INSTRUCTION MANUAL

A preliminary draft copy of the Users Manual follows:

EXHIBIT 8

Prohibition of illegal modification of ESN

Each digital wireless phone manufactured and supplied by Motorola has its own ESN(Electronics Serial Number). Removal or change of this ESN, or an attempt to reproduce and enter another ESN shall be deemed an illegal act. Any person who commits such an illegal act shall be sentenced to three or less years' penal servitude or fined 10 million or less won pursuant to the related civil laws(Article 4 of Radio Wave Act, Article 57 o Telecommunications Enterprise Act, and Article 347 of the Criminal Law Act).
In addition, such an illegal act may damage the software built in the phone, with the result that the phone cannot be used any longer.

Thus, customers are required to use care not to incur any damage due to such an illegal act. Especially, once such an illegal act is identified, both the free and paid services warranted by Motorola are rejected.

Precautions

Do not lend your own phone to other person inadvertently.
For repairs or other services, contact our designated service center.
If your phone has got lost or stolen, immediately report to the relevant telecommunications service provider.

This product should not be added with any separate equipment that may cause an alteration to its original performance as described on type registration.

Safety Information

Exposure to Radio Frequency Signal

IMPORTANT: Read this information before using your wireless handheld phone.

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 Commission (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with safety standards previously set by both U.S. and international standards bodies:

American National Standards Institute (ANSI) IEEE. C95. 1-1992
National Council on Radiation Protection and Measurement (NCRP). Report 86
International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996
Ministry of Health (Canada), Safety Code 6
Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards). For additional information concerning exposure to radio frequency signals, see the statement by the FDA at the end of this user guide.

To maintain compliance with FCC RF exposure guidelines, if you wear a handset on your body, use the Motorola-supplied or approved carrying case, holster, or other body-worn accessory. If you do not use a body-worn accessory, ensure the antenna is at least one inch (2.5 centimeters) from your body when transmitting. Use of non-Motorola accessories may violate FCC RF exposure guidelines.

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.

Phone Operation / Normal Operation

Hold the phone as you would any other telephone, with the antenna pointed up and over your shoulder.

Phone Operation / Tips on Efficient Operation

Observe the following guidelines to operate your phone most efficiently.

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

Batteries

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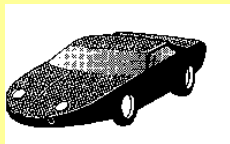
Driving

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Observe the following guidelines when using your phone while driving.
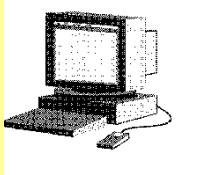
- Give full attention to driving--driving safely is your first responsibility.
- Use hands-free phone operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain 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 inches (6") be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON
- should not carry the phone in a breast pocket
- should use the ear opposite the pacemaker to minimize the potential for interference
- should turn the phone OFF immediately if you have any reason to suspect that interference is taking place

Hearing aids

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

Other Medical Devices

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

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

Vehicle

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

Posted Facilities

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

Aircraft

Switch OFF your phone before boarding an aircraft.
Airline regulations prohibit using your phone while in the air. Check and comply with the policy of your airline regarding the use of your phone while the aircraft is on the ground.
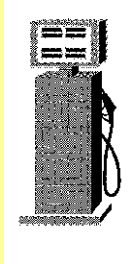
Blasting Areas

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, do not remove your battery when you are in any area with a potentially explosive atmosphere, and obey all signs and instructions. Sparks from your battery in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include: fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; areas where fuel odors are present (for example, if a gas/propane leak occurs in a car or home); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you normally would be advised to turn off your vehicle engine.
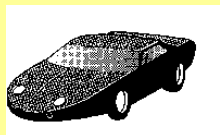
For Vehicles Equipped with an Air Bag

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

Content

Confirming Components

Basic Operation

Using Menu Features

Features Usable During A Call

Message Service Features

Supplemental Features

Appendix

Before Using

Confirming Components

Handset   Battery Pack,   Battery Pack   Desktop Charging Cradle,
                  (small capacity)   (standard type),
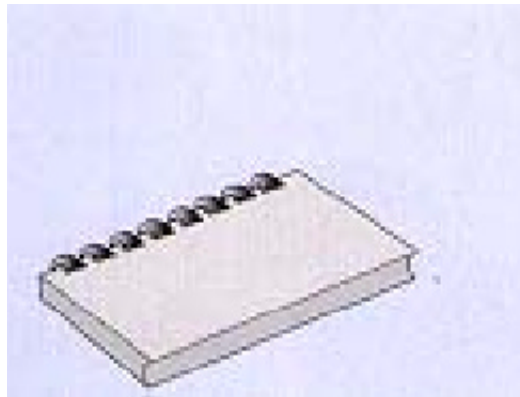
User's Manual

These separate items may vary according to the specifications provided by service providers.

Name and Function of Each Part

Antenna ··

Receiver·································

LCD Screen···
Function State and
Messages Indicated

Volume Button ···················
Volume Control/
Menu Searching

Dial Button ·················
Phone Number &
Characters Entered and
Appropriate Menu selected

Transmitter ··················

Ear Microphone Terminal

Speaker Phone···

Jog Switch ···············
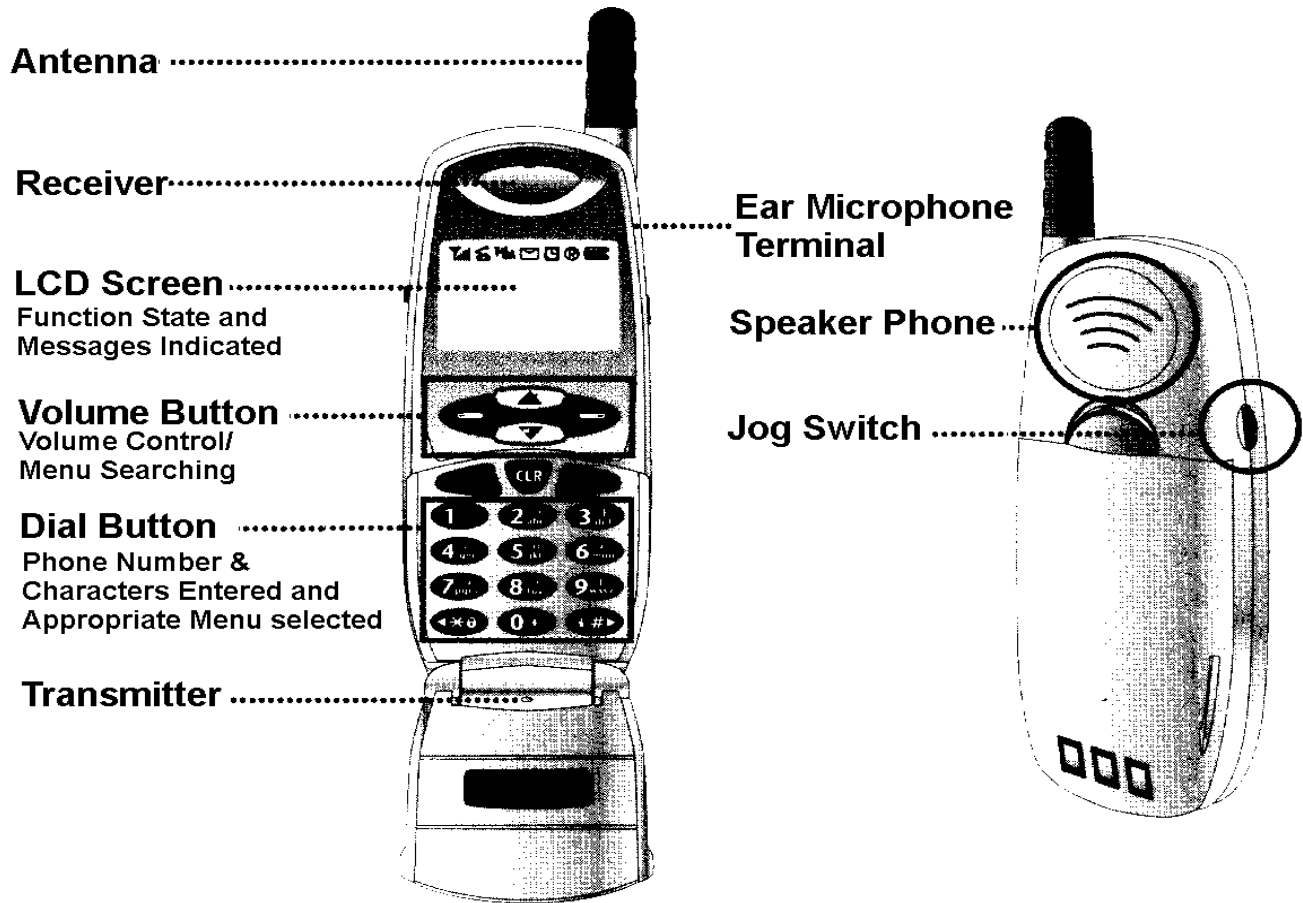
To place or receive a call

To correct or delete a character or number

When pressed: Deleting one by one
When pressed and held: Deleting the whole
Used to set Auto Voice Dial feature
(This can be used only when Auto Voice Dial feature
is cleared.)
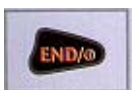
**To turn the power ON/OFF, end a call, and end
a selected feature to return to the initial menu**

*# To search menu in sequence
set Lock feature
set/clear Etiquette mode

Left/Right - To select/cancel a menu
Jp/Down - To search a list
　　Up: To connect i-touch or n-TOP
　　Down: To turn Speaker Phone feature ON/OFF
　　(Pressing and holding the button when searching a list
　　enables automatic scroll..)

Dial buttons - To enter numbers and characters

　Emergency Dial-up
　Quick dial feature for Recall by Stored on phone book
　Quick dial feature for Personal Information
　 Management item
　Quick dialing for an international call
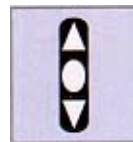
Jog Switch

To scroll through the menus
To control volume
To turn voice recording feature ON/OFF

Explanations of Screen Status and Symbols
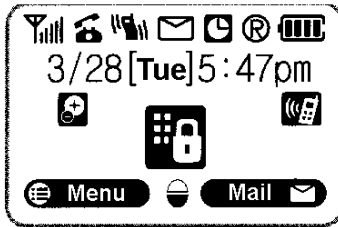
 To indicate that user time has been set up.

 To indicate that LOCK feature has been set up.

 To indicate that Speaker Phone mode has been set up.

 To indicate the signal strength level in the current service area

 To indicate call status. This symbol is displayed during a call.

 To indicate tone status when a call is received. This is displayed when the received tone has been set to vibration mode.

 To prompt you whether or not to receive a message. This symbol is displayed when a voice or text message is received.

 To indicate that alarm has been set to ON. This symbol disappears when you clear alarm setting.

 To indicate roaming service

 To indicate the remaining battery capacity
: charging state   Lc   rging level,
         quired to charge immediately

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Battery Installation and Removal

Installing Battery Pack

Fit the battery pack correctly into the groove provided on the lower side of the handset.

Slide it all the way in the arrow direction until a 'click' is heard.

If the battery pack is not installed correctly, the power may not be turned on or the pack may fall out of the handset. Be sure to check to see if it has been firmly installed.
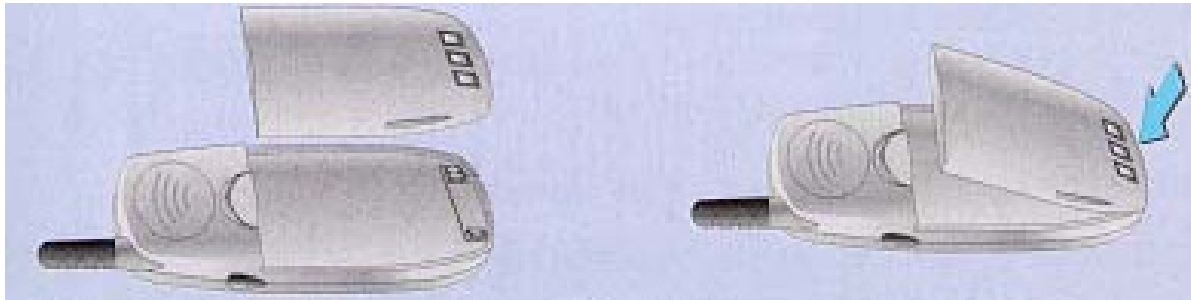
Removing Battery Pack

Turn off the power first. Press the removal button downward and push it in the arrow direction.
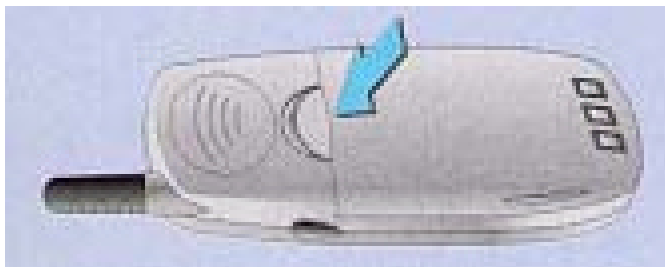
Battery Pack Care Information

ALWAYS use the authorized, dedicated charger and battery pack.
- Using an unauthorized charger could cause damage to the battery pack and explosion may result.

NEVER short-circuit the contact terminals of the battery pack. Explosion may result.

ALWAYS charge or store the battery pack in room temperature.
- Charge would not be achieved sufficiently and the indicator lamp changes into orange if you charge the battery pack in a too hot place(in a car in the summer or near open flames) or a too cold place. If stored over an extended period of time, its capacity level becomes lower, shortening its operating time.

NEVER disassemble the charger and battery pack or place them near open flames.

Store the charger and battery pack in the area out of children's reach.

NEVER give a strong impact to your phone or let it drop. Malfunctions or short life may result.

Any foreign matters in contact with the metallic part of contact terminals of the charger or battery pack may interfere with charging process. ALWAYS keep them clean.

The chargeable battery pack is a consumable item. Repeated switching between charging and discharging process reduces its service life gradually. If the battery operating time is reduced to a half level, compared to that when purchased, replace it with a new one. The warrant period for it is six (6) months from purchase.

Charging Battery Pack

The battery pack is not fully charged when purchased. Fully charge it before using.

Connect the power plug of the charger to a wall socket outlet.
The charger can be used with either 110V or 220V.

To charge your phone with the battery pack installed,
if charging only the battery pack using the front charging port,
fit the phone into the rear charging port exclusively for the battery pack.
- Even though you are using the charging port dedicated to the battery pack, the front charging port starts charging process first, and the charging port dedicated to the phone is switched to standby state.
- With the phone turned ON, if you charge it, charging efficiency becomes lower than when you turn OFF the phone to charge it.

Upon the completion of charging process, the lamp turns green.
into the front hollow of the desktop charging cradle, insert the battery pack into the rear side
- If you leave the phone in the charger after the lamp turns green, nothing gives impact to the phone.

Caution) If you charge the phone with a small-capacity battery installed using the front charging port, fit the protruding part inside the charger into the groove on the side of the battery pack.

Charging the phone with the battery pack installed

To charge the phone, insert it over the front charging port exclusively for the phone.

