

WELCOME

Thank you for choosing the up-to-date CDM-8900, our new model, developed by top researchers to support the CDMA2000 1X system through Qualcomm-manufactured MSM6050 chips and CDMA technologies. This product allows for high speed communication services, such as web browsing, data & fax services, GUI animation menu, and so on.

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 9 text input line and 1 icon line with variable font size.
- Easy to dial through the VR feature.
- Easy to enter letters through the T9 text input mode.
- Enhanced for web browsing & data services (i.e.; wireless internet access, wireless fax send/receive, Openwave, UP browser)
- GUI & Animation display compliant with CDMA2000 1X.
- TFT 65KColor LCD.
- Mobile Camera.(VGA 33Frames)
- Navigation key and 25 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-8900 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-8900 including:

- INSIDE THE PACKAGE
- HANDSET DESCRIPTION
- BATTERY USAGE
- BATTERY HANDLING INFORMATION

INSIDE THE PACKAGE

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1

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



Handset



Desktop Charger



Standard Battery



User Manual

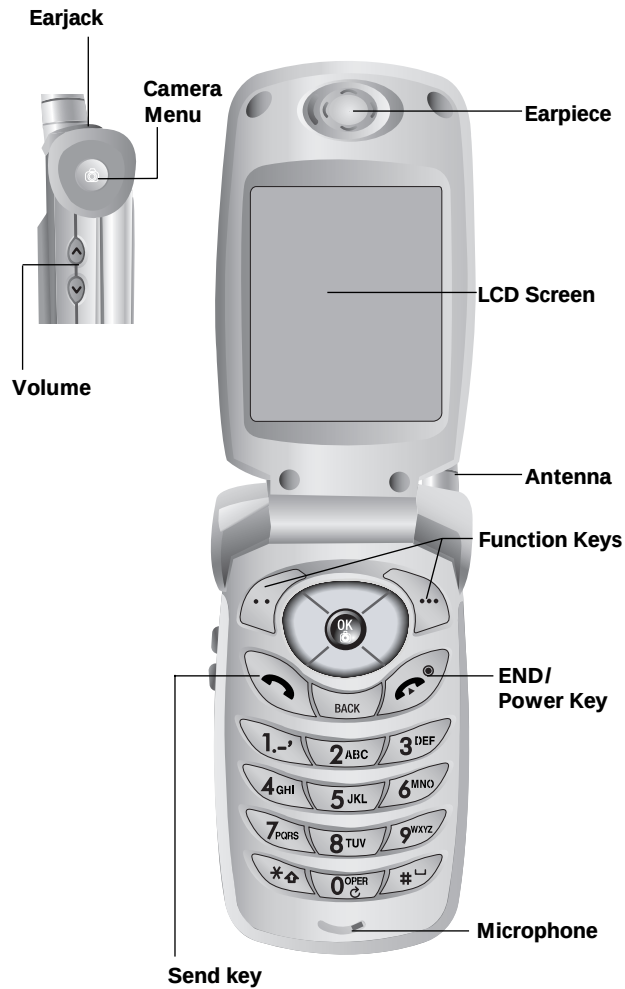


Handstrap

6

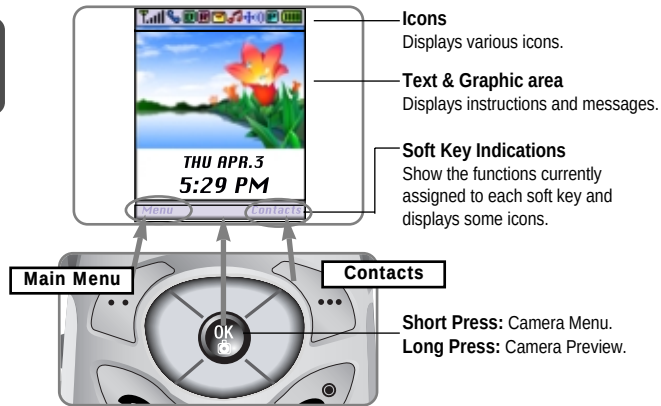
HANDSET DESCRIPTION

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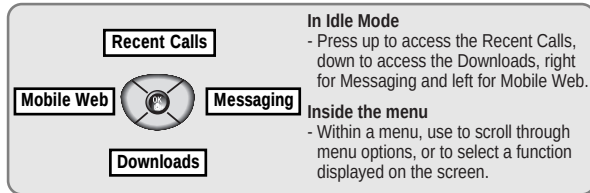


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HANDSET DESCRIPTION

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THE FUNCTION KEYS



Press to make or receive a call.
Press and hold to turns 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.



Press and hold to access internet service.



Press to clear a digit from the display or to return to the previous page or to enable speakerphone mode.



Press and hold to enter etiquette mode.

HANDSET DESCRIPTION



Press and hold to enter lock mode.

CH
1

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 cannot receive a signal from the system.



Message

New text or 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 made.



Answering machine

Phone is in answering machine mode.



Etiquette

Phone will vibrate when call is received.



Schedule

Appears when either an event or an alarm is set.



Ring Mode

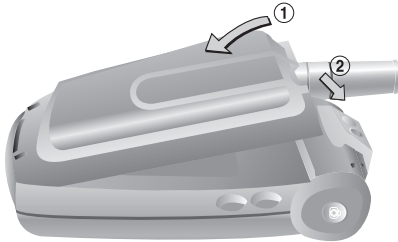
Appears when a ringer is set as a ringer mode.

BATTERY USAGE

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1

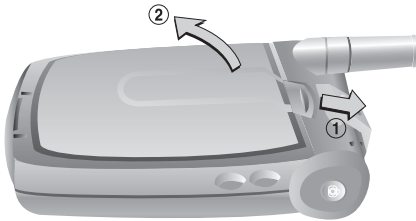
BATTERY INSTALLATION

- 1 Place the battery on the back of the handset and slide into place. 2 Push the battery down until it locks into place.



BATTERY REMOVAL

- 1 Pull down the release latch, lift up the battery and 2 remove the battery from the handset.



Make sure the battery is securely placed to avoid slipping off during a call.

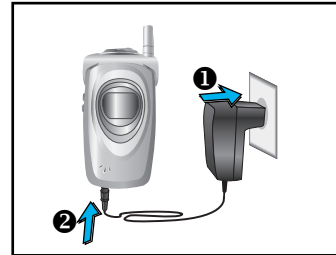
10

BATTERY USAGE

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.



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.



- 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.

