name" will appear.

3 All matching entries will be displayed. Select an entry and either delete it by pressing 🖊 or view it by pressing the Navigation Key.

> If the entry is set to secret, you will be asked for your password.

4 To call the selected number, press 📞 .

BY NUMBER

1 Press 🖊 2ABC 1.⎯ 3DEF .

Tₐₗₗ ♪📷 ⊕ 📶

Editor

123

FIND CNCL

2 To search through the menu, enter a part of the phone number and press the Navigation Key.

> If there is no match, "Cannot Find Number" will appear.

3 All matching entries will be displayed. Select an entry and either delete it by pressing 🖊 or view it by pressing the Navigation Key.

> If the entry is set to secret, you will be asked for your password.

4 To call the selected number, press 📞 .

C
H
4

EDIT PHONE BOOK

Adds a new entry or edits an existing one.

ADD NEW ENTRY

1 To add a new entry to the phone book, press ◯ 2ᴬᴮᶜ 2ᴬᴮᶜ 1.͏ .

2 To enter a name or number, use the Navigation Key to select the phone book field.

3 To save the entry, press ◯ . To return to the previous page, press ◯ .

EDIT EXISTING ENTRY

1 To edit an existing entry, press ◯ 2ᴬᴮᶜ 2ᴬᴮᶜ 2ᴬᴮᶜ .

2 Use the Navigation Key to select a group.

Family, Friends, Work, Etc, All

3 Select an entry with the Navigation Key and press it to view and edit the entry, or ◯ to delete it.

EDIT GROUP

Adds, changes and deletes groups.

ADD NEW GROUP

1 To add a new group, press ◯ 2ᴬᴮᶜ 3ᴰᴱᶠ 1.͏ . A maximum of seven groups is allowed.

2 Input a new group name.

3 Press ◯ to save it.

CHANGE GROUP NAME

1 To change a new group, press ◯ 2ᴬᴮᶜ 3ᴰᴱᶠ 2ᴬᴮᶜ .

2 Select an existing group name with the Navigation key.

3 Input a new name.

4 Press ◯ to save it and press again to confirm.

CHANGE GROUP BELL

1 To change a group bell, press
⌣ 2ABC 3DEF 3DEF .

2 Select the group to be changed
and use the Navigation Key to
select one of the bell options.

3 To save, press the Navigation Key.

Yᴵₗₗ ♪☎ ⊕ ▇▇▇
Select Group

Family
Friends
Work
Etc.

OK | CNCL

CLEAR GROUP

1 To delete an existing group,
press ⌣ 2ABC 3DEF 4GHI .

2 Use the Navigation Key to
select, then delete the group.
Press again to confirm.

3 Press ⬤ to delete it.

4 Press ⬤ again to confirm it.

Yᴵₗₗ ♪☎ ⊕ ▇▇▇
Select Group

Family
Friends
Work
Etc.

OK | CNCL

C
H
4

● SPEED DIAL

In idle mode, calls can be placed to numbers stored in speed dial by
pressing its location number on the keypad.

1 Press ⌣ 2ABC 4GHI .

2 To assign a phone number to a
location, select the location and
press the Navigation Key.

Yᴵₗₗ ♪☎ ⊕ ▇▇▇
Select Number

01 John
02 123
03 abcdef
04 ksh

DEL | OK | CNCL
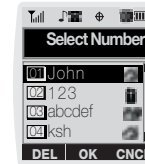
> If a phone number is already
> assigned to the location, press ⌣
> and the Navigation Key to delete.

3 Locate the entry in the group where it is saved
then press the Navigation Key.

4 Select the entry and press the Navigation Key;
select the phone number and press the
Navigation Key again.

● MY PROFILE

Saves your personal information.

1 Press ⌣ 2ABC 5JKL to review and edit your
personal information as follows. (Name, My Phone
number, Birthday, Blood Type, Address, Home, E-
Mail, Work Phone #, Memo, Set Secret)

2 Press ⌣ to edit on item when selected.

3 Press ⬤ to confirm and save it.

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H
4

Sets an event and reminds you when it's time to take place.

EVENT

NEW EVENT

1 To display a calendar, press ⌕ [MENU] ③ ① ① .

```
Tooll  ♪📶 ⊕ 📶
4        April 2002
Su M Tu W Th F Sa
    1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30
NEW   OK   CNCL
```

2 Move the Navigation key to choose a date in the calendar and press ◯ [OK].

```
Tooll  ♪📶 ⊕ 📶
Event Setting
1 Time Setting
2 Melody Setting

       OK   CNCL
```
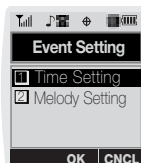
3 1. To set a time for an event, press ① .

- Choose one of the following on the first line: On time, 10 Min before, 30 Min before, 1 Hour before, No alarm by pressing the Navigation key left and right.
- Use the Navigation Key to move to year, month, day, time and input using the digit keys.

2. To set a melody for the event, press ② . Select a melody with the Navigation Key.

4 Press ◯ to save it or ⊘ to return to the calendar.

- The date of the event will be marked on your calendar.

VIEW EVENT LIST

1 To display all Event List, press ⌕ ③ ① ② .

2 Move the Navigation key to choose a list and press ◯ and choose one at the ⌕ , ◯ , ⊘ .

ALARM

You can set up to 3 alarms.

1 To display alarm entries, press ⌕ [MENU] ③ ② .

```
Tooll  ♪📶   📶
Alarm
1 Item 1
2 Item 2
3 Item 3

DEL   OK   CNCL
```

2 Select one of the entries with the Navigation key.To set a new alarm, choose item 1, 2 or 3. To edit an existing alarm, select that alarm. Press ◯ [OK].

- To delete the existing one, press ⌕ .

```
Tooll  ♪📶   📶
Alarm Setting
1 Time Setting
2 Melody Setting
3 Snooze Setting
4 Pause Setting
     OK   CNCL
```

3 1. To set a time, press ① from the Alarm Setting Menu.

- Use the Navigation Key to choose an alarm frequency (Once, Daily, Weekly, Monthly, Yearly). To save, press ⌕ [STO]. "Save Complete" will be displayed and the screen will return to the alarm list.

```
Tooll  ♪📶   📶
Time Setting
Once
04/16/2002
PM 05:30
meeting
STO   ♪₀ₗ  CNCL
```
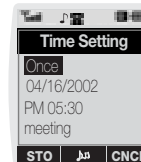
2. To set a melody, press ② from the Alarm Setting Menu.

- Use the Navigation key to scroll through the list of 10 ring tones and 30 melody tones. To set a melody, press ◯ [OK]

3. To set a snooze, press ③ from the Alarm Setting Menu.

- Select one of the following:
No Use, 1 Time After 3 Minutes, 1Time After 5 Minutes, 3 Times By 3 Minites.

4. To set a pause, press ④ from the Alarm Setting Menu.

NOTE • Pause setting is available for existing alarms. It is not available for new entries.

C H 4

Scans the channels to stay connected to any available Verizon system.

SET MODE

Selects the Preferred System.

1 Press ⊝ (4GHI) (1.–).

2 Select one of the following options (Automatic A/Automatic B/Home only) with the Navigation key and press ⚫.

	Set Mode
☑	Automatic B
☐	Automatic A
☐	Home Only
	OK	CNCL

> Auto A : Scan the radio channels based on the Automatic A setting.
> Auto B : Scan the radio channels based on the Automatic B setting.
> Home only : Only within your home area or home affiliated area.

FORCE ANALOG

Temporarily forces phone to use Analog mode – mode automatically ends in 10 minutes.

