CDMA Fixed Wireless Phone
User Guide

Model: LSP-400

Please read this manual carefully before operating your set.
Retain it for future reference.

REVISED HISTORY

DATE	VERSION	CONTENTS OF CHANGES	REMARK
2005/05	1.0	Initial Release	

Highlights

Congratulations on your subscription to the LSP-400Fixed Wireless Phone. This phone has been designed to operate on the latest digital mobile communications technology CDMA 2000 1x. It has greatly enhanced voice clarity and provides various advanced features.

Key phone features:

- 3-line LCD Display with status indicator
- 12 Polyphonic sound
- Ring tones: Choose from 15 melodies
- Large Phone Book with 300 entries
- Speed Dialling for upto 300 numbers
- 3 Way call conferencing
- 50 messages can be stored in INBOX and OUTBOX
- 50 numbers call history
- Last number redial
- Hands free Speaker Phone
- Receiver Off-Hook tone
- Adjustable Ring volume, Key volume, Earpiece volume
- Fast charging battery

CONTENTS

1. Important Information 5
1.1 Safety Instruction 5
1.2 Optimal Phone Performance 5
1.3 Care and Service 6
1.4 Safety Information 7
2. Introduction 10
2.1 Front View of the Phone 10
2.2 LCD Display 11
2.3 Installation 11
2.3 Installation 12
2.4 Installation Steps 15
3. Basic Operations 16
3.1 Making a Call 16
3.2 3 way call conferencing 16
3.3 Call Wait 16
3.4 Volume Control 17
3.5 Receiving a Call 17
3.6 In Call Memo 17
3.7 Lock Mode 18
4. Menu Tree 19
4.1 MENU 21
4.2 MESSAGE 32
4.3 FIND 37
5. Speaker Phone 40
6. Troubleshooting 41
7. General Information 42
7.1 Main Unit 42
7.2 AC/DC Adapter 42
7.3 Battery 42
Appendix FCC RF Exposure Information 43

1. Important Information

1.1 Safety Instruction

WARNING / CAUTION

To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture. Do not use this unit in swimming pools or other water bodies.

1.2 Optimal Phone Performance

- Do not hold the antenna when operating the unit, or operate the unit when someone is within four inches (ten centimeters) of the antenna. Both cases affect the call quality and may cause the phone to operate at a higher power level than required.
- For the best call quality, keep the antenna free from obstructions and position the antenna upright.
- Do not use the unit if the antenna is damaged. Replace the damaged antenna immediately by a qualified technician. Use only a manufacturer-approved antenna.

  Non-approved antennas, modifications or attachments may impair call quality and damage the unit.
- RF energy may affect improperly installed or inadequately shielded personal medical devices such as pace-makers or hospital monitors. Consult the manufacturer of any personal medical devices to determine whether they are adequately shielded from external RF energy. Turn your unit OFF in health care centers if any regulations posted in the area instruct you to do so. Hospitals or health care centers may be using equipment that may be sensitive to external RF energy.
- If this unit causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna
- Place the radio or television farther away from the unit.
- Connect the equipment to an outlet on a circuit different from that to which the unit is presently connected.
- Consult the Authorized LGE Dealer for assistance of an experienced radio/TV technician.
- Use battery, antenna and AC power supply provided by LGE. Using spares made by any other manufactures may invalidate the warranty.

- Only authorized personnel should service the unit and its accessories. Faulty installation or service can be dangerous and may invalidate the warranty.
- Do not use the unit in any designated "no cellular phone use" area.
- Avoid using the unit in high temperature or humidity.
- Avoid spilling any liquid on the unit. If the unit gets wet, turn the power off immediately and remove the backup battery and AC power supply. If the unit doesn't work, please contact the service provider immediately.
- Avoid shock or impact.
- We recommend you to charge the backup battery before initial use. The backup battery may be discharged during delivery.

1.3 Care and Service

Before cleaning, always unplug the unit from the wall outlet and remove the antenna (or disconnect the antenna cable). Do not use liquid or aerosol cleaners; use a damp cloth for cleaning.

If the unit doesn't work, do not attempt to disassemble it; contact the phone service agent for assistance.

If any of the following conditions exist, unplug the unit from the wall plug, remove the battery and call the qualified engineer.

- The power supply cord is damaged or frayed.
- Liquid has spilled into the unit.
- The unit has been exposed to rain or water.
- The unit has been dropped or damaged.
- The unit does not function normally even after following the operating instructions.

1.4 Safety Information

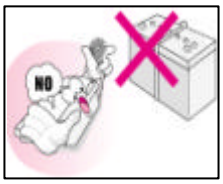
WARNING

✍ For safety, use only an adapter approved by LG.
LG does not bear responsibility for any faults that may arise due to non- conformation to this guide.
Example: LSP-400
(LG Power Adapter Source: DC 5V / 1A)

✍ Do not, in any way, cause a short-circuit. It may start a fire or the unit may explode causing injury.

✍ Do not create a sudden impact on the battery by throwing it. Do not dispose off batteries by putting them in a fire. They may explode or catch fire due to the electrolyte within.

CAUTION



✍ Do not use the unit with a car battery. It may cause electric shock, fire, breakdown or transformation.

✍ Avoid using the unit in high temperature or humidity. Avoid spilling any liquid on this unit. If the unit gets wet, turn off immediately AC power supply.

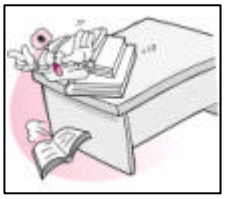
✍ Keep the unit dry. Submersion, humidity, and liquids contain minerals that may corrode internal electronic circuits.

✍ Do not store or use the unit in dusty or dirty areas as this can damage the moving parts.

✍ Do not store the unit in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

✍ Do not store the unit in cold areas. When the unit warms upto its normal operating temperature, moisture can form inside the unit, which can damage the internal electronic circuit boards.

✍ Do not attempt to open it. Non-expert handling of the device could damage it. It may cause fire, electric shock and breakdown. Consult your authorized LG dealer for assistance.



✍ Do not drop, knock or shake the unit. Rough handling may break the internal circuit boards.

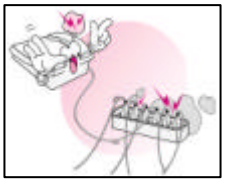
✍ Do not use harsh chemicals, cleaning solvents or strong detergents to clean the unit. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.

✍ Do not paint the unit. Paint can clog the device's moving parts and prevent proper functioning.

✍ During lightning, do not touch the power plug or the phone line. It may result in an electric shock or death.

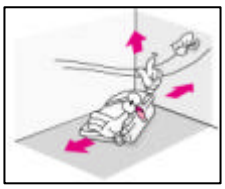
✍ Do not install the unit under direct sunlight or on an uneven surface.

