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Safety Information and Usage Guidelines

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 hand-held 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 (C95.1).

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

* American National Standards Institute; National Council on Radiation Protection and Measurements; International Commission on Non-Ionizing Radiation Protection

- To maintain compliance with FCC RF exposure guideline, if you wear a handset on your body use the Sharp-supplied or approved holster. If you do not use a body-worn accessory, ensure the antenna is at least one inch (2.54 centimeters) away from your body when transmitting. Use of non-Sharp accessories may violate FCC RF exposure guidelines.

Antenna Care

Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

Phone Operation

NORMAL POSITION: Hold the phone as you would any other telephone.

TIPS ON EFFICIENT OPERATION: For your phone to operate most efficiently:

- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

Driving

Check the laws and regulations on the use of wireless telephones 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.

Electronic Devices

Most modern electronic equipment is shielded from RF signals. 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 (15.24 centimeters) 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:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON;
- Should not carry the phone in a breast pocket;
- Should 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.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer.

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 health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your phone OFF in any facility where posted notices so require.

Aircraft

FCC regulations prohibit using your phone while in the air. Switch OFF your phone 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 gasoline 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 engine.

For Vehicles Equipped with an Air Bag

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

FCC Notice

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

FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Information To User

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1.** Reorient/Relocate the receiving antenna.
- 2.** Increase the separation between the equipment and receiver.
- 3.** Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4.** Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment

Batteries

Caution: All batteries can cause property damage, injury or burns if a conductive material, such as jewelry, keys or beaded chains, touches exposed terminals. The material may complete an electrical circuit and become quite hot. To protect against such unwanted current drain, exercise care in handling any charged battery, particularly when placing it inside your pocket, purse or other container with metal objects. When the battery is detached from the phone, use a cover made of non-conductive poly bag, for storing your battery, when it is not in use.

Flying

You should turn off your phone before boarding any aircraft.

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

Limiting Children's Access to Your Phone

Your phone should not be played with by children. They could hurt themselves and others, damage the phone or make calls that increase your bill.

Changes or Modifications

Any changes or modifications to your phone not expressly approved in this document could void your warranty for this equipment and void your authority to operate this equipment.

Only use approved batteries, antennas and chargers. The use of unauthorized accessories may be dangerous and will invalidate the phone warranty if said accessories cause damage to or a defect to develop in the phone.

Although your phone is quite sturdy, it is a complex piece of hardware and can be broken. Use common-sense guidelines to avoid dropping, hitting, bending or sitting on it.

Liquefied Petroleum Gas

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

Phone Care

Your phone is designed for excellent durability under normal use conditions. Protect your phone from water damage that could result from spills or excessive exposure to rain.

Never submerge your wireless phone.

Cleaning the Phone

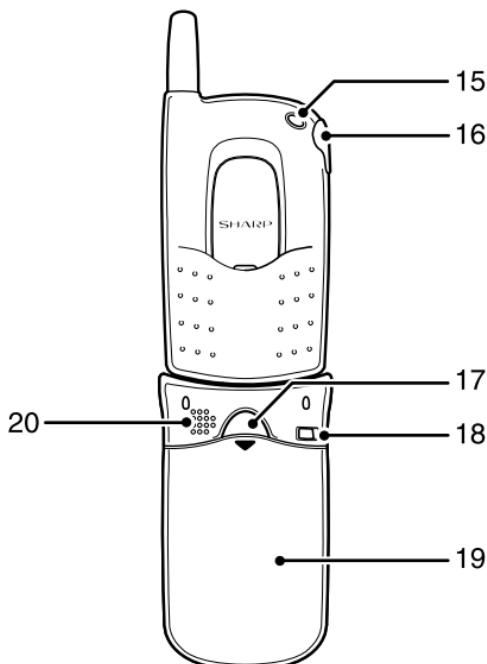
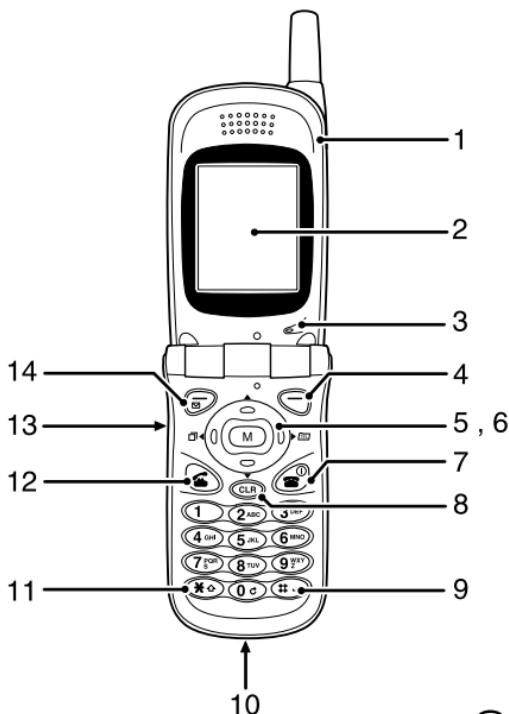
Cleaning of this product should only be done with a damp cloth. The use of chemical cleaners may harm the finish and integrity of the radio housing and is not recommended.

NOTE

Some of the network services explained in this operation manual may not be available on your network. Please contact your network operator or network service provider.

Getting Started

Part Names & Main Functions

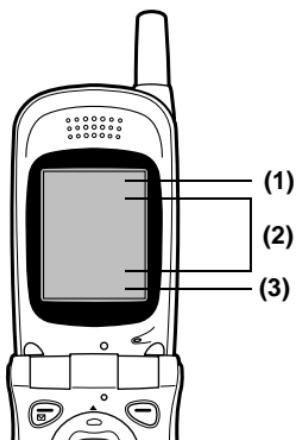


Getting Started (continued) wake-up tone



1. **Phone:** Open the phone to start.

You can end a call by closing the phone. The backlight will turn off automatically.

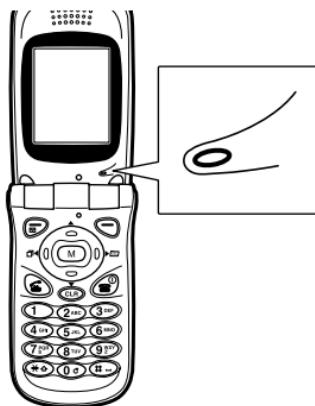


2. **Display (Color LCD) :** The display is used to check the status of the phone when it is turned on.

(1) Top area: Displays the status of the battery, signal strength, etc.

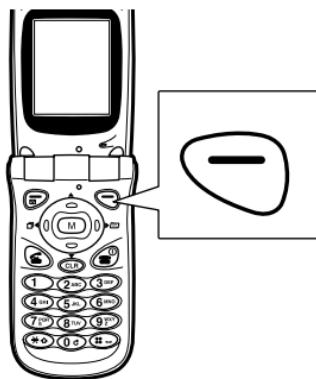
(2) Middle area: Displays the in-use information (call time, name and number of other party (if available)) and the currently set month, date, day and time.

(3) Bottom area: Displays the name of the functions to be performed by pressing the right and left soft keys and Center key. The name of the functions displayed varies depending on the menu you select.



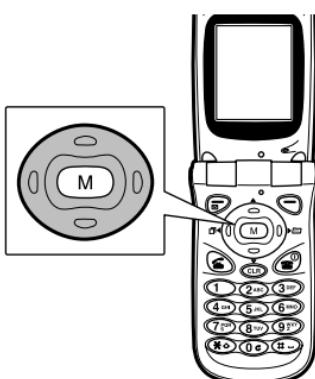
3. Microphone: Use the microphone to speak to the other party during a call.

- Press the right soft key [Mute] during a call to mute the sound from the microphone. Press the right soft key [Unmute] again to cancel the mute setting.



4. Right Soft Key:

- Press this key to execute the function displayed on the right corner of the bottom line on the display. [Browser] is displayed in Standby mode.

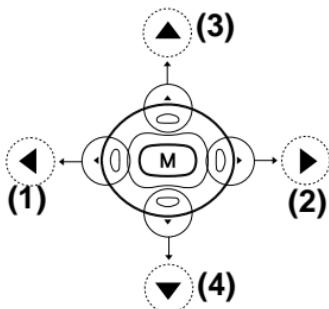


5. Navigation Keys (Arrow Keys):

- Press these keys to scroll through menu items, adjust sound volume, etc.

Note

This operation manual uses the following notations for the arrow keys.

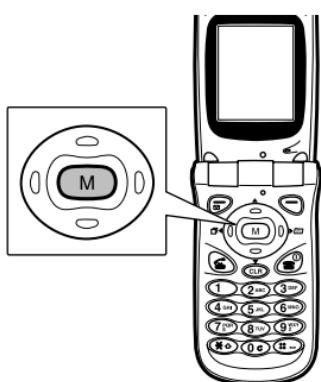


(1) Left arrow key: Press this key in Standby mode and Talk mode to view Call logs (Outgoing, Incoming, or Missed call logs).

(2) Right arrow key: Press this key in Standby mode or Talk mode to display the phone book menu.

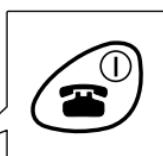
(3) (4) Up and Down arrow keys:

- Press these keys to set the ringer volume.
- Press Down key to mute the ringer during an incoming call. (The phone will automatically reject the incoming call one minute after pressing the Down Key.)
- Press and hold Up or Down arrow keys to scroll through items quickly, if necessary.



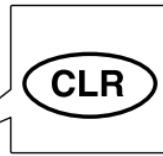
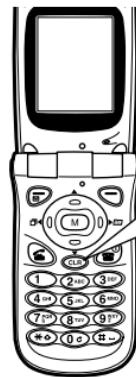
6. Center Key (M key):

- Press this key to display the menu and execute the function shown in the center of the bottom line on the display.
[M MENU] is shown in the center of the bottom line in Standby and Talk mode.



7. END/Power Key:

- Press this key to turn the power on and press and hold to turn it off.
- Press this key to end a call or to return to Standby mode, while any menu screen is displayed.



8. CLR Key:

- Press this key to backspace and delete a single space or character. Press and hold this key to delete all characters entered.
- Press this key to return to a previous screen.
- Press and hold this key to return to Standby mode while any menu screen is displayed.



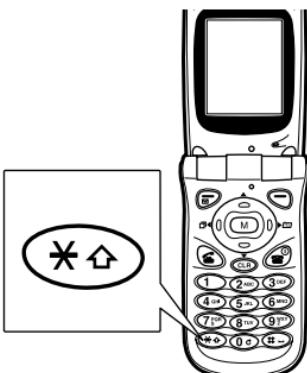
9. #/Space Key:

- Press this key to enter either a space or #.



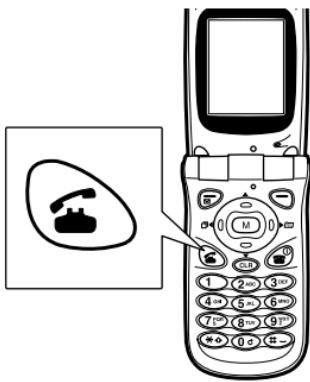
10. Accessories Connector:

This connector is used to connect the charging device (Travel charger) or PC interface cable.



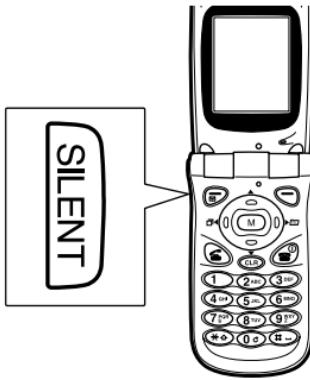
11. */Shift Key:

- Press this key to enter *.
- Press this key to shift between upper and lower case.



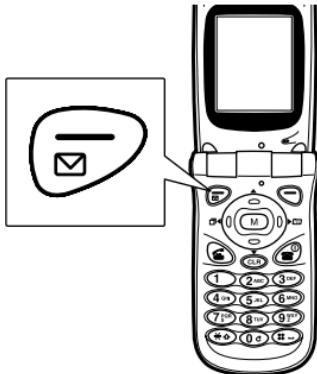
12. SEND Key:

- Press this key to answer a call.
- Press this key after entering a telephone number to place a call.
- Press this key to make a Three-way call or answer a Call Waiting call during a call in progress.
- Press this key twice in Standby mode to redial the last outgoing number.



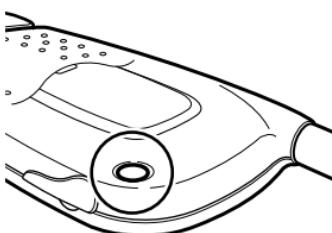
13. Silent Mode Key:

- Press and hold this key in Standby mode to mute all sounds, such as the wake-up tone, key beep, ringer tone, alert, etc.
- Press this key to answer a call (including incoming calls during a call in progress) when a commercially available hands-free headset is attached to the phone.
- Press and hold this key to end a call.



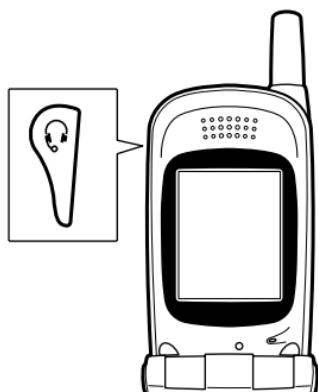
14. Left Soft Key/Message Key:

- Press the left soft key to execute the function displayed on the left of the bottom line on the display.
- The Message key is effective when [Message] is displayed on the left of the bottom line.
- Press and hold the Message key to connect to the Voicemail Center.



15. LED Indicator: This indicator flashes green to indicate an incoming call or message, while the phone is closed with the ringer tone set to off,

- The indicator stays illuminated red while charging, and goes off when charging is complete.



16. Headset Connector: By connecting the headset to this connector, you can talk hands-free. Keep the connector covered with the rubber plug when not using the headset.

17. Battery Cover Release Button:

- Press this button to remove the battery cover.
Details of attaching and removing the battery using this button are given on pages 15 and 16.