Charging the battery pack

Fit the phone over the rear charging port exclusively for the battery pack.
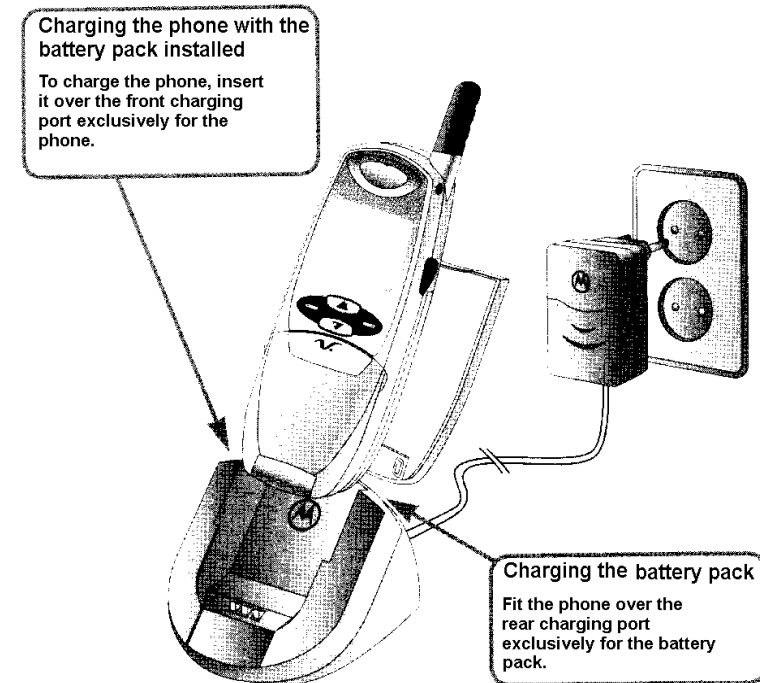
Battery Pack Charging Process State			
Charging Method	**On standby for charging**	**Charging in progress**	**At completion of charging**
Using front port(exclusively for phone)	-	Red	Green
Using rear port(exclusively for battery pack)	Orange	Red	Green

If the indicator lamp flickers in red

- The charging terminals are not contacted properly or the battery pack is defective. Check to see if the battery pack is clean, and then make another attempt.
- If it does not operate normally in spite of repeated attempts, contact the service center.

If the indicator lamp is in orange

- If you use the charger in a too hot or cold place, the indicator lamp lights up in orange.
- If you relocate it in room temperature, the indicator lamp turns red and charging operation is started.

Length of Time for Battery Pack Charging Operation		
Description	**Small-capacity**	**Standard type**
Length of Time	Approximately 2 hours	Approximately 3 hours

- The charging time may vary according to the battery pack condition.
- If AC power voltage applied to the power supply adapter is low, the charging time may lengthen.
- If ambient temperature is too high or low, charge would not be achieved sufficiently. ALWAYS perform charging operation in room temperature.

Battery Pack Operating Time

Description	Small-capacity	Standard type
Continuous call	Approximately 60 100 minutes	Approximately 120 180 minutes
Continuous standby	Approximately 80 140 hours	Approximately 180 240 hours

- Continuous standby time is based on slot mode 2, varying according to the types of services provided by service providers.
- Electric currents are used more in call state than in standby state, so the longer call time is, the shorter the standby time becomes.
- Receiving a call requires as much currents as when placing a call.
- Standby time in 'NO SERVICE' area becomes shorter.
- The operating time varies according to charging state, temperature(low/high), radio wave condition in the area of use, andbacklight status.

Basic Operation

Power ON

Power OFF

Placing a Call

Receiving a Call

Unanswered Call Display

Electronic Dialing Feature

Called List

Power ON

Press and hold END/⏻ ➡

```
                    [icon]
        MOTOROLA
```

➡

```
Yₐₗₗ                [icon]
        3/28[Tue]
        5:47pm
      MOTOROLA
 Menu    😊   Mail ✉
```
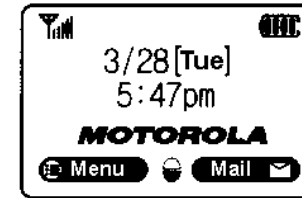
The service lamp lights up, Motorola logo is displayed, and the phone is reset to the initial screen.

Power OFF

Press and hold END/⏻ ➡

```
          Ⓜ
```
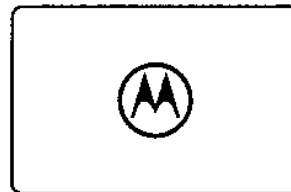
The Motorola logo disappears and the power is turned off.

Placing a Call

Press the desired area code and phone number.

→ SEND →

```
Y.ill                    ▥
        00:00:04

             XX-XXX-XXXX
  Menu        Mute ◀))
```
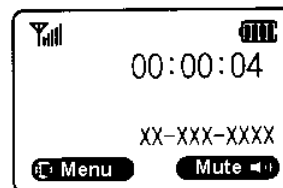
→ **After the call, close the flip or press** END/(1)

Other call placing modes

Turbo dialing: Press and hold the last number of the desired phone number set up in a memory location. (See p.25.)

Electronic dialing: Used conveniently for ARS.

Emergency dialing: Call can be placed even with the phone set to 'Lock' mode. (See p.56.)

Voice dialing: You can use your own voice to place a call without pressing [Dial] buttons. (See pp.63.)

After the call, close the flip or press (END).

Receiving a Call

The phone audibly rings.

→ **Open the flip to receive a call.**
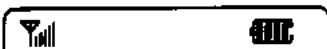
→ **After the call, close the flip or press** END/(1)

If vibrator or lamp is set, the phone produces vibration or the lamp flashes.

If the flip remains open, press any button. (except for END button)

Unanswered Call Display

If the user fails to receive a call, the following is displayed on the display screen:

```
Y.ill                    ▥
3/28   2:39pm
Unanswered   (📵)
Call    001
List    ( OK )
```

Any phone numbers received during absence of the user are stored in 'Unanswered Call

Electronic Dialing Feature

This is a convenient feature that enables the user to enter in advance a few phone numbers as dictated by voice instructions when using ARS.
Pressing ⬆⬇ while entering a phone number can enable you to select PAUSE.

T(Temporary Pause) 🔼	P(Continued Pause) 🔽
If you add 'T' behind a phone number, the number behind 'T' will be sent shortly after.	If you add 'P' behind the appropriate number, SEND button should be pressed to send the number behind 'P'.

Called List
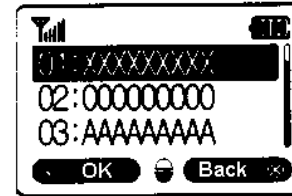
Pressing ⬇ displays Called List.

- **Use ⬇ or ⬍ to search the list.**

- **Using ⬅ to select ⟨OK⟩ displays the stored called list.**
  (Sequence of storing, Name, Date, Time, Phone Number)

  Using ⬅ to select 'STO' stores the selected number in Phone Book.

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Using Menu Features

Phone Book

Tone Type Selection

Alarm/Timer

Personal Information Management

Phone Option

Lock/Security Features

Game

Voice Dialing

Changing Vocoder

Phone Book

This feature is used to display a stored called list in the sequence of name. You can store frequently used phone numbers and use easily search mode to place a call. Up to five phone numbers for each name can be stored or searched.
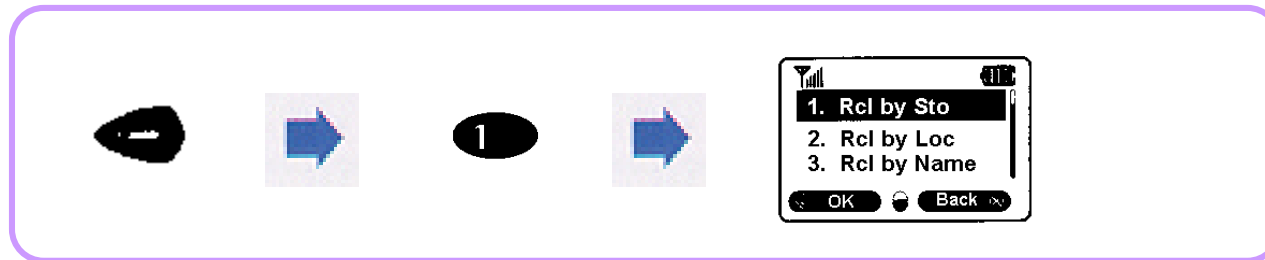
To Store Phone Numbers in Phone Book

To store phone numbers in Phone Book

Press [OK] to select a desired category.

Message is displayed and then [Enter Number] is displayed.

- Memory location displays the recent locations that are handy.
- Pressing dial buttons enables you to enter a desired location directly.
- Up to 8 names can be entered.
- When a name is entered, if there is the same name already stored in the location, a message is displayed to confirm whether you want to enter it.
- Up to 300 locations can be stored, and up to 1,500 numbers can be entered.

Turbo Dial Setting

When placing a call, pressing and holding the last number of the memory location places a call to the phone number in the icon, among the five icons, where turbo dial has been set.

To end, press

Turbo dial is set to only one number selected among those items with numbers entered.

Correction and Editing

This feature enables you to correct, add, or delete the previously stored numbers.

After searching a number
to be corrected, press OK.

After [ ] pressing to editing
the content, store it by
pressing [OK] .
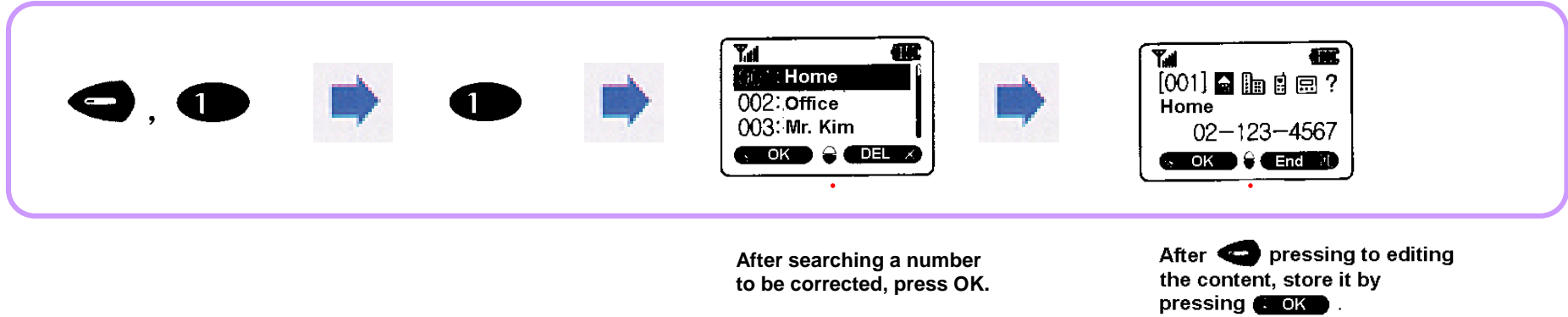
Searching

Recall by Stored

This feature enables you to easily search locations stored in sequence.

If there is no number stored, 'No Number in Memory' is displayed.

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Recall by Location

This feature enables you to enter a desired location and then to confirm the information about the appropriate location.
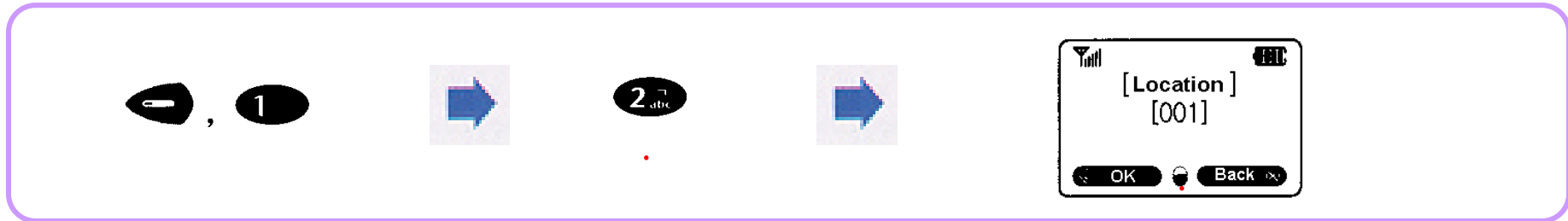
After entering a location to search, press OK

Pressing CLR **during the search moves to the previous menu.**

Recall by Name

Entering a desired name displays the information about the selected name.

Entering only one character from a desired name displays all the registered names with the appropriate character in sequence.

After entering a desired name, press OK. After select a desired name and then press SEND, a call is connected to the appropriate number.

Phone Book Status

This feature displays the number of memory locations both being used and available on phone book set by the user.
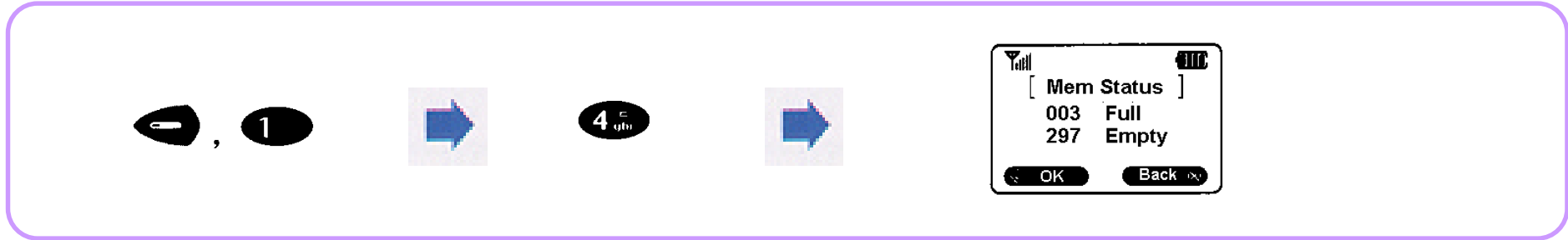
Caller Line Indicator List (CLI Feature)

Information about originators is displayed. Up to 10 numbers are stored.
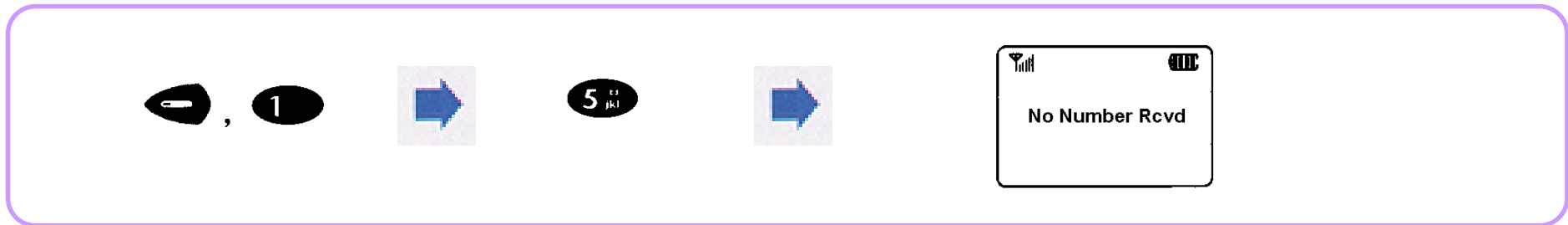
This feature is available only if the service provider provides this service. For details, consult your service provider.

Unanswered Call List

If the user fails to receive calls, the incoming call numbers are displayed up to 10.
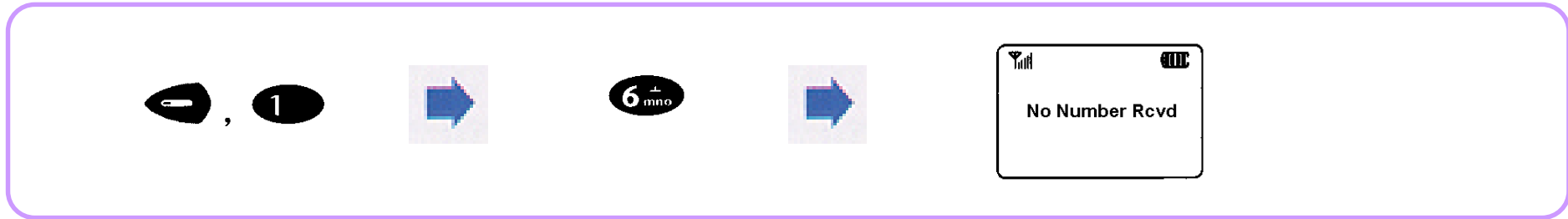
- If a call is received to a number stored in memory location, the number is displayed together with the appropriate name.

