

WELCOME

Thank you for choosing the CDM8910US, our latest CDMA2000 1X camera phone with a MSM6050 chipset. This phone allows for high speed communication services, such as web browsing and data services, as well as offering many user friendly features including:

- Full graphic display of 9 text input lines and 1 icon line with variable font size.
- Dial a number with your voice using VR (Voice Recognition) mode.
- 1.8" 65K Color CSTN main LCD with a 1" black and white outer display.
- Built-in 310K pixel camera with flash.
- Built-in speakerphone and voice recognition.
- Text and Picture messaging capabilities.
- TTY Capable
- One touch access to **easyedge**SM.

IMPORTANT INFORMATION

This CDM-8910 user guide contains very important information about how to handle and use the product. 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-8910 including:

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

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INSIDE THE PACKAGE

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This package should include all items pictured below. If any items are missing or defective, please contact the retail store where you purchased the phone immediately.



Handset



Charger



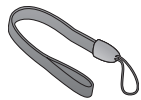
Standard Battery



User Manual



Holster



Handstrap



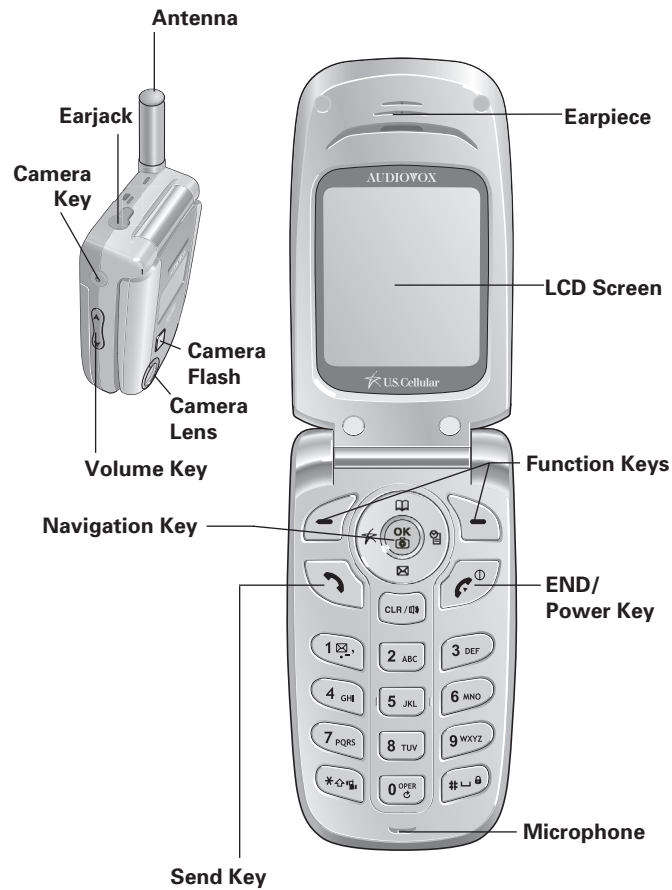
Ear-Mic

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HANDSET DESCRIPTION

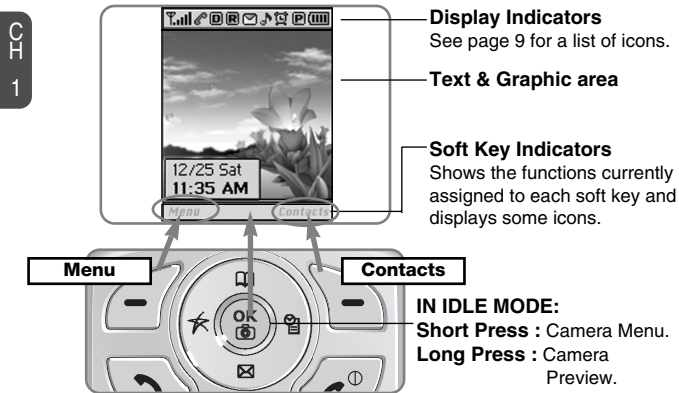
This phone is a CDMA2000 1X digital (800 MHz CDMA/AMPS, 1900 MHz PCS) phone with camera. The CDM-8910 weighs 3.7oz. The dimensions are 4.5" x 1.8" x .9" .

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HANDSET DESCRIPTION



THE FUNCTION KEYS

- Phone Book**
In Idle Mode
- Press up to access the Phone Book, down to access Messaging, right for Event and left for easyedgeSM.
- Event**
Inside the menu
- Within a menu, use to scroll through menu options or to select a function displayed on the screen.
- Messaging**
- Press to make or receive a call. Press and hold to turn on VR mode.
- Press to turn the phone on, to terminate a call or to return to the initial page. Press and hold to turn the phone off.
- (Left Soft Key) Press to access the menu or function displayed on bottom line.
- (Right Soft Key) Press to access the contact list or function displayed on bottom line.
- Press to clear a digit from the display or to return to the previous page. Press and hold to enable speakerphone mode.
- Press and hold to enter Etiquette Mode.
- Press and hold to enter Lock Mode.
- Flip Closed:** Sub LCD Camera Preview Mode. **Flip Open:** Camera Preview Mode.

HANDSET DESCRIPTION

DISPLAY INDICATORS

- Signal Strength** - Current signal strength: the more lines, the stronger the signal.
- Battery**
Battery charging level – the more blocks, the stronger the charge.
- Service Indicator**
 Indicates call is in progress, indicates the phone cannot receive a signal from the system.
- Digital mode**
Phone is operating in digital mode.
- 1X**
Phone is in the 1x service area.
- Analog Mode**
Phone is operating in analog mode.
- Roaming**
Phone is out of home area.
- Emergency Call**
Blinks when an emergency call is in progress.
- Mute**
Phone is mute during a call.
- Scratch Pad**
Displays when scratchpad is in use during a call.
- Silent**
Appears when Silent is selected as the ring mode.
- Etiquette Mode**
All sounds have been muted, including ringer.
- Message Indicator**
 Unread Message Voice Message Text Message
- Ring Mode Indicator**
 Ringer High & Vib Ringer Off
- Speakerphone**
Phone is in speakerphone mode.

HANDSET DESCRIPTION

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Headset

Indicates that a headset is connected.



Schedule

Appears when either an plan or an alarm is set.



Auto Answer

Phone is in answering machine mode.



TTY Mode

Indicates your phone is in TTY mode is active.



Phone Lock

Indicates your phone is locked.



Dormant

Indicates your phone is in a dormant state during a data call. Your phone goes to Dormant mode when there's been no activity on a page for some time - your connection is still active and now you can make and receive calls.



Data Only

Receives an async. call as a voice call.



Fax Only

Receives a fax call as a voice call.



GPS Icon

Indicates the Location Service of your phone is disabled/enabled.



Voice Privacy

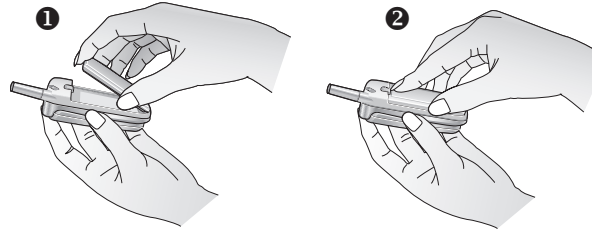
Indicates "Voice Privacy" mode.

BATTERY USAGE

BATTERY INSTALLATION



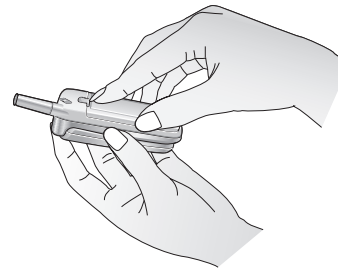
1 Place the battery on the back of the handset and slide into place. 2 Push the battery down until it locks into place.



BATTERY REMOVAL



1 Push the release latch up and lift the battery to remove it from the handset.



If the battery is not correctly placed in the compartment, the handset will not turn on and/or the battery may detach during use.

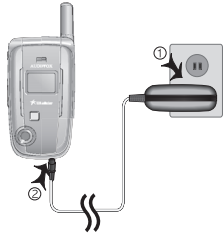
BATTERY USAGE

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BATTERY CHARGING

POWER CONNECTION

- 1 Plug the AC Charger into a standard outlet.
- 2 Plug the other end of the AC Charger into the bottom of your phone. The battery must be installed on the phone.



- The battery is not charged at the time of purchase.
- Fully charge the battery before using it for the first time.
- It is more efficient to charge the battery with the handset powered off.
- The battery must be connected to the phone in order to charge it.
- Battery operating time gradually decreases over time.
- If the battery fails to perform normally, you may need to replace the battery.
- Phone LED will light red and "Charging..." will be displayed on the screen while charging is in progress.
- Phone LED will light green and "Charging is complete!" will be displayed on the screen when the battery is fully charged.
- Typical charge times for a full charge.
Standard Batteries : 2~3 hours/Extended Batteries : 3~4 hours

BATTERY USAGE

BATTERY TALK TIMES

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

Battery Capacity	CDMA	PCS	AMPS
STD 1000 mAh	200 min.	190 min.	80 min.
EXT 1700 mAh	330 min.	330 min.	130 min.

BATTERY STANDBY TIMES

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

Battery Capacity	CDMA	PCS	AMPS
STD 1000 mAh	190 hours	250 hours	20 hours
EXT 1700 mAh	220 hours	450 hours	35 hours



These times are for a new battery. Talking and Standby time may decrease over time.