18. Wrist Strap Hole

19. Battery Cover

20. Speaker

Turning Your Phone ON and OFF

Turning ON

1. Open the phone and press .

The phone will beep and the wake-up screen will be displayed.

The phone will begin searching for a network signal.

When a signal is found, the  icon will be displayed and the phone will enter Standby mode.

Check that the following elements are displayed on the Standby screen:



- Antenna and signal strength icon: 
- Battery icon: 
- Time and date
- Banner: Welcome (default)

Now you are ready to make and receive calls.

Note

- The date and time are not set at the time of purchase. See page 76 for instructions on setting them.
- While the phone is searching for the network signal, the message "Searching for Service..." is displayed.

Turning OFF

1. Press and hold  .

The power-off screen will be displayed and the Good-bye (power-off) tone will be heard.

Note

The phone will not be turned off unless you press and hold  .

This feature prevents your phone from being turned off accidentally.

Roaming with your Tri-mode Telephone

Your phone is Tri-mode, which means you can use it to make and receive calls in many places.

- In any city where your home network provides service.
- On other CDMA networks and conventional analog cellular networks where your home network has implemented roaming agreements.

When you use your phone outside your home network, it is called roaming. If you are roaming in areas where your home network has agreements with digital CDMA or conventional analog cellular providers, you will pay the roaming rate plus long-distance charges, where they apply.

Note

In areas where your home network does not have roaming agreements, you will still be able to make (but not receive) calls using a credit card. This is called manual roaming. Consult your home network operator for more information.

Roaming Settings

For more information on roaming settings, see the corresponding pages shown below.

1. Phone's mode (P.19)
2. Roaming call guard (P.27)
3. Voice calling experience (P.28)

Displaying Your Phone Number

There are two ways to display your phone number in Standby mode:

Using the Menu

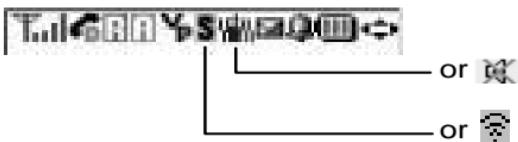
1. Press  to display the Main menu.
2. Press  to select Phone Book.
3. Press  to select My Phone #.
4. Press  to return to the Standby screen.

Using the Right Arrow Key

1. Press  to display the phone book menu.
2. Press  to select My Phone #.
3. Press  to return to the Standby screen.

Display

Top Line of Display



Depending on the phone's operating mode, the display indicators will inform you of in-use status.

Signal Strength: Indicates the signal strength when your phone is turned on. The more lines the greater the signal strength. The strength changes depending on where you are.

Service: Indicates that an analog call is in progress.

No Service: Indicates that your phone is outside the service area meaning that you can not make or receive a call. Move to an area where your phone indicates more signal strength lines.

Note

The no service indicator will always appear when you turn on your phone. As soon as service is found, the indicator disappears.

Indicates that a digital call is in progress.

Roaming: Indicates that you are outside the area of your home network.

Indicator status	Meaning
(No display)	You are in your home network service area.
Steadily ON	You are in an analog or digital roaming service area (where your home network has a roaming agreement in place.)
Flashes once every second	You are in an analog or digital coverage area not covered by your home network roaming agreement.

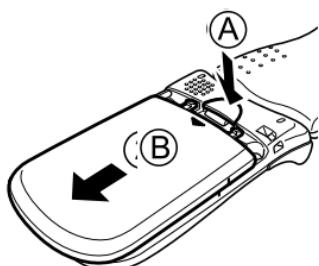
Digital Call: Indicates that the phone is set to Digital mode.

-  **Analog Call:** Indicates that the phone is set to Analog mode.
-  **Voice privacy:** Indicates that the call is being made in Voice Privacy mode.
-  Indicates that the ringer volume is set to “0”.  is displayed instead when it is set to Escalate.
-  **Vibrate:** Indicates that your phone will notify you of incoming calls, data, etc. by vibrating.
-  **Silent mode:** Indicates that the phone is in Silent mode. Press and hold the Silent mode key to turn the mode on or off.
-  **Message:** Indicates that you have received an incoming message (voicemail notification, text, or browser message). (P.94)
Press  to display the Message menu, or press and hold to call the Voicemail center.
-  **Alarm/Reminder:** Indicates that the Alarm Clock or Call Reminder option is set. (P.72, P.73)
-  **Battery Level:** Indicates the phone's current battery level. The  icon will blink during changing.(P.16)
Battery level ( : Full,  : Medium,  : Low,  : Empty)

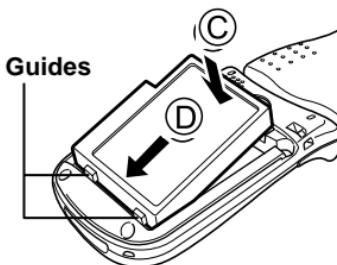
Battery

When you use your phone for the first time after installing the battery, please check the battery level on the display. If the phone detects a low battery level, your call may drop quickly.

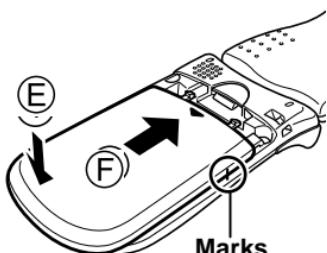
Installing the Battery



1. Push the battery cover release button **(A)** and then slide the battery cover in the direction of the arrow **(B)**.

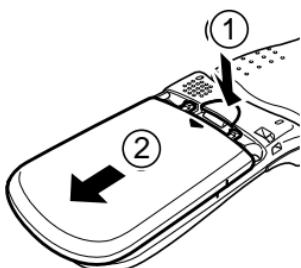


2. Hold the battery so that the metal contacts of the battery are facing down and the guides on the base of the battery slide into the slots on the base of the phone **(C)**, and then insert it **(D)**.



3. Place the battery cover so that the marks are aligned **(E)** and slide it as shown until it clicks into place **(F)**.

Removing the Battery



1. Turn off the phone.
2. Push the battery cover release button ① and then slide the battery cover to remove it ②.
3. Pull out the battery from the phone.

Note

Do not remove the battery while the phone is turned on.

Charging the Battery

Check the status of the battery indicator on the display.

When the empty icon of the battery () is displayed, your phone detects a low battery level* and alerts you that the battery is almost exhausted. When the warning message is displayed, charge the battery immediately to its full capacity.

If you want to continue using the phone, connect it to the charger.

If you leave the phone without charging it, it will automatically turn off.

* There is approximately 2 to 5-minutes talk time remaining depending on the signal strength.

Note

Be sure to charge the battery immediately to its full capacity before you use the optional Mobile Phone Manager Software or the Data/Fax communication feature.

Using the Travel Charger



Use only the chargers and adapters approved by the manufacturer. Use of any unauthorized accessories may be dangerous and will invalidate the phone warranty if the accessories cause damage or a defect to the phone.

* Charge time: approximately 2 to 3 hours.

1. Insert the travel charger's connector into the connector at the bottom of the phone.
2. Plug the charger into a wall outlet.
3. The LED indicator shows the battery level as follows:

Indicator Status

Light is red: Charging is in progress.

Turns off: Charging is completed (fully charged).

Note

- Making a call while charging the battery with the travel charger may increase the charging time.
- The first time you charge a battery which has been left unused for a long period of time, the LCD may not turn on for a couple of minutes. This is not a malfunction.

Tips on Using Your Battery and Battery Charger Effectively

To use the battery and battery charger effectively, keep the following in mind:

- Only use Sharp-approved batteries and chargers.

- Charge the battery in a temperature range of 32° F to 104° F (0°C to 40°C).
- Charge the battery if it has been left unused for a long period of time.
- Keep the metal contacts of the battery clean.
- Replace the battery if it does not seem to offer enough performance. The battery is a consumable. When the battery operates for an extremely short period of time even when the battery is fully charged, replace it with a new battery.
- Store the battery in the following temperatures, depending on the storage time:
 - For less than one month:
–4° F to 140° F (-20°C to 60°C)
 - For more than one month:
– 4°F to 113°F (-20°C to 45°C)

Precautions for Handling the Battery and Charger

- Never dispose of the battery by burning it.
- Dispose of the battery properly: Contact your local agency for information on recycling and disposal regulations.
- Do not use the battery charger in direct sunlight or in high humidity areas (such as in a bathroom).
- Do not attempt to disassemble, alter or short-circuit the battery, as burns or other accidents may occur.
- Do not allow metal objects or liquids to contact or short-circuit the battery terminals, as burns or other accidents may occur.
- Do not expose the battery to fire.
- Do not allow the battery to get wet.
If your phone gets wet, turn the power off immediately, remove the battery and consult the shop where you purchased your phone.

Phone Mode

Standby Mode

When you turn your phone on, it will start searching for the home network signal. If your phone is inside the home network area, it will enter Standby mode immediately. Press the digit keys to start dialing.

Talk Mode

Your phone enters Talk mode at the time the telephone circuit is established. While the phone is in Talk mode, you can access the in-use functions (P. 40 “In-Use menu”) by pressing **M** mode.

Power Save Mode

Your phone will enter Power Save mode automatically if your phone can not receive a signal of adequate quality for fifteen minutes. (The message will inform you that the phone is in Power Save mode.) While the phone is in Power Save mode, the battery power will be conserved.

Your phone will restart searching for the signal periodically.

Or move to a different location and press any key. Your phone will return to Standby mode and restart searching for the signal.

Voice Call

Making a Voice Call

1. Open the phone and press .

The phone beeps and the wake-up screen is displayed.

Then,  (antenna) and the signal strength level () will be displayed to indicate you are in a service area where it is possible to make a phone call.

Finally, the message “Searching for Service...” will be displayed to indicate which service network the phone is searching for.

2. Enter the phone number by pressing the digit keys.

Up to 32 digits can be entered.

3. Press  to dial.

Note

- During a call, the current talk time will be displayed.

Tip

There are other ways to make a phone call.

- 1) Using the phone book (P.86)
 - 2) Using the call logs (P.89)
 - 3) Using one-touch dialing (speed dialing) (P.21)
 - 4) Using a phone number embedded in a received message
 - 5) Redialing the last number (P.22 “Redialing a Call”)
- During a call you can adjust the voice volume.
 - You can adjust the speech volume during a call using  and . (P.45)
 - When you have made a mistake, press  to delete the last digit. Holding down  will delete the entire number.
 - Turning the Minute Alert option on reminds you of the length of the current call. (P.52)
 - The Scratch Pad feature makes it easier to enter a phone number. (P.23)

- If you dial the last four digits of a phone number stored in the phone book and press  , the matched entry will be recalled. (P.35)
- If the phone number you dialed is not stored in the phone book, the number will be kept displayed for 10 seconds. Within that time, you can store the number by pressing  [Store].

Emergency Calls (911)

1. Dial   .
2. Press  to dial

Note

- To dial an emergency number in Lock mode, see below.
- To return to Standby mode, turn the phone off and on again.

Tip

- Emergency number (911) can be dialed even if your phone is locked (P.61 “Lock Mode”) or your account is restricted.
- Your phone supports 911, #911 and *911 as an emergency number.
- “9 + 

One-Touch Dialing (Speed Dialing)

1. Press and hold any of the digit keys (0 - 8).

Note

- Details of setting one-touch dialing are given on page 41.
- When the hands-free headset is attached to the phone, the telephone number stored in the memory number 0 can be dialed up by pressing and holding the silent mode key.

Dialing in Lock Mode

When making a call in Lock Mode, you must enter the lock code (four-digit) first and then start dialing.

- Details of storing special numbers are given on page 63.

Dialing Emergency #/Special Numbers in Lock Mode

1. Enter the emergency number.
2. Press  to dial.

Note

- Details of unlocking the phone are given on page 62.
- Details of storing special numbers are given on page 63.

Redialing a Call

You can place a call using the last outgoing call log without entering the phone number.

1. Press  in Standby mode.
The last outgoing call log will be displayed.
2. Press  again to dial.

You can also dial using the incoming, outgoing or missed call logs. Details are given later. (P.89 “Calling by Using Call Logs”).

Using the Scratch Pad

During a call, you can take numerical notes by saving them in the phone's memory. They can be reused as phone numbers, etc.

To save a memo (numerical note)

1. During a call press the digit keys to enter a numerical note.
2. Press  [Memo].

The memo will be temporarily saved to the Scratch Pad of the phone's memory.

To paste the memo

Here is an example of how to use the Scratch Pad feature when storing a new phone book entry.

1. When the phone book entry prompt is displayed while you are adding a new phone number or editing an existing phone number, press  [Func].
2. Press  to select Paste Scratch Pad.
The saved memo will be pasted.

Note

The Scratch Pad memory will be erased from the phone's memory when you turn off the phone.

Answering a Call

When you receive a call:

When your phone receives a call, it will ring, or vibrate depending on your ringer setting.

The LED indicator should flash green, then the backlight will light up when you open the phone.

There are two ways to answer a call:

1. Open the phone and press  or press any key* (except the navigation keys and ).
 2. Press  when the phone is open, or press any key* (except the navigation keys and ).
- When Any Key Answer option is enabled. (P.68)
* ( ~  ,  ,  ,  ,  ,  , )

Note

- During a call, the current talk time will be displayed.
- When the hands-free headset is attached to the phone, press  to answer a call. When Auto Answer is set to on (P.68), this option will take priority over the Any Key Answer option.

Tip

- You can adjust the ringer volume in Standby mode using  and . (P.44)
- You can mute the ringer sound by pressing the Silent Mode key. (P.7)
- You can adjust the speech volume during a call using  and . (P.45)
- You can know from whom you receive a call by assigning a unique wallpaper to the phone book entry. (P.58)
- To reject an incoming call, press .
- You can automatically answer a call, when a commercially available hands-free headset is connected and Auto Answer is set to ON. (P.67)

Ending a Call

1. Close the phone, or press .

The approximate duration of the last call will be displayed.

Note

The name and number of the caller will be displayed (approximately 10 seconds) if you have stored it in the phone book. (P.79)

When the Other Party Ends the Call

The Talk time, phone number and name of the called party (if found in the phone book data) will be kept displayed for approximately 10 seconds before the display returns to Standby mode.