  This feature is available only if the service provider provides this service. For details, consult your service provider.

View Phone Number

This feature enables you to view your own phone number.
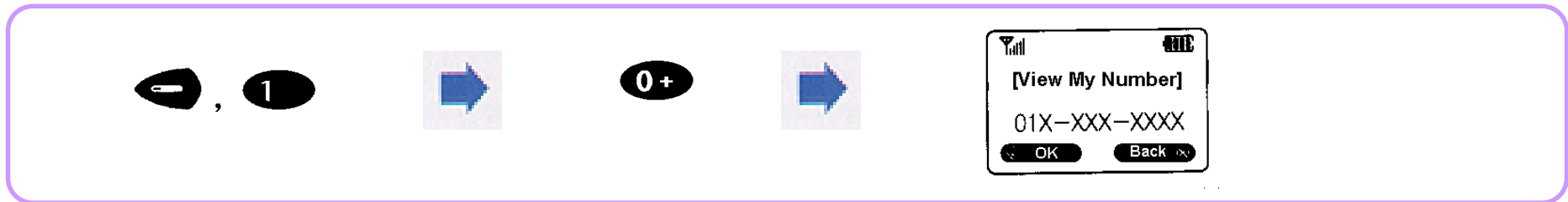
Tone Type Selection
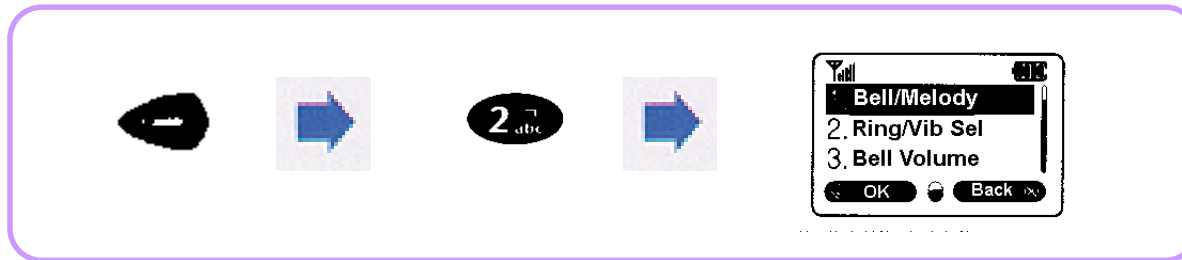
Bell/Melody

The user can select a desired ringer tone type from 4 types of bells or 10 types of melodies. Also the user can use the melody download service provided by your service provider to use 3 more types.

Select a desired type of bell.
(Bell: Bell 1   Bell 4
Melody: Melody 1   Melody 10
User: User 1   User 3)

Etiquette Mode

This feature allows you to change Bell mode to Vibrator mode in order not to make yourself a nuisance at a meeting, in class, or in a public place.

1. Setting   **2. Clearing**

Press and hold ⬤ button.   ➡️   Etiquette mode is On.

Press and hold ⬤ button.   ➡️   Etiquette mode is Off.
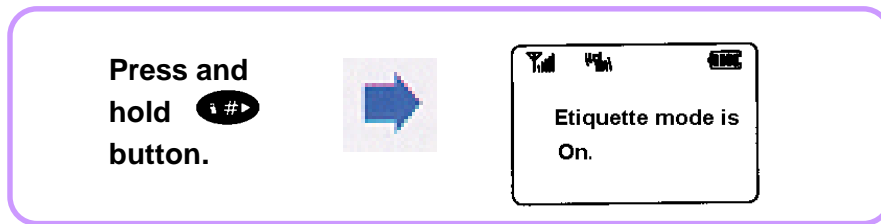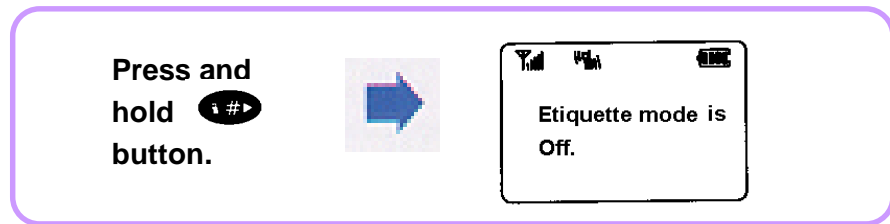
Ring/Vibration Selection

This feature allows you to select a ringer tone for an incoming call or message.

⬤ , 2abc   ➡️   2abc   ➡️   [Ring/Vib Sel] Bell Vib OK Back
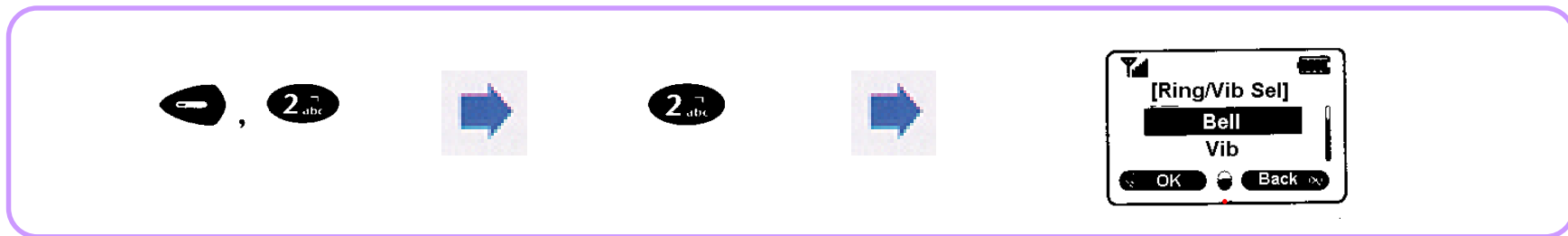
- Bell: Bell tone sounds. 'Bell   is Selected.' is displayed.
- Vib: Vibration is produced. 'Vibrator' is Selected.' is displayed.
- VibThenBell: Bell tone sounds after vibration. VibThenBell is Selected.' is displayed.
- Lamp: The lamp only flashes. 'Lamp is Selected.' is displayed.

Set a desired ringer tone.
(Bell/Vib/VibThenBell/Lamp)

Bell Volume

This feature is used to adjust the volume of ringer tone sounded when a call is received.
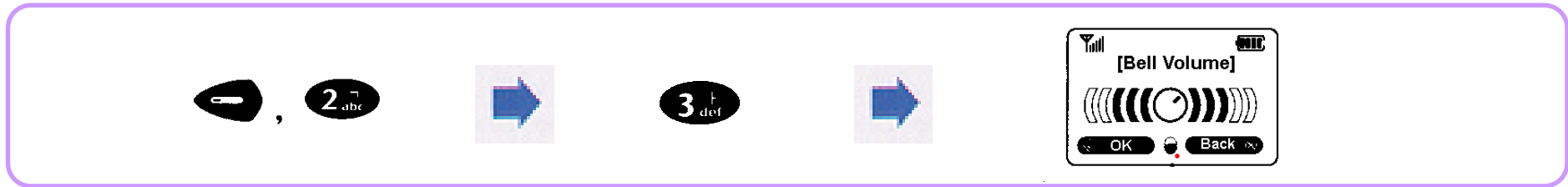
After using ▲▼ or ▮ to adjust keypad tone volume. press **OK**.

Earpiece Volume

This feature is used to adjust the volume of voice tone heard through your ear during a call.
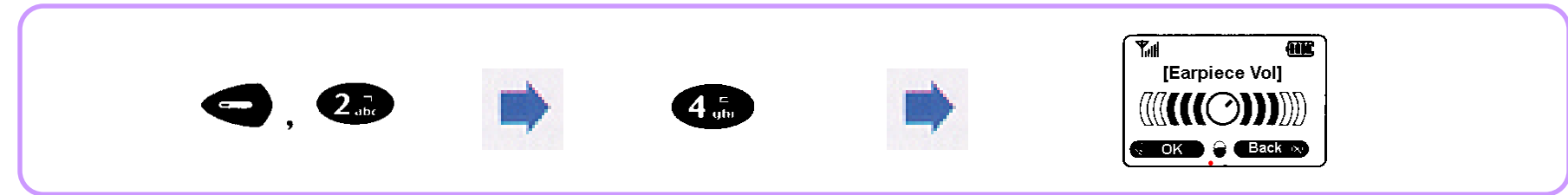
Use ▮ adjust earpiece volume.

After using ▲▼ or ▮ to adjust keypad tone volume. press **OK**.

Keypad Tone Volume

This feature is used to adjust the volume of keypad tone heard when a button is pressed.
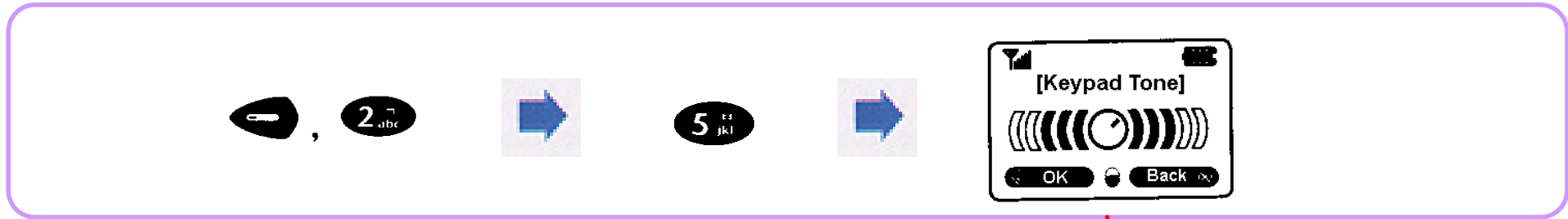
Pressing ⬍ the initial screen adjusts keypad tone.

After using ⬍ or ⬍ to adjust keypad tone volume. press OK.

Call Connection Tone

This feature is used to inform the user that a call is connected.
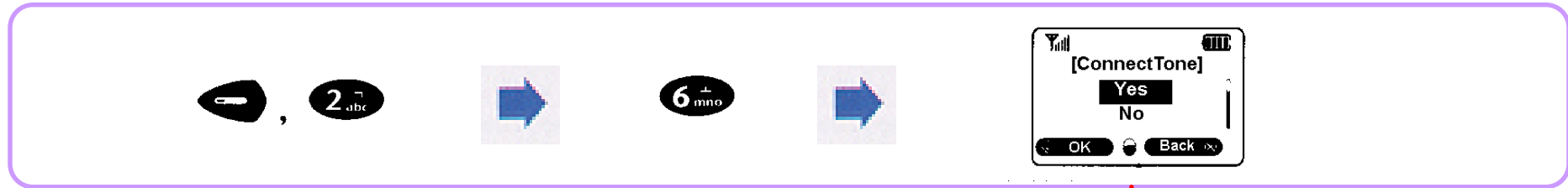
After selecting a desired
setting , press [OK].

DTMF Tone

This feature is used to select a desired DTMF tone.

•When electronic dial is used, if the called party fails to recognize it, adjust DTMF tone
to 'Long'

After selecting a desired
setting , press [OK].
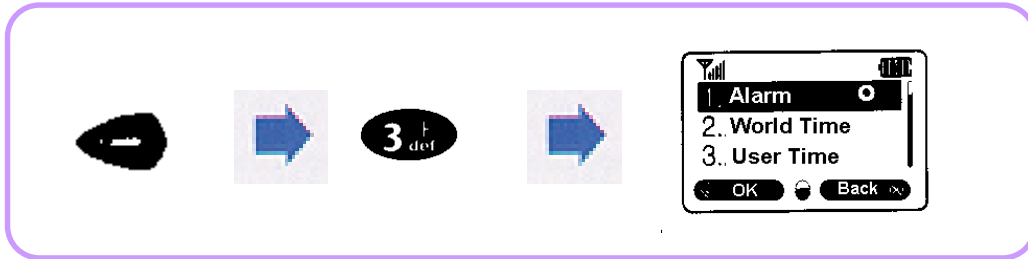
Alarm/Timer

Alarm

Choose Time

Choose Time and Choose Time Off are used to actuate alarm to ring near the time set by the user without designating time specially.
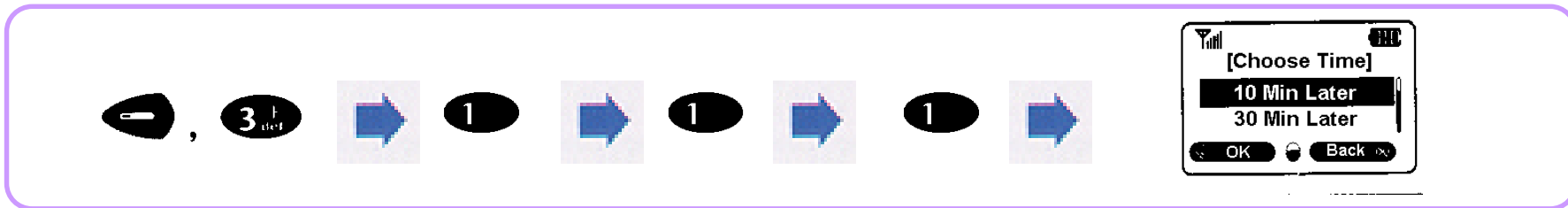
- Select a desired alarm time.
(10 Min Later/30 Min Later
/1 Hour Later/3 Hour Later)

Choose Time Off

This feature is used to reset alarm time if it has been set in Choose Time mode.

Select 'Yes' or 'No'.

Programmable Alarm Time

You can set time and alarm ring period to actuate alarm to beep at the desired time.

Enter time.

Select a desired alarm period.

<Time setting>

1. Hour: Press 'DIAL' buttons or use ⬍ .
   When using 'DIAL' buttons: The cursor moves to the next space automatically.
   When using ⬌ : Select OK and then move to the next space.

2. am/pm is set by using ◀ ▶ or ⬍ .

3. CLR button: Used if you want to move to the previous time.

- Event   Alarm rings once at the designated time.
- Everyday   Alarm rings at the designated time everyday.
  To stop alarm tone, press any key, or open and then close the flip.

Alarm off of designated time

If alarm has been set using 'Set Time', you can set this alarm feature to Off.

● , 3def ➡ 1 ➡ 2abc ➡ 2abc ➡

[Set Time Off]
Yes
No
OK   Back
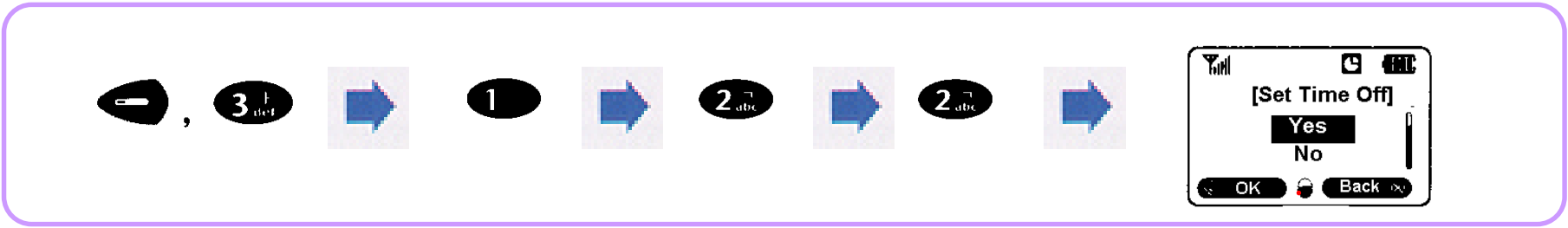
Select 'Yes' or 'No'.

