

cricket

A100 User Guide

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Safety

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.

Switch on safely

must be in the Do not switch the device on when wireless phone use is prohibited or when it may cause interference or danger.

Road safety comes first

Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.

Interference

All wireless devices may be susceptible to interference, which could affect performance.

Switch off in restricted areas

Follow any restrictions. Switch the device off in aircraft, near medical equipment, fuel, chemicals, or blasting areas.

Qualified service

Only qualified personnel may install or repair this product.

Enhancements and batteries

Use only approved enhancements and batteries. Do not connect incompatible products.

Water-resistance

Your device is not water-resistant. Keep it dry.

About your device

The wireless device described in this guide is approved for use on the CDMA 800, 1700, 1900 and 2100 MHz networks. Contact your service provider for more information about networks.

When using the features in this device, obey all laws and respect local customs, privacy and legitimate rights of others, including copyrights.

Copyright protection may prevent some images, music, and other content from being copied, modified, or transferred.

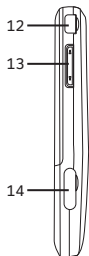
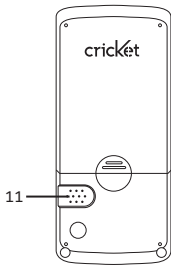
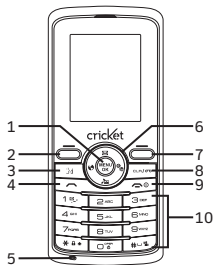
Warning: To use any features in this device, other than the alarm clock, the device must be switched on. Do not switch the device on when wireless device use may cause interference or danger.

Remember to make back-up copies or keep a written record of all important information stored in your device.

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.

Before using your phone

Handset description



1. Menu/Ok key
2. Settings menu
3. Voice command key
4. Send key
5. Microphone

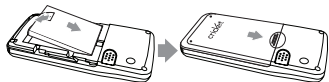
6. Navi key
7. Contacts menu
8. CLR key
9. End key
10. Numeric keypad

11. Speaker
12. Headset port
13. Side volume keys
14. Charger port

Battery usage

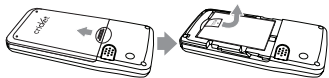
Battery installation

1. Place the battery (label side up) on the back of the phone so the metal contacts match up on the battery and in the battery cavity.
2. Slide the battery down into the battery cavity until it locks into place.



Battery removal

1. Push down the release latch button, then slide the battery cover off the phone.
2. Pull up battery strap and out of the battery cavity from the top of the battery.

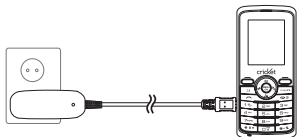


note If the battery is not correctly placed in the compartment, the handset will not turn on and/or the battery may detach during use.

Battery charging

Power connection

1. Plug the AC Charger into a standard outlet.
2. Plug the other end of the AC Charger into the charging port on your phone. The battery must be installed onto the phone to work properly.



hot key

- When you charge the battery with the phone power off, you will see a charging status screen. You cannot operate the phone until it is powered on.

- The battery is not charged at the time of purchase.
- Fully charge the battery before use.
- It is more efficient to charge the battery with the handset powered off.
- The battery must be connected to the phone in order to charge it.
- Battery operating time gradually decreases over time.
- If the battery fails to perform normally, you may need to replace the battery.
- Completely drain the battery before recharging. It may take one to four days to completely drain.
- Store the discharged battery in a cool, dark, and dry place.
- Purchase a new battery when its operating time gradually decreases after fully charging.
- Properly dispose of the battery according to local laws.

Don'ts

Battery handling information

Do's

- Only use the battery and charger approved by the manufacturer.
- Only use the battery for its original purpose.
- Try to keep batteries in a temperature between 41°F (5°C) and 95°F (35°C).
- If the battery is stored in temperatures above or below the recommended range, give it time to warm up or cool down before using.
- Don't attempt to disassemble the battery – it is a sealed unit with no serviceable parts.
- Don't accidentally short circuit the battery by carrying it in your pocket or purse with other metallic objects such as coins, clips and pens. This may critically damage the battery.
- Don't leave the battery in hot or cold temperatures. Otherwise, it could significantly reduce the capacity and lifetime of the battery.
- Don't dispose of the battery into a fire.

Basic operation

Turning the phone on/off

Turning the phone on

1. Press the END Key until your “cricKet” logo appears and the tone sounds.

note

- If “Password” appears on the display enter your 4-digit password to unlock your phone.
- The default password is the last 4 digits of your phone number.

Turning the phone off

1. Press and hold the END Key until your “cricKet” logo appears.

note

- Immediately change or recharge the battery when “Powering down phone now. Please recharge” appears on the display. Memory may possibly be damaged if the phone turns off due to the battery completely draining.
- Turn the phone off before removing

or replacing the battery. If the phone is on, unsaved data may be lost.

