

CDMA DIGITAL PHONE

HGP-230E

LARGE 4-LINE DISPLAY

SLEEK, COMPACT AND LIGHTWEIGHT DESIGN

VIBRATING ALERT OPTION
ALLOWS FOR QUIET NOTIFICATION
OF INCOMING CALLS

7 SELECTABLE RING TONES AND
8 SELECTABLE MELODY TONES

ALL-DAY STANDARD BATTERY
WITH UP TO 120-150 MINUTES
OF TALK TIME OR UP TO 40-50
HOURS OF STANDBY TIME



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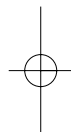


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CHAPTER 1

BEFORE USING YOUR PHONE

Please read this chapter before using this product.

- ➊ Precaution
- ➋ Package Includes
- ➌ Handset Description
- ➍ Basic Functions
- ➎ Display Icons
- ➏ Using the Battery
- ➐ Charging the Battery
- ➑ Important Battery Information

PRECAUTIONS

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

1. DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.
2. DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using the unit, lay down the unit to avoid possible damage due to instability.
3. DO NOT expose this equipment to rain or spilled beverages.
4. DO NOT use unauthorized accessories.
5. DO NOT disassemble the phone or its accessories. If service or repair is required, return unit to an authorized Hyundai Service Center(M1 Shop, Service Communication Pte.,Ltd.). If unit is disassembled, the risk of electric shock or fire may result.
6. DO NOT short-circuit the battery terminals by metal items etc.

PACKAGE INCLUDES

Thank you for purchasing this product. Please check the product contents by comparing them with the following pictures.

Handset



Desktop Charger



Standard Battery



User Manual



Handstrap



In case there are any product defects, please report it to the place of purchase immediately.

HANDSET DESCRIPTION

LED

Blinks in RED when you make a call or receive a call



Antenna

For best call quality, extend the antenna during the call



Earpiece

LCD Screen

Volume Button
To adjust volume and for manual phonebook scrolling.

Keypad

Function Keys

Microphone

BASIC FUNCTIONS

THE FUNCTION KEYS

SEND

This key is used to make or receive a call.

END

This key is used to terminate a call or exit the current menu. This key is used to turn the handset on or off. It also releases the Key Lock function.



This key is used to look up the list of stored phone number or names or call logs. This key is used to check contents of the text messages.

CLR

This key clears the digits or text from the display or memory.

STO

This key is used to set parameters.



These keys are used to scroll through the contents of the menu.



This key is used to access voice or text messages.

MENU

This key is used to access the Menu when pressed and held for more than 1 second.

DISPLAY INDICATORS

SCREEN STATUS, DISPLAY AND FUNCTION



Signal Strength


Indicates current signal strength. More lines mean better signal strength.





Roaming

Indicates the Phone is outside of its home area.

Service Indicator

When a call is in progress,  is displayed.

When  is displayed, the phone is in idle mode.

When  is displayed, the phone is not receiving a signal from the system.



Message

Indicates a text message or voice mail message is waiting.



Alarm

Indicates that the alarm is activated.



Battery

Indicates battery charge level status. The more bars you see, the greater the charge.

USING THE BATTERY

INSTALLING THE BATTERY

1

1 Insert the bottom of battery into the groove at the bottom of the handset. 2 press in the top of the battery until it snaps.



REMOVING THE BATTERY

1

1 Push the tab with one hand 2 lift the top of the battery to separate.



The battery must be correctly placed in the battery compartment. If battery is incorrectly inserted, the handset will not turn on or the battery may slip out during use.

CHARGING THE BATTERY

POWER CONNECTION

- 1 Connect the charger to a standard 230V AC outlet.
LED will blink orange when the power is connected.



CHARGING THE BATTERY ONLY

- 1 To charge the battery only, insert the battery pack on the charging slot of the charger.

LED will indicate charging status.

- Red indicates charging
- Green indicates charging is completed



CHARGING THE BATTERY

CHARGING THE BATTERY WITH THE HANDSET

- 1 To charge the battery with the handset, insert the handset into the charger.



- Charging the battery with the handset on is less efficient than charging it with the handset off.
- If the red LED does not come on after the handset or battery has been inserted into the charging slot, re-insert or check power.



- Battery is not charged when you purchase the product.
- Fully charge the battery before use.

CHARGING THE BATTERY

CHARGING COMPLETION

1

Charging is completed when the LED turns green.



IMPORTANT BATTERY INFORMATION

Use only batteries and chargers approved by the phone manufacturer.

When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week; overcharging may shorten its life.

If left unused, a fully charged battery may completely drain (discharge) in 1 - 4 weeks.

Never use any charger or battery that is damaged or worn out.

Use the battery only for its intended purpose.

Do not short circuit the battery. Accidental short circuiting can occur when a metallic object (e.g. coin, clip or pen) causes direct connection of the two terminals of the battery (metal strips on the back of the battery), for example, when you carry a spare battery in your pocket or purse. Short circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, reduces the capacity and lifetime of the battery. Always try to keep the battery between 41°F and 95°F (5°C and 35°C). A phone with a hot or cold battery may temporarily not work (or charge) even if the battery is fully charged.

Temperature extremes affect the ability of your battery to charge; allow it to cool down or warm up first.

When the battery is not in use, store it uncharged in a cool, dark and dry place.

The battery is a sealed unit with no serviceable parts. Do not attempt to open the case.

It is recommended that you allow your battery to fully discharge before you recharge it.

The battery can be charged and discharged hundreds of times but will eventually wear out. When the operating time is shorter than normal, it is time to buy a new battery.

