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SAFETY PRECAUTIONS

Handling the Phone, Battery and Charger

⚠ DANGER

❗ **Compulsory**	Only use the battery and charger specified for the phone. Failure to do so can result in damage to the phone, electric shock or fire.

⚠ CAUTION

🚫 **Prohibited**	Do not store or operate the phone or charger in hot, damp, or dusty areas, which can damage electrical and mechanical components. Avoid prolonged exposure to temperatures below 5°C (41°F) or in excess of 35°C (95°F)

⚠ DANGER

🚫 **Prohibited**	Do not drop, shake or throw the phone or charger. Rough handling can damage internal circuit boards and the battery pack.
🚫 **Prohibited**	Do not use the phone in the vicinity of volatile gases. Leave the area before using the phone. Failure to leave the area can result in the risk of fire or an explosion.
🚫 **Disassembly prohibited**	Do not disassemble or modify the phone, charger, or battery. Incorrect modifications, reassembly, or tampering may result in malfunction or personal injury.

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Handling the Phone

⚠ DANGER

⊘ **Prohibited**	Do not use the phone while operating a vehicle.
❗ **Compulsory**	Observe local regulations for specialized areas (hospital, aircraft, etc) when using the phone.
⊘ **Prohibited**	Do not use the phone near electronic equipment prone to interference. Radio frequency interference may result in electronic equipment malfunction. The following electronic equipment may be affected: Hearing aids, pacemakers and other clinical electronic devices, smoke detectors, automatic doors and other automatically controlled devices.

⚠ CAUTION

⊘ **Prohibited**	Keep all storage media (magnetic cards, floppy disks, credit cards, etc.) away from the phone. Close contact can erase or damage the storage media.
⊘ **Prohibited**	Keep all sharp metal objects (pins, nails, hairpins etc.) away from the phone handset. The handset earpiece contains a strong magnet that can attract and hold metal objects. To avoid personal injury, remove any objects from the handset earpiece before using.

Handling the Battery

⚠ DANGER

🚫 **Prohibited**	Do not dispose of the battery pack in a fire. It may explode. Check with local waste management codes for disposal instructions.
🚫 **Prohibited**	Do not force the battery pack into the phone. Improper installation can cause malfunctions or damage the battery pack. This may result in fire or personal injury.
🚫 **Prohibited**	Use caution in handling batteries in order not to short the battery on conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
🚫 **Disassembly prohibited**	If the battery becomes too hot while recharging, it should be removed immediately from the charger.
❗ **Compulsory**	When clothes or skin are exposed to battery leakage, rinse with clean water at once to prevent skin irritation.
❗ **Compulsory**	Do not use a cracked, leaking or odor-emitting battery pack near an open flame or high temperatures.

⚠ CAUTION

❗ **Compulsory**	If a fully discharged battery is stored for a long period of time, it may not be possible to recharge the battery.
🚫 **Prohibited**	Observe local waste management codes for proper battery disposal instructions.

Handling the Charger

⚠ DANGER

Compulsory	Only use a power source that provides the appropriate voltage (AC100~240 V) for the charger. An unsuitable power source can result in damage to the charger, electric shock or fire.
Compulsory	Do not use the charger if the power supply cord or plug is damaged or frayed (exposed or broken wires, etc). This can result in the risk of fire or electric shock.
Prohibited	Do not short circuit the charger connector jack. This may result in fire or electric shock.
Remove power plug	In the event that liquid is spilled into the unit, immediately unplug the charger from the wall outlet to prevent fire or electric shock.

⚠ CAUTION

Compulsory	To avoid the risk of electric shock, always unplug the charger from the wall outlet before cleaning.
Prohibited	To avoid damage, do not place heavy objects on the cord.
Compulsory	To avoid damage and the risk of electric shock, always grip the power plug when removing the charger from the wall outlet. Do not pull on the power supply cord.

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1. GETTING STARTED

1.1 Package Includes

Thank you for purchasing this product

Please check the product contents by comparing them with following pictures

Battery Cover

Handset

Battery

Travel Charger

Belt Clip

User Manual in English

1.2 Handset Description

Earpiece

Antenna

LCD Screen

Earjack

Voice Dial & Speaker phone

Volume Button

Used to adjust the earpiece volume, keypad tone and ringer volume

Function Keys

Voice Memo Button

Keypad

Sub speaker

Microphone

1.3 Function Keys

Key-Board Arrangement		
Digit Keys		
		Press to enter telephone numbers. Press to enter letters and symbols. ✱: Press and hold to turn Etiquette mode on/off. #: Press and hold to turn Lock mode on/off.
Function Keys		
L R	Press to perform functions indicated on the screen.	
📞	Press to place or answer a call. In idle mode, press to directly access the call history list.	
☎	Press to terminate a call. Press and hold to turn the phone ON/OFF.	
✉	Press to enter the Message menu. Also used as a left arrow key.	
⊟	Press to enter "My Menu". Also used as a right arrow key.	
OK	Press to confirm an operation.	
▲	Press to activate VAD. Press and hold to toggle speaker mode on/off. Also used as an upper arrow key.	
▼	Press to directly access Quick Search for phonebook entries. Also used as a down arrow key.	

	ᵒᵗᵒ **CLR**	Press to clear digits and characters from the display in edit mode or return to the previous mode. Press and hold to activate voice memo.
Side Keys		Press to control the volume of the ringer, keypad tone and earpiece. Also used as an up/down arrow key.

1.4 LCD Display

Icons	Descriptions
	Current signal strength: the more lines, the stronger the signal.
	Phone cannot receive a signal from the system.
	Call is in progress.
	E911 only.
	Location Service is on.
	Vibration alert mode on.
	Silence alert mode on.
	Appears when either an event or an alarm is set.
	Phone is roaming (out of service area).
	Phone is in Speaker Phone mode.
	Phone is in TTY mode.
	Phone is in emergency mode.
	Phone is in Digital mode.
	Phone is in the 1X service area.
	Unread text message Urgent unread message: Blinking Normal unread message: ON No unread message: Turn OFF
	Unread voice message.

✉	Unread text and voice message
🔋	Battery charging level – the more blocks, the stronger the charge

1.5 Using the Battery

1.5.1 Installing the Battery

As illustrated below, place the metal locators of the battery into the holes located in the bottom of the unit.