BATTERY HANDLING INFORMATION

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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.

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Chapter 2 BASIC OPERATION

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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

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TURNING THE PHONE ON / OFF

TURNING THE PHONE ON

- 1 Press and hold  until "Power On" logo appears and the tone sounds.



- To select a Power On graphic, refer to page 60 for more details. (Settings>Display>Graphics>Power On).
- If "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

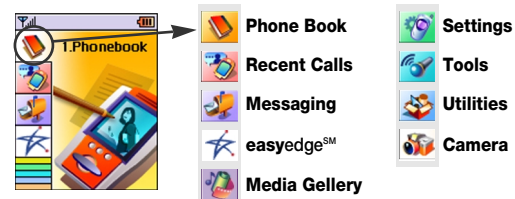
- 1 Press and hold  until "Power Off" logo appears.







- 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, unsaved 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 To scroll through the menu options, press the Navigation Key up or down.
- 3 To return to the previous page, press  . To exit the current menu and return to the idle mode, press  .
- 4 Press  to enter a function when its main page is displayed or press its assigned number.



Hotkey

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

- Upward movement : Phone Book
- Downward movement : Messaging
- Rightward movement : Event
- Leftward movement : **easyedge**SM

MENU SUMMARY

7. Tools	1. Voice Memo	1. Record 2. Play 3. Play Speaker 4. Erase All
	2. Voice Dial	1. Record 2. Play 3. Play Speaker 4. Erase All
	3. Train Words	1. Yes 2. No 3. Wake-Up 4. Undo Train All
	4. Voice Setting	
8. Utilities	1. Event	1. Add Plan 2. View Event List
	2. Alarm	1. Item 1 2. Item 2 3. Item 3
	3. Memo Pad	1. Add Memo 2. View Memo 3. Settings
	4. Calculator	
	5. World Clock	
	6. Stop Watch	
9. Camera	1. Take a Photo	
	2. Photo Gallery	1. New Photo 2. Saved Photo
	3. Photo Message	
	4. 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 .



2 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 RETRY" function, the phone will automatically retry for the number of times you have selected. (refer to page 72).
- When you place or receive a call from stored phone numbers, both the name and phone number will be displayed.
- You can also dial a number through VR Mode.
Please see page 93 "Voice Dial" for instructions on setting up a voice tag and dialing a voice tag number simply by speaking the name.




3 To end a call, press .

BASIC FUNCTIONS




SPEAKERPHONE

The speakerphone feature lets you listen to audio through the speaker and talk without holding the phone.

- 1 To activate the speakerphone in idle, answering or calling modes, press and hold .
- 2 The phone returns to normal (speakerphone off) after ending a call or when the phone is turned off and back on.





PAUSE FEATURE







Pauses are used for automated systems (i.e., voice mail, calling cards). Insert a pause after a phone number then enter another group of numbers. The second set of numbers is dialed automatically after the pause. This feature is useful for dialing into systems that require a code.


- 1 To insert a pause, enter a phone number then press  [MENU]. Select either a Hard Pause ("P" appears) or a Timed Pause ("T" appears).
- 2 Press  to dial or  [SAVE] 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 , ,  or .

- By pressing , , , , , 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 .




- 2 To end the call, press .



In Auto Answer Mode a call is automatically answered after a preset number of ring tones. See page 72 for more details.

3-WAY CALL FUNCTION

With 3-Way Calling, you can talk to two people at the same time. When using this feature, the normal airtime rates will be applied for each of the two calls.

- 1 Enter a number you wish to call, then press .
- 2 Once you have established the connection, enter the second number you wish to call, then press .
- 3 When you're connected to the second party, press  again to begin your 3-Way call.



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

BASIC FUNCTIONS

CALLER ID FUNCTION

Identifies caller by displaying their phone number.
If the caller's name and number are already stored in your phone book, they both will appear.



- The caller ID is stored in the call history.
- Flip Closed:** If the phone number is in your Contacts list, the contact's name is displayed the Sub LCD.
- Flip Open:** If the phone number is in your Contacts list, the contact's name and phone number is displayed the Main LCD.

CALL WAITING FUNCTION

Notifies you of an incoming call when you are already on a call by sounding a beep tone and displaying the caller's phone number.

- 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.



Call Waiting is a system dependent feature. Please contact U.S. Cellular® for details.

ADJUSTING VOLUME

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

- Press [MENU] , then select one of the following.

- Ringer : Controls the ringer volume.
- Key Tone : Controls the key pad tone.
- Voice Call : Controls the earpiece volume.
- Speakerphone : Controls the speaker volume.

- Adjust volume, then press [OK] to activate it.



To adjust earpiece volume during a call, press the Navigation Key up or down.

BASIC FUNCTIONS

ETIQUETTE

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



- To turn Etiquette Mode on/off, press and hold . will be displayed to indicate Etiquette Mode is active. An audible tone sounds when etiquette is turned off.

LOCK

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



- To lock the phone, press and hold .




- To unlock the phone, press , or , then input your password.

- The lock feature will deactivate when the phone is powered 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  [MENU].

MESSAGING

Enables you to send a message during a call.



1 Press  [MENU]  .

2 To access the Messaging menu.
Please refer to page 99 for more details on Voice Mail, Text and Photo Message.

MUTE (UNMUTE)



The caller cannot hear you or any sounds from your side but you can still hear them.


1 Press  [MENU]  .


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

SCRATCHPAD

Stores a new phone number during a call without the calling party hearing the key pad tones.

1 Press  [MENU]  .



- To deactivate it, press  [MENU]  .

2 Enter phone #, then press  [SAVE].

NOTE To find a saved phone number in your Phone Book list.

SEND MY PHONE

Automatically transmits your phone number to a pager during a call. (Dependent on pager service)

1 Press  [MENU]  .



DURING A CALL

MY PHONE

Displays your phone number.

1 Press  [MENU]  .



VOICE PRIVACY

Increases security during a call.

1 Press  [MENU]  .

LOCATION

Enables the network to locate your current location through Global Positioning System (GPS). (Refer to page 74 for more details.)

1 Press  [MENU]  .

PHONE INFO.

Displays the software and hardware version of your phone.

1 Press  [MENU]  .




MAKING AN EMERGENCY CALL


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

911 IN LOCK MODE

The 911 call service is available even in Lock Mode.

- 1 Enter "911", then press .
- 2 The call connects.
- 3 The phone exits Lock Mode for 5 minutes.
 - When the call ends, the phone returns to Lock Mode.

911 USING ANY AVAILABLE SYSTEM

- 1 Enter "911", then press .
- 2 The call connects.
- 3 The phone maintains the Emergency Mode for 5 minutes.
 - The phone returns to Lock Mode.
 - While the phone is in the emergency mode for 5 minutes, the phone can receive an incoming call from any available system. However, it can't make a call.



The 911 call is not recorded in the recent call list.




Chapter 3 MEMORY FUNCTION






This chapter addresses memory functions including:

- STORING A PHONE NUMBER
- ENTERING LETTERS, NUMBERS & SYMBOLS

STORING A PHONE NUMBER


The phone book stores up to 300 entries.

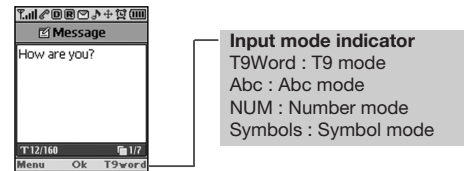
- 1 Enter phone #, then press  [SAVE].
- 2 Choose “New Contact” or “Existing Contact”. Press  [OK] to select.
- 3 If New Contact is selected, the phone # will appear above a list of icons. The name of the icon is displayed below the list. Press the Navigation Key left or right to choose the type of # you’re adding, as indicated by the icon. Press  [OK] to select.

If Existing Contact is selected, the Find screen will appear. Select the contact name you are editing, then press . The new number will appear above the list of icons. Select the type of # you’re adding, then press  [OK].
- 4 Enter a name, then press  [OK]. There is a 16 character limit. Please refer to page 31 for more details on entering letters, numbers & symbols. To change the input mode, press  [Abc]. Press the Navigation Key down to select complete the other options (email address, group, secret, etc).
- 5 To store the entry, press  [SAVE]. “New contact added!” or “Contact edited!” 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 (T9Word), Numeric mode (NUM), and Symbol mode (Symbols).

The input mode indicator appears on the lower 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.



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

KEY	FUNCTION
 Mode	Press to change mode. [T9Word][Abc][NUM][Symbols]
 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.
 Caps Lock	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. [T9Word], [T9WORD], and [T9word] indicate the predictive text input.
 Clear	Press to delete a character to the left of the cursor.
 Save	Press to 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 key pad as follows:

Key Pad	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 [Abc].

- 2 To enter a space, press . 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 .



Select Abc mode by pressing [Abc].

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 T9Word mode by pressing [Abc].
- 2 Press a digit key once to enter the character you want, then enter all the characters to input the word you want.
- 3 To view the next matching word, press .
- 4 To accept the matching word, then enter a space, press .



To enter a compound word:

- Enter the first part of the word, then press to accept it.
- Enter the last part of the word, then press to enter the word.



To enter "Fun fare" in the T9 input mode.

- Press [Abc] to select the T9 input mode and to choose the small letter case (T9Word).
- Press and you will see "Fun" highlighted. Press to select it.
- Press until you see "ease" highlighted. Press to select the next matching word, you will see "fare", then enter a space.