✍ Before using the plug, check the available power voltage. Inaccurate power voltage may cause fire and damage.
Example: LSP-400Input Voltage: 100 ~ 240V.



✍ Do not plug many power cords into one outlet. It may cause fire or electric shock.

✍ Do not remodel the power cord or disassemble it. If the power cord or plug is impaired, do not use it. It may cause fire or electric shock



✍ Do not install the unit in an ill-ventilated place. It may cause fire or a breakdown.

✍ Do not touch the plug with wet hands. When disconnecting the power cord of any accessory, grasp and pull out the plug itself and not the cord. It may cause fire or electric shock.

✍ Do not put heavy objects on the power cord. Do not bend the power cord too much. It may cause fire or electric shock

✍ Use only an LG-approved battery and adapter. If not, it may cause an explosion or result in a short-circuit. LG does not bear any responsibility for the damage.

✍ When you disconnect the power cord of any accessory, grasp and pull the plug itself and not the cord. It may cause the adapter to breakdown.

2. Introduction

2.1 Front View of the Phone

① Soft key 1 : Activates MAIN MENU state

② Message : Activates SMS MENU state

③ END/PWR : Escape from the any MENU state, Power ON / OFF

④ Soft key 2 : Activates FIND MENU state

⑤ (↴) : Moves down in the MENU or Volume DOWN

⑥ (↴) : Moves up in the MENU or Volume UP

⑦ Clear : Deletes the last digit / Moves previous MENU

⑧ Dial/Flash : Activates Dial or Flash state, View Call History

⑨ Activates hands free speaker phone function

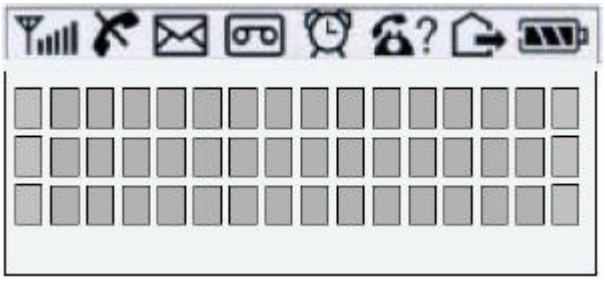
⑩ MIC : Microphone for hands free speaker phone function

⑪ Attached Antenna

2.2 LCD Display

The LCD shows icons on the top of the LCD screen.

Different indicators appear based on the phone's operating mode.



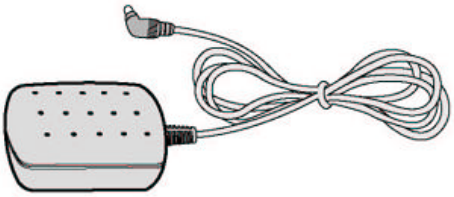
LED	Operating Condition
	RSSI indicator: Indicates the signal strength in the service area.
	No service: The phone is not receiving any system signal.
	In use: Displayed when a call is in progress or the phone is in off-hook and dial tone is heard.
	Text message: Displayed when a text message is received.
	Voice message: Displayed when a voice message is received.
	Alarm: Displayed when alarm time is set.
	Caller ID: Displayed when caller ID is received.
	Not used
	Battery charge level: Indicates charged battery level.

2.3 Installation

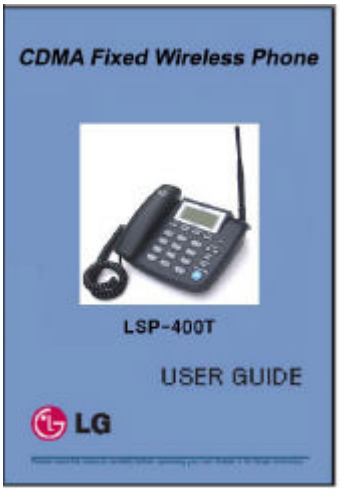
You should follow each step carefully as shown below in order to guarantee the proper operation of CDMA Fixed Wireless Phone.

Main Unit

Dipole Antenna



AC/DC Power Adapter



User Guide

STEP I. Check Components

✍ The following components are supplied Fixed Wireless Phone.

1. LSP-400Main Unit with Handset (Including inner backup battery) -1EA-
2. Dipole Antenna -1EA-
3. AC/DC Power Adapter -1EA-
4. User Guide -1EA-

✍ Please make sure that these components are present before you begin to install the unit. If any of the components are missing or damaged, contact your service provider immediately.

STEP II. Place the Terminal

✍ Place the unit on the stable flat surface area (desk, table, etc.). Serious damage may result if the unit is dropped. Do not place the unit within 1 meter of heaters or radiators.

This unit is designed for desktop usage. Avoid the direct exposure to sunlight and dampness.

✍ Read the SAFETY INFORMATION located in the first part of this document before you place the unit.

STEP III. Connect Components (Please refer to “Installation Steps” in 2.4)

✍ Connect the antenna to the TNC antenna connector located at the top of the unit. If you have placed the unit on a flat surface, position the antenna upright.

✍ Connect the curl cord of the handset to the RJ-11 port located on the left side of the unit.

✍ Connect the AC/DC Adapter cable to the DC input port located at the top of the unit.

✍ If it is correct, a beep tone will be heard.

✍ If it is not correct (Booting fails or beep tone is not heard), you will have to reconnect the adapter or reset the battery switch to “on”.

✍ Please observe the following to get better voice quality

1. Keep away from electrical appliances such as TV, computer, radio etc.
2. Keep the unit in a high and central location without any obstructions.

3. Raise the integral antenna of the unit to get maximum strength as shown in the figure.

STEP IV. Check the LCD Display

✍ After you follow the installation instruction step I to step III, please check the LCD for normal operation.

✍ If you do not see the status of service, please repeat the 4th instruction of step III. Then confirm the status of phone to get the proper signal strength from the service operator system.

2.4 Installation Steps

Please follow the procedure below to install the unit properly.

Connect base-handset to the handset connector.

Connect the antenna to the TNC connector (Turn right).

Turn the antenna upright.

When you first use the unit, please Turn “on” the battery switch.

Connect the AC power supply.

Press END/PWR button to operate initially.

Notice:

?? Before using the unit, please check that the battery switch is “on”.
?? After switching it on, use the phone.
?? When charging the battery, check that the battery switch is “on”.
?? The battery will be charged only when the battery switch is “on”.

3. Basic Operations

3.1 Making a Call

You can make a call as follows.

1. Pick up the handset or press button.
2. Listen for dial tone.
3. Enter the phone number with area code if needed.
4. Wait for the Auto Time-out.
5. The call is connected and you may start conversation.
6. To disconnect the call, replace the handset or press button.

When the user presses the **Dial/Flash** button after dialing any desired number, if the user picks up the handset or presses the **Speaker Phone** button, the phone makes a call immediately.