1. Remove the battery cover from the phone by pressing the latch release button and sliding the cover off the phone.
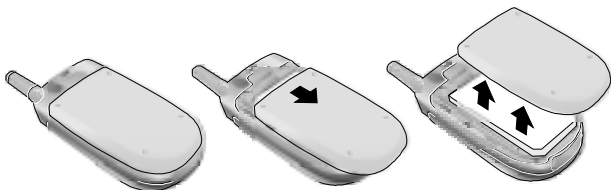
2. Place the battery onto the phone, bottom first so the tabs go into the bottom of the phone and the metal connectors align. Then push the battery down until it locks into place. Place the battery cover over the battery and slide into place.
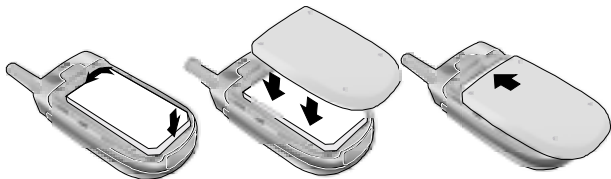
✎ *Note: If the battery is not correctly placed in the compartment, the phone will not turn on and/or the battery may detach during use.*

1.5.2 Charging the Battery

Connect the charger to a standard 100~240V AC wall outlet.

- LED Off: Battery not attached to phone
- LED Blinking fast (500msec): Battery problem. The battery temperature is abnormal.
- LED Blinking slow (1sec on, 3 sec off): Battery is charging.
- Service Light: Charging completed

Note: In case of a sudden electric power interruption, the travel charger may not function properly. If this occurs, disconnect the travel charger from the wall outlet, and try charging again after 5 seconds.

1.5.3 Battery Level Indicator

You can monitor the battery status by checking the battery level indicator. The number of blocks indicates the battery's condition as follows:

Full charge

Low charge

Flashing indicates discharged

1.5.4 Power Management

Battery	Mode	Talk Time	Standby Time
Lithium Ion 800 mAh	Digital	160~210 min	45~140 Hours
	Analog	70~90 min	11~13 Hours

The criteria of measurement are in accordance with our internal specifications.

These operating times are for a new battery. Approximate values may vary depending on network configuration, signal strength and handset usage.

2. BASIC OPERATIONS

2.1 Turning the Phone On/Off

To turn the phone on/off, press and hold for approximately 3 seconds.

2.2 Making a Call

1. In idle mode, enter the phone number with the area code. (A maximum of 32 digits can be displayed.)

2. To make a call, press

● To correct a number:

   To clear the last digit, press CLR

   To erase all the digits entered, press and hold CLR

● If the call fails to go through:

   Press twice to redial the number.

2.3 Ending a Call

If you wish to cancel or disconnect a call, press or close the flip.

2.4 Last Number Redial

1. To display the outgoing call list, press

2. Highlight an entry then press

2.5 Speed Dialing

If you know the speed dial location of the telephone number that you want to call, enter the one, two or three digits of your phonebook address and hold down the last digit. (1 to 9, 10 to 99 or 100 to 500)

📝 *Note: If two telephone numbers are stored in the address, the Primary Number will be dialed.*

2.6 Emergency Call

This feature allows you to place an emergency call even if your phone is in "Phone Lock" or "Restrict" mode when you dial the preprogrammed emergency number, 911, #911, or *911. It also operates in out-of-service areas.

The phone maintains the emergency mode until you press [icon] after disconnecting an emergency call. In emergency call mode, the phone can receive an incoming call from any available system.

To call "911" in "Phone Lock" or "Restrict" mode:

1. Enter [icon], [icon] [icon]

2. Press [icon]

   "911" and "Emergency" will appear on the screen.

2.7 Answering a Call

When you receive an incoming call, the screen will display the name or telephone number of the caller, if you have subscribed to a Caller ID service.

The caller's name will be displayed only when his/her telephone number and name are stored in the Phonebook.

If you wish to answer a call, simply press the [icon] key.

2.8 Caller ID with Name

This feature allows you to preview in your display the number and name of the party calling you before you answer the call. The name appears as you programmed it into the phonebook.

📝 *Note: When Caller ID is restricted or not available, "Restricted Number" or "Unavailable Number" appears on the display.*

2.9 Adjusting the Earpiece Volume

To adjust the earpiece volume during a call, use the volume key located on the side of the phone.

2.10 Viewing Call Histories

To view the outgoing call, incoming call or missed call history, press .

2.11 Call Waiting

Call Waiting notifies you of an incoming call when you are already on a call by sounding a beep tone. "Call Waiting" and the caller's phone number will appear on the display. If the caller is already programmed into your phonebook, their name will appear as well.

This is system dependent feature. Please contact your service provider for more information.

1. To answer the new call, press .

2. To switch between the two calls, press again.

3. STORING A PHONE NUMBER

The phonebook stores up to 500 names, each with up to three different phone numbers.

1. Enter the phone number you want to store then press ⬛ [Save].

2. Use the Navigation Key to select the phone type: Home/Work/Mobile then press ⬛ [Select] or ᴼᴷ.

3. The phone book location number will be highlighted at the top of the list. To select "Name," press ⬛ then press ᴼᴷ to enter name edit mode.

   To change the input mode, press ⬛. Press ⬛ or ⬛ to select the desired input method and language (Symbols, 123, Abc, T9, Language) then press ⬛ [Select].

   After entering the name, press ⬛ [OK]. Scroll down to enter information into the other fields: e-mail, group, speed dial, ringer, voice tag.

4. To save it, press ⬛ [Save].

The following illustrates how to utilize the available functions for each assigned key:

Key	Function
#̂ Space	Press once to accept a word and add a space.
⬛ Mode	Press to change the input mode and language. [Symbols], [123], [T9], [Abc],[Language]
*⸱	Press to change the capitalization mode: 1. T9 English: T9 En->T9 EN -> T9 en 2. ABC English: ABC En -> ABC EN -> ABC en
🔙 Clear	Press once to delete a character or press and hold to delete all characters.

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Key	Function
Ou	Press to select the next matched word in T9 mode.
(direction keys)	Press to move the cursor.

Input the letters you want to enter pressing the keypad as follows:

Keypad	1	2 ABC	3 DEF	4 GHI	5 JKL	6 MNO	7 PQRS	8 TUV	9 WXYZ	Ou
1 Time	.	a	d	g	j	m	p	t	w	0
Repetitions 2 Times	,	b	e	h	k	n	q	u	x	
Repetitions 3 Times	-	c	f	i	l	o	r	v	y	
Repetitions 4 Times	?	2	3	4	5	6	s	8	z	
Repetitions 5 Times	!						7		9	
Repetitions 6 Times	.									
Repetitions 7 Times	@									
Repetitions 8 Times	:									
Repetitions 9 Times	1									

✎ *Note: This table is for English input mode. Other language input modes will have different character sequences.*

The T9 Input Mode incorporates a built-in dictionary to determine a word based on the entered characters. A word can be entered more quickly by pressing a key once per character. For example, to enter "meeting:"