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BATTERY USAGE

CH
1

CHARGING THE BATTERY ONLY

- 1 To charge the battery separately, detach it from the handset and place it into charger.

- 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	CDMA	AMPS
Talk (min)	150	103
Stand by (hrs)	103	25

BATTERY HANDLING INFORMATION

DOs

- Only use the battery and charger approved by the manufacturer.
- Only use the battery for its original purpose.
- Try to keep batteries in a temperature between 41°F (5°C) and 95°F (35°C).
- 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 temps. Otherwise, it could significantly reduce the capacity and lifetime of the battery.
- Don't dispose of the battery into a fire.

MEMO

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Chapter 2

BASIC OPERATION

CH
2

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 your "Power On" logo appears and the tone sounds.



- To select a logo, refer to page 56 for more details. (Setting>Display>Graphics) for more detail.
- 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

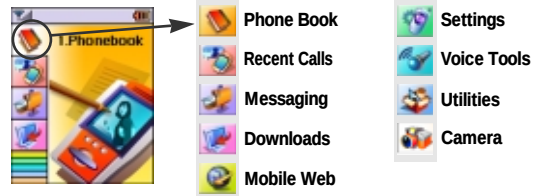
- 1 Press and hold , until "Power Off" appears.



- 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.



- 1 To access the menu in the idle mode, press  [MENU].

- 2 Use the Navigation key to scroll through the menu.

- To search through the menu in numerical order, press down.

- 3 To return to the previous page, press  [BACK]. 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 a direct access to the function.



Hotkey

In idle mode, move the Navigation Key as follows to access these functions:

- Upward movement – Recent Calls
- Downward movement – Downloads
- Rightward movement – Messaging
- Leftward movement – Mobile Web.

MENU SUMMARY

CH 2	1. Phone Book 	1. Find 2. Add New 3. Group 4. Speed Dial 5. My Phone #	1. By Name 2. By Number	
	2. Recents Calls 	1. All Calls 2. Missed Calls 3. Received Calls 4. Dialed Calls 5. Call Timers	1. Last Call 2. Home Calls 3. Roam Calls 4. All Calls 5. Lifetime	
	3. Messaging 	1. Voice Mail 2. Send Message 3. Inbox 4. Outbox 5. Filed 6. Canned 7. Erase All	1. Inbox 2. Outbox 3. Filed 4. Voice Mail 5. Canned 1. Save Sent MSG 2. Default Callback 3. Alert 4. Auto Erase 5. Entry Mode 6. Set Prepend 7. Direct View	1. Old Inbox 2. Entire Inbox
	4. Downloads 	1. Games 2. Ringer 3. Graphics	1. Get New 2. Game1 3. Game2 1. Get New 2. Ringer1 3. Ringer2 1. Get New 2. Sample1 3. Sample2	1. Inbox 2. Outbox
	5. Mobile Web 	1. Connect Web 2. Bookmark	1. Add Bookmark 2. Sample1 3. Sample2 4. Sample3 5. Sample4	

MENU SUMMARY

CH 2	6. Settings 	1. Sounds 2. Display 3. Internet 4. Security 5. Network 6. Airplane Mode	1. Ringer Type 2. Volume 3. Alert 4. Roam Ringer 5. Tone Length 1. Menu Style 2. Graphics 3. Sub Screen 4. Greeting Message 5. Contrast 6. Backlight 1. UP Proxy IP 2. Home URL 3. Prompt 4. Data Svc. 1. Phone Lock 2. Restrict 3. Change Code 4. Special #'s 5. Erase All 6. Reset Phone 1. Set Mode 2. Force Analog 3. Nam Setting	1. Ringer 2. Messages 3. Voice Mail 1. Ringer 2. Key Tone 3. Voice Call 1. Minute 2. Roam 3. Connect 4. Fade 5. Low Signal 6. On/Off Tones 1. Fold 2. Grid 1. Standby 2. Power On 3. Power Off 4. Incoming Call 5. Outgoing Call 6. Screen Saver 1. Msg 2. Font Color 3. Bg Color 1. Main LCD 2. Sub LCD 1. Main LCD 2. Keypad 1. Connection 2. Data Speed 3. Port 1. Outgoing Call 2. Recent Calls 3. Menu 4. Phone Book 5. Camera 6. Data Calls 7. 900#s 1. Set NAM
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MENU SUMMARY

CH 2	7. Others	1. Call Answer	1. Retry Time
		2. Active Flip	2. Repeat
		3. Auto Redial	1. Set Active
		4. Auto Answer	2. Car Kit/Headset
		5. Voice Dial	1. Serving System
		6. Language	2. Version
		7. Auto Prepend	3. Mobile ID
		8. Handset Info.	
7. Voice Tools	1: Voice Memo	1: Record	
		2: Play	
		3: Play Speaker	
	2: Voice Dial	4: Erase All	
		1: Record	
		2: Play	
	3: Train Word	3: Play Speaker	
		4: Erase All	
		1: Yes	
8. Utilities	1: Event	2: No	
		3: Wake-Up	
		4: Undo Train All	
	2: Alarm	1: Add Plan	
		2: View Event List	
		1: Item 1	
	3: Memo Pad	2: Item 2	
		3: Item 3	
		1: Add Memo	
9. Camera	4: Calculator	2: View Memo	
	5: World Clock	3: Search	
	6: Stopwatch	4: Settings	
	1: Take a Photo	1: New Picture	
	2: Photo Album	2: Saved Picture	
	3: Photo Mail		
	4: PC Camera		
	5: Help		

BASIC FUNCTIONS

MAKING A CALL

1 Enter a phone number.



To modify the phone number you have entered :

- To erase one digit at a time press .
- To erase the entire number, press and hold .



Press .

The indicator , appears on the display



- If "CALL FAILED" appears on the display or the line is busy, press or .
- If you activate the "AUTO REDIAL" function, the phone will automatically retry for the number of times you have selected. (refer to page 71).
- A phone number will appear with its name, if available in the phonebook 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 91 (Voice Service) for more details.



To end a call, press .

Please refer to page 30 for more details about storing a phone number.



Please refer to page 91 (Voice Service) for more details on using Voice Activated Dialing to place a call.

BASIC FUNCTIONS

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 or 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  [PSE] to insert a pause.
- 2 Press  to dial or  [STO] to store. Please refer to page 30 for more details about storing a phone number.

BASIC FUNCTIONS

ANSWERING A CALL

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

- In the (Settings-Call Answer), you can select 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 .



In Auto Answer Mode a call is automatically answered after a preset number of ring tones. See page 70 for more details.