1 Press ⊝ (4GHI) (2ABC).

2 Select "Yes" or "No" with the Navigation key and press ⚫ to activate it.

	Force Analog
☑	No
☐	Yes
	OK	CNCL
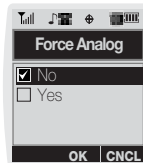
NAM SETTING

Enables Auto NAM (Number Assignment Modules) or manually selects a NAM.

AUTO NAM

Automatically switches phone to proper NAM when you have multiple NAM registrations.

1 Press ⊝ (4GHI) (3DEF) (1.–).

2 Select "Yes" or "No", then press ⚫ to save it.

	Auto NAM
☑	No
☐	Yes
	OK	CNCL
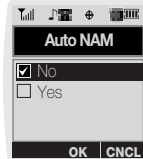
CHANGE NAM

Changes the NAM used by the phone when you have multiple registrations.

1 Press ⊝ (4GHI) (3DEF) (2ABC).

2 Select a NAM (NAM1,NAM2) with the Navigation key and press ⚫ to save it.

	Change NAM
☑	NAM1-VERIZ...
☐	NAM2-VERIZ...
	OK	CNCL
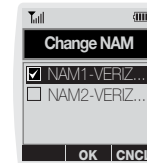
CALL PROMPT

Notifies you when you are in a roaming service area and will be charged for incoming calls.

1 Press ⊝ (4GHI) (4GHI).

2 Select one of the following options and press ⚫ to confirm it.

	Call Prompt
☐	Off
☐	On
☑	7 Secs
	OK	CNCL
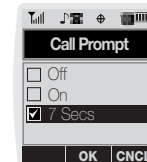
> ● Off : No display [TO BE CHARGED]
> ● On : Display [TO BE CHARGED] until the user answers an incoming call
> ● 7 seconds : Display [TO BE CHARGED] for only 7 seconds and return to normal.

PRL ID

Displays the phone's PRL (Preferred Roaming List) ID.

1 Press ⊝ (4GHI) (5JKL).

PRL ID
1
ERI VERSION
00000
OK	CNCL
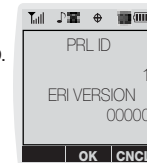
NOTE
> ● Cellular systems are identified by a number called the System Identification Number or SID.
> Your phone is equipped with a Preferred Roaming LIst (PRL) which can be programmed by your Carrier to take advantage of the families of cellular systems (SIDs) that your Carrier owns or has special billing arrangements with in various cities.

CH 4

SETTING

Customizes your phone and optimizes performance through a variety of settings.

● SOUNDS

Sets Ringer Type, Ringer Mode, Volume, Alert, Roam Ringer and Tone Length.

RINGER TYPE

To select a ringer type for incoming calls:

1 Press ⬳ 5ᴶᴷᴸ 1.₊ 1.₊ .

2 Select one ringer type from 30 melodies and 10 ringer tones.

3 To confirm, press ⬳ .

Ringer Type
- ☑ Ringer 1
- ☐ Ringer 2
- ☐ Ringer 3
- ☐ Ringer 4

OK | CNCL

RINGER MODE

Alerts you to incoming calls in the following modes:

1 Press ⬳ 5ᴶᴷᴸ 1.₊ 2ᴬᴮᶜ .

2 Select one of the following options with the Navigation key.

Ringer Mode
- ☑ Ringer
- ☐ Vibrate
- ☐ Ringer After V...
- ☐ Silent

OK | CNCL

- ● Ringer
- ● Vibrate
- ● Ringer after Vibrate – The ringer sounds off after vibration.
- ● Silent – Mute the ringer

3 To confirm, press ⬤ .

SETTING

VOLUME

Controls the Ringer, Key and Voice Call volume.

RINGER

To adjust Ringer volume:

1 Press ⬳ 5ᴶᴷᴸ 1.₊ 3ᴰᴱꟳ 1.₊ .

2 Adjust the ringer volume with the Navigation key.

3 To save, press ⬤ .

KEY

To adjust keypad tone:

1 Press ⬳ 5ᴶᴷᴸ 1.₊ 3ᴰᴱꟳ 2ᴬᴮᶜ .

2 Adjust the keypad tone with the Navigation key.

3 To save, press ⬤ .

VOICE CALL

To adjust earpiece volume:

1 Press ⊘ 5ᴶᴷᴸ 1.₋ 3ᴰᴱᶠ 3ᴰᴱᶠ .

2 Adjust the earpiece volume with the Navigation key.

3 To save, press ⚫ .

ALERT

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

MINUTE ALERT

Sounds an alert every minute of a phone call.

1 Press ⊘ 5ᴶᴷᴸ 1.₋ 4ᴳᴴᴵ 1.₋ .

Tₐₗₗ 🎵📟 ⊕ 🔋
Minute Alert
☑ Off
☐ On

OK | CNCL

2 Select "OFF" or "ON" with the Navigation key and press ⚫ to save it.

ROAM ALERT

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

1 Press ⊘ 5ᴶᴷᴸ 1.₋ 4ᴳᴴᴵ 2ᴬᴮᶜ .

Tₐₗₗ 🎵📟 ⊕ 🔋
Roam Alert
☑ Off
☐ On

OK | CNCL
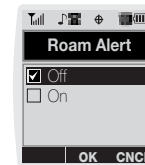
2 Select "OFF" or "ON" with the Navigation key and press ⚫ to save it.

CONNECT ALERT

Notifies you that a call has been successfully placed.

1 Press ⊘ 5ᴶᴷᴸ 1.₋ 4ᴳᴴᴵ 3ᴰᴱᶠ .

Tₐₗₗ 🎵📟 ⊕ 🔋
Connect Alert
☑ Off
☐ On

OK | CNCL

2 Select "OFF" or "ON" with the Navigation key and press ⚫ to save it.

C H 4

FADE ALERT

Sounds an alert entering an area where calls cannot be made due to weak signal strength. The alert sounds during a call.

1 Press ⊜ 5ᴶᴷᴸ 1.₋ 4ᴳᴴ 4ᴳᴴ .

> **Fade Alert**
> ☑ Off
> ☐ On
>
> OK | CNCL

2 Select "OFF" or "ON" with the Navigation key and press ⭕ to save it.

LOW SIGNAL ALERT

Sounds an alert when you encounter low signal strength.

1 Press ⊜ 5ᴶᴷᴸ 1.₋ 4ᴳᴴ 5ᴶᴷᴸ .

> **Low Signal Alert**
> ☑ Off
> ☐ On
>
> OK | CNCL
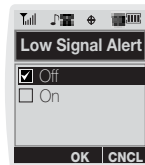
2 Select "OFF" or "ON" with the Navigation key and press ⭕ to save it.

ROAM RINGER

Sounds a different ringer when you are in a roaming service area.

1 Press ⊜ 5ᴶᴷᴸ 1.₋ 5ᴶᴷᴸ .

> **Roam Ringer**
> ☑ Normal
> ☐ Distinctive
>
> OK | CNCL
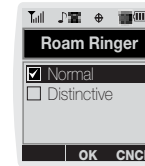
2 Select "Distinctive" or "Normal" with the Navigation key and press ⭕ to save it.

> ● Distinctive — Sounds a different ringer type
> ● Normal — Sounds the same ringer type as used in Home area.

TONE LENGTH

To adjust tone length:

1 Press ⊜ 5ᴶᴷᴸ 1.₋ 6ᴹᴺᴼ .

> **Tone Length**
> ☑ Normal
> ☐ Long
>
> OK | CNCL
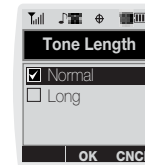
2 Select "Normal" or "Long" with the Navigation key and press ⭕ to save it.

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● DISPLAY

Allows you to customize display.