Adjusting Ringer Volume

In Standby mode you can quickly adjust the volume of the ringer.

1. Press  and .
2. When finished selecting, press  [OK] to save the setting.

Note

- You do not need to press  [OK] to complete volume setting during a call in progress.
- You can also change the settings for your phone's ringer volume in the Main menu. (P.44)

Muting the Microphone during a Call

You can mute the microphone during a call.

1. Press  [Mute].

The display will change to [Unmute].

Your voice will be muted while the voice of the other party reaches you.

Ending the call will reset the mute setting to off.

To unmute the microphone during a call, press .

Roaming

Check your phone's network status on the display when you turn it on.

Display	Status
(No display)	Home network
	Other CDMA network
	Analog cellular network

Setting the Roaming Feature

1. Press to display the Main menu.
2. Press to select System
3. Press to select Set Service
4. Press to select Automatic or to select No Roaming.

The setting will be saved and the display will return to the System menu screen.

Automatic:

Your phone will search for your home network service first.

When your home network service is not available, it will search for an alternate system automatically.

No Roaming:

This setting allows you to select only your home network to prevent roaming.

5. When the desired service mode is displayed, press [OK] to save the setting.
 - Press to exit without saving the setting.

Roaming Call Guard

This feature allows you to display a confirmation message asking if you really want to use the roaming service or not.

If you set the roaming call guard to on, you can avoid being charged for roaming service.

1. Press  [MENU] to display the Main menu.

2. Press   to select System.

3. Press   to select Call Guard.

4. Press  to select ON or   to select OFF.

When you are receiving roaming service, check the roaming status on the display.

The indicator  and the message “Roaming Call” will be displayed.

Note

- Always dial 11 digits (1+ area code + number) when calling from outside your home network service area.
- When No Roaming is set in the Main menu (P.26), this feature is not effective.
- When the Auto Answer option is set to on, this feature is not effective.

Making Roaming Calls with the Call Guard On

1. Enter the phone number and then press .

The following message will be displayed: “Roaming rate applies. Press SEND to proceed.”

2. Press  to call the party on the other end.

Answering Incoming Calls with the Call Guard On

1. During an incoming call, the following message will be displayed: “Roaming rate applies. Press SEND to accept.”

2. Press  to answer the call.

Voice Calling Experience

When you use your phone on other CDMA networks, your calling experience and call quality will be similar to what you experience when making calls from within your home network.

Although certain voice calling features may not be available, your phone calls are still private and secure.

When you use your phone on analog cellular networks, your experience will be different. Cellular roaming will be similar to the quality provided by conventional analog cellular carriers today. Although you will still have the convenience of being able to make and receive voice calls, here are some differences you can expect:

- You are more likely to experience static, cross-talk, fade-out and dropped calls.
- Some voice calling features (such as Caller ID) that are standard within your home network may not be available.
- Web service, Messaging service and Data/Fax calls cannot be connected.
- Security and privacy risks (eavesdropping and phone number cloning) are the same as those of the conventional analog cellular services today.
- Battery life will be shorter when you use your phone for cellular roaming than when you use it on a CDMA network.

If you are in the middle of a call and leave your home network service area, your call will be dropped. When reentering your home network service area while on a roaming call, end the call, and then turn your phone off and on again to acquire your home network service.

Contact your service provider if you need assistance while using your phone outside of your home network.

Caller ID

When you receive a call from a number that you have stored in the phone book, your phone will display the caller's number and name.

Your number and name can also be displayed on the other caller's phone as well.

Note

- Details of Caller ID service vary depending on your home network and its services. Caller ID may not be available in all areas.
- To prevent your phone number from being displayed for a particular outgoing call and other functions, follow the instructions provided by your service provider.

Call Waiting

Your phone supports Call Waiting service. Using this feature, you can receive a second call while holding the current call.

When you receive a second call during a call in progress, the incoming call alert is heard.

Accepting or Rejecting a Second Call

1. To accept the call, press  .

The current call will be placed on hold, while the second call will be answered.

- Press  again to switch between the current and held call.

2. To reject the call, press  .

Note

The call log of a second call will be saved as a missed call log (P.89) if you do not answer the call.

Temporarily Disabling the Call Waiting Feature

Follow the instructions provided by your service provider.

Permanently Turning Off Call Waiting Feature

Follow the instructions provided by your service provider.

Three-way Calling (Conference Call)

With the Three-way Calling feature, you can have a conference with two other parties.

Note

- You must subscribe to the Three-way Calling service to use this feature.
- Details of the Three-way Calling feature vary depending on your home network and its services.
- The Three-way Calling feature may not be available in all areas.

Beginning a Three-way Calling

1. During a call press  .

The current call will be placed on hold.

2. Enter another phone number and press  .

You will be connected to the third party.

3. Press  again.

Three-way calling will be started.

Note

In step 2 you can recall phone book entries.

Ending a Three-way Calling

1. Press  during Three-way calling.

When one of the other parties ends the call, you will be connected with the remaining party (Two-way calling).

Note

- Your phone will record two outgoing call logs.
- You will be charged for two calls.

Call Forwarding

Using the Call Forwarding feature, you can forward an incoming call to another phone.

When this feature is in use, you can still make a call from your phone.

Note

- You must subscribe to the Call Forwarding service to use this feature.
- Details of the Call Forwarding feature vary depending on your home network and its services.
- The Call Forwarding feature may not be available in all areas.

Setting the Call Forwarding Number

Follow the instructions provided by your service provider.

Disabling Call Forwarding

Follow the instructions provided by your service provider.

Missed Calls

Your phone can record calls you were unable to answer and display a list of missed calls.

When the other party has ended a call before you can answer the incoming call, your phone will put an alert message on the display to indicate that you have missed a call.

Displaying a List of Missed Calls

1. Press  and  [Missed].
Missed call logs list will be displayed.
2. Select a missed call log and press  [OK] to display the contents.
3. Press  to dial or press  to return to Standby mode.

Note

- Up to 20 missed calls can be stored in the phone memory. If more than 20 missed calls are received, the earliest call log will be automatically replaced with the new one.
- Unanswered calls in the Call Waiting service can be recorded in the list of missed calls.
- To display a list of your call logs, see “Viewing Your Call Logs” on page 89.

Dropped Calls (Fade Calls)

When your phone leaves your network service area or a signal fade occurs, an alert message appears on the display.

When a dropped call occurs, it will automatically end and the phone will return to Standby mode.

Failed Calls

When your phone is outside the calling range or your service network is temporarily busy, it displays the alert message on the display.

1. Press  ,  or  to clear the alert message.

Tip

If you turn the Auto Retry option on, your phone will redial automatically under specified conditions (P.68).

Note

If the dropped call is your outgoing call, the call log will be recorded in the outgoing call log list, so that you can redial the number by pressing  twice.

Dialing Your Home Network Operator Services

Follow the instructions provided by your service provider.

Prepend Dialing

This feature allows you to add additional number(s) (e.g. area code, pauses) before the phone number stored in your phone book.

1. Press  [MENU] to display the Main menu.

2. Press  to select Phone Book.

3. Search for the desired number to be prepended.

See page 86 for details on searching methods.

4. Press .

5. Press .

The number will be prepended.

6. Enter the prepend digits (area code or feature activation code) by pressing the digit keys. For feature calls, press  before dialing the feature code.

7. Press  to call the prepended number.

Note

In step 5 you can select Prepend by pressing  [Func] and .

To prepend a phone number from your call logs:

1. Press  [MENU] to display the Main menu.

2. Press  to select Calls.

3. Press  to select Call Logs (outgoing call logs).

•Press  [Missed] to display the missed call logs.

•Press  [Income] to display the incoming call logs.

4. Select the desired number to be prepended and press .

5. Perform steps 5 through 7 above.

Note

In step 5 you can select Prepend by pressing  [Func] and .

Four-digit Dialing

By pressing only the last four digits of a phone number, you can quickly recall matched entries and then dial.

1. Dial any four continuous digits.

2. Press  .

The matched phone number will be recalled.

3. Press  to dial.

Note

If more than one phone number containing the same four digits are found in the phone book, all candidates will be listed by name. When they do not have names, the phone numbers will be displayed instead. Select the desired number and then press  to dial.

Pause Dialing

When you call automated systems (like banking services), you are often required to enter a password or account number. Instead of manually entering the numbers each time, you can store the numbers in your phone book, separated by special characters called pauses.

There are two kinds of pauses that can be entered on your phone:

- “Hard pause” stops the dialing sequence until you press  .
- Timed pause (two-second pause) stops the dialing sequence for two seconds and then automatically sends the remaining digits.

Your phone has two pause dialing methods:

- Pause dialing from the phone book (P.37)
- Manual pause dialing (P.38).

Note

Multiple two second pauses can be entered to extend the length of a pause. For example, two consecutive two second pauses give a total pause time of four seconds.

However, keep in mind that pauses are counted as digits towards the 32 digit dialing maximum.

Tip

See page 80 for storing pauses in the phone book entry.

Dialing a Phone Number Stored with a Timed Pause

Dial the phone number with a Timed pause by recalling the phone book entry.

Two seconds after the connection is established, the Timed pause will be transmitted.

Dialing a Phone Number Stored with a Hard Pause

1. Dial the phone number with a Hard pause by recalling the phone book entry.

The entry prompt for your credit card number, bank account number, etc. will be displayed.

2. Press  to transmit the number (DTMF tone).

Note

The DTMF tone will not be heard when the Key Beep option (P.45) is set to "Silent."

Dialing the Phone Number by Entering the Pause Manually

1. Enter the phone number of the service you want to call (example: bank's teleservice phone number (an 800 number)).
2. Press  [Func] to display the Function menu.
3. Press the digit keys to select the option (Hard pause or Timed pause):

To enter a Hard pause,

- 1 Press .

The initial “H” will be displayed.

- 2 Enter the remaining number.

- 3 Press .

- 4 After the connection is established, press  again.

The number will be sent.

To enter a Timed pause,

- 1 Press .

The letter “T” will be displayed at the end of the phone number.

- 2 Enter the remaining number following the pause (such as your account number).

- 3 Press .

Two seconds after the connection is established, the number will be sent.

Note

We recommend you to store frequently used phone numbers including the pause in your phone book.

Data/Fax Transmission

Using this feature, you can send and receive faxes and data by connecting your phone with a PC.

Your phone comes equipped with a Phone Book utility ("Mobile Phone Manager Software") which is used to transmit data between your phone and a PC. For quick usage, refer to the separate sheet, Quick Start Guide for Mobile Phone Manager Software.

Note

- You must first activate the Fax/Data service setting depending on your home network and your Internet Service Provider (ISP).
- We recommend that you charge the battery to its full capacity before you use this feature.

Requirements

1. Fax/Data service
2. Software for Data/Fax transmission

Sending Fax/Data

Note

You can not receive voicemails while your phone is in Fax/Data communication mode.

1. Start the communication application program.
2. Enter Fax/Data communication mode.

To return to a normal voice call mode, see page 75 (7-3. Data/Fax).

Transmission Specifications

Modem: 9600 bps/14,400 bps

Facsimile: Group 3 9600 bps/14,400 bps

Menus

Menus allow you to check your phone's settings.

Your phone provides a Main menu (P.107) and an In-Use menu.

1. Main menu

The Main menu has seven categories you can access in Standby mode. Each category has its own submenus:

- | | |
|--------------|--------------|
| 1 Phone Book | 5 Security |
| 2 Calls | 6 Setup/Tool |
| 3 Sounds | 7 System |
| 4 Display | |

2. In-Use menu

The In-Use menu has five options you can access in Talk mode:

- | |
|--------------|
| 1 Phone Book |
| 2 Calls |
| 3 Sounds |
| 4 Display |
| 6 Setup/Tool |

Selecting Menus

Method 1: → →

To select the Main menu options, press and then press the navigation keys to scroll through menu options until the desired option is displayed.

Method 2: → Submenu's number

To select the desired submenu directly, press or press the digit key for the submenu's corresponding number.

Note

When you close the phone or when none of the keys has been pressed for 60 seconds, the phone will automatically return to Standby mode.

1. Phone Book Menu

- | | |
|--------------------|---------------------|
| 1-1. Find Name | 1-4. One-touch Dial |
| 1-2. Find by Group | 1-5. My Phone # |
| 1-3. Find Entry # | 1-6. Scratch Pad |

1-1. Find Name

See page 86 for details.

1-2. Find by Group

See page 87 for details.

1-3. Find Entry

See page 87 for details.

1-4. Setting One-touch Dial

This option allows you to dial quickly by pressing and holding any of the digit keys (0 - 8).

To use the one-touch dial feature, choose the candidate to be set as a one-touch dial from the stored phone book entries.

1. Press **M** [MENU] to display the Main menu.
 2. Press **1** to select Phone Book.
 3. Press **4 GHI** to select One-touch Dial.
The names stored in the One-touch Dial list will be displayed.
 4. Select the desired blank number and press **-** [Func].
The Function menu will be displayed.
 5. Press **1** to select Set.
The phone book menu will be displayed.
- To cancel setting, press **CLR**.

6. Search for the desired phone number to be set.
Details of searching for phone numbers are given on page 86.
7. Press  [Set].
The message ‘One-touch Dial x stored!’ (x: numbers 0 through 8) will be displayed and the selected phone number will be saved.

1-5. Displaying My Phone Number

1. Press  [MENU] to display the Main menu.
2. Press  to select Phone Book.
3. Press  to select My Phone #.
4. Press  to return to Standby mode.

Note

During a call, you can also display your phone number in the same manner.

1. Press  [MENU] to display the In-Use menu.
2. Press  to select Phone Book.
3. Press  to select My Phone #.
4. Press  twice to return to the Calling screen.

1-6. Scratch Pad

This feature allows you to display the currently saved memo (numerical note). Details of saving and pasting the memo are given on page 23.

- The memo saved in the scratch pad memory will be cleared when the phone is turned off.