Accessing the menu

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

1. To access the menu in the idle mode, press the OK Key **Menu**.
2. Press the Navigation Key left or right to scroll through the menu items. Press the Navigation Key up or down to scroll through the sub-menus for each menu item.
3. To return to the previous page, press the Clear Key. To exit the current menu and return to the idle mode, press the END Key.
4. Press the OK Key to enter a function when its main page is displayed or press its assigned number to have direct access to the function.

note

- Navigation Key up : Messages
- Navigation Key down : Multimedia
- Navigation Key left : Browser
- Navigation Key right : Games&Apps

Accessing the menu map

1. Recent Calls

1. All Calls
2. Missed Calls
3. Incoming Calls
4. Outgoing Calls
5. Call Timers

2. MESSAGES

1. Send Message
2. Inbox
3. Outbox
4. Drafts
5. Voicemail
6. Settings

3. Contacts

1. Find
2. Add New Entry
3. Speed Dials
4. Group
5. Service Number
6. My Phone Number

4. Multimedia

1. My Images
2. My Sounds

5. Browser

6. Games & Apps

7. Tools

1. Schedule
2. Alarm
3. World Time
4. Memo Pad
5. Calculator
6. Tip Calculator
7. Stop Watch
8. Unit Converter

8. Voice Service

1. Voice Command
2. V.Cmd Settings
3. Voice memo

9. Settings

1. Display
2. Sounds
3. Call
4. Security
5. Others
6. Phone Info

Basic functions

Making a call

1. Enter a phone number.

note To modify the phone number you have entered :

- To erase one digit at a time press the Clear Key.
 - To erase the entire number, press and hold the Clear Key.
2. Press the SEND Key.

note

- If “CALL FAILED” appears on the display or the line is busy, press the SEND Key or the END Key.
- If you activate the “AUTO RETRY” function, the phone will automatically retry for the number until you

select the End key.

- When you place or receive a call from stored phone numbers, only the name will be displayed.
 - If “Please enter lock code” appears on the display enter your 4-digit password to unlock your phone.
 - Your default password is the last 4 digits of your phone number.
3. To end a call, press the END Key.

Call Answer

1. When your phone rings or vibrates, press the SEND Key to answer the incoming call. (Depending on your phone’s settings, you may also answer incoming calls by opening the phone or by pressing any digit key. See page 33 for details.)

note To reject incoming calls, press the Right Soft Key **Reject**.

2. To end a call, press the END Key.

Wait/pause feature

Pauses are used for automated systems (i.e., Voicemail, calling cards).

Insert a pause after a phone number then enter another group of numbers. The second set of numbers is dialed automatically after the pause. This feature is useful for dialing into systems that require a code.

1. To insert a wait/pause, enter a phone number then press the Right Soft Key **Options**. Select either a Type ‘P’ (“P” appears) or a Type ‘T’ (“T” appears).

note

- Type “P”: A hard pause stops the calling sequence until further input from you.
 - Type “T”: A two second pause stops the calling sequence for two seconds and then automatically send the remaining digits.
2. Press the SEND Key to dial or Left Soft Key **Save** to save the number.

3-way calling

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

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

note 3-way calling is a system dependent feature. Please contact your service provider for details.

Caller ID function

Identifies caller by displaying their phone number. If the caller's name and number are already stored in your phone book, their name will appear. This is a system dependent feature.

Please contact your service provider for details.

Call waiting function

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

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

note Call Waiting is a system dependent feature. Please contact your service provider for details.

Adjusting volume

1. During a call, press Side Volume Key up or down to adjust the earpiece volume.

During a call

1. Press the Left Soft Key **Mute**.
 - **Mute (Unmute)** : If you press Mute

during a call, the person you are speaking with cannot hear you or any sounds from your side of the conversation. However, you can still hear them. To activate Mute during a call.

note

- To deactivate, press the Left Soft Key **Unmute**.
 - The phone will automatically unmute in Emergency Call or Callback Mode.
2. Press the Right Soft Key **Options**.
- **3 Way Calls** : To call a second party during a call, dial the number or select it from the directory by accessing the menu during a call.
 - **Voice Memo** : To record a voice memo during a call.
 - **Call History** : To select a phone number from your Recent Calls List during a call.
 - **Contacts** : To view a phone number from your Contact list during a call.

- **Messaging** : To send a text message (SMS) during a call.

Making an emergency call

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

911 in lock mode

The 911 call service is available even in Lock Mode.

1. Enter "911", then press the SEND Key.
2. The call connects.
3. When the call ends, the phone returns to Lock Mode.

911 using any available system

1. Enter "911", then press the SEND Key.
2. The call connects.

3. The phone maintains the Emergency Mode and the phone can receive an incoming call from any available system. However, it can't make a call.

Memory function

Storing a phone number

The phone book stores up to 500 entries.

1. Enter phone number then press the Left Soft Key **Save**.
2. Select "New entry" or "Existing entry".
3. If "Existing entry" is selected, your contact list is displayed. Choose the entry to add the number, then press Left Soft Key **Done**. Select the type of Phone you are adding from the icon list, then press Left Soft Key **Select**. Press Left Soft Key **Save**. Press the Navigation Key up or down to select primary phone number, then press Left Soft Key

Select to save contact.

If "New entry" is selected, the New entry icon list appears. Press the Navigation Key up or down to choose the type of Phone you are adding. Press Left Soft Key **Select** to select. Enter a name. To change the input mode, press Right Soft Key **Options**. Press the Navigation Key down to enter information in other fields for the contact. Fields include "Name", "Mobile", "Phone number", "Email address", "URL", "Group", "Ringtone", "Msg alert", "Secret", "Memo".

4. To store the entry in your contact list, press the Left Soft Key **Save**. "Saved" will be displayed.

Entering letters, numbers & symbols

The input mode will automatically be activated when it is necessary to enter letters and numbers. There are 5 available modes: Standard Alphabet mode [Abc], T9 Mode [T9Word], Numeric

mode [123], Symbol mode [Symbols] and Emoticon mode [Emoticon]. The input mode indicator appears on the lower portion of the display when letters and numbers are entered. To select the desired input mode, press the Right Soft Key **Options**, then choose from the list on screen.