ANIMATION SETTING

To select an LCD display:

IDLE DISPLAY

1 Press ⌇ 5ʲᴷᴸ 2ᴬᴮᶜ 1. 1. .

2 Select a display from the Animation list by moving the Navigation Key up, down, left or right.

3 To save, press ⬤ .

POWER ON

1 Press ⌇ 5ʲᴷᴸ 2ᴬᴮᶜ 1. 2ᴬᴮᶜ .

2 Select a display from the Animation list by moving the Navigation Key up, down, left or right.

3 To save, press ⬤ .

POWER OFF

1 Press ⌇ 5ʲᴷᴸ 2ᴬᴮᶜ 1. 3ᴰᴱᶠ .

2 Select a display from the Animation list by moving the Navigation Key up, down, left or right.

3 To save, press ⬤ .

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H
4

MAIN DISPLAY SETTING

GREETING INPUT

To input a personal greeting:

1 Press ⌇ 5ʲᴷᴸ 2ᴬᴮᶜ 2ᴬᴮᶜ 1. .

2 To edit the greeting, press the Navigation Key.

3 Input your personal greeting, using the Alpha Editor. (Refer to page 33).

4 To save, press the Navigation Key.

IDLE CLOCK

To display a clock on the LCD:

1 Press ⌇ 5ʲᴷᴸ 2ᴬᴮᶜ 2ᴬᴮᶜ 2ᴬᴮᶜ .

2 Select one of the following options and press the Navigation Key to save it.

● Digital Clock
● Analog Clock
● Greeting Clock
● Animation + Clock

C
H
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LCD SETTING

Controls backlight and LCD contrast for a better view and more efficient use.

BACKLIGHTING

Backlights the display and keypad for easy viewing in dark places.

1 Press ⌣ 5 2 3 1 .

2 Select one of the following options; 5 secs, 10 secs, 20 secs Off.
To save, press ◉ .

Backlighting
☑ 5 Secs
☐ 10 Secs
☐ 20 Secs
☐ Off

OK   CNCL

● Off : Turn the backlight off.
● 5 secs, 10 secs, 20 secs : Backlight on for 5, 10, or 20 seconds respectively after a touch of the keypad.

CONTRAST

To adjust the display contrast:

1 Press ⌣ 5 2 3 2 .

2 Adjust the LCD contrast for better view.

3 To save, press ◉ .

OK   CNCL

● SECURITY

Prevents the unauthorized use of the handset and only allows access to certain features to those who have the password.

RESTRICT

When you attempt to make a restricted call, "This phone is restricted" appears on the screen.

AUTOMATIC LOCK

Prevents others from using your phone without permission.
When locked, the menu can not be accessed without password.

1 Press ⌣ 5 3 and enter "Password".

Security
1 Restrict
2 Special #'s
3 Clear Phoneb
4 Reset Phone

OK   CNCL

NOTE The default password is the last 4 digits of your phone number.

2 Press 1 1 and select "Off", "Lock Now" or "Power Up".

Automatic Lock
☑ Off
☐ Lock Now
☐ Lock On Power..

OK   CNCL

● Off — Do not lock the phone
● Lock Now — Lock the phone now
● Lock On Power Up — Lock the phone whenever it is turned on.

3 To save, press ◉ .

INCOMING CALL

Blocks all incoming calls but allows outgoing calls to be placed.

1 Press ⬅ 5 3 and enter "Password".

2 Press 1 2 and select "Allow" or "Restrict" with the Navigation key.

- Restrict : Restricts incoming calls
- Allow : Allows incoming calls
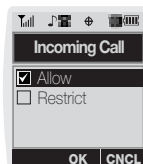
3 To save, press ⬤ .

OUTGOING CALL

Blocks all outgoing calls – except emergency calls – but allows incoming calls to be placed.

1 Press ⬅ 5 3 and enter "Password".

2 Press 1 3 and select "Allow" or "Restrict" with the Navigation key.

- Restrict : Restricts outgoing calls
- Allow : Allows outgoing calls

3 To save, press ⬤ .

INCOMING CALL HISTORY

1 Press ⬅ 5 3 and enter "Password".

2 Press 1 4 and select "Allow" or "Restrict" with the Navigation key.

- Restrict : Restrict access to incoming call history
- Allow : Allow access to incoming call history

3 To save, press ⬤ .

OUTGOING CALL HISTORY

1 Press ⬅ 5 3 and enter "Password".

2 Press 1 5 and select "Allow" or "Restrict" with the Navigation key.

- Restrict : Restrict access to the outgong call history.
- Allow : Allow access to the outgong call history.

3 To save, press ⬤ .

MENU

Restricts access to the menu.

1 Press ⬅ 5 3 and enter "Password".

2 Press 1 6 and select "Allow" or "Restrict" with the Navigation key.

- Restrict : Restrict access to the menu
- Allow : Allow access to the menu

3 To save, press ⬤ .

PHONE BOOK

Blocks access to, and protects data in your phone book.

1 Press ⬅ 5 3 and enter "Password".

2 Press 1 7 and select "Allow" or "Restrict" with the Navigation key.

- Restrict : Restrict access to the phone book
- Allow : Allow access to the phone book.

3 To save, press ⬤ .

DATA CALL

Restricts data calls from being placed.

1 Press 🔍 5ᴶᴷᴸ 3ᴰᴱᶠ and enter "Password".

2 Press 1.- 8ᵀᵁⱽ and select "Allow" or "Restrict" with the Navigation key.

Tₐₗₗ 🎵📶 ⊕ 📶🔋
Data Call
☑ Allow
☐ Restrict

OK   CNCL

- Restrict : Restricts data calls
- Allow : Allows data calls

3 To save, press 🔘 .

900#S

Restricts calling 900 dial service Numbers.

1 Press 🔍 5ᴶᴷᴸ 3ᴰᴱᶠ and enter "Password".

2 Press 1.- 9ᵂˣʸ�z and select "Allow" or "Restrict" with the Navigation key.

Tₐₗₗ 🎵📶 ⊕ 📶🔋
900#s
☑ Allow
☐ Restrict

OK   CNCL

- Restrict : Restricts calls to 900-dial services
- Allow : Allows calls to 900-dial services

3 To save, press 🔘 .

LONG DISTANCE CALLS

Restricts calling long distance numbers – the phone is limited to calling numbers within the area.

1 Press 🔍 5ᴶᴷᴸ 3ᴰᴱᶠ and enter "Password".

2 Press 1.- 0 and select "Allow" or "Restrict" with the Navigation key.

Tₐₗₗ 🎵📶 ⊕ 📶🔋
Long Distance
☑ Allow
☐ Restrict

OK   CNCL

- Restrict: Restricts long distance calls
- Allow: Allows long distance calls

3 To save, press 🔘 .

NOTE A phone number over 7 digits is to be restricted.

SPECIAL NUMBER

Stores 3 phone numbers that can be called even in the lock mode.

1 Press 🔍 5ᴶᴷᴸ 3ᴰᴱᶠ and enter "Password".

Tₐₗₗ 🎵📶 ⊕ 📶🔋
💾 **Security**
1 Restrict
2 Special #'s
3 Clear Phoneb
4 Reset Phone
OK   CNCL

2 Press 2ᴬᴮᶜ and select a location with the Navigation key.

Tₐₗₗ 🎵📶 ⊕ 📶🔋
Special #'s
1 Empty1
2 Empty2
3 Empty3

OK   CNCL

3 Press the Navigation Key and input a phone number; press again to save.

CH4

CLEAR PHONE BOOK

Clears all phone book entries.