2. Calls Menu

2-1. Call Logs

1. Press  [MENU] to display the Main menu.
2. Press  to select Calls.
3. Press  to select Call Logs.
The outgoing call logs will be displayed.
4. To display the missed call logs, press  [Missed].
5. Then, to display the incoming call logs, press  [Income].
6. To display the outgoing call logs again, press  [Outgo].
The display will switch in this order.
Details of displaying call logs are given on page 89.

2-2. Call Info

Details of displaying call info (Last Call, Recent Call and All Calls) are given on page 91.

3. Sounds Menu

3-1 Volume

Note

- When the headset is connected, "Headset *" will be displayed on your phone's screen.
- The volume will automatically adjust itself to the headset setting.
- We recommend you not to select Level 5 especially when you are driving with the headset on, because it will get in the way of driving.

Normal Ringer

This option allows you to set the Normal ringer volume for voice and fax calls.

There are two ways to set the Normal ringer volume: either set in Standby mode or set from the Main menu.

In Standby Mode

1. Press or until the desired volume is selected.
Silent, Level 1 through 5, and Escalate.
2. When finished selecting, press [OK] to save the setting.

In the Main Menu

1. Press [MENU] to display the Main menu.
2. Press to select Sounds.
3. Press to select Volume.
4. Press to select Normal Ringer.
5. Select one of the following:
Silent, Level 1 through 5 and Escalate
To hear a demo for each level, switch the selection and press [Listen].

- When finished selecting, press **M** [OK] to save the setting.

Key Beep

This option allows you to adjust the volume of the beep tone (key tone) you hear when you press a key.

- Press **M** [MENU] to display the Main menu.
- Press **3^{DEF}** to select Sounds.
- Press **1** to select Volume.
- Press **2^{ABC}** to select Key Beep.
- Select one of the following:
Silent, level 1, level 2, level 3, and level 4.
To hear a demo for each level, switch the selection and press  [Listen].
- When finished selecting, press **M** [OK] to save the setting.

Note

This setting also adjusts the Fade Alert and Service Alert volume.

Speech

This option allows you to adjust the earpiece speech volume.

- Press **M** [MENU] to display the Main menu.
- Press **3^{DEF}** to select Sounds.
- Press **1** to select Volume.
- Press **3^{DEF}** to select Speech.
- Select one of the following:
Level 1, level 2, level 3, level 4 and level 5.
To hear a demo for each level, switch the selection and press  [Listen].

- When finished selecting, press **M** [OK] to save the setting.

Setting the Ringer Volume for Message Ringer

You can select a unique ringer volume for incoming message calls.

This volume setting applies to incoming voicemail notifications, text messages and pagers.

- Press **M** [MENU] to display the Main menu.
- Press **3_{DEF}** to select Sounds.
- Press **1** to select Volume.
- Press **4_{GHI}** to select Message Ringer.
- Select one of the following:
Silent, level 1 through 5 and Escalate
To hear a demo for each level, switch the selection and press **[Listen]**.
- When finished selecting, press **M** [OK] to save the setting.

Setting the Ringer Volume for Alarm/Reminder

This option enables you to select a unique ringer volume for your alarm and reminder.

- Press **M** [MENU] to display the Main menu.
- Press **3_{DEF}** to select Sounds.
- Press **1** to select Volume.
- Press **5_{JKL}** to select Alarm/Reminder.
- Select one of the following:
Silent, level 1 through 5 and Escalate.
To hear a demo for each level, switch the selection and press **[Listen]**.

- When finished selecting, press **M** [OK] to save the setting.

3-2. Silent Mode

This option allows you to mute all sounds, including the wake-up tone, key beep, ringer sound, alert etc. Your phone will notify you of incoming calls by vibrating.

- Press **M** [MENU] to display the Main menu.
- Press **3_{DEF}** to select Sounds.
- Press **2_{ABC}** to select Silent Mode.
- Press **1** to select ON or **2_{ABC}** to select OFF.
- When finished selecting, press **M** [OK] to save the setting.

When you select ON, the  icon will be displayed.

Note

- When Silent mode is set to ON, attaching or removing the headset switches the Silent mode setting between ON and OFF.
- By pressing and holding the Silent Mode key in Standby mode, you can also turn the Silent mode ON and OFF.

3-3. Ringer Type

Using the ringer type option, you can customize up to 5 phone book entries and 3 kinds of ringers (Normal ringer, Message ringer and Alarm/Reminder) by setting a different ringer type for each phone book entry or ringer.

When the caller has subscribed to Caller ID service, a unique ringer tone can be specified.

Setting Ringer Type for Normal Ringer

- Press **M** [MENU] to display the Main menu.
- Press **3_{DEF}** to select Sounds.
- Press **3_{DEF}** to select Ringer Type.

4. Press **1** to select Normal Ringer.
The selectable types will be displayed.
5. If you want to hear a demo for each type, use **▲** or **▼** to select the desired type and press **[Listen]**.
To cancel selecting, press **[Stop]**.
6. When finished selecting, press **M [OK]** to save the setting.

Setting the Ringer Type for Message Calls

This option allows you to specify a unique ringer type for incoming message calls. The ringer type setting applies to incoming voicemail notifications, text messages, pagers and Web messages.

1. Press **M [MENU]** to display the Main menu.
2. Press **3^{DEF}** to select Sounds.
3. Press **3^{DEF}** to select Ringer Type.
4. Press **2^{ABC}** to select Message Ringer.
The selectable tones will be displayed.
5. If you want to hear a demo, use **▲** or **▼** to select the desired tone and press **[Listen]**.
To cancel selecting, press **[Stop]**.
6. When finished selecting, press **M [OK]** to save the setting.

Setting the Ringer Type for the Alarm/Reminder

This option enables you to set a unique ringer type for your Alarm and Reminder.

1. Press **M [MENU]** to display the Main menu.
2. Press **3^{DEF}** to select Sounds.
3. Press **3^{DEF}** to select Ringer Type.

- Press **(3_{DEF})** to select Alarm/Reminder.
The selectable types will be displayed.
- If you want to hear a demo, use **▲** or **▼** to select the desired tone and press **[Listen]**.
To cancel selecting, press **[Stop]**.
- When finished selecting, press **[OK]** to save the setting.

Setting the Name Ringer

This option allows you to set unique ringer types for five phone book entries ('Name ringer').

- Press **[MENU]** to display the Main menu.
- Press **(3_{DEF})** to select Sounds.
- Press **(3_{DEF})** to select Ringer Type.
- Press **(1)** to select Set.
- Choose one of the five options ([4] to [8]) and press **[OK]**.
The phone number search prompt will be displayed.
- Choose an entry and press **[Set]**.
The selectable melodies will be displayed.
- If you want to hear a demo, use **▲** or **▼** to select the desired tone and press **[Listen]**.
To cancel selecting, press **[Stop]**.
- When finished selecting, press **[OK]** to save the setting.

No.	File name	Melody	Composer
01	TurkishMarch	Turkish March	Wolfgang Amadeus Mozart
02	Trepak	Russian Dance Trepak	Pyotr Ilych Tchaikovsky
03	PetitChien	Petit Chien	Frederic Francois Chopin

No.	File name	Melody	Composer
04	Brindisi	La Traviata-Brindisi	Guiseppe Verdi
05	GrandeValse	"Grande Valse Brillante OP.18 Eb"	Frederic Francois Chopin
06	Canon	Canon	Johann Pachelbel
07	TheBear	The Bear	Amerikan Folksong
08	LondonBridge	London Bridge	English Folksong
09	SwaneeRiver	Swanee River	Stephen Collins Foste
10	BeautyDreamer	BeautyDreamer	Stephen Collins Foste

Removing the Name Ringer Setting

1. Perform steps 1 through 3 for setting the Name Ringer.
2. Select one of the five names ([4] through [8]).
3. Press [Remove].
The confirmation message will be displayed.
4. Press to select YES.
The name will be removed from the list.

3-4. Vibrator

This option enables you to set the vibrator option for three ringer types: Normal ringer, Message ringer, Alarm/Reminder.

1. Press [MENU] to display the Main menu.
2. Press to select Sounds.
3. Press to select Vibrator.
4. Press to set the Normal Ringer,
Press to select Message Ringer or
Press to select Alarm/Reminder.
5. Press to select ON or to select OFF.

- 6.** When finished setting, press **(M)** [OK] to save the setting.

When you select ON for the Normal ringer, the  icon will be displayed in Standby mode.

3-5. Ringer Time

This option enables you to set a ringer time (between 2 and 99 seconds) for the Message ringer and Alarm/Reminder.

- 1.** Press **(M)** [MENU] to display the Main menu.
- 2.** Press **(3_{DEF})** to select Sounds.
- 3.** Press **(5_{JKL})** to select Ringer Time.
- 4.** Press **(1)** to select Message Ringer, or
Press **(2_{ABC})** to select Alarm/Reminder.
- 5.** Press the digit keys to enter the desired time between 2 and 99 seconds.
- 6.** When finished setting, press **(M)** [OK] to save the setting.

3-6. Alerts

Fade Alert

This option enables your phone to inform you with an alert tone (Fade Alert) when you have lost a call because your phone is out of calling range or the network is temporarily busy.

- 1.** Press **(M)** [MENU] to display the Main menu.
- 2.** Press **(3_{DEF})** to select Sounds.
- 3.** Press **(6_{MNO})** to select Alerts.
- 4.** Press **(1)** to select Fade Alert.
- 5.** Press **(1)** to select ON or **(2_{ABC})** to select OFF.

Minute Alert

This option causes your phone to sound an alert 10 seconds before each elapsed minute to remind you of the length of the current call.

Turning the Minute Alert On or Off

1. Press **(M)** [MENU] to display the Main menu in Standby mode before placing the call.
2. Press **(3^{DEF})** to select Sounds.
3. Press **(6^{MNO})** to select Alerts.
4. Press **(2^{ABC})** to select Minute Alert.
5. Press **(1)** to select ON or **(2^{ABC})** to select OFF.

Service Alert

This option causes your phone to beep in the following situations:

- when a dropped call or a failed call is found, or
when your phone enters or leaves your home network area.

Turning the Service Alert On or Off

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(3^{DEF})** to select Sounds.
3. Press **(6^{MNO})** to select Alerts.
4. Press **(3^{DEF})** to select Service Alert.
5. Press **(1)** to select ON or **(2^{ABC})** to select OFF.

Privacy Alert

This option sets your phone to make a unique sound when you change the Voice Privacy setting during a call in progress.

Turning the Privacy Alert ON or OFF

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(3_{DEF})** to select Sounds.
3. Press **(6_{MNO})** to select Alerts.
4. Press **(4_{GHI})** to select Privacy Alert
5. Press **1** to select ON or **2** to select OFF.

Wake-up/Good-bye Tone

When this option is set to on, your phone will make a sound (wake-up and good-bye tone), when the wake-up and good-bye screen are displayed.

Turning the Wake-up/Good-bye Tone On or Off

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(3_{DEF})** to select Sounds.
3. Press **(6_{MNO})** to select Alerts.
4. Press **(4_{GHI})** to select Wake-up/Good-bye Tone.
5. Press **1** to select ON or **2_{ABC}** to select OFF.

Message Reminder

This option reminds you every two minutes in Standby mode of unread messages when your phone finds them in the inbox.

Turning the Message Reminder On or Off

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(3_{DEF})** to select Sounds.

3. Press **(6_{MNO})** to select Alerts.
4. Press **(5_{JKL})** to select MSG Reminder.
5. Press **(1)** to select ON or **(2_{ABC})** to select OFF.

Note

This option does not apply to the voicemail or browser messages.

3-7. Tone Length

The tone length setting is used to change the length (short or long) of the DTMF (dual-tone multi-frequency) tones.

The tone length depends on the tele-service system used by the bank or other service (such as a bank account or voicemail system).

Consult the tele-service center for details of the tone length.

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(3_{DEF})** to select Sounds.
3. Press **(7_{S^{POR}})** to select Tone Length.
4. Press **(1)** to select Normal or **(2_{ABC})** to select Long.

4. Display menu

4-1. LCD Contrast

You can adjust the brightness (or contrast) of the backlight.

1. Press **M** [MENU] to display the Main menu.
2. Press **4_{GHI}** to select Display.
3. Press **1** to select LCD Contrast.
4. Press **▲** (Dark) or **▼** (Light).
 - Up to nine levels are available.
5. When the desired contrast is displayed, press **M** [OK] to save the setting.

4-2. Backlight

You can turn the backlight on or off, or adjust the length of the backlighting.

You can save battery power if you turn the backlight setting off. When you select the length of the backlighting, the backlight will be turned off after the selected time elapses.

1. Press **M** [MENU] to display the Main menu.
2. Press **4_{GHI}** to select Display.
3. Press **2_{ABC}** to select Backlight.
4. Press one of the following:
 - 1** Always OFF
 - 2_{ABC}** 7 Seconds
 - 3_{DEF}** 15 Seconds
 - 4_{GHI}** 30 Seconds
 - 5_{JKL}** Always ON

4-3. Automatic Hyphenation

This option allows you to set automatic hyphenation ON/OFF.

Automatic hyphenation follows the North American Numbering Plan, which hyphenates numbers as follows:

800-555-1234

Digits following a pause will not be hyphenated. (P.36 “Pause Dialing”)

1. Press **M** [MENU] to display the Main menu.
2. Press **4_{GHI}** to select Display.
3. Press **3_{DEF}** to select Auto Hyphen.
4. Press **1** to select ON or **2_{ABC}** to select OFF.

4-4. Banner

Your phone can display a banner of up to 100 characters in Standby mode while the phone is on.

The default setting (“Welcome”) can be customized within the specified 100 characters, and a phone number and e-mail address stored in the phone book can also be used.

You can either choose to display a fixed message or have your most frequently received mail message from certain persons (see below) as the banner.

1. Press **M** [MENU] to display the Main menu.
2. Press **4_{GHI}** to select Display.
3. Press **4_{GHI}** to select Banner.
4. Press **1** to select Enter your Message or **2_{ABC}** to select From Inbox Message.

[1] Enter your Message

The default setting (“Welcome”) will be displayed.

Edit the current message as you desire. Up to 100 characters can be entered.

Press **M** [OK] to save the setting.