ENTERING LETTERS, NUMBERS & SYMBOLS

NUMERIC MODE

Allows you to enter numbers.

- 1 To enter Numeric Mode, press [ABC] and select "NUM".
- 2 To enter a number, press a digit key.

SYMBOL MODE

Allows you to enter symbols.

- 1 To enter Symbol Mode, press [ABC] and select "Symbols".
- 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 [↑ ↓].



Chapter 4

MENU FUNCTION

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

- PHONE BOOK
- RECENT CALLS
- **easyedge**SM
- MEDIA GALLERY
- SETTINGS
- UTILITIES
- CAMERA

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 name and calls by simply pressing . You can review all the entries stored in your phone book list or quickly find an entry by entering a name or phone number.

Shortcut: From standby mode, press [Contacts] to display your internal Phone Book list.

FIND BY NAME

Lists contacts alphabetically so you can quickly find a name.

- 1 Press [MENU] or .
- 2 The list of names in your phone book is displayed alphabetically.
- 3 Enter a name or its character string or scroll through the list with the Navigation Key. Please refer to page 31 for more details on entering letters, numbers & symbols.
- 4 The list beginning with the letter you entered is displayed. Highlight an entry. Press [OK] to edit the entry. Press [MENU] to view options. If the contact has a mobile phone number your options will be 1. Send Text Msg, 2. Send Photo Msg, 3. Prefix, or 4. Erase. If no mobile number is saved for the contact, your options will be 1. Prefix, 2. Erase. If only an email or web address is saved for the contact, your options will be 1. Send Text Msg, 2. Send Photo Msg or 3. Erase.

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

Please refer to page 101 or page 102 for more details on “New Text Msg” & “New Photo Msg”.

- 5 To call the selected number, press .

PHONE BOOK

FIND BY NUMBER

Lists contacts numerically so you can quickly find a number.

- 1 Press [MENU] or .
- 2 The list of phone numbers saved in your phone book will be displayed in numerical order.
- 3 Enter a part of the phone number or scroll through the list with the Navigation Key. The name associated with that number will be displayed at the bottom of the screen.
- 4 Highlight an entry. Press [OK] to edit the entry. Press [MENU] to view options. If the contact has a mobile phone number your options will be 1. Send Text Msg, 2. Send Photo Msg, 3. Prefix, or 4. Erase. If no mobile number is saved for the contact, your options will be 1. Prefix, 2. Erase. If only an email or web address is saved for the contact, your options will be 1. Send Text Msg, 2. Send Photo Msg or 3. Erase.
 - If the entry is set to secret, you will be asked for your password.

Please refer to page 101 or page 102 for more details on “New Text Msg” & “New Photo Msg”.
- 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] or .
- 2 The Contact screen appears. Enter the name of the entry. Press the Navigation Key down to enter information for the other phone book fields.

PHONE BOOK FIELDS :
Name/Mobile/Home/Office/Pager/Fax/E-Mail/Wireless
Addr./Group/Ringer/Msg.Ringer/Graphic/Memo/
Set Secret.

Please refer to page 31 for more details on entering letters, numbers & symbols.

- 3.1 To save the entry, press [SAVE].
- 3.2 To return to the previous page, press [CLR/END].

GROUP

Allows you to classify phone entries into groups. Existing groups include Personal, Business, Etc. and All. A maximum of seven groups is allowed.

ADD NEW GROUP

- 1 To add a new group, press [MENU] or .
- 2 To select "Add Group", press [MENU].
- 3 Input a new group name.
- 4 To save it, press [OK].

NOTE To add a phone book entry to a group, select the name of the group from the Group field when you add or edit the phonebook entry.

PHONE BOOK

CHANGE GROUP NAME

- 1 Press [MENU] or .
- 2 Select an existing group name that you have added with the Navigation Key.
- 3 To select "Rename", press [MENU].
- 4 Input a new group name.
- 5 To save it, press [OK].

NOTE The default group names (All, Personal, Business, Etc.) cannot be changed.

ERASE GROUP

- 1 Press [MENU] or .
- 2 Use the Navigation Key to select, then delete the group.
- 3 To delete it, press [ERASE].
- 4 To erase it, press [OK].

NOTE

- The default group names (All, Personal, Business, Etc.) cannot be erased.
- When executing erase group, the saved entries are moved to the Etc. group.

PHONE BOOK

SPEED DIAL

In idle mode, calls can be placed to numbers stored in speed dial by pressing & holding the location number on the key pad. For a 2-digit location number, press the first number, then press and hold the second number.

- 1 Press [MENU] or .
 - 2 To assign a phone number to a location, select the location, then press [SET].
 - If a phone number is already assigned to the location, press [ERASE] and [OK] to delete.
 - 3 Select the entry with the Navigation Key then press [OK].
 - If the entry is set to secret, you will be asked for your password.
- NOTE**
- "Unassigned" appears if the location is available.
 - To call an assigned number, press & hold the last digit of the speed dial #.
- 4 "Speed Dial # X edited" will be displayed.

PHONE BOOK

MSG. GROUP

Allows the user to group up to 10 phone numbers. The user can add, change, and delete Msg.Group.

ADD NEW MSG. GROUP

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

NOTE To add a phone book entry to a Msg group, press [MENU] , select the Msg group, then press . Choose a location, then press [SET]. Scroll to the phone book entry, then press [OK].

CHANGE MSG. GROUP NAME

- 1 Press [MENU] or .
- 2 Select an existing group name with the Navigation Key.
- 3 To select "Rename", press [MENU].
- 4 Input a new group name.
- 5 To save it, press [OK].

PHONE BOOK

SEND TEXT MSG. GROUP

- 1 Press [MENU] 5 JKL or 5 JKL.
- 2 Scroll to the group name. Select an existing group name with the Navigation Key.
- 3 To select "Send Text Msg.", press [MENU].
- 4 Press the Navigation Key down to select the Message field.
- 5 5.1. To send the text message, press [MENU], select "Send", then press [OK].
5.2. To save the text message, press [MENU], select "Save to Outbox", then press [OK].

Please refer to page 101 for more details on "New Text Msg".

PHONE BOOK

SEND PHOTO MSG. GROUP

- 1 Press [MENU] 5 JKL or 5 JKL.
- 2 Scroll to the group name. Select an existing group name with the Navigation Key.
- 3 To select "Send Photo Msg.", press [MENU].
- 4 Input a "Message", "Subject", "CC" and "BCC".
- 5 To send the picture message, press [MENU], select "Send", then press [OK].
Please refer to page 102 for more details on "New Photo Msg".

ERASE MSG. GROUP

- 1 Press [MENU] 5 JKL or 5 JKL.
- 2 Select an existing group name with the Navigation Key.
- 3 To delete it, press [ERASE].
- 4 To erase it, press [OK].

PHONE BOOK

MY PHONE

To display your phone number:

- 1 Press [MENU] [1] or [6] or [6] [MHO].
- 2 To return to the previous page, press [OK].

RECENT CALLS

In idle mode, you can access recent calls by pressing [MENU] [2].

ALL CALLS

Displays information about the most recent received, dialed and missed calls.

- 1 To see a list of the 60 most recent incoming, outgoing and missed calls, press [MENU] [2] [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 details, press [OK].



Call details include type of call, date, time and phone number.

- 3 Press [MENU] and select "SAVE" to save it or press [ERASE] to delete it.


- Save: To store the phone number in your phone book.
- Prefix: The user may add the desired number before the number. It is useful when you add "1" during a long distance call. You may save it in the phone book after entering the Prefix.
- Send Text Msg: To send a Text Message, insert the phone number.
- Send Photo Msg: To send a photo message, insert the phone number.
- Erase All: To erase the recent calls list.







After the 60th received, dialed or missed calls, the oldest call will automatically be erased from the history.


RECENT CALLS



MISSED CALLS

Displays information about 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]  . 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  [OK].

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


3 Press  [MENU] and select “SAVE” to save it or press  [ERASE] to delete it.




- Save: To store the phone number in your phone book.
- Prefix: The user may add the desired number before the number.
It is useful when you add “1” during a long distance call.
You may save it in the phone book after entering the Prefix.
- Send Text Msg: To send a Text Message, insert the phone number.
- Send Photo Msg: To send a photo message, insert the phone number.
- Erase All: To erase the missed calls list.


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


RECENT CALLS



RECEIVED CALLS

Displays information about the 20 most recently answered calls.
Place a call to a received call by simply pressing .


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

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


3 Press  [MENU] and select “SAVE” to save it or press  [ERASE] to delete it.





- Save: To store the phone number in your phone book.
- Prefix: The user may add the desired number before the number.
It is useful when you add “1” during a long distance call.
You may save it in the phone book after entering the Prefix.
- Send Text Msg: To send a Text Message, insert the phone number.
- Send Photo Msg: To send a photo message, insert the phone number.
- Erase All: To erase the received calls list.

 *After 20 received calls, the oldest call will automatically be erased from the history.*

RECENT CALLS



DIALED CALLS

Displays information about the 20 most recently dialed numbers. Place a call to a dialed call by simply pressing .

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



Call details include type of call, date, time and phone number.

- 3 Press  [MENU] and select "SAVE" to save it or press  [ERASE] to delete it.