World Time

This feature displays the time of major world cities.

Use ⬆⬇ or ⬍ to select a desired city.

Cities for which world time is displayed

Seoul Tokyo	Hong Kong Singapore	Bangkok	Baghdad	Moscow
Athens Cairo	Rome Berlin Paris	London Madrid	Toronto Washington	Chicago
Los Angeles	Hawaii	Guam Sydney Melbourne	Beijing Taipei	New York Miami

User Time

This feature is used to set the time displayed on the initial screen to a desired local time.

Select 'ON/OFF   Enter a desired time.
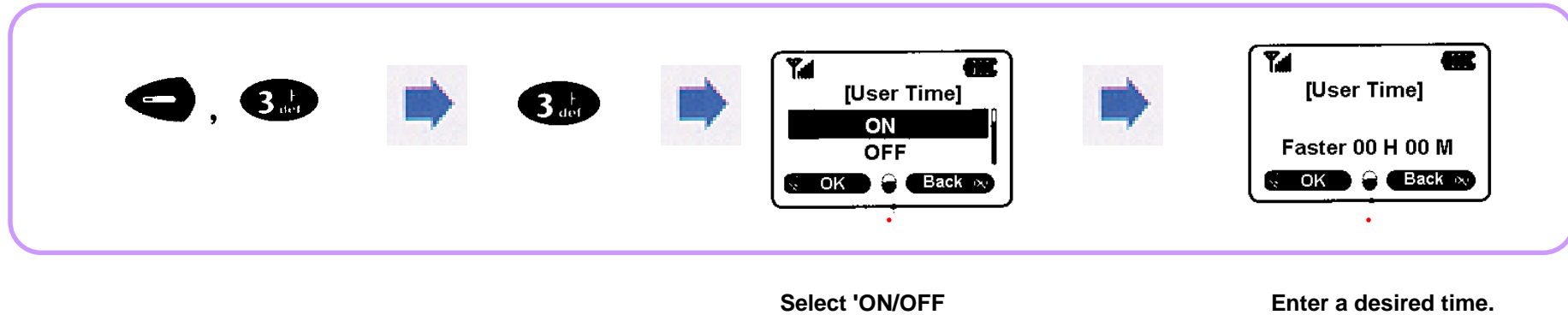
■ **Changing User Time**

1. If 'Faster' flashes, use [left] [right] or [up/down] to select 'Faster/Slower'.

2. Press [OK] to move to the next step.

3. Use [up/down] or 'DIAL' buttons to enter a desired time.

4. Select [OK] to finish the entering process.

5. Press [CLR] button to move to the previous menu.

6. If the user time is changed, [icon] icon is displayed in the initial screen and a message is displayed to inform you that user time has been changed.

Individual Timer

This feature is used to display the last call time.
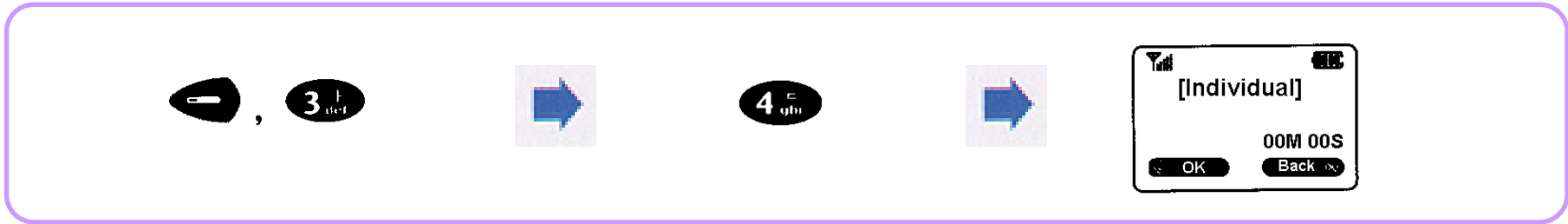
Cumulative Timer

Using this feature displays the total call time up to present time from the beginning in XX calls/X minutes and XX seconds.
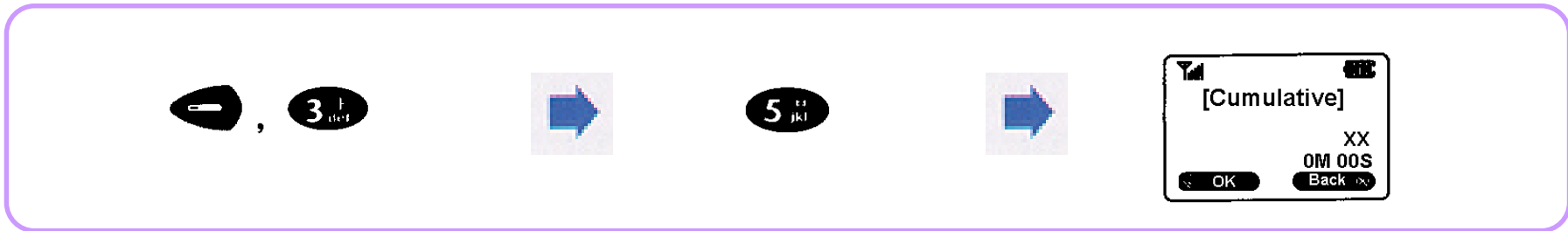
The Cumulative Time cannot be reset.

Roaming Timer

This feature is used to display the call time for roaming service in X calls/X minutes and XX seconds.

```
◁, 3def  ➡  6mno  ➡
```

```
[Roaming Timer]

              XX
           0M 00S
   OK        Back
```

Reset Timer

This feature is used to display the cumulative call time up to the present time from the call time resetting in X calls/X minutes and XX seconds.

```
◁, 3def  ➡  7pqrs  ➡
```

```
[Reset Timer]

              XX
           0M 00S
  Reset      Back
```
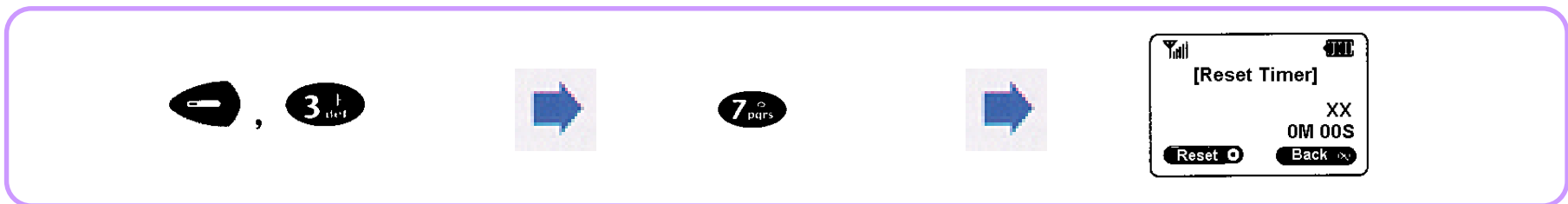
How to reset
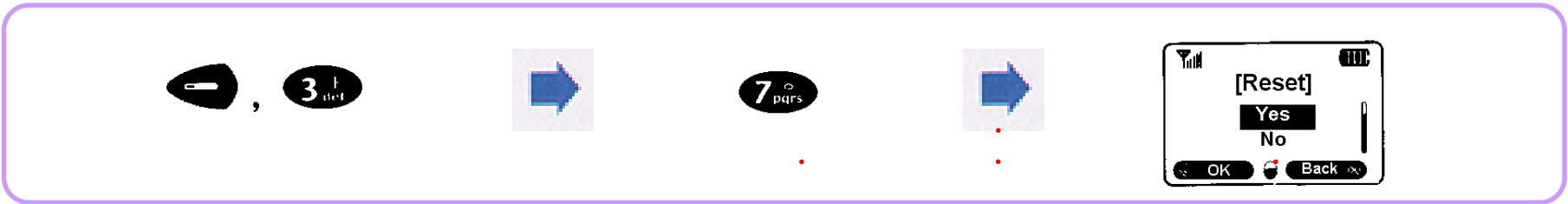
Use 🔘 to select Reset ◯ .

Select 'Yes/No'.

One(1) Minute Timer

This feature checks up call time during calls and actuates alarm to ring at every end of elapse of every minute from call connection.
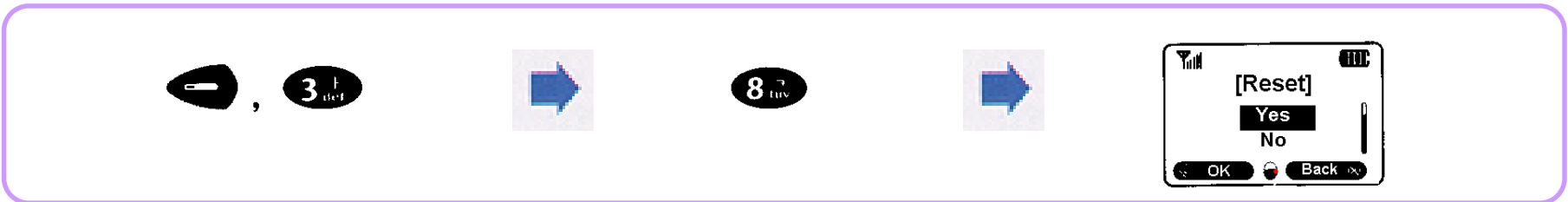
Select 'Yes/No'.

Personal Information Management

| 1. Schedule |
| 2. To Do |
| 3. Calculator |
| OK   Back |

Schedule Management

Once the user's schedule has been stored, the alarm beeps when the actual date and time falls on the set date and time and displays the content stored. Up to 10 schedules can be registered.

| 1. Schedule 1 |
| 2. Schedule 2 |
| 3. Schedule 3 |
| OK   Back |

[Content]
Chulsoo's
Wedding Ceremony
OK S@ KOR

[Set Time]
07 H 30 M pm,
April 1
OK   Back

[Alarm Time]
On Time
-10 Min
OK   Back

Schedule 1
is Completed.
OK   Back

2000
4
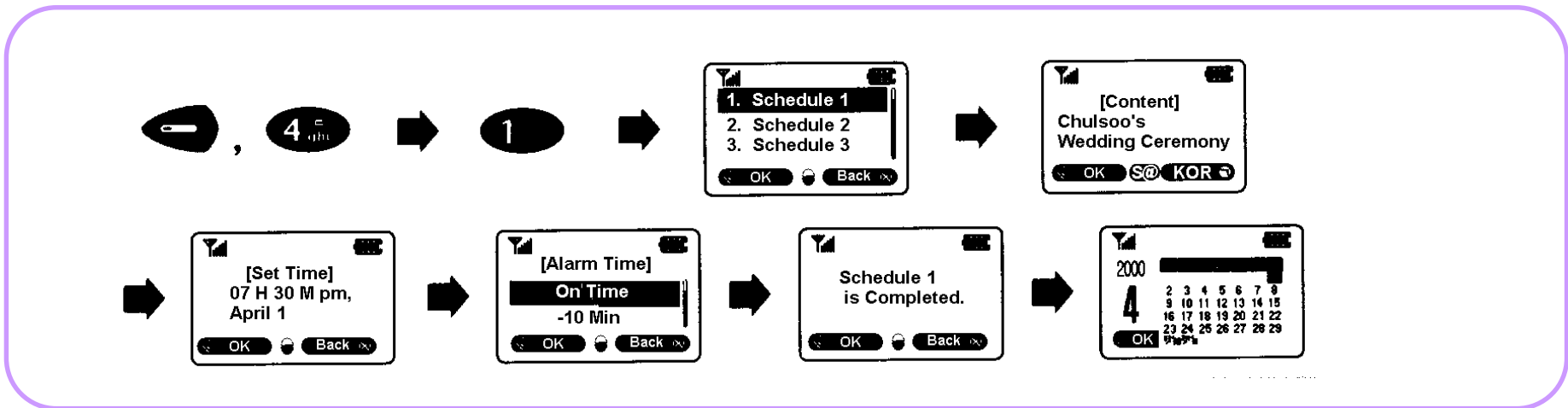
Confirming Schedule

1. Use ⬍ or ⬍ set a stored schedule item and then press ◄ OK ► .
2. The set date is displayed on the calendar.
3. Use ⬤ to select ꓦ OK , and the content of the stored schedule will be displayed.

Deleting Schedule

1. Use ⬤ to select DEL ✕ .
2. Use ⬍ or ⬍ to select 'Yes', and then press ◄ OK ► .
3. 'Deleted' is displayed.

To Do List

This feature is used to make the list of schedules for the user and actuate an alarm to ring at a desired time.
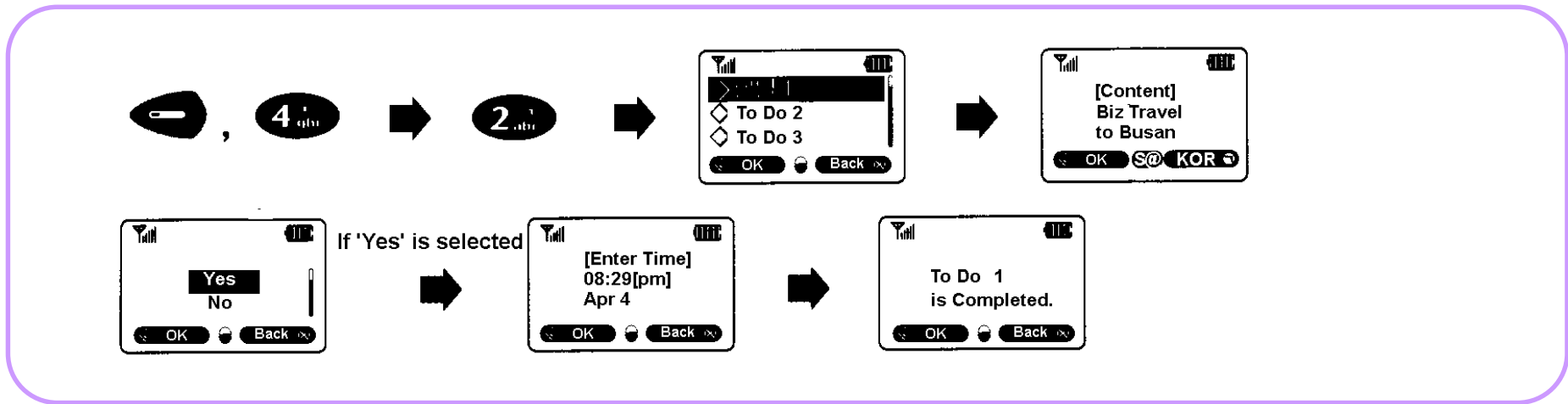
- **After specifying an item to be entered using ⟳ or ⫿ , press ⟨OK⟩ .**
- **After entering the content to be stored, press ⟨OK⟩ . (Up to 16 Korean characters)**
- **After specifying alarm timer using ⟳ or ⫿ , press ⟨OK⟩ .**
- **Enter the time and then check the To Do list, and ◇ will be displayed in ✓ .**

✳ **If time is not entered, it cannot be displayed on the calendar.**

Confirming To Do List

Specify an item to be confirmed using ![icon] or ![icon] , press ![OK] .

<If time is designated>

1. How to display the designated on the calendar

2. Using ![icon] to select ![V OK] displays the stored information.

3. Selecting 'ON/OFF' moves to the previous menu

<If time is not designated>

1. How to display the information about To Do stored.

2. Selecting 'On/OFF' moves to the previous menu.
- ON: ![icon] is marked before the To Do stored
- OFF: ![icon] is Marked before the To Do stored

Deleting To Do List

1. After confirming the information about the To Do stored, use ![icon] to select ![DEL x] .

2. 'Delected' is displayed and the screen moves to the previous menu.