- Press: 6 MNO, 3 DEF, 3 DEF, 8 TUV, 4 GHI, 6 MNO, 4 GHI

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4. SOUNDS

4.1 Bell / Vibrate

To select how you want to be notified of an incoming call:

1. Press ⬚ [Menu].

2. Press ⬚ ⬚

   Select the desired option using the Navigation Key. Options include:

   - Bell: Phone rings and outside LED blinks
   - Vibrate: Phone vibrates and outside LED blinks
   - Vibe/Bell: Phone vibrates first 2 times and then rings
   - Lamp only: Outside LED blinks

📝 *Note: When phone is in Vibrate mode, the following occurs:*
   Incoming call: Phone vibrates
   Schedule, Alarm: Phone vibrates
   Other: Phone beeps

3. To save, press ⬚ [Select].

4.2 Ring Type

To select a ring type:

1. Press [Menu] 1 2 .

2. Press or to display the "Classic Rings", "My Rings" or "Other Rings" menu.

   To listen to the ringer tone, scroll down the selection list. Ring tones include:

   - Classic Rings: Lake, Waltz, Spring, Skate Waltz, Carmen, Turkischer, Chorus, La Paloma, Pathetic Sym, Joy to World, Noel, Hungary Dance, Jingle Bell, Serenade, Pastoral,

   - My Rings: Select File

   - Other Rings: Analog, Effect Bell, Funny Park, Western, Chinese Song, Fantastic, Orgol, Duck, Country, Tap Dance, Seashore, Comic

3. To save, press [Select].

4.3 DTMF Length

To select the sent DTMF tone length for when you press digit keys in the calling state:

1. Press [Menu].

2. Press 1 3 .

3. Select the desired option:

   - Normal: Send DTMF in 150msec

   - Long: Send DTMF when digit key is released. (Max. 2 secs.)

4. To save, press [Select].

4.4 Volume Control

To adjust ringer volume:

1. Press [Menu].

2. Press .

3. Press or to display the "Ringer Vol", "Earpiece Vol" or "Key Volume" menu

    - Ringer Vol: Adjusts the bell volume.

    - Earpiece Vol: Adjusts the earpiece volume.

    - Key Volume: Adjusts the key beep volume.

4. Select the desired volume level by pressing or .

5. To save, press [Select].

📣 *Note: If the volume is set to "0" (mute), the silence icon will appear except when the phone is in Etiquette Mode.*

4.5 Connect Tone

When this function is active, the phone will sound a beep a tone when a call has been connected.

1. Press [Menu] .

2. Select On or Off.

3. To save it, press [Select].

4.6 Fade Tone

When this function is active, the phone will sound a beep tone when the phone loses a signal during a call.

1. Press ▣ [Menu].

2. Press ①, ⑥.

3. Select On or Off.

4. To save, press ▣ [Select].

4.7 Minute Beep

When this function is active, the phone will sound a beep tone every minute of a call.

1. Press ▣ [Menu].

2. Press ①, ⑦.

3. Select On or Off.

4. To save, press ▣ [Select].

5. DISPLAY

5.1 Light Setting

To adjust the lighting time options:

1. Press [Menu] 2 ᵃᵇᶜ , 1

2. Select one of the following options:

   - LCD Time: Adjusts the main screen lighting time. (10, 20, 30 seconds, Flip Open)
   - Light Level: On, Off
   - Keypad Light: Adjusts the keypad lighting time. (10, 20, 30 seconds, Flip open)

3. To save, press [Select].

5.2 Graphics

5.2.1 Animations

To select your favorite LCD display:

1. Press [Menu], 2 ᵃᵇᶜ .

2. Press 2 ᵃᵇᶜ , 1
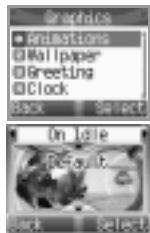
3. Select the desired option by pressing or .
   - On Idle
   - Outgoing Calls
   - Incoming Calls

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- Power On
- Power Off

4. To save, press 🄡 [Select].

5.2.2 Wallpaper

To select a wallpaper for the standby display:

1. Press 🄛 [Menu], 2 ᵃᵇᶜ.

2. Press 2 ᵃᵇᶜ, 2 ᵃᵇᶜ.

3. To display the desired wallpaper option press 🔼 or 🔽.
   - Idle Animation
   - Still Image 1~12
   - Calendar

4. To save, press 🄡 [Select].

5.2.3 Greeting

To input a personal greeting or edit an existing one:

1. Press 🄛 [Menu], 2 ᵃᵇᶜ.

2. Press 2 ᵃᵇᶜ, 3 ᵈᵉᶠ.

3. To select a text color, press 🄡 [Color] until the desired color is displayed in the lower middle box. To edit the Greeting text, press and hold 🄲 to delete all characters, then enter your new greeting. To change the input mode, press 🄛 [T9].

4. Press OK .

5. Use the Navigation Key to:

   - Set greeting message display On/Off
   - Set greeting message slide On/Off
   - Select the background color

6. Press OK .

7. If the "display" option is set to "On", move the greeting message using the Navigation Key.

8. To save, press R [Save].

📻 *Note: You can enter a banner up to 12 English characters long.*

5.2.4 Clock

To set the clock:

1. Press L [Menu], 2 .

2. Press 2 , 4 .

3. To select the desired option, press ⬆ or ⬇ .

   - Digital
   - Analog

4. To save, press R [Select].

📻 *Note: If the wallpaper is set to "Calendar," the "Clock" option will be inaccessible; "Not Supported at the Calendar" will appear when this option is selected.*

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5.3 Contrast Set

To adjust the main screen contrast level:

1. Press ▭ [Menu].

2. Press `2 abc`, `3 def`.

3. To select the desired contrast level, press ▭ or ▭.

4. To save, press ▭ [Select].

5.4 Lamp Setting

To set the service light to blink when the phone is in the service area:

1. Press ▭ [Menu].

2. Press `2 abc`, `4 ghi`.

3. To select the desired option, press ▭ or ▭.

   - Incoming call

   - Incoming SMS

   - Service Light

   - Alarm
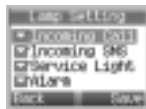
4. To activate or deactivate this function, press `OK`. The checkmark indicates the function has been activated.

5. To save, press ▭ [Save].

📝 *Note: When the service light is on, it may reduce the battery standby time. If the alert type is set to "Lamp Only", the incoming call/SMS light will be activated and the setting cannot be changed.*

6. VOICE

6.1 Ans. Machine

Answering Machine allows you to hear the recording of a call and to choose to accept or reject a call.

6.1.1 Set Auto Answer

1. Press ⬜ [Menu], 3⁰ᶠᶠ.

2. Press 1️⃣, 1️⃣

3. To select the desired setting for each option, press ◄ or ►:

   - Set Answer Time: (Off, Immediately, 5 Sec, 10 Sec)

   - Set Greeting: (Common, User, Driving, Meeting)

   - Record Greeting

   In Greeting menu:

   Select the voice comment to be used when the answering machine is activated.