[2] From Inbox Message

Five candidates will be displayed.

Use or to select one of the five candidates.

When you want to add a new entry, select a blank entry and press [Add New].

The message source list will be displayed: Phone Number and E-mail Address.

Phone Number

Press . The number entry prompt will be displayed.

Then enter the desired number.

E-mail Address

Press . The address entry prompt will be displayed.

Then enter the desired address.

Up to five addresses of the e-mails you have most recently received can be specified as a banner.

5. Press [OK] to save the setting.

6. Press to return to Standby mode.

The message will be displayed in Standby mode.

4-5. Graphics

This feature enables you to select your desired graphic image for the following situations:

1. Wallpaper (Screen image displayed when the phone enters sleep mode if no keys are pressed for 5 seconds.)
2. Standby (Screen image displayed when the phone is in Standby mode.)
3. Incoming Call (Screen image displayed when incoming calls are received.)
4. Custom (Screen image displayed when incoming calls are received from any of twenty phone book entries you selected and assigned the screen image to.)
5. Alarm/Reminder (Screen image displayed when an alarm or reminder sounds.)

1. Press **M** [MENU] to display the Main menu.
2. Press **4 GH** to select Display.
3. Press **5 JKL** to select Graphics.
4. Press each key to select the desired graphic image.
 - Press **1** to select Wallpaper.

The following selections will be displayed.

01 OFF	12 -----
02 Mosaic	13 SHARP Logo
03 Building Block	14 Whirlpool
04 Soarer	15 Sunset
05 Savannah	16 Yacht
06 Dolphin	17 Desert
07 Flower	18 Hill
08 Honeycomb	19 Mountains
09 Tiger	20 Verizon Logo
10 Parrots	21 - 40 -----
11 -----	

- Press **(2_{ABC})** to select Standby.

The same selections listed above will be displayed.

- Press **(3_{DEF})** to select Incoming.

The same selections listed above will be displayed.

- Press **(4_{GHI})** to select Custom.

The following selections will be displayed.

01 Whirlpool	05 Hill
02 Sunset	06 Mountains
03 Yacht	07 Verizon Logo
04 Desert	08 -----

- Press **(5_{JKL})** to select Alarm/Reminder.

The following selections will be displayed.

01 Alarm	06 Hill
02 Sunset	07 Mountains
03 Whirlpool	08 Verizon Logo
04 Yacht	09 - 28 -----
05 Desert	

- Press **(6_{MNO})** to select Wake-up.

The following selections will be displayed.

01 Opening	10 Whirlpool
02 Dolphin	11 Sunset
03 Flower	12 Yacht
04 Honeycomb	13 Desert
05 Tiger	14 Hill
06 Parrots	15 Mountains
07 -----	16 Verizon Logo
08 -----	17 - 86 -----
09 SHARP Logo	

5. Use **▲** or **▼** to select the desired wallpaper.

6. Press **(M)** [OK].

The selected wallpaper will be displayed.

7. Press **(M)** [OK] to save the setting.

Note

- The names of the files downloaded from the PC will be listed in the blank numbers "-----".

- The factory default settings for the following are:

Wallpaper:OFF

Wake-up:Opening

Standby:Whirlpool

Incoming:Sunset

Custom:-----

Alarm/Reminder:Alarm

4-6. Version

You can display your phone's software version, hardware version, ESN* and PRL*. These items of information are needed when you call your home network Customer Care.

* ESN: Electronic Serial Number

* PRL: Preferred Roaming List

* NAM: Number Assignment Module

1. Press **(M)** [MENU] to display the Main menu.

2. Press **(4_{GH})** to select Display.

3. Press **(6_{MNO})** to select Version.

The hardware, software version, ESN and PRL will be displayed.

4. Press **(CLR)** to return to the Information menu screen.

5. Security Menu

To protect your phone from unauthorized use, you can lock it easily from the Main menu, and unlock it as well.

To lock your phone, a four digit lock code must be entered. The factory default setting of the lock code is 0000.

Once you have entered the lock number, you must enter it when you want to change the Security menu settings.

Note

Regardless of whether the phone is locked or not, you can dial emergency numbers (911, *911 and #911) and three specified numbers (P.63 “Special Numbers”), and answer incoming calls as well.

5-1. Lock Mode

1. Lock ON Power Up

This option allows you to lock the phone every time you turn it on.

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(5_{JKL})** to select Security and enter your current lock code.
3. Press **(1)** to select Lock Mode.
4. Press **(1)** to select Lock ON Power Up.

The phone will be automatically locked when you turn it on. To enable this setting, turn the power off and on again.

2. Lock Now

1. Perform steps 1 through 3 above.
2. Press **(2_{ABC})** to select Lock Now.

The phone locks immediately and stays locked until the lock code is entered.

3. Unlock

1. Perform steps 1 through 3 for Lock ON Power Up on page 61.
2. Press **(3_{DEF})** to select Unlock.

The phone will be unlocked immediately and the display will return to the Security menu screen.

5-2. New Code

The default lock code for your phone is set to 0000. You can set a unique lock code and change the lock code if necessary.

Note

- Be sure to write down the new lock code.
- If you forget your lock code, contact your service provider.

Entering a New Lock Code:

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(5_{JKL})** to select Security and enter your current lock code.
3. Press **(2_{ABC})** to select New Code.
4. Enter a new, four-digit lock code by pressing the digit keys.
The lock code will be replaced with the * mark, protecting your phone against unauthorized use.
 - To cancel entering a new code, press **()** or **(CLR)**.
5. Press **(M)** [OK] to save the new lock code.

5-3. Emergency #/Special Numbers

You can store three phone numbers (Special Numbers) that can be dialed even when the phone is in Lock mode.

Once you store these numbers in the phone book, they can be dialed manually.

Storing Special Numbers

1. Press **M** [MENU] to display the Main menu.
2. Press **5_{JKL}** to select Security and enter your current lock code.
3. Press **3_{DEF}** to select Emergency #.
4. To select a location to store the special number:
 - Press **1** to select Undefined 1,
 - Press **2_{ABC}** to select Undefined 2, or
 - Press **3_{DEF}** to select Undefined 3.
5. Press **1** to select Enter Number or **2_{ABC}** to select Search Phone Book.

[1] Enter Number

1. Enter the special number by using the digit keys.
2. Press **M** [OK] to save the number in the selected location.

[2] Search Phone Book

1. Perform the search procedure explained on page 86.
2. Choose the desired name and press **M** [OK].
The contact of the selected name will be displayed.
3. Press **M** [OK] to save the number in the selected location.

Removing the Setting

1. Repeat the storing procedure (steps 1 through 3).
2. Choose the desired setting.
3. Press  [Remove].

The stored name will return to the original naming (Emergency 1, 2, or 3).

5-4. Erase All

You can erase all data stored in your phone book, messages and call logs.

1. Press  [MENU] to display the Main menu.
2. Press  to select Security and enter your current lock code.
3. Press  to select Erase All
4. Press  to select Phone Book.

A confirmation message will be displayed to ask if you are sure you want to erase the entire phone book data.

- Press  to select Call Logs.
 - Press  to select Messages.
 - Press  to select Custom Files.
5. Press  to select YES.
The final confirmation message will be displayed.
 6. Press  to select YES.
When finished erasing, “Erased!” will be displayed and the phone will return to the Erase all menu screen (step 4).

Note

It is a good idea to save or download important information (phone book data) to a PC using the Phone Book utility software provided as a precaution. (P66)

5-5. Secret Memory

1. Press **M** [MENU] to display the Main menu.
2. Press **5_{JKL}** to select Security and enter your current lock code.
3. Press **5_{JKL}** to select Secret Memory.
4. Press **1** to select ON or **2_{ABC}** to select OFF.
Selecting ON allows you to protect phone book entries stored as a secret entry from unauthorized use.
Selecting OFF allows you to display all phone book entries including secret entries.
5. Press **M** [OK] to save the setting.

5-6. Reset

If for some reason there is a faulty operation or failure, you will need to reset all settings of your phone to the factory defaults.

1. Press **M** [MENU] to display the Main menu
 2. Press **5_{JKL}** to select Security and enter your current lock code.
 3. Press **6_{MNO}** to select Reset.
 4. Press **1** to select OK.
A confirmation message will be displayed to ask if you are sure you want to reset the phone.
 5. Press **1** to select YES.
 6. Press **M** [OK] to execute resetting.
After resetting is completed, the phone will be restarted and enter Standby mode. During resetting, “Now Resetting...” will be displayed.
- To cancel resetting, press **2_{ABC}** to select Cancel in step 4, or press **2_{ABC}** to select NO in step 5.

Information on the Phone Book Utility

Your phone comes equipped with a Phone Book Utility ('Mobile Phone Manager Software') which is used to transmit data between your phone and a PC.

This software is comprised of three kinds of utilities: Phone Book Manager, Melody Manager and Wallpaper Manager.

[Phone Book Manager]

This software makes a backup file of the Phone Book entries registered on your phone and transfers new entries created on a PC to your phone.

[Melody Manager]

This software downloads melody files used for ringer types from the Internet and transfers them to your phone. Twenty initial samples are provided.

[Wallpaper Manager]

This software downloads image files (graphics or photos) for wallpaper files, etc. from the Internet and transfers them to your phone. Twenty initial samples (photos) are provided.

- For quick usage refer to the separate sheet, Quick Start Guide for Mobile Phone Manager Software.

6. Setup/Tool Menu

6-1. Memory Status

This option helps you to view the memory status of the following records.

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(6_{MNO})** to select Setup/Tool.
3. Press **(1)** to select Memory Status.

The following records will be displayed:

Phone Book 098/300

Messages 100 %

Custom Files

Graphics 18/22

Music 7/10

6-2. Calling

Turning the Auto Answer Option On or Off

This option sets your phone to automatically answer a call after one ring when a commercially available hands-free headset is attached to your phone.

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(6_{MNO})** to select Setup/Tool.
3. Press **(2_{ABC})** to select Calling.
4. Press **(1)** to select Auto Answer.
5. Press **(1)** to select ON or **(2_{ABC})** to select OFF.

Turning the Any Key Answer Option On or Off

1. Press **M** [MENU] to display the Main menu.
2. Press **6_{MNO}** to select Setup/Tool.
3. Press **2_{ABC}** to select Calling.
4. Press **2_{ABC}** to select Any Key Answer.
5. Press **1** to select ON or **2_{ABC}** to select OFF.

Note

Other ways of answering a call are explained on page 24.

Turning the Auto Retry Option On or Off

This option allows you to set your phone to redial automatically up to five times after the specified length of time, until your call is picked up.

1. Press **M** [MENU] to display the Main menu.
2. Press **6_{MNO}** to select Setup/Tool.
3. Press **2_{ABC}** to select Calling.
4. Press **3_{DEF}** to select Auto Retry.
The options will be displayed.
5. Press **1** to select Every 60 sec.
 - Press **2_{ABC}** to select Every 30 sec.
 - Press **3_{DEF}** to select OFF.
The Auto retry option will be turned off.

Setting the Voice Privacy

This option allows you to change your voice on the phone to encrypted mode.

1. Press **(M) [MENU]** to display the Main menu.
2. Press **(6_{MNO})** to select Setup/Tool.
3. Press **(2_{ABC})** to select Calling.
4. Press **(4_{GHI})** to select Voice Privacy.
5. Press **(1)** to select Automatic.
 - Press **(2_{ABC})** to select Enhanced.

Note

Contact your home network operator to see if this option is available.

6-3. Voicemail

This option allows you to set a phone number for your voicemail service.

Note

Details of voicemail service vary depending on your home network system and its services.

1. Press **(M) [MENU]** to display the Main menu.
2. Press **(6_{MNO})** to select Setup/Tool.
3. Press **(3_{DEF})** to select Voicemail.
4. Enter the specified phone number.
5. Press **(M) [OK]** to save the setting.

6-4. Message

1. Callback

If for some reason you can not answer a call, you can inform the caller of the phone number which you want to be called back at.

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(6_{MNO})** to select Setup/Tool.
3. Press **(4_{GHI})** to select Message.
4. Press **(1)** to select Callback #.
5. Enter the desired phone number.
6. Press **(M)** [OK] to save the setting.

2. Delivery ACK

You can send an acknowledgement to the sending party when you successfully receive incoming data.

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(6_{MNO})** to select Setup/Tool.
3. Press **(4_{GHI})** to select Message.
4. Press **(2_{ABC})** to select Delivery ACK.
5. Press **(1)** to select ON with notification.

You can check the notification message on the display that the acknowledgement has been sent.

- Press **(2_{ABC})** to select ON.

You can send the acknowledgement without a notification message.

- Press **(3_{DEF})** to select OFF.

6. Press **(M)** [OK] to save the setting.

3. Canned Messages

You can edit or add to the fixed forms used when sending messages.

1. Press **M** [MENU] to display the Main menu.
2. Press **6_{MNO}** to select Setup/Tool.
3. Press **4_{GHI}** to select Message.
4. Press **3_{DEF}** to select Canned Message.

The following selections will be displayed:

[1] Yes	[11] Meeting canceled
[2] No	[12] Meet me at
[3] Call me	[13] Call me at
[4] Need Directions	[14] Please Help!
[5] Where are you ?	[15] -----
[6] Will call later	[16] -----
[7] Busy	[17] -----
[8] On my way	[18] -----
[9] Will arrive 15 minutes	[19] -----
[10] Thank you	[20] -----

5. Press the number you want to edit ([1] through [14]), or add a new message to ([15] through [20]).
6. Edit the current message or add a new message.
7. Press **M** [OK] to save the setting.

6-5. Browser

Details of setting the call time display are given on page 99.

6-6. Alarm

Note

- Alarm settings are not effective while your phone is turned off.
- Do not use the Alarm function in prohibited areas.

Alarm Clock

Setting the Daily Alarm

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(6_{MNO})** to select Setup/Tool.
3. Select **(6_{MNO})** to select Alarm.
4. Select **(1)** to select Daily Alarm.
5. Press **(1)** to select ON.
6. Press the digit keys to enter the desired alarm time.
Use the digit keys and press **▲** or **▼** to set AM or PM.
7. Press **(M)** [OK] to save the setting.

