SONY

3-xxx-xxx-11 (1)

Portable PCS Telephone

Operating Instructions

CM-Z100SPR

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Before operating the CM-Z100SPR portable telephone, please read this manual thoroughly and retain it for future reference.

If your usage includes in-vehicle operation, it is recommended that you refer to the Installation/Connections/Operation manual for the optional accessory kits.

DISPOSAL OF LITHIUM ION BATTERY

LITHIUM ION BATTERY.
DISPOSE OF PROPERLY.

You can return your unwanted lithium ion batteries to your nearest Sony Service Center or Factory Service Center.

Note: In some areas the disposal of lithium ion batteries in household or business trash may be prohibited.

For the Sony Service Center nearest you call 1-800-222-SONY (United States only).
For the Sony Factory Service Center nearest you call 416-499-SONY (Canada only).

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

FCC CAUTION STATEMENT

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Owner's record

The model number, regulatory number, and serial number are located on a nameplate inside the battery compartment. Record the serial number in the space provided below. Refer to these numbers whenever you call your dealer regarding this product.

Model No.: CM-Z100SPR Serial No.: _____

DIGITAL BY QUALCOMM.

"Digital by QUALCOMM" is a registered trademark of QUALCOMM Incorporated.

Rules and regulations

The U.S. Federal Communications Commission and the Industry Canada regulate PCS telephone service in their respective countries. It is important for you, the PCS telephone user, to observe the applicable regulations when operating your PCS telephone in either country. In addition to these U.S. and Canadian federal regulations, you may be bound also by certain state, provincial, territorial, and local rules and regulations, as well as by your PCS carrier's tariff (the rates, terms, and conditions of its service). If you wish to use your PCS telephone in both the U.S. and Canada, please consult with your System Operator.

Furthermore, you should remember that your PCS telephone is a *radiotelephone*, — i.e., it combines both wireline technology, as used in your home or office telephone system, *and* radio technology — and that the scope of regulations and precautions is therefore broader than the scope of regulations and precautions relating to wireline-only telephone usage.

Some of the major points of consideration are set out below. Please note, however, that these "Rules and Regulations" and "Safety Precautions" sections do not constitute legal advice; and are intended merely for general information purposes. If you have any specific questions, please contact your PCS carrier (System Operator).

License — If your home system is in the U.S., you do not require a separate license to operate your PCS telephone; obtaining a PCS telephone access number is sufficient to register you as a user. If your home system is in Canada, a separate license is required; your carrier will assist you in the licensing process. If you wish to use your PCS telephone on both sides of the border, please contact your PCS carrier (System Operator).

Equipment modifications — The U.S. Federal Communications Commission has type-approved the model of PCS telephone which you have purchased, and has allocated a specific frequency range for PCS service. No changes or adjustments are to be made to your PCS telephone.

The radio equipment shall be made available for inspection upon request by representatives of the FCC or licensees.

Denial of service — A PCS carrier may deny service temporarily or terminate service for violation of any government regulations or violation of its tariff.

Privacy — As a telephone user, you have come to assume a certain standard of privacy when you place or receive a telephone call via the traditional wireline systems. However, because PCS telephones utilize radio transmissions to effect calls, the same standard cannot always be assured. While it is unlawful for any unauthorized person to divulge or use any information obtained from intercepting or "listening in on" conversations intended for others, you should not assume that your conversation is completely secure. Commercially available scanning equipment can permit a third party to monitor the radio channels used for PCS telephone calls.

Interference — No person shall interfere with, or cause interference to, any radio communication or signal.

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Safety precautions

IMPORTANT

For safe and efficient operation of your phone, observe these guidelines.

Your hand-held portable PCS telephone uses digital Code Division Multiple Access (CDMA) technology. CDMA is a newer radio frequency (RF) technology than the FM technology that has been used for radio communications for decades.

Your portable PCS telephone is a radio transmitter and receiver. When the phone is ON, it receives and sends out radio frequency (RF) energy. The phone operates in the frequency range of 1851 MHz to 1989 MHz. When you use your phone, the PCS system handling your call controls the mode of operation and the power level at which your phone transmits. The power is transmitted as a digitally coded waveform at a rate varying from 100 Hz to 800 Hz. The average power can range from about 0.01 µW to about 300 mW.

Exposure to radio frequency energy

Research on health effects from RF energy has focused for many years on FM radio technology. That research and studies regarding newer radio technologies, such as CDMA, have found no credible scientific evidence that adverse health effects result from the use of PCS telephones.

The Institute of Electrical and Electronics Engineers (IEEE) in 1991, and The American National Standards Institute (ANSI) in 1992, updated the 1982 ANSI Standard for safety levels with respect to human exposure to RF energy. Over 120 scientists, engineers, and physicians from universities, government health agencies, and industry, reviewed the available research and developed this updated Standard. In March 1993, the U.S. Federal Communications Commission (FCC) proposed the adoption of this updated Standard.

The design of your phone complies with this updated Standard. Of course, if you want to limit RF exposure even further than the updated ANSI Standard, you may choose to control the duration of your calls and operate your phone in the most power efficient manner.

Efficient phone operation

For your phone to operate at the lowest power level consistent with satisfactory call quality, please observe the following guidelines:

Your phone has an extendable anenna; extend it fully whenever possible for maximum efficiency.

Hold the phone as you would any other telephone. While speaking directly into the mouthpiece, position the antenna up and over your shoulder.

Do not hold the antenna when the phone is in use. Holding the antenna affects call quality and may cause the phone to operate at a higher power level than needed.

Antenna care and replacement

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Replace a damaged antenna immediately. Take your phone to an authorized service center for repair.

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Use only the supplied or approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, and violate FCC regulations.

Driving

Check the laws and regulations on the use of PCS telephones in the areas where you drive. Always obey them. Also, when using your phone while driving, please:

- pay full attention to driving;
- use hands-free 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 energy. However, RF energy from PCS telephones may affect some electronic equipment.

RF energy may affect improperly installed or inadequately shielded electronic operating and entertainment systems in motor vehicles. Check with the manufacturer or its representative to determine if these systems are adequately shielded from external RF energy. You should also check with the manufacturer of any equipment that has been added to your vehicle.

Medical devices

Consult the manufacturer of any personal medical devices (such as pacemakers, hearing aids, etc.) to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

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

Aircraft

Turn your phone OFF before boarding any aircraft.

- Use it on the ground only with crew permission.
- Do not use in the air.

To prevent possible interference with aircraft systems, U.S. Federal Aviation Administration (FAA) regulations require you to have permission from a crew member to use your phone while the plane is on the ground. To prevent interference with PCS systems, FCC regulations prohibit using your phone while the plane is in the air.

Children

Do not allow children to play with your phone. It is not a toy. Children could hurt themselves or others (by poking themselves or others in the eye with the antenna, for example). Children also could damage the phone or make calls that increase your telephone bills.

Blasting areas

To avoid interfering with blasting operations, turn your unit OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Construction crews often use remote control RF devices to set off explosives.

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Potentially explosive atmospheres

Turn your phone OFF when in any area with a potentially explosive atmosphere. It is rare, but your phone or its accessories could generate sparks. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

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

Do not transport or store flammable gas, liquid, or explosives in the compartment of your vehicle which contains your phone or accessories.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269, Attn: Publication Sales Division.

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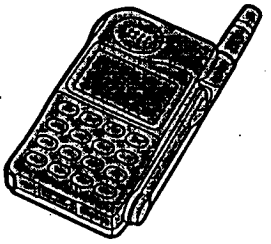
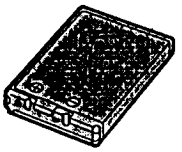
Unpacking your phone

Carefully unpack your phone and check the contents using this list.
If there is something missing, please contact your nearest Sony dealer.

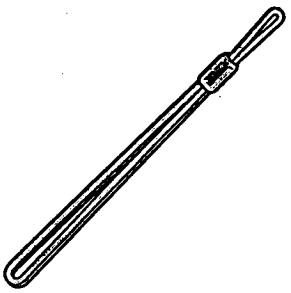
CM-Z100SPR Portable PCS Telephone (1)



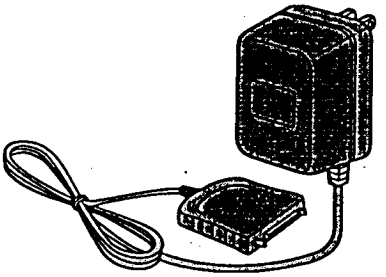
QN-029BPLH Hi-Capacity Li-Ion Battery (1)



Hand Strap (1)

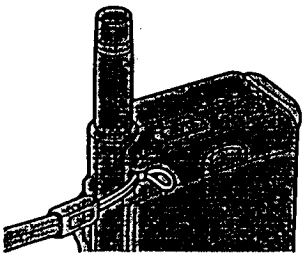


QN-001AC AC Adapter (1)

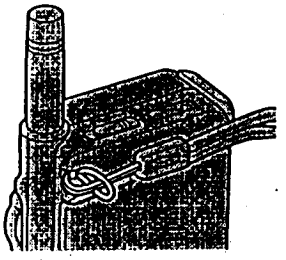


Attaching the hand strap

1



2



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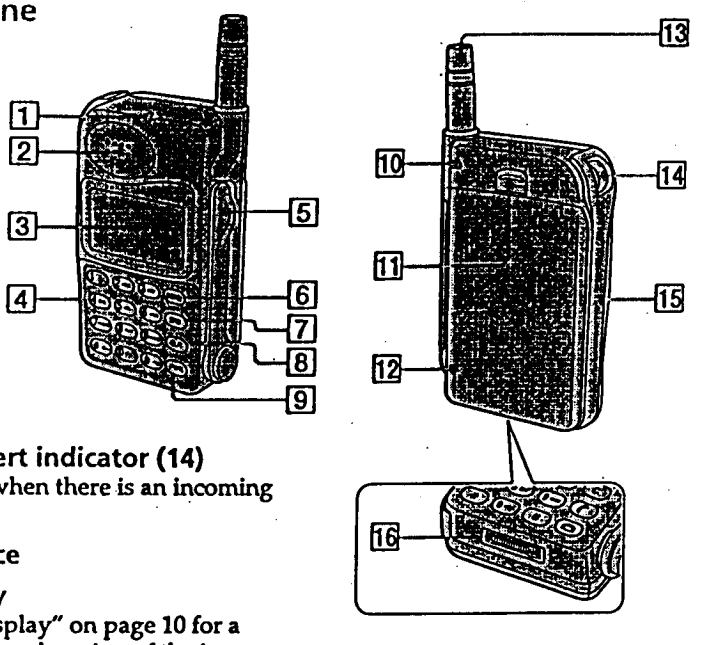
Looking at your phone

For further information, refer to the page numbers indicated in parentheses ( ).