- Save: To store the phone number in your phone book.
- Prefix: The user may add the desired number before the number.
It is useful when you add "1" during a long distance call.
You may save it in the phone book after entering the Prefix.
- Send Text Msg: To send a Text Message, insert the phone number.
- Send Photo Msg: To send a photo message, insert the phone number.
- Erase All: To erase the dialed calls list.



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

RECENT CALLS

CALL TIMERS

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






LAST CALL

Displays usage time of last call.

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







ALL CALLS

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

- 1 Press  [MENU]    .
- 2 View the time of the following items:
 - Voice Call
 - Data/Fax Call
- 3 To return to the previous page, press  [OK].

HOME CALLS

Displays usage time of all calls made within Home area.

- 1 Press  [MENU]    .
- 2 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

ROAM CALLS

Displays usage time of roaming calls.

- 1 Press [MENU] 2 ABC 5 JKL 4 GH.
- 2 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].

CUMULATIVE CALLS

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

- 1 Press [MENU] 2 ABC 5 JKL 5 JKL.
- 2 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].

easyedgeSM

Your phone provides a unique feature - **easyedgeSM** - that enables you to download melody ringers, wallpapers, games and more from your network to your phone. Please contact U.S. Cellular for the availability of these services.

START easyedgeSM

- 1 To launch “**easyedgeSM**” from the standby mode, press [MENU] 4 GH 1 123 or press .
- 2 When two or more icons appear on the screen, select an application with Navigation Key.
- 3 To start the application, press .
- 4 To end the application, press . The phone will return to the standby mode.

DOWNLOADING APPLICATIONS

- 1 Press [MENU] 4 GH 1 123 or press .
- 2 Select “**easyedgeSM**” with Navigation Key, then press .
- 3 Select “Start” with Navigation Key, then press .
- 4 The phone will access US Cellular’s server. Follow the prompt to download applications.

- To select an option, press then press .
- When a prompt appears, press to proceed or to cancel.

DOWNLOADING RINGTONES/WALLPAPERS

Before downloading melody ringers and wallpapers, you need to download the appropriate **easyedgeSM** application. Please contact U.S. Cellular for details.

easyedgeSM**APPLYING RINGTONES/WALLPAPERS**

Downloaded ringtones apply to several functions including the incoming call alert, new text message alert, alarm clock and scheduler alarm.

Downloaded wallpapers apply to the standby mode.

CHECKING DATA FOLDER MEMORY

Downloaded ringtones, wallpapers and applications are saved to the data folder in your phone.

- 1 Press [MENU] or press .
- 2 Select “easyedgeSM” with Navigation Key, then press .
- 3 Select “Options” with Navigation Key, then press .
- 4 Select “Information” with Navigation Key, then press . The memory status will be displayed.
- 5 To exit, press .

ERASING AN APPLICATION

- 1 Press [MENU] or press .
- 2 Select “easyedgeSM” with Navigation Key, then press .
- 3 Select “Options” with Navigation Key, then press .
- 4 Select the application to be erased with Navigation Key, then press .
- 5 To remove it, select “Remove”, then press .

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MEDIA GALLERY

IMAGES**GRAPHICS**

This menu displays the list of downloaded still images.

- 1 Press [MENU] .
 - Press [MENU] to select 1.Erase, 2.Erase All, 3.Change Title.
- 2 Scroll through the downloaded images to display the picture you want to send, then press [SEND].
- 3 To write your picture message, see “New Photo Msg” on page 102.
- 4 4.1 To send the photo message, press [MENU], select “Send”, then press [OK].
 - 4.2 To save the photo message, press [MENU], select “Save to Outbox”, then press [OK].

ANIMATIONS

This menu displays the list of downloaded or saved images.

- 1 Press [MENU] .
 - Press [MENU] to select 1.Erase, 2.Erase All, 3.Change Title.
- 2 Scroll through the downloaded images to display the picture you want to send, then press [SEND].
- 3 To write your picture message, see “New Photo Msg” on page 102.
- 4 4.1 To send the photo message, press [MENU], select “Send”, then press [OK].
 - 4.2 To save the photo message, press [MENU], select “Save to Outbox”, then press [OK].

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MEDIA GALLERY

PHOTO

This menu displays the list of photos taken with the built-in camera.

- 1 Press [MENU] .
 - Press [MENU] to select 1.Erase, 2.Erase All, 3.Change Title.
- 2 Scroll through the captured pictures to display the picture you want to send, then press [SEND].
- 3 To write your picture message, see “New Photo Msg” on page 102.
- 4
 - 4.1 To send the photo message, press [MENU], select “Send”, then press [OK].
 - 4.2 To save the photo message, press [MENU], select “Save to Outbox”, then press [OK].

TONES

This menu shows the list of downloaded ringtones and saved voice memos.

- 1 Press [MENU] .
- 2 Scroll to the saved voice memo or downloaded ringtone you want to send then press [SEND].
- 3 To write your picture message, see “New Photo Msg” on page 102.
- 4
 - 4.1 To send the photo message, press [MENU], select “Send”, then press [OK].
 - 4.2 To save the photo message, press [MENU], select “Save to Outbox”, then press [OK].

SETTINGS

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

SOUNDS

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

RINGER TYPE

To select a ringer type for incoming calls:

RINGER

- 1 Press [MENU] .
- 2 Select your desired ringer type.
 - Left or Right key : Select “Ring Tones”, “Music Bells” or “Downloads”.
 - Up or Down key : Select “Ringer”.
- 3 Select one of the available ring types.
To confirm, press [SELECT].

MESSAGES

To select a ringer type for receiving messages:

- 1 Press [MENU] .
- 2 Press the Navigation Key up or down to select “Tone 1, 2, 3, 4, 5”.
- 3 To confirm, press [SELECT].

VOICE MAIL

To select a ringer type for receiving voice mail:

- 1 Press [MENU] .
- 2 Press the Navigation Key up or down to select “Tone 1, 2, 3, 4, 5”.
- 3 To confirm, press [SELECT].

SETTINGS

VOLUME

Controls the Ringer, Key Tone, Voice Call and Speakerphone volume.

RINGER

Controls the Ringer volume and alerts you to incoming calls in the modes listed in the gray box below.

- 1 Press [MENU] .
- 2 Select one of the following options by pressing the Navigation Key to the right.
 - Silent : Mute the ringer, press (Min).
 - Ringer Off
 - Vibrate On
 - Ringer Mode : Up & Down (Level 1~5)
 - High & Vib : The ringer sounds after vibration, press (Max).
- 3 To confirm, press [OK].

KEY TONE

To adjust key pad tone:

- 1 Press [MENU] .
- 2 Adjust the key pad tone with the Navigation Key.
 - Off (Min-)
 - Level 1 - 5 (level 5, Max-)
- 3 To activate, press [OK].

VOICE CALL

To adjust earpiece volume (Lets you adjust the ringer volume in standby mode with side volume key):

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

SETTINGS

SPEAKERPHONE

To adjust speakerphone volume:

- 1 Press [MENU] .
- 2 Adjusts the speakerphone volume using the Navigation Key.
 - Level 1 - 5 (Min- , Max-)
- 3 To activate, press [OK].

ALERT

When selected, this setting alerts you to the following handset changes:

MINUTE

Sounds an alert every minute during a call.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the Navigation Key, then press [OK] to activate 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, then press [OK] to activate it.

CONNECT

Notifies you that a call has been successfully placed.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the Navigation Key, then press [OK] to activate it.

SETTINGS

FADE

Sounds an alert when entering an area where calls cannot be made due to weak signal strength.

- 1 Press [MENU] .
- 2 Select “Off” or “On” with the Navigation Key, then press [OK] to activate 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, then press [OK] to activate 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, then press [OK] to activate it.

SETTINGS

ETIQUETTE

To place the phone in Etiquette Mode so all phone sounds are muted:

- 1 Press [MENU] .
- 2 Select “On” or “Off” with the Navigation Key, then press [OK] to activate it.



Shortcut:

To place phone in Etiquette Mode from standby mode, press and hold .






SETTINGS

DISPLAY

Allows you to customize the display.

MENU STYLE







To select a display menu style:

- 1 Press  [MENU]   .
- 2 Select "Fold", "Grid" or "List" with the Navigation Key, then press  [OK] to activate it.







GRAPHICS

To select an LCD display:

WALLPAPER







- 1 Press  [MENU]    .
- 2 Select Default to choose a pre-installed display or scroll through Downloads or Photo # to choose a display you have downloaded to your phone.
- 3 To activate it, press  [SELECT].

POWER ON







- 1 Press  [MENU]    .
- 2 Select "U.S. Cellular" with the Navigation Key.
- 3 To activate it, press  [SELECT].

SETTINGS







POWER OFF

- 1 Press  [MENU]    .
- 2 Select "U.S. Cellular" with the Navigation Key.
- 3 To activate it, press  [SELECT].

RECEIVED

- 1 Press  [MENU]    .
- 2 Select "Default" with the Navigation Key.
- 3 To activate it, press  [SELECT].

DIALED

- 1 Press  [MENU]    .
- 2 Select "Default" with the Navigation Key.
- 3 To activate it, press  [SELECT].

SETTINGS

SCREEN SAVER

Sets the time of Screen Saver and selects the images to be displayed on the LCD.