   To listen to the prompts, press ⬜ [Listen].

   In Record Greeting menu:

   Record a user comment to use as the answering machine greeting.

   To record the user prompt, press ⬜ [Record].

4. To save, press ⬜ [Select].

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6.1.2 Listening

To listen to the recording of a call.

1. Press $\overset{L}{\boxed{}}$ [Menu], $\boxed{3^{DEF}}$.

2. Press $\boxed{1}$ $\boxed{2^{ABC}}$.

3. Select the desired voice memo and press $\overset{R}{\boxed{}}$ [Listen] to listen.

6.2 Voice Memo

To play recorded voice memos and record new voice memos:

1. Press $\overset{L}{\boxed{}}$ [Menu], $\boxed{3^{DEF}}$, $\boxed{2^{ABC}}$.

2. To record a voice memo, select "Empty" and press $\overset{R}{\boxed{}}$ [Record]. "Please begin recording after the prompt tone" will be displayed and you will hear "Please record at the tone".

3. Begin recording your voice memo. When done, press $\overset{R}{\boxed{}}$ [Save].

4. To listen to a voice memo, select the voice memo and press $\overset{R}{\boxed{}}$ [Listen]. To delete all your voice memos, press $\overset{L}{\boxed{}}$ [Del].

You can also record a message (by holding $\boxed{\text{CLR}}$) either in idle mode or during a call.

📝 *Note: The sum of all voice memo, answering machine, and answering machine greeting recordings is limited to a total of four minutes.*

6.3 VAD (Voice Activated Dialing)

To list all voice dial linked phone book recordings:

1. Press ⬜ [Menu], 3ᴰᴱꜰ, 3ᴰᴱꜰ. Only phonebook entries with a recorded voice tag will be displayed.

2. To select the desired option, press ⬛ or ⬛.

3. To change the voice tag, press ⬜ [Select], then scroll to VAD. "Retrain voice dial?" will appear. Press ⬜ [Yes]. Follow instructions for recording a voice tag, then press ⬜ [Save].

4. To use voice dial in standby mode, press ⬛ then say the recorded name.

📹 *Note: To register a voice dial name, see phonebook.*

If you use voice dial in noisy or public place, it may not activate due to the ambient noise. We recommend using voice dial in a place where you can be clearly heard.

7. TOOLS

7.1 Alarm

To set an alarm:

1. Press ⬛ [Menu] 4️⃣, 1️⃣

2. To set a new alarm, choose [Empty] and press ⬛ [Select]. Edit the date and time by pressing the digit keys. Press 🔼 or 🔽 to edit the other fields.

3. Press 🔼 or 🔽 to change the value in each field. Press ⬛ [Save] to save the alarm.

4. To edit an existing alarm, press ⬛ [Edit]. Follow instructions for setting up a new alarm. To delete the alarm, press ⬛ [Del].

📖 *Note: The phone does not provide a clock IC, but displays the date and time based on the information from the digital CDMA network. Therefore, the date and time will not be displayed, while the phone is out of the service area or operates in the analog mode after the phone is turned on. The clock and schedule alarms will not work if the date and time are not displayed.*

7.1.1 Quick Setting

To quickly set the alarm:

1. Press ⬚ [Menu] [4], [1], [*]

2. The Quick Setting Screen will appear and the setting will default to Off. Press ⬚ or ⬚ to select the amount of time until the alarm will ring. You can choose time between 5 minutes (at 5 minute intervals) to 24 hours (in 2 hour intervals).

3. Press ⬚ [Select] to set the alarm. To cancel quick setting, press [CLR] or select "Off" on the Quick Setting screen. Press ⬚ [Yes] to cancel the alarm.
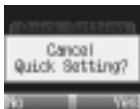
7.2 Schedule

Schedule sets an event and reminds you of the event.

1. Press ⬚ [Menu].

2. To display the list of all schedules, press [4], [2], then press ⬚ [List]. To display the list of events for the selected date, press ⬚ [Select].

7.2.1 Search Schedule

Press [OK] to select a date, then press ⬚ [Del] to delete it or press ⬚ [Edit] to edit it.

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7.2.2 Record Schedule

To record schedule time and contents:

Select a date on the calendar and press [R] [Select]. Choose [Empty] and press [R] [Select]. Use the digit keys to change the Date and Time values. At the txt field, enter the title of the entry and press [R] [OK]. To change the value of Repeat, Remind & Melody, press [] or []. To move to the desired item, press the Navigation Key. Press [R] [Save] to save it.

📑 *Note: You cannot record more than 10 schedules. In order to record more schedules, you must erase an existing schedule.*

7.3 Countdown

1. Press [L] [Menu].

2. Press ⁴, ³. Choose [Empty] and press [R] [Select]. Press the digit keys to change the date. In the countdown text field, enter the name of the countdown. Press [R] [OK]. Then press [R] [Save] to save it.

7.3.1 Delete Countdown

To delete a Countdown:

1. Press ▮ [Menu], 4️⃣ , 3️⃣ . Choose the countdown.

2. Press ▮ [Del]. "Delete current countdown?" will appear. Press ▮ [Yes] to delete.

7.4 Memo

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

1. Press ▮ [Menu] 4️⃣ , 4️⃣ .

2. Choose [Empty] and press ▮ [Select]. Input the memo text. To save it, press ▮ [OK].

7.4.1 View Memo

To view a saved memo:

1. Press ▮ [Menu], 4️⃣ , 4️⃣

2. Select the desired memo and press ▮ [Select].

3. To edit the memo, press ▮ [Edit].

7.4.2 Delete Memo

To delete a memo:

1. Press ▯ [Menu], 4ghi, 4ghi.

2. Select the desired memo, then press ▯ [Del].

3. "Delete current memo?" will appear. Press ▯ [Yes] to delete it.
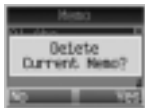
7.5 World Time

To display the current time of select cities worldwide:

1. Press ▯ [Menu] 4ghi, 5jkl.

2. Press ▯ or ▯ to select the city:

Honolulu, Vancouver, Los Angeles, Denver, Chicago, Mexico City, Toronto, New York, Sao Paulo, London, Paris, Athens, Bucharest, Nairobi, Moscow, New Delhi, Jakarta, Bangkok, Beijing, Hong Kong, Seoul, Tokyo, Sydney

Dual Time Display

When selected, Dual Time will replace the greeting text on your phone.   The selected city's name and time will scroll across your display from right to left.