Do not dispose of a battery in a fire!

Dispose of used batteries in accordance with local regulations.

Recycle!

CHAPTER 2

BASIC OPERATION

- ❶ Turning the Phone On and Off
- ❷ How to Use the Menu
- ❸ Menu Summary
- ❹ Basic Functions
- ❺ Functions During a Call

TURNING THE PHONE ON AND OFF

TURNING THE PHONE ON

1

- Press and hold [END\☎]
- The phone is locked if "Lock Code" is displayed on the screen. When "Lock Code" is displayed, enter the 4-digit lock code to unlock the phone.
- The default lock code is the last 4 digits of your phone number.

TURNING THE PHONE OFF

1

- Press and hold [END\☎] until "POWER-ING OFF" is displayed.



- If the "LOW BATTERY WARNING POWER OFF" is displayed and the power goes off, there is a possibility of damaging the memory. Change or charge the battery immediately
- If the battery is removed while the phone is on, it may erase last call information.

HOW TO USE THE MENU

1

In the standby screen, press and hold [MENU] for 1 second to access the menu.

2

In the menu, use scroll keys to view the menu selections. If you press and hold the scroll keys, the menu scrolls automatically. Use the following to scroll:
[*▲], [#▼], volume [+], volume [-], located on side of handset.

3

To go back to previous screen, press [CLR].
To the exit menu, press [END\☎]

4

To go into submenu press the corresponding number or select the desired item using the scroll key. Then press [END\☎].

5

[MENU], [Ⓜ], [☎], and [SEND] can be used while using the menu.

MENU SUMMARY

1 : SETTING

- ▶ 1 : AUTO RETRY 1 : INTERVAL (OFF, 5, 10, 20, 30 sec)
- 2 : REPEAT (1, 5, 10 Times)
- 2 : AUTO ANSWR OFF, 2, 4 Times
- 3 : AUTO HYPHN ON/OFF
- 4 : OPEN TO ANS YES/NO
- 5 : DTMF LNGTH SHORT/LONG
- 6 : ONE TOUCH ON/OFF
- 7 : VOICE PRIV STANDARD/ENHANCED

2 : DISPLAY

- ▶ 1 : DSPLY TIME ON/OFF
- 2 : BANNER TYPE BANNER
- 3 : LCD CONTST ADJUST LCD CONTRAST
- 4 : BACK LIGHT 1 : AUTOLIGHT ON/OFF
- 2 : LENGTH (OFF, 5, 10, 15 sec)

3 : VOLUME

- ▶ 1 : RING TYPE TYPE 1-15
- 2 : RINGER LEVELS 1 TO 3, SILENT, VIBRATOR, LED+BACKLIGHT, LED ONLY
- 3 : EARPICCE EIGHT SETTINGS
- 4 : KEYPAD SILENT, LEVELS 1 TO 4
- 5 : HANDSFREE EIGHT SETTINGS
- 6 : CONNECT OFF, LOW, MID, HIGH
- 7 : MY MELODY 1 : EDIT
- 2 : LISTEN

4 : TIMERS

- ▶ 1 : CALL TIMERS 1 : LAST CALL (hr/min/sec)
- 2 : ALL CALLS (hr/min/sec) (calls)
- 3 : HOME CALLS (hr/min/sec) (calls)
- 4 : ROAM CALLS (hr/min/sec) (calls)
- 2 : ALARM 1 : ACTIVATE (on/off)
- 2 : ALARM ONLY (view/edit)
- 3 : ALARM CALL (view/edit)

MENU SUMMARY

5 : BIO RHYTHM

- ▶ 1 : TODAY BIO
- 2 : SOMEDAY BIO SET DATE
- 3 : BIRTHDAY BIRTHDAY

6 : ALERTS

- ▶ 1 : MIN ALERT ON/OFF
- 2 : FADE ALERT ON/OFF
- 3 : ROAM ALERT ON/OFF
- 4 : LOW SIGNAL ON/OFF

7 : PHONE INFO

- ▶ 1 : PHONE #
- 2 : VERSION SW/HW VERSION

8 : SECURITY

- ▶ 1 : LOCK 1 : AUTOLOCK (on/power on/off)
- 2 : CHANGE CODE
- 1 : INCOMING (allow, restrict)
- 2 : OUTGOING (allow, restrict)
- 3 : KEYPAD (allow, restrict)
- 4 : MEMORY ONLY (allow, restrict)
- 3 : RESET YES/NO
- 4 : CLEAR 1 : STORED #S (no, yes)
- 2 : ALARM (no, yes)
- 3 : HOME CALLS (no, yes)
- 4 : ROAM CALLS (no, yes)

📖 MENU

- ▶ 1 : PHONE BOOK 1 : BY LOCATION
- 2 : BY NAME
- 2 : CALL LOGS 1 : MISSED CALL
- 2 : ANSWERED CALL
- 3 : DIALED CALL

MENU DURING CALL

- ▶ 1 : SENT PHONE #
- 2 : SCRATCH PAD
- 3 : MUTE
- 4 : VOICE PRIV

PAUSES

- ▶ 1 : HARD PAUSE
- 2 : TIME PAUSE
- 3 : ONE HYPHEN

BASIC FUNCTIONS

MAKING A CALL

1

Enter the phone number.

How to modify the phone number you have entered:

- To erase the last number entered: Press **[CLR]**.
- To erase all numbers entered and start again: Press **[CLR]** and hold for more than half of a second.



2

Press **[SEND]**.