Calculator

This feature is used for simple calculation(, , ,).
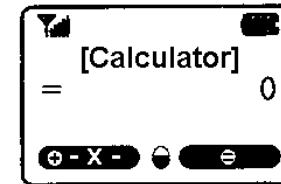
1. Enter a figure.

2. Use ⏶⏷ to specify a desired sign and then select ⬅ .

3. Enter a figure.

4. Enter 🔘 to obtain the result.

✳ To correct an entered figure, press 🔘 button.

✳ If a figure exceeds the set digits, 'Overflowed' is displayed and the screen moves to the previous menus.

✳ In division, up to 2nd decimal place is given.

✳ To reset the phone after completing the calculation, press 🔘 and then 🔘 🔘 .

Calendar

This feature is used to view various calendars for the present, past, and future as well lunar calendar.

Press ⬭ to confirm
the lunar calendar
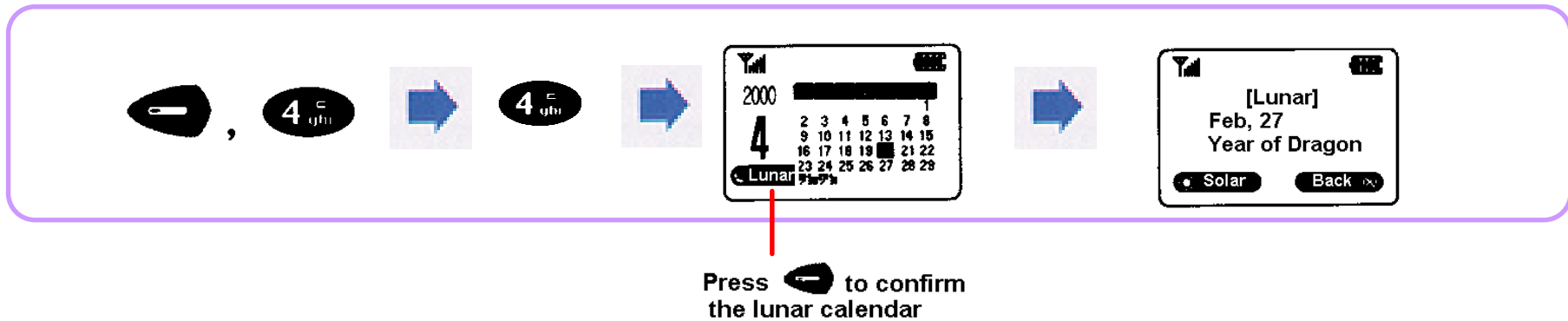
1. Using ⬭ ⬭ enables you to view the previous month and next month.

2. Using ⬭ or ⬭ enables you to move to other date on the current month.

3. The calendar to be displayed covers the period from 1980 to 2044.

4. ⬭ : Used to recall the previous menu.

Phone Option
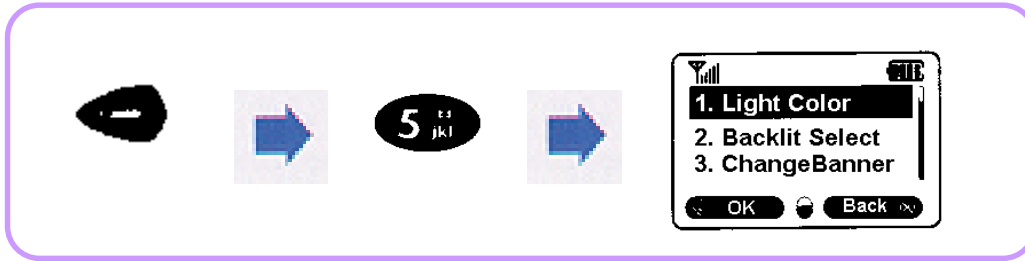
Light Color Selection

You can change the light color using this feature.
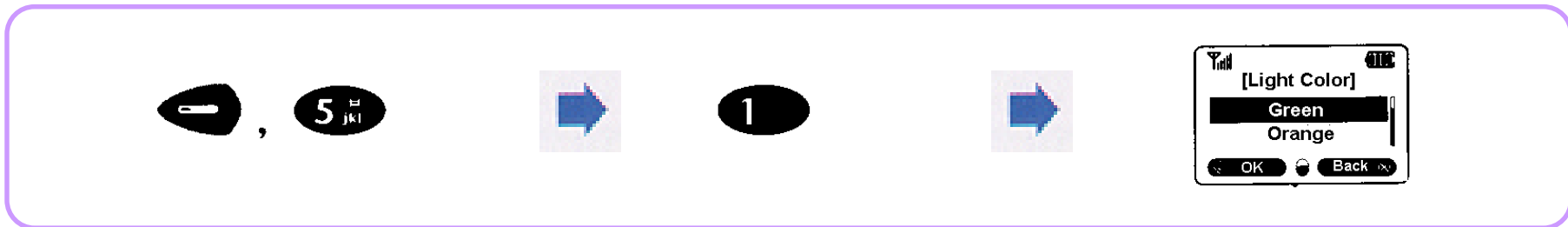
• If a call is received, the backlights in 7 colors light up
  one after another to indicate that a call is received.

Select a desired light color.
(Green/Orange/Red/Blue/Azure/Yellow/White)

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Backlight Selection

You can use this feature to set the length of time for backlight to light up.
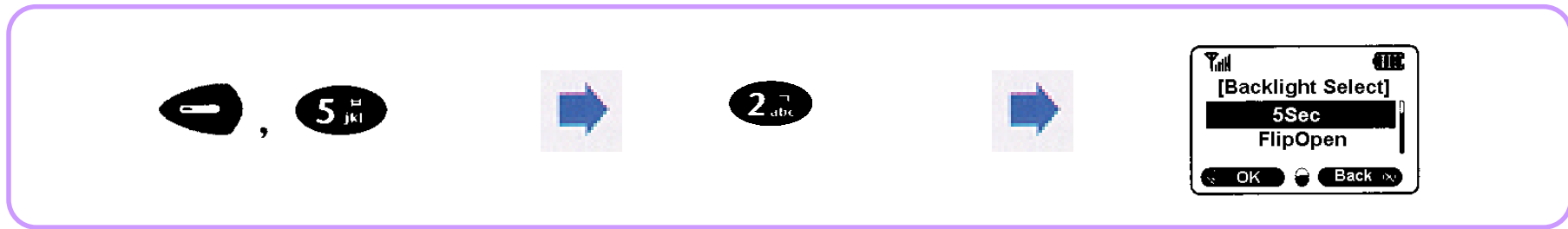
**Select a desired backlighting time.
(5Sec/FlipOpen/Off)**

Change Banner

Using this feature, you can change the content of the initial screen.

How to enter Korean and English characters: See p.80.

Selecting OK displays a changed screen.

Auto Area Code
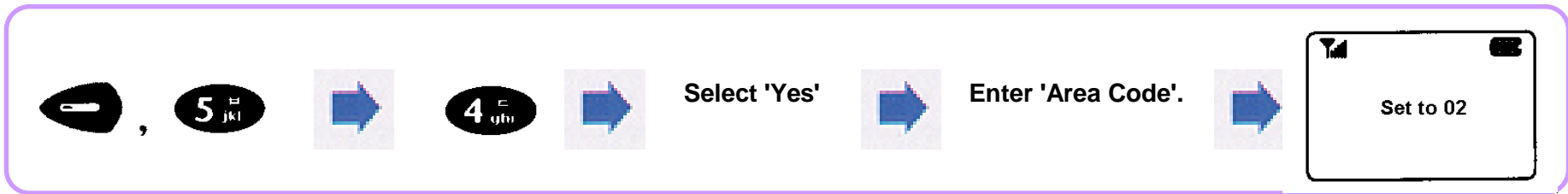
You can use this feature to set frequently used area codes so that they can be recalled automatically whenever you place a call.

When setting an auto area code, if opening the flip, the set area code is displayed.
If you do not want to use the displayed area code, only press **CLR** delete it.
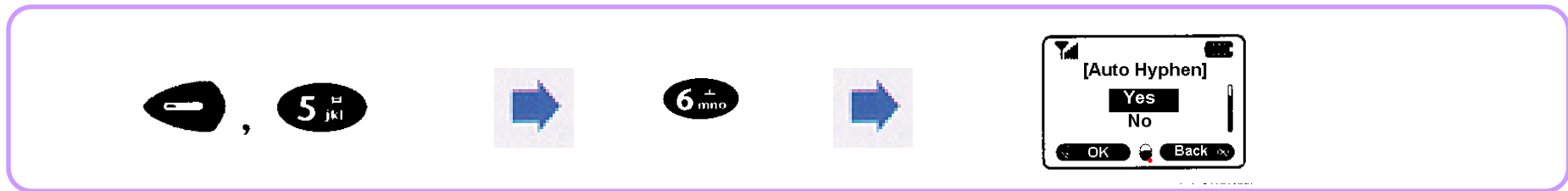
International Call Number Setting

This feature is used to display a frequently used international call number using quick dial **0+** en you place an international call.

Pressing and holding **0+** r setting an international call number displays the set number.

Auto Hyphen

This feature is used to insert a hyphen(-) automatically when inputting a phone number.

'Auto Hyphen is set' is displayed after setting process.

Select 'Yes' or 'No'.

Auto Redial

This feature is used to redial phone number automatically when it is difficult to connect a call due to heavy traffic or weak signal strength.


When this feature is selected, the phone attempts redial at intervals of 5 seconds automatically
When this feature has been cleared, if you want redial, press again ⬤SEND ton.

Select 'Yes' or 'No'.

Auto Answer

If this feature is enabled, when a call is received, the ringer beeps or vibration is produced, and then the call is connected automatically.


```
Y.ill            (IIIC
   [Auto Answer]
      Yes
      No
 OK    �(    Back
```
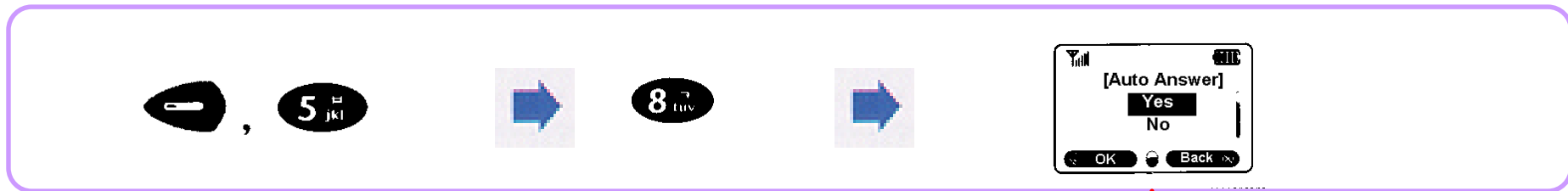
If 'Yes' is selected in Auto Answer, the ringer beeps or vibration is produced 3 times and then the call is automatically connected.

**Select 'Yes' or 'No'.**

Power Up Banner

You can change the logo appearing on the initial screen using this feature.


```
Y.ill            (IIIC
   [PwrUpBanner]
      Brand
     Operator
 OK    �(    Back
```

**(Select a desired logo.
(Motorola/Brand/Operator)**

Lock/Security Features

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This feature has the purpose of preventing an unauthorized person from using the information stored in your phone without permission. To enable Lock/Security feature, enter your Lock Code first. The default Lock Code of this product is factory-set to 0000. If you register your phone for service, the last 4-digit number of your phone number is set as your Lock Code.

Enter
'Lock Code'.

1. Lock Mode
2. Emergency
3. ChngLockCode
OK   Back
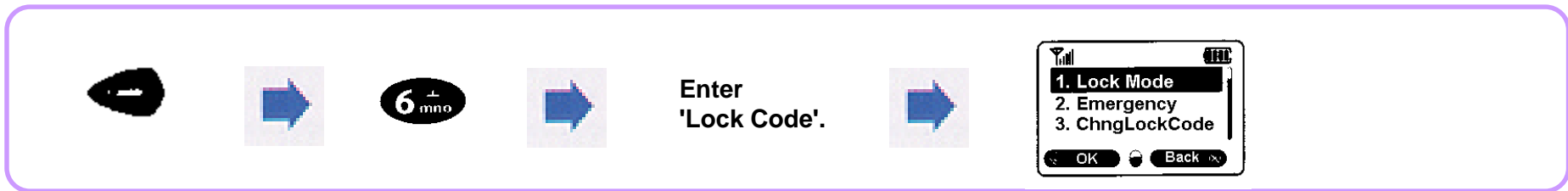
Setting Lock Mode

This feature is used to set LOCK feature in order to prevent an unauthorized person from using your phone.

Enter
'Lock Code'.

[Lock Mode]
Yes
No
OK   Back
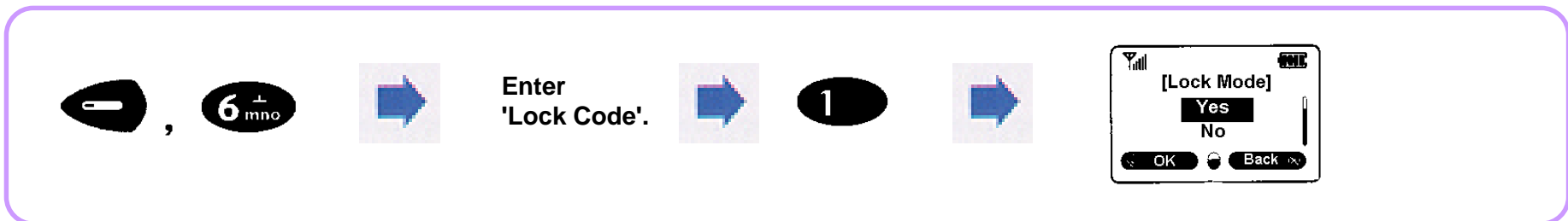
You can receive a call even with your phone locked.

Even if you turn the power Off and then On, your phone maintains LOCK status.

Even if your phone remains locked, you can place an emergency call.

(Emergency call number usable: 112, 113, and 119. Emergency call numbers stored: 1   3.)

If 'Yes' is selected   'Lock Mode is On' is displayed.
If 'No' is selected   'Lock Mode is Off' is displayed.

Auto Lock Mode

\<Setting Lock On\>

\<Setting Lock Off\>

Pressing and holding button sets Lock Mode.

3/28[Tue]5:47pm
Tue

MENU   MAIL

Enter 'Lock Code' of 4 digits in Lock Mode and select [UNLOC].,
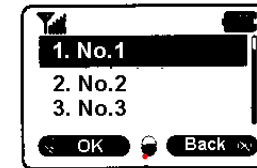
****

UNLOC   BACK

Emergency Call

You can place a call to the numbers stored as emergency calls even if the phone has been set to Lock Mode.

, **6** mno   **Enter 'Lock Code'.**   **2** abc

1. No.1
2. No.2
3. No.3

OK   Back

Deleting Emergency Call Number

- A number stored in Emergency Call is not displayed on the screen.
- Up to 3 emergency call number can be stored.
- To delete an emergency call number, move the cursor onto the appropriate number and then press CLR

After selecting a desired item using or and then input an emergency call number. (No.1/ No.2/ No.3)

Changing Lock Code

The Lock Code is used to set Lock Mode to Off or gain access to other security feature. You can change this Lock Code to a new one.

☎ , 6 mno ➡ Enter 'Lock Code'. ➡ **3 def** ➡
```
[ChangeLockCode]

[ _ _ _ _ ]
                    Back
```

Enter 'Lock Code' and 'New Lock Code' and then check them.