Telephone



1 Call alert indicator (14)
Lights when there is an incoming call.

2 Earpiece

3 Display
See "Display" on page 10 for a general explanation of the items that appear on the display.

4 Number buttons, 0 to 9, and (*←)/(#→) buttons (16, 20)
Use the number buttons to enter letters and numbers. Press and hold a number button, 0 to 9, for touch dialing (see page 27). Use the (*←)/(#→) buttons to move the cursor when you are entering letters.

5 Arm microphone
Open to make/receive a call.
Close to end a call.

6 (TALK) button (16 to 20)
Press to make outgoing calls and to receive incoming calls when the arm microphone is open.

7 (END) button (16, 18, 19)
Press to end calls. Also cancels operations and returns the phone to standby mode.

8 (CLR) (clear) button (20)
Press to clear the last or all entered digits on the display, or to exit the current mode of operation.

9 (PWR) (power) button (14)
Press to turn the phone on or off.

10 Hand strap attachment (8)

11 Battery cover release tab (11)
Slide up to remove the battery cover.

12 Battery cover (11)

13 Antenna (14)

14 Jog Dial™ navigator (15)
Push and turn for menu navigation and for changing settings on menus. In this manual, the ↻ icon indicates that you should push the Jog Dial™ navigator in towards the center of the phone.

15 Ringer (44)

16 Connector (12)
Use to connect the phone to either the AC adapter, a cigarette lighter adapter, a desktop charger, or a hands-free car kit.

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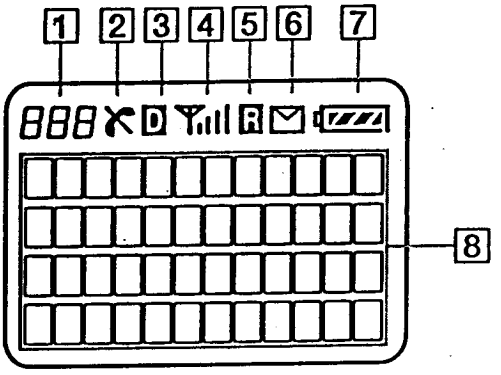
Display

The top row of the display contains icons that inform you of the current status of your phone. The bottom four rows of the display are for text such as phone numbers, names, and operational prompts. Each row displays a maximum of 12 characters.



1 Short character display
Shows settings such as the number of the currently displayed Features menu, as well as Phone Book and Calls List memory locations.

2 (in-use) / (out-of-service) icon (14, 16, 18)
The in-use icon appears during a call. A slash through the in-use icon appears when no signal is received. You cannot make or receive calls when the out-of-service icon is visible.

3 D (digital) icon
Appears when your phone is receiving a signal.

4 (signal strength) icon (14)
Tells you the approximate strength of the signal being received.

5 R (roam) icon (68)
Appears when you are roaming outside your home service area.

6 (message) icon (36)
Appears when you have new text or voice mail messages pending. The icon flashes if the new message is urgent.

7 (battery) icon (12, 13)
Shows the approximate amount of charge power remaining in the battery. Recharge the battery before it is fully discharged.

8 Character display
Prompts various actions, and then displays the results. It also shows phone numbers and names.

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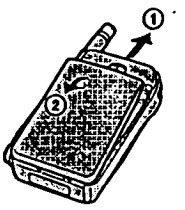
Charging the battery

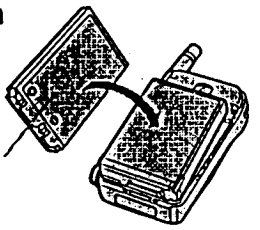
Make sure to charge the battery before using the phone. To charge the battery, attach the battery to the handset, then connect the supplied AC adapter.

Inserting the battery

1 Slide up the battery cover release tab ① and remove the cover ②.



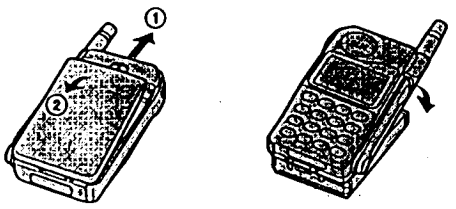
2 Align the battery terminals with those on the phone and insert the battery.
Make sure the battery is inserted with the ⊕ ⊖ facing down.



3 Align the tabs at the bottom of the cover with the tabs in the phone ① and push the cover until it clicks ②.

To remove the battery

Open the cover and tap the phone lightly to remove the battery.



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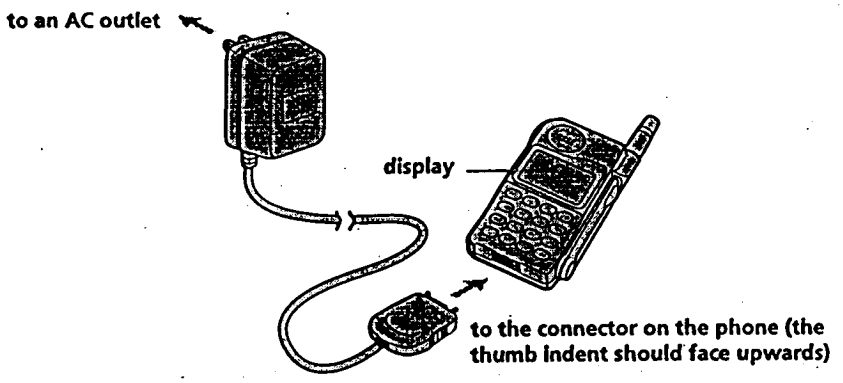
Charging the battery

Connect the AC adapter to the phone and the other end to a standard 120V AC outlet as illustrated below. The charging time is about 3 hours.
In addition, you can charge the battery with the phone turned on. Charging will take longer with the phone turned on.



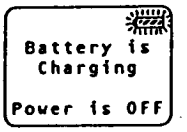
When the power is turned on

As the battery charges, the battery icon ( ) indicates the power status. The blocks in the battery icon gradually stop flashing. This indicates the level of power restoration.

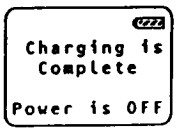
When all of the blocks in the battery icon have stopped flashing, the battery is fully charged.

When the power is turned off

The message "Battery is Charging" is displayed, and flashes.



When the battery is fully charged, the message "Charging is Complete" is displayed, and stops flashing.



Notes

- If you make or receive a call when the battery is not charged sufficiently, the call will be cut off. In that case, you will hear an alarm, indicating that the battery is low.
- You can turn on the phone without the battery, but you cannot make or receive a call, even if you connect the AC adapter to an AC outlet.

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Notes on charging

- When you charge the battery, avoid:
  - charging in temperatures below 32°F (0°C) or over 104°F (40°C).
  - charging the battery in direct sunlight or in places with high humidity (such as a bathroom).
- Do not use any battery other than the one specified in these instructions.
- It is normal for the battery to become warm during charging or after use.
- The supplied AC adapter is not intended to be serviced. In the event of a malfunction, it should be replaced.

Notes on the battery

- Do not try to disassemble the battery.
- Do not expose battery to high temperatures or fire.
- Never short circuit the battery. Do not allow battery contacts to touch metal materials.

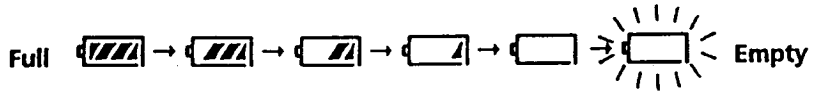
Checking the battery

Battery duration

In standby mode, the battery lasts approximately 20 hours. When used continuously, it lasts approximately 2 hours.

Battery condition

The battery icon indicates the battery level as follows (when the power is on):



Note that the battery icon displays the approximate charge level and that the consumption may differ depending on conditions of use, such as ambient temperature, network coverage, and usage patterns.

When the battery is empty

The battery icon flashes. A beep sounds, indicating that the battery is low. Shortly thereafter, the phone turns off. Make sure to recharge the battery as soon as possible.

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Turning the phone on

To use your phone, the power must be turned on. It is preferable to extend the antenna, as this maximizes signal strength and minimizes interference.

Extending the antenna

Hold the end of the antenna and pull up until fully extended.

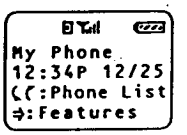
To retract the antenna

Push the antenna down until it is fully retracted.

Turning the power on

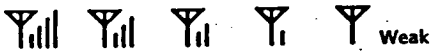
Hold down (PWR) for about one second. The call alert indicator lights up, the phone beeps (if keybeep volume is not turned off), and the phone starts searching for a signal.