Deleting the Daily Alarm Setting

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(6_{MNO})** to select Setup/Tool.
3. Select **(6_{MNO})** to select Alarm.
4. Press **(1)** to select Daily Alarm.
5. Press **(2_{ABC})** to select OFF.

Call Reminder

You can set your phone to remind you to call a specified person at a preset day and time. When the alarm occurs, you will be notified by the alarm tone and the phone number to call will be displayed.

Setting the Call Reminder

1. Press **M** [MENU] to display the Main menu.
2. Press **6_{MNO}** to select Setup/Tool.
3. Press **6_{MNO}** to select Alarm.
4. Press **2_{ABC}** to select Call Reminder.
5. Press **1** to select ON or **2_{ABC}** to select OFF.
Select the search method from one of the following:
 - [1] to select Search Phone Book
 - [2] to select Search Call Logs
 - [3] to select Enter Name
6. Press **M** [OK].
7. Enter the date and time for the alarm by using the digits keys.
8. Press **▲** or **▼** key to select AM or PM.
9. Press **M** [OK] to save the Call Reminder setting.

Disabling the Call Reminder Setting

1. Press **M** [MENU] to display the Main menu.
 2. Press **6_{MNO}** to select Setup/Tool.
 3. Select **6_{MNO}** to select Alarm.
 4. Press **2_{ABC}** to select Call Reminder.
 5. Press **1** to select ON.
 6. Press **[Remove]** [Remove].
 7. Press **1** to select YES.
- To cancel removing the setting, press **2_{ABC}** to select NO.

6-7. Set Clock

This option allows you to set the current date and time.

The factory default setting is “January 1, 2001.”

Note

- Automatic settings provided by the CDMA network take priority over manual settings.
- Display items vary depending on your home network service area.
- Manual settings are effective when the phone is turned ON in non-digital environments. Depending on your service area, "Factory default setting" may be displayed initially.

1. Press **(M)** [MENU] to display the Main menu.

2. Press **(6_{MNO})** to select Setup/Tool.

3. Select **(7_{S^{POR}})** to select Set Clock.

The following clock format will be displayed:

Date (M/D/Y)

0 1 / 0 1 / 2 0 0 1

Time (H:M)

12:00 AM (PM)

4. Press the digit keys to set the current date and time.

5. Press **(M)** [OK] to save the setting.

6-8. Input Mode

This option allows you to switch the input mode between Standard and T9.

This mode applies to entering mail messages, Banner messages, and Canned messages.

1. Press **(M)** [MENU] to display the Main menu.

2. Press **(6_{MNO})** to select Setup/Tool.

3. Select **(8_{TUV})** to select Input Mode.

4. Press **(M)** [OK].

5. Press **(1)** [YES] to select Standard or press **(2_{ABC})** [NO] to select T9.

7. System Menu

7-1. Set Service

Details of setting the option for roaming feature are given on page 26.

7-2. Force Mode

This feature switches your phone's receiving mode between analog or automatic (CDMA PCS, CDMA cellular, or analog).

1. Press **M** [MENU] to display the Main menu.
2. Press **7_S^{POR}** to select System.
3. Press **2_{ABC}** to select Force mode.
4. Press **1** to select Automatic,
Depending on the receiving signal, your phone will be automatically switched to CDMA PCS, CDMA cellular, or analog mode.
 - Press **2_{ABC}** to select Analog Call,
Your phone will be locked to analog mode.
Analog mode will be kept effective for 10 minutes after this option is selected, or until you turn the phone off within 10 minutes.
5. Press **M** [OK] to save the setting.

7-3. Data/Fax

This option allows you to change receiving modes for Data and Fax communication when your phone is connected to a PC as a wireless modem.

1. Press **M** [MENU] to display the Main menu.
2. Press **7_S^{POR}** to select System.
3. Press **3_{DEF}** to select Data/Fax.
4. Press **1** to select Voice only.
Received data will be recognized as voice data.

- Press **(2_{ABC})** to select Data until Power Off.
Only data other than fax data will be received. This setting is effective until your phone will be turned off.
 - Press **(3_{DEF})** to select Fax until Power Off.
Only fax data will be received. This setting is effective until your phone is turned off.
5. Press **(M)** [OK] to save the setting.

7-4. Roaming Call Guard

Details of setting the roaming call guard are given on page 27.

8. Custom Files

8-1. Graphics

This option allows you to view and delete the images downloaded from a PC.

Viewing Downloaded Graphic Files

1. Press **M** [MENU] to display the Main menu.
2. Press **8_{TUV}** to select Custom Files.
3. Press **1** to select Graphics.
4. Use **▲** or **▼** to select the file name and press **M** [OK].
The image will be displayed.
Press **M** [OK] to return to step 4 above.

Erasing a Graphic File

1. Press **M** [MENU] to display the Main menu.
2. Press **8_{TUV}** to select Custom Files.
3. Press **1** to select Graphics.
4. Use **▲** or **▼** to select the file name and press **–** [Remove].
5. Press **1** to select YES.
The following message will be displayed: Graphics #XX Erased! Default graphics set. (XX: entry number)

Note

When you delete the screen image currently used for the wallpaper, the default wallpaper will be set.

8-2. Music

This option allows you to play the melody files stored in the phone's memory or downloaded from a PC, and easily reset the music file used for the ringer type to the default ringer type.

Listening to Music

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(8_{TUV})** to select Custom Files.
3. Press **(2_{ABC})** to select Music.
4. Use **▲** or **▼** to select the file name and press **(M)** [OK].
5. The selected file will be played.
6. Press **(M)** [OK] to return to step 4 above.

Erasing a Single Melody

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(8_{TUV})** to select Custom Files.
3. Press **(2_{ABC})** to select Music.
4. Use **▲** or **▼** to select the file name and press **(M)** [OK].
5. The selected file will be played.
6. Press **(-**) [Remove].
7. Press **(1)** to select YES.

The following message will be displayed: Music #XX
Erased! Default music set. (XX: entry number)

Note

- The melody files, registered in the phone's memory, which can be overwritten are marked with (#).
- In the case that you erase a custom music file (Entry number: XX) which has been set as a ringer pattern, the ringer pattern will be set to Entry number: XX's original factory default music.

Phone Book Dialing

Your phone can store up to 300 phone numbers.

Phone number: 32 digits including hard pauses and timed pauses

Name: Up to 16 characters

E-mail address: Up to 48 characters

Group: 10 groups (9 groups + default)*

Categories: (None), Home, Work, Mobile, Pager, Fax

* Group names can not be changed.

Tip

- You can store a phone number as a secret entry to protect it from unauthorized use. (P.85)
- Up to nine phone numbers can be registered for one-touch dialing. (P.41)

Storing a Phone Number and Name

1. Press  [MENU] to display the Main menu.
2. Press  to select Phone Book.
3. Press  [Add New].
The name entry prompt will be displayed.
4. Enter a name and press  [OK].
See page 81 for details on entering characters.
5. Select a desired category for a new entry and press  [OK].
 - [1] None, [2] Home, [3] Work, [4] Mobile, [5] Pager and [6] Fax
6. Press  [OK] to enter the phone number.
The phone number entry prompt will be displayed.

7. Press the digit keys to enter the phone number.
8. If necessary, press  [Func] to enter a hard pause ([1] key) or a timed pause ([2] key).
9. Press  [OK].
The next item (E-mail address) will be highlighted.
10. Press  [OK].
The e-mail address entry prompt will be displayed.
11. Enter the e-mail address.
 - Up to 48 characters can be entered.
12. Press  [OK].
The next item (Entry #) will be highlighted.
13. Press  [OK].
14. Enter the desired number (3-digit) and press  [OK] to save the setting.
 - The entry number range is from 001 to 300.
 - When inputting a one or two-digit entry number (ranging from 001 to 099), you can complete storage by pressing the corresponding one or two digits keys.
Example: Press    for entry number 002.

Note

- A phone number or a mail address must be entered to complete storing.
- This procedure can be completed only with the e-mail address. The name and telephone number are not always needed.
- If a warning message is displayed to indicate that you are going to overwrite a location, enter another number and press  [OK].
- If you press  [OK] without entering a memory number, the lowest blank memory number will be assigned.

Storing Phone Numbers with Pauses

1. Enter the phone number you want to store (such as the bank's teleservice phone number).

2. Press  [Func] to display Function menu.

- Press  or  to enter the desired pause:

– To enter a Hard Pause, press .

The letter “H” will be displayed at the end of the number.
Then enter the digits following the pause (such as your account number), or

– To enter a Timed pause, press .

The letter “T” will be displayed at the end of the phone number.
Then enter the number following the pause (such as your account number).

3. Store the phone number by pressing  [Store].

4. Follow the screen prompt.

Entering Characters

When entering characters (letters, numbers or punctuation marks) to create phone book entries, press the corresponding key.

Pressing each key scrolls characters in the following order when the input method is set to “Standard” (normal input method).

Available characters in Standard mode

 .(period) @ / 1 ? ,(comma) -(hyphen) '(apostrophe) () : ;

 a b c A B C 2

 d e f D E F 3

 g h i G H I 4

 j k l J K L 5

 m n o M N O 6

 p q r s 7 P Q R S

 t u v 8 T U V

 w x y z 9 W X Y Z

 0

 (Inserts a space)

 • Performs the same function as .

- Displays the Symbols input mode screen when the key is pressed and held.

- To enter uppercase letters, press the left soft key until **ABC** is displayed.
- To enter the first letter of the name, etc. in uppercase, press  until **ABC₁** is displayed.
- To correct the last character, press **CLR** briefly.

Press and hold it to clear all characters.

Changing the Input Modes

By choosing the desired input mode and selecting edit options in the entry prompt screen, you can reduce input time. Press  [Mode] on the entry prompt screen.

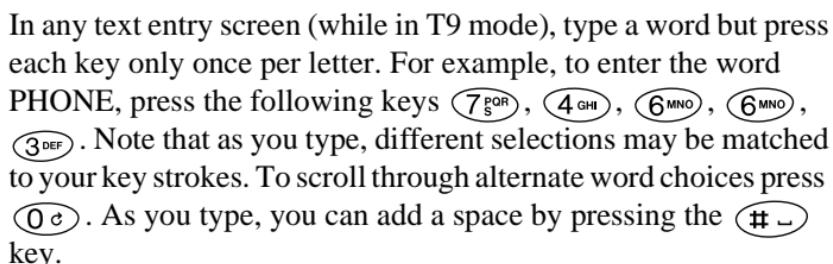
Input mode and edit options will be displayed:

- [1] T9 (Standard), [2] Numerals (Standard), [3] Symbols,
- [4] Canned Messages (P.73), [5] Copy, [6] Cut, [7] Paste

T9 Text Input

T9 text input is a shortcut method used to enter text quickly and easily. When you type using this method, you need to press the corresponding key only once for each letter of the word. T9 will determine the word by comparing your key strokes with its internal database and display the most commonly used matching word.

How to Enter Text in T9 Mode

In any text entry screen (while in T9 mode), type a word but press each key only once per letter. For example, to enter the word PHONE, press the following keys 

Adding Words to your T9 Database

Your T9 database can be easily customized as well. To add a new word to the T9 database, type the word using the Standard input method and press OK. The word will be automatically saved to the

T9 database and will be displayed as a choice the next time you use T9.

Symbol

To enter symbols, press  [Func] and select [3] (Symbols).

Select the desired symbol and press  [OK].

Canned Message

To enter fixed text, press  [Func] and select [4] (Canned Messages).

Select the desired text and press  [OK].

- Canned messages can be edited in the Main menu. (P.71 “Canned Messages”)

Copy, Cut and Paste

In the entry prompt screen, you can use these options to complete editing smoothly.

Copy and Cut

1. Press  [Func] to display the Function menu.
2. Select Copy or Cut and press  [OK].
3. Move the cursor to the first letter to be copied or to be cut and press  [OPEN].
4. Move the cursor to the last letter to highlight the area and press  [END].
The highlighted area will be saved temporarily in the memory.

Paste

5. Press  [Func] to display the Function menu.
6. Select Paste.
7. Move the cursor to the point where you want to paste the letters.

8. Press  [OPEN].

Saved letters will be pasted.

For example, this method helps you complete mail messages quickly.

- To return to the normal input mode (Standard), press  [Func] and select [1] (Standard).

Overwriting an Existing Location

You can replace existing data with a new phone number or change a part of the stored data.

1. Press  [MENU] to display the Main menu.
2. Press  to select Phone Book.
3. Perform the search function and select the desired entry.
4. Press  [OK].
The personal contact will be displayed.
5. Press  [Func] to display the Function menu.
6. Press  to select EDIT.
7. If necessary, change the desired entry.
8. Press  [Save] to save the setting.
9. Enter the memory number and press  [OK].

Note

If the desired memory location already contains an entry, the phone displays a message asking if you want to replace the current entry. To replace the entry, press  [OK].

To return to the previous screen and select another location, press .

Phone Number Storage (Shortcut Method)

1. Enter the phone number in Standby mode.
2. Press  [Store].

3. Repeat the steps 4 through 14 for “Storing a Phone Number and Name” on page 79.

Tip

You can quickly store phone numbers using the incoming or outgoing call logs. (P.90)

Storing a Phone Number with a Group Setting (Property1)

1. Repeat steps (1 through 14) of storing a phone number and name on pages 79 and 80.
2. Press  [Func].
The Function menu will be displayed.
3. Press  to select [Property1].
4. Press  to select [Gr: (current setting)].
5. Press the desired number.

Storing a Phone Number as a Secret Entry (Property1)

Note

To use this menu, first set the secret memory to OFF using the Main menu. (P.65)

1. Repeat steps (1 through 14) of storing a phone number and name on pages 79 and 80.
2. Press  [Func].
The Function menu will be displayed.
3. Press  to select [Property1].
4. Press  to select [Secret].
5. Press  to select ON or  to select OFF and press  [OK].
The setting will be saved.

Confirming the Custom Settings (Property 2)

You can confirm custom settings for each phone book entry: One-touch dial setting, ringer tone, and wallpaper graphics.