Clearing List

This feature is used to delete a phone number or content stored in the phone.

☎ , 6 mno ➡ Enter 'Lock Code'. ➡ **4 ghi** ➡
```
1. Clear Phone Book
2. Clear last 10 Called
3. Clear CLI List
    OK        Back
```

Use ⬍ or ⬍ to select a desired item.

**(Clear Phone Book/Clear Last 10 Called/Clear CLI List/
Clear Unanswered Call List/Clear Schedule/Clear To Do List)**

Restricting Calls

This feature is used to restrict the originating of a specific phone number.

Memory Restrict: To restrict the origination, storing,
and editing of a call number stored in Phone Book

After using ⬍ or ⬍ to specify a desired item, select it.
(Yes/No)

(Int'l Call Restrict/700 Restrict/Memory Restrict)

Master Reset
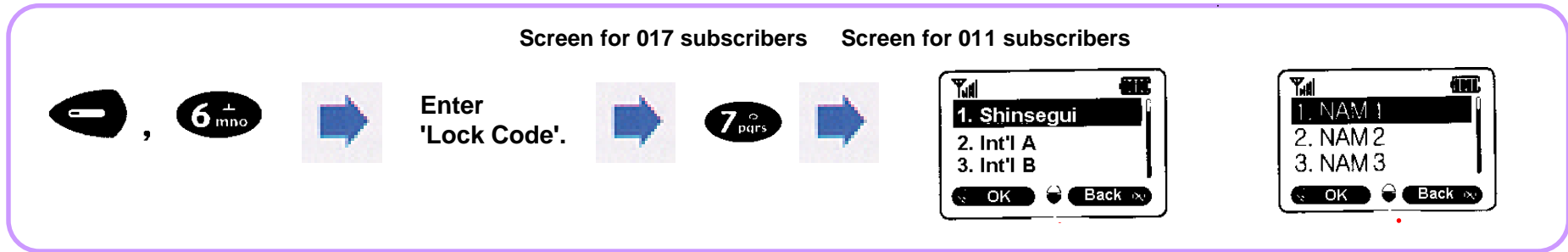
This feature is used to reset the phone feature to the initially set status.However, the information stored in the memory location cannot be reset.

After using ⬍ or ⬍ to specify a desired item, select it.
(Yes/No)

Changing NAM

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This feature is used to select one phone number among those that have been registered with 2 or more service providers.

Screen for 017 subscribers   **Screen for 011 subscribers**

⬛ , **6** ⟶ Enter 'Lock Code'. ⟶ **7** ⟶

```
Yoll              ▥
1. Shinsegui
2. Int'l A
3. Int'l B
  OK      Back
```

```
Yoll              ▥
1. NAM 1
2. NAM 2
3. NAM 3
  OK      Back
```

Unregistered NAM is indicated as '000-000-0000'.

After using ⬍ or ⬍ to specify a desired item, select it.

Setting Navigation Key

Setting Navigation Key restricts the operation of the External Function Key ⬖

⬛ , **6** ⟶ Enter 'Lock Code'. ⟶ **8** ⟶

```
Yoll              ▥
   [Key Lock]
      Yes
       No
  OK      Back
```
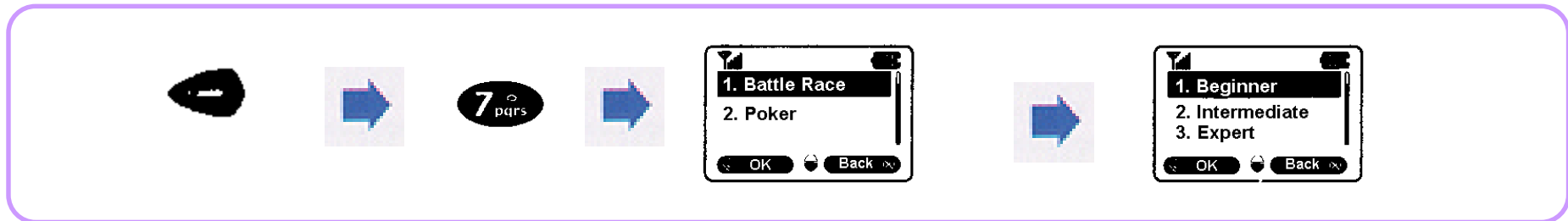
Software Version

This feature is used to display the Software Version of your phone.
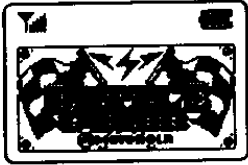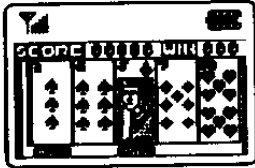
Game

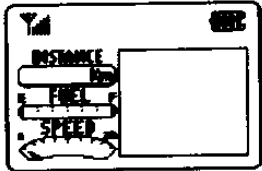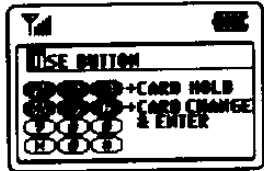If a call is received while you are enjoying a game, it is stopped automatically.

- To start a game: Press any key(except END/(1) button).
- To quit a game: Press END/(1) button.

**Select a desired game,
and then select a desired level.**

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Game	Function of Button		Initial Screen	Starting Screen
Battle Race	) (-) r righ Fire	△ : ▽ : ← → : 6 :		
Poker	USE BUTTON +CARD HOLD +CARD CHANGE & ENTER card	1 ~ 5 : 6 :		

Voice Dialing

With this feature set up, your phone recognizes your voice and places a call without your pressing [Dial] buttons.
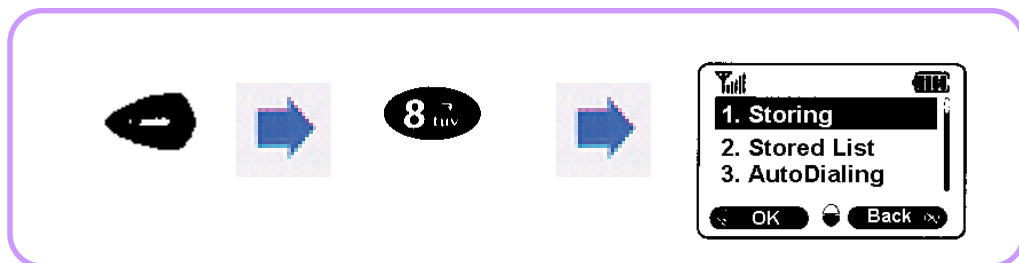
Storing Voice

Register the name of a called party to whom you want to make a call using voice dial.

Say the name twice as dictated by voice instructions.
After entering a phone number, store it.
(Up to 10 voice dials can be stored in the list.)
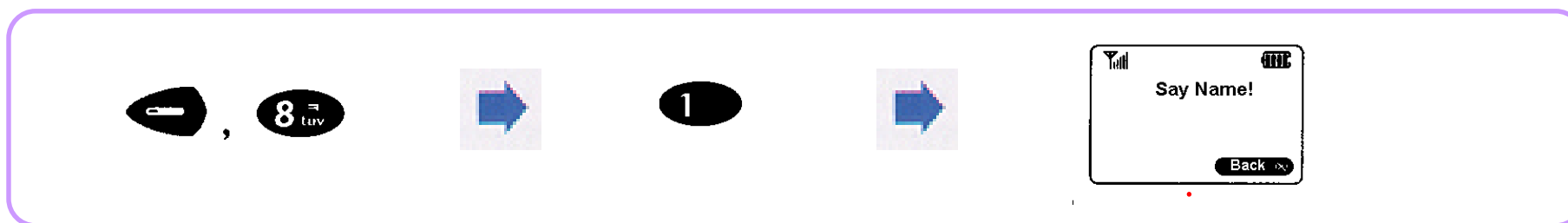
Stored List/Deletion

This feature is used to confirm or delete the stored list.
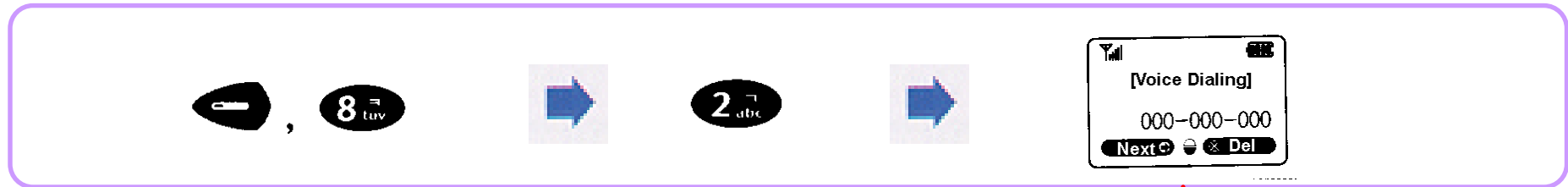
You can hear the stored name in the selected list.

After using [up/down] or [up/down] to specify a desired stored list, delete it.

Auto Dialing

When opened, the flip actuates voice dial automatically to place a call.

Specify a desired setting using [up/down] or [up/down] . (Yes/No)

Clearing All

This feature is used to delete all the contents stored in Voice List.
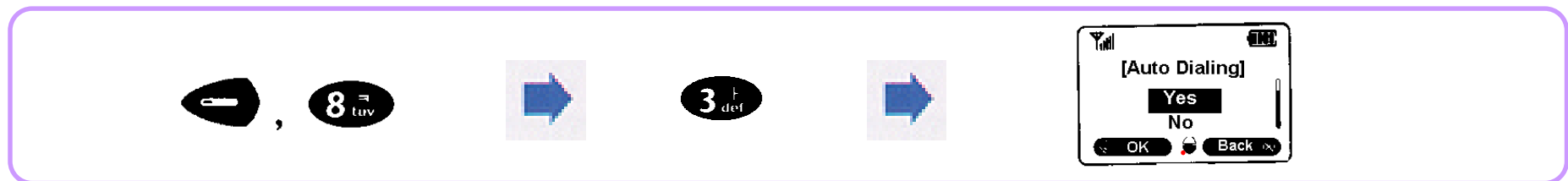
Specify a desired setting
using ⬆⬇ or ↕ . (Yes/No)

Recording Feature

This feature is used to record the content of a phone conversation using your own voice.

Press and hold ↕ button. ➡

[Recording]
Recording Time   00:17
3/31[Fri] 4:25pm
STO   Back
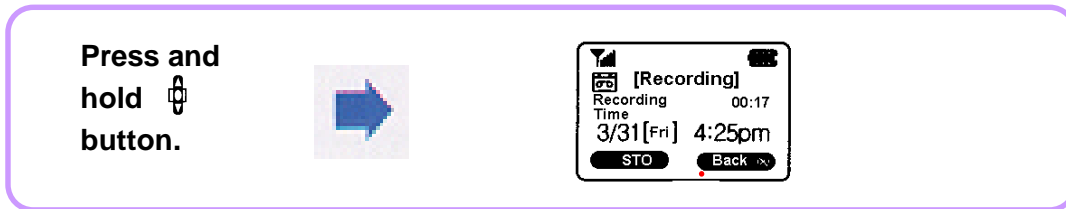
When recording is ended, select STO.

Playing back/Deletion

66   **Press and hold**

[Recorded List]
03/31 15:30 007

```
         ▼■            ⬜
                    ┌──────────────┐
                    │ Y⊿        █▌  │
                    │              │
         ⬍          │ 1. Play      │        ➡
                    │ 2. Clear All │
                    │              │
                    │              │
                    │◀ OK ⬤ Back ◀▶│
                    └──────────────┘
```
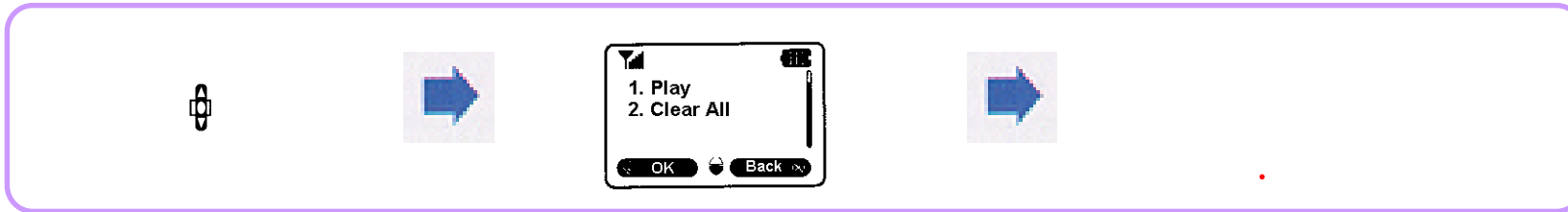
The content of recording is displayed in the sequence of date/time/recording time.

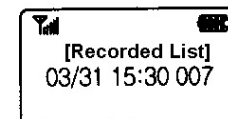Use ⬍ or ⬍ to confirm the content and then select 'PLAY/DEL'.

Changing Vocoder

This feature enables the user to select 'EVRC' mode which is a voice quality enhancing technology built in the product.


```
         ⬭    ➡    0+    ➡    Enter '6-digit    ➡    4 ⬛    ➡    ┌──────────────┐
                                Lock code                              │ Y⊿        █▌  │
                                [000000]'.                             │[Vocoder Select]│
                                                                       │   EVRC       │
                                                                       │    8K        │
                                                                       │◀ OK ⬤ Back ◀▶│
                                                                       └──────────────┘
```
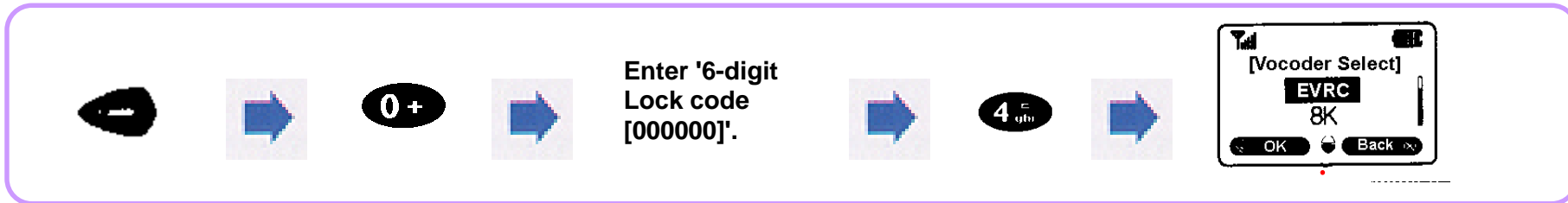
Select a desired Vocoder using ⬍ or ⬍ .

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Features Usable During A Call

Earpiece Volume Control

Scratch Pad Feature

Phone Book

Sending My Phone Number

Muting the Phone

You can control the called party's voice heard through the receiver.

Press ⬍ during a call to
adjust earpiece volume.
(Earpiece volume: 5 steps)

Scratch Pad Feature

You can enter and store a new phone number during a call.

Enter a
phone number.

Press [STO] .
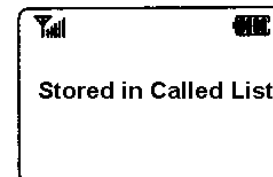
• A phone number stored in Called List can be stored in Phone Book after ending the call.