When the phone has found a service signal, the standby display appears and the call alert indicator goes off. Now the phone is ready to use.



To check the signal strength

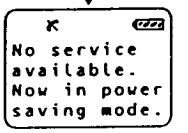
The signal strength icon indicates various levels of signal strength. It is best to make calls when the signal is strong, although calls can be made when the signal strength is weak.

Strong  Weak

If you are out of the service area

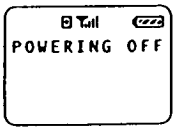
The out-of-service icon (✕) appears, and the phone searches for a service signal.

If a signal cannot be found, the phone enters power save mode. It will "wake up" automatically at intervals (based on carrier network settings) to search for a service signal.



Turning the power off

Hold down (PWR) for about one second. The following display appears briefly, then the phone turns off.



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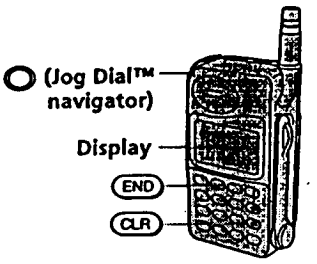
Using the Jog Dial™ navigator

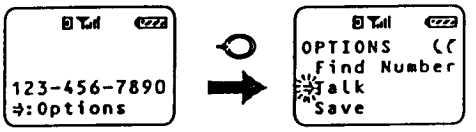
The Jog Dial™ navigator makes it easy to navigate from one menu to another.



Choosing a menu item

To choose a menu item, push the Jog Dial™ navigator. The flashing arrow (⇒) on the display indicates the item you can select by pushing ⟲. If you push ⟲ on the standby display, for example, you will go to the Features menu. If you push ⟲ again, you will go to the Message menu.

If you enter digits on the standby display, the word "Options" appears at the bottom of the display, preceded by ⇒. Push ⟲ to access the Options menu.

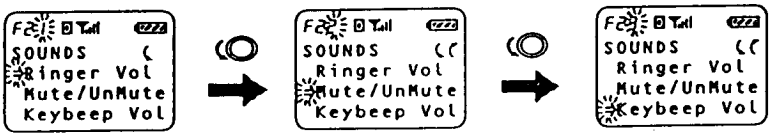


To go back

If you want to go back to the previous display, press CLR. If you want to return to the standby display, either press END or hold down CLR.

Scrolling through menu items

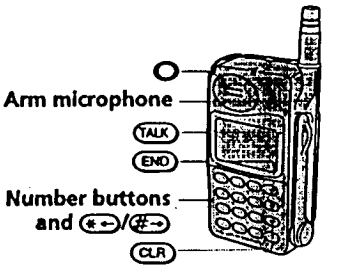
To scroll through menu items, turn the Jog Dial™ navigator when the ⟲ icon appears. The up (ᐸ) and down (ᐳ) arrows on the display indicate the available scrollable direction. For example, if you turn ⟲ within the Sounds menu, you will scroll through the submenu items.



On the leftmost display, ᐸ is not shown. This indicates that you cannot scroll up.

Making calls

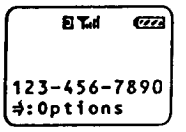
You can call any number up to 32 digits from within a service area. The out-of-service icon (✕) indicates that you are outside the service area.



In this example, the phone number to be called is 123-456-7890.

1 Use the number buttons and ✱←/#→ to enter the number.

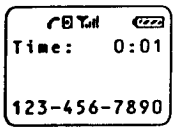
The following display appears. If you enter the wrong digit, press CLR to back up. To clear all entered digits, press END or hold down CLR to return to the standby display.



2 If the arm microphone is closed, open it to dial. If the arm microphone is open, press TALK to dial.

The phone dials the number you have entered. The ✆ icon appears.

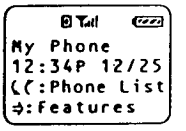
When the call is connected, the call timer appears and displays the elapsed time.



4 Press END or close the arm microphone to end the call when you are finished.

The ✆ icon disappears and the final elapsed call time flashes for 10 seconds.

The standby display automatically reappears.



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Tips

- When dialing, you can insert a pause to attach a DTMF (Dual Tone Multiple Frequency) number to the number you are calling (see page 33 for a description of DTMF).
- If Auto-Hyphen is turned on, the phone number is hyphenated automatically as you enter the digits (see page 65).
- If Minute Alert is turned on, a beep sounds 10 seconds before every full minute throughout the call (see page 50).
- Enhanced voice privacy is indicated by the message "–P–" displayed in the upper left corner of the LCD (see page 70). This feature is carrier-dependent.

To adjust the earpiece volume during a call

Turn ◯ up to increase the volume.
Turn ◯ down to decrease the volume.

Tip

In addition, you can adjust the volume using the Sounds menu (see page 44).

To mute/unmute the microphone during a call

Push and hold ◯.

Tip

In addition, you can mute the microphone using the Sounds menu (see page 45).

To redial the last number

On the standby display, press TALK when the arm microphone is open. Then press TALK again and the number you dialed last is redialed automatically.

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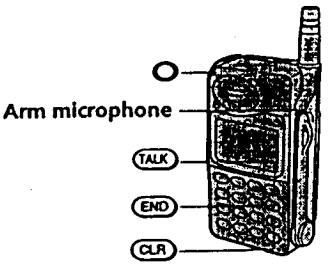
Receiving calls

You can receive calls as long as the out-of-service icon (✕) is not displayed. The ✕ icon indicates that you are outside the service area.



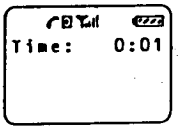
When you receive a call, the ringer sounds or the phone vibrates. "Incoming Call" flashes, and the call alert indicator lights.

Note

If you turn off the ringer volume (see page 44), you will not hear the ringer sound. The message "–Ringer Off–" is displayed on the standby display.

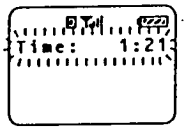
1 If the arm microphone is closed, open it. If the arm microphone is open, press TALK to answer the call.

When the call is connected, the call timer appears and displays the elapsed time.



2 Press END or close the arm microphone to end the call when you are finished.

The ✆ icon disappears, and the final elapsed call time flashes for 10 seconds.



The standby display automatically reappears.

Tips

- Using the Jog Dial™ navigator, you can adjust the earpiece volume or mute the microphone during a call (see page 44).
- Enhanced voice privacy is indicated by the message "–P–" displayed in the upper left corner of the LCD (see page 70). This feature is carrier-dependent.

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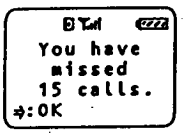
If the caller has caller ID

The caller's phone number appears on the display when you receive a call if both the caller and the carrier support this feature.

If the caller has caller ID and the number matches a Phone Book entry, the name that you stored with the number (if any) is displayed also.

If you miss a call

If you miss an incoming call, a message appears similar to the following display. To return to the standby display, either press (CLR), (END), or -O. If the caller had caller ID, the caller's number is stored in the Calls List (see page 31).



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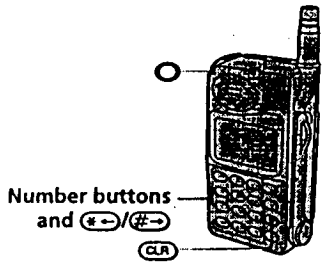
Storing phone numbers in the Phone Book

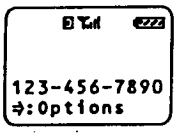
Your phone features a built-in Phone Book memory, in which you can store up to 99 (01–99) phone numbers with names. You can dial stored numbers quickly by recalling them from the Phone Book (see page 26).
Each phone number can contain up to 32 digits, and each name up to 12 characters. This section shows how to store, edit, and erase Phone Book numbers quickly.



In this example, the phone number to be stored is 123-456-7890, and the name is SONY.

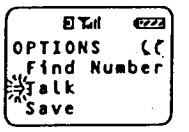
1 On the standby display, use the number buttons and #/* to enter the number.

The number appears on the display.
In addition, you can store hyphens, pauses, and links with your Phone Book entries (see page 22).



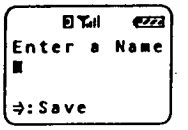
2 Push ○.

The Options menu appears.



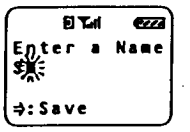
3 Turn ○ to select "Save," then push ○.

The following display appears, prompting you for a name to accompany the number.



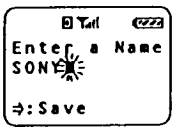
4 Use the number buttons to enter the name.

If you press the same button in quick succession, the letter you just entered changes. (See the "Alphanumeric table" on page 21.) For the next entry, wait until the cursor moves one step to the right or use #/* or Jog Dial™ navigator to move the cursor. Use #/* to insert spaces between characters. If you enter the wrong character, press CLR to clear the character highlighted by the cursor.



To enter "SONY"

Press 7 four times to enter an "S."
Press 6 three times to enter an "O." Wait until the cursor moves one step to the right for the next entry.
Press 6 twice to enter an "N."
Press 9 three times to enter a "Y."



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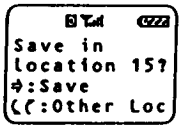
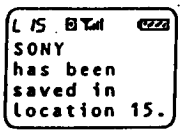
5 When you are finished, push ◯ to store the phone number and name.

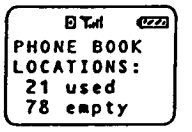
A display appears similar to the following, indicating the first available memory location.



6 Push ◯ to store the new number in the first available memory location.

If you want to store it in another location, turn ◯ to select the desired location or enter the location number, then push ◯. A confirmation message appears, followed by the status of the Phone Book.