- "CALL FAILED" message is displayed when the call does not connect.
- If the line is busy, press **[END\⏏]**. Retry by pressing **[SEND]**. **[SEND]**
- If you select the AUTO RETRY function, the call will be retried automatically for the time you have selected.

Press **[END\⏏]** to end the call.

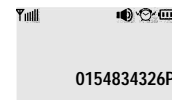
BASIC FUNCTIONS

PAUSE FEATURE

Pauses are used for automated systems (i.e., voice mail and calling cards). To insert Pauses:

1

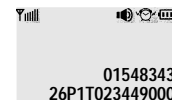
Enter phone number, then press **[MENU]**.



2

Select desired pause.

- 1 : Hard Pause
- 2 : Time Pause
- 3 : One Hyphen



Pause Definitions

- **HARD PAUSE:** If you enter the pause character (P), the number entered after the Pause character will be sent after the number dialed.
- **TIME PAUSE:** If you enter the pause character (T), the number entered after the pause character will be sent out automatically in three seconds.

3

- Press **[SEND]** to dial or **[STO]** to store.

BASIC FUNCTIONS

HOW TO ANSWER CALLS

1 When phone rings or LED blinks press any key except Volume or **[END\0]**.

2 To end the call, press **[END\0]**.

OPEN TO ANS

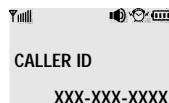
This function allows an incoming call to be answered by opening the flip cover. To enable this function press **[MENU]**, [1], [4] and select [YES].



If you set up the AUTO ANSWER function in advance, the call will be answered after the selected number of rings. (Refer to page 36)

CALLER ID FUNCTION

When there is an incoming call, the caller's phone number is displayed on the screen.



- The Caller ID number is saved in the call log.
- Customer needs to subscribe to service.

CALL WAITING FUNCTION

This function notifies you there is an incoming call when you are on the phone.

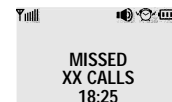
- To answer the call, press **[SEND]** when you hear the beep.
- To switch back to the first caller, press **[SEND]** again.

BASIC FUNCTIONS

MISSED CALL DISPLAY

1 Displays the number of missed calls and the time the call was missed.

- The message will be cleared when you press the **[CLR]** or **[END\0]** key.



HOW TO ADJUST VOLUME

You can adjust the volume in two ways: by using the volume control keys on the side of the handset, or by using the menu.

1 Adjust volume by using the volume control keys during the following operation.

- During a Call : Earpiece volume adjustment.
- Standby Status : Ringer volume adjustment.
- When the Phone Rings : Ringer volume adjustment.
- Call status in hands-free : Hands-free volume adjustment. Press **[END\0]** when the phone rings and it will mute the ringer.

VIBRATOR

This function disables the ringer and vibrates the phone any time an incoming call is in process. To enable this function press **[MENU]**, [3], [2] and select VIBRATOR or by pressing the “up” and “down” keys at the left upper side of the phone.

FUNCTIONS DURING A CALL

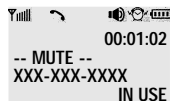
SCRATCH PAD

1 While in a call press and hold **[MENU]** , then **[2]** “SCRATCH PAD”.

2 Enter the phone number, then press **[STO]** .

MUTE

1 Press and hold **[MENU]** , then **[3]** “Mute”.



To unmute, press **[MENU]** .

CHAPTER 3

MEMORY FUNCTION

- 1 How to Store a Phone Number
- 2 How to Make a Call Using a Stored Phone Number
- 3 How to Find Your Call Logs
- 4 How to Find Your Phone Book

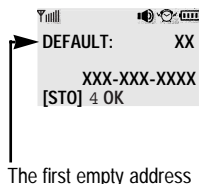
HOW TO STORE A PHONE NUMBER

You can store up to 100 frequently used phone numbers in memory.

1 Enter the phone number you want to store and press **[STO]** .

- The first available Initial empty memory location number is displayed. If there is no empty location, "MEMORY SPACE IS FULL!" is displayed with a warning sound.

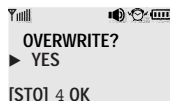
- If there is a desired memory location number, enter the number.



2 If the "OVERWRITE?" message appears after entering the memory location number, it means there is another stored phone number in that location already.

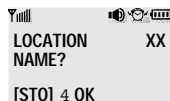
Select "YES/NO" and press **[STO]** .

- Yes: Deletes the previously stored number and stores the new one.
- No: Keeps the previously stored number.

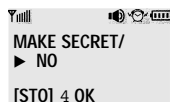


3 Enter the person's name and press **[STO]** .

- To make secret, select Yes. It can then be displayed only when the lock code is entered.



4 Press **[STO]** .



HOW TO STORE A PHONE NUMBER

How to Enter Letters and Characters Using the Dial Buttons

1 Select characters you wish to enter using the key pad.

Key Pad	1 Repetition	2 Repetition	3 Repetition	4 Repetition	5 Repetition
1	1				
2ABC	A	B	C	2	
3DEF	D	E	F	3	
4GHI	G	H	I	4	
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

- Press **[MENU]** to toggle between upper and lower case.
- When entering special characters such as 0.,?!@_+={}#;:'"/, press **[0]** repeatedly. The special characters will be displayed in order.
- 2** Press **[#▼]** to enter the next character.
 - Cursor moves to the next column automatically in two seconds after the next character.
- 3** Repeat until all the characters you want are entered.
 - You can store up to 14 characters.
- 4** Erasing Entry:
 - To erase one letter, press **[CLR]** .
 - To erase the entire entry, press and hold **[CLR]** .