3.2 3 way call conferencing

You can start tripartite conversation.

1. Enter the phone number of the 2nd party phone while you are in telephonic conversation with 1st party.
2. Press **Dial/Flash** button.

This service should be provided by your service provider.

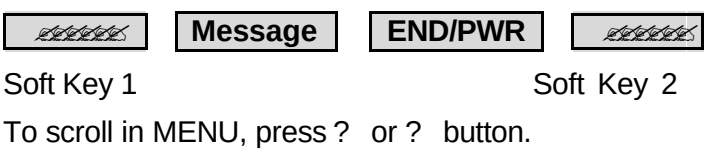
3.3 Call Wait

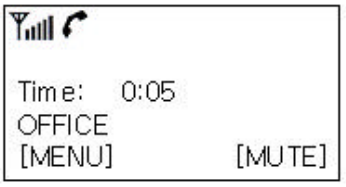
While a call is in progress, you may hear two beeps indicating another incoming call. When call wait is enabled, you may put the active call on hold while you answer the other incoming call.

1. Press **Clear** or **END/PWR** button, Call Wait window then disappears.
2. Press **Dial/Flash** button, you may start conversation with called number.
3. Re-press **Dial/Flash** button, you may start conversation with previous number.

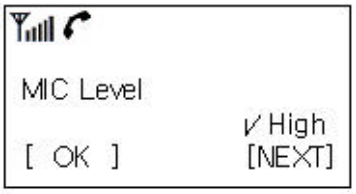
3.4 Volume Control

1. Press **UP/DOWN** button of navigation while in a call, to adjust earpiece volume.
2. Press **Soft Key 2** [MUTE] to Prevent sound from your end during the call. To cancel Mute, Press again **Soft Key 2** [UNMUTE].





3. Press **Soft Key 1** [MENU] + **3**([MIC LEVEL]) during a call and select **Low** or **High** by pressing **Soft Key 2** [NEXT] or Press **UP/DOWN** button, to adjust MIC volume.



3.5 Receiving a Call

When the bell rings in idle state, you can receive a call as follows

1. Pick up the handset or press the **Speaker Phone** button.
2. Start a conversation.
3. To disconnect the call, replace the handset or press the **Speaker Phone** button.

3.6 In Call Memo

Allow you to store number during the call.

To store number:

1. Press **Soft Key 1** [MENU] + **1**([MEMO]).
2. Enter upto 32 numbers using the keypad.
3. Press **Soft Key 1** [ADD] to save.

To retrieve an In Call Memo:

1. Press **Dial/Flesh** button to see saved number.

Note: You can store the number by pressing **Soft Key 1** [ADD].

3.7 Lock Mode

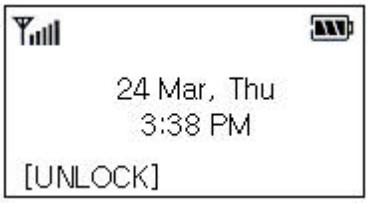
Protects your phone from unauthorized use. Once the phone is locked, it is in restricted mode, until the in lock code is entered. This will allow you to receive phone calls and still make emergency calls. The lock code/password on your phone is "0000" by default. Also you can modify your lock code as explained [See 4.1.4.6 page no. 31]. You can lock your phone using the **'#'**(:Lock) key, also you can lock your phone manually as explained [See 4.1.4.1 page no. 28].

Under Lock Mode

1. Press '#' button for some time.
   The phone is now locked.
2. To unlock, press **Soft Key 1** [UNLOCK].

   Message **END/PWR**

   Soft Key 1 Soft Key 2



3. Enter 4 digits lock code/password. (Default "0000").

4. Menu Tree

Main MENU	Sub-MENU	Setting Value
1. MENU		
1. SOUND	1. RING TYPE	Bengali / Disco / Filmi / Goan / Gujrati Folk / Happybday / Malyalam / Marathi pohada / OmJaiJagdish / Pahadi / Polka / Punjabi / SareJahanSe / Shiridivaasa / VandeMataram
	2. RING VOLUME	4 steps
	3. KEY VOLUME	5 steps (including silent step)
	4. EAR VOLUME	4 steps
2. SETTINGS	1. ALARM	SET TIME / SET RINGER
	2. CALL	CALL FORWARD / CALL WAIT
	3. CONNECT ALERT	Enable / Disable
	4. MY NUMBER	OK / EDIT
	5. VIEW VERSION	OK / MORE
3. DIAL FEATURES	1. HOT LINE	Enable / Disable
	2. HOT LINE TIME	2-9 sec.
	3. AUTO TIME-OUT	2-9 sec.
	4. SPEED DIALING	Enable / Disable
	5. DTMF LENGTH	Short / Long
4. SECURITY	1. SET LOCK MODE	Enable / Disable
	2. CLEAR CALLS	No / Yes
	3. CLEAR MEMORY	No / Yes
	4. EMERGENCY CALL	3 Options
	5. RESTRICT CALL	SET RESTRICT / WHITE LIST / BLACK LIST
	6. NEW CODE	-
2. MESSAGE		
1. WRITE	1. NEW MESSAGE	OK / FIND
	2. EDIT OUTBOX	EDIT / ERASE
	3. EDIT INBOX	EDIT
	4. CLEAR OUTBOX	No / Yes

Main MENU	Sub-MENU	Setting Value
2. INBOX	1. TEXT MSG	VIEW / ERASE
	2. VOICE MSG	REPLY / ERASE
	3. CLEAR ALL	No / Yes
3. MSG ALERT	-	Off / Once / Every 2 Min
4. MSG RINGER	-	Sms alarm 1 ~ 5
5. SETTINGS	1. DEFER DDELIVERY	Immediate / After 30 Min. / After 1 Hour / After 2 Hours / After 12 Hours / After 1 Day / After 2 Days
	2. VALID PERIOD	Default / 30 Minutes / 1 Hour / 2 Hours / 12 Hours / 1 Day / 2 Days
	3. AUTO DEL.INBOX	Disable / Enable
3. FIND		
1. CALL HISTORY	1. ALL CALL	VIEW / ERASE
	2. MISSED	VIEW / ERASE
	3. RECEIVED	VIEW / ERASE
	4. DIALLED	VIEW / ERASE
	5. MEMO	VIEW / ERASE
	6. ERASE HISTORY	ERASE ALL CALL / ERASE MISSED / ERASE RECEIVED / ERASE DIALLED / ERASE MEMO
2. PHONE BOOK	1. BY NAME	FIND / ABC
	2. BY ADDRESS	FIND
	3. BY NUMBER	FIND

4.1 MENU

You may select from four MAIN MEMU (SOUND, SETTINGS, DIAL FEATURES, SECURITY) for this item.

If you press **Soft Key 1** MENU is activated.