CALLER ID FUNCTION

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



The caller ID is stored in the call history.

BASIC FUNCTIONS

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. first call.

ADJUSTING VOLUME

Adjust the volume of the ringer, key beep and speaker.

- 1 Press [MENU] and select one of the following.

- Ringer – Controls the ringer volume
- Key Tone– Controls the keypad tone
- Voice Call – Controls the Speaker & earpiece volume

- 2 Adjust volume and press [OK] to save it.



Move the Navigation key left or right to adjust volume of earpiece during a call.

BASIC FUNCTIONS

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 .

LOCK

Locks your phone and prevents unauthorized use. Phone can only be used after inputting the password.

- 1 To lock the phone, press and hold .
- 2 To unlock the phone, press then input the password.

Lock feature will deactivate when the phone is power off. Upon next power up, you will need to press to lock phone again



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

DURING A CALL

To display menu options during a call, press .

MUTE (UNMUTE)

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

1 Press  [MENU] .

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

SILENT

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

1 Press  [MENU] .

- Press  [MENU]  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  [MENU] and .

DURING A CALL

MY PHONE NUMBER

Enables you to review and edit your profile that is entered through the phone book. Please see page 42 for more details.

1 Press  [MENU] .

HANDSET INFORMATION

Notifies you of your handset information. Please see page 73 for more details.

1 Press  [MENU] .

MAKING AN EMERGENCY CALL

This 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.

911 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, the phone returns to the Lock Mode.

911 USING ANY AVAILABLE SYSTEM

- 1 Enter "911" and press .
- 2 The call connects.
- 3 The phone maintains the Emergency Mode for 5 minutes.

- When the call ends, the phone returns to the Lock Mode.
- 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 & SYMBOLS
- MAKING A CALL THROUGH THE PHONEBOOK

STORING A PHONE NUMBER

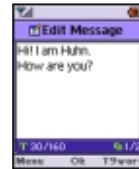
The phonebook stores up to 300 entries.

- 1 Enter phone # and press [SAVE].
- 2 Choose "New Contact" or "Existing Contact". Press [OK] 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 [OK] to select.
- 4 Enter a name and press [OK]. Follow instructions for entering text on page 31. To change the input mode, press [MODE]. Press [Save] to store the phone number.
 - Group – Family, Friends, Work, Etc.
 - Voice dial – Home, Mobile, Office, Unassigned.
 - Set Secret – Yes, No.
- 5 Use the Navigation key to scroll through more options for the entry (VAD, secret).
 - The other fields are set to Numeric mode as a default.
- 6 To store the entry, press "New contact added!" will be displayed.

ENTERING LETTERS, NUMBERS & SYMBOLS

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 [MODE], then enter letters and numbers.



Input mode indicator
 Abc : Abc mode
 NUM : Number mode
 T9 word : T9 mode
 SYM : Symbol 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]
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.
Save	Store the letters and numbers you enter.

ENTERING LETTERS, NUMBERS & SYMBOLS

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	.	@	-	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 [MODE].

- 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 .
- 5 To change from lowercase to uppercase, press .

e.g. Select Abc mode, by pressing [] [MODE].

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 [] J
Press [] [] [] o
Press [] [] h
Press [] [] n

ENTERING LETTERS, NUMBERS & SYMBOLS

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 [MODE].
- 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 .
- 4 To accept matching word and enter a space, press .



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.



To enter "phone book" in the T9 input mode.

- Press [] [MODE] to select the T9 input mode and [] to choose the small letter case (T9abc).

- Press [] [] [] [] [] and you will see "phone" highlighted. Press [] to see the next matching word and [] to select it.

- Press [] [] [] [] and you will see "book" highlighted. Press [] to move to the next matching word and [] to select the compound word and enter a space.

ENTERING LETTERS, NUMBERS & SYMBOLS

NUMERIC MODE

Enters numbers.

- 1 Press  [MODE] until the current input mode changes to the "Numeric mode".
- 2 To enter a number, press a digit key.

SMILEYS MODE

Allows you to enter smileys symbol.

- 1 Press  [MODE] until the current input mode changes to the "Smileys mode".
- 2 Select Smileys symbol you want to enter with the Navigation key.

Press [],

or

Press [],



ENTERING LETTERS, NUMBERS & SYMBOLS

SYMBOL MODE

Allows you to enter symbols.

- 1 Press  [MODE] until the "Symbol mode" appears.
- 2 Select symbol you want to enter with the Navigation key.

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

Press [],

or

Press [],



MAKING A CALL THROUGH THE PHONEBOOK

SPEED DIALING

Dials a number by simply pressing its location number.
Please refer to page 42 for more information.



- “Unassigned” appears if the location pressed is available.
- A phone number that is set secret will not be displayed.
- A call can be made by pressing its entry number and .

CH
3

Chapter 4

MENU FUNCTION

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

- PHONE BOOK
- RECENT CALLS
- DOWNLOADS
- MOBILE WEB
- SETTINGS
- UTILITIES
- CAMERA

CH
4

PHONE BOOK

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 NAME

- 1 Press  [MENU]   .
- 2 Display the list all names phone number in alphabetical order.
To select with Navigation keys.
- 3 Enter a name or its character string or 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.
- 4 All matching entries will be displayed. Select an entry and either delete it by pressing  [Menu] to view the time of the following items:

- Send Msg./Erase/Prefix

If the entry is set to secret, you will be asked for your password.
- 5 To call the selected number, press .

PHONE BOOK

BY NUMBER

- 1 Press  [MENU]   .
- 2 Display the listall phone number.
To select with Navigation keys.
- 3 To search through the menu, enter a part of the phone number and press the Navigation Key.

If there is no match, "Cannot Find Name" will appear.
- 4 All matching entries will be displayed. Select an entry and either delete it by pressing  [Menu] to view the time of the following items:

- Send Msg./Erase/Prefix

If the entry is set to secret, you will be asked for your password.
- 5 To call the selected number, press .

PHONE BOOK

ADD NEW

Adds a new entry.

- 1 To add a new entry to the phone book, press [MENU] .
- 2 To enter a name or number, use the Navigation Key to select the phone book field.

PHONE BOOK FIELD :

Name/Group/Mobile/Home/Office/Pager/Fax/E-mail/
Wireless Addr./Ringer/Msg.Ringer/Graphic/Memo/
Set Secret.

- 3 To save the entry, press [Save].
To return to the previous page, press [BACK] or .
Please refer to page 30 about storing a phone number.

GROUP

Adds, changes and deletes groups.