1 Press ⬡ 5ʲᴷᴸ 3ᴰᴱᶠ and enter "Password".

2 Press 3ᴰᴱᶠ .

3 Select "Yes" or "No" with the Navigation key. Press ⬤ .

RESET PHONE

Resets phone to default settings.

1 Press ⬡ 5ʲᴷᴸ 3ᴰᴱᶠ and enter "Password".

2 Press 4ᴳᴴᴵ .

3 Select "Yes" or "No" with the Navigation key. Press ⬤ .

> When you select Yes , you will see Wait a moment on the display and the phone will return to idle mode.

CHANGE PASSWORD

Changes your 4-digit password

1 Press ⬡ 5ʲᴷᴸ 3ᴰᴱᶠ and enter "Password".

2 Press 5ʲᴷᴸ .

NOTE The default password is the last 4 digits of your phone number.

3 Enter a new password and press ⬤ .

4 Enter the new password again and press ⬤ .

OTHERS

ANSWER MODE

To select an answer mode:

1 Press 🔽 5ᴶᴷᴸ 4ᴳʰᴵ 1.

2 Select "Any Key" or "Send Key" with the Navigation key.

> Answer Mode
> ☑ Any Key
> ☐ Send Key
>
> OK CNCL
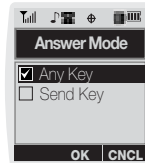
- Any Key — Press any key to answer an incoming call except 🔘, 📵, and 🔘 .
- Send Key — Press only 🔽 to answer a call.

3 To save, press 🔘 .

AUTO RETRY

Automatically retries a call up to 5 times after a set time interval.

RETRY TIME

1 Press 🔽 5ᴶᴷᴸ 4ᴳʰᴵ 2ᴬᴮᶜ 1.

2 Select a time interval option (Off, 3, 5, 7, 10 seconds) with the Navigation key. To save, press 🔽 .

> Retry Time
> ☑ Off
> ☐ 3 Secs
> ☐ 5 Secs
> ☐ 7 Secs
>
> OK CNCL

REPEAT

1 Press 🔽 5ᴶᴷᴸ 4ᴳʰᴵ 2ᴬᴮᶜ 2ᴬᴮᶜ .

2 Select one of the options (1 time, 3 times, 5 times) with the Navigation key. To save, press 🔘 .

> Repeat
> ☑ 1 Time
> ☐ 3 Times
> ☐ 5 Times
>
> OK CNCL

AUTO ANSWER

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

1 Press 🔽 5ᴶᴷᴸ 4ᴳʰᴵ 3ᴰᴱᶠ .

2 Select one of the following with the Navigation key.

- Off/5/10/18 seconds.

> Auto Answer
> ☑ Off
> ☐ 5 Secs
> ☐ 10 Secs
> ☐ 18 Secs
>
> OK CNCL
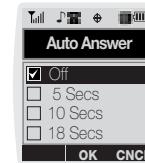
> **NOTE** This function will not be active when you select Vibrate, Silent, or Ringer after Vib as a ringer mode.

3 To save, press 🔘 .

VOICE PRIVACY

Enhances voice privacy and avoids tapping during a call.

1 Press 🔽 5ᴶᴷᴸ 4ᴳʰᴵ 4ᴳʰᴵ .

2 Select "Standard" or "Enhanced", if available. To save, press 🔘 .

> Voice Privacy
> ☑ Standard
> ☐ Enhanced
>
> OK CNCL

- Enhanced - Makes it more difficult to wire tap.

KEY GUARD

1 Press ☜ 5ᴶᴷᴸ 4ᴳᴴᴵ 5ᴶᴷᴸ .

2 Select "On" or "Off" with the Navigation key.

- On: Prevents accidentally pressing the keypad
- Off: Key guard off

3 To save, press ⬤ .

NOTE To unlock the key guard, press 1 2ᴬᴮᶜ 3ᴰᴱᶠ .

LANGUAGE

Selects the language in which letters are displayed on screen.

1 Press ☜ 5ᴶᴷᴸ 4ᴳᴴᴵ 6ᴹᴺᴼ .

2 Select English or Spanish.

3 To save, press ⬤ .

WEB IDLE TIME

Disconnects from a network when there is no key input for a certain amount of time.

1 Press ☜ 5ᴶᴷᴸ 4ᴳᴴᴵ 7ᴾᏉᴿˢ .

2 Use the Navigation key to set the web idle timer or press the digit keys one by one to enter the time.

3 To save, press ⬤ .

S/W VERSION

To display the version of your phone:

1 Press ☜ 5ᴶᴷᴸ 4ᴳᴴᴵ 8ᵀᵁⱽ .

2 Displays the software and hardware version.

● UP PROXY IP

The phone can have up to 3 sets of server IP (Internet Protocal) addresses and Port numbers to access your service provider's website. These may already be preset or be separately programmed by your service provider. Please note that any change to these settings may disable the Web access capability.

1 Press ☜ 5ᴶᴷᴸ 5ᴶᴷᴸ .

C
H
4

CALCULATOR

To access the calculator:

1 Press 🔎 ⑥ᴹᴺᴼ ①.

2 Follow the instructions below to calculate (8*6)/4-2.5

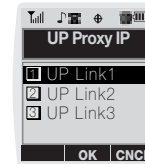> Input 8.
> Move the Navigation key leftward.
> Input 6 and press the Navigation key.
> Move it rightward.
> Input 4 and press the Navigation key.
> Move it downward.
> Input 2 and press the 🔎 to input ✱.
> Press 5, ⚫.

3 To reset, press 🔎 .

WORLD CLOCK

Notifies you of the time in a specific preprogrammed city.

1 Press 🔎 ⑥ᴹᴺᴼ ②ᴬᴮᶜ .

2 Select a city with the Navigation key and press ⚫ .

3 The world map displays with the city, its date and time.

> Use the Navigation key to select another city.

STOPWATCH

Simultaneously times up to six different events. To operate the stopwatch:

1 Press 🔎 ⑥ᴹᴺᴼ ③ᴰᴱᶠ .

2 To measure a time period.
1. To start the stopwatch, press ⚫ .
2. To pause it, press ⚫ .
3. To resume it or 🔎 to return to the previous page, press ⚫ .

3 To time up to six events at once:
1. To start, press ⚫ .
2. To stop a time period and continue measuring another one, press 🔎 .
3. To stop the second and continue measuring a third one, press 🔎 .
4. To measure up to six time periods, repeat the above steps.
5. To stop, press ⚫ . To review the result press 🔎 .
6. To reset it, press 🔎 .
7. To return to the previons page, press 🔎 .

DATA SERVICE

Transfers data from to PC.

● CONNECTION

Select a connection mode based on how the handset will be used.

1 Press ⌒ (7) (1) .

2 Select one of the following connection modes with the Navigation key.

T.ıll ♪☰ ⊕ ▮▮▮▮
Connection
☑ Voice Call
☐ Data Only
☐ Fax Only
OK   CNCL

- Voice Call : To receive a voice call
- Data Only : To receive data when connected to PC.
- Fax Only : To function as a fax when connected to PC.

3 To save, press ◉ .

NOTE This function is available only when the phone is connected to data cable.

● DATA SPEED

Select a speed that best optimizes data flow.

1 Press ⌒ (7) (2) .

2 Select one of the following data speed with the Navigation key.

T.ıll ♪☰ ⊕ ▮▮▮▮
Data Speed
☑ 19200 BPS
☐ 115200 BPS
☐ 230400 BPS
OK   CNCL
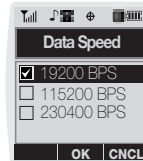
- 19200 BPS,   115200BPS,   230400BPS

3 To save, press ◉ .

LOCATION

Enables Verizon network system to locate your position and allows the use of some Verizon wireless applications.