- Standard input mode : Use the digit keys to enter letters, numbers and characters.
- T9 input mode : T9 mode incorporates a built-in-dictionary to determine a word based on the entered characters. A word can be entered more quickly by pressing each key once per character.
- Number mode : Allows you to enter numbers.
- Symbol mode : Allows you to enter symbols.
- Emoticon mode: Allows you to enter Emoticon.

Making a call through the contact list

One-touch/two-touch dialing

Ideal for frequently dialed numbers, this feature allows entries in your contact list to be dialed via the keypad with only one or two key presses. In order for One-Touch/Two-Touch Dialing to properly work, it must be enabled.

One-touch dialing

2-9: Press and hold the corresponding memory number for more than 1 second.

Two-touch dialing

10-99: Press and the first digit and second digits of the memory number short and long respectively.

note

- If no phone number is stored in the location entered, "Speed dial is empty" will appear on the screen.
- If One Touch Dial is set to Off: Enter the speed dial location number then press the SEND Key.

- Location 1 is reserved for voicemail. Location 2-99 are unassigned. To assign a speed dial location, please see page 21.

Recent calls

All calls

1. Press the OK Key **Menu > Recent Calls > All Calls**. If the number is already stored in your contact list, only the name appears. If the number is not stored, the number appears.
2. To view details, press the OK Key.

note After the 240th missed, incoming or outgoing calls, the oldest call will automatically be erased from the history.

Missed calls

1. Press the OK Key **Menu > Recent Calls > Missed Calls**. If the number is already stored in your contact list, only the name appears. If the

number is not stored, the phone number appears.

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

note After 80 missed calls, the oldest call will be automatically erased from the history.

Incoming calls

1. Press the OK Key **Menu > Recent Calls > Incoming Calls**. If the number is already stored in your contact list, only the name appears. If the number is not stored, the number appears.
2. To view incoming call details, press the OK Key.

note After 80 incoming calls, the oldest call will automatically be erased from the history.

Outgoing calls

1. Press the OK Key **Menu > Recent Calls > Outgoing Calls**. If the number is already stored in your

contact list, only the name appears. If the number is not stored, the number appears.

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

note After 80 outgoing calls, the oldest call will automatically be erased from the history.

Call timers

Checks the usage time and manages your calls within the limit you set. The 11 timers include (Last Call, Dialed Calls, Received Calls, Home Calls, Roam Calls, All Calls, Lifetime Calls, Transmit Kb, Received Kb, Total Kb, Lifetime Data Counter, Last Reset):

1. Press the OK Key **Menu > Recent Calls > Call Timers**.
2. To reset all timers, press the Right Soft Key **Reset All**. "Reset all?" will be displayed. Select "Yes" and press the OK Key.

Messages

Send message

To send a new message:

1. Press the OK Key **Menu > Message > Send Message**.
2. Under "Send To", input the phone number. Press the Left Soft Key **Next**.
 - Press Right Soft Key **Options**. (Recent Calls, Contacts, Group Lists, Entry Mode)
3. Under "Enter Msg.", input your message.
 - Press Right Soft Key **Options**. (Preset Msgs., Entry Mode, Save As Draft, Save As Preset, Add To Contacts, Delivery, Cancel Msg.)
4. To send the message, press the Left Soft Key **Send**.

Inbox

The Inbox manages received text/web alert messages. To access:

1. Press the OK Key **Menu > Messages > Inbox**.
2. To delete a message, press the Left Soft Key **Erase**, then select “Yes” and press the OK Key. To delete all messages, press the Right Soft Key **Erase All**, then select “Yes” and press the OK Key.
3. Select a message, then press the OK Key. The message is displayed. Press the Left Soft Key **Reply**, to send the reply message.

Outbox

Manages sent messages.

1. Press the OK Key **Menu > Messages > Outbox**.
2. To delete a message, press the Left Soft Key **Erase**, then select “Yes” and press the OK Key. To delete all messages, press the Right Soft Key **Erase All**, then select “Yes” and press the OK Key.
3. Select a message, then press the OK Key. The message is displayed.

Press the Left Soft Key **Erase** to erase the selected message.

- Press Right Soft Key **Options**. (Forward, Save As Draft, Save Contact)

Drafts

Draft Folder contains any draft messages or saved messages. If message composition is interrupted by a voice call or other interrupting event, the text of the current composition is automatically saved in the drafts folder.

1. Press the OK Key **Menu > Messages > Drafts**.
2. Select a message then press the OK Key.
 - Press Right Soft Key **Options**. (1. Forward, 2. Save Contact, 3. Erase, 4. Edit)
3. To send the message, press the Left Soft Key **Send**.

Voicemail

Voicemail allows callers to leave voice

messages in your voice mailbox, and lets you review, play, and delete your voice messages any time you are in your Carrier's network coverage area.

1. Press the OK Key **Menu > Messages > Voicemail**. Call Voicemail.

or

Press the OK Key **Send** to dial voicemail. From the idle screen, press then the SEND Key **Send** to direct dial voicemail. If the feature "Speed Dial" is enabled you can press and hold to speed dial voicemail.

Call Voicemail

Place a call to the number (*99) the voicemail was sent to.

1. Press the OK Key **Menu > Messages > Voicemail > Call Voicemail**.

Details

View last voicemail information.

1. Press the OK Key **Menu > Messages > Voicemail > Details**.

Clear Notification

Delete the voicemail icon.