1. Press ▯ [Menu] 4ghi 5jkl.

2. To display the selected city & time on the standby screen, press ▯ [Select].

3. "Display Dual Time" will appear. Press ▯ [Yes] to set.

✎ *Note: If the phone is in analog mode or out of the service area when powered up, the world time will not work properly.*

When world time is set, it will appear in the greeting text position and the greeting text will disappear.

7.6 Stop Watch

This function allows you to use the phone as a stop watch.

The stop watch displays time in hours, minutes, seconds and milliseconds. To operate the stop watch:

1. Press ⬜ [Menu] ④, ⑥.

   ⬜ Start / Stop

   ⬜ Split/Init/Back

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7.7 Calculator

This function allows you to use your phone as a calculator.

This calculator will perform basic mathematic functions (addition, subtraction, multiplication, division). To access the calculator:

1. Press [Menu] , .

2. Press the number keys to input numbers. Press , , or for +, -, / or X. To insert a decimal point, press Press for prefix minus sign. To clear, press , then press [=] for the answer.

EXAMPLE

To calculate 128 X 32 =:

1. Enter 128.

2. Press .

3. Enter 32.

4. Press .

7.8 Convert Unit

To convert units on your phone:

1. Press ⬛ [Menu] 4₍₎, 8ᵀᵁⱽ.

2. To reach the desired unit item, press ⬛ or ⬛, (1~6) or press 1 ~ 6ᴹᴺᴼ, then press ⬛ [Select].

   - Length

   - Weight

   - Volume

   - Area

   - Temperature

   - Speed

3. To change the unit type (for example: m, cm…),press ⬛ or ⬛. Enter the digit(s) to be calculated. To clear the digits, press CLR.

8. SETTINGS

8.1 Security

To prevent others from using the phone without permission and allow access to security features only after inputting a lock code (password):

1. Press ⬜ [Menu] $\boxed{5 \text{ NL}}$, $\boxed{1}$

The default Lock Code is "0000."
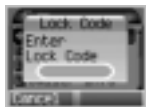
8.1.1 Security Mode

To set the security mode:

1. Press ⬜ [Menu], $\boxed{5 \text{ NL}}$, $\boxed{1}$ then enter the lock code (password).

2. Press $\boxed{1}$

   Select "Off", "Always"," Now" or "Power On" and then

   - Off: Normal phone mode.

   - Always: Phone immediately locks.

   - Now: Phone immediately locks. To unlock the phone, input the lock code via menu entry.

   - Power on: Phone immediately locks each time it is powered on. To unlock the phone, input the lock code via menu entry.

3. Press $\boxed{R}$ [Select].

8.1.2 Change PWD

To change your 4-digit lock code (password):

1. Press ⬜ [Menu], $\boxed{5 \text{ NL}}$, $\boxed{1}$ then enter the lock code.

2. Press 2ABC.

3. Enter the new lock code then press R [OK].

4. Enter the new lock code again then press R [OK].

8.1.3 Privacy Lock

To lock individual functions:

1. Press L [Menu], 5JKL, 1 then enter the lock code.

2. Press 3DEF.

3. Highlight the desired item and press OK to set the item "On" or "Off". A check mark in the box next to the item indicates "On".

4. To save, press R [Save].

8.1.4 Call Restrict

This function prevents calls from being made in the selected restriction mode.

1. Press L [Menu], 5JKL, 1 then enter the lock code.

2. Press 4GHI and check the types of calls (Int. Call, Memory 10~, All Outgoing, All Incoming) to restrict by pressing OK.

3. To save, press R [Save].

8.1.5 Reset

To restore the phone's default settings:

1. Press L [Menu], 5JKL, 1 then enter the lock code.

2. Press 5JKL.

3. Select "Yes" or "No".

4. Press [R] [Select] to complete the operation.

8.2 Answer Mode

To set the phone to automatically answer when you open the phone:

1. Press [L] [Menu] $\boxed{5 \text{ кл}}$, $\boxed{2 \text{ авс}}$.

2. Select from the following:

   - Press Key

   - Flip Open

   - Auto Answer

3. Press [R] [Select].

8.3 Call Timers

To help you manage your calls, your phone is equipped with several Call Timers. To access Call Timers:

1. Press [L] [Menu] $\boxed{5 \text{ кл}}$, $\boxed{3^{\text{def}}}$.

8.3.1 Total Calls

To view total usage time and the total number of calls:

- Press [L] [Menu], $\boxed{5 \text{ кл}}$, $\boxed{3^{\text{def}}}$. This timer can be reset.

8.3.2 Last Call

To view the time of the last call:

- Press [L] [Menu], $\boxed{5 \text{ кл}}$, $\boxed{3^{\text{def}}}$, $\boxed{\text{8}}$.

8.3.3 Incoming Calls

To view the total time and number of Incoming Calls:

● Press [Menu], 5 ᴷᴸ, 3ᴰᴱᶠ, ᴼᴷ. This timer can be reset. (Press [Reset] and enter the lock code).

8.3.4 Outgoing Calls

To view the total time and number of Outgoing Calls:

● Press [Menu], 5 ᴷᴸ, 3ᴰᴱᶠ, ᴼᴷ. This timer can be reset. (Press [Reset] and enter the lock code).

8.3.5 Home Calls

To view the total time and number of Home Calls:

● Press [Menu], 5 ᴷᴸ, 3ᴰᴱᶠ, ᴼᴷ. This timer can be reset. (Press [Reset] and enter the lock code).

8.3.6 Roam Calls

To view the total time and number of Roam Calls:

● Press [Menu], 5 ᴷᴸ, 3ᴰᴱᶠ, ᴼᴷ. This timer can be reset. (Press [Reset] and enter the lock code).

8.4 Caller Info

This function notifies you of who is calling by displaying the caller's phone number. If the caller's name and number are already stored in your phonebook, the name and number from the memory location will appear.

1. Press [Menu] 5 ᴶᴷᴸ, 4 ᴳᴴᴵ.

2. Enter the lock code [****].

3. Select On/Off for Caller Phone and Caller Name:

   Caller Phone: Restricts the phone number of the caller from appearing.

   Caller Name: Restricts the name of the caller, including phonebook referencing from appearing.

4. Press [Save] to save it.

8.5 Entry Mode

The Entry Mode incorporates a built-in-dictionary to determine a word based on the entered characters. A word can be entered more quickly by pressing a key once per character. To select an Entry Mode:

1. Press [Menu] 5 ᴶᴷᴸ, 5 ᴶᴷᴸ.

   Select the Entry Mode for your default text input mode:

   - Abc
   - 123
   - T9

2. Press [Select] to save it.
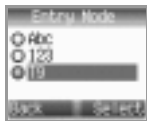
8.6 Language

To select the language in which letters are displayed on the screen:

1. Press ⬜ [Menu] [5 ᴷᴸ], [6ᴹᴺᴼ].

2. Select the language:
   - English
   - Español
   - Français

3. Press ⬛ [Select].

8.7 My Phone

To display your phone number:

1. Press ⬜ [Menu] [5 ᴷᴸ], [7...].
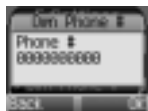
   Your phone number appears for about one minute.