HOW TO MAKE A CALL USING A STORED PHONE NUMBER

ONE TOUCH/TWO TOUCH DIALING

This feature allows the phone book entries to be dialed via the keypad.

ONE TOUCH DIALING:

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

TWO TOUCH DIALING:

00, 10-99 : press the first digit and second digits of the memory number short and long respectively.

- If no phone number is stored in the location depressed, "Empty Location" will appear on the screen.
- If a phone number is stored in the secret location, the number is not displayed when making a call.



One touch dialing must be turned on in the handset. See page 37.

HOW TO FIND YOUR CALL LOGS

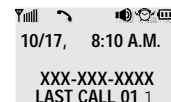
Your phone can display the 10 most recent missed, incoming, outgoing calls.

MISSED CALLS

1

Press [] then [2] then [1]

- The last missed call, its phone number, time and date are displayed.



2

To check your missed calls using the scroll keys:

- [] Scrolls up the phone numbers.
- [] Scrolls down the phone numbers.

3

Press [**SEND**] to dial desired missed call number.

HOW TO FIND YOUR CALL LOGS

ANSWERED CALLS

- 1 Press [📖] then [2] then [2].
 - The last answered call, its phone number, time and date are displayed.

- 2 To check your answered calls using the scroll keys:
 - [⬆️] scrolls up the phone numbers.
 - [⬇️] scrolls down the phone numbers.

- 3 Press [SEND] to dial desired answered call number.

OUTGOING CALLS

- 1 Press [📖] then [2] then [3]. Press [SEND] to dial desired answered call number.
 - The last outgoing call, its phone number, time and date are displayed.

- 2 To check your outgoing calls using the scroll keys:
 - [⬆️] scrolls up the phone numbers.
 - [⬇️] scrolls down the phone numbers.

- 3 Press [SEND] to dial desired outgoing call number.

HOW TO FIND YOUR PHONE BOOK

RECALLING BY MEMORY LOCATION NUMBER

- 1 Press [📖] then [1] then [1].

RECALL
LOCATION?
12 OF TOTAL XXX
[STO] 4 OK

- 2 Enter the memory location number.
 - If you don't enter a specific memory location number, use the scroll key to search from the first memory location number or the side volume keys to scroll up & down

- 3 Search phone numbers using scroll key.
 - [⬆️] scrolls up the phone numbers.
 - [⬇️] erase or edit the phone #.

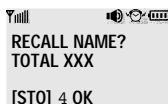
- 4 Press [SEND] to dial desired phone book number.

HOW TO FIND YOUR PHONE BOOK

RECALLING BY NAME (ALPHA)

1 Press [📖] then [1] then [2].

2 Enter the alpha (or part of the alpha).
Then press [STO].



3 To locate the phone number using the scroll key.

- [*▲] scrolls up the phone numbers.
- [#▼] erase or edit the phone #.

4 Press [SEND] to dial desired phone book number.

HOW TO FIND YOUR PHONE BOOK

RECALLING BY NUMBER

1 Enter a phone number (at least 3 digits of the number) you want. After entering the number, press [📖].

2 To locate the phone number using the scroll keys.

- [*▲] scrolls up the phone numbers.
- [#▼] erase or edit the phone number.

3 Press [SEND] to dial desired phone book number.



- "LOCK CODE" message with name appears when the phone number is stored using the secret function. To release secret function, press 4-digit lock release code.
- To edit the number, press [MENU], enter the number, then the user can store the number or press [SEND] to call.

CHAPTER 4

MENU

Please read this chapter before using this product.

- ❶ Settings
- ❷ Display
- ❸ Volume
- ❹ Timers
- ❺ Bio-Rhythm
- ❻ Alerts
- ❼ Phone Info
- ❽ Security

SETTINGS

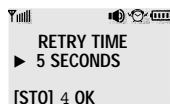
AUTO RETRY

When a call is not connected, this function retries the call automatically at a set interval or amount or retries.

INTERVAL

1 Press **[MENU]** then **[1]** then **[1]** then **[1]**.

2 Select the parameter (5 SEC, 10 SEC, 20 SEC, 30 SEC, OFF) by using the scroll key. Press **[STO]**.



REPEAT

3 Press **[MENU]** then **[1]** then **[1]** then **[2]**.

4 Select the parameter (1, 5, 10) by using the scroll key. Press **[STO]**.

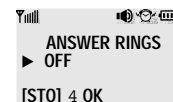
SETTINGS

AUTO ANSWER

This function answers an incoming call automatically after a number of rings that the user sets.

1 Press **[MENU]** then **[1]** then **[2]**.

2 Select the parameter (OFF, 2 RINGS, 4 RINGS) by using the scroll keys. Press **[STO]** to set.



- Auto answer function work only if linger volume is turn on.

AUTO HYPHEN

1 Press **[MENU]** then **[1]** then **[3]**

2 Select the parameter (ON, OFF) by using the scroll keys. Press **[STO]**.

OPEN TO ANSWER

1 Press **[MENU]** then **[1]** then **[4]**

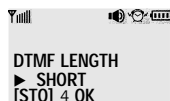
2 Select the parameter (ON, OFF) by using the scroll keys. Press **[STO]**.

SETTINGS

DTMF LENGTH

This controls the length of the DTMF tone.

- 1 Press **[MENU]** then **[1]** then **[5]**.



- 2 Select the parameter (SHORT, LONG) by using the scroll keys. Press **[STO]**.

ONE TOUCH DIALING

This feature allows you to make phone calls quickly & easily with the touch of a button.