● SETTING

To determine whether or not the network system can detect your position:

1 Press ⌒ (8) (1) .

2 Press any key when you see a message.

3 Select "Location On" or "911 Only" with the Navigation key.

- 911 Only - Your location will be hidden from network & application except 911
- Location On — Your location is now available to the network.

CH
4

Chapter 5

VOICE SERVICE

CH
5

This chapter addresses Voice Service, an advanced feature that allows you to place calls using your voice. With Voice Memo (VM) you can record voice messages and set the Answering Machine. Topics include:

- VOICE RECOGNITION MODE
- VOICE SERVICE MENU

VOICE RECOGNITION MODE

Voice Recognition (VR) enables you to place calls using your voice and to record voice memos.

1 Press and hold 🔽 until your phone turns to Voice Recognition mode.

2 The display to the right will appear when the phone turns on Voice Recognition mode.

Tₐₗₗ 🎵🔋 ⊕ ▮▮▮▮
VR Mode

Say a name or a command

MENU ◼◼◼◼ SMS

NOTE Depending on the prompt mode, expert or beginner, you will hear either of the following prompts. The second prompt automatically plays when nothing is said. (Please see page 92 for more information on prompt modes.)
Beginner Mode
 - 1ˢᵗ : "Main Menu"
 - 2ⁿᵈ : "Speak a name to call, or say dial, redial, voice memo, phone book or cancel".
Expert Mode
 - 1ˢᵗ : A sequence of low tone and high tone.
 - 2ⁿᵈ : "Main Menu"
Once you say your selection, you will be taken through each of the procedures (name, dial, redial, voice memo, phone book, cancel).

● NAME

1 Press and hold 🔽 until your phone turns to Voice Recognition mode.

2 If you say a name or tag that is already in the phone book, the number and name will appear on the display, and you will hear "Calling <name>".

Tₐₗₗ 🎵🔋 ⊕ ▮▮▮▮
Name Dial

Calling....
Johnsmith
720-XXXX

MENU ◼◼◼◼ SMS

VOICE RECOGNITION MODE

● DIAL

1 Press and hold 🔽 until your phone turns to Voice Recognition mode.

2 Say "Dial" in the Voice Recognition mode and you will see the display on the right.

Tₐₗₗ 🎵🔋 ⊕ ▮▮▮▮
Digit Dial

Say digits one at a time, or command

MENU ◼◼◼◼ SMS

Tₐₗₗ 🎵🔋 ⊕ ▮▮▮▮
Digit Dial

XX-XXX-XXXX

MENU ◼◼◼◼ SMS

NOTE Depending on the prompt mode, expert or beginner, you will hear either of the following prompts. The second prompt automatically plays when nothing is said. (Please see page 92 for more information on prompt modes.)
Beginner Mode
 - 1ˢᵗ prompt: "Digit menu"
 - 2ⁿᵈ prompt: "Say digits or verify, cancel, clear or call."
Expert Mode
 - 1ˢᵗ prompt: A sequence of high and low tones sound
 - 2ⁿᵈ prompt: "Digit menu"

3 Press or say the digits of the phone number.

4 Say "Call" after entering the entire number.

REDIAL

1 Press and hold 📞 until your phone turns to Voice Recognition mode.

2 Say "Redial" to dial the last dialed number.

Redial

Calling...
John smith
720-XXXX

MENU   SMS

VOICE MEMO

1 Press and hold 📞 until your phone turns to Voice Recognition mode.

VR Mode

Voice Memo

MENU   SMS

2 Say "Voice Memo" and follow the steps as instructed in the display.

note

Please begin recording after the prompt tone

MENU   SMS

3 To stop recording a memo, press 🔘 and ⬭ .

Record

0:55

STOP PAUS

NOTE
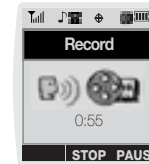
To pause, press ⬭ . To resume, press 🔘 .

4 After recording a voice memo you can REVIEW, RE-RECORD, or SAVE.

Record

1 Review
2 Re-record
3 Save

OK   CNCL

82

83

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H
5

PHONE BOOK

1 Press and hold 🔽 until your phone turns to Voice Recognition mode.

> **Phone Book**
> Listing Voice tags
>
> MENU   SMS

2 Say "Phone book"

> All phone book entries with voice tags will appear and be played.

> **Phone Book**
> Kim
>   720-XXXX
> MENU   SMS

> **NOTE** To call a phone number with an attached voice tag, say "yes" while the voice tag is playing.

CANCEL

1 Press and hold 🔽 until your phone turns to Voice Recognition mode.

2 To exit the Voice Recognition mode or return to the standby mode, say "cancel."

VOICE MEMO

1 Press 🔽 9️⃣ to start Voice Service menu.

> **Voice Service**
> Voice Memo
> Call Answer
> Voice Comm..
> Voice Dial
>   OK   CNCL

2 To enter a voice memo, press 1️⃣ .

> **Voice Memo**
> 1 Record
> 2 Play
> 3 Clear All
>   OK   CNCL

3 To record a voice memo, press 1️⃣ . Instructions will be displayed and you will hear "Please record at the tone."

> **Note**
> Please begin recording after the prompt tone
>   OK   CNCL

> ● To view and play voice memos, press 2️⃣ .
> ● To erase all voice memos, press 3️⃣ .

4 To stop recording a memo, press ⚫ .

> **Record**
> 0:55
>   STOP PAUS

> **NOTE** To pause, press ✏️ . To resume, press ⚫ .

5 After recording a voice memo you can REVIEW, RE-RECORD, or SAVE.

> **Record**
> 1 Review
> 2 Re-record
> 3 Save
>   OK   CNCL

CALL ANSWER

Helps operate the answering machine.

1 Press ⟲ 9ʷˣʸᶻ .

2 Press 2ᴬᴮᶜ .

Call Answer
1 On/Off
2 Inbox
3 Greeting
4 Call Speaker
OK CNCL

3 Select one of the following options with the Navigation key and press ⬤ .

> ON/OFF : Turns the Auto Answering machine on/off.
> INBOX : Play or erase a recorded memo.
> GREETING : Records, plays and erases personalized greeting. Greeting is limited to 30 seconds.
> CALL SPEAKER ON (OFF): While recording, you can(not) hear the caller s voice in the Auto Answering machine.
> WAIT TIME : No Ringer, 5s, 10s, 18s. The answering machine will be operated in a specific time.

> **Icons in the stored memo list**
> ☑ : A recorded memo in Answering machine that you have not checked yet.
> ☐ : A recorded memo in Answering machine that you have already checked.

NOTE
Recording limitation :
There is a 10 voice memo limit including those in Auto Answering.
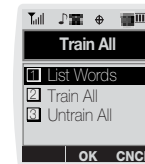Each voice memo has a 60 second limit.

C H 5

VOICE COMMAND

Trains the Control Words into categories as follows.

YES/NO

Use the Yes/No to train or untrain the Voice Recognition with the control words, yes and no.

1 Press ⟲ 9ʷˣʸᶻ .

2 Press 3ᴰᴱᶠ 1.- .

Train All
1 List Words
2 Train All
3 Untrain All
OK   CNCL

3 Select one of the following options with the Navigation key and press ⬤ .

> List Words : Displays list of control words in the Yes/No set. Select a control word, press ⬤ and either train, untrain or view the status of the word. To train with a word, press 1.- and follow the voice prompts.
> Untrain All : Untrain Yes/No set to recognize trained control words.

C H 5

WAKE UP

Use the Wake-Up to train or untrain the Voice Recognition with the control word, wake up.