	Message	**END/PWR**	
Soft Key 1			**Soft Key 2**

To scroll in MENU, press ? or ? button.

To return to the initial screen, press **END/PWR** button and to return to the previous screen, press **Clear** button.

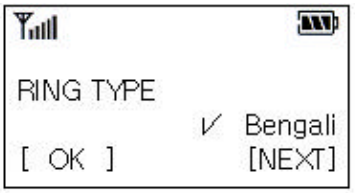
4.1.1 SOUND

Allows you to set various volumes settings and Ring Type.

Press **Soft Key 1** MENU + **1**(SOUND) in on-hook state.

4.1.1.1 RING TYPE

You can select the various ring types.

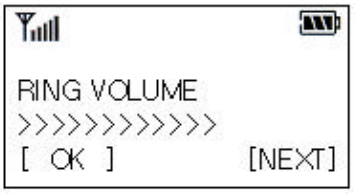


1. Press **Soft Key 1** MENU + **1**(SOUND) + **1**(RING TYPE) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select desired ring type.
3. Press **Soft Key 1** [OK] to save setting.

Note: Choose from 15 different ring types (Bengali, Disco, Filmi, Goan, Gujrati Folk, Happybday, Malyalam, Marathi pohada, OmJaiJagdish, Pahadi, Polka, Punjabi, Sare JahanSe, Shiridivaasa, and VandeMataram).

4.1.1.2 RING VOLUME

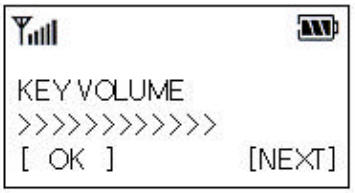
You can adjust the ringing volume level of incoming call alert.



1. Press **Soft Key 1** MENU + **1**(SOUND) + **2**(RING VOLUME) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to adjust Ring Volume.
3. Press **Soft Key 1** [OK] to save setting.

4.1.1.3 KEY VOLUME

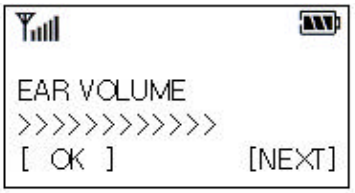
The tone when you press a key can be adjusted.



1. Press **Soft Key 1** MENU + **1**(SOUND) + **3**(KEY VOLUME) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to adjust key volume.
3. Press **Soft Key 1** [OK] to save setting.

4.1.1.4 EAR VOLUME

The voice of the other party can be adjusted.



1. Press **Soft Key 1** MENU + **1**(SOUND) + **4**(EAR VOLUME) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to adjust earpiece volume.
3. Press **Soft Key 1** [OK] to save setting.

Note: Press **UP/DOWN** button to adjust the volume during a conversation.

4.1.2 SETTINGS

You can use additional features like Alarm, CALL, Connect Alert, My Number etc.

Press **Soft Key 1** MENU + **2**(SETTINGS) in on-hook state.

4.1.2.1 ALARM

[SET TIME]

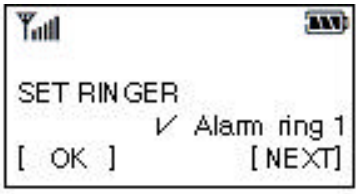
This function allows you to set alarm time.

1. Press **Soft Key 1** MENU + **2**(SETTINGS) + **1**(ALARM) + **1**(SET TIME) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select from **Off, Once** or **Always** and press **Soft Key 1** [OK].
3. Enter alarm time and press **Soft Key 1** [AM/PM] and select AM or PM.
4. If you want to modify the time, press **Clear** button and reset.
5. Press **Soft Key 1** [OK] to save and exit.

[SET RINGER]

This function allows you to select ringer for alarm alert.

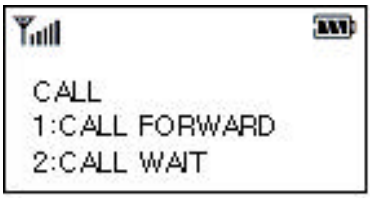
1. Press **Soft Key 1** MENU + **2**(SETTINGS) + **1**(ALARM) + **2**(SET RINGER) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select from Alarm ring 1, Alarm ring 2, Alarm ring 3, Alarm ring 4 or Alarm ring 5.
3. Press **Soft Key 1** [OK] to save and exit.



4.1.2.2 CALL

[CALL FORWARD]

This function allows you to forward your incoming calls to another number.



1. Press **Soft Key 1** MENU + **2**(SETTINGS) + **2**(CALL) + **1**(CALL FORWARD) in on-hook state.
2. Select from **IMMEDIATE, WHEN BUSY, NO REPLY** or **DISABLE ALL** options by pressing number button.
3. Select **ENABLE** or **DISABLE**.

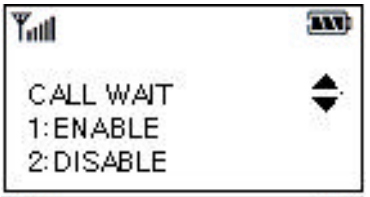
✍ If you select **ENABLE**, Enter the phone number that you want. Press **Soft Key 1** [OK] to save and exit.

4. To modify the prefix number, select **VIEW EN-CODE**, **VIEW DIS-CODE** or **VIEW CODE** and press **Soft Key 2** [EDIT].
5. Enter the prefix number, and press **Soft Key 1** [OK] to save and exit.

✍ You would need to call “121” to get this service activated.

[CALL WAIT]

While a call is in progress, you may hear two beeps indicating another incoming call. When call wait is enabled, you can put the active call on hold while you answer the other incoming call.

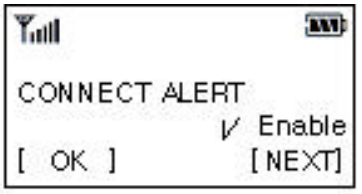


1. Press **Soft Key 1** MENU + **2**(SETTINGS) + **2**(CALL) + **2**(CALL WAIT) in on-hook state.
2. Select **ENABLE** or **DISABLE**.
3. To modify the prefix number, select **VIEW EN-CODE** or **VIEW DIS-CODE** and press **Soft Key 2** [EDIT]
4. Enter the prefix number, and press **Soft Key 1** [OK] to save and exit.

✍ You would need to call “121” to get this service activated.

4.1.2.3 CONNECT ALERT

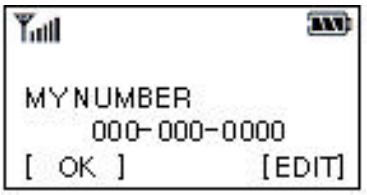
This function allows you to select the call connect tone.



1. Press **Soft Key 1** MENU + **2**(SETTINGS) + **3**(CONNECT ALERT) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **Enable** or **Disable**.
3. Press **Soft Key 1** [OK] to save and exit.