8.8 System

To change the system properties of the phone:

1. Press ⬜ [Menu] [5 ᴷᴸ], [8 ᵀᵁⱽ].

8.8.1 Change NAM

This function enables Auto NAM (Number Assignment Module) or manually selects a NAM.

1. Press ⬜ [Menu] [5 ᴷᴸ], [8 ᵀᵁⱽ], [1]

Select one of the following:

- NAM1
- NAM2

2. To save, press [R] [Select].

8.8.2 Set Mode

To select the Set Mode:

1. Press [L] [Menu] [5 JKL], [8 TUV], [2 ABC].

Select one of the following:

- Standard: Automatic system selection
- Home Only: Service is limited to home system only

2. To save, press [R] [Select].

8.8.3 Privacy

This function enhances voice privacy and avoids tapping during a call.

1. Press [L] [Menu] [5 JKL], [8 TUV], [3 DEF].

Select one of the following:

- Standard: Voice privacy not activated when it is available by system.
- Enhanced: Voice privacy activated when it is available by system.

2. To save, press [R] [Select].

8.8.4 S/W Version

To confirm the phone's software version:

● Press [L] [Menu], [5 JKL], [8 TUV], [4 GHI].
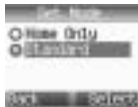
8.8.5 Last SID

To confirm the last SID:

● Press ⎄ [Menu], $\boxed{5_{\text{JKL}}}$, $\boxed{8_{\text{TUV}}}$, $\boxed{5_{\text{JKL}}}$.

8.8.6 PRL ID

To confirm the PRL ID:

● Press ⎄ [Menu], $\boxed{5_{\text{JKL}}}$, $\boxed{8_{\text{TUV}}}$, $\boxed{6_{\text{MNO}}}$.

8.8.7 TTY Mode

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

1. Press ⎄ [Menu], $\boxed{5_{\text{JKL}}}$, $\boxed{8_{\text{TUV}}}$, $\boxed{7_{\text{PQRS}}}$.

● TTY Off   ● TTY Talk

● TTY Hear   ● TTY Full

2. Press ⎄ [Select].

8.8.8 Location

To share your phone's location information with network services other than emergency services:

Press ⎄ [Menu], $\boxed{5_{\text{JKL}}}$, $\boxed{8_{\text{TUV}}}$, $\boxed{8_{\text{TUV}}}$.

● E911 Only: Location information is shared only when making a 911 call.

● Location On: Location information is always shared with network.

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9. GAMES (FUN)

9.1 Eggman2

Press ⬜ [Menu], 6ᴹᴺᴼ, 1

- START
- HELP

UP

LEFT   RIGHT

DOWN

9.2 Jungle Boy

Press ⬜ [Menu], 6ᴹᴺᴼ, 2ᴬᴮᶜ.

- START
- EASY/NORMAL/HARD: Press 🔼 or 🔽 to select the desired difficulty
- RANK
- HELP

UP

Fire

DOWN
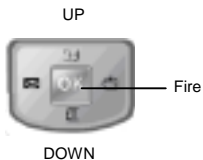
10. MY MENU

You can store frequently used functions (Sounds, Display, Voice Service, Tools, Phone Manager, etc) to My Menu; this allows you to quickly access these functions.

10.1 Set

1. To access My Menu, press [icon].

2. Press [icon]/[icon] to reach the desired item then press [icon] [Set].

3. Select the desired menu option. Press [icon] [Select] to set the parameters for the menu option.

4. To complete the setting, press [icon] [Save].

10.2 Change or Delete

1. To access My Menu, press [icon].

2. Press [icon]/[icon] to reach the desired item then press [icon] [Set].

• To change the setting, select the desired menu then press [icon] [Save]; to delete the setting, press [icon]

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11. PHONEBOOK

11.1 Search

The Phone Book stores up to 500 entries, each of which can be assigned to a group.

Entries can be retrieved by Quick Search, Srch by Name, Srch by #, Srch by Index and Srch by E-mail. To search for an entry:

1. Press $\boxed{R}$ [Phonebk]

   Choose the search method and press $\boxed{R}$ [Select].

11.1.1 Quick Search

To search for phonebook data via address index storing:

1. Press $\boxed{R}$ [Phonebk],

2. Select an entry, then press $\boxed{R}$ [Select] to view detailed information.

11.1.2 Srch by Name

To search phonebook data by entering part of a name:

1. Press $\boxed{R}$ [Phonebk],

2. Select the search range of all phonebook or existing groups and press $\boxed{R}$ [OK].

3. Press $\boxed{L}$ [Del] to delete the record or press $\boxed{R}$ [Select] to view detailed information.

11.1.3 Srch by

To search phonebook data by number:

1. Press ⬚ [Phonebk], ⬚ 3ᴰᴱꜰ.

2. Input part of a phone number then press ⬚ [OK] to find out the matching number. Press ⬚ [Del] to delete the record or press ⬚ [Select] to view detail information.

11.1.4 Srch by Index

To search phonebook data via index number:

1. Press ⬚ [Phonebk], ⬚ 4ᴳʜᴵ.

   Enter the index that you want to find.

2. To select a record, press ᴼᴷ then press ⬚ [Del] to delete the record or press ⬚ [Select] to view detailed information.

● Maximum number of input characters: 3 digits. (1~500)

11.1.5 Srch by E-mail

To search phonebook data using part of an e-mail address:

1. Press ⬚ [Phonebk], ⬚ 5ᴶᴷᴸ.

   Enter E-mail address and press ⬚ [OK].

2. Press the Navigation Key to select a record then press ⬚ [Del] to delete the record or press ⬚ [Select] to view detailed information.

● Maximum number of input characters: 48 characters

11.2 Record

To record phone numbers to empty phonebook address:

1. Press [R] [Phonebk] 2 abc.

2. The next available phonebook location will be displayed. Scroll down to each field to enter the information.

3. To edit the selected item press OK, then press [R] [OK].

   - Maximum number of input addresses: 500
   - Maximum number of input names: 16 characters
   - Maximum number of input telephone No.: 32 digits
   - Maximum number of input E-mail addresses: 48 characters

4. To save to the Phonebook, press [R] [Save].

Voice Dial

● To add a voice dial tag, select "Voice Dial" then press OK. "Set Voice Dial?" will be displayed. Press [R] [Yes]. "VR mode…Please Speak Voice Tag" will be displayed and you will hear "Name please." Say the name clearly into the phone.