1 Press 🔽 9ᵂˣʸᶻ .

2 Press 3ᴰᴱᶠ 2ᴬᴮᶜ .

3 Select one of the following options with the Navigation key and press ⚪ .

> **Train All**
> 1 List Words
> 2 Train All
> 3 Untrain All
> OK | CNCL

> List Words : Displays list of control words in the Yes/No set. Select a control word, press ⚪ and either train, untrain or view the status of the word. To train with a word, press 1 and follow the
> Untrain All : Untrain Wake-up to recognize trained control words.

TOP LEVEL

Use the Top Level to train or untrain the Voice Recognition with your control words. (Dial, Redial, Voice Memo, Phone book, Cancel).

1 Press 🔽 9ᵂˣʸᶻ .

2 Press 3ᴰᴱᶠ 3ᴰᴱᶠ .

3 Select one of the following options with the Navigation key and press ⚪ .

> **Train All**
> 1 List Words
> 2 Train All
> 3 Untrain All
> OK | CNCL

> List Words : Displays list of control words in the Yes/No set. Select a control word, press ⚪ and either train, untrain or view the status of the word. To train with a word, press 1 and follow the voice prompts.
> Untrain All : Untrain Top level set to recognize trained control words.

DIGIT DIAL

Use the Digit dial to train or untrain the Voice Recognition with the control words (1 to 9, Zero, Oh, Verify, Clear, Call)

1 Press 🔽 9ᵂˣʸᶻ .

2 Press 3ᴰᴱᶠ 4ᴳᴴᴵ .

> **Train All**
> 1 List Words1
> 2 List Words2
> 3 Train All
> 3 Untrain All
> OK | CNCL

3 Select one of the following options with the Navigation key and press ⚪ .

> List Words : Displays list of control words in the Yes/No set. Select a control word, press ⚪ and either train, untrain or view the status of the word. To train with a word, press 1 and follow the voice prompts.
> Untrain All : Untrain Digit dial set to recognize trained control words.

VOICE DIAL

Lists, adds, or erases phone book entry voice tags.

LIST

1 To list phone book entries with attached voice tags, press
ⵕ ⑨ᵂˣʸᶻ ④ᴳᴴᴵ ①.

Select Name
01 John
02 123
03 abcdef
04 ksh
OK | CNCL

2 Select one with the Navigation key and press ⃝ .

[01]John

XXXXXXXXX
EDIT | PLAY | CNCL

> EDIT : Retrain / Voice Setting / Clear
> PLAY : Voice tag play.

3 To play a voice tag, press ⃝ .

4 To edit an existing voice tag, press ⵕ .

> 1) Retrain - Retrain Voice Name displays. Press
> ⃝ then say a name.
> 2) Voice Setting - Change displays. Press ⃝ ,
> select a phone number, then
> press ⃝ again.
> 3) Clear - Removing voice names proceed
> displays. Press ⃝ and All voice tags
> were deleted successfully appears.

ADD

1 To add a voice tag to a phone book entry, press ⵕ ⑨ᵂˣʸᶻ ④ᴳᴴᴵ ②ᴬᴮᶜ .

Select Group Name
Family
Friends
Work
Etc.
OK | CNCL

2 Select one group with the Navigation key and press ⃝ .

3 Select a phone number with the Navigation key and press ⃝ .
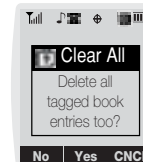
4 To add the voice tag, say the name.

CLEAR ALL

1 To erase all voice tags in the list, press ⵕ ⑨ᵂˣʸᶻ ④ᴳᴴᴵ ③ᴰᴱᶠ .

Note
Removing
all voice tags
Proceed?
OK | CNCL

2 You will see "Removing all voice tags proceed?".

3 Press ⃝ and you will see a message "Delete all tagged book entries too?"

Clear All
Delete all
tagged book
entries too?
No | Yes | CNCL

> NO : Delete all voice tags.
> YES : Delete all voice tags and phone book entries.
> CNCL : Return to the previous page.

VOICE SETTING

UNTRAIN ALL

Use the Untrain All to untrain all trained control words.

1 Press ⊙ ⑨.

2 Press ⑤ ①.

3 Select "Yes" or "No" with the Navigation key and press ◉.

Tall ♪📼 ⊕ 📶
Untrain All
☑ No
☐ Yes

OK | CNCL

PROMPT MODE

Use the prompt mode to select either beginner or expert mode. The expert mode consists of shorter texts and just beeps as opposed to the beginner mode that gives full instructions.

1 Press ⊙ ⑨.

2 Press ⑤ ②.

Tall ♪📼 ⊕ 📶
Prompt Mode
☑ Beginner
☐ Expert

OK | CNCL

3 Select one from Beginner/Expert with the Navigation key.
Press ◉.

<Beginner mode>
1st prompt : Main Menu followed by a short beep.
2nd prompt : Speak a name to call, or say dial, redial, voice memo, phone book, or cancel , followed by a short beep.
<Expert mode>
1st prompt : A sequence of low tone and high tone.
2nd prompt : Main menu .

NOTE If nothing is said after the 1st and 2nd prompts are heard, Voice Recognition will time out and the phone will return to standby mode.

DIGIT MODE

Use the digit mode to select one of the following options ; ECHO, BEEP, ECHO+BEEP.

1 Press ⊙ ⑨.

2 Press ⑤ ③.

Tall ♪📼 ⊕ 📶
Digit Mode
☑ Echo
☐ Echo + Beep
☐ Beep

OK | CNCL

3 Select one option with the Navigation key and press ◉.

ECHO : In Voice Recognition mode, digit echoes when entered.
BEEP : In Voice Recognition mode, digit beeps when entered.
ECHO+BEEP : In Voice Recognition mode, digit echoes and beeps when entered.

HANDS FREE KIT MODE

Activates Voice Recognition feature when phone is in Hands Free Kit (HFK) mode.

1 Press ⊙ ⑨.

2 Press ⑤ ④.

Tall ♪📼 ⊕ 📶
HFK Mode
☑ Off
☐ On

OK | CNCL

3 Select "Off" or "On" with the Navigation key and press ◉.

NOTE A beep sounds the first time "Wake-up" is said. The second time, "Wake-up" is said, the phone changes to Voice Recognition mode.

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Chapter 6

VOICE MAIL AND TEXT MESSAGE

This chapter addresses Voice Mail and Text Messaging functions including:

- WHEN A NEW MESSAGE ARRIVES
- VOICE MAIL
- SEND NEW
- INBOX
- OUTBOX
- FILED
- ERASE ALL
- SETTINGS

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WHEN A NEW MESSAGE ARRIVES

1 The following display appears when a new message arrives.

2 To display the message, press ⌣ .

SMS ARRIVED!

☑ 02
: 22

Fr : One

READ | CNCL

VOICE MAIL

Displays the number of voice mails and accesses them by pressing ⌣ or ⌣ .

1 To access your voice mailbox, press ⌣ ① or press and hold ⌣ .

The screen displays the new voice mails in your voice mailbox.
Press ⌣ to access your voice mailbox.

SMS ARRIVED!

☑ 02
: 22

CB : *88

READ | CNCL

SEND NEW

To send a new message:

1 Press ⌣ ②ᴬᴮᶜ .

2 Input a new phone number and press ● .

> You can look it up from the phone book by pressing ⌣ .

3 Input a new text message and press ● .

(Please refer to page 31 for more details on entering letters and numbers.)

1. SEND

1 To send the text message, press ① .

> If Delivery Failed. Retry in 3 mins? appears, press ⌣ to select Auto Retry.

2. EDIT RECIPIENT

Edits the recipient's information – select if a wrong number is entered.