ADD NEW GROUP

- 1 To add a new group, press [MENU] .
A maximum of seven groups is allowed.
- 2 Press [Menu] to select "Add Group".
- 3 Input a new group name.
- 4 Press [OK] to save it.

PHONE BOOK

CHANGE GROUP NAME

- 1 Select an existing group name with the Navigation key.
- 2 Press [Menu] to select "Rename".
- 3 Input a new group name.
- 4 Press [OK] to save it.



Do not edit default group name. (All, Personal, Business, Etc.)

ERASE GROUP

- 1 Use the Navigation Key to select, then delete the group.
Press again to confirm.
- 2 Press [Erase] to delete it.
- 3 Press [OK] again to confirm it.



Do not erase default group name.(All, Personal, Business, Etc.)

PHONE BOOK

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 [MENU] .

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

If a phone number is already assigned to the location, press [Erase] and the navigation key to delete.

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

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

MY PHONE

To display your phone number and service provider.

1 Press [MENU] .

2 To return to the previous page, press [OK].

RECENT CALLS

In idle mode, you can access Call History by pressing [MENU], or .

ALL CALLS

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

1 To see a list of the 10 most recently all numbers, press [MENU] and . 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 all call details, press the Navigation Key.



The detail includes date, time, and phone number of all calls.

3 Press and [Save] again to save it or press [Erase] to delete it.

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



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

RECENT CALLS

MISSED CALLS

Displays information of the 20 most recently missed calls. Place a call to a missed call number by simply pressing .

- 1 To see a list of the 20 most recently missed calls, press  [MENU],  and . 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.



Call details include date, time and phone number.

- 3 Press  and  [Save] again to save it or press  [Erase] to delete it.

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



After the 20 missed call, the oldest call will automatically be erased from the history.

RECENT CALLS

RECEIVED CALLS

Displays information of the 20 most recently answered calls. Saves the numbers and places calls by simply pressing .

- 1 To see a list of the 20 most recently answered calls, press  [MENU],  and . 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.



Call details include date, time and phone number.

- 3 Press  and  [Save] again to save it or press  [Erase] to delete it.

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



After the 20 incoming call, the oldest call will automatically be erased from the history.

RECENT CALLS

DIALED CALLS

Displays information about the 20 most recently dialed numbers.
Saves the numbers and places call by simply pressing .

- 1 To see a list of the 20 most recently dialed numbers, press  [MENU]  and  .
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.



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

- 3 Press  and  [Save] again to save it or press  [Erase] to delete it.

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



After the 20 outgoing call, the oldest call will automatically be erased from the history.

RECENT CALLS

CALL TIMERS

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  [MENU]    .
- 2 To return to the previous page, press  [OK] .

HOME CALLS

Displays talk time of all calls made within Home area.

- 1 Press  [MENU]    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 Call
 - Data/Fax Call
- 3 To reset the timer, press  [Reset].
To return to the previous page, press  [OK].

ROAM CALLS

Displays talk time of roaming calls.

- 1 Press  [MENU]    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 Call
 - Data/Fax Call
- 3 To reset the timer, press  [Reset].
To return to the previous page, press  [OK].

RECENT CALLS

ALL CALLS

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

- 1 Press [MENU] 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 Call
 - Data/Fax Call
- 3 To return to the previous page, press [OK] .

LIFETIME

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

- 1 Press [MENU] 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 Call
 - Data/Fax Call
- 3 To reset the timer, press [Reset].
To return to the previous page, press [OK].

DOWNLOADS

GAMES

GET NEW

- 1 Press [MENU] .

RINGER

GET NEW

- 1 Press [MENU] .

DOWNLOADS

GRAPHICS

GET NEW

- 1 Press [MENU] .

MOBILE WEB

CONNECT WEB

You can use your phone to browse the Internet if you have obtained phone Internet service from your service provider and if over-the air Internet access is available in your area.

- 1 Press [MENU] .
- 2 Follow the procedures for “Chapter 7 WEB BROWSING” on page 109.

BOOKMARK

ADD BOOKMARK

- 1 Press [MENU] .

SAMPLE1

- 1 Press [MENU] .

SAMPLE2

- 1 Press [MENU] .

SAMPLE3

- 1 Press [MENU] .

SAMPLE4

- 1 Press [MENU] .

SETTINGS

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

SOUNDS

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

RINGER TYPE

To select a ringer type for incoming calls:

RINGER

- 1 Press [MENU] .
- 2 Select "Music Bells" or "Ring Tones" or "Downloads" with the Navigation key.(left or right)
- 3 Select one of TBD available ring types.
To confirm, press [OK].

MESSAGES

- 1 Press [MENU] .
- 2 Select "Music Bells" or "Ring Tones" or "Downloads" with the Navigation key.(left or right)
- 3 Select one of TBD available ring types.
To confirm, press [OK].

VOICE MAIL

- 1 Press [MENU] .
- 2 Select "Music Bells" or "Ring Tones" or "Downloads" with the Navigation key.(left or right)
- 3 Select one of TBD available ring types.
To confirm, press [OK].

SETTINGS

VOLUME

Controls the Ringer, Key and Voice Call volume and alerts you to incoming calls in the following modes.

RINGER

Controls the Ringer volume and alerts you to incoming calls in the following modes.

- 1 Press [MENU] .
- 2 Select one of the following options with the Navigation key.
 - Off
 - Vib
 - Ring Volume - Up&Down (Level 1~5)
 - High&vib – The ringer sounds after vibration, press (Max)
 - Silence – Mute the ringer, press (Min)
- 3 To confirm, press [OK].

KEY TONE

To adjust keypad tone:

- 1 Press [MENU] .
- 2 Adjust the keypad tone with the Navigation key.
 - Off
 - Level1-5 (Min- , Max-)
- 3 To save, press [OK].

VOICE CALL

To adjust earpiece volume:

- 1 Press [MENU] .
- 2 Adjust the earpiece volume with the Navigation key.
 - Level1-5 (Min- , Max-)
- 3 To save, press [OK].

SETTINGS

ALERT

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

MINUTE

Sounds an alert every minute of a phone call.

- 1 Press [MENU] .
- 2 Select "OFF" or "ON" with the Navigation key and press [OK] to save it.

ROAM

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

- 1 Press [MENU] .
- 2 Select "OFF" or "ON" with the Navigation key and press [OK] to save it.

CONNECT

Notifies you that a call has been successfully placed.

- 1 Press [MENU] .
- 2 Select "OFF" or "ON" with the Navigation key and press [OK] to save it.