4.1.2.4 MY NUMBER

You can confirm your phone number.

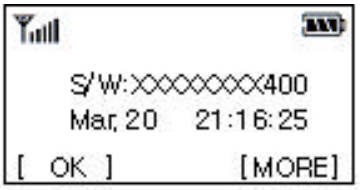


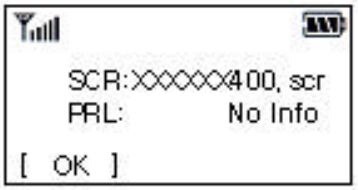
1. Press **Soft Key 1** MENU + **2**(SETTINGS) + **4**(MY NUNBER) in on-hook state.
2. Press **Soft Key 1** [OK] to exit.

Note: To modify your phone number, press **Soft Key 2** [EDIT]. Enter the phone number, and press **Soft Key 1** [OK] to save and exit.

4.1.2.5 VIEW VERSION

You can confirm your phone S/W version.



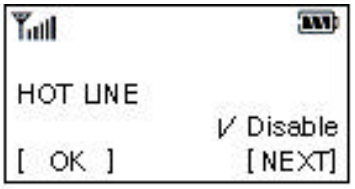


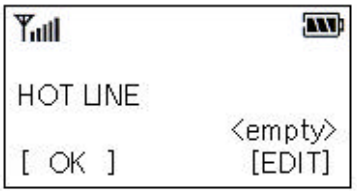
1. Press **Soft Key 1** MENU + **2**(SETTINGS) + **5**(VIEW VERSION) in on-hook state.
2. To confirm next page, press **Soft Key 2** [MORE], and press **Soft Key 1** [OK] to exit.

4.1.3 DIAL FEATURES

Press **Soft Key 1** MENU + **3**(DIAL FEATURES) in on-hook state.

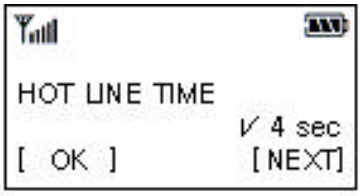
4.1.3.1 HOT LINE





1. Press **Soft Key 1** MENU + **3**(DIAL FEATURES) + **1**(HOT LINE) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **Enable** or **Disable** and Press **Soft Key 1** [OK]
3. Press **Soft Key 2** [EDIT] and enter the Hot Line phone number.
4. Press **Soft Key 1** [OK] to save and exit.

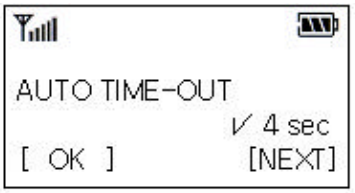
4.1.3.2 HOT LINE TIME



1. Press **Soft Key 1** MENU + **3**(DIAL FEATURES) + **2**(HOT LINE TIME) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select hot line connection time (2~9 sec.).
3. Press **Soft Key 1** [OK] to select.

4.1.3.3 AUTO TIME-OUT

Setting the length of time the phone waits before automatically dialing a number. You can select this duration to be between 2 and 9 seconds.

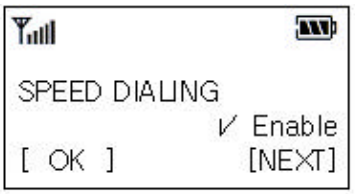


1. Press **Soft Key 1** MENU + **3**(DIAL FEATURES) + **3**(AUTO TIME-OUT) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select Auto Time-out between 2 and 9 sec.
3. Press **Soft Key 1** [OK] to select.

4.1.3.4 SPEED DIALING

This function allows you to make a call faster by just pressing a corresponding number. Upto 300 memory locations can be assigned for speed dial. To speed dialing press the memory number **(1 through 300)** corresponding to the appropriate memory location and hold for a few seconds.

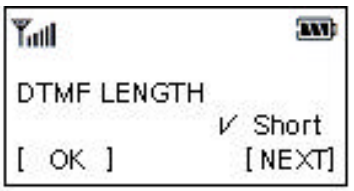
✍ This function can be used when the speed dialing is set to enable.



1. Press **Soft Key 1** MENU + **3**(DIAL FEATURES) + **4**(SPEED DIALING) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **Enable** or **Disable**.
3. Press **Soft Key 1** [OK] to save and exit.

4.1.3.5 DTMF LENGTH

This function allows you to the setting of Key beep playback length. Possible settings are **Short** and **Long**.



1. Press **Soft Key 1** MENU + **3**(DIAL FEATURES) + **5**(DTMF LENGTH) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **Short** or **Long**.
3. Press **Soft Key 1** [OK] to select.

4.1.4 SECURITY

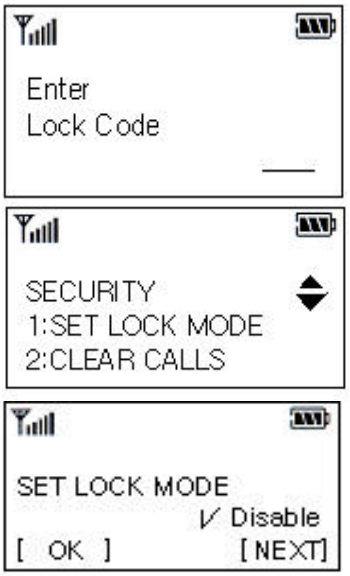
4.1.4.1 SET LOCK MODE

This function prevents the usage of your phone without your permission. You can protect your phone by 4 digits lock code/password. Possible settings are **Enable** or **Disable**.

Disable indicates that the phone is not locked.

Enable sets the phone locks immediately.

1. Press **Soft Key 1** MENU + **4**(SECURITY).
2. Enter 4 digits lock code/password.
3. Press **1**(SET LOCK MODE).
4. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **Enable** or **Disable**.
5. Press **Soft Key 1** [OK] to save and exit.

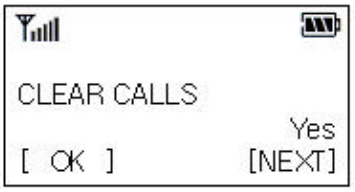


✍ Default lock code/password is "0000".

4.1.4.2 CLEAR CALLS

This function allows you to erase complete call history of previous outgoing and incoming calls.

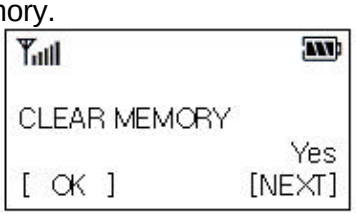
1. Press **Soft Key 1** MENU + **4**(SECURITY).
2. Enter 4 digits lock code/password.
3. Press **2**(CLEAR CALLS).
4. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to Select **Yes** or **No**.
5. Press **Soft Key 1** [OK] to exit.