1 To change the recipient, press ②ᴬᴮᶜ .

2 Input a new phone number, and press ● .

3 Input a new text message, and press ● .

4 To send, press ① .

3. EDIT MESSAGE

1 Press ③ to change the text message.

2 Input a new text message, and press ⬤.

4. PRIORITY

Marks messages as urgent.

1 To send an urgent message, press ④ and select "Urgent" with the Navigation Key. Press ⬤.

5. CALL BACK

Allows you to input a specific call back number. Your phone number is the default.

1 To change the call back number, press ⑤.

2 Input a call back number and press ⬤.

6. SAVE

This allows you to save the message into 'Outbox' folder to use later.

1 To save the text message, press ⑥.

7. REQUEST DELIVERY ACK

When activated, confirms if message was successfully delivered.

1 To confirm that your message is delivered, press ⑦ and select "Yes" with the Navigation Key. Press ⬤.

2 Press ⬤.

Manages received text messages.

1 Press ✏ and ③.

⊠	: Urgent New Msg(not read)
⊠	: Urgent Read Msg
⊠	: New Msg (not read)
⊠	: Old Msg (already read)
⊠	: Lock (already read and locked)

2 Select a message and press ◎. The message is displayed.

3 Press ◎.

1. REPLY

1 To reply to the text message, press ①.

2 Type your reply and press ⬤.
(See page 31 for more information on entering letters, numbers and characters.)

2. ERASE

1 To erase the text message, press ②.

2 When "Delete Msg?" appears, press ◎.

3. FORWARD

1 To erase a text message, press 3^{DEF} .

4. SAVE

1 To save a text message in the Filed Folder, press 4^{GHI} .

5. SAVE ADDRESS

1 To save the call back number of a message into the phone book, press 5^{JKL} .

6. LOCK
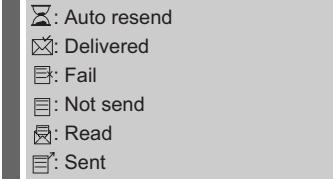
1 To lock or unlock a text message, press 6^{MNO} .

2 Select "Lock "or "Unlock" with the Navigation key. Press ⬤ .

Manages sent text messages or messages waiting to be sent.

●CHECKING SENT TEXT MESSAGES

1 Press ⬭ and 4^{GHI}
Select a message with the Navigation key.
Then press ⬭.

> ⧗ : Auto resend
> ✉ : Delivered
> ▤ : Fail
> ▤ : Not send
> ▧ : Read
> ▤ : Sent

2 The text message is displayed.

3 Press ⬭ .

1. RESEND

1 To resend a text message, press $1.$.

2. ERASE

1 To erase a text message, press 2^{ABC} .

2 When "Delete Msg?" appears, press ⬭.

3. SEND TO

1 To send a message to another person, press ③.

2 Input the phone number and press ◉.

3 Input a text message and press ◉.

4. SAVE

1 To save the outbox text message in the Filed Folder, press ④.

5. STATE

1 To display the status of an outbox message, press ⑤.

● **FILED**

Manages saved messages from the Inbox/Outbox.

1 Press ⌀ and ⑤.
Select a text message with the Navigation key.
Press ⌀.

2 The text message is displayed.
Press ⌀.

3 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.

4 Select one by pressing ◉.

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H
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ERASE ALL

Erases all the messages from the Inbox, Outbox or Filed folder.

● ERASE MESSAGES

1 Press ⊘ , then ⑥ .

2 1. To erase all the inbox messages, press ① .

> Erases entire inbox or old inbox.

2. To erase all the outbox messages, press ② .

> Erases entire outbox or old outbox.

3. To erase the filed messages, press ③ .

3 Select "Yes" or "No" with ⊙ or ⊘ .

SETTINGS

Manages various messaging settings.

● SAVE SENT MESSAGES

Saves every sent message.

1 Press ⊘ , then ⑦ .

2 Press ① .
Select one from No/Yes/Prompt with the Navigation key.
Press ◉ .

● DEFAULT CALL BACK NUMBER

Edits a default call back number so that the recipient can call back or reply.

1 Press ⊘ , then ⑦ .

2 Press ② .
Input a call back number then press ◉ .

● ALERT

Enables phone to alert you of an incoming message.

1 Press ⊘ , then ⑦ .

2 Press ③ .
Select one from the Ringer/Vibrate/Silent/ Ringer& Remind/Vibrate & Remind with the Navigation key.

> The Ringer & Remind or Vibrate & Remind rings or vibrates every 2 minutes to remind you of an incoming message. They will be cleared when any key is pressed.

3 Press ◉ .

SETTINGS

DISPLAY DELIVERY ACKNOWLEDGEMENT

1 Press ⊘ , then ⑦ .

2 Press ④ .
Select one from No/Yes with the
Navigation key.
Press ⬤ .

AUTO ERASE

Automatically erases inbox/outbox messages when new messages arrive.

1. AUTO ERASE INBOX

1 Press ⊘ ⑦ ⑤ .

2 Press ① .
Select "Disable" or "Old Inbox"
with Navigation key.

3 Press ⬤ .

2. AUTO ERASE OUTBOX

1 Press ⊘ ⑦ ⑤ .

2 Press ② .
Select "Disable" or "Old Outbox"
with Navigation key.

3 Press ⬤ .

C
H
6

SETTINGS

ENTRY MODE

Sets an Entry Mode as a default.
The T9 mode indicator will appear whenever the input mode is
activated if the T9 mode is the default.

1 Press ⊘ , then ⑦ .

2 Press ⑥ .
Select "T9 Mode "or "Alpha Mode " with
the Navigation key.

3 Press ⬤ .

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H
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Chapter 7

WEB BROWSING

This chapter addresses Internet services and web browsing.
For more detailed information contact your service provider.

- START INTERNET BROWSER
- BROWSER MENU

START INTERNET BROWSER

● ACCESS THE INTERNET

1 To start your Internet browser and access websites through your wireless handset, press and hold ⓦᴱᴮ .

```
Tₐₗₗ ♪              D◁ⅢⅡ
Browser Menu
1 >Reload
2  Home
3  Bookmarks
4  Mark Site
5  About Openwaue
6  Aduanced...
   OK      BACK
```

BROWSER MENU

The browser menu lists the actions necessary to operate the browser. Press and hold ⓦᴱᴮ to access the browser menu.

● RELOAD

1 To reload the current page, press and hold ⓦᴱᴮ , then press ①₋ .

● HOME

1 To display the homepage, press and hold ⓦᴱᴮ , then press ②ᴬᴮᶜ .

BROWSER MENU

● BOOKMARKS

1 To view your bookmark list, press and hold ⓦᴱᴮ , then press ③ᴰᴱᶠ .
This provides easy website access without entering its URL.

```
Tₐₗₗ ♪              D◁ⅢⅡ
Browser Menu
1  Reload
2  Home
3>Bookmarks
4  Mark Site
5  About Openwaue
6  Aduanced...
   OK      BACK
```

● MARK SITE

1 To add the current page to your bookmark list, press and hold ⓦᴱᴮ , then press ④ᴳᴴᴵ .

> No bookmark service site appears when the Internet site cannot support the bookmark service.

● ABOUT OPENWAVE

1 To view the browser version and copyright information, press hold ⓦᴱᴮ , then press ⑤ᴶᴷᴸ .

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● ADVANCED...