1. Press the OK Key **Menu > Messages > Voicemail > Clear Notification**.

Settings

1. Press the OK Key **Menu > Messages > Settings**.

- Notification : To set a notification. Select "Msg. & Icon" or "Icon Only".
- Auto Save : Select if you want to automatically save a message after sending it. Select "Auto Save", "Prompt" or "Do Not Save".
- Auto Erase : Automatically erases Inbox messages when new messages arrive. Select "On" or "Off".
- Auto View : To set Auto View. Select "On" or "Off".
- Entry Mode : To change the text input mode. Select "T9Word", "Abc", "ABC" or "123".

- **Callback # :** Allows you to input a specific callback number. Callback numbers are used in text messaging so the other party knows how to get back to you. Select "None", "MDN" or "Custom" .
- **Voicemail # :** To set your voicemail number. Enter the desired voicemail access number. (Default setting is *99)
- **Signature :** To create a signature that can be automatically inserted at the end of a text message. Select "None" or "Custom" then press Left Soft Key **Set** to save the setting. If you select "Custom", the signature input screen appears.
- **Preset Msgs. :** The preset messages are displayed.

Contacts

Find

Retrieves an entry by name and calls the primary number by simply pressing the SEND Key. You can review all

the entries stored in your contacts list or quickly find an entry by entering a name or its character string.

1. Press the OK Key **Menu > Contacts > Find.**
2. The list of names in your contacts is displayed alphabetically.
3. Enter a name or its character string or scroll through the list by pressing the Navigation Key up or down.

Add new entry

You can add new entry when you need. Please check next process.

1. Press the OK Key **Menu > Contacts > Add New Entry.**
2. Fill in the fields as they are selected. Press the Navigation Key up or down to select a field.
 - **Phone book fields :** Name , Phone number (Mobile, Office, Home, Pager, Other), Email address, URL, Group (No Group, Family, Friends, Work), Ringtone, Msg alert, Secret, Memo

note See page 14 for more detailed information about storing a number.

Speed dials

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

note Speed Dial must be activated.

1. Press the OK Key **Menu > Contacts > Speed Dials.**
 2. To assign a phone number to a location, select the location then press the Left Soft Key **Assign.**
- note** “empty” appears if the location is available.
3. Scroll to the contact in the list.
 4. If more than one number exists for the contact, press the Navigation Key left or right to select the phone number for the speed dial location. The numbers will be displayed above the contact list.

5. Press the Left Soft Key **Done** to set the speed dial location.

- Press Right Soft Key **Options.**
(Send msg., Prepend, Erase)

Group

Allows you to classify phone entries into groups. Existing groups include No Group, Family, Friends, Work.

Add new group

1. Press the OK Key **Menu > Contacts > Group.**
 2. Press the Left Soft Key **Add** to add a new group name.
 3. Input a new group name.
 4. To save it, press the Left Soft Key **OK.**
- Press Right Soft Key **Options.**
(Ringtone, Add Member, Rename, Remove Member, Remove All, Erase)

Change group name

1. Press the OK Key **Menu > Contacts > Group.**
2. Select an existing group name. Only groups you created can be renamed.
3. Press the Right Soft Key **Options**, then scroll to "Rename," press the OK Key.
4. Input a new group name.
5. Press the Left Soft Key **OK** to save the setting.

Service number

Your Contacts list is preprogrammed with contact numbers for various services.

1. Press the OK Key **Menu > Contacts > Service Number.**
2. Select the number (Info "411" / Cust. Svc. "611" / Cust. Care ""611" / *PAY ""729") then press the OK Key.
3. Press the SEND Key to call.

My phone number

Displays your phone number.

1. Press the OK Key **Menu > Contacts > My Phone Number.**
2. Your phone number will be displayed.

Multimedia

My images

This menu displays the list of downloaded still images.

1. Press the OK Key **Menu > Multimedia > My Images.**
2. Scroll through the downloaded images to display the image.

My sounds

This menu displays the list of downloaded ringtones.

1. Press the OK Key **Menu > Multimedia > My Sounds.**
2. Scroll through the downloaded ring-

tones to display the ringtone you want .

Browser

The browser menu lists the actions necessary to operate the browser. To access the browser menu.

1. Press the OK Key **Menu > Browser**.

Browser menu

- Home : When the “Home” item is selected from the Browser Menu, the phone displays the homepage.
- Back : When the “Back” item is selected from the Browser Menu, the phone displays the previous page in the history.
- Forward : When the “Forward” item is selected from the Browser Menu, the phone displays the next page in the history. This is only available if the user has navigated backward in the history.
- Reload : Selecting the “Reload” item

from the Browser Menu refreshes the current page.

- Mark Page : To save the page as a bookmark. Press the OK soft key to save current website address.
- Go To URL : Allows you to manually enter the URL address of a WAP site. After entering an address, press the OK soft key to go there directly.
- Search : Takes user to the OPEN-WAVE Search page.
- Exit : When the “Exit” item is selected from the Browser Menu, the user exits out of the browser and is returned to the phone idle mode.

Games & Apps

Games & Apps is a fun collection of features which you can access directly from your phone - download games and more. Charges apply.

1. Press the OK Key **Menu > Games & Apps**.

2. You will see 3 icons - "Games & Apps", "Settings", "Help". If you want to download games or etc., select "Games & Apps" and press the OK Key.
 3. Select from "Catalog" and press the OK Key. The server will launch. Browse through the catalog and press the OK Key to select an application and price plan. Then follow the prompts to download the application. Repeat this process for each additional application.
 4. To exit "Games & Apps", press the END Key.
2. Press the Navigation Key to choose a date in the calendar, then press the Left Soft Key **Add**.
 3. The "Add New" screen will be displayed.
 - Title : Enter the event name.
 - Start date : You can edit the start date for the event.
 - Start time : Enter the start time. Press the Right Soft Key for **am** or **pm**.
 - End date : You can edit the end date for the event.
 - End time : Enter the end time. Press the Right Soft Key for **am** or **pm**.
 - Contents : Enter any notes for the event.
 - Notice : Enter when the alert should sound for the event (On time, Before 10min, Before 20min, Before 1 hour, Before one day).
 - Snooze" field, set the snooze time (5 min, 10 min, 15 min, 20 min).
 - Ring Type : Press the OK Key to select a ringer for the event.