Tip

In addition, you can use the Directory menu to store Phone Book numbers (see page 50).

Alphanumeric table

Each time you press a number button, it cycles through the letters as follows:

Button	Sequence
1	- " . ' , & ( ) : 1
2 ABC	A B C a b c 2
3 DEF	D E F d e f 3
4 GHI	G H I g h i 4
5 JKL	J K L j k l 5
6 MNO	M N O m n o 6
7 PQRS	P Q R S p q r s 7
8 TUV	T U V t u v 8
9 WXYZ	W X Y Z w x y z 9
0 OPER	0

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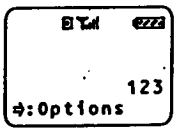
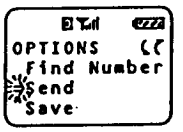
To enter a hyphen, pause, or link

You can enter hyphens, pauses, or links, as well as digits into a number entry. When you store a foreign number, turn off the phone's autohyphenation feature. If you enter a hyphen manually, autohyphenation will turn off for that number. Pauses are helpful when you want to send DTMF signals (see page 33). Use links when you want to join and dial two or more Phone Book entries. After inserting a link, enter the number of the memory location that you want to attach.

1 While entering digits, push ⊙.
The Options menu appears.



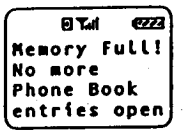
2 Turn ⊙ to select which information to enter, then push ⊙.
After inserting a hyphen, pause, or link, the display returns to number entry mode.



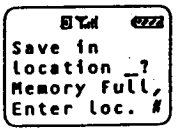
To enter	Select	The display shows
a hyphen	Enter Hyphen	-
a hard pause	Hard Pause	H
a time pause	Time Pause	T
a link	Enter Link	L

If the Phone Book is full

If there are no memory locations available, the following display appears.



After entering a name, the following display appears, prompting you to specify a memory slot to overwrite.
To cancel, hold down CLR.



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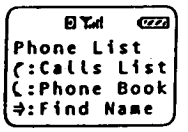
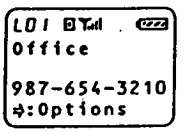
Editing stored information

You can edit the name, phone number, and memory location of specific entries stored in the Phone Book.

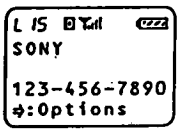
1 On the standby display, turn ◎ once.
The Phone List display appears.



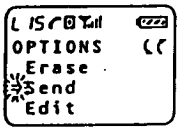
2 Turn ◎ down to select "Phone Book."
The first entry in the Phone Book appears.



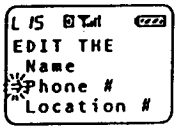
3 Turn ◎ to select the entry that contains the information you want to edit.
The contents of the selected memory location are displayed.



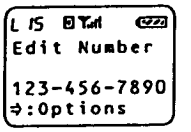
4 Push ◎.
The Options menu appears.



5 Turn ◎ to select "Edit," then push ◎.
The Edit menu appears.

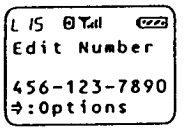


6 Turn ◎ to select the item you want to edit, then push ◎.
The stored information that corresponds to the selected item appears.



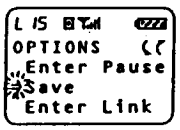
To change	Select
the name	Name
the phone number	Phone#
the memory location	Location#

7 Enter the new information.
Enter new information the same way you stored original information (see page 20). The old information is overwritten.



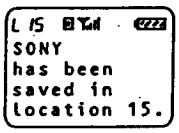
8 When you are finished, push ⊙.

The Options menu reappears when you edit the name, phone number, or the memory location. New information is saved immediately.



9 Turn ⊙ to select "Save," then push ⊙.

A display appears similar to the following, confirming that your changes have been saved.



Tip

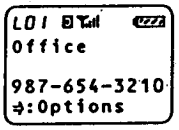
In addition, you can use the Directory menu to edit Phone Book numbers (see page 52).

Erasing a phone number

You can erase stored Phone Book entries. If the selected entry is restricted, you must enter the four-digit lock code before you can erase it (see page 60).

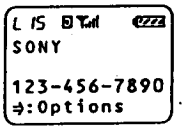
1 On the standby display, turn ⊙ down twice to select "Phone Book."

The first Phone Book entry is displayed.



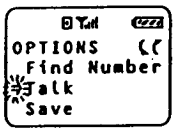
2 Turn ⊙ to find the Phone Book entry you want to erase.

The contents of the selected memory location are displayed.



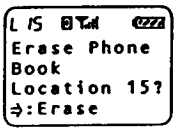
3 Push ⊙.

The Options menu appears.



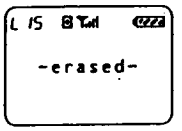
4 Turn ⊙ to select "Erase," then push ⊙.

A display appears similar to the following, prompting you to confirm the erasure.



5 Push ⊙ again.

The selected entry is erased. After a few seconds, the standby display reappears.



Tips

- You also can use the Directory menu to erase one Phone Book entry at a time (see page 51).
- Use the Security menu to erase all Phone Book entries at once (see page 62).

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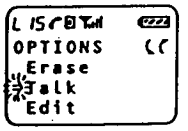
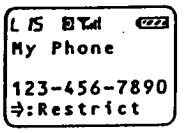
Restricting Phone Book entries

You can restrict individual Phone Book entries or the entire Phone Book so that access can be gained only by entering a lock code (see page 60). The phone numbers of restricted entries will not be displayed.

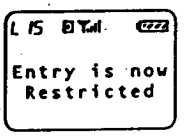
1 Select the Phone Book entry that you want to restrict, then push ◯.
The Options menu appears.



2 Turn ◯ to select "Restriction," then push ◯.
A display similar to the following appears.

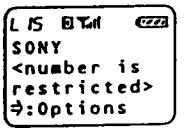


3 Push ◯ to restrict the selected entry.
Now the selected entry is restricted. After a few seconds, the standby display reappears.

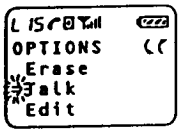


To unrestrict an entry

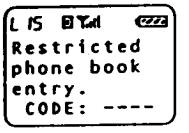
1 Select the Phone Book entry that you want to unrestrict.
The following display indicates a restricted entry.



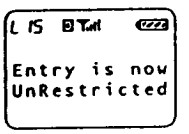
2 Push ◯.
The Options menu appears.



3 Turn ◯ to select "Restriction," then push ◯.
The following display appears, prompting you to enter the lock code.



4 Use the number buttons to enter the lock code.
Now the selected entry is unrestricted. After a few seconds, the standby display reappears.



Tip
You also can use the Security menu to restrict/unrestrict Phone Book entries (see page 61).

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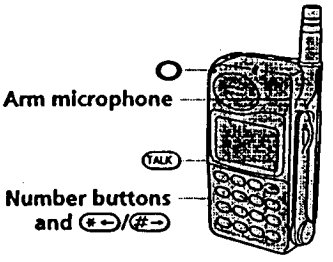
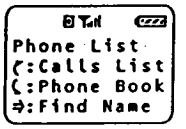
Calling from the Phone Book

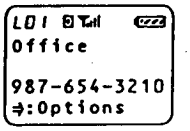
You can dial frequently used numbers quickly from the Phone Book using the Jog Dial™ navigator. Alternatively, by using speed/touch dialing, you only need to press a few buttons to dial these numbers.



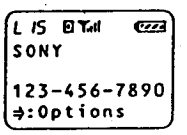
1 On the standby display, turn ◎ once.
The Phone List display appears.



2 Turn ◎ down to select "Phone Book."
The first entry in the Phone Book appears.

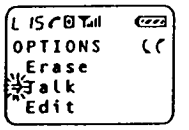


3 Turn ◎ to select the desired Phone Book entry.
The contents of the selected entry are displayed.



4 Open the arm microphone if it is closed.

If the arm microphone is open, push ◎ to see the Options menu.



Push ◎ again to make a call.
The phone dials the number stored in the selected Phone Book entry. The ✆ icon appears.

Tips

- You can search for a phone number by name or memory location (see pages 28-30).
- Whenever the phone number is displayed, you can call it by pushing ◎ or (TALK) or by opening the arm microphone.
- If the phone number of a selected Phone Book entry is too long to fit on the screen, you can still view the overflow digits by selecting "View Number" on the Options menu.

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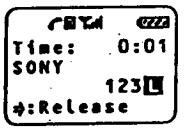
To release a pause or link during a call

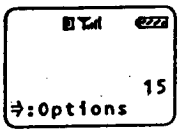


If a Phone Book entry contains hard pauses or links, only the digits up to the first hard pause or link are displayed. To dial the rest of the selected entry (and release the pause or link), push ◯. For a time pause, wait two seconds. The phone dials the rest of the entry automatically.

Speed dialing

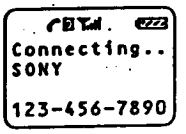
To dial quickly, you can enter the Phone Book memory location numbers. The phone calls the number stored in the corresponding location.

1 Use the number buttons to enter the memory location number.



2 To dial the number, open the arm microphone. If the arm microphone is already open, press (TALK).

The name and memory location number appear. The phone dials the number stored in the entered memory location.



Note

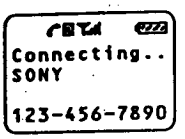
You cannot use speed dialing to call the phone number in location 1. If the arm microphone is open and you press (1), then (TALK), the phone dials voice mail center.

Touch dialing

You can dial a phone number stored in the Phone Book without pressing (TALK). Before using this feature, make sure that Touch Dial on the Extras menu is set to "on" (see page 57).

1 Use the number buttons to enter the memory location number, and hold down the last digit of the memory location number for about two seconds when the arm microphone is already open.