1 To display the following Advanced menu, press and hold ⑥ⁿⁿᵒ , then press ⓦᴱᴮ .

SHOW URL

1 To display the URL (Uniform Resource Locator) of the current page, press ①.₀ .
The URL is the address of a website.

```
Tₐll ♪   ⊕  D(llll
Advanced
1 >Show URL
2  Homepage
3  Set WAP Proxy
4  Offline Seruices
5  Outbox
6  Restart Browser      ↓
   OK        BACK
```

HOMEPAGE

1 To change your homepage, press ②ᴬᴮᶜ . This is the first page you will see when you access the Internet.

SET WAP PROXY

1 To select an alternate WAP Proxy, press ③ᴰᴱᶠ .

OFFLINE SERVICES

1 To navigate through the list of installed channel applications and guide you to the entry point of the applications, press ④ɢʜɪ .

OUTBOX

1 To display the number of items that are delivery-pending and how long they have been there, Press ⑤ᴶᴷᴸ .

RESTART BROWSER

1 To clear the history of viewed pages and start a new session with Browser, press ⑥ⁿⁿᵒ .

ENCRYPTION

1 Press ⑦ᴾᑫᴿˢ to access security.

Chapter 8

SAFETY AND WARRANTY

This chapter addresses the safety guidelines and precautions to follow when operating your phone.

This chapter contains the terms and conditions of services and the warranty for your phone. Please review them thoroughly.

- SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES
- SAFETY INFORMATION FOR FCC RF EXPOSURE
- SAR INFORMATION
- FDA CONSUMER UPDATE
- PROTECT YOUR WARRANTY
- 12 MONTH LIMITED WARRANTY

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CH 8

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

Read This Information Before Using Your Handheld Portable Cellular Telephone

EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

- ANSI C95.1 (1992) *
- NCRP Report 86 (1986) *
- ICNIRP (1996) *

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C951).

The design of your phone complies with the FCC guidelines (and those standards).

ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

1* : American National Standards Institute.
2* : National Council on Radiation protection and measurements.
3* : International Commission on Nonionizing Radiation Protection.

DRIVING SAFETY

Talking on the phone while driving is extremely dangerous and is illegal in some states. Remember, safety comes first. Check the laws and regulations on the use of phones in the areas where you drive. Always obey them.

Also, if using your phone while driving, please:

- Give full attention to driving. Driving safely is your first responsibility.

- Use hands-free operation, if available.

- Pull off the road and park before making or answering a call, if driving conditions so require.

If you must use the phone while driving, please use one-touch, speed dialing, and auto answer modes.

An airbag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the airbag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

> **!** WARNING: Failure to follow these instructions may lead to serious personal injury and possible property damage.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

● ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

PACEMAKERS

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.
Persons with pacemakers :

● ALWAYS keep the phone more than six inches from your pacemaker when the phone is turned on.

● Do not carry the phone in a breast pocket.

● Use the ear opposite the pacemaker to minimize the potential for interference.

● If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

OTHER MEDICAL DEVICES

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in healthcare facilities when any regulations posted in these areas instruct you to do so. Hospitals or healthcare facilities may be using equipment that could be sensitive to external RF energy.

POSTED FACILITIES

Turn your phone OFF where posted notices so require.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

● OTHER SAFETY GUIDELINES

AIRCRAFT

FCC and Transport Canada Regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft.

BLASTING AREAS

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

POTENTIALLY EXPLOSIVE ATMOSPHERES

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere 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; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or articles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle's engine.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

● PRECAUTIONS

Your Handheld Portable Telephone is a high quality piece of equipment. Before operating, read all instructions and cautionary markings on (1) AC Adaptor (2) Battery and (3) Product Using Battery.

DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.

DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using, lay down the unit to avoid possible damage due to instability.

DO NOT expose this equipment to rain or spilled beverages.

DO NOT use unauthorized accessories.

DO NOT disassemble the phone or its accessories. If service or repair is required, return unit to an authorized Audiovox cellular service center. If unit is disassembled, the risk of electric shock or fire may result.

DO NOT short-circuit the battery terminals with metal items etc.

SAFETY INFORMATION FOR FCC RF EXPOSURE

⚠ WARNING! Read this Information before using

● CAUTIONS

In August 1996 the Federal Communications Commossion (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

Do not use the phone with a demaged antenna. If a demaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION (HOLSTER PART NUMBER : 2H02065800A)

This device was tested with holster 2H02065800A for body-worn operation with the back of the phone kept 0.98423inchs (2.5cm) from the body. To comply with FCC RF exposure equirements, a minimum separation distance of 0.98423inchs (2.5cm) must be maintained between the user's body and the back of the phone, including the antenna, whether extended or retracted. All belt-clips, holsters and similar accessories used by this device must not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with FCC RF exposure limits and should be avoided.

VEHICLE MOUNTED EXTERNAL ANTENNA (OPTIONAL, IF AVAILABLE)

A minimum separation distance of 7.9 inches (20cm) must be maintained between the user/bystander and the vehicle mounted external antenna to satisfy FCC RF exposure requirements.

NOTE For more information about RF exposure, please visit the FCC website at www.fcc.gov

SAR INFORMATION

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the governmentadopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 0.989 W/kg and when worn on the body, as described in this user guide, is 0.388W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/ oet/fccid after searching on PP4TX-30B.

SAR INFORMATION

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Asso-ciation (CTIA) web-site at http://www.wow-com.com.

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a sub-stantial margin of safety to give additional protection for the public and to account for any variations in measurements.

U.S. Food and Drug Administration -Center for Devices and Radiological Health Consumer Update on Wireless Phones

1. 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 ef-fects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological ef-fects. Some studies have suggested that some biological ef-fects 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.

2. 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 de-vices. However, the agency has authority to take action if wire-less 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 regula-tory 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 ex-posure 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 inter-agency 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 expo-sures that people get from these base stations are typically thousands of times lower than those they can get from wire-less phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. 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 expo-sures far below the FCC safety limits.

4. 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 wire-less phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, how-ever, 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 develop-ment used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-dis-posed 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 neu-roma, 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.

5. What research is needed to decide whether RF expo-sure from wireless phones poses a health risk?
A combination of laboratory studies and epidemiological stud-ies 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 stud-ies can provide data that is directly applicable to human popu-lations, but 10 or more years' follow-up may be needed to pro-vide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a can-cer- causing agent and the time tumors develop - if they do -may be many, many years. The interpretation of epidemiologi-cal studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many fac-tors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. 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 impor-tant questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Orga-nization 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 pro-grams around the world.

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The Project has also helped develop a series of public information documents on EMF issues. FDA and the Cellular Telecommunications & Internet Asso-ciation (CTIA) have a formal Cooperative Research and De-velopment Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic or-ganizations. CTIA-funded research is conducted through con-tracts 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.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wire-less telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electri-cal and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF expo-sure level for each model of phone to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency en-ergy coming from wireless phones ?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leader-ship of FDA scientists and engineers. The standard, "Recom-mended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the mea-surement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. 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 an-tenna.

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 wire-less phone use.

10.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 wire-less 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 King-dom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that us-ing 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 evi-dence that any health hazard exists.

11.What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can inter-act 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 Ad-vancement 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 Engi-neers (IEEE). This standard specifies test methods and per-formance requirements for hearing aids and wireless phones so that that no interference occurs when a person uses a "com-patible" 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 pos-sible 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.

12.Where can I find additional information?

For additional information, please refer to the following re-sources:
• FDA web page on wireless phones (http://www.fda.gov/cdrh/ phones/index.html)
• Federal Communications Commission (FCC) RF Safety Pro-gram (http://www.fcc.gov/oet/rfsafety)
• International Commission on Non-Ionizing Radiation Protec-tion (http://www.icnirp.de)
• World Health Organization (WHO) International EMF Project (http://www.who.int/emf)
• National Radiological Protection Board (UK) (http://www.nrpb.org.uk/)

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