Tools

Schedule

Sets an event and reminds you of that event.

Add new calendar

1. Press the OK Key **Menu > Tools > Schedule**.

Press the Left Soft Key **Set** when the ringer is selected.

4. Press the Left Soft Key **Save** to save the event or the Clear Key to return to the calendar.
5. The date of the event will be marked on your calendar.

View added calendar

1. Press the OK Key **Menu > Tools > Schedule**.
2. Scroll to a date in the calendar and press the OK Key to view the event for that day.
3. Press the OK Key **View** to see the details for the event.
 - Press Right Soft Key **Options**. (Add new, Go to Date, Erase, Erase All)

Press the Left Soft Key **Edit** to edit the event, then press the Left Soft Key **Save** to save the event.

Alarm

1. Press the OK Key **Menu > Tools >**

Alarm.

2. Select Alarm #1, 2 or 3 to set a new alarm. To edit an existing alarm, select the alarm name. Press the OK Key.
3. To save an alarm setting press the Left Soft Key **Save**.
 - Set: Press the Navigation Key left or right to select alarm "On" or "Off".
 - Time: Use the keypad to set a time for the alarm and the Right Soft Key to select **am** or **pm**.
 - Repeat: Press the Navigation Key left or right to select "Daily", "Once", "Mon to Fri" or "Sat to Sun".
 - Snooze: Press the Navigation Key left or right to select "5 min", "10 min", "15 min" or "20 min".
 - Ring Type: Press the OK Key to select a ringtone for the alarm sound.

World time

1. Press the OK Key **Menu > Tools > World Time**.
2. The world map appears with the city, its date and time. Press the Navigation Key left or right to select another city.
 - DST: Press the Left Soft Key **DST**, specifies whether the current time of the selected place is adjusted to Daylight Savings Time.
 - Dual: Press the Right Soft Key **Dual** to set dual time.

Memo pad

Your phone includes an internal Memopad that can be used to compose and store reminders and Memos.

Add new memo

To compose a memo:

1. Press the OK Key **Menu > Tools > Memo Pad**.
2. To add a new memo, press the Left Soft Key **Add**. Input a new text

memo.

3. To save memo, press the Left Soft Key **Save**.

View memo

To view a saved memo:

1. Press the OK Key **Menu > Tools > Memo Pad**.
2. The Memopad list of memos is displayed in the order they were saved. To add a new memo, press the Left Soft Key **Add**.
 - Highlight a memo and press the Right Soft Key **Options**. (Erase, Erase All)
3. To view a memo, highlight it and press the OK Key. Press the Right Soft Key **Erase** to erase the memo or press the Left Soft Key **Edit** to edit the text, then press the Left Soft Key **Save** to save the changes.

Calculator

To access the calculator:

1. Press the OK Key **Menu > Tools >**

Calculator.

2. Enter the number using your keypad and perform one of the following functions:
3. Enter the numerical formula and then press the OK Key for Equals (=).
4. To reset, press the Clear Key or press the Right Soft Key **Clear**.

Tip calculator

To access the Tip calculator:

1. Press the OK Key **Menu > Tools > Tip Calculator**.
2. Enter the amount of your "Bill" and move the next field "Rate".
 - Press the Left Soft Key **Point(.)** for to enter a decimal point.
3. Enter the percentage amount to "Rate" and move the next field "# of people".
4. Enter the amount of "# of people" number. Press the OK Key to calculate the result.

- Press the Right Soft Key **Erase**.

Stop watch

To access the Tip calculator:

1. Press the OK Key **Menu > Tools > Stop Watch**.
2. Press Left Soft Key **Start** to start the stopwatch.
3. Press Left Soft Key **Lap** to save Lap time and start counting another. Recently twenty Laps can be record.
4. Press Right Soft Key **Stop** to stop the stopwatch.
5. Press Right Soft Key **Reset** to reset the stopwatch.

Unit converter

To access the Tip calculator:

1. Press the OK Key **Menu > Tools > Unit Converter**.
2. Select the desired type of measurement, and then press the Down Key. (Length, Weight, Volume, Area, Temperature, Speed)

Voice service

Voice command

To use Voice Command:

1. Press the OK Key **Menu** > **Voice Service** > **Voice Command**.

- **CALL** <NAME OR #> : Use the Call command to voice dial a name from your Phonebook list or a phone number. When dialing a number, pronounce each digit, but do not pause noticeably between the digits.
- **LOOKUP** <NAME> : Use the Lookup command to retrieve and display information for any name stored in your Phonebook Entry list.
- **CHECK** <ITEM> : The Check command lets you check status information for your phone. You can say “Check” or “Check Status” to see and hear all status information.

- Press the Left Soft Key **Tutorial**. Voice Commands menu information appears. To return to the previous page, press the Left Soft Key **Skip**.
- Press the Right Soft Key **Settings**. (Confirmation, Adaptation, Audio Modes, About)

V.Cmd settings

1. Press the OK Key **Menu** > **Voice Service** > **V.Cmd settings**.

- **Confirmation** : You can control when the system asks you to confirm a name or number. You can adapt the system to your voice for optimal recognition accuracy. During adaptation, the system will prompt you to speak a series of short phrases. If you need to erase adaptation data and set the system back to the factory default, select Reset Voice.
- **Adaptation** : You can adapt the system to your voice for optimal recognition accuracy. During adaptation, the system will prompt you to speak

a series of short phrases. If you need to erase adaptation data and set the system back to the factory default, select Reset Voice.