FADE

Sounds an alert entering an area where calls cannot be made due to weak signal strength. The alert sounds in standby mode.

- 1 Press [MENU] .
- 2 Select "OFF" or "ON" with the Navigation key and press [OK] to save it.

SETTINGS

LOW SIGNAL

Sounds an alert when you encounter low signal strength during a call.

- 1 Press [MENU] .
- 2 Select "OFF" or "ON" with the Navigation key and press [OK] to save it.

ON/OFF TONES

- 1 Press [MENU] .
- 2 Select "OFF" or "ON" with the Navigation key and press [OK] to save it.

ROAM RINGER

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

- 1 Press [MENU] .
- 2 Select "Distinctive" or "Normal" with the Navigation key and press [OK] to save it.
 - Normal – Sounds the same ringer type as used in Home area.
 - Distinctive – Sounds a different ringer type

TONE LENGTH

To adjust tone length:

- 1 Press [MENU] .
- 2 Select "Normal" or "Long" with the Navigation key and press [OK] to save it.

SETTINGS

DISPLAY

Allows you to customize display.

MENU STYLE

To select an display menu style:

- 1 Press  [MENU]   .
- 2 Select "Fold" or "Grid" with the Navigation key and press  [OK] to save it.

GRAPHICS

To select an LCD display:

STANDBY

- 1 Press  [MENU]   .
- 2 Select "Defaults" or "Downloads" or "Photos" with the Navigation key
- 3 Select a display from the Animation list by moving the Navigation Key up, down. press  [OK] to save it.

POWER ON

- 1 Press  [MENU]   .
- 2 Select "Defaults" or "Downloads" or "Photos" with the Navigation key
- 3 Select a display from the Animation list by moving the Navigation Key up, down. press  [OK] to save it.

SETTINGS

POWER OFF

- 1 Press  [MENU]   .
- 2 Select "Defaults" or "Downloads" or "Photos" with the Navigation key
- 3 Select a display from the Animation list by moving the Navigation Key up, down. press  [OK] to save it.

INCOMING CALL

- 1 Press  [MENU]   .
- 2 Select "Defaults" or "Downloads" or "Photos" with the Navigation key
- 3 Select a display from the Animation list by moving the Navigation Key up, down. press  [OK] to save it.

OUTGOING CALL

- 1 Press  [MENU]   .
- 2 Select "Defaults" or "Downloads" or "Photos" with the Navigation key
- 3 Select a display from the Animation list by moving the Navigation Key up, down. press  [OK] to save it.

SETTINGS

SCREEN SAVER

- 1 Press [MENU] .
- 2 Select "Time Setting" or "Screen Saver" with the Navigation key
 - Time Setting - Off, 5Secs, 10Secs, 20Secs, 30Secs
 - Screen Saver
- 3 Select a display from the Animation list by moving the Navigation Key up, down. press [OK] to save it.

SUB SCREEN

- 1 Press [MENU] .
- 2 Select "Digital" or "Analog" with the Navigation key
- 3 Select a display from the Animation list by moving the Navigation Key up, down. press [OK] to save it.

SETTINGS

GREETING MESSAGE

To input a personal greeting:

MSG/FONT COLOR/BACKGROUND COLOR

- 1 Press [MENU] .
- 2 Select "MSG" or "Font Color" or "Background Color" with the Navigation key. Press [OK].
 - MSG - Enter message.
 - Font Color - White, Blue, Dark blue, Magenta, Gray, Black.
 - Background Color - Tansparent, White, Blue, Yellow, Gray, Black.
- 3 To save, press [OK].

CONTRAST

To adjust the display contrast:

MAIN LCD/SUB LCD

- 1 Press [MENU] .
- 2 Select "Main LCD" or "Sub LCD" with the Navigation key
 - Main LCD - Level 1~5.
 - Sub LCD - Level 1~5.
- 3 To save, press [OK].

SETTINGS

BACKLIGHT

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

MAIN LCD/KEY PAD

1 Press [MENU] .

2 Select "Main LCD" or "Key Pad" with the Navigation key

- Main LCD - 5s/15s/30s/60s/Always On
- Key Pad - 5s/15s/30s/60s/Always On/Always Off

3 To save, press [OK].

INTERNET

UP PROXY IP

1 Press [MENU] .

HOME URL

1 Press [MENU] .

SETTINGS

PROMPT

1 Press [MENU] .

2 Select one of the following backlight time with the Navigation key.

- None/To Start/To End/Both

3 To save, press [OK].

DATA SVC.

Transfers data from to PC.

CONNECTION

You are to choose a connection mode depending on the usage of handset.

1 Press [MENU] .

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

- 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 Press [OK] to save.



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

SETTINGS

DATA SPEED

You are to choose a connection mode depending on the usage of handset.

1 Press [MENU] .

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

- 19200 bps
- 115200 bps
- 230400 bps

3 Press [OK] to save.



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

PORT

You are to choose a connection mode depending on the usage of handset.

1 Press [MENU] .

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

- USB
- UART

3 Press [OK] to save.



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

SETTINGS

SECURITY

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

PHONE LOCK

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

1 Press and enter "Password".



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

2 Press and select "Unlock", "Lock Now" or "Lock On Power Up".

- Lock Now – Lock the phone now
- Lock On Power Up – Lock the phone whenever it is turned on
- Unlock – Do not lock the phone

3 To save, press [OK].

RESTRICT

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

OUTGOING CALL

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

1 Press [MENU] and enter "Password".

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

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

3 To save, press [OK].

SETTINGS

RECENT CALLS

- 1 Press [MENU] and enter "Password".
- 2 Press and select "Allow" or "Restrict" with the Navigation key.
 - Allow : Allow an recent calls
 - Restrict : Restrict an recent calls
- 3 Press [OK] to save it.

MENU

Restricts access to the menu.

- 1 Press [MENU] and enter "Password".
- 2 Press and select "Allow" or "Restrict" with the Navigation key.
 - Allow : Allow access to the menu
 - Restrict : Restrict access to the menu
- 3 To save, press [OK].

PHONE BOOK

Blocks access to, and protects data in your phonebook.

- 1 Press [MENU] and enter "Password".
- 2 Press and select "Allow" or "Restrict" with the Navigation key.
 - Allow : Allow access to the phonebook
 - Restrict : Restrict access to the phonebook
- 3 To save, press [OK].

SETTINGS

CAMERA

Restricts camera from being placed.

- 1 Press [MENU] and enter "Password".
- 2 Press and select "Allow" or "Restrict" with the Navigation key.
 - Allow : Allows data calls
 - Restrict : Restricts data calls
- 3 To save, press [OK].