The name and number of the memory location appear. The phone dials the number stored in the entered memory location.



Note

You cannot use touch dialing to call the phone number in location 1. If the arm microphone is open and you press (1), then (TALK), the phone dials voice mail center.

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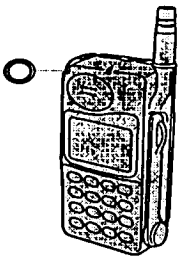
Searching the Phone Book

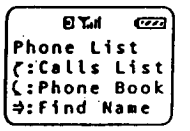
To locate a desired Phone Book entry, you can search by name, phone number, or memory location. You can search the Phone Book either alphabetically or for a string of characters.



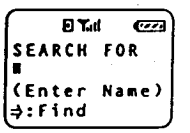
Searching alphabetically

When you enter only one character, the phone lists all entries that begin with the entered character.

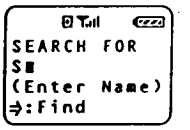
1 From the standby display, turn ◯ once.
The Phone List display appears.



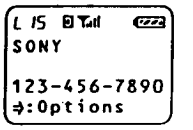
2 Push ◯.
The Search display appears.



3 Enter only one character.



4 Push ◯.
All Phone Book entries display alphabetically that begin with the entered character.



5 Turn ◯ to view the next entry.

Tip
In addition, you can use the Directory menu to search the Phone Book by name (see page 53).

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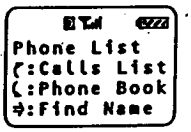
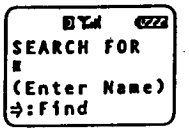
Searching for a string of characters

When you enter two or more characters, the phone searches for entries that contain those characters. The results are listed starting from the lowest memory location number.

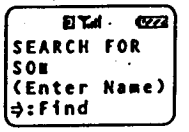
1 From the standby display, turn ◎ once.
The Phone List display appears.



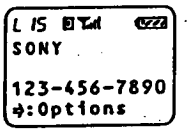
2 Push ◎.
The Search display appears.



3 Enter at least two characters.



4 Push ◎.
The entries containing the selected string are listed starting from the lowest memory location number.
Turn ◎ to view the next search string entry.



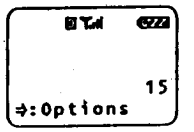
Note

If the search string does not contain punctuation or a space, the phone scans only the first characters of the words in the matching entries.

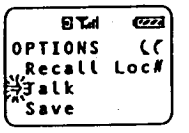
Searching by memory location

The phone searches for a memory location that matches the entered digit(s), and displays a list of options.

1 On the standby display, enter the memory location (a maximum of two digits).

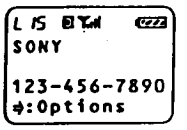


2 Push ◎.
The Options menu appears.

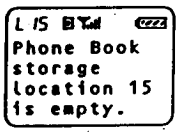


3 Turn ◯ up to select "Recall Loc#," then push ◯.

The Phone Book entry stored in the selected memory location is displayed.



If the entered location is empty, a message similar to the following appears. After a few seconds, the standby display reappears.



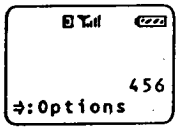
Tip

In addition, you can use the Directory menu to search the Phone Book by memory location (see page 54).

Searching for a phone number

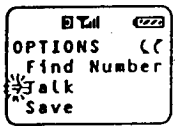
The phone lists all entries that contain the entered digit(s).

1 On the standby display, enter at least three digits.



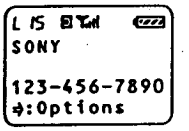
2 Push ◯.

The Options menu appears.



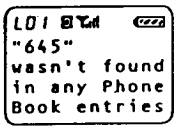
3 Turn ◯ up to select "Find Number," then push ◯.

The Phone Book lists and displays all entries matching the entered digits. Depending on the Sort Book setting (see page 66), the entries are listed either alphabetically or by memory location.



4 Turn ◯ to view the next entry that contains the search string.

If a matching Phone Book entry is not found, a message similar to the following is displayed. After a few seconds, the standby display reappears.



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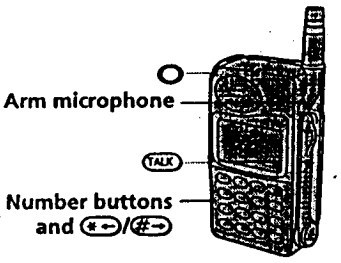
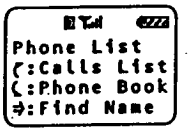
Calling from the Calls List

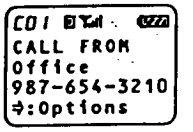
Information on the ten most recent outgoing calls, incoming calls, scratch pad entries, and missed calls are stored in the phone's Calls List. If you call the same number twice in a row, only the most recent call is stored in the Calls List.



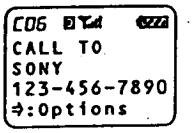
1 On the standby display, turn ◎ once.
The Phone List display appears.



2 Turn ◎ up to go to "Calls List."
Information on the most recent call appears.
"Calls List is empty" displays if there are no entries.



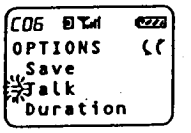
3 Turn ◎ to select the entry you want.
The contents of the selected entry displays.



4 Open the arm microphone if it is closed.

If the arm microphone is open, push ◎.

The Options menu appears.



Push ◎ again.
The phone dials the selected Calls List entry.
The ✆ icon appears.

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Tips

- To dial, you also can press TALK (when the arm microphone is open) after selecting the entry in step 3 on the previous page.
- If the selected entry contains a pause or a link, only the digits up to the pause or link are dialed. To release pauses and links, see page 27.
- In addition, you can use the Directory menu to view the Calls List (see page 55).

To view detailed information of Calls List entries

Using the Options menu in step 4 on the previous page, In addition, you can view the digits of a phone number that do not fit on the screen, the duration of the call, or the time and date of the call.

To view	Select
digits that do not fit on the screen	View Number
the duration of the call	Duration
the time and date of the call	Time/Date

To save the number to the Phone Book

Select "Save" from the Options menu in step 4 on the previous page by pushing the Jog Dial™ navigator.

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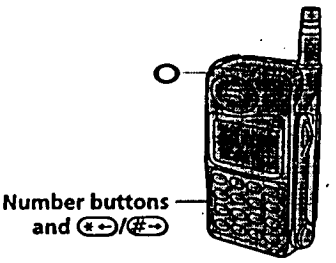
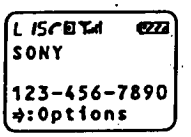
Sending DTMF signals from the Phone Book

You can send DTMF (Dual Tone Multiple Frequency) signals to access electronic services (such as telephone banking) when dialing numbers from the Phone Book. Dual Tone Multiple Frequency is also known as "touch-tone." Tones are generated when you press a telephone button (number, #, or *). It can be used to access answering machines, pagers, telephone banking services, data services, and other electronic services.



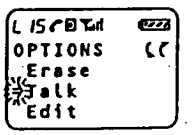
1 During a call, search for the Phone Book entry that contains the numbers you want to send.

The selected entry is displayed. Use the Directory menu to search for the Phone Book entry (see pages 53 and 54).



2 Push .

The Options menu appears.

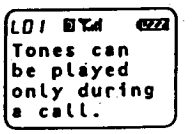


3 Turn to select "Send Tones," then push .

A DTMF signal, containing the entered digits, is sent in a burst.

If you try to send a DTMF signal in standby mode

The following message is displayed. You can send a DTMF signal only during a call.



Notes

- To enter and send numbers one by one during a call, use the number buttons and #/* to send the DTMF number.
- To change the length of the DTMF transmission, see "Setting the keybeep length" on page 47.

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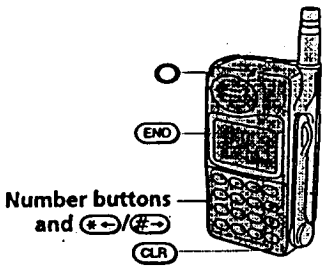
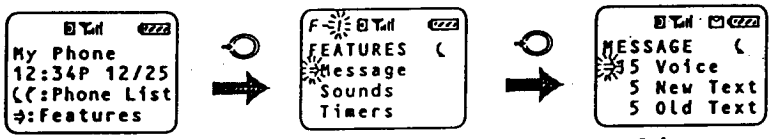
About the Features menus

You can use the Features menu to customize the special features of your phone.



Menu structure

The phone uses a hierarchical on-screen menu structure for setting and editing parameters. For a comprehensive list of submenus and corresponding settings, see "List of menu items" on pages 72 and 73.

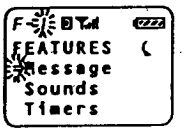


Standby display | Main (Features) menu | Submenu

Viewing and selecting menu options

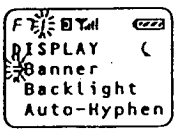
The Jog Dial™ navigator makes it easy to navigate the phone's menus. The procedure to view and select menu options is common to most of the Features menus (see page 72). These menus are also accessible during a call. The following example shows how to set the backlight.

1 On the standby display, push ◯ to select "Features."



If the standby display is not shown, press END or hold down CLR, then push ◯ to display the Features menu. The arrow and the menu number flash, indicating which menu will be selected by pushing ◯ (in this case the Message menu [F-1]).

2 Turn ◯ to select "Display," then push ◯.



The Display menu appears. The arrow and the last digit of the submenu number flash, indicating which submenu will be selected by pushing ◯ (in this case the Banner menu [F71]).