- **Audio Modes** : You can control the level of audio guidance provided by the system. In prompt mode (the default), the system prompts for required information. In read-out mode, the system prompts for required information and reads out the contents of the screen. In expert mode, audio guidance is provided by beeps only.
- **About** : It's shown a Vsuite information.

Voice memo

Voice Memo allows you to record a reminder message that can be up to 4 minutes.

1. Press the OK Key **Menu** > **Voice Service** > **Voice Memo**.
2. To record a voice memo, press the Left Soft Key **Record**.

3. To start recording a voice memo, press the OK key **Record** button and if you want to stop recording, press the OK Key **Stop** button and to save your voice memo, press the OK Key **Save** button one more time.
4. To play voice memo, select the voice tag you want to play then press the OK Key.
 - Press the Left Soft Key **Options**. (Rename, Erase, Erase All, Information)

Settings

Display

Menu style

To select how the Menu appears on your phone:

1. Press the OK Key **Menu** > **Settings** > **Display** > **Menu Style**.
2. Select "Icon" or "List".

3. Press the Left Soft Key **Set** to save the setting.

Wallpaper

1. Press the OK Key **Menu > Settings > Display > Wallpaper**.
2. Select “Preset Images” or “My Images”.
3. Press the Navigation Key up or down to scroll through the images.
4. Press the Right Soft Key **View** to view the image full screen. Press the Left Soft Key **Set** to save the image as your wallpaper.

Clock Format

1. Press the OK Key **Menu > Settings > Display > Clock Format**.
2. Select “Analog Clock”, “Dual Time Clock”, “Calendar” or “Digital Clock”.
3. Press the Left Soft Key **Set** to save the setting.

Incoming Calls

1. Press the OK Key **Menu > Settings > Display > Incoming Calls**.
2. Select “Preset Images” or “My Images”.
3. Press the Navigation Key up or down to scroll through the images.
4. Press the Right Soft Key **View** to view the image full screen. Press the Left Soft Key **Set** to save the image as your images.

Banner

1. Press the OK Key **Menu > Settings > Display > Banner**.
2. Select “On” or “Off”.
3. Press the Left Soft Key **Set** to save the setting.

Backlight

1. Press the OK Key **Menu > Settings > Display > Backlight**.
2. Select “Display”, “Keypad” or “Charger”.

- Display : 7 Sec, 15 Sec, 30 Sec, Always On, Always Off
 - Keypad : 7 Sec, 15 Sec, 30 Sec, Always On, Always Off
 - Charger : 7 Sec, 15 Sec, 30 Sec, Always On, Always Off
3. Press the Left Soft Key **Set** to save the setting.

Contrast

1. Press the OK Key **Menu > Settings > Display > Contrast.**
2. Select "1", "2", "3", "4" or "5".
3. Press the Left Soft Key **Set** to save the setting.

Sounds

Ring tone

To select how the Menu appears on your phone:

1. Press the OK Key **Menu > Settings > Sounds > Ring Tone.**
2. Select "Voice Call", "Messages" or "Voice Mail".

- Preset Sounds: Select ring tone.
 - My Sounds: Select download Ringer.
3. Press the Left Soft Key **Set** to save the setting.

Volume

To select how the Menu appears on your phone:

1. Press the OK Key **Menu > Settings > Sounds > Volume.**
 - Voice Calls : To adjust voice calls volume.
 - Speakerphone : To adjust Speakerphone volume.
 - Earpiece : To adjust earpiece volume.
 - Headset : To adjust Headset volume.
 - Message : To adjust message volume.
 - Alarms & Schedule : To adjust alarms & schedule volume.
 - Key Tone : To adjust key tone volume.

2. Select one of the following settings by pressing the Navigation Key left or right .
3. Press the Left Soft Key **Select > set** to save the setting.

Alerts

1. Press the OK Key **Menu > Settings > Sounds > Alerts.**
 - Minute Beep : Sounds an alert every minute during a call.
 - Roaming : Sounds an alert when leaving a service area and entering a roaming service area.
 - Call Connect : Notifies you that a call has been successfully placed.
 - Power On/Off : To set phone to sound a tone when the phone is powered on/off.
2. Select "On" or "Off".
3. Press the Left Soft Key **Select > set** to save the setting.

Tone length

1. Press the OK Key **Menu > Settings > Sounds > Tone Length.**
2. Select "Short" or "Long".
3. Press the Left Soft Key **Select > set** to save the setting.

Call

Contacts match

This function will match your abbreviated dialed number with an entry from your phone's contact list. So when you press a Send key after you dial the 4 digits, your phone will show the name of the contact you are dialing as well as the phone number.

1. Press the OK Key **Menu > Settings > Call > Contacts Match.**
2. Select "On" or "Off".
3. Press the Left Soft Key **Set** to save the setting.

Call answer

To select an answer mode:

1. Press the OK Key **Menu** > **Settings** > **Call** > **Call Answer**.
2. Select "Talk Key" or "Any Key".
3. Press the Left Soft Key **Set** to save the setting.

Auto retry

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

1. Press the OK Key **Menu** > **Settings** > **Call** > **Auto Retry**.
2. Select "On" or "Off".
3. Press the Left Soft Key **Set** to save the setting.