Note: Deleted call history can not be retrieve.

4.1.4.3 CLEAR MEMORY

This function allows you to erase complete phone book memory.

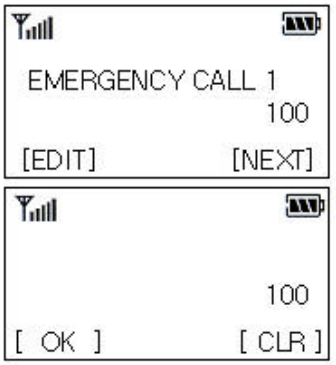


1. Press **Soft Key 1** MENU + **4**(SECURITY).
2. Enter 4 digits lock code/password.
3. Press **3**(CLEAR MEMORY).
4. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **Yes** or **No**.
5. Press **Soft Key 1** [OK] to exit.

Note: Deleted phone book memory can not be retrieve.

4.1.4.4 EMERGENCY CALL

This function allows you to enter 3 emergency numbers. You can call these default emergency numbers 100, 101, 102 even when the phone is locked or restricted.



1. Press **Soft Key 1** MENU + **4**(SECURITY).
2. Enter 4 digits lock code/password.
3. Press **4**(EMERGENCY CALL).
4. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to edit numbers.
5. Press [OK] to save the number and press **Clear** or **END/PWR** to exit.

✍ This service should be provided by your service provider.

4.1.4.5 RESTRICT CALL

This function allows you to restrict your outgoing calls including numbers / numbers beginning with specified digit in the BLACK LIST.

For example: if “9” is stored in the BLACK LIST, all number beginning with “9” cannot be called. However if “92” is stored in WHITE LIST, you can the call numbers beginning with “92” successfully.

[SET RESTRICT]

You can choose following options:

✍ **No restriction**

This function allows you to disable all restrictions.

✍ **Restriction**

This function allows you to enable restrictions.

✍ **Emergency only**

This function allows you to set phone, enable for only emergency numbers.

1. Press **Soft Key 1** MENU + **4**(SECURITY).
2. Enter 4 digits lock code/password.
3. Press **5**(RESTRICT CALL) + **1**(SET RESTRICT).
4. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select from **No restriction, Restriction** or **Emergency Only**.
5. Press **Soft Key 1** [OK] to exit.

[WHITE LIST]

The numbers placed the WHITE LIST would be given a priority. You can save upto 10 numbers in WHITE LIST.

This function can be used when the SET RESTRICT is set to **Restriction**.

1. Press **Soft Key 1** MENU + **4**(SECURITY).
2. Enter 4 digits lock code/password.
3. Press **5**(RESTRICT CALL) + **2**(WHITE LIST).
4. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select from option 1 to 10.
5. Press **Soft Key 1** [EDIT] and enter the permit phone number.
6. Press **Soft Key 1** [OK] to save and press **Clear** button to exit.

[BLACK LIST]

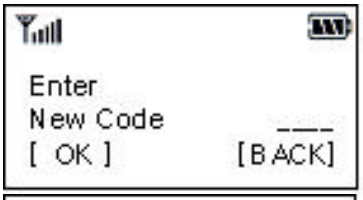
You cannot call any phone numbers saved in BLACK LIST. You can save upto 10 numbers in BLACK LIST.

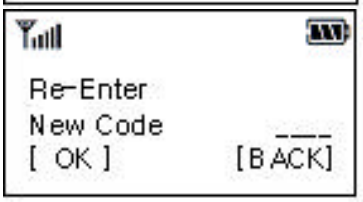
This function can be used when the SET RESTRICT is set to **Restriction**.

1. Press **Soft Key 1** MENU + **4**(SECURITY).
2. Enter 4 digits lock code/password.
3. Press **5**(RESTRICT CALL) + **3**(BLACK LIST).
4. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select from option 1 to 10.
5. Press **Soft Key 1** [EDIT] and enter the deny phone number.
6. Press **Soft Key 1** [OK] to save and press **Clear** button to exit.

4.1.4.6 NEW CODE

This function allows you to modify your lock code/password.





1. Press **Soft Key 1** MENU + **4**(SECURITY).
2. Enter 4 digits lock code/password.
3. Press **6**(NEW CODE).
4. Enter the new 4 digits lock code that you want.
5. Press **Soft Key 1** [OK] to go next edit state.
6. Enter the new lock code again.
7. Press **Soft Key 1** [OK] to save and press **Clear** or **Soft Key 2** [BACK] button to exit.

4.2 MESSAGE

This function allows you to facility of Short Messaging. Text messaging, page and voice mailbox become available as soon as the phone is switched on. The phone can store upto 50 messages each in INBOX and OUTBOX.

If you press **Message** Key, SMS MENU is activated.

	Message	**END/PWR**	
Soft Key 1			**Soft Key 2**

To scroll in SMS MENU, press ? or ? button.

At any point of time, to return to the initial screen, press **END/ PWR** button and to return to the previous screen, press **Clear** button.

4.2.1 WRITE

This function allows you to compose and send SMS.

4.2.1.1 NEW MESSAGE

1. Press Message + **1**(WRITE) + **1**(NEW MESSAGE) in on-hook state.
2. Enter phone number manually or press [FIND] to search from phone book or call history.
3. Write messages. Press **Soft Key 2** [ABC] to change upper, lower case or a specific character.
4. For **DELIVERY ACK** option, press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **Yes** or **No.**

✍ This function allows you to know whether the messages have been successfully transmitted to the recipient.

5. For **STORE MESSAGE** option, press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **Yes** or **No.** The message will be store in **EDIT OUTBOX**.
6. For **SET PRIORITY** option, press **UP/DOWN** button or **Soft Key 2** [NEXT] to select priority level **Normal, Urgent** or **Emergency**.
7. Press **Soft Key 2** [OK] to send message.

4.2.1.2 EDIT OUTBOX

All your successfully sent messages are saved here.

1. Press Message + **1**(WRITE) + **2**(EDIT OUTBOX) in on-hook state.
2. To erase message, select **Soft Key 2** [ERASE].
3. To view or edit desired message, select **Soft Key 1** [EDIT].

4.2.1.3 EDIT INBOX

All your received messages are saved here.

1. Press Message + **1**(WRITE) + **3**(EDIT INBOX) in on-hook state.
2. To view or edit desired message, select **Soft Key 1** [EDIT].

4.2.1.4 CLEAR OUTBOX

To erase all sending messages, select this function.