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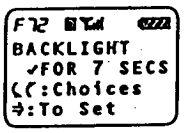
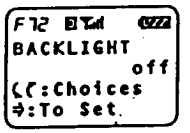
3 Turn ◯ to select "Backlight," then push ◯.

The Backlight menu appears. The current setting is indicated by a check mark (✓) and is displayed in capital letters. (See page 65 for an additional description on setting the backlight.)



4 Turn ◯ to select the setting.

The available options appear in a cyclic manner as you turn ◯.



5 Push ◯ to enter the new setting.

The standby display reappears.

To exit from the Features menu

Press END or hold down CLR to return to the standby display.

To return to the previous display

Press CLR. To go back further, press CLR again.

Notes

- If you reach the last menu item and try to turn ◯ further, a beep indicates that you have reached the end of the menu. To view other menu items, turn ◯ in the opposite direction.
- The standby display automatically reappears after 30 seconds of inactivity, except in the Phone List.

Tip

Each menu item can be accessed quickly from the standby display by pushing ◯ and then pushing the number of the menu item. The item number then appears in the upper left corner of the display in step 3. For example, you can access the backlight setting by pushing ◯ followed by 7PQRS and 2ABC.

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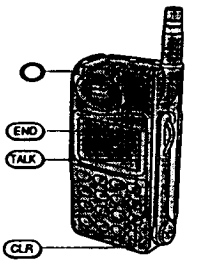
Using the Short Messaging Service

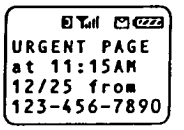
This section contains information on the Short Messaging Service (SMS). This feature lets you receive "text" messages, which are stored in your phone as long as there are enough memory locations available.
Contact your service provider to see if this service is available in your area.



Receiving messages

To receive messages, the phone must be turned on. The phone supports three types of messages: "TEXT" indicates a text message; "PAGE" typically contains only digits; "VOICE" is a voice mail notification, and indicates the number of new voice mail messages stored in your voice mailbox.

When you receive a message



The message icon (✉) appears on the display and the call alert indicator flashes, accompanied by audible alerts. The following display appears. The first line indicates message type and priority. If the message is urgent, the message type is preceded by the word URGENT. If you press any key, this display disappears. The message icon (✉) remains displayed as long as there are unread messages.

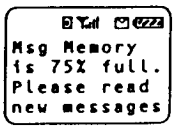
Tip

If you receive duplicate messages, the phone deletes the older one and stores the new one with the indication "DUPLICATE."

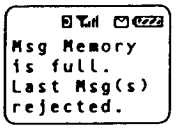
Notes

- When you receive a new message and your phone does not have enough memory to store it, the phone automatically erases old messages that are not locked.
- If the ringer volume is set to "vibration," the phone emits a vibration instead of an audible ring when you receive a message.

If the memory becomes full



The phone issues a warning when the memory is 75% full. At this point, you should erase expendable messages (see page 43).



If the memory becomes completely full or your phone does not have enough memory to receive an incoming message, new messages are rejected and the following display appears.

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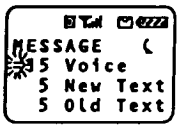
Accessing messages

1 Push ◁○ twice from the standby display.

The Message menu appears, indicating the number of the following types of messages, respectively:

- Voice mail messages (see the section below).
- Unread text messages and pagings (see page 39).
- Text messages and pagings that you have already read, but are still stored in memory (see page 40).



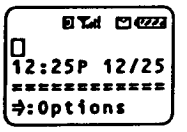
Reading voice mail notification messages [F11]

1 Push ◁○ to select "Voice" from the Message menu.

The Voice display appears, indicating the number of voice messages stored in your voice mailbox. Press CLR to go back to the Message menu.

2 Turn ○ to scroll through the message.

A hollow box (□) indicates the end of the message.



Accessing voice mail

You can access voice mail center easily.

1 Press and hold 1 for about two seconds.

or

Press 1, then press TALK.

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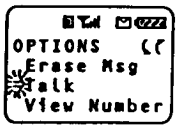
To erase a voice message

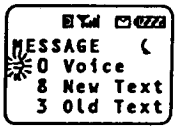
1 After reading a voice mail notification message, push ◯.

The Options menu appears.



2 Turn ◯ to select "Erase Msg," then push ◯.

The voice mail notification message is erased. The Message menu reappears, indicating that there are currently no voice mail notification messages stored in memory.



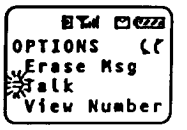
To dial a callback number

1 After reading a voice mail notification message, open the arm microphone if it is closed.

The phone dials the callback phone number which is attached to the message.

If the arm microphone is open, push ◯ to see the Options menu.

Then push ◯ again to dial the callback phone number.



Tip

In addition, you can dial the callback number by pressing (TALK) when reading a voice mail notification message if the arm microphone is open.

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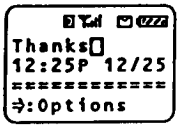
Reading new text messages [F12]

You can read both new and old messages stored in memory. Urgent messages are listed above non-urgent ones, with the most recent entries first. After reading messages, you can protect or erase them.

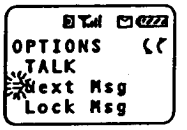
1 Turn ◎ to select "New Text" from the Message menu, then push ◎.
The first message is displayed.

If there are no new messages, the following display appears. Push ◎ to return to the Message menu.

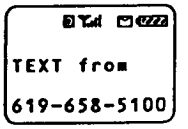
2 Turn ◎ to scroll through the message.
If you do not scroll, the display automatically scrolls down. A hollow box (□) indicates the end of the message.



3 To proceed to the next message, push ◎.
The Options menu appears. To return to the standby display, press END.



4 Turn ◎ to select "Next Msg," then push ◎.
The next message is displayed. If there are no more messages, the Message menu reappears.



To return to the previous message

In step 4 above, select "Prev Msg" from the Options menu.

Note

Once you reach the end of the message and go to the next message, previous message is stored as old message.

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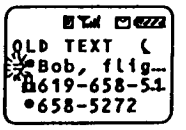
Reading old text messages [F13]

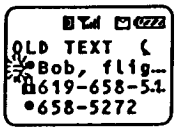
The most recent messages are listed first.

1 Turn ◯ to select "Old Text" from the Message menu, then push ◯.

A list of old messages is displayed. A dot (•) indicates the beginning of each message. A lock icon (🔒) indicates that the message is locked (see page 41). If a number is too long to fit, an ellipsis (...) is used.

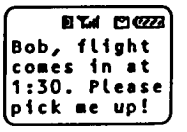


2 Turn ◯ to scroll through the list of old messages.



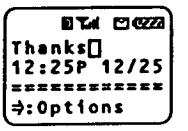
3 To read the selected message, push ◯.

The selected message is displayed.



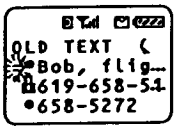
4 Turn ◯ to scroll through the message.

If you do not scroll, the display automatically scrolls down to the end of the message, which is indicated with a hollow box (□).



5 When you have read the message, press CLR to return to the list of old messages.

To read the next message, push ◯ to go to the Options menu, then select "Next Msg."
To read the previous message, push ◯ to go to the Options menu, then select "Prev Msg."



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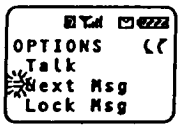
To protect a text message

You can lock a message to protect it from being erased.

1 After reading a message, push ●.
The Options menu appears.



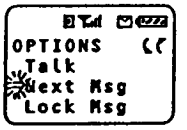
2 Turn ◐ to select "Lock Msg," then push ●.
The following display appears, and the message is now locked.

Note

The phone does not erase locked messages automatically. When there is not enough memory for incoming messages, you must erase the locked messages manually.

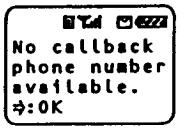
To respond to a text message

1 After reading a text message, open the arm microphone if it is closed.



2 If the arm microphone is open, push ● to see the Options menu. Then, turn ◐ to select "Talk," then push ●.
The phone dials the callback phone number which is attached to the message.

If the callback number is not attached to the message, no call is made and the following message is displayed.



Advanced Features

Tip

In addition, when viewing a text message or the list of old messages, you can dial the callback phone number simply by opening the arm microphone, or pressing (TALK) when the arm microphone is already open.

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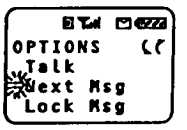
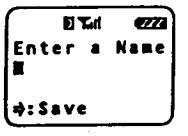
To save the callback number

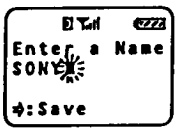
1 After reading a message, push ◉.
The Options menu appears.



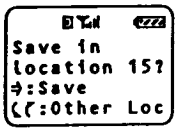
2 Turn ◉ to select "Save Number," then push ◉.
The following display appears, prompting you for a name to accompany the number.



3 Use the number buttons to enter the name.
If you press the same button in quick succession, the letter you just entered changes. (See the "Alphanumeric table" on page 21.) Use #→/*← or Jog Dial™ navigator to move the cursor or to insert spaces between characters. If you enter the wrong character, press CLR to clear the character highlighted by the cursor.

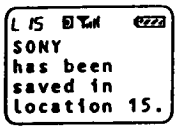


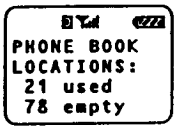
4 When you are finished, push ◉ to store the phone number and name.
A display similar to the following appears.



5 Push ◉ to store the new number in the first available memory location.
If you want to store it in another location, turn ◉ to select the desired location, then push ◉.

A confirmation message appears, followed by the status of the Phone Book.