Phone Book

During a call, you can search and use Phone Book.
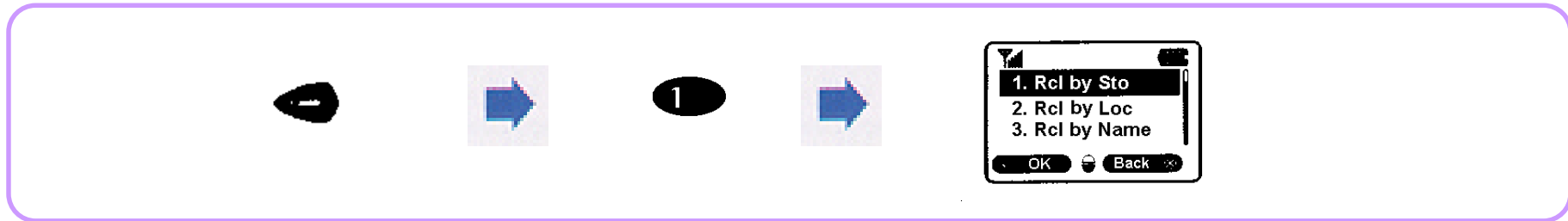
Sending My Phone Number

When a callback number is memorized on the phone or pager, you can use this feature to send your phone number easily.
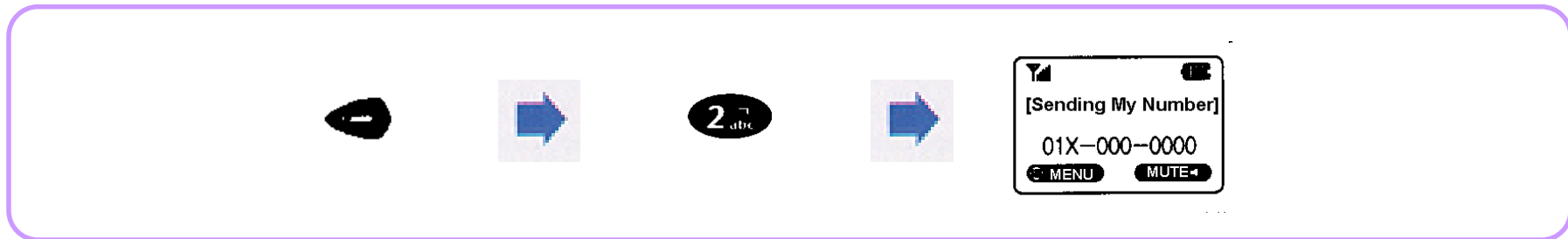
Muting the Phone

This feature is used to mute the phone so that the called party cannot hear your private conversation during a call.

**During a call,
press** ◁━
mute [sending tone].


```
Yₐₗₗ                    ▓▓▓
            [MUTE]

  ◯ MENU          MUTE◀
```

To clear 'Mute': Press again ◁━

i-touch Service

i-station Service

Message Service Features

i-touch Service   (Service exclusively for 017 subscribers)

This is a comprehensive wired and radio portal service provided by Power Digital 017. Using this service, the user can gain access to Int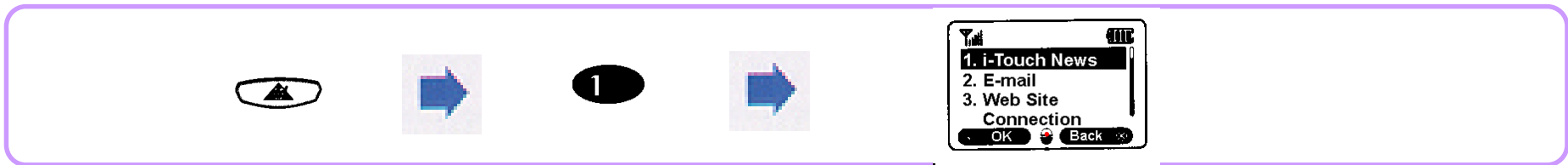ernet to easily search various information. It consists of 7 Networks including i-touch News, E-mail, Web site connection, My Book, My Home, Book Mark, and Service setting, so that the user can search various information efficiently. For details, contact your service provider.

For support of i-touch service, S/W upgrade is a must.
For details of upgrade, contact Motorola's Customer Support Center.

Pressing   [DIAL] buttons connects you to a desired service directly.

i-station Service

(Service exclusively for 017 subscribers)

This provides SMS(Short Message Service) and state-of-the-art SMS feature(broadcasting/interactive) for the user to easily make inquiries/retrieval about desired information. In addition, the user can set services such as the connection of voice information and tracking more easily. For details, contact your service provider.
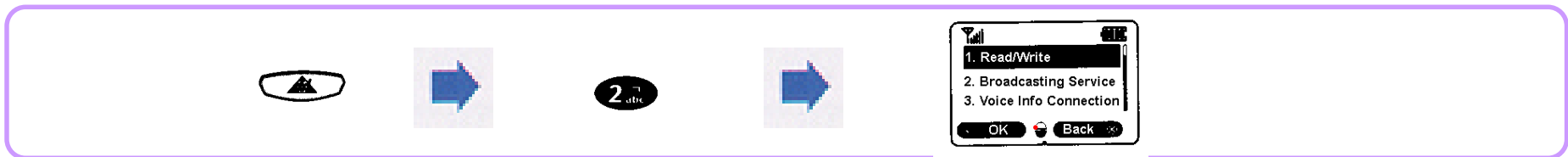
If Key Lock is On,   not operate.

Pressing   [DIAL] buttons connects you to a desired service directly.

(Service exclusively for 011 subscribers)

This is two-way information service for you to search desired internet information using your phone at any time and at any place. It is divided into 4 sections: Information, Economy, Entertainment, and My Network. For more efficient retrieval of information, it ensures quick and easy retrieval of any information and tailored information that you can compile and set only what you are interested in. For details, contact your service provider.
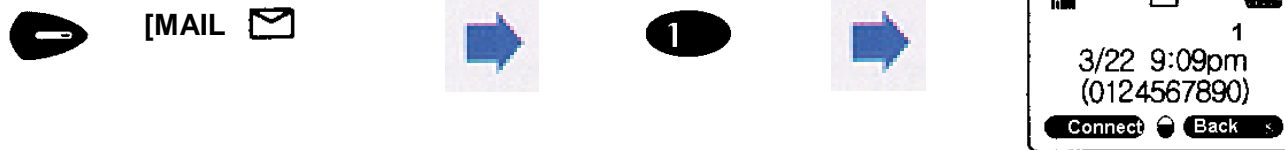
```
 1. Interface with n.TOP
 2. My favorite
 3. Go direct
        OK        Back
```

To go direct to n.TOP: Press and hold and you are connected to n.TOP service directly.

Voice Message

This feature is used to confirm voice message received through Voice Mail.
This feature displays the number/time of the received voice message and a callback number(if the calling party has left it).

Confirming Voice Message

[MAIL ✉   1   📶   ✉   🔋
                                                            1
                                                      3/22 9:09pm
                                                      (0124567890)
                                                   Connect 🔘 Back

If there is no voice message received, 'No Message' is displayed.

Connecting a Call

- Press ⊂⊃ select [CONNECT].

    ➤If there is a callback number: Call is connected to the received callback number.

    ➤If there is no callback number: Call is connected to Voice Mail.

- If a few messages have been received, the information about the most recently received one is displayed.

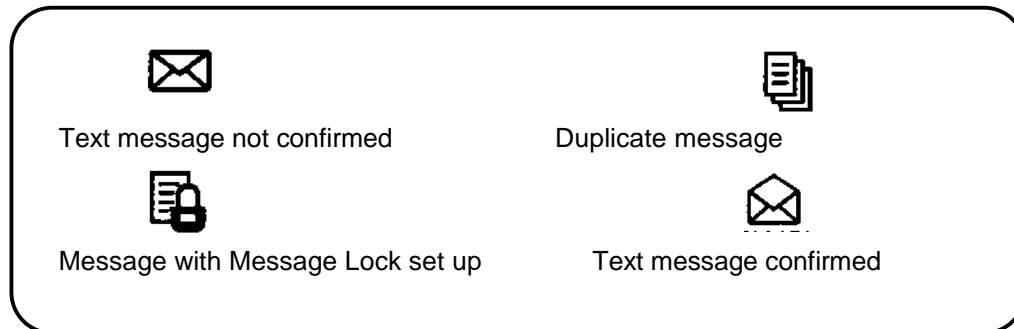**To Delete**

- Press ⊂⊃ select [DEL].

If a text message is received, the phone beeps an alarm and displays 'New Msg Rcvd' on the screen.
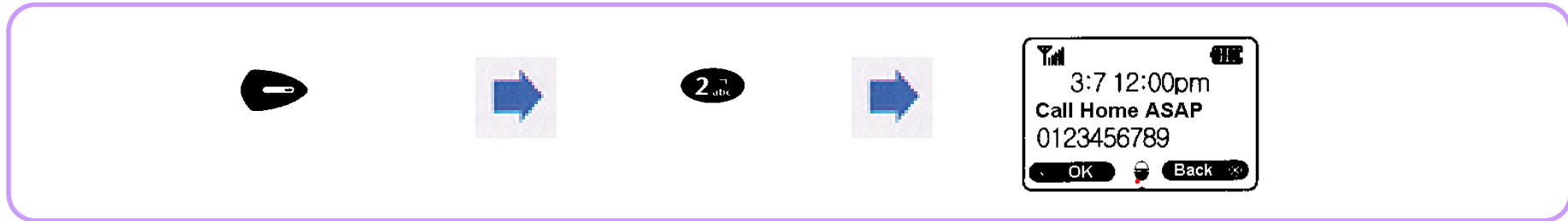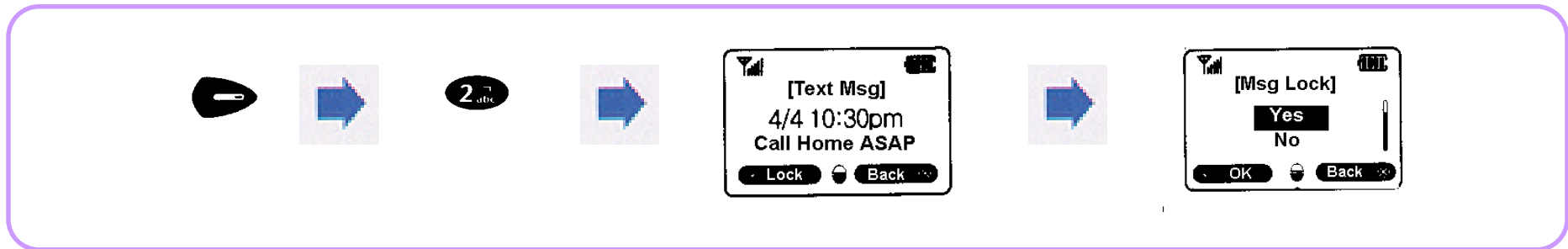

The content is displayed.

- Text messages are displayed on the screen in the sequence of the most recently received one on top.
- If a few messages with same content have been received, the information about the last message is displayed on the screen.
- If the calling party's callback number has been inputted in the received text message, pressing button connects you to that number.

 (If the calling party's number has not been inputted, 'No CallBack Number' is displayed.)

- Pressing (CLR) button while viewing a message recalls the previous menu.

Text message not confirmed　　　　Duplicate message

Message with Message Lock set up　　　Text message confirmed
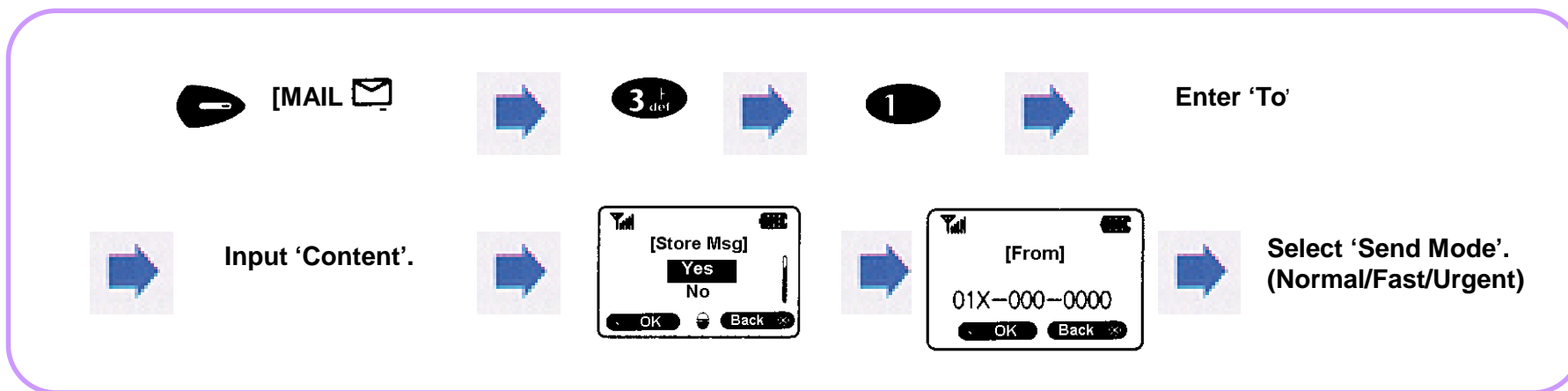
Locking(Storing) Message

This feature is used to store a received message.

With Message Lock selected, even if you set 'Clear All', the locked message cannot be deleted.
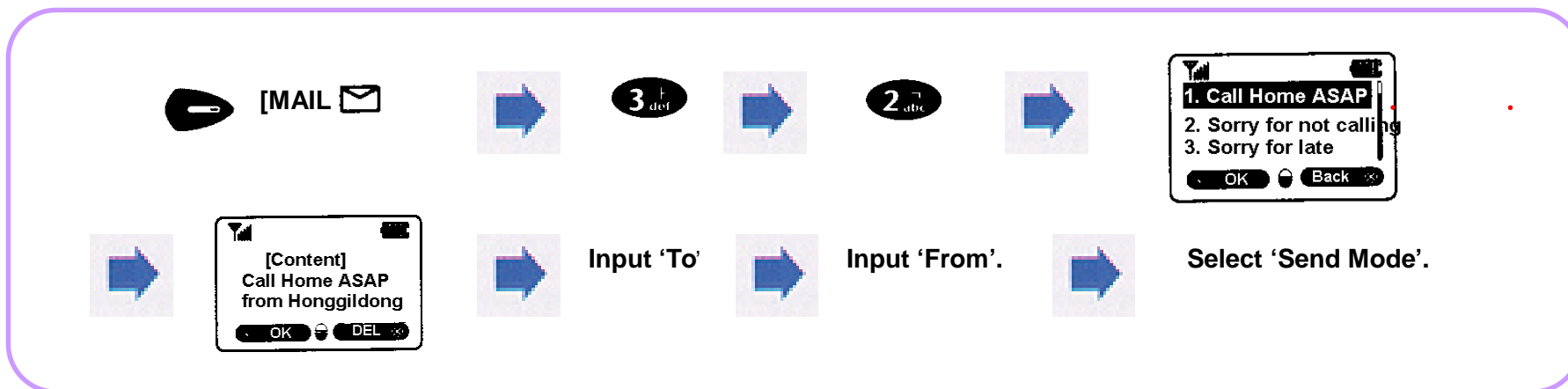
Sending a Message

Sending a New Message

[MAIL ✉] ➡ **3** ➡ **1** ➡ **Enter 'To'**

➡ **Input 'Content'.** ➡

```
Yₐₗₗ         ▨
     [Store Msg]
        Yes
        No
  OK    ⊖   Back  ⊗
```

➡

```
Yₐₗₗ         ▨
       [From]
   01X-000-0000
    OK    Back  ⊗
```

➡ **Select 'Send Mode'. (Normal/Fast/Urgent)**

Once a message is stored, when you want to send the same message,
you can select the stored message to send it without entering its content again.
Character input method: See p.82.

Sending a Stored Message

This feature is used to edit and send the existing text messages stored, or stored messages. Up to 10 messages can be stored.