1 Press [MENU] .

2 Select "Time Setting" or "Screen Saver" with the Navigation Key.

- Time Setting : Off, 5 Secs, 10 Secs, 20 Secs, 30 Secs.
- Screen Saver : Select picture image.(Photo/Multimedia/Images).
By pressing , the user can choose from the following:
 1. **Erase:** To erase a picture saved in the current album.
 2. **Erase All:** To erase all pictures saved in the current album.
 3. **Change Title:** To edit the title of a picture file.

3 To activate, press [SELECT].

SUB SCREEN

1 Press [MENU] .

2 Select "Digital" or "Analog" with the Navigation Key.

3 To activate, press [OK].

SETTINGS

GREETING MESSAGE

To input a personal greeting:

1 Press [MENU] .

2 The message field will be highlighted. Press the Navigation Key left or right to choose between On and Off. Press the Navigation Key down to move to the Font field, then left or right to choose a font. Press the Navigation Key down again to move to the BG field, then left or right to choose a background color. Press the Navigation Key down again to move to the Color field, then left or right to choose a color. Press the Navigation Key down to enter greeting message.

- Message : On/Off.
- Font : White, Blue, Dark blue, Magenta, Gray, Black.
- Bg : Transparent, White, Blue, Yellow, Gray, Black.
- Entry Message : Enter message (Default-USC).

3 To save, press [SAVE].

CONTRAST

To adjust the display contrast:

MAIN LCD/SUB LCD

1 Press [MENU] .

2 Select "Main LCD" or "Sub LCD", then select one of the following options 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 key pad for easy viewing in dark places.

LCD/KEY PAD

- 1 Press [MENU] .
- 2 Select "LCD" or "Key Pad", then select one of the following options with the Navigation Key.
 - LCD : 5 Secs/15 Secs/30 Secs/60 Secs/Always On.
 - Key Pad : 5 Secs/15 Secs/30 Secs/60 Secs/Always On/Always Off.
- 3 To save, press [OK].

SETTINGS

DATA SVC.

CONNECTION

Choose the connection mode for the usage of your phone.

- 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 To activate, press [OK].

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

SETTINGS

SECURITY

Prevents unauthorized use of your phone. The following settings can be restricted:

PHONE LOCK

Prevents the phone from being used without entering the password first.

- 1 Press [MENU] , then enter your password.



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

- 2 Press , then select “Lock Now”, “Lock On Power Up” or “Unlock”.

- Lock Now : Lock the phone now.
- Lock On Power Up : Not locked, but it is automatically locked when power is recycled.
- Unlock : Do not lock the phone.

- 3 To activate, press [OK].

RESTRICT

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

DIALED

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

- 1 Press [MENU] , then enter your password.

- 2 Press , then select “Allow” or “Restrict” with the Navigation Key.

- Allow : Allows a dialed call.
- Restrict : Restricts a dialed call.

- 3 To activate, press [OK].

SETTINGS

RECENT CALLS

Blocks access to Recent Call List.

- 1 Press [MENU] , then enter your password.

- 2 Press , then select “Allow” or “Restrict” with the Navigation Key.

- Allow : Allows a recent call.
- Restrict : Restricts a recent call.

- 3 To activate, press [OK].

PHONE BOOK

Blocks access to and protects data in your phone book.

- 1 Press [MENU] , then enter your password.

- 2 Press , then select “Allow” or “Restrict” with the Navigation Key.

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

- 3 To activate, press [OK].

CAMERA

Restricts access to camera mode.

- 1 Press [MENU] , then enter your password.

- 2 Press , then select “Allow” or “Restrict” with the Navigation Key.

- Allow : Allows access to the camera.
- Restrict : Restricts access to the camera.

- 3 To activate, press [OK].

SETTINGS

DATA CALL

Restricts a data call from being placed.

- 1 Press [MENU] , then enter your password.
- 2 Press , then select "Allow" or "Restrict" with the Navigation Key.
 - Allow : Allows a data call.
 - Restrict : Restricts a data call.
- 3 To activate, press [OK].

900#S

Restricts calling 900 dial service numbers.

- 1 Press [MENU] , then enter your password.
- 2 Press , then select "Allow" or "Restrict" with the Navigation Key.
 - Allow : Allows calls to a 900-dial service.
 - Restrict : Restricts calls to a 900-dial service.
- 3 To activate, press [OK].

LONG DISTANCE

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

- 1 Press [MENU] , then enter your password.
- 2 Press , then select "Allow" or "Restrict" with the Navigation Key.
 - Allow : Allows a long distance call.
 - Restrict : Restricts a long distance call.
- 3 To activate, press [OK].

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SETTINGS

CHANGE CODE

Changes your 4-digit password.

- 1 Press [MENU] , then enter your password.
- 2 Press .
- 3 Enter a new password, then press [OK].
- 4 Enter the new password again, then press [OK].

SPECIAL #'S

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

- 1 Press [MENU] , then enter your password.
- 2 Press , then select a location with the Navigation Key.
- 3 Press [SET] and input a phone number, press [OK] again to save.

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SETTINGS

ERASE ALL

Clears all phone book, downloads, and photo gallery entries from your phone.

- 1 Press [MENU] , then enter your password.
- 2 Press .
- 3 Press [CHECK] to check "Phone Book", "Downloads" or "Photo Gallery", then press [OK] to erase all the items in those categories.

RESET PHONE

Resets phone to default settings.

- 1 Press [MENU] , then enter your password.
- 2 Press .
- 3 Select "Yes" or "No" with the Navigation Key. Press [OK].

When you select "Yes" and [OK], you will see "Reset Phone ! This will reset to default setting" on the display.

- 4 To reset the phone, press [OK].

SETTINGS

OTHERS

ANSWER OPTIONS

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 activate, press [OK].

ACTIVE FLIP

To select active flip answer mode:

- 1 Press [MENU] .
- 2 Select "On" or "Off" with the Navigation Key.

- 3 To activate, 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 ANSWER

Automatically answers a call after a preset amount of time.
Auto Answer only works when the phone is open.

1 Press [MENU] .

2 Select one of the following with the Navigation Key.

● Off/5 Secs/10 Secs/18 Secs.



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

3 To activate, press [OK].

AUTO RETRY

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

1 Press [MENU] .

2 Retry time to field is shown. Press the Navigation Key left or right to choose the amount of time.
(Off, 3 Secs, 5 Secs, 7 Secs, 10 Secs.)

3 When a time is chosen for retry time, the repeat field is shown. Press the Navigation Key down to highlight the repeat field. Press the Navigation Key left or right to choose the number of repeats. (1 Time, 3 Times, 5 Times).

4 To activate, press [OK].

SETTINGS

LANGUAGE

Selects the language in which letters are displayed on screen.

1 Press [MENU] .

2 Select either “English” or “Spanish” with the Navigation Key.

3 To activate, press [OK].

VOICE PRIVACY

Enhances voice privacy to avoid tapping during a call.

1 Press [MENU] .

2 Select “Standard” or “Enhanced” with the Navigation Key.

3 To activate, press [OK].

● “Enhanced” : Makes it more difficult to wire tap.

SETTINGS

TTY MODE

Your phone is able to operate with a TTY (Teletypewriter) device in digital mode. This feature is system dependent and may not be available in all areas.

- 1 Press [MENU] .
- 2 Select one of the following options (TTY Off / TTY+TALK / TTY+HEAR / TTY Full) with the Navigation Key, then press [OK].

LOCATION

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

- 1 Press [MENU] .
- 2 Select "911 Only" or "Location On" 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.
- 3 To activate, press [OK].

SETTINGS

SYSTEM

SET MODE

Selects the Preferred System.

- 1 Press [MENU] .
- 2 Select one of the following options (Automatic B / Automatic A / Home Only) with the Navigation Key, then press [OK].

- Automatic B : Scans the radio channels based on the Automatic B setting.
- Automatic A : Scans the radio channels based on the Automatic A setting.
- Home Only : Only within your home area or home affiliated area.

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 [MENU] .
- 2 Select "Yes" or "No", then press [OK] to activate it.

SETTINGS

CHANGE NAM

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

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

PRL ID

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

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

SETTINGS

PHONE INFO

Displays the version of your phone:

S/W VERSION

- 1 Press [MENU] .
- 2 The software version appears.
- 3 Press [OK].

H/W VERSION

- 1 Press [MENU] .
- 2 The hardware version appears.
- 3 Press [OK].

easyedgeSM VERSION

- 1 Press [MENU] .
- 2 The “easyedgeSM” software version appears.
- 3 Press [OK].

UTILITIES

SCHEDULE

Sets a plan and reminds you of that plan.

ADD PLAN

- 1 Press [MENU] or .
- 2 Use the Navigation Key to choose a date in the calendar, then press [OK].
- 3 The date field is highlighted. Press the Navigation Key down to set the alarm options.

DATE SETTING

Use the keypad to change or enter the date then press [OK].

TIME SETTING

Use the keypad to set a time and when highlighted, press to select "AM" or "PM", then press [OK].

PLAN SETTING

Use the keypad to input a plan message then press [OK].

SETTING

Select an alert time interval option (On Time, 10 Min Before, 30 Min Before, 1 Hour Before, No Alarm) by pressing the Navigation Key left or right.

RINGER SETTING

To set a Ringer, press [MENU], then select "Default" or "Change" using the Navigation Key. To save it press [SELECT].

- Default : To set default ringer type.
- Change : Choose a ringer type from the list.

UTILITIES

- 4 Press [SAVE] to save it or [CLR] to return to the calendar.
- 5 The date of the plan will be marked on your calendar.