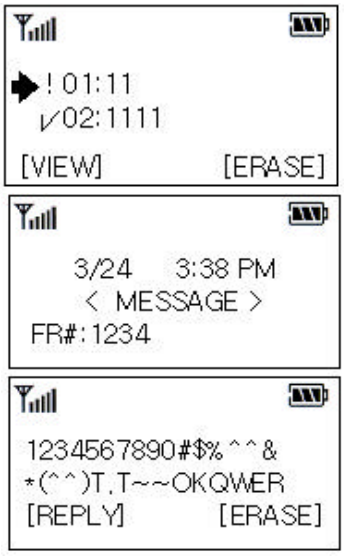
1. Press Message + **1**(WRITE) + **4**(CLEAR OUTBOX) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **Yes** or **No**.
3. Press **Soft Key 1** [OK] to exit.

4.2.2 INBOX

4.2.2.1 TEXT MSG

Received messages are stored here.

1. Press Message + **2**(INBOX) + **1**(TEXT MSG) in on-hook state.
2. To view desired message, select **Soft Key 1** [VIEW].
3. To reply the message, select **Soft Key 1** [REPLY].
4. To erase message, select **Soft Key 2** [ERASE].



✍ In TEXT MSG, the meaning of (5/37) beside TEXT MSG is that 5 out of 37 messages are unread.

4.2.2.2 VOICE MSG

Voice MSG notifications indicate the number of new voice messages in your mailbox. Only the most recent voice mail notification will be stored in your phone, previous message will be overwritten.

1. Press Message + **2**(INBOX) + **2**(VOICE MSG) in on-hook state.
2. Pick up the handset or press **Speaker Phone** button to confirm your voice message.

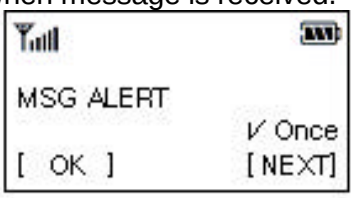
4.2.2.3 CLEAR ALL

This function allows you to erase all received messages.

1. Press Message + **2**(INBOX) + **3**(CLEAR ALL) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **No** or **Yes**.
3. Press **Soft Key 1** [OK] to exit.

4.2.3 MSG ALERT

This function allows you to set the frequency of notification when message is received.



1. Press Message + **3**(MSG ALERT) in on-hook state.
2. Select **Off, Once** or **Every 2 Min** by pressing **UP/DOWN** button or **Soft Key 2** [NEXT].
3. Press [OK] to save and exit.

4.2.4 MSG RINGER

This function allows you to set the ring-type for notification when message is received. You can select from 5 choices.

1. Press Message + **4**(MSG RINGER) in on-hook state.
2. Select a desired ring type by pressing **UP/DOWN** button or **Soft Key 2** [NEXT].
3. Press [OK] to save and exit.

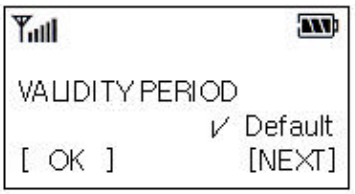
4.2.5 SETTINGS

4.2.5.1 DEFER DELIVERY

1. Press Message + **5**(SETTINGS) + **1**(DEFER DELIVERY) in on-hook state.
2. Select one of the following by pressing **UP/DOWN** button or **Soft Key 2** [NEXT] **:**

   Immediate, After 30 Min., After 1 Hour, After 2 Hours, After 12 Hours, After 1 Day, After 2 Days
3. Press [OK] to save.

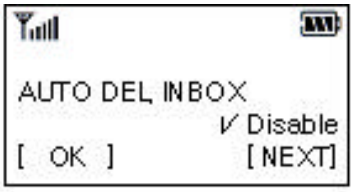
4.2.5.2 VALID PERIOD



1. Press Message + **5**(SETTINGS) + **2**(VALID PERIOD) in on-hook state.
2. Select desired time by pressing **UP/DOWN** button or **Soft Key 2** [NEXT] **:**

   Default, 30 Minutes, 1 Hour, 2 Hours, 12 Hours, 1 Day, 2 Days
3. Press [OK] to save.

4.2.5.3 AUTO DEL.INBOX



1. Press Message + **5**(SETTINGS) + **3**(AUTO DEL.INBOX) in on-hook state.
2. Press **UP/DOWN** button or **Soft Key 2** [NEXT] to select **Enable** or **Disable.**
3. Press [OK] to save.

4.3 FIND

This function allows you to find the phone numbers that you have stored in the phone book memory. You may find the numbers from call history also.

If you press Soft Key 2, FIND is activated.

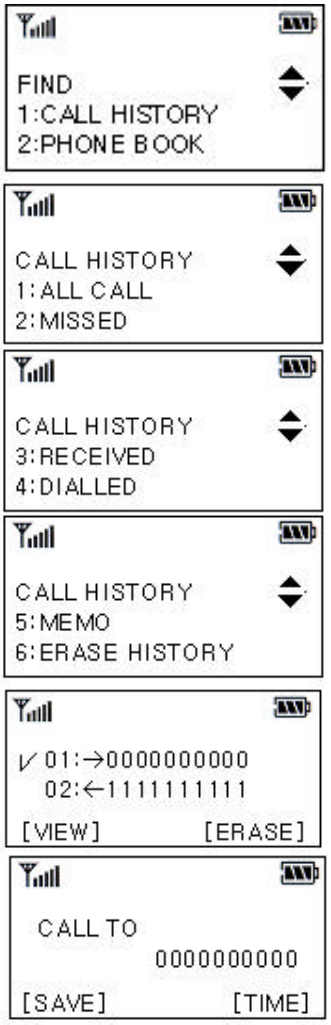
	Message	**END/PWR**	
Soft Key 1			**Soft Key 2**

To return to the initial screen, press **END/PWR** button and to return to the previous screen, press **Clear** button.

4.3.1 CALL HISTORY

This function allows you to see last 50 numbers of all types of outgoing and incoming calls.

4.3.1.1 ALL CALL



[In on-hook state]

1. Press FIND + **1**(CALL HISTORY) + **1**(ALL CALL) or **Dial/Flash** button.
2. Press **UP/DOWN** button to select a number or name in the call history list.
3. To view desired item, select **Soft Key 1** [VIEW].
4. To delete desired number, select **Soft Key 2** [ERASE].
5. Press [TIME] to see more information and press [SAVE] to save the number in the phone book.

[While in a Call]

1. Press MENU + **2**(FIND) + **1**(CALL HISTORY) + **1**(ALL CALL).
2. Press **UP/DOWN** button to select a number or name in the call history list.
3. To view desired item, select **Soft Key 1** [VIEW].
4. To delete desired number, select **Soft Key 2** [ERASE].
5. Press [TIME] to see more information and press [SAVE] to save a number in the phone book.

4.3.1.2 MISSED

1. Press FIND + **1**(CALL HISTORY) + **2**(MISSED) in on-hook state.
2. Press **UP/DOWN** button to select a number or name in the missed call list.
3. To view desired item, select **Soft Key 1** [VIEW].
4. To delete missed call, select **Soft Key 2** [ERASE].
5. Press [TIME] to see more information and press [SAVE] to save the number in the phone book.