[MAIL ✉] → 3 def → 2 abc → | ▮ 1. Call Home ASAP / 2. Sorry for not calling / 3. Sorry for late / OK Back |

→ | [Content] Call Home ASAP from Honggildong / OK DEL | → **Input 'To'** → **Input 'From'.** → **Select 'Send Mode'.**

If the message fails to be sent, 'Not Sent' is displayed and you are prompted whether
or not to send it again. If you want to re-send it, select a desired send mode and start re-sending.

After selecting a stored message,
if its content is displayed, select it.

Deleting a Message

[MAIL ✉ ➡ 4₅ ➡

```
Y.ll                    ▮▮▮
1. Text Msg
2. Broadcasting Msg
3. Stored Msg
  OK    ⊖   Back
```

 A message with 'Msg Lock' set up cannot be deleted even if 'Delete Msg' is selected.
 To delete a message with 'Msg Lock' set up, you should clear 'Msg Lock' first.

Clearing Message Lock

To clear Message Lock, press LOCK he screen after the message is displayed and then select 'No' from the Message Lock settings.
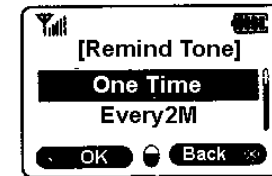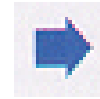
Answering Mode Setup

Remind Tone Setup

This feature is used to sound an alert to inform the user that a message has been received.

[MAIL ✉] ➡ 5 jkl ➡ 1 ➡

```
[Remind Tone]
One Time
Every2M
  OK    Back
```

Use ▲▼ or ⬍ to select
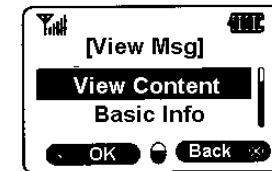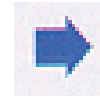a desired setting.
(OneTime/Every2M/Off)

Viewing a Message

This feature is used to specify the content to be displayed on the screen when a message is received.

[MAIL ✉] ➡ 5 jkl ➡ 2 abc ➡
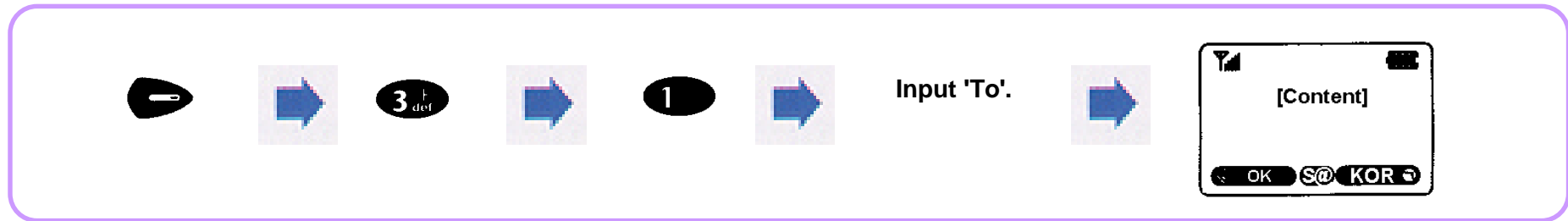
```
[View Msg]
View Content
Basic Info
  OK    Back
```

View Content: The content of a received message is displayed on the screen.
Basic Info: The kind of a received message and callback number are displayed.

Use ▲▼ or ⬍ to select
a desired setting.
(OneTime/Every2M/Off)

Entering Text

Korean, English(upper/lower cases), numbers, and symbolic characters are supported in Text Enter Mode.

Press ⬆ to ⬅ ct a kind of text to be inputted.

Entering Korean Letter

	Times of pressing				
	1	2	3	4	5
2	ㄱ	ㄴ	ㄲ		
3	ㅏ	ㅑ	ㅓ	ㅕ	
4	ㄷ	ㄹ	ㅁ	ㄸ	
5	ㅂ	ㅅ	ㅃ	ㅆ	
6	ㅗ	ㅛ	ㅜ	ㅠ	ㅡ
7	ㅇ	ㅈ	ㅊ	ㅉ	
8	ㅋ	ㅌ	ㅍ	ㅎ	
9	ㅣ	ㅐ	ㅔ	ㅒ	ㅖ

The first Korean consonant or vowel marked on each button represents the consonant or vowel starting with that sound.

In English Entering mode, press an appropriate 'DIAL' button as times as the sequence marked on it.
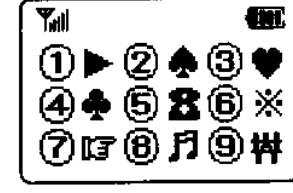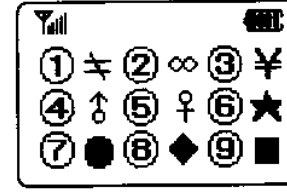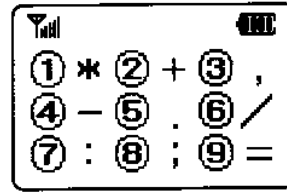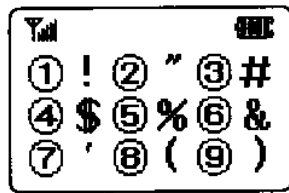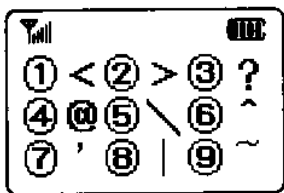
A : Press **2** ce.

B : Press **2** ce.

C : Press **2** ee times.

Entering Number

In Number Entering mode, press an appropriate 'DIAL' button.

Entering Symbolic Character

In Symbolic Character Entering mode, press an appropriate 'DIAL' button.

Supplemental Services

700 Service for Melody Download

Power Angel Service

Radio Data Communication Service

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700 Service for Melody Download

Power Melody Service   (Exclusively for 017 service subscribers)

- **Press** 7 ➔ 2 ➔ 3 ➔ 5 .

- **Select a desired melody as dictated by voice instructions, and it will be downloaded onto your phone automatically.**

- **Press** ● ➔ 2 ➔ 1 he downloaded melody. (Up to 3 melodies can be stored.)

My Bell Service   (Exclusively for 011 service subscribers)

- **Press 700-5782 ➔ SEND**

- **Select a desired melody as dictated by voice instructions, and it will be downloaded onto your phone automati** ● ➔ 2 ➔ 1

Power Angel Service   (Exclusively for 017 service subscribers)

If you have lost your phone or the base station intends to transmit an important message urgently to a subscriber, this service is actuated to display banner message on the user's phone. For details, contact your service provider.

Radio Data Communication Service

You can use such features as internet and various information search, E-mail transmission/reception, etc. even while moving around by connecting radio data connection cable between your phone and a notebook or PC without a modem separately.

To use radio data communication service:
- You should purchase data communication cable separately from the nearest Motorola dealer.
- For details of computer environment setup and other, refer to the User's Manual attached to the data communication cable.
- For other detail, contact your service provider.

Setting Serial Mode

- PIMs Mode: To use personal information management program, you should set up '2. PIMs Mode'.
- PIMs program is provided together with data cable when you buy it, or it can be downloaded from the Motorola Home Page.

To use data service, select '1. Data Mode'.

Setting Data Mode

(Exclusively for 011 service subscribers)
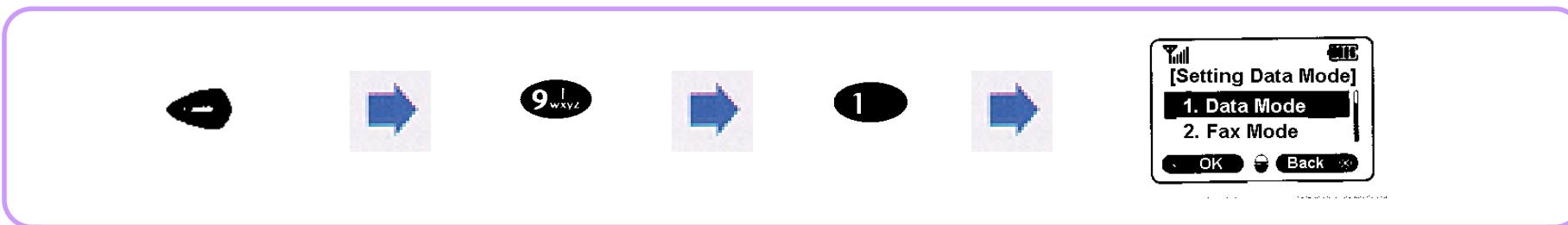
Press ⬆⬇ or ↕ to set
a desired mode.
(Data Mode/Fax Mode/Phone Mode)

Setting Data Rate

(Exclusively for 011 service subscribers)

• To use high-speed data service, you should set up '2. 115200'.

Appendix

PC sync using PIMs

How to Use Speaker phone

Separately Sold Items

Troubleshooting

Menu Status Table

PC sync using PIMs

PC sync is a feature to synchronize data such as telephone number, schedule, to-do list, and phone setting prepared on PC which is connected to the phone using a cable with the phone or to read the date from the phone to edit and store it. For details, refer to the Motorola PIMS program and User's Guide provided at purchase of data cable.

To use this feature, press

➊ ➔ ➒ ➔ ➊ ➔ ➋

to set 'PIMs Mode' in advance.
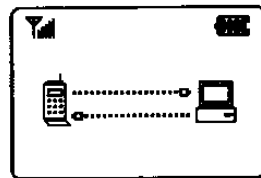
This screen informs you that PC sync is under way.

How to Use Speaker phone

This product has a build-in 'Speaker Phone' feature, which enables you to talk over the phone freely without nearing your ear to the phone. Pressing ( ) during standby or a call switches the phone to speaker mode or resets this mode.

Press and hold

Set to Speaker Phon Mode.

• Once speaker mode is set, is displayed on the initial screen.
• Once speaker mode is set, you can converse handsfree in a car or quiet

Separately Sold Items

Battery pack

Small-capacity   Standard type

Compact type vehicle handsfree

Vehicle power adapter

Data communication cable

Earpiece
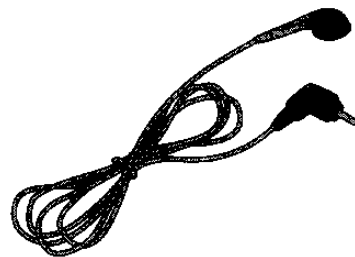
Portable battery changer

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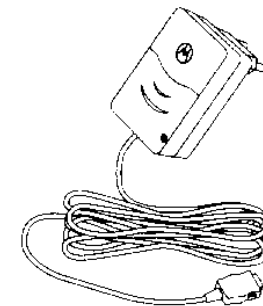
Troubleshooting

Nothing is displayed on the screen.

- Check the battery pack. (Discharged or connected wrong)

No antenna graphic is displayed on the screen.

- Move to other place and attempt a call again.

Alarms 'Toot-toot' are heard when call placed.

- There is no communication channel or difficulty in communicating with the base station.
  If you press [END/(1)] on to end the call and then press bu [SEND] again, the phone will redials up.
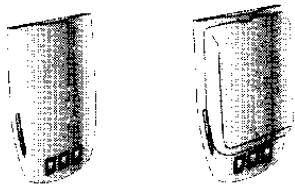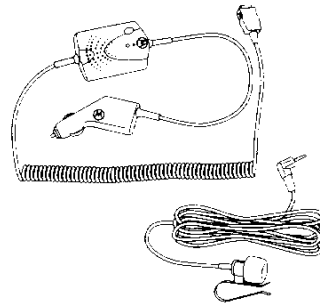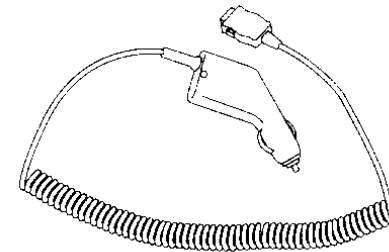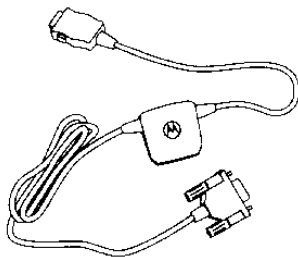
is displayed on the screen.

- The phone has been locked.
  Press your Lock Code to clear lock mode, and then use the phone again.

Charging lamp on the charger flashes in red.

- Check the position of the battery pack and then attempt a call again.
- Clean the terminals and attempt a call again.
- If the lamp keeps flashing in spite of several attempts, contact the nearest Motorola service center.

Battery pack operating time is different from the explanation in the User's Manual.

- If you repeat charging and discharging the battery pack continuously, its operating time becomes shorter gradually than when purchased.
- If the charged battery pack is exposed to low or high temperature, its operating time may vary.

Malfunctions arisen during using the phone or no power ON

- Disassemble the battery pack and reassemble it, and then turn the power ON.

Menu Status Table

MENU

1. Phone Book
- 1. Rcl by Sto
- 2. Rcl by Loc
- 3. Rcl by Name
- 4. Mem Status
- 5. CLI List
- 6. Unans List
- 0. View My Number

2. Ringer Tone Select Features
- 1. Bell/Melody
- 2. Ring/Vib Sel → Bell/Vib VibThenBell Lamp
- 3. Bell Volume
- 4. Earpiece Vol
- 5. Keypad Tone
- 6. ConnectTone
- 7. DTMF Tone

3. Alarm/Timer
- 1. Alarm
- 2. World Time
- 3. User Time
- 4. Individual
- 5. Cumulative
- 6. Roam Timer
- 7. Reset Timer
- 8. 1Min Timer

4. PIMs
- 1. Schedule
- 2. To Do List
- 3. Calculator
- 4. Calendar

5. Phone Option
- 1. Light Color → Green/Orange/ Red/Blue/Azure/ Yellow/ White
- 2. Backlit Select → 5Sec/ FlipOpen /Off
- 3. ChangeBanner
- 4. Auto Area Code
- 5. Int'l Call No
- 6. Auto Hyphen
- 7. Auto Redial
- 8. AutoAnswer
- 9. PwrUpBanner → Motorola/ Brand/ Operator

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6. Lock/Secure

- 1. Lock Mode
- 2. Emergency
- 3. ChangeLockCode
- 4. Clear List
- 5. Call Restrict
- 6. Master Reset
- 7. Change NAM
- 8. Key Lock
- S/W Version

1.Phone Book
2.Last10Called
3.CLI List
4.UnansList
5.Schedule
6.To Do List

1.Int'l Call
2.700
3.Memory

7. Game

- 1. Battle Race
- 2. Poker

8. Voice Dial

- 1. Storing
- 2. Stored List
- 3. AutoDialing
- 4. Clear All

9. Data Service

- 1. Serial Mode
- 2. Data Mode
- 3. Data Rate

Menu exclusively for 011 service

1.Data Mode
2.PIMs Mode

1.Data Mode
2.Fax Mode
3.Phone Mode

1. 19200
2. 115200

Message Menu

0.n-TOP

- 1. Voice Message
- 2. Text Message
- 3. Send Message
- 4. Delete Message
- 5. Answering Mode Setup

Menu for Call

- 1. Phone Book
- 2. Send My Number

Menu for Voice Recording

- 1. Play
- 2. Clear All

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Short Key for Foreigners

Function	Short Cut
Lock	Press & hold ◄ ✳ 🔒
Vibration	Press & hold 🔊 # ►
Voice dialing	Press & hold CLR
Voice memo	Press & hold 🔲
International call number display	Press & hold 0 +
n-TOP access	Press & hold ⛰
i-touch/ i-station access	Press & hold ⛰
Last 10 calls	Press ▽
Speaker phone mode	Press & hold ▽