1. Display the name you want to confirm.
2. Press  [Func] to display the Function menu.
3. Press  to select Property2.

Custom settings for one-touch dial (P.42), ringer type (P.47), and graphics (P.58) will be displayed.

Searching for and Dialing Phone Numbers

There are three methods of searching for and dialing phone numbers that you have stored.

Finding by Name

1. Press  [MENU] to display the Main menu.
2. Press  to select Phone Book.
3. Press  to select Find Name.
4. Enter up to 16 characters to be found and press  [OK].
Matched results will be displayed alphabetically.
5. Scroll through the list using  and  [OK].
7. Press  twice to dial.

Finding by Group

1. Press  [MENU] to display the Main menu.
2. Press  to select Phone Book.
3. Press  to select Find by Group.
The group names will be displayed:

- [0] Unfiled, [1] Personal 1, [2] Personal 2, [3] Personal 3, [4] Business 1, [5] Business 2, [6] Business 3, [7] Others 1, [8] Others 2, [9] Service

4. Press the desired digit keys or use or to locate the entry.
5. When the desired entry is found, press [OK].
6. Press twice to dial.

Finding by Entry

1. Press [MENU] to display the Main menu.
2. Press to select Phone Book.
3. Press to select Find Entry #.
The number entry prompt will be displayed.
4. Enter the desired entry number and press [OK].
A matched entry will be highlighted and the remaining entries will be displayed.
5. When the desired entry is found, press [OK].
6. Press twice to dial.

Note

When you press [OK] without entering the number in step 4, the lowest entry will be highlighted and the remaining entries will also be displayed.

Modifying Your Phone Book Entries

You can recall a desired phone book entry and modify it.

1. Search for the desired phone book entry in Standby mode.
Details of searching for phone book entries are given on page 86.
2. Press  [Func] to display the Function menu.
3. Press  1 to select Edit.
4. Select an entry you want to change and press  M [OK].
5. Edit it as you wish.
6. Press  [Save] to save the change.
(Selecting the “Entry #” and then pressing  M [OK] allows you to save the change.)

Erasing a Single Phone Book Entry

1. Search for the desired phone book entries in Standby mode.

Details of searching for phone book entries are given on page 86.

2. Press  [Func] to display the Function menu.
3. Press  4 _{GHI} to select Erase.
The erase confirmation message will be displayed.
4. Press  1 to select YES.

When erasing is complete, the message “Memory #xxx Erased!” (xxx: entry number) will be displayed and the display will return to the name list.

Erasing All Phone Book Entries

Details of erasing all phone book entries are given on page 64.

Storing Your Phone Book Entries in Secret Mode

Your phone will protect specified numbers from unauthorized use by assigning the phone book entries to secret memory. (P.85)

Viewing Your Call Logs

You can view your stored call logs (incoming calls, outgoing calls and missed calls).

Incoming call logs: Last 20 calls

Outgoing calls: Last 20 calls

Missed calls: Last 20 calls

When recalling these call logs, the following data will be displayed:

1) Time and Date

2) Name (if stored in the phone book) or phone number (if available by the Caller's ID service)

Details of viewing these call logs are given below.

Note

If no name has been stored, the telephone number will be displayed instead; and if you have stored the number as an emergency number, "Emergency" will be displayed instead of the other party's name.

Calling by Using Call Logs

You can quickly dial in Standby mode using the call logs (incoming call, outgoing call or missed call logs).

1. Press  [MENU] to display the Main menu.
2. Press  to select Calls
3. Press  to select Call Logs.
The outgoing call logs will be displayed.
4. To display the missed call logs, press  [Missed].
5. Then, to display the incoming call logs, press  [Income].

- 6.** To display the outgoing call logs again, press  [Outgo].

The display will switch in the following order.

(outgoing call logs) → (missed call logs) → (incoming call logs) → (outgoing call logs) ...

To place a call using these logs:

- 7.** Select the desired log.

The selected log will be highlighted.

- 8.** Press  to select it.

- 9.** Press  again to dial.

Tip

If you want to display the contents of the selected log, press  [OK].

If you want to edit them, press  [Func] in step 7 to display the Function menu.

Function menu:

- [1] to store the call logs
- [2] to erase selected call logs
- [3] to erase all call logs (P. 64)

Storing the Phone Number by Using the Call Logs

- 1.** Repeat steps 1 to 7 of viewing the call logs on pages 89 and 90.

- 2.** Press  [Store].

The name entry prompt will be displayed.

- 3.** Repeat steps 4 to 14 of storing a phone number and name on Page 79 and 80.

Erasing a Single Call Log (Outgoing, Incoming or Missed Call)

1. Perform steps 1 through 7 on pages 89 and 90.

2. Press  [Func].

3. Press  **2_{ABC}** to select Erase.

4. Press  **1** to select Yes.

The message “Outgoing calls XX Erased!” (XX: entry number) will be displayed and erasing will be complete.

To erase all entries in the call log:

• Press  **3_{DEF}** to select Erase All in step 3 above.

The confirmation message “Outgoing calls Erase All?” will be displayed.

• Press  **1** to select YES.

Erasing will be complete.

Viewing Your Call Info

Your phone keeps track of all your calls and groups them into four categories:

- 1 Last Call: Displays the duration of your most recent call measured in minutes and seconds using the following format: xx:yy (or xx:yy:zz for calls one hour in length or more.)
- 2 Home Calls: Displays the total number of calls you made inside your home network service area and the total duration of all your home calls since the last reset.
- 3 Roam Calls: Displays the total number of calls you made inside your roaming network service area and the total duration of all your roaming calls since the last reset.
- 4 All Calls: Displays the total number of calls you made inside your home and roaming network service areas and the total duration of all your calls. Note: This can not be reset.

1. Press **(M)** [MENU] to display the Main menu.
2. Press **(2^{ABC})** to select Calls.
3. Press **(2^{ABC})** to select Call Info
4. Press **(1)** to select Last Call, **(2^{ABC})** to select Recent Calls, or **(3^{DEF})** to select All Calls.

When Recent Calls is selected, your phone will display the following three kinds of information: Home Calls, Roam Calls and the total number of these two calls.

Voicemail

Setting Up Your Voicemail Feature

Contact your service provider to setup your voicemail.

Viewing Voicemail Messages

There are two ways viewing voicemail messages: either display them in Standby mode or use the One-Touch Access feature (see below).

In Standby Mode

1. Press  [Message] to display the Message menu.
2. Press  4 GHI to select Voicemail.
The message “Voicemail New” will be displayed.
3. Press  [Listen] to play a voicemail message.

Note

Press  [Erase] to clear the mail indicator () on the display, if necessary. (The indicator will also be cleared automatically when you have played all the messages received.)

Accessing with the One-Touch Access Feature

1. Press and hold  [Message].

Messaging

Your phone can receive the following message types in Standby mode and Talk mode:

- Voicemail messages
- Text messages
- Browser messages

Notification

The message indicator () will be displayed when your phone receives messages and remains displayed until you retrieve all the messages.

Note

Details of voicemail feature vary on your home network and its services.

Standby Mode

When you receive a message, you will be notified by the ringer sound (while the phone is on), and the following messages will be displayed:

- “New Voicemail” for voicemail messages
- “New Text” for text messages
- “New BrowserMsg” for browser messages

Talk Mode

When you receive a message, the phone’s ringer will be automatically muted, the notification tone will be heard from the earpiece.

You can retrieve a new message during a call by pressing  [OK].

While retrieving a message, you will remain connected to the other party.

By using the optional hands-free headset, you can read the message without interrupting the conversation.

Viewing a Text Message in Standby Mode

1. Press  [Message] to display the Message menu.
2. Press  to select Inbox.
A list of messages will be displayed.
Messages marked with ! : Urgent unread messages
Messages with no mark : Read messages
3. Use the navigation keys to select the desired message.
4. Press  [OK] to view the message.
The sender's name, phone number, time/date stamp and the message will be displayed.

Note

Use the Message menu when handling the messages, by pressing  [OK]. (P.94)

5. When finished viewing, press  to return to the previous screen.

Viewing a Browser Message in Standby Mode

1. Press  [Message] to display the Message Menu.
2. Press  to select Browser.
A list of messages will be displayed.
3. Use the navigation keys to select the desired message.
4. Press  [OK] to view the message.

Message Menu

The Message menu allows you to handle messages while you are viewing them.

- Showing the address of the caller
- Erasing a single or all message(s)
- Locking or unlocking a message

1. While viewing a message, press  [Func] to display options: .

Press  to select Address's Info

Press  to Erase (P.97)

Press  to Erase All (P.97)

Press  to Lock/Unlock

Note

If more than one phone number is included in the message, a list of the phone numbers will be displayed, and you can choose the desired one.

2. When handling is completed, press  to return to the previous screen.

Erasing a Single Message

1. While viewing the message, press  [Func] to display the Message menu.
2. Press  to select Erase.
The delete message confirmation will be displayed.
3. Press  to delete or  to cancel.

Erasing All Messages

1. While viewing the message, press  [Func] to display the Message menu.
2. Press  to select Erase All.
The delete all messages confirmation will be displayed.
3. Press  to delete all messages stored in the memory or  to cancel.
When erasing is completed, the display will return to the main Message menu.

Message Ringing

You can set a unique ring type for an incoming message, voicemail, or Web message.

Details of setting a unique ringer type are given on page 47.

Message Memory Capacity

Up to 30 messages (depending on the length of the messages)

- When the message memory reaches full capacity, an alert message will be displayed.

The phone will reject new incoming messages until you erase some of the stored messages.

Messages and Lock Mode

- When the phone is set to Lock mode:

Turn the lock mode off first to access the incoming messages.

Details of unlocking the phone are given on page 62.

Internet Access

Using the phone's Internet functions, you can access and obtain the world's network information (depending on your telecommunications carrier).

By starting the MiniBrowser installed in your phone, you will be connected to the Internet through your telecommunications carrier. While you are connected to the Internet, the service indicator () will be displayed as in the case of a normal phone call.

Charges vary, depending on the network service you access and you will be invoiced accordingly.



Setting the Charging Reminder of Your Browser

The Charging Reminder displays a prompt every time you start the MiniBrowser and tells you when you will be charged for connection time.

1. Press  [MENU] to display the Main menu.
2. Press  to select Setup/Tool
3. Press  to select Browser Prompt.
4. Press  1 to select Both.

The prompt will be displayed when you open or exit the browser.

- Press  to select At Start.
- The prompt will be displayed while the browser is running.
- Press  to select At End.
- The prompt will be displayed when you exit the browser.

- Press  to select No Prompts.
 - The reminder will not be displayed.
5. Press  [OK] to save your setting.
• To cancel setting, press  to cancel.

Starting the MiniBrowser

Note

The first time you start the browser, you will be prompted to finish a security setup which will take several minutes to complete. Follow the on-screen messages to complete the setup.

The next time you access the Web page, you can skip this setup.

1. Press  [Browser] in Standby mode.
The charging reminder will be displayed, if applicable.
2. Press  [Yes] to start browsing.
 - To cancel browsing, press  [No].When connection to the Internet is established, the Top menu will be displayed. The menu contacts vary depending on the network service.
3. Press  [Browse MENU] to display the browser menu.
 - 1 Reload: Downloads the Web page last visited.
 - 2 Home: Opens the Web page you registered in the Advanced menu. (P.101)
 - 3 Bookmarks: Displays the Web sites (frequently visited Web pages) you registered. (P.106)
 - 4 Mark Site: Registers the current Web page displayed.
 - 5 About Openwave: Displays the information about the browser, etc.
 - 6 Advanced ...: Displays the advanced menus.

Advanced Menus

- 1 Show URL: Shows the URL of the current Web page displayed.
- 2 Homepage: Registers the URL of the homepage to be displayed when the browser is started.
- 3 Set UP. Link: Sets 1 or 2 (depending on your home network and its services).
- 4 Offline Service: Allows you to view the contents cached in the phone's memory.
- 5 Outbox: Allows you to view the contents of the messages, if the browser has the messages which will be uploaded to the server.
- 6 Restart UP. Browser: Restarts the browser immediately.
- 7 Encryption: (Use this menu only when your service provider asks you to.)

Exiting the MiniBrowser

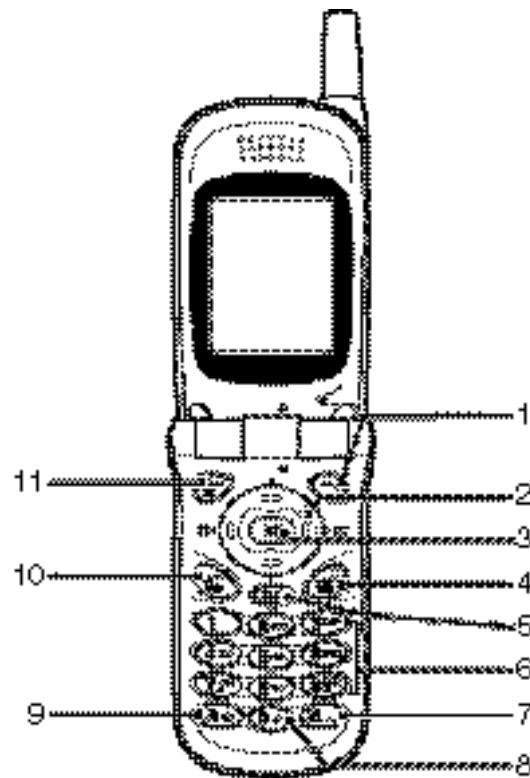
1. Press .
 - If “At End” or “Both” option has been set in the MiniBrowser menu ( [MENU]   ), you will be asked to exit the MiniBrowser.
2. Press  [Yes] to exit the browser.
 - To cancel exiting, press  [No].

Navigating the Web Sites

Key functions for navigating the Web sites are different from those used to make and receive calls.

Note

The Internet contents accessed by your mobile phone are different from those provided for a personal computer. They are limited to certain kinds of information.

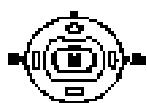


Key functions:



1. Right Soft Key:

- Use this key to execute the function displayed on the bottom right on the display.