VIEW EVENT LIST

- 1 To view the Event List, press [MENU] or .
- 2 Move the Navigation Key to choose an event, then press [OK] or [ERASE]. Press [MENU], then select "Erase All" using the Navigation Key. "Erase all plans?" will be displayed. Press [OK] to delete.

UTILITIES

ALARM

You can set up to 3 alarms.

- 1 To display alarm entries, press [MENU] [8] [2] or [2] [2].
- 2 Select one of the entries using the Navigation Key. To set a new alarm, choose item 1, 2 or 3. To edit an existing alarm, select that alarm. Press [OK].
- 3 The setting field will be highlighted. Press the Navigation Key down to select alarm options.

SETTING

Use the Navigation Key to select a setting for the alarm (Once, Daily, Weekly, Monthly, Off).

DATE SETTING

Use the keypad to change or enter the date for the alarm then press [OK].

If Weekly is chosen for the setting, date field becomes a day of the week.

- Once: Select the single date of the alarm.
- Daily: Select alarm for same time each day.
- Weekly: Select "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday".
- Monthly: Select day 1 through 31.
- Off

TIME SETTING

Use the keypad to set a time for the event and the to select "AM" or "PM" then press [OK].

UTILITIES

SNOOZE SETTING

Use the Navigation Key to select a Snooze setting (Off, 1 time after 5 min, 1 time after 10 min, 3 times by 5 min).

RINGER SETTING

To set a "Ringer" press [MENU], then select "Default" or "Change" using the Navigation Key. To save it, press [SELECT].

- Default : To set default ringer type.
- Change : To select a custom ringer from the list.

PLAN SETTING

Using the keypad, input an alarm message then press [OK].

- 4 To save an alarm setting press [SAVE].

UTILITIES

MEMO PAD

Your phone includes an internal memo pad that can be used to compose and store reminders and notes.

ADD MEMO

To compose a memo (there is an 80-letter limit):

- 1 Press [MENU] .
- 2 Input a new text memo.
(Please refer to page 31 for more details on entering letters, numbers & symbols.)
- 3 To save memo, press [OK].

VIEW MEMO

To view a saved memo:

- 1
 - 1.1. Press [MENU] .
 - 1.2. To erase a memo, press [ERASE].
 - 1.3. To add a new memo, press [MENU] "New Memo".
 - 1.4. To erase all memos, press [MENU] "Erase All".
- 2 The list of all memos, in saved order, is displayed. Select a memo, then press [OK].
- 3 The selected memo will appear. To edit it, press [MENU], select "Edit" and input a new text memo, then press [OK] to save it.

SETTINGS

To select memo pad background image:

- 1 Press [MENU] .
- 2 Select (Paper/Pattern/Sea/Sky/Flower) by pressing Navigation Key left or right, then press [OK].

UTILITIES

CALCULATOR

To access the calculator:

- 1 Press [MENU] .

- 2 Follow the instructions below to calculate $8*6 \div 4 - 2.5$

Press 8.
Press the Navigation Key to the right.
Press 6.
Press the Navigation Key to the left.
Press 4.
Press the Navigation Key down.
Press 2 then press to input (.).
Press 5.
Then press and you will see the answer.



- 3 To reset, press [RESET].

UTILITIES

WORLD CLOCK

To display the time and date in pre-programmed cities:

- 1 Press [MENU] [8] [5].
- 2 Select a city with the Navigation Key.
- 3 The world map appears with the city, its date and time.

- Use the Navigation Key to select another city.



As the daylight saving time is not applied, it may be different from the actual time during DST.

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

UTILITIES

STOP WATCH

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

- 1 Press [MENU] [8] [6].
- 2 To measure a time period.
 1. To start the stop watch, press [START].
 2. To pause it, press [STOP].
 3. To resume it, press [OK].
To reset it, press [RESET].
- 3 To time up to six events at once:
 1. To start, press [START].
 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 the stop watch, press [STOP].
 6. To review the results, press [VIEW].
 7. To return to the stop watch, press [OK].
 8. To reset it, press [RESET].

CAMERA

TAKE A PHOTO

Taking pictures with your phone's built-in camera is as simple as choosing a subject, pointing the lens, and pressing a button. You can activate the Camera Mode and take pictures when the phone is open.

TAKING A PICTURE THROUGH THE MENU

- 1 Press [MENU] or press .
- 2 Point the camera lens at your subject.
You can check the picture framing through the main display screen.
- 3 Press [OK], or the side camera button to take the picture.
- 4 To save the picture, press [SAVE] then input a picture title, then press [OK]. To go back to idle mode without saving the picture, press . To send the picture to someone, press [OK].

- You cannot place or receive calls while in Camera Mode. All incoming voice calls will be forwarded to voicemail.

TAKING A PICTURE IN IDLE MODE

- 1 Press the Side Camera button or press and hold to activate Camera Mode.
- 2 Point the camera lens at your subject.
You can check the picture framing through the main display screen.
- 3 Press the side camera button to take the picture.
- 4 To save the picture, press [SAVE] then input a picture title, then press [OK]. To go back to idle mode without saving the picture, press . To send the picture to someone, press [OK].

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CAMERA

CAMERA MODE OPTIONS

When the phone is open and in Camera Mode, several user options are available.

GALLERY

Press [GALLERY] to enter Review Mode. From there you can view the captured pictures, view a running count of stored pictures and more.

RESOLUTION

Press the Navigation Key up or down to adjust the picture size from High (640x480 pixels) to Med (320x240 pixels) to Low (160x120 pixels). The current picture size appears at the top left side of the display screen.

ZOOM

Press the Navigation Key left or right to change the magnification. (Zoom to 1x, 2x or 4x magnification in Low Resolution and 1X and 2X in Medium Resolution.)

UNDER [MENU]**SUB LCD**

The sub LCD will show a representation of the picture to be taken. Use the sub LCD to help frame yourself for a self portrait.

FLASH

To activate the flash function. (Off / On this shot / Always On)

SELF TIMER

To activate the camera's timer function. (Off / 5 Secs / 10 Secs)

ADD FRAMES

Press the Navigation Key left or right to select your favorite fun picture frame to decorate your picture. (Off/Angel Heart/Birthday/Bohemian/Bubble Bath/Celebration/Circular Eyes/Coffee/Cupid/Enamored/Enlargement/Female/Flower Frame/Flower Mirror/Frog/Funny Lips/Gentleman/Gift/Ice Cream/Koala/Love Frame/Love Heart/Love Tree/Magic Santa Clause/Male/My Christmas/Noon Window/Postage Stamp/Princess Frame/Red Man/Rose Grove/Santa Clause/Seashore/Sexy Lips/Sexy Woman/Sunflower/Sunglasses/Tree Frame/White Christmas/White Window/Winter Frame)

IMAGE CONTROLS

To select an option from the following. (Brightness / Image Effect / Contrast / Quality)

SHUTTER SOUND

To select a shutter sound. (Off / Shutter 1 / Shutter 2 / Shutter 3 / Say "Cheese")

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CAMERA

PHOTO GALLERY

Your phone enters Review Mode after taking a picture.

- 1 Press [MENU] or .
- 2 Press [OK] to select a picture.

- In Review Mode you can view all the pictures you have taken, store selected images in your phone, send pictures to the Online Album, delete images and access additional picture options.
- Press [MENU] to display the following options :
 1. **Thumbnail** : To switch the display from full-screen to thumbnail view.
 2. **Edit Title** : Edit the picture's title.
 3. **Send Photo** : Upload the picture to a message.
 4. **Assign Pix** : Assigns the selected photo to display for specific tasks (Wallpaper/Screen Saver/Pix Caller ID/Incoming Call).
 5. **Erase** : Erase the current picture from your phone.
 6. **View List** : Displays all pictures.
 7. **Photo Info** : Displays information on the selected picture, such as title, date/time, size, etc.
- Press [CAM] to return to Camera mode to take another picture.

CAMERA

PHOTO MESSAGE

Once you've taken a picture, you can use the messaging capabilities of your phone to instantly share it with family and friends. To send a picture to a recipient's email address or to their wireless phone:

- 1 Press [MENU] or .
- 2 Press for "New Photo" or for a "Saved Photo". If you are looking for a saved photo, scroll through the captured pictures to select the picture you want to send.
- 3 Highlight the picture, then press [OK].
- 4 Under "Send To", enter the email address or mobile phone number, then press [OK].
- 5 Under "Message", press . The picture will come up with the flashing cursor underneath. Enter the message, then press [OK]. Press [MENU] to 1. Voice Record, 2. Insert Q.Text, 3. Delete Photo, 4. Insert Sound, 5. Insert Slide or 6. Slide Duration.
- 6 Under "Subject", enter a subject line for the message. Press [OK].
- 7 If you want to send the picture to any additional recipients, enter their information under "CC" or "BCC". Press [MENU] to 1. Find, 2. Save or 3. Msg. Group.

CAMERA

- 8** To send the picture, press [MENU] . Press [MENU] to 1. Send, 2. Preview, 3. Save to Outbox, 4. Priority or 5. Expiration.

Please refer to page 102 for more details on "New Photo Msg".

HELP

- 1** Press [MENU] or .