- 1 Press **[MENU]** then **[1]** then **[6]**

- 2 Select the parameter (ON, OFF) by using the scroll keys. Press **[STO]**.

VOICE PRIVACY

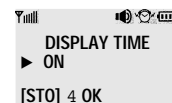
- 1 Press **[MENU]** then **[1]** then **[7]**

- 2 Select the parameter (STANDARD, ENHANCED) by using the scroll keys. Press **[STO]**.

DISPLAY

DISPLAY TIME

- 1 Press **[MENU]** then **[2]** then **[1]**.

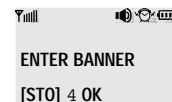


- 2 Select the parameter (ON, OFF) by using the scroll keys. Press **[STO]**.

BANNER

This function changes the banner displayed on the LCD. You can enter a banner up to 16 characters long.

- 1 Press **[MENU]** then **[2]** then **[2]**

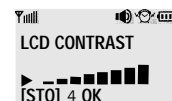


- 2 Enter a banner using instructions for alpha keys on page 25.

LCD CONTRAST

This function adjusts the LCD screen contrast.

- 1 Press **[MENU]** then **[2]** then **[3]**



- 2 Select the contrast level by using the scroll keys. Press **[STO]**.

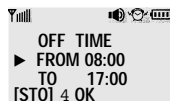
DISPLAY

AUTO LIGHTING FUNCTION

This allows you to have the LCD light turned on only during certain hours to conserve the battery power. Between hours that you select, the LCD light will not be turned on.

1 Press **[MENU]** then **[2]** then **[4]** then **[1]**.

2 Select the parameter (ON, OFF) by using the scroll keys. Press **[STO]**.



3 Enter the time if you selected "ON".

- Default parameters are set from 8 a.m–5 p.m.
- To change the time use the scroll keys to select desired hour then press **[STO]** to move to minutes, scroll to desired minutes.

4 Press **[STO]**.

LIGHTING LENGTH

This function allows you to adjust time to light up the screen, so that you can conveniently use the phone even in dark places.

1 Press **[MENU]** then **[2]** then **[4]** then **[2]**

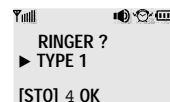
2 Select the parameter (OFF, 5 SEC, 10 SEC, 15 SEC) by using the scroll keys. Press **[STO]**.

VOLUME

RINGER TYPE

1 Press **[MENU]** then **[3]** then **[1]**.

2 Select the parameter (1-15) by using the scroll keys.



- 7 Different tones (1-7).
- 8 Different melodies (8-15).

3 Press **[STO]**.

VOLUME

VOLUME ADJUSTMENT

1 Press **[MENU]** then **[3]** enter a number (from **[2]** to **[6]**) that corresponds to selection (ringer, earpiece, keypad, handsfree, and connect).

- If the warning alarm sounds because of low battery, the sound will not be heard even if the user presses the button.

2 Select the volume level by using the scroll keys.

- **[*▲]** scroll up to increase volume.
- **[#▼]** scroll down to lower volume, or setting to Silent, LED + Backlight, LED only.

3 Press **[STO]**.

TIMERS

LAST CALL

1 Press **[MENU]** then **[4]** then **[1]** then **[1]**

ALL CALLS

1 Press **[MENU]** then **[4]** then **[1]** then **[2]**

HOME CALLS

1 Press **[MENU]** then **[4]** then **[1]** then **[3]**

ROAM CALLS

1 Press **[MENU]** then **[4]** then **[1]** then **[4]**

BIO-RHYTHM

This function identifies the bio-rhythms of today or a specific day using solar calendar.

1 Press **[MENU]** then **[5]** then **[1]**.

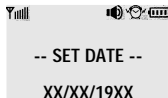
2 Press key **[3]** "BIRTHDAY".

- Enter your solar calendar birthday in year/month/date, and then press **[STO]**.



1: TODAY BIO
2: SOMEDAY BIO
3: BIRTHDAY

3 To find out today's bio-rhythm, select TODAY BIO and to find out bio-rhythm of a specific day, select SOMEDAY BIO.



-- SET DATE --
XX/XX/19XX

- Bio-rhythm function is available only when the phone can register the current time from the network system.
- For Some Day Bio, you cannot enter the dates before your birthday.
- For Birthday, you cannot enter the dates later than today's date.



	XXXXX	DAYS	OLD
P			+98
E			+98
I			-98

- Physical, Emotional and intelligent quotients appear with a number showing how many days have passed since your birth date for the date you want to find out Bio-rhythm displayed on the top portion of the screen.

What is Bio-rhythm?

Bio-rhythm is a life rhythm which is governed by three rhythm curves called physical, emotional, and intelligent and starts from our body from our birth to death.

1 Physical rhythm

- This rhythm controls wide-ranging physical elements related to resistance to diseases, physical strength, adjustment of muscle exercise, speed, physiology and other basic physical functions with a cycle of 23 days.

2 Emotional rhythm.

- This rhythm adjusts creativity, sensitivity, mental health and recognition about world and humans with a cycle of 28 days.

3 Intelligent rhythm.

- This rhythm affects our memory, susceptibility to fright, acceptance of knowledge and logical and analytic power with a cycle of 33 days.

ALERTS

MINUTE ALERT

1 Press **[MENU]** then **[6]** then **[1]**.

This function sounds an alert in every minute, letting you know the call lapse time.



MIN ALERT
▶ OFF
[STO] 4 OK

2 Select the parameter (ON, OFF) by using the scroll keys. Press **[STO]**.

FADE ALERT

This function sounds alert when the phone can't make calls due to poor signal strength.