2. Navigation Keys (Up/Down/Left/Right):

- Use these keys to switch menu items or select the MiniBrowser option. The currently selected item is highlighted.
- Use these keys to move the cursor when entering characters.
- Use these keys to scroll up or down on a page.



3. Browser Menu Key:

- Use this key to display the Browser menu while your phone is in Browser mode.



4. END Key:

- Use this key to exit the MiniBrowser and to return to Standby mode.



5. CLR Key:

- Use this key to display the previous Web page visited.
- Use this key to clear characters, numbers or symbols.
- Press and hold this key to clear all characters, numbers or symbols entered.



6. Numbered Keys (Digit Keys) 1 - 9:

- Use these keys to select the numbered items.



7. Pound/Space Key:

- Use this key to insert a space between characters.



8. 0/Next Key:

- Use this key to enter a zero.
- Use this key to move the cursor to the next cursor position in T9 mode.



9. Asterisk/Shift Key:

- Use this key to enter upper or lower case letters.



10. SEND Key:

- Use this key to receive a call.



11. Left Soft Key:

- Use this key mainly to select the highlighted item.
- Use this key to execute the function displayed on the bottom left on the display.

Entering Characters

When entering characters while the browser is running, the right soft key will display the current input mode:

alpha (alphabet) → Shift → Sym (symbols) → Num
(numbers) → Canned (canned messages) → Copy → Cut →
Paste → alpha ...

The basic method of entering characters is explained on page 81.

- The key works as a Shift key. Use this key when <alpha> is displayed.
- Press to enter a space in alpha mode.
- Press to enter 0 (return) in alpha mode.
- Canned messages can be edited in the Main menu. (P. 71)

Link

The Link menu helps you to jump to a linked (related) page and get more information concerning the topics you are searching for. Links embedded in the Web page are put in brackets ([...]). Press the left soft key to access the linked page when the link is highlighted.

When the Web page includes a telephone number as a link:
If the Web page you visited supports a calling feature from inside the Web page, you can make a call.
Press the left soft key ( [Call]) to dial, or press  to dial.

Bookmarks

The Bookmarks option helps you to store desired (or frequently used) pages (addresses) while you are visiting Web pages or sites and to access those pages or sites quickly by selecting Bookmarks from the Browser menu. It can save you time in accessing Web pages (sites).

Creating a Bookmark

1. Visit the page you want to bookmark.
2. Press  [Browse MENU] to display the browser menu.
3. Press  to select Mark Site.
When the page has a title, it will be automatically stored as a bookmark title; you can edit the title by using the Browser menu.
4. Press  [Save] to save the title.
The page will be saved with its title in the bookmark list and a message will be displayed to indicate that the bookmark was added to the list (at the bottom of the list).
5. Select  [OK] to return to the page bookmarked.

Accessing the Bookmarked Pages

1. Select [Bookmarks] from the browser menu.
2. Select the desired bookmark and press  [Search] or press and hold the digit key numbered to the bookmark title from the Bookmark's menu.

Your Phone's Menus

Main menu	Level 1	Level 2
1. Phone Book	1. Find Name 2. Find by Group 3. Find Entry # 4. One-touch Dial 5. My Phone # 6. Scratch Pad	
2. Calls	1. Call Logs 2. Call Info	1. Last Call 2. Recent Calls 3. All Calls
3. Sounds	1. Volume 2. Silent Mode 3. Ringer Type 4. Vibrator 5. Ringer Time 6. Alerts 7. Tone Length	1. Normal Ringer 2. Key Beep 3. Speech 4. Message 5. Alarm/Reminder 1. ON 2. OFF 1. Normal Ringer 2. Message Ringer 3. Alarm/Reminder 1. Normal Ringer 2. Message Ringer 3. Alarm/Reminder 1. Message Ringer 2. Alarm/Reminder 1. Fade Alert 2. Minute Alert 3. Service Alert 4. Privacy Alert 5. Wake-up/Good-bye Tone 6. MSG Reminder 1. Normal 2. Long

Main menu	Level 1	Level 2
4. Display	1. LCD Contrast 2. Backlight 3. Auto Hyphen 4. Banner 5. Graphics 6. Version	Level 1-9 1. Always OFF 2. 7 Seconds 3. 15 Seconds 4. 30 Seconds 5. Always ON 1. ON 2. OFF 1. Enter your Message 2. From Inbox Message 3. OFF 1. Wallpaper 2. Standby 3. Incoming Call 4. Custom 5. Alarm/Reminder 6. Wake-up
5. Security	1. Lock Mode 2. New Code 3. Emergency # 4. Erase All 5. Secret Memory 6. Reset	1. Lock ON Power Up 2. Lock Now 3. Unlock 1. Undefined 1 2. Undefined 2 3. Undefined 3 1. Phone Book 2. Call Logs 3. Messages 4. Custom Files 1. ON 2. OFF 1. OK 2. Cancel

Main menu	Level 1	Level 2
6. Setup/Tool	1. Memory Status 2. Calling 3. Voicemail 4. Message 5. Browser Prompt 6. Alarm 7. Set Clock 8. Input Mode	1. Auto Answer 2. Any Key Answer 3. Auto Retry 4. Voice Privacy 1. Callback # 2. Delivery ACK 3. Canned Message 1. Both 2. At Start 3. At End 4. No Prompts 1. Daily Alarm 2. Call Reminder 1. Standard 2. T9
7. System	1. Set Service 2. Force Mode 3. Data/Fax 4. Call Guard	1. Automatic 2. No Roaming 1. Automatic 2. Analog Call 1. Voice only 2. Data until Power Off 3. Fax until Power Off 1. ON 2. OFF
8. Custom Files	1. Graphics 2. Music	

Specifications

Telephone

Air interface:	Dual-Band CDMA and AMPS
Display Screen:	Color LCD
Battery Type:	950 mAh (3.7 V) Lithium-Ion
Antenna:	Fixed

TQ-CX1 (including the battery)

Dimensions (excluding RF cover and antenna)

(H x W x D): 3.6 x 2.0 x 1.1 inches (91.5 x 50 x 28.5 mm)

Weight: Less than 4.25 oz. (less than 119 g)

Talk Time: Up to 210 min. (digital)

Standby Time: Up to 150 hours (digital)

Talk Time: Up to 70 hours (analog)

Standby Time: Up to 15 hours (analog)

Note

- Specifications are subject to change or modification without notice and the current equipment is subject to update.
- Battery life depends on the usage of the phone.

Accessories

Standard

- Travel charger
- Li-Ion battery
- Operation manual (including a warranty and quick reference)
 - (For the phone)
 - (For the charger)
 - (For the battery)
- Holster
- Data cable
- Quick Start Guide For Mobile Phone Manager

Options

- Li-Ion battery (Model: XN-CBT10)
- Cigarette lighter adapter (Model: XN-CCL10)

Troubleshooting

The phone does not turn on.

- Check battery.
 - Keep metal contacts clean (P.18)
 - Insert properly. (P.15)
- Check battery level.
 - If it is low or exhausted, charge it immediately. (P.16)
 - If battery is old, replace it with a new one. (P.15)

Phone turns off automatically.

- Check battery level. (P.14)
 - If battery is exhausted, charge it immediately. (P.16)

Keys will not function.

- Check display message.
 - If phone is locked, only emergency calls are allowed.
Unlock phone in Main menu

Battery will not charge.

- Check battery.
 - Use only Sharp-approved battery designed for your phone.
 - If battery is old, replace it with a new one. (P.15)
- Check the recommended charging temperature range. (P.18)
- Check travel charger.
 - Connect it properly. (P.17)
 - Use only Sharp-approved charger designed for your phone.

Unable to make calls.

→ Check signal strength.

If signal is weak, move to a space where more signal strength lines will be displayed. (P.13)

→ Check phone number entered.

Enter correct number. (P.20)

→ Check Lock mode is set or not.

If the phone is set to Lock mode, unlock it. (P.62)

Unable to receive calls.

→ Check signal strength.

If signal is weak, move to a space where more signal strength lines will be displayed. (P.13)

Date and time are wrong.

→ Check clock setting.

Set them in Main menu. (P.76)

Drivers Safety Tips

Your wireless telephone gives you the powerful ability to communicate by voice --- almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When you drive a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

- 1. Get to know your wireless phone and its features such as speed dial and redial.** If available, these features help you to place your call without taking your attention off the road.
- 2. When available, use a hands-free device.** If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands-free accessories available today.
- 3. Position your wireless phone within easy reach.** Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
- 4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions.** Rain, sleet, snow, ice, and even heavy traffic can be hazardous.
- 5. Do not take notes or look up phone numbers while driving.** Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safety.
- 6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic.** Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
- 7. Do not engage in stressful or emotional conversations that may be distracting.** Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
- 8. Use your wireless phone to call for help.** Dial 911 or other local emergency number in the case of fire, traffic accident or medical emergencies. *Remember, it is a free call on your wireless phone!*
- 9. Use your wireless phone to help others in emergencies.** If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 911 or other local emergency number, as you would want others to do for you.
- 10. Call roadside assistance or a special non-emergency wireless assistance number when necessary.** If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

"The wireless industry reminds you to use your phone safely when driving."

Provided by the Cellular Telecommunications Industry Association

FDA Consumer Update

The U.S. Food and Drug Administration's Center for Device and Radiological Health Consumer Update on Mobile Phones

FDA has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones. The following summarizes what is known --- and what remains unknown --- about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radiofrequency energy (i.e., radiofrequency radiation) in the microwave range while being used. They also emit very low levels of radiofrequency energy (RF), considered non-significant, when in the stand-by mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate any adverse health effects associated with the use of mobile phones.

What kinds of phones are in question ?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna --- the primary source of the RF --- and the person's head. The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called "cordless phones," which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that hand-held mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are on-going. The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. As few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones. First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies that showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously --- up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

1. In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or acoustic neuroma (a benign tumor of the nerve sheath). No statistically significant association was found between mobile phone use and acoustic neuroma. There was also no association between mobile phone use and gliomas when all types of gliomas were considered together. It should be noted that the average length of mobile phone exposure in this study was less than three years.

When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of gliomas, neuroepitheliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually *decreased* with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results.¹

2. Researchers conducted a large battery of laboratory tests to assess the exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any

effect of the RF except for the micronucleus assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus, follow-up research is necessary.²

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

1. Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function tests. There were no changes in the subject's ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only changes noted among more than 20 variables compared.³
2. In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used. Because this occurred on only a small number of cases, the increased likelihood was too small to be statistically significant.⁴

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1. Muscat et al. Epidemiological Study of Cellular Telephone Use and Malignant Brain Tumors. In: State of the Science Symposium; 1999 June 20; Long Beach, California.
 2. Tice et al. Tests of mobile phone signals for activity in genotoxicity and other laboratory assays. In: Annual Meeting of the Environment Mutagen Society; March 29, 1999, Washington, D.C.; and personal communication, unpublished results.
 3. Preece, AW, Iwi, G, Davies-Smith, A, Wesnes, K, Butler, S, Lim, E, and Varey, A. Effect of a 915-MHz simulated mobile phone signal on cognitive function in man. Int. J. Radiat. Biot., April 8, 1999.
 4. Hardell, L, Nasman, A, Pahlson, A, Hallquist, A and Mild, KH. Use of cellular telephones and the risk for brain tumors: a case-control study. Int. J. Oncol., 15: 113-116, 1999

In summary,, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems associated with use of mobile phones. FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of hand-held mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones. In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people each year. At that rate, assuming 80 million uses of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately people without brain cancer.

This is called a case-control study. The current case-control study of brain cancers by the National Cancer Institute, as well as the follow-up research to be sponsored by industry, will begin to generate this type of information.

What is FDA's role concerning the safety of mobile phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as mobile phones before marketing, as if it does with new drugs or medical devices. However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of mobile 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 at this time, FDA has urged the mobile phone industry to take a number of steps to assure public safety. The agency has recommended that the industry:

- support needed research into possible biological effects of RF of the type emitted by mobile phones;
- design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health.

At the same time, FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure a coordinated effort at the federal level. These agencies are:

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

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

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 people are concerned about avoiding even potential risks, there are simple steps they can take to do so. For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones could consider holding lengthy conversations on conventional phones and saving the hand-held models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the exposure level drops off dramatically with distance. For example, they could switch to:

- a mobile phone in which the antenna is located outside the vehicle,
- a hand-held phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package, or
- a headset with a remote antenna to a mobile phone carried at the waist.

Again, the scientific data do not demonstrate that mobile phones are harmful. But if people are concerned about the radiofrequency energy from these products, taking the simple precautions outlined above can reduce any possible risk.

Where can I find additional information?

For additional information, see the following websites:

Federal Communications Commission (FCC) RF Safety Program (select "Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters"): <http://www.fcc.gov/rfsafety/>

World Health Organization (WHO) International Commission on Non-Ionizing Radiation Protection (select Qs & As): <http://www.who.int/emf>

United Kingdom, National Radiological Protection Board: <http://www.nrpb.org.uk>

Cellular Telecommunications Industry Association (CTIA): <http://www.wow-com.com>

U.S. Food and Drug Administration (FDA) Center for Devices and Radiological Health: <http://www.fda.gov/cdrh/consumer/>

Exposure to Radio Waves

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 radio frequency (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 1.6W/kg.* Tests for SAR are conducted using standard operating positions specified by the FCC 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 _____ and when worn on the body, as described in this user guide, is _____. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). SAR value shown is worst case value for a

TQ-CX1. A typical TQ-CX1 is ____ at the ear and ____ when worn on the body. 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 emission 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 FCC ID APYHRO00022.

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

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

Patent Information

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5,506,865 5,109,390 5,511,073 5,228,054 5,535,239
5,267,261 5,544,196 5,267,262 5,568,483 5,337,338
5,600,754 5,414,796 5,657,420 5,416,797 5,639,569
5,710,784 5,778,338

“T9 Text Input is covered by U.S.pat. 5,818,437, U.S. Pat. 5,953,541, U.S. Pat. 6,011,554 and other patents pending”