- Use up/down keys to change picture size, left/right keys to change zoom and Side up/down keys control rotation on preview mode. Camera menu provides more settings:
 1. SUB LCD: Enable previewing on external LCD.
 2. FLASH: Provides just enough light to allow pictures to be taken.
 3. SELF TIMER: Set timer to take a self portrait.
 4. ADD FRAMES: Choose from 40 different frames to make picture taking fun.
 5. IMAGE CONTROLS
 - 5.1 BRIGHTNESS
 - 5.2 IMAGE EFFECT
 - 5.3 CONTRAST
 - 5.4 QUALITY
 6. SHUTTER SOUND: Select a sound to use for shutter.

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 TOOLS MENU
- VOICE RECOGNITION MODE

VOICE TOOLS MENU

VOICE MEMO

Voice Memo allows you to record a reminder message that can be up to 60 seconds. To record a memo:

- 1 To start Tools menu, press [MENU] .
- 2 To enter a voice memo, press .
- 3
 - 1.1. To record a voice memo, press . Instructions will be displayed and you will hear "Please record at the tone."
 - 1.2. To stop recording a memo, press [STOP] or .
 - 1.3. Press [MENU] after recording a voice memo to "1. Re-record" or "2. Review".
 - 1.4. Press [SAVE] to input a "Voice Memo" title, then press [OK]. (See page 31 for more information on entering letters, numbers and symbols.)
 - 1.5. Press [SEND] to access the "New Photo Msg" see "New Photo Msg" on page 102.
2. To play voice memo, press . Select the message you want to play then press [PLAY] or press [MENU] to
 1. Edit Title or 2. Send. Press [ERASE] to erase the memo.
3. To play the voice memo using the speaker phone, press . Select the message you want to play then press [PLAY] or press [MENU] to
 1. Edit Title or 2. Send. Press [ERASE] to erase the memo.
4. To erase all voice memos, press . "Erase all voice memos?" will be displayed. Press [OK] to erase all voice memos.

VOICE TOOLS MENU

VOICE DIAL

Voice Dial allows you to record a voice tag so you can call a person in your phone book simply by saying their name. To access Voice Dial:

- 1 To start Voice Tools menu, press [MENU] .
- 2 To enter Voice Dial, press .
- 3
 - 1.1. To record a voice tag, press . The phone book list will be displayed alphabetically. Select a name, then press [OK]. Instructions will be displayed and you will hear "Name Please".
 - 1.2. Say the name for the voice tag and repeat the name when prompted. You will hear "[Name] Added".
2. To play a voice tag, press . Highlight the name you want to play then press [PLAY] or press [ERASE].
3. To play a voice tag using the speaker phone, press . Highlight the name you want to play then press [PLAY] or press [ERASE].
4. To erase all voice tags, press . "Removing all voice tags Proceed?" will be displayed. To erase all voice tags, press [OK].

VOICE TOOLS MENU

TRAIN WORDS

Train allows you to use Control words to make a call without using the keypad.

YES

Use to train or untrain the Voice Recognition with the control word, "Yes".

- 1 Press [MENU] .
- 2 "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word yes".
- 3 Say "Yes". You will hear "Again". Say "Yes" again. You will hear "Training word successful".

NO

Use to train or untrain the Voice Recognition with the control word, "No".

- 1 Press [MENU] .
- 2 "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word no".
- 3 Say "No". You will hear "Again". Say "No" again. You will hear "Training word successful".

VOICE TOOLS MENU

WAKE-UP

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

- 1 Press [MENU] .
- 2 "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word Wake-Up".
- 3 Say "Wake-Up". You will hear "Again". Say "Wake-Up" again. You will hear "Training word successful".

UNDO TRAIN ALL

Undo Train All erases all "trained" words.

- 1 Press [MENU] .
- 2 "Undo voice recognition for all procedures?" will be displayed. To undo all trained words, press [OK].

VOICE TOOLS MENU

VOICE SETTING

SET ACTIVE

Allows the user to activate or deactivate voice dial service.

- 1 Press [MENU] .
- 2 Select "Active Flip" or "Send Key" by pressing the Navigation Key left or right.
- 3 To activate, press [OK].

HFK MODE

While using the Hands Free Kit, activates or deactivates the voice recognition function.

- 1 Press [MENU] .
- 2 Scroll to HFK Mode. Select "On" or "Off" by pressing the Navigation Key left or right.
- 3 To activate, press [OK].

VOICE RECOGNITION MODE

Voice Recognition (VR) enables you to place calls using your voice and to record voice memos. Only phone numbers with saved voice tags can be called in VR mode.

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

NOTE If there are no recorded voice tags saved, "No entries recorded" will be displayed.

- 2 "Please say the name after the prompt tone" will be displayed and you will hear "Name please".



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 be displayed and you will hear "Calling (name)".

MEMO

Chapter 6

VOICE MAIL, TEXT AND PHOTO MESSAGE

This chapter addresses Voice Mail, Text and Photo Messaging functions including:

- WHEN A NEW MESSAGE ARRIVES
- VOICE MAIL
- NEW TEXT MSG
- NEW PHOTO MSG
- INBOX
- OUTBOX
- SAVED
- QUICK TEXT
- 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 [V].

- 1 To access your voice mail, press [MENU] [3 DEF] [3 DEF] or [3 DEF].

NEW TEXT MSG

To send a new message:

- 1 Press [MENU] [3 DEF] [1 DEF] or [1 DEF].
- 2 Under "Send To", input the phone number, then press [OK] [OK].
 - By pressing [MENU], you can choose from the following:
 1. **Find:** Search for a phone number stored in the phone book.
 2. **Save:** Stores the phone number the message was sent to.
 3. **Msg. Group:** Select all the phone numbers in a group.

- 3 Under "Message", input a new text message, then press [OK] [OK].
(Please refer to page 31 for more details on entering letters, numbers and symbols.)
 - By pressing [MENU], in the message input screen you can choose from the following:
 1. **Insert Quick Text:** Inserts canned text into a Text Msg.
 2. **Insert Sound:** Inserts sound in Text Msg.
 3. **Insert Picture:** Inserts picture in Text Msg.
 4. **Insert Animation:** Inserts Animation in Text Msg.
 5. **Save to Quick Text:** Saves the written sentences into Quick Text.

- 4 The default call back number is automatically included into the Default CB# field. You can scroll to the number and edit it or simply press [EDIT].
- 5 Press the Navigation Key down for more fields. Under "Priority", select "Normal" or "Urgent".
- 6 Under "Insert Signature", select "On" or "Off".
- 7.1. To send the text message press [MENU], select "Send", then press [OK] [OK].
- 7.2. To save the text message press [MENU], select "Save to Outbox", then press [OK] [OK].

NEW PHOTO MSG

To send a new picture message:

- 1 Press [MENU] or .
- 2 Phone goes into camera mode automatically. Take a picture, then press [OK].
(Please refer to page 86 for more details on take a photo.)
- 3 Under "Send To", input the phone number, then press [OK].
 - By pressing [MENU], the user can choose from the following:
 1. **Find:** Search for a phone number stored in the phone book.
 2. **Save:** Stores the phone number the message was sent to.
 3. **Msg. Group:** Allows you to select all the phone numbers in a group.
 4. **Online Album:** To send Photo by using online Address Book.
- 4 Under "Message", input a new text message, then press [OK].
 - By pressing [MENU], the user can choose from the following:
 1. **Take Photo:** To take a new Photo.
 2. **Voice Record:** To record a voice memo.
 3. **Insert Q.Text:** To insert canned text into message
 4. **Insert/Delete Photo:** To insert/delete a picture from your photo gallery.
 5. **Insert/Delete Sound:** To Insert/delete a sound in Photo Msg.
 6. **Insert/Delete Slide:** To insert/delete a picture in Photo Msg.
 7. **Slide Duration:** To select a slide duration time.
- 5 Under "Subject", input a message subject, then press [OK].
(Please refer to page 31 for more details on entering letters, numbers and symbols.)

NEW PHOTO MSG

- 6 To send a message to another person, select the "CC" or "BCC" and input the phone numbers, then press [OK].
 - By pressing [MENU], the user can choose from the following:
 1. **Find:** Search for a phone number stored in the phone book.
 2. **Save:** Stores the phone number the message was sent to.
 3. **Msg. Group:** Allows you to select all the phone numbers in a group.
- 7.1. To send the picture message, press [MENU], select "Send", then press [OK].
- 7.2. To save the picture message, press [MENU], select "Save to Outbox", then press [OK].
 - By pressing [MENU], the user can choose from the following:
 1. **Send:** To send a picture message.
 2. **Preview:** To preview a written picture message.
 3. **Send to Outbox:** To save a message to "Outbox" folder.
 4. **Priority:** To select priority "Normal" or "High".
 5. **Expiration:** To select expiration time "Off", "1 day", "2 days", "3 days", "4 days" or "5 days".

INBOX

INBOX (TEXT MESSAGE)

The Inbox manages received text messages. To access:

1 Press [MENU] or .

- : 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, then press [OK].
The message is displayed. To delete a message, press [ERASE].

3 Press [MENU].

REPLY

1 To reply to the text message, press .

2 Type your reply, then press [OK].

REPLY WITH COPY

1 To reply to a received message and include the received message into the message, press .

2 The default call back number is automatically included into the Default CB# field.
You can scroll to the number and edit it.