TTY mode

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

1. Press the OK Key **Menu** > **Settings** > **Call** > **TTY Mode**.
2. Read the message, then press the Left Soft Key **Next**.
3. Select "TTY + Full", "TTY + Talk", "• TTY + Hear" or "TTY Off".
4. Press the Left Soft Key **Set** to save the setting.

Security

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

Phone lock

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

1. Press the OK Key **Menu** > **Settings** > **Security** > Enter your password. > **Phone Lock**.

note The default Lock code is the last 4 digits of your phone number.

2. Select "Lock Now", "Unlock" or "On Power Up".

3. Press the Left Soft Key **Set** to save the setting.

Change lock code

Changes your 4-digit password.

1. Press the OK Key **Menu** > **Settings** > **Security** > Enter your password. > **Change Lock Code**.

note The default Lock code is the last 4 digits of your phone number.

2. Enter your lock code.
3. “Create your new lock code” screen appears. Enter your new lock code.
4. “Re-enter your new lock code” screen appears. Enter your new lock code again.

Special number

This feature allows you to set 3 phone numbers that can be called even when the phone is locked.

1. Press the OK Key **Menu** > **Settings** > **Security** > Enter your password. > **Special Number**.

note The default Lock code is the last 4 digits of your phone number.

2. Select a location(1. 911, 2. *911, 3. #911) and press the Left Soft Key **Add/Edit**. Enter the phone number and press Left Soft Key **Save** to save it to that location.
3. Press the Right Soft Key **Erase** to erase the Special Number. Select “No” and press the OK Key.

Restriction

You can restrict incoming or outgoing calls, and international calls. When calls are restricted, calls still may be possible to the official emergency number programmed into your device.

1. Press the OK Key **Menu** > **Settings** > **Security** > Enter your password. > **Restriction**.

note The default Lock code is the last 4 digits of your phone number.

2. Select “Allow All” or “Restricted All”, then press the Left Soft Key **Set** to save the setting.

Erase

To erase all data in your phone:

1. Press the OK Key **Menu** > **Settings**
> **Security** > Enter your password.
> **Erase**.

note The default Lock code is the last 4 digits of your phone number.

2. Select “Contacts”, “Messages”, “Voice Memo” or “Download Contents”, then press the OK Key.
3. Select “No” and press the OK Key.

Reset phone

All saved contents and preference setting will be reset to factory defaults.

1. Press the OK Key **Menu** > **Settings**
> **Security** > Enter your password.
> **Reset Phone**.

note The default Lock code is the last 4 digits of your phone number.

2. “Reset phone?” will be displayed. Select “1. Yes” and press the OK Key.
3. “Really?” will be displayed. Select “1. Yes” and press the OK Key.

Erase all entries

All saved contents and preference setting will be reset to factory defaults.

1. Press the OK Key **Menu** > **Settings**
> **Security** > Enter your password.
> **Erase All Entries**.

note The default Lock code is the last 4 digits of your phone number.

2. “Erase all entries?” will be displayed. Select “1. Yes” and press the OK Key.
3. “Really?” will be displayed. Select “1. Yes” and press the OK Key.

Others

Language

Selects the language in which letters are displayed on the screen.

1. Press the OK Key **Menu** > **Settings**
> **Others** > **Language**.
2. Select “English” or “Spanish”.
3. Press the Left Soft Key **Set** to save the setting.

Airplane Mode

Airplane Mode deactivates the wireless connectivity of your phone but allows you to continue using non-network functions like the Calendar and games.

1. Press the OK Key **Menu > Settings > Others > Airplane Mode.**
2. Select “On”, “Off”.
3. Press the Left Soft Key **Set** to save the setting.

note You cannot make or receive calls or text messages when Airplane Mode is On.

Location

To set the location function:

1. Press the OK Key **Menu > Settings > Others > Location.**
2. Select “Location On” or “E911 Only”.
3. Press the Left Soft Key **Set** to save the setting.

System select

To set the location function:

1. Press the OK Key **Menu > Settings > Others > System Select.**
2. Select “Home Only” or “Automatic”.
3. Press the Left Soft Key **Set** to save the setting.

Phone info

Displays the information of your phone:

My phone number

Displays your MDN and MIN.

1. Press the OK Key **Menu > Settings > Phone Info > My Phone Number.**
2. The “MDN” and “MIN” will be displayed along with your service provider’s name.
3. To return to the previous page, press the Right Soft Key **Close** or OK Key.

Version

Displays the S/W Version, H/W Version, PRL Version, Browser Name, Browser Version, Brew Version, PRI, ERI:

1. Press the OK Key **Menu > Settings > Phone Info > Version**.
2. The S/W Version, H/W Version, PRL Version, Browser Name, Browser Version, Brew Version, PRI, ERI information is displayed.
3. To return to the previous page, press the Right Soft Key **Close** or OK Key.

ESN/MEID

Displays your ESN(Dec), ESN(Hex), MEID (Dec) and MEID(Hex).

1. Press the OK Key **Menu > Settings > Phone Info > ESN/MEID**.
2. To return to the previous page, press the Right Soft Key **Close** or OK Key.

Icon glossary

Displays the icons.

1. Press the OK Key **Menu > Settings > Phone Info > Icon Glossary**.
2. Your phone's indicator icons are displayed.
3. Press the OK Key, your phone's indicator icons information are displayed.