DATA CALL

Restricts data calls from being placed.

- 1 Press [MENU] and enter "Password".
- 2 Press and select "Allow" or "Restrict" with the Navigation key.
 - Allow : Allows data calls
 - Restrict : Restricts data calls
- 3 To save, press [OK].

900 #'S

Restricts calling 900 dial service numbers.

- 1 Press [MENU] and enter "Password".
- 2 Press and select "Allow" or "Restrict" with the Navigation key.
 - Allow : Allows 900-dial services
 - Restrict : Restricts calls 900-dial services
- 3 To save, press [OK].

SETTINGS

CHANGE CODE

Changes your 4-digit password

- 1 Press [MENU] and enter "Password".



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

- 2 Press .
- 3 Enter a new password and press [OK].
- 4 Enter the new password again and press [OK].

SPECIAL #'S

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

- 1 Press [MENU] and enter "Password".



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

- 2 Press and select a location with the Navigation key.
- 3 Press [OK] and input a phone number, press [OK] again to save.

SETTINGS

ERASE ALL

Clears all phonebook, downloads, photo album entries.

- 1 Press [MENU] and enter "Password".



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

- 2 Press .
- 3 Select "Phonebook" or "Downloads" or "Photo Album" with the Navigation key and press [OK] to erase it.

RESET PHONE

Resets phone to default settings.

- 1 Press [MENU] and enter "Password".



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

- 2 Press .
- 3 Select "Yes" or "No" with the Navigation key. Press [OK].

When you select "Yes", you will see "Wait a moment" on the display and the phone will restart.

SETTINGS

NETWORK

SET MODE

Selects the Preferred System.

- 1 Press [MENU] .
- 2 Select one of the following options (Automatic /Home only) with the Navigation key and press [OK].

Automatic : Scan the radio channels based on the Automatic 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 [MENU] .
- 2 Select one of the following options with the Navigation key and press [OK].

- No
- 10 Min. or Next Call

SETTINGS

NAM SETTING

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

SET NAM

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

- 1 Press [MENU] .
- 2 Select “NAM1” or “NAM2” then press [OK] to save it.

AIRPLANE MODE

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

- 1 Press [MENU] .
- 2 Press [OK].
- 3 Select “On” or “Off” with the Navigation key. Press [OK].

While in Airplane Mode, your phone's standby screen will display “Phone off.”

SETTINGS

OTHERS

CALL ANSWER

To select an answer mode:

- 1 Press [MENU] .
- 2 Select "Any Key" or "Send Key" with the Navigation key.
 - Any Key – Press any key to answer an incoming call except , , and .
 - Send Key – Press only to answer a call.
- 3 To save, press [OK].

ACTIVE FLIP

Selects an Active Flip Answer mode as follows.

- 1 Press [MENU] .
- 2 Select "On" or "Off" with the navigation key.
- 3 To save, press [OK].

When Active Flip On is selected, an incoming phone call can be answered simply by opening the phone.
When Active Flip Off is selected, you will need to open the phone and follow the Answer mode you have selected.

SETTINGS

AUTO REDIAL

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

RETRY TIME

- 1 Press [MENU] .
- 2 Select a time interval option (Off, 3, 5, 7, 10 seconds) with the Navigation key. To save, press [OK].

REPEAT

- 1 Press [MENU] .
- 2 Select one of the options (1 time, 3 times, 5 times) with the Navigation key. To save, press [OK].

AUTO ANSWER

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

- 1 Press [MENU] .
- 2 Select on of the following with the Navigation key.
 - Off/5/10/15seconds.



This function will not be active when you select Vibrate, Silent, Etiquette or Ringer after Vib as a ringer mode.

- 3 To save, press [OK].

SETTINGS

VOICE DIAL

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

SET ACTIVE

- 1 Press [MENU] .
- 2 Select "Active Flip" or "Send Key" with the Navigation key.
- 3 To save, press [OK].

CAR KIT/HEADSET

- 1 Press [MENU] .
- 2 Select "On" or "Off" with the Navigation key.
- 3 To save, press [OK].

LANGUAGE

Selects the language in which letters are displayed on screen.

- 1 Press [MENU] .
- 2 Select either "English" or "Français".
- 3 To save, press [OK].

SETTINGS

AUTO PREPEND

Enhances voice privacy and avoids tapping during a call.

- 1 Press [MENU] .
- 2 Select "On" or "Off" with the Navigation key
- 3 To save, press [OK].

HANDSET INFO.

SERVING SYSTEM

- 1 Press [MENU] .
- 2 Select one of the following options with the Navigation key and press [OK].

- Roaming Status
- Serving SID
- Channel

VERSION

- 1 Press [MENU] .
- 2 Select one of the following options with the Navigation key and press [OK].

- Hardware
- Software
- PRL ID
- Browser

SETTINGS

MOBILE ID

1 Press  [MENU]    .

2 Select one of the following options with the Navigation key and press  [OK].

- ESN
- MIN

UTILITIES

EVENT

ADD PLAN

1 Press  [MENU]   .

CH
4CH
4

UTILITIES

VIEW EVENT LIST

- 1 Press [MENU] .

UTILITIES

ALARM

You can set up to 3 alarms.

- 1 To display alarm entries, press [MENU] .

- 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 .

- 3
 1. To set a time, press from the Alarm Setting Menu.
 - Use the Navigation Key to choose an alarm frequency (Once, Daily, Weekly, Monthly, Yearly). To save, press [OK]. "Save Complete" will be displayed and the screen will return to the alarm list.
 2. To set a melody, press 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 from the Alarm Setting Menu.
 - Select one of the following:
No use, 1 Time, After 3 minutes.
 4. To set a pause, press from the Alarm Setting Menu.



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

UTILITIES

MEMO PAD

ADD MEMO

- 1 Press [MENU] .

VIEW MEMO

- 1 Press [MENU] .

SEARCH

- 1 Press [MENU] .

SETTINGS

- 1 Press [MENU] .

UTILITIES

CALCULATOR

To access the calculator:

- 1 Press [MENU] .
- 2 Follow the instructions below to calculate $(8*6)/4-2.5$

Input 8.
Move the Navigation key rightward.
Input 6 and press the Navigation key.
Move it leftward.
Input 4 and press the Navigation key.
Move it downward.
Input 2 and press the to input (.).
Press 5, .

- 3 To reset, press [Reset].

WORLD CLOCK

Notifies you of the time in a specific preprogrammed city.