4.3.1.3 RECEIVED

1. Press FIND + **1**(CALL HISTORY) + **3**(RECEIVED) in on-hook state.
2. Press **UP/DOWN** button to select a number or name in the received call list.
3. To view desired item, select **Soft Key 1** [VIEW].
4. To delete received call, select **Soft Key 2** [ERASE].
5. Press [TIME] to see more information and press [SAVE] to save the number in the phone book.

4.3.1.4 DIALLED

1. Press FIND + **1**(CALL HISTORY) + **4**(DIALLED) in on-hook state.
2. Press **UP/DOWN** button to select a number or name in the dialed call list.
3. To view desired item, select **Soft Key 1** [VIEW].
4. To delete dialed call, select **Soft Key 2** [ERASE].
5. Press [TIME] to see more information and press [SAVE] to save the number in the phone book.

4.3.1.5 MEMO

1. Press FIND + **1**(CALL HISTORY) + **5**(MEMO) in on-hook state.
2. Press **UP/DOWN** button to select desired item in the memo list.
3. To view desired item, select **Soft Key 1** [VIEW].
4. To delete memo, select **Soft Key 2** [ERASE].
5. Press [TIME] to see more information and press [SAVE] to save the number in the phone book.

4.3.1.6 ERASE HISTORY

1. Press FIND + **1**(CALL HISTORY) + **6**(ERASE HISTORY) in on-hook state.
2. To delete all calls that you want, select from **1**(ERASE ALL CALL), **2**(ERASE MISSED), **3**(ERASE RECEIVED), **4**(ERASE DIALLED) or **5**(ERASE MEMO) and press **Soft Key 2** [NEXT] to select **No** or **Yes**.
3. Press **Soft Key 1** [OK] to delete.

4.3.2 PHONE BOOK

This function allows you to search the phone number in three way **BY NAME, BY ADDRESS** and **BY NUMBER**, which you have stored in the phone book memory. Upto 300 entries can be listed here.

TO STORE PHONE NUMBER IN PHONE BOOK MEMORY

1. Enter the area code and phone number (Max. 32 digits) in on-hook state.
2. Press **Soft Key 1** [SAVE].
3. Enter the name in text mode and press [OK] to save. Press **Soft Key 2** [ABC] to change upper, lower case or a specific character.
4. Enter the desired memory location.
5. The phone will display a message asking you whether to keep your number as secret or not. Select **No** or **Yes** using **UP/DOWN** button or **Soft Key 2** [NEXT] and press [OK].

✍ You will see a confirmation message and the status of memory used.

[Fast Searching]

Press [FIND] and press [FIND] again.

4.3.2.1 BY NAME

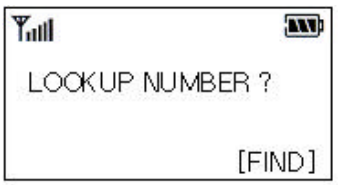
1. Press FIND + **2**(PHONE BOOK) + **1**(BY NAME), to retrieve a phone number by name.
2. Enter the name you want and press [FIND]. To find all phone numbers you have stored, Press [FIND].

4.3.2.2 BY ADDRESS

1. Press FIND + **2**(PHONE BOOK) + **2**(BY ADDRESS), to retrieve a phone number by address.
2. Enter a memory address to retrieve phone number and press [FIND]. To find all phone numbers you have stored, Press [FIND].

4.3.2.3 BY NUMBER

1. Press FIND + **2**(PHONE BOOK) + **3**(BY NUMBER), to retrieve a phone number by number.
2. Enter the phone number that you want to fine and press [FIND]. To find all phone numbers you have stored, Press [FIND].



5. Speaker Phone

This function is a convenient feature, which enables you to make a call using the **Speaker Phone** (🔊) button in on-hook state.

6. Troubleshooting

Please check the following items before contacting service center.

Item	Remedy
Phone doesn't operate at all.	✍Check that the phone is installed correctly. ✍Check that the battery is fully charged. ✍Check that the power is on.
Because of noise and cross talking, call status is bad.	Keep away from electrical application such as TV, computer, radio and so on.
When I press button to call, can't hear the dial tone.	Check that phone cord or power is connected correctly.
Phone does not switch on.	Check that the battery is fully charged and correctly connected to the phone.
Calls cannot be received.	If incoming calls are barred, unlock the incoming call barring/do not disturb.
Emergency calls cannot be made.	Check that the antenna symbol is displayed-Move to the coverage area and operate your phone when the antenna symbol is displayed.
Battery fails to charge.	Ensure the battery is fitted correctly to the phone prior to commencing charging.
Bell sound isn't heard.	If bell sound is low, please adjust the volume level.

7. General Information

7.1 Main Unit

Item	LSP-400
Tx Frequency	Digital: 824 ~ 849 MHz
Rx Frequency	Digital: 869 ~ 894 MHz
Channel Bandwidth	1.25 MHz
Tx Power	Digital: LOWER: 0.2W ~UPPER:1W
Rx Sensitivity	-104 ~ -25dBm
Size (mm)	195 × 162 × 72 (L X W X H)
Weight (gms)	584(included Li-ion battery)
Operating Temperature	-10 to 50℃

7.2 AC/DC Adapter

Item	SMPS Type Description
Rated Input Voltage	AC 100 ~ 240V
Operating Input voltage	AC 80 ~ 420V
Rated Input Frequency	50 / 60Hz
Operating Input Frequency	47 ~ 63Hz
Rated Output Voltage, Current	5V(DC), 1A

7.3 Battery

Item	Description
Capacity	3.7V Li-ion (Nominal) / 1400mAh
Talk time / Standby time	4 Hours / 120Hours
Charging time duration	3.5 Hours

Appendix FCC RF Exposure Information

WARNING!

The antenna used for this transmitter must not exceed 3.0dBi and must be installed to provide a minimum separation distance of 20 cm from all persons.

CAUTION

Use only the supplied and approved antenna. Use of unauthorized antennas or modifications could impair call quality, damage the phone, void your warranty and/or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with skin, a minor burn may result. Contact your local dealer for a replacement of antenna.

FCC Part 15 Class B Compliance

This device and its accessories comply with part 15 of FCC rules.

Operation is subject to the following two conditions:

(1) This device and its accessories may not cause harmful interference, and (2) this device and its accessories must accept any interference received, including interference that may cause undesired operation.

Licensed by QUALCOMM Incorporated under one or more of the following Patents:

U.S, Patent No. 4,901,307 U.S, Patent No. 5,056,109 U.S, Patent No. 5,099,204

U.S, Patent No. 5,101,501 U.S, Patent No. 5,103,459 U.S, Patent No. 5,107,225