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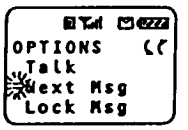
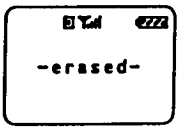
To erase a text message

1 After reading a text message, push ⊙.
The Options menu appears.

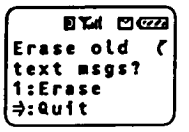


2 Turn ⊙ to select "Erase Msg," then push ⊙.
The message is erased.

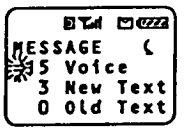


Erasing all old text messages [F14]

1 Turn ⊙ down to select "Erase Old" from the Message menu, then push ⊙.
The Erase Old menu appears.



2 Press 1 to erase all old messages.
To go back to the Message menu without erasing the messages, push ⊙. If you erase all old messages, this is indicated on the Message menu.



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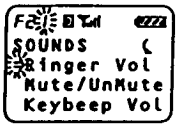
Adjusting the volume

You can adjust the volume of the ringer, keybeep, and earpiece on the Sounds menu. In addition, you can select the type of sounds heard when the phone rings (see page 46) and when you press buttons (see page 47).

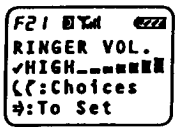


Sounds menu

Adjusting the ringer volume [F21]

1 Push ◯ to select "Ringer Vol" from the Sounds menu.

The Ringer Vol menu appears.



2 Turn ◯ up to raise the ringer volume, and down to lower it.

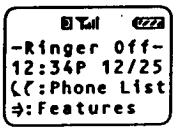
You can select from six ringer volume settings: "off," "low," "med. (medium)," "high," "escalate," and "vibration."

3 Push ◯ to enter the new setting.

The standby display reappears.

If you turn off the ringer volume

The message "–Ringer Off–" is displayed at the top of the screen when the standby display appears.



Tips

- If you set the ringer volume to "escalate," the telephone rings twice at a low volume, then once at medium volume, and thereafter at a high volume.
- If you set the ringer volume to "vibration," the telephone emits a vibration instead of an audible ring.
- If the telephone is used in conjunction with a hands-free car kit or a portable hands-free car kit, the "vibration" setting is not available.
- If the telephone is connected to a wall outlet and the ringer volume is set to "vibration," the telephone emits an audible ring at the "high" setting instead.

Muting/unmuting the microphone [F22]

You can mute/unmute the phone during a call directly, without using the Sounds menu by pushing and holding ◯.

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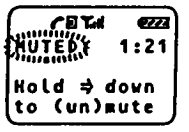
In addition, you can mute/unmute the microphone during a call using the Sounds menu as follows. This feature is disabled in standby mode.

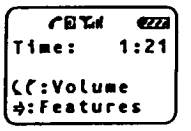
1 During a call, turn ◐ to select "Sounds" from the Features menu, then push ⊙.
The Sounds menu appears.

2 Turn ◐ to select "Mute/UnMute" then push ⊙.
The following display appears. Now the microphone is muted.



3 To unmute the microphone, turn ◐ to select "Sounds" from the Features menu, then push ⊙.
The Sounds menu reappears.

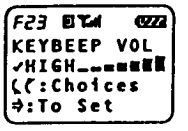
4 Turn ◐ to select "Mute/UnMute" then push ⊙.
The following display appears. Now the microphone is unmuted.



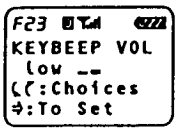
Adjusting the keybeep volume [F23]

You can adjust the volume of the beep that sounds when you press a button.

1 Turn ◐ to select "Keybeep Vol" from the Sounds menu, then push ⊙.
The Keybeep Vol menu appears.



2 Turn ◐ up to raise the keybeep volume, and down to lower it.
You can select from four keybeep volume settings: "off," "low," "med. (medium)," and "high."



3 Push ⊙ to enter the new setting.
The standby display reappears.

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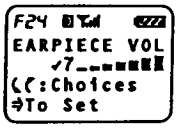
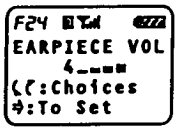
Adjusting the earpiece volume [F24]

You can adjust the speaker volume.

1 Turn ↻ to select "Earpiece Vol" from the Sounds menu, then push ⟲.
The Earpiece Vol menu appears.



2 Turn ↻ up to raise the earpiece volume, and down to lower it.
There are seven earpiece volume settings ranging from "1" to "7." A higher number indicates higher volume.



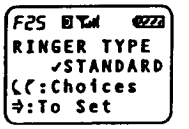
3 Push ⟲ to enter the new setting.
The standby display reappears.

Tip
You can adjust the earpiece volume during a call by turning ↻.

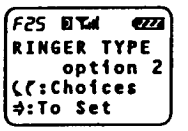
Setting the ringer type [F25]

You can set the type of beep that sounds for an incoming call.

1 Turn ↻ to select "Ringer Type" from the Sounds menu, then push ⟲.
The Ringer Type menu appears.



2 Turn ↻ to select the ringer type.
You can select from five different ringer settings. The ringer sounds every time you turn ↻.



3 Push ⟲ to enter the new setting.
The standby display reappears.

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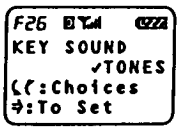
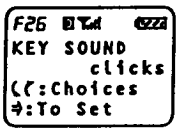
Setting the keybeep type [F26]

You can set the beep that sounds when you press a button to either a tone or a click. Tones sound similar to DTMF tones. Clicks are indicated by single beeps.

1 Turn ◎ to select "Key Sound" from the Sounds menu, then push ◎.
The Key Sound menu appears.



2 Turn ◎ to select the keybeep type.
You can select "tones" or "clicks."



3 Push ◎ to enter the new setting.
The standby display reappears.

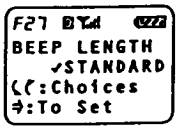
Note

DTMF tones are played to the other party during a call even if you set the keybeep type to "clicks."

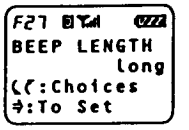
Setting the keybeep length [F27]

You can set the length of the beep that sounds when you press a button. This setting affects both the keybeep feedback and DTMF transmission tones. The phone sends a short DTMF burst (default) or plays every tone of the DTMF signal as long as the key is held down.

1 Turn ◎ to select "Beep Length" from the Sounds menu, then push ◎.
The Beep Length menu appears.



2 Turn ◎ to select the keybeep length.
You can select "standard" or "long."



3 Push ◎ to enter the new setting.
The standby display reappears.

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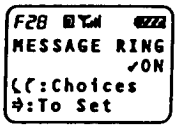
Message ring

Setting the message ring [F28]

1 Turn ◐ to select "Message Ring" from the Sounds menu, then push ⟲.
The Message Ring menu appears.



2 Turn ◐ to select the setting.
If you select "on," beeps sound when you receive a new message. In addition, a beep will sound every 3 minutes to remind you that you have unread message(s) if you select "+ reminder."

If you select "off," beeps will not sound when you receive new message(s).

3 Push ⟲ to enter the new setting.

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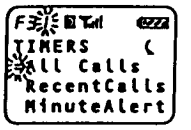
Checking and setting the timers

You can check call durations on the Timers menu. In addition, you can set the phone to alert you every minute of a call, and make the phone turn itself off automatically.

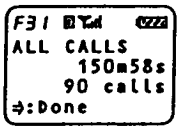


Timers menu

Checking the duration of all calls [F31]

You can view the total duration of all calls. This information cannot be reset.

1 Turn ◎ to select "All Calls" from the Timers menu, then push ⟲.
The All Calls display appears.

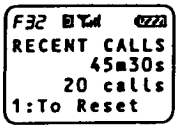


2 Push ⟲ to go back to the standby display.

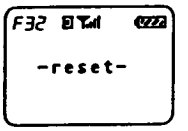
Checking and resetting the duration of recent calls [F32]

You can view the total duration of the most recent calls.

1 Turn ◎ to select "Recent Calls" from the Timers menu, then push ⟲.
The Recent Calls display appears.



2 Press 1 to reset, or hold down CLR to go back to the standby display.
If you choose to reset, the counter of recent calls and the corresponding durations are reset.



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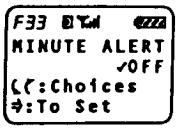
Setting the minute alert [F33]

You can set the phone to alert you ten seconds before every full minute.

1 Turn to select "Minute Alert" from the Timers menu, then push .

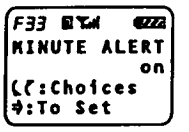
The Minute Alert menu appears.



```
F33
MINUTE ALERT
        ✓OFF
:Choices
:To Set
```

2 Turn to select "on" or "off."

```
F33
MINUTE ALERT
          on
:Choices
:To Set
```



3 Push to enter the new setting.

The standby display reappears.

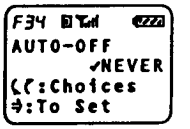
Setting the phone to automatically turn off [F34]

You can set the phone to automatically turn itself off after a specified duration.

1 Turn to select "Auto-Off" from the Timers menu, then push .

The Auto-Off menu appears.

```
F34
AUTO-OFF
      ✓NEVER
:Choices
:To Set
```



2 Turn to select the duration before the phone powers off automatically.

You can select from five settings: "never," "in 3 hours," "in 2 hours," "in 1 hour," and "in 30 mins." If you select "never," the phone does not turn itself off automatically.

```
F34
AUTO-OFF
  in 30 mins
:Choices
:To Set
```

3 Push to enter the new setting.

If you set the phone to power off in 30 minutes, for example, the following display appears.