- 1 Press [MENU] .
- 2 Select a city with the Navigation key.
- 3 The world map is to be displays with the city, its date and time.

Use the Navigation key to select another city.

UTILITIES

STOPWATCH

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

- 1 Press [MENU] .
- 2 To measure a time period.
 1. To start the stopwatch, press .
 2. To pause it, press .
 3. To resume it or [RESET] to return to the previous page, press [EXIT].
- 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 [CONT].
 3. To stop the second and continue measuring a third one, press [CONT].
 4. To measure up to six time periods, repeat the above steps.
 5. To stop, press . To review the results, press [VIEW].
 6. To return to the stopwatch, press or .
 7. To reset it, press [RESET].

CAMERA

TAKE A PHOTO

- 1 Press [MENU] .

CAMERA

PHOTO ALBUM

1 Press [MENU] .

CAMERA

PHOTO MAIL

NEW PICTURE

1 Press [MENU] .

SAVED PICTURE

1 Press [MENU] .

CAMERA

PC CAMERA

1 Press [MENU] .

Chapter 5

VOICE SERVICE

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.



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."

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)".

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.



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.

VOICE RECOGNITION MODE

REDIAL

- 1 Press and hold  until your phone turns to Voice Recognition mode.
- 2 Say "Redial" to dial the last dialed number.

VOICE MEMO

- 1 Press and hold  until your phone turns to Voice Recognition mode.
- 2 Say "Voice Memo" and follow the steps as instructed in the display.
- 3 To stop recording a memo, press  and to cancel it, then press .



To pause, press . To resume, press .

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

VOICE RECOGNITION MODE

PHONE BOOK

- 1 Press and hold  until your phone turns to Voice Recognition mode.
- 2 Say "Phone book".

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



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 SERVICE MENU

VOICE MEMO

- 1 Press   to start Voice Service menu.
- 2 To enter a voice memo, press .
- 3 1.To record a voice memo, press .
Instructions will be displayed and you will hear "Please record at the tone."
2.To play voice memos, press .
- 3.To play speaker mode, press .
- 4.To erase all voice memos, press .
- 4 To stop recording a memo, press .
-  To pause or resume, press .
To stop, press .
- 5 After recording a voice memo you can REVIEW, RE-RECORD, or SAVE.

VOICE SERVICE MENU

VOICE DIAL

- 1 Press   to start Voice Service menu.
- 2 To enter a voice memo, press .
- 3 1.To record a voice memo, press .
Instructions will be displayed and you will hear "Please record at the tone."
2.To view and play voice memos, press .
- 3.To play speaker mode, press .
- 4.To erase all voice memos, press .
- 4 To stop recording a memo, press .
-  To pause, press . To resume, press .
- 5 After recording a voice memo you can REVIEW, RE-RECORD, or SAVE.

VOICE SERVICE MENU

TRAIN WORD

YES

1 Press [MENU] [7ms] [3ms] [2ms] .

VOICE SERVICE MENU

WAKE-UP

1 Press [MENU] [7ms] [3ms] [3ms] .

NO

1 Press [MENU] [7ms] [3ms] [2ms] .

UNDO TRAIN ALL

1 Press [MENU] [7ms] [3ms] [4ms] .

MEMO

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 MESSAGE
- INBOX
- OUTBOX
- FILED
- CANNED
- ERASE ALL
- SETTINGS

WHEN A NEW MESSAGE ARRIVES

- 1 The following display appears when a new message arrives.
- 2 To display the message, press [READ].

VOICE MAIL

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

- 1 To access your voice mail, press or press .

SEND MESSAGE

To send a new message:

- 1 Press or press .
- 2 Input a receivers phone number and press [OK].

You can look it up from the phone book by pressing [MENU].
- 3 Input a new text message and press [OK].
 (Please refer to page 31 for more details on entering letters and numbers.)
- 4 Input a default callback number and press [OK].
- 5 Select the priority (NORMAL/URGENT) by using the navigation key.
- 6 To send the text message, press [SEND].
- 7 To save the text message, press [MENU] and select the "Save to Outbox" then press [OK].

INBOX

Manages received text messages.

- 1 Press or press .

	: 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 [OK].
The message is displayed.

- 3 Press [MENU].

1. REPLY

- 1 To reply to the text message, press .

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

2. REPLY WITH COPY

- 1 Reply to the received message with received phone no & contents.

3. FORWARD

- 1 To forward the text message, press "FORWARD".
- 2 Input the phone number of the person you are sending the message, then press [OK].
- 3 Input any text message to go along with the forwarded message, then press [OK].

INBOX

4. SAVE TO FILED

- 1 To save the text message in your phone, press "SAVE TO FILED".

- 2 Press .

5. SAVE TO CANNED

- 1 Press .

6. SAVE TO CONTACT

- 1 Press .

7. LOCK & UNLOCK

- 1 To lock or unlock the text message, press "LOCK/UNLOCK".

- 2 Select LOCK to lock the message or UNLOCK to unlock the message, then press [OK].

OUTBOX

Manages sent text messages or messages waiting to be sent.

CHECKING SENT TEXT MESSAGES

- 1 Press or press . Select a message with the Navigation key. Then, press [OK].

: Auto resend
 : Delivered
 : Fail
 : Not send
 : Read
 : Sent

- 2 The text message is displayed.

- 3 Press [MENU].

1. RESEND

- 1 To resend a text message, press .

2. SEND TO

- 1 To send a message to another person, press .
- 2 Input the phone number and press .
- 3 Input a text message and press .

OUTBOX

3. SAVE TO CONTACT

- 1 Press .

4. SAVE TO FILED

- 1 Press .

5. LOCK & UNLOCK

- 1 To lock or unlock the text message, press "LOCK/UNLOCK".
- 2 Select LOCK to lock the message or UNLOCK to unlock the message, then press .

6. STATE

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

FILED

FILED

Manages saved messages from the Inbox/Outbox.

1 Press  or press .
Select a text message with the
Navigation key.
Press  [OK].

2 The text message is displayed.
Press  [MENU].

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 .

CANNED

CANNED

1 Press  or press .

ERASE ALL

ERASE MESSAGES

- 1 Press / / or press / .
- 2 1. To erase all the inbox messages, press .
Erases entire inbox or old inbox.
2. To erase all the outbox messages, press .
Erases entire outbox or old outbox.
3. To erase the filed messages, press .
4. To erase the voice mail, press .
5. To erase the canned, press .
- 3 Select "OK" or "CANCEL" with [OK] or [CANCEL].