3 Under “Insert Signature”, select “On” or “Off”.

4 To send the text message, press [SEND].

5 To save the text message, press [MENU] select “Save to Outbox”, then press [OK].

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INBOX

FORWARD

1 To forward the text message, press .

2 Input the phone number of the person you are sending the message to, then press [OK].

3 Input any text message to go along with the forwarded message, then press [OK].

SAVE TO CONTACT

1 To save number to contacts, press .

SAVE TO SAVED

1 To save the text message to your phone, press .

SAVE TO QUICK TEXT

1 To save received text message to “Quick Text”, press .

BLOCK SENDER

1 To block all incoming messages from addresses on block list, press .

LOCK & UNLOCK

1 To lock or unlock the text message, press .

2 Select “Lock” to lock the message or “Unlock” to unlock the message, then press .

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INBOX

INBOX (PHOTO MESSAGE)

The Inbox manages received photo messages. To access:





- 1 Select a message, then press  [OK].
The message is displayed. To delete a message, press  [ERASE].
- 2 Press  [MENU].

PHOTO INFO



- 1 To show photo message information, press .

PLAY SLIDE SHOW

A slide show consists of up to 3 pictures in one message with text and/or sound.





- 1 To play all slides in a slide show from a photo message, press .
- 2 There is a 5 second interval between slides.

REPLY




- 1 To reply to the photo message, press .
- 2 Type your reply, then press  [OK].

INBOX


REPLY WITH COPY

- 1 To reply to a received message and include the received message into the message, press .
- 2 The default call back number is automatically included into the Default CB# field.
You can scroll to the number and edit it.
- 3 Under "Insert Signature", select "On" or "Off".
- 4 To send the photo message, press  [SEND].
- 5 To save the photo message, press  [MENU] select "Save to Outbox", then press  [OK].


FORWARD

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

SAVE MEDIA

- 1 To save a picture to the media gallery folder, press .

SAVE TO CONTACT

- 1 To save number to contacts, press .

INBOX

SAVE TO SAVED

- 1 To save the photo message to your phone, press **8** [TV].

SAVE TO QUICK TEXT

- 1 To save received photo message to “Quick Text”, press **9** [WYS].

LOCK & UNLOCK







- 1 To lock or unlock the photo message, press **0** [SP].
- 2 Select “Lock” to lock the message or “Unlock” to unlock the message, then press **OK** [OK].

OUTBOX

OUTBOX (TEXT MESSAGE)

Manages sent text messages or messages waiting to be sent.

- 1 Press **←** [MENU] **3** [SP] **5** [JK] or **↓** **5** [JK].

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

- 2 2.1. Select a message, then press **OK** [OK].
The text message is displayed.
2.2. To erase message, press **↵** [ERASE].
- 3 Press **←** [MENU].

RESEND

- 1 To resend a text message, press **1** [RL].

EDIT MESSAGE

- 1 To send a message to another person, press **2** [ABC].
- 2 Input a text message, then press **OK** [OK].
- 3 Input the phone number, then press **OK** [OK].

OUTBOX

SAVE TO CONTACT

- 1 To save number to contacts, press .

SAVE TO SAVED

- 1 To save the text message to your phone, press .

LOCK & UNLOCK

- 1 To lock or unlock the text message, press .
- 2 Select “Lock” to lock the message or “Unlock” to unlock the message, then press [OK].

STATE

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

OUTBOX

OUTBOX (PHOTO MESSAGE)

Manages sent photo messages or messages waiting to be sent.

- 1 1.1. Select a message, then press [OK].
The photo message is displayed.
1.2. To erase message, press [ERASE].
- 2 Press [MENU].

PHOTO INFO

- 1 To show photo message information, press .

RESEND

- 1 To resend a photo message, press .

EDIT MESSAGE

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

SAVE TO CONTACT

- 1 To save number to contacts, press .

OUTBOX

SAVE TO SAVED

- 1 To save the photo message to your phone, press .

LOCK & UNLOCK

- 1 To lock or unlock the photo message, press .
- 2 Select "Lock" to lock the message or "Unlock" to unlock the message, then press [OK].

SAVED

SAVED

Manages saved messages from the Inbox/Outbox.

- 1 Press [MENU] or .
- 2.1. Select a text message then press [OK].
The text message is displayed.
2.2. To erase message, press [ERASE].
- 3 Press [MENU].
- 4 If the text message is saved from the "Inbox" menu, following options will be displayed.
 - To select inbox menu : *Photo Info, *Play Slide Show, Reply, Reply With Copy, Forward, Save to Quick Text, *Save Media, Block Sender, Save to Contact, Lock & Unlock

If the text message is saved from the "Outbox" menu, following options will be displayed.

 - To select outbox menu : *Photo Info, Resend, Edit Message, Save to Contact, Lock & Unlock, *State
- 5 Select one by pressing [OK].



- **Photo Info* or **Play Slide Show* menu only appears when you receive a photo message.
- **Save Media* menu appears only when you receive a photo message or EMS message.
- **State* menu appears only when you receive a text message.

QUICK TEXT

QUICK TEXT

To edit the Quick Text message you have saved:

- 1 Press [MENU] [3 DEF] [7 PAGE] or [7 PAGE] [↓].
- 2 2.1. Select a message from the list.
Press [MENU].
2.2. To add a new Quick Text message, press [1 NEW] [ADD NEW]. To edit the Quick Text message you have selected, press [2 EDIT] [EDIT].
- 3 To erase the saved Quick Text message, press [ERASE].

ERASE ALL

ERASE MESSAGES

- 1 Press [MENU] [3 DEF] [8 TUV] or [MENU] [3 DEF] [8 TUV].
- 2 1. To erase all the inbox messages, press [1 IN].
 - Old Inbox : To erase all messages already read.
(However, the locked Message(s) will not be deleted).
 - Entire Inbox : To erase all messages.
2. To erase all the outbox messages, press [2 ABC].
3. To erase the saved messages, press [3 DEF].
- 3 Select "OK" or "Cancel" with [OK] or [CANCEL].

SETTINGS

Manages messaging features through various features.

AUTO SAVE

SAVE SENT MSG

- 1 Press [MENU] 3 DEF 9 WXYZ 1 23 or 9 WXYZ 1 23.
- 2 Press 1 23.
Select either “Off”, “On” or “Prompt” with the Navigation Key.
- 3 Press [OK].

PHOTO RECEIVE

- 1 Press [MENU] 3 DEF 9 WXYZ 1 23 or 9 WXYZ 1 23.
- 2 Press 2 ABC.
Select “Automatic” or “Prompt” with Navigation Key.
- 3 Press [OK].

SETTINGS

AUTO ERASE

Automatically erases inbox/outbox messages when new messages arrive.

INBOX

- 1 Press [MENU] 3 DEF 9 WXYZ 2 ABC or 9 WXYZ 2 ABC.
- 2 Press 1 23.
Select “Disable” or “Enable” with Navigation Key.
- 3 Press [OK].

OUTBOX

- 1 Press [MENU] 3 DEF 9 WXYZ 2 ABC or 9 WXYZ 2 ABC.
- 2 Press 2 ABC.
Select “Disable” or “Enable” with Navigation Key.
- 3 Press [OK].

SETTINGS

DEFAULT CALL BACK

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

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

- You can look it up from the phone book by pressing [FIND].

ALERT

- 1 Press [MENU] or or .
- 2 Press . Select "Voice Mail", "Messages" or "Remind" with the Navigation Key.

- Voice Mail: Select "Tone 1, 2, 3, 4, 5".
- Messages: Select "Tone 1, 2, 3, 4, 5".
- Remind: Select "On" or "Off".

- 3 Press [OK].

SETTINGS

EDIT SIGNATURE

Create a signature that can be automatically inserted at the end of a message.

- 1 Press [MENU] or or .
- 2 Press . To input "Signature", put the cursor on Edit Signature, then enter Signature Edit window by using right or left direction keys.
- 3 To activate Signature function, put the cursor on Insert Signature, then select "On" by using right or left direction keys. To deactivate Signature function, select "Off".
- 4 Press [OK].

DIRECT VIEW

If the Direct View is set to on, the user will be able to view the message by pressing the read key. If the Direct View is set to off, the user can view the message by entering SMS Menu-> Inbox.

- 1 Press [MENU] or or .
- 2 Press . Select "On" or "Off" with the Navigation Key.
 - ON : Set to read msg without entering inbox in SMS menu.
 - OFF : Set to read msg after entering inbox in SMS menu.
- 3 Press [OK].

SETTINGS

ENTRY MODE

Sets an Entry Mode as a default. For example, if T9 Mode is the default, its icon will appear.

- 1 Press [MENU] or [OK].
- 2 Press .
Select “Alpha Mode” or “T9 Mode” with the Navigation Key.
- 3 Press [OK].

BLOCK OR UNBLOCK

- 1 Press [MENU] or [OK].
- 2 Press .
Select “Block”, “Unblock” or “View List of Blocked Address” with the Navigation Key.
 - BLOCK : Enter the address to block.
 - UNBLOCK : Enter the address to remove from block.
 - VIEW LIST OF BLOCKED ADDRESS : Display the blocked list on LCD.
- 3 Press [OK].

Chapter 7

SAFETY AND WARRANTY

This chapter addresses the safety guidelines and precautions to follow when operating your phone. Before operating your phone, please be aware of all the safety details.

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.

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

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.

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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 particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle's engine.

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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.



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 1.15 W/Kg and when worn on the body, as described in this user guide, is 0.393W/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-110C.

SAR INFORMATION

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website 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.

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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 pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

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.nrpb.org.uk>)

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