1 Press **[MENU]** then **[6]** then **[2]**.



FADE ALERT
▶ OFF
[STO] 4 OK

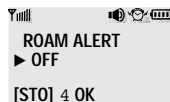
2 Select the parameter (ON, OFF) by using the scroll keys. Press **[STO]**.

ALERTS

ROAM ALERT

This function sounds an alert and gives out a message when the handset enters a new service area, when it enters another service area, or when it leaves the user's service area.

- 1 Press **[MENU]** then **[6]** then **[3]**.

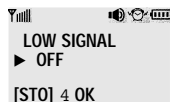


- 2 Select the parameter (ON, OFF) by using the scroll keys. Press **[STO]**.

LOW SIGNAL

This function sounds an alert when the signal of a received call is weak.

- 1 Press **[MENU]** then **[6]** then **[4]**



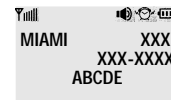
- 2 Select the parameter (ON, OFF) by using the scroll keys. Press **[STO]**.

PHONE INFO

CHECKING MY NUMBER

This is a function to check the telephone number of the handset currently in use.

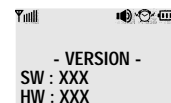
- 1 Press **[MENU]** then **[7]** then **[1]**. or Press and hold **[#▼]** for 2 seconds and your phone number will be displayed.



CHECKING THE PHONE VERSION

This function checks the version of the handset currently in use.

- 1 Press **[MENU]** then **[7]** then **[2]**



CHAPTER 5

SECURITY FEATURES

- ❶ How to Lock Your Phone
- ❷ How to Restrict Your Phone
- ❸ How to Reset Your Phone
- ❹ How to Clear Your Phone Memory

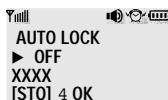
HOW TO LOCK YOUR PHONE

AUTO LOCK

This function prevents any other person from using the handset without permission. When it is locked, the handset can't be used to dial or use any other function.

- 1 Press **[MENU]** then **[8]** then enter [Lock Code] then **[1]** then **[1]**.

- The default lock code is the last 4 digits of your phone number.



- 2 Select the parameter (ON, POWER ON, OFF) parameter by using the scroll keys. Press **[STO]**.

- "ON" locks the handset immediately.
- "POWER ON" locks the handset upon powering on the handset each time.
- "OFF" unlocks the handset and leaves it unlocked.



Incoming calls, emergency dialing and alarm functions are enabled when the handset is locked.

HOW TO LOCK YOUR PHONE

LOCK CODE CHANGE

This function is used to change the 4-digit lock code.

- 1 Press **[MENU]** then **[8]** then enter **[LOCK CODE]** then **[1]** then **[2]**.

- The default lock code is the last 4 digits of your phone number.

- 2 Enter 4-digit new lock code.

- 3 Re-enter the new lock code. Press **[STO]**.

- 4 The display will read lock code changed.

HOW TO RESTRICT YOUR PHONE

RESTRICTION FUNCTIONS

You can restrict six different functions.

- 1 Press **[MENU]** then **[8]** then enter [Lock Code] then **[2]**.
 - The default lock code is the last 4 digits of your phone number.

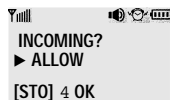


- 2 Using the scroll buttons, select "YES".
Press **[STO]**.

TO RESTRICT INCOMING CALLS

When this function is enabled, the phone does not respond to incoming calls. However, outgoing calls can still be made.

- 1 Press key **[1]** "INCOMING".



- 2 Select the parameter by using the scroll keys.
RESTRICT: to restrict incoming calls.
ALLOW: to allow incoming calls.

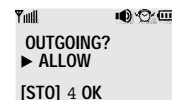
- 3 Press **[STO]**.

HOW TO RESTRICT YOUR PHONE

RESTRICTING OUTGOING CALLS

When this function is enabled, incoming calls can be answered, but outgoing calls cannot be made. It is still possible to make emergency calls.

- 1 Press key **[2]** "OUTGOING".



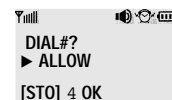
- 2 Select the parameter by using the scroll keys.
RESTRICT: to restrict outgoing calls.
ALLOW: to allow outgoing calls.

- 3 Press **[STO]**.

RESTRICTING THE KEY PAD

This function locks the key pad.

- 1 Press key **[3]** "KEY PAD".



- 2 Select the parameter by using the scroll keys.
RESTRICT: locks the key pad.
ALLOW: unlocks the key pad.

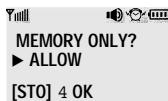
- 3 Press **[STO]**.

HOW TO RESTRICT YOUR PHONE

RESTRICTING THE PHONE BOOK

This function blocks the storage of phone numbers or the use of stored phone numbers.

- 1 Press key **[4]** "MEMORY ONLY".
 - The default lock code is the last 4 digits of your phone number.



- 2 Select the parameter by using the scroll keys.

RESTRICT: restricts phone book.
ALLOW: allows phone book use.

- 3 Press **[STO]**.

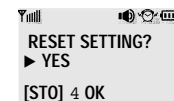


The message "THIS PHONE'S RESTRICTED" is displayed on the screen.

HOW TO RESET YOUR PHONE

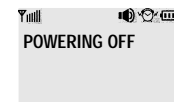
This function resets each value set in the memory to its default value.

- 1 Press **[MENU]** then **[8]** then **[Lock Code]** then **[3]**.



- 2 Select the parameter by using the scroll keys. Press **[STO]**.

- If you select "YES", the following screen is displayed, and then the phone will be automatically turned off.