Care and maintenance

Your device is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you protect your warranty coverage.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, remove the battery, and allow the device to dry completely before replacing it.
- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not attempt to open the device other than as instructed in this guide.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.
- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.
- Use chargers indoors.
- Always create a backup of data you want to keep, such as contacts and calendar notes.
- To reset the device from time to time for optimum performance, power off the device and remove the battery.

These suggestions apply equally to your device, battery, charger, or any enhancement. If any device is not working properly, take

it to the nearest authorized service facility for service.

Additional safety information

Small children

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

Operating environment

This device meets RF exposure guidelines when used either in the normal use position against the ear or when positioned at least 2.2 centimeters (7/8 inches) away from the body. When a carry case, belt clip, or holder is used for body-worn operation, it should not contain metal and should position the device the above-stated distance from your body.

To transmit data files or messages, this device requires a quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure the above separation distance instructions are followed until the transmission is completed.

Parts of the device are magnetic. Metallic materials may be attracted to the device. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Medical devices

Operation of any radio transmitting equipment, including wireless devices, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device 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.

Implanted medical devices

Manufacturers of medical devices recommend that a minimum separation of 15.3 centimeters (6 inches) should be maintained between a wireless device and an implanted medical device, such as a pacemaker or implanted cardioverter defibrillator, to avoid potential interference with the medical device. Persons who have such devices should:

- Always keep the wireless device more than 15.3 centimeters (6 inches) from the medical device when the wireless device is turned on.
- Not carry the wireless device in a breast pocket.
- Hold the wireless device to the ear opposite the medical device to minimize the potential for interference.
- Turn the wireless device off immediately if there is any reason to suspect that interference is taking place.
- Read and follow the directions from the manufacturer of their implanted medical device.

If you have any questions about using your wireless device with an implanted medical device, consult your health care provider.

Hearing aids

Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

Hearing aid compatibility

Your mobile device model complies with FCC rules governing hearing aid compatibility. These rules require an M3 microphone

or higher value. The M-value, shown on the device box, refers to lower radio frequency (RF) emissions. A higher M-value generally indicates that a device model has a lower RF emissions level, which may improve the likelihood that the device will operate with certain hearing aids. Some hearing aids are more immune than others to interference. Please consult your hearing health professional to determine the M-rating of your hearing aid and whether your hearing aid will work with this device.

This device includes a setting for direct connection to telecoil-equipped hearing aids. When both the telecoil hearing aid (T switch) and the phone telecoil are activated, using the device with the aided ear will provide a direct connection for audio through your hearing aid. The quality of sound depends on the type of hearing aid used. You should test the device with the telecoil setting activated to determine whether your audio performance improves. Using the telecoil hearing-aid setting consumes additional battery power.

More information on accessibility can be found at.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in

motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added.

Only qualified personnel should service the device or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including 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.

Using your device while flying in aircraft is prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous

to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere, and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refuelling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities and areas where the air contains chemicals or particles such as grain, dust, or metal powders. You should check with the manufacturers of vehicles using liquefied petroleum gas (such as propane or butane) to determine if this device can be safely used in their vicinity.

Emergency calls

Important: This device operates using ra-

dio signals, wireless networks, landline networks, and userprogrammed functions. Connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

To make an emergency call:

1. If the device is not on, switch it on. Check for adequate signal strength. Depending on your device, you may also need to complete the following:
 - Remove certain call restrictions you have activated in your device.
2. Press the end key as many times as needed to clear the display and ready the device for calls.
3. Enter the official emergency number for your present location. Emergency numbers vary by location.
4. Press the send key.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

Certification information (SAR)

This mobile device meets guidelines for exposure to radio waves.

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The exposure guidelines for mobile devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the ICNIRP guidelines is 1.6 watts/kilogram (W/kg) averaged over 1 grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The actual SAR level of an operating device can be below the maximum value because the device is designed to use only the power required to reach the network. That amount changes depending on a number of factors such as how close you are to a network base station.

Use of device accessories and enhancements may result in different SAR values.

SAR values may vary depending on national reporting and testing requirements and the network band. Additional SAR information may be provided under product information at.

Your mobile device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA) and Industry Canada. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use at the ear is 1.29 W/kg and when properly worn on the body is 0.311 W/kg.

SAFETY INFORMATION FOR FIXED WIRELESS TERMINALS 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.

INTERFERENCE TO MEDICAL DEVICES

Certain electronic equipment may be shielded against RF signal from your wireless phone. (pacemakers, Hearing Aids, and so on) Turn your phone OFF in health care facilities when any regulations posted in

these areas instruct you to do so. RF signals may affect improperly installed or inadequately shielded electronic system in motor vehicles.

EXPOSURE TO RF ENERGY

Use only the supplied or an approved replacement antenna. Do not touch the antenna unnecessarily when the phone is in use. Do not move the antenna close to, or couching any exposed part of the body when making a call.

BODY-WORN OPERATION

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

FCC Compliance Information

This device complies with Part 15 of 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.

U.S.A.

U.S.FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

INFORMATION TO THE USER

note This equipment has been tested and found to comply with the limits for 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 deter-

mined 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:

- *- Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.
- *- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- *- Consult the dealer or an experienced radio/TV technician for assistance.

Changes or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.

FCC Hearing-Aid Compatibility (HAC) Regulations For Wireless Devices

On July 10, 2003, the U.S. Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless phones under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless phones be compatible with hearing-aids. The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons

with hearing disabilities. While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate. The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box. The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings. Hearing devices may also be rated.



Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the aring device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together. A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use. In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This should provide the hearing aid user with “normal usage” while using their hearing aid with the particular wireless phone. “Normal usage” in this context is defined as a signal quality that is acceptable for normal operation. The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules. The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.