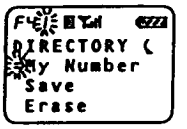
```
F34
Phone will
turn off in
30 minutes.
```

Notes

- If you press any button or operate the Jog Dial™ navigator, the timer is reset and the countdown starts over.
- The phone does not turn itself off automatically during a call.
- If the Auto-Off timer is set, the phone turns off after a user-specified duration and the countdown "Off:xx:xx:xx" is displayed.
- Once the phone turns off, the setting will revert to "never."

Using the Directory

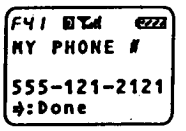
You can use the Directory menu to check your phone number, as well as store, erase, and edit phone numbers and names in the Phone Book. In addition, you can use this menu to view the Calls List.



Directory menu

Checking your phone number [F41]

1 Push ◯ to select "My Number" from the Directory menu.
The My Phone # display appears, showing your phone's number.

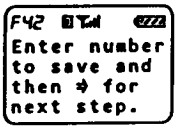


2 Push ◯ to exit this feature.
The standby display reappears.

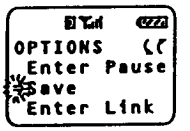
Storing phone numbers [F42]

For quick and easy dialing, the Phone Book allows you to store up to 99 phone numbers.

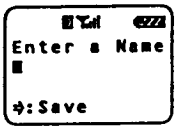
1 Turn ◯ to select "Save" from the Directory menu, then push ◯.
The following display appears.



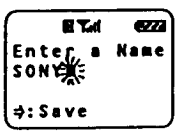
2 Use the number buttons and #/* to enter the phone number, then push ◯.
The Options menu appears. (See the "Alphanumeric table" on page 21.)



3 Turn ◯ to select "Save," then push ◯.
The following display appears, prompting you for a name to accompany the number.



4 Use the number buttons to enter the name.
Use #/* or Jog Dial™ navigator to move the cursor or to insert spaces between characters. If you enter the wrong character, press CLR to clear the character highlighted by the cursor. (See the "Alphanumeric table" on page 21.)



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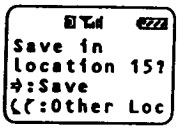
5 When you are finished, push ◯ to store the phone number and name.

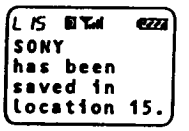
A display similar to the following appears.

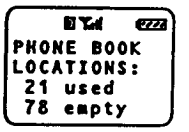


6 Push ◯ to store the new number in the first available memory location.

If you want to store it in another location, turn ◯ to select the desired location, then push ◯.

A confirmation message appears, followed by the status of the Phone Book.





Tip

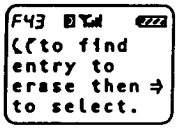
In addition, you can use the Options menu to store Phone Book numbers (see page 20).

Erasing a phone number [F43]

You can erase stored Phone Book entries. If the selected entry is restricted, you must enter the four-digit lock code to erase it (see page 60).

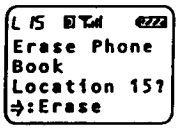
1 Turn ◯ to select "Erase" from the Directory menu, then push ◯.

The following display appears, prompting you for the Phone Book entry to be erased.



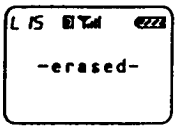
2 Turn ◯ to select the entry you want to erase, then push ◯.

A display similar to the following appears, prompting you to confirm that the selected Phone Book entry should be erased. In addition, you can use the number buttons to select the entry to be erased.



3 Push ◯ again.

The selected entry is erased. After a few seconds, the standby display reappears.



Tips

- In addition, you can use the Options menu to erase one Phone Book entry at a time (see page 24).
- Use the Security menu to erase all Phone Book entries at once (see page 62).

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Editing stored information [F44]

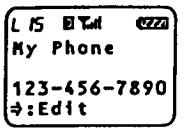
You can edit the name, phone number, and memory location of specific entries stored in the Phone Book. If the selected entry is restricted, you must enter the four-digit lock code to edit it (see page 60).

1 Turn ◯ to select "Edit" from the Directory menu, then push ◯.

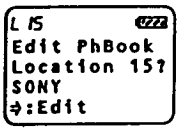
The following display appears, prompting you for the Phone Book entry to be edited.

2 Turn ◯ to select the entry that contains the information you want to edit.

In addition, you can use the number buttons to select the entry to be edited.



A display similar to the following appears, prompting you to confirm that the selected Phone Book entry should be edited.

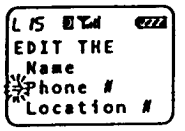


3 Push ◯ again.

The Edit menu appears.

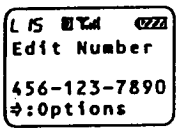
4 Turn ◯ to select the item you want to change, then push ◯.

You can change the name, phone number, or memory location by selecting "Name," "Phone #," or "Location #," respectively. The stored information that corresponds to the selected item appears.



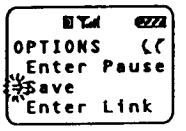
5 Enter the new information.

The old information is overwritten.



6 When you are finished, push ◯.

The Options menu appears when you edit the name, phone number, or the memory location. New information is stored immediately.



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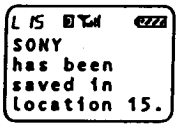
7 Turn ◯ to select "Save," then push ◯.

A display similar to the following appears, confirming that your changes have been saved.

```
L 15
SONY
has been
saved in
location 15.
```



Tip

In addition, you can use the Options menu to edit Phone Book entries (see page 23).

Searching the Phone Book by name [F45]

You can find name entries in the Phone Book by searching alphabetically or for a string of characters.

Tip

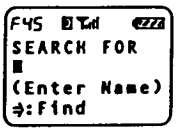
In addition, you can use the Options menu to search the Phone Book by names (see pages 28 and 29).

To search alphabetically

When you enter only one character, the phone lists all entries that begin with the entered character.

1 Turn ◯ to select "Find Name" from the Directory menu, then push ◯.

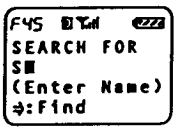
The Search display appears, prompting you for a search string.



```
F45
SEARCH FOR
■
(Enter Name)
⇒:Find
```

2 Enter only one character.

```
F45
SEARCH FOR
S■
(Enter Name)
⇒:Find
```



3 Push ◯.

All Phone Book entries are listed that begin with the entered character.

```
L 15
SONY

123-456-7890
⇒:Options
```

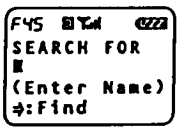
4 Turn ◯ to view the next entry.

To search for a string of characters

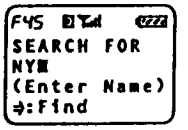
When you enter two or more characters, the phone searches for entries that contain the entered string. The results are listed starting from the lowest memory location number.

1 Turn ◎ to select "Find Name" from the Directory menu, then push ◎.

The Search display appears, prompting you for a search string.

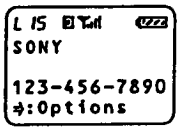


2 Enter at least two characters.



3 Push ◎.

The entries containing the selected string are listed starting from the lowest memory location number.



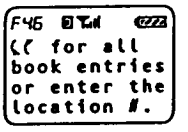
4 Turn ◎ to view the next entry.

Searching the Phone Book by memory location [F46]

You can find memory locations easily.

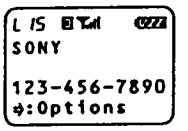
1 Turn ◎ to select "Phone Book" from the Directory menu, then push ◎.

The following display appears, prompting you for a search string.

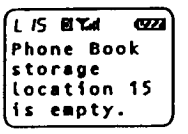


2 Use the number buttons to enter the memory location number.

The Phone Book entry that matches the search string is displayed.



If the selected entry is empty, the display shows the message "Phone Book storage location XX is empty." After a few seconds, the standby display reappears.



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Tips

- In addition, you can use the Options menu to recall Phone Book memory locations (see page 29).
- In addition, you can turn ◯ to scroll through the entire Phone Book instead of entering the memory location number in step 2.

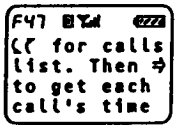
Viewing the Calls List [F47]

You can view Calls List entries easily.

1 Turn ◯ to select "Calls List" from the Directory menu, then push ◯.

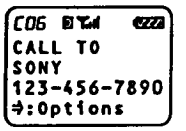
The following display appears, allowing you to view the Calls List.

If the Calls List is empty, the display shows the message "Calls List is empty."



2 Turn ◯ to view the Calls List entries.

The most recent entry is displayed first. To view the rest of the ten most recent entries, turn ◯.



Tip

In addition, you can view the Calls List from the standby display (see page 31).

To place a call

Press TALK in step 2. You also can push ◯ to go to the Options menu, then select "Talk" and push ◯.

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Miscellaneous extra features

On the Extras menu, you can set the phone to enable touch dialing, redial automatically, and answer incoming calls automatically or at the press of any button. In addition, you can use this menu to lock the keypad and to jot down phone numbers.

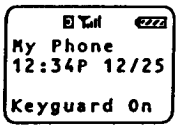
Extras menu

Preventing accidental operation [F51]

When the microphone is closed, you can lock the keypad by pushing and holding ⊙ from the standby display. Locking the keypad offers low-level security. For example, it disables accidental dialing when you keep the phone in your pocket. In addition, you can lock the keypad as follows.

1 Turn ⊙ to select "Key Guard" from the Extras menu, then push ⊙.
The following message appears.

After a few seconds, the standby display reappears. The text "Keyguard On" indicates that the keypad is locked.



To unlock the keypad

Open the arm microphone or press 1, 2ABC and 3DEF in quick succession.

To answer an incoming call when the keypad is locked

Just open the arm microphone. You do not need to unlock the keypad.

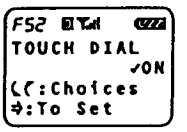
Tips

- You