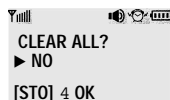
HOW TO CLEAR YOUR PHONE MEMORY

CLEARING STORED PHONE NUMBERS

This function clears all stored numbers.

- 1 Press **[MENU]** then **[8]** then enter [Lock Code] then **[4]** then **[1]**.

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



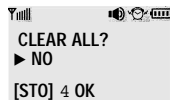
- 2 Select the parameter (NO, YES) by using the scroll keys. Press **[STO]**.

CLEARING ALARM CONTENTS

This function clears all alarm contents and reserved call information.

- 1 Press **[MENU]** then **[8]** then enter [Lock Code] then **[4]** then **[2]**.

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



- 2 Select the parameter (NO, YES) by using the scroll keys. Press **[STO]**.

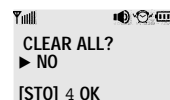
HOW TO CLEAR YOUR PHONE MEMORY

CLEARING AIR TIME IN HOME SERVICE AREA

This function clears air time used in home service area.

- 1 Press **[MENU]** then **[8]** then enter **[LOCK CODE]** then **[4]** then **[3]**.

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



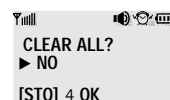
- 2 Select the parameter (NO, YES) by using the scroll keys. Press **[STO]**.

CLEARING AIR TIME IN OTHER SERVICE AREA

This function clears air time used in other service areas.

- 1 Press **[MENU]** then **[8]** then enter [Lock Code] then **[4]** then **[4]**.

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



- 2 Select the parameter (NO, YES) by using the scroll keys. Press **[STO]**.

CHAPTER 6

SUPPLEMENTARY FUNCTIONS

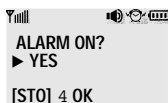
- ❶ Reserved Call and Alarm Setup
- ❷ Melody Setup Function

RESERVED CALL AND ALARM SETUP


This function sounds an alarm at the set time and displays alarm contents on the screen. In case of reserved call, you can use this function after acquiring the system.

ALARM SETUP

- 1 Press **[MENU]** then **[4]** then **[2]** then **[1]**.

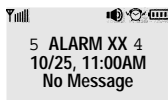


- 2 Select the parameter (ON, OFF) by using the scroll keys. Press **[STO]**.

- When you select "ON", the alarm setup,  sign is displayed on the screen.

CHECKING ALARM WARNINGS

- 1 Press **[MENU]** then **[4]** then **[2]** then **[2]** then **[1]**.



- 2 Select alarm location number using scroll keys.

- If there are more than 2 alarm warnings "5 4" is displayed.

If you set the answering status to silent (LED or LED + Backlight) mode, the handset will alert according to the setting at the designated time in alarm status.

RESERVED CALL AND ALARM SETUP

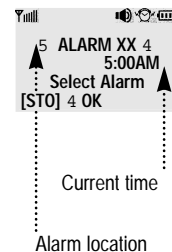
The alarm function sounds an alarm at a designated time. The alarm sound stops when the user presses any key except the Power key. The alarm will sound for 1 minute. The reserved call function will allow an alarm to sound. The user presses any key except the power key then the phone will automatically dial the number that the user set up.

ENTERING ALARM SETUP

- 1 Press **[MENU]** then **[4]** then **[2]** then **[2]** then **[2]**.

Using scroll keys, select the alarm location and press **[STO]**.

- Up to 10 alarm warnings can be entered.
- If there are more than 2 empty alarm locations, "5 4" sign is displayed.



- 2 After entering time, press **[STO]**.

- To move to next item, press **[STO]**.
- You can add or subtract number using scroll key.

- 3 Select either AM or PM by using the scroll key and press **[STO]**.



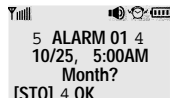
RESERVED CALL AND ALARM SETUP

4

Select the parameter by using the scroll keys.

- ONE TIME : the alarm sounds once at the designated time and date, and alarm contents get cleared after that.
- DAILY : The alarm sounds every day at the same time.
- When you enter the time and date, "OVERWRITE" message is displayed on the screen, that means identical information is already reserved.
- To clear previously reserved time and set the new time, press **[STO]**.
- To leave previously reserved time, select "NO" or press **[STO]**.

When you select ONE TIME



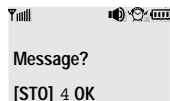
5 ALARM 01 4
10/25, 5:00AM
Month?
[STO] 4 OK

5

- Enter the date.
- Press **[STO]**.

5

Enter the character message to be displayed using the key pad. Press **[STO]**.



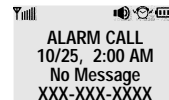
Message?
[STO] 4 OK

RESERVED CALL AND ALARM SETUP

CHECKING ALARM CALL

1

Press **[MENU]** then **[4]** then **[2]** then **[3]** then **[1]**.



ALARM CALL
10/25, 2:00 AM
No Message
XXX-XXX-XXXX

ENTERING CALL RESERVATION

1

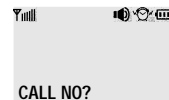
Press and **[MENU]** then **[4]** then **[2]** then **[3]** then **[2]**.

2

The input method for time, date, and message is identical to that of alarm select input.

3

Enter phone number.



CALL NO?

4

Press **[STO]**.



to clear entered alarm warning and call reservation, refer to page 55_.