   You will hear "Please say it again". Say the name again.

   You will hear "Added" and the phone's display will return to phonebook edit mode.

Voice Dial Calling

● Press [key] to enter Voice Activated Dialing mode.

● "Say a name…" will be displayed and you will hear "Name please". Say the name and the phone will dial the number. You will hear "Calling" and see the phonebook entry name and phone number on the display.

11.3 Edit Group

To add, edit or remove a phonebook group:

1. Press ☐ [Phonebk] ③.

2. To add a new group, scroll to [Empty] and press ☐ [Select]. To edit a group name, scroll to the group and press ☐ [Select]. Then input a group name. Press ☐ [OK] to confirm, and then select a group ringer.

3. Press ☐ [Select].

11.4 Call History

1. To access your Call History, press ☐ [Phonebk] ④.

2. Scroll through the Call History menu options by pressing ▓ or ▓.

3. To call an entry in the list, highlight it then press ☐

Shortcut – From idle mode, press ☐ to access the Call History list.

11.4.1 Outgoing Calls

Displays information of the 20 most recently dialed calls.

1. To see a list of the 20 most recently dialed numbers, press ☐ [Phonebk] ④. If the number is already stored in your Phonebook, only the name appears. If the number is not stored, only the phone number appears.

2. Highlight a record then press ▭ [Del] to delete the record or press ▭ [Select] to view detailed information.

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

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

11.4.2 Incoming Calls

Displays information of the 20 most recently answered calls.

1. Press ▭ [Phonebk] ⌨4 ₒₕₗ, ⌨. If the number is already stored in your Phonebook, only the name appears. If the number is not stored, only the phone number appears.

2. Highlight a record and then press ▭ [Del] to delete the record or press ▭ [Select] to view detailed incoming call information.

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

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

11.4.3 Missed Calls

Displays information of the 20 most recently missed calls.

1. To see a list of the 20 most recently missed calls, press ▭ [Phonebk], ⌨4 ₒₕₗ, ⌨, ⌨. If the number is already stored in your Phonebook, only the name appears. If the number is not stored, only the phone number appears.

2. Highlight a record and then press ▭ [Del] to delete the record or press ▭ [Select] to view detailed missed call information.

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

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

PhoneBook

11.4.4 Clear Calls

To clear all call histories:

1. Press [Phonebk], 4, then .

2. Select "Yes'' or "No''. Press [Select]. When you select "Yes", you will see "Enter Lock Code" on the display. Input your lock code. You will see "Deleted!" when the call histories have been deleted.

11.5 Clr Phonebook

To clear all phonebook entries:

1. Press [Phonebk] 5.

2. Enter "Lock Code."

3. Press [Yes]. You will see "Deleted!" when the phonebook has been deleted.
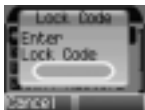
11.6 Special #'s

To add or edit emergency phone numbers:

1. Press [Phonebk] 6.

2. Input lock code. Select the entry number.

3. Press [Edit], enter a phone number, then press [OK] again.

12. SMS

12.1 Voice

The phone will notify you when you receive a message and display the number of received voice mail messages.

1. Press [⬛ OK] [1]

   - To get the message, press [R] [Select].

   - To delete the message, press [L] [Del].
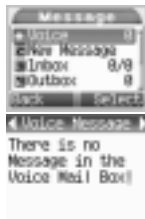
12.2 New Message

To create and send text messages by selecting a new submenu, press [⬛ OK] [2 ᴬᴮᶜ].

1. Input the phone number and press [R] [Next] to enter the text message or press [⬛ OK] to edit callback number and priority setting. To search for a phone number in the phonebook or Call History, press [OK] or [R] [Search].

2. To edit the callback number, press [⬛ OK]. Edit the Callback Number.

3. To select the priority of the message, press [⬛ OK]. Then, change the Priority (Normal/Urgent/Emergency) by pressing [⬛ OK] or [⬛ OK]. Press [R] [Next].

4. Input your text message. To delete one character, press [CLR]. To delete all characters, press and hold [CLR]

5. To send the message, press [OK]. To insert a saved message, press [Menu] [2]. To save the message, press [Menu] [3].

📝 *Note: Only a saved message via [Menu] [3] in message editing mode can be retrieved.*

12.3 Inbox

To review the received messages:

1. Press [2] [3].

    - 📧 : New message.

    - 📖 : New Urgent/ Emergency message.

    - 📁 : Read Locked message.

    - 📩 : Read message

2. Select the message using [up] or [down].

3. To display the message, press [OK] or [Read].

4. To use a message option, press [OK] or [Menu].

12.3.1 Reply

1. To reply to a message, press [1]

2. Process like a NEW MESSAGE, except input a Destination Phone Number.

12.3.2 Forward

1. To forward the message, press [2]

2. Process like a NEW MESSAGE, and edit the text message.

12.3.3 Save Address

To save the original address (Fr) of the message, press 3^{DEF}.

12.3.4 Save CB

To save the callback number of the message, press 4^{GHI}.

12.3.5 Lock Msg

To lock or unlock the message, press 5^{JKL}.

12.3.6 Delete

To delete the message, press 6^{MNO}.

12.3.7 Move to Saved

To move the message to the saved folder, press 7^{PQRS}.

12.4 Outbox

To review the message that you sent:

1. Press [key] 4^{GHI}

   - ✉ : Failed message

   - ✉ : Failed locked message

   - ✉ : Sent message

   - ✉ : Sent locked message

   - ✉ : Delivered message

   - ✉ : Delivered locked message

2. Select the message using [key] or [key].

3. To display the message, press OK or [key] [Read].

4. To view message options, press `OK` or `R` [Menu].

12.4.1 (Re) Send

To resend the message, press `1`

12.4.2 Send to

1. To forward the message, press `2 ABC`.
2. Process like a NEW MESSAGE, then edit the text message.

12.4.3 Detail

To see the status of the message, press `3 DEF`.

12.4.4 Lock Msg

To lock or unlock the message, press `4 GHI`.

12.4.5 Delete

To delete the message, press `5 JKL`.

12.4.6 Move to saved

To move the message to the saved folder, press `6 MNO`.

12.5 Saved

To review saved messages:

1. Press `OK` `5 JKL`.

   - ✉ : Save message

   - ✉ : Save Lock message

   - ✉ : Message moved from Inbox

   - ✉ : Locked message moved from Inbox

- : Draft message

- : Locked draft message

Moved from Outbox message.

- : Fail message

- : Fail Lock message

- : Sent message

- : Sent Lock message

- : Delivered message

- : Delivered Lock message

2. Select the message using or .

3. To display the message, press or [Read].

4. To use the saved option, press .

12.5.1 (Re)Send

1. To resend the message, press

2. After sending, the message will be automatically deleted from the saved folder.

12.5.2 Lock Msg

To lock or unlock the message, press .