SETTINGS

Manages messaging features through various features.

SAVE SENT MSG

Saves every sent message.

- 1 Press / / or press / .
- 2 Press .
Select one from Off/On/Prompt with the Navigation key.
Press [OK].

DEFAULT CALL BACK NUMBER

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

- 1 Press / / or press / .
- 2 Press .
Input a call back number.
then press [OK].

ALERT

Enables phone to alert you of an incoming message..

- 1 Press / / or press / .
- 2 Press .
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 [OK].

SETTINGS

AUTO ERASE

Automatically erases inbox/outbox messages when new messages arrive.

1. AUTO ERASE INBOX

- 1 Press / or press .
- 2 Press .
Select "Disable" or "Old Inbox" with Navigation key.
- 3 Press [OK].

2. AUTO ERASE OUTBOX

- 1 Press / or press .
- 2 Press .
Select "Disable" or "Old Outbox" with Navigation key.
- 3 Press [OK].

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 / or press .
- 2 Then press .
Select "T9 Mode" or "Alpha Mode" with the Navigation key.
- 3 Press [OK].

SETTINGS

SET PREPEND

- 1 Press / or press .
- 2 Then press .
Select "On" or "Off" with the Navigation key.
- 3 Press [OK].

DIRECT VIEW

- 1 Press / or press .
- 2 Then press .
Select "On" or "Off" with the Navigation key.
- 3 Press [OK].

ON : Set to read msg without entering inbox in SMS menu.
OFF : Set to read msg after entering inbox in SMS menu.

MEMO

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

CH
6

CH
7

108

109

START INTERNET BROWSER

ACCESS THE INTERNET

- 1 To start your Internet browser and access websites through your wireless handset press    or press   .

BROWSER MENU

The browser menu lists the actions necessary to operate the browser. press    or press    to access the browser menu.

BACK

- 1 To return previous page, press    or press   , then press .

HOME

- 1 To display the homepage, press    or press   , then press .

EXIT

- 1 To exit browser, press    or press   , then press .

BROWSER MENU

MARK SITE

- 1 To add the current page to your bookmark list, press    or press   , then press .

"No bookmark service site" is displayed when the Internet site cannot support the bookmark service.

BOOKMARKS

- 1 To view your bookmark list, press    or press   , then press .
- This provides easy website access without entering its URL.

INBOX

Display inbox list.

- 1 To select Inbox, press    or press   , then press .

RELOAD

Reloads current page.

- 1 To select Reload, press    or press   , then press .

BROWSER MENU

SETTINGS

Displays Browser Menu Settings.

- 1 To select Settings, press   or press  , then press .

HOMEPAGE

Enables you to change the homepage.

- 1 To select Homepage, press .

PROXY

Enables you to select another WAP PROXY.

- 1 To select Set UP.Link, press .

CIRCUIT LINGER

- 1 To select Circuit Linger Timer, press .

SCROLL MODE

- 1 To select scroll mode, press .

SCROLL SPEED

- 1 To select scroll speed, press .

KEY PRESS TIMEOUT

- 1 To select Key Press Timeout, press .

BROWSER MENU

SECURITY

Display Security Menu Options.

- 1 To select Security, press .

ADVANCED

Displays Advanced Menu options.

- 1 To select Set UP.Link, press .

- SHOW URL
Displays the URL (Uniform Resource Locator) of the current page.
1. To select Show URL, press .
- RESTART BROWSER
Causes the deck history and deck cache to be cleared and starts a new session with the UP. Link.
1. To select Restart Browser, press .

MEMO

Chapter 8

SAFETY AND WARRANTY

This chapter addresses the safety guidelines and precautions to follow when operating your phone. Please make sure to be aware of all the details about the safety to operate your phone in the way that you are supposed to.

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

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.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

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.

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

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 Commission (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 damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION

This device was tested for typical body-worn operations with the back of the phone kept 2.0 cm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 2.0 cm. separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, 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.



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 government adopted 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 1.13W/kg and when worn on the body, as described in this user guide, is 0.584W/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-95C.

SAR INFORMATION

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (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 substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

FDA CONSUMER UPDATE



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 effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

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 devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

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

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

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

The National Institutes of Health participates in some 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 exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the 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.

FDA CONSUMER UPDATE

These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures 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 wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

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

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 important questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world.

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

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 Electrical 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 exposure 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 energy 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 leadership of FDA scientists and engineers. The standard, "Recommended 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 measurement 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 antenna.

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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 Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones (<http://www.fda.gov/cdrh/phones/index.html>)
- Federal Communications Commission (FCC) RF Safety Program (<http://www.fcc.gov/oet/rfsafety>)
- International Commission on Non-Ionizing Radiation Protection (<http://www.icnirp.de>)
- World Health Organization (WHO) International EMF Project (<http://www.who.int/emf>)
- National Radiological Protection Board (UK) (<http://www.nrp.org.uk/>)

PROTECT YOUR WARRANTY

Read your Warranty carefully, with the special consideration to paragraph seven of the Limited Warranty for your unit.

"Warranty does not apply to... or to any product or part thereof which has suffered through alteration... mishandling misuse, neglect or accident".

Many companies are making look alike accessories and in some cases, promoting that their product is equal to or better than the Audiovox product. Be careful. Some of these products may not be compatible to use with your Audiovox product and may damage the unit or cause it to malfunction. If service is required on your unit and it is determined that a non-Audiovox accessory has created the problem with your unit, the Warranty will not apply. In addition, if the unit has already suffered irreversible damage by reason of a non-compatible accessory, the Warranty will be voided. To protect your Warranty, use only compatible accessories which cannot damage or interfere with the functioning of your Audiovox product.



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12 MONTH LIMITED WARRANTY

Audiovox Communications Corp. (the Company) warrants to the original retail purchaser of this Audiovox handheld portable cellular telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) month period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The antenna, keypad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase.

This Warranty extends only to consumers who purchase the product in the United States or Canada and it is not transferable or assignable.

This Warranty does not apply to:

- (a) Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- (b) Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.
- (c) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;
- (d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- (e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- (f) Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna or for communications range or operation of the cellular system as a whole.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime phone number and/or fax number and complete description of the problem, transportation prepaid, to the Company at the address shown below or to the place of purchase for repair or replacement processing.

12 MONTH LIMITED WARRANTY

In addition, for reference to an authorized Warranty station in your area, you may telephone in the United States (800) 229-1235, and in Canada (800) 465-9672 (in Ontario call 905-712-9299).

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