MELODY SETUP

ENTERING MELODY

1 Press **[MENU]** then **[3]** then **[7]** then **[1]**.

2 Enter a melody via the key pad. Press **[STO]** after entering melody.

- By pressing the **[□□]**, the previously entered melody is played with musical note displayed on the screen.
- To end the melody, press **[CLR]**.
- You can edit previously entered melody.
- 'Ondalsem' is default melody.

3 Press **[STO]** after entering melody speed.

- Speed : 0-99
- Default tempo is 50



Press **[STO]** after entering the title of the melody

- If there is previously entered melody, "OVERWRITE" IS DISPLAYED.
- Select the parameter you want.
- Entered melody is added to the ringer type list.

4

MELODY SETUP

TO ENTER MELODY

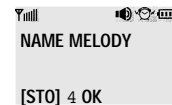
- When you press dial key **9**, a quarter note is displayed.
 - The dial keys **1, 2, 3, 4, 5, 6, 7, 8, 9, 0**, correspond to musical notes do, re, mi, fa, sol, la, ti, do, respectively.
- Select the length of tone by pressing **[*▲]** in sequence while the quarter note is displayed.
- When you press **[#▼]**, # sign is displayed under the musical note and it changes to a half note.
- To enter a pause, press **[*▲]** in sequence after pressing **[MENU]** and select the length of a pause.
- It is possible to move and edit musical notes by pressing volume keys **[-]/-+]**.
- To add musical notes while you edit, hold **[MENU]** and enter the note.
- To delete the note, press **[CLR]**.
- Press **[□□]** to play back the melody you've entered. Press **[CLR]** to stop.
- When you enter 11 notes, the screen moves to the next screen.
 - You can enter up to 100 notes.

LISTENING TO THE MELODY

1 Press **[MENU]** then **[3]** then **[7]** then **[2]**.

2 The title of melody is displayed and melody gets played.

- The melody gets replayed when pressing **[□□]**.
- Press **[CLR]** to stop the melody.
- If there is no entered message, 'Ondalsem' will be played.



CHAPTER 7

VOICE MAIL AND TEXT MESSAGES

This chapter describes convenient functions that allow you to check voice mail and receive text messages with the handset.

- ❶ Receiving a Message
- ❷ Checking Received Message (Voice and Text)

RECEIVING A MESSAGE

VOICE MAIL MESSAGE

1 When a voice message is received, the [✉] blinks on the screen and displays the following message.



NEW
VOICE MAIL
MESSAGES

- A message arrival is announced with a ringer or lamp as selected by the user.



Customer needs to subscribe to service

TEXT MESSAGE

1 When the handset receives a text message, and the [✉] blinks on the screen, the following message is displayed:



NEW MESSAGES
05:42PM

- A message arrival is announced with a ringer or lamp as selected by the user.
- A received text message can be up to 120 characters long.




Network dependent

CHECKING RECEIVED MESSAGE

CHECKING RECEIVED VOICE MAIL MESSAGE

1 Press [Ⓜ].



▶ 1 : VOICE MAIL
2 : TEXT

2 Press [1] "VOICE MAIL".

- It displays the number of voice mail messages currently received in your voice mailbox.
- To access your voice mailbox, press [SEND].



XX NEW MESSAGES
TO LISTEN
PRESS [SEND]
*86



Customer needs to subscribe to service

CHECKING RECEIVED MESSAGE

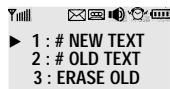
CHECKING RECEIVED TEXT MESSAGE

1 Press [F5].



2 Press [2] "TEXT".

- It presents the number of both new text messages and old text messages.



Network dependent

CHECKING NEW TEXT MESSAGE

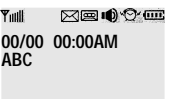
1 Press [1].

- The message list is displayed in order of receipt.



2 Select the message number you want by using the scroll keys, and press [F6].

- After a period of time, the next screen will automatically be displayed (auto scroll).
- You can also check the displayed message using the auto scroll keys.
- To delete a message, press [CLR].
- To save a message, press [STO]. Message will be stored in old text message.



Network dependent

CHECKING RECEIVED MESSAGE

CHECKING OLD TEXT MESSAGE

1 Press [2].

- The message list is displayed in order of receipt.



2 Select the message number you want by using the scroll keys and press [F6].

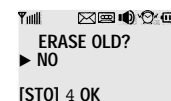
- After a period of time, the next screen will automatically be displayed (auto scroll).
- You can also check the displayed message using the scroll buttons.



Network dependent

ERASE OLD TEXT MESSAGES

1 Press [3].



2 Select the Parameter by using the scroll keys. Press [STO].



Network dependent

CHAPTER 8

SAFETY

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

Read This Information Before Using Your Handheld Portable
Cellular Telephone

EXPOSURE TO RADIO FREQUENCY SIGNALS

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

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

ANSI C95.1 (1992) *
NCRP Report 88 (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).

★ ;

American National Standards Institute;
National Council on Radiation protection and measurements;
International Commission on Nonionizing Radiation Protection.

ANTENNA CARE

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

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

DRIVING SAFETY

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

Also, if using your phone while driving please:

- Give full attention to driving. Driving safety 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 require.

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

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

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

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ELECTRONIC DEVICES

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

Pacemakers

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

If you have a pacemaker:

- 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.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ELECTRONIC DEVICES

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.

Vehicles

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

Posted Facilities

Turn your phone OFF where posted notices so require.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

OTHER SAFETY GUIDELINES

Aircraft

FCC Regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

Blasting Areas

To avoid interfering with blasting operations, turn your phone OFF when in a “blasting area” or in areas posted: “Turn off two-way radio.” Obey all signs and instructions.

Potentially Explosive Atmospheres

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

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