12.5.3 Delete

To delete the message, press .

12.6 Settings

To customize the messaging features:

Press 📱 6ᴹᴺᴼ

12.6.1 Receive Alert

1. Press 📱 6ᴹᴺᴼ 1

   - Bell: Use beep and lamp

   - Vibrate: Use vibrator and lamp

   - Lamp Only: Use lamp only

2. Select the receive alert method then press ᴼᴷ to confirm.

12.6.2 Alert Remind

If you have not read new incoming messages, the phone will alert using the selected option.

1. Press 📱, 6ᴹᴺᴼ, 2ᴬᴮᶜ.

   - One Time

   - Every 2 Min: Alert every 2 minutes

2. Select the alert reminder method then press ᴼᴷ to confirm.

12.6.3 Memory Full

If your phone memory is full, you might not be able to receive messages. The phone can be programmed to automatically delete the oldest message or warn you a message cannot be received because the memory is almost full.

1. Press [2abc], [6MNO], [3DEF].

   Memory Full
   ○ Warn to User
   ○ Auto Delete
   Back   Select

   - Warn to user: Show warning message to user and automatically reject when memory is full.

   - Auto Delete: If the memory is full, the oldest messages are automatically deleted.

2. Select the memory management method then press [OK] to confirm.

12.6.4 Priority

To set the priority for outgoing messages:

1. Press [2abc], [6MNO], [4GHI].

2. Select the priority setting method then press [OK] to confirm.

   - Normal: Normal messages.

   - Urgent: Urgent messages.

   - Emergency: Emergency messages.

   Priority
   ○ Normal
   ○ Urgent
   ○ Emergency
   Back   Select

12.6.5 Save Sent Msg

After sending outgoing messages, you can choose to automatically save sent messages.

1. Press [2abc], [6MNO], [5JKL].

   - Auto Save: Automatically save sent messages

   - Prompt: Phone asks you each time if you want to save the sent message

   - Do Not Save: Do not save sent messages

   Save Sent Msg
   ○ Auto Save
   ○ Prompt
   ○ Do Not Save
   Back   Select

2. Select the desired option for sent messages, then press <kbd>OK</kbd> to confirm.

12.6.6 Callback #.

The phone will automatically include a call back number when you write a new message.

1. Press <kbd>*</kbd>, <kbd>6</kbd>, <kbd>6</kbd>.

2. Press <kbd>OK</kbd> after inputting a callback number.

12.7 Delete All

To delete Inbox/Outbox Messages (except for Locked Messages):

1. Press <kbd>*</kbd> <kbd>7</kbd>.

2. Select the desired option, then press <kbd>OK</kbd> to confirm.

   - Inbox: To delete inbox messages
   - Read Inbox: To delete only Read Inbox messages
   - Outbox: To delete outbox messages
   - Saved: To delete saved folder messages
   - Delete All: To delete Inbox/Outbox/Saved messages

13. SAFETY AND WARRANTY

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

13.1 Safety Information for Wireless Handheld Phones

Read This Information Before Using Your Handheld Portable Cellular Telephone.

13.1.1 EXPOSURE TO RADIO FREQUENCY SIGNALS

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

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

- ANSI C95.1 (1992) *

- NCRP Report 86 (1986) *

- ICNIRP (1996) *

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

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

13.1.2 ANTENNA CARE

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

13.1.3 DRIVING SAFETY

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

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions so require.

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

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

⚠ *Warning: Failure to follow these instructions may lead to serious personal injury and possible property damage.*

13.1.4 ELECTRONIC DEVICES

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

13.1.4.1 Pacemakers

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

Persons with pacemakers:

- ALWAYS keep the phone more than six inches from your pacemaker when the phone is turned on.
- Do not carry the phone in a breast pocket.

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

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

13.1.4.2 Other Medical Devices

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

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

13.1.4.3 Posted Facilities

Turn your phone OFF where posted notices so require.

13.1.5 OTHER SAFETY GUIDELINES

13.1.5.1 Aircraft

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

13.1.5.2 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.

13.1.5.3 Potentially Explosive Atmospheres

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

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your

vehicle's engine.

13.1.6 PRECAUTIONS

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

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

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

DO NOT expose this equipment to rain or spilled beverages.

DO NOT use unauthorized accessories.

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

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

Note: 1. "WARNING: This product contains a chemical known to the State of California to cause cancer."

2. "WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm."

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13.2 SAFETY INFORMATION FOR FCC RF EXPOSURE

⚠ *WARNING: Read this information before using.*

13.2.1 CAUTIONS

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

13.2.2 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.

✎ *Note: For more information about RF exposure, please visit the FCC website at **www.fcc.gov**.*

14. SAR INFORMATION

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

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

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

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 1.37 W/Kg and when worn on the body, as described in this user guide, is 0.777 W/Kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model phone

with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on 06YUTS-C2000.

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

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

15. FDA CONSUMER UPDATE

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

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the standby mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones

- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function

- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

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

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

The National Institutes of Health participates in some inter-agency working group activities, as well. FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term "wireless phone" refers here to hand-held wireless phones with built-in Antennas, often called "cell," "mobile" or "PCS" phones.

These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures

far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years.

The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world.

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

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

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation

Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones?

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

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the

RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10.What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11.What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and

wireless phones so that that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12.Where can I find additional information?

For additional information, please refer to the following re-sources:

- FDA web page on wireless phones (http://www.fda.gov/cdrh/ phones/index.html)

- Federal Communications Commission (FCC) RF Safety Program (http://www.fcc.gov/oet/rfsafety)

- International Commission on Non-Ionizing Radiation Protection (http://www.icnirp.de)

- World Health Organization (WHO) International EMF Project (http://www.who.int/emf)

- National Radiological Protection Board (UK) (http://www.nrpb.org.uk/)

16. PROTECT YOUR WARRANTY

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

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

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

UTSTARCOM/AUDIOVOX COMMUNICATIONS
555 Wireless Blvd., Hauppauge, New York 11788, 800-229-1235
16808 Marquardt Avenue, Cerritos, California 90703, 562-802-5100
UTStarcom Canada Company
5155 Spectrum Way, Unit #5, Mississauga, Ontario
Canada L4W 5A1, 800-465-9672

17. 12 MONTH LIMITED WARRANTY

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

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

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

This Warranty does not apply to:

- Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage.

- Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.

- Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions.

- Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company.

- Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts.

- Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna

or for communications range or operation of the cellular system as a whole.

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

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

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LAIBILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR AN SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states or provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other

rights which vary from state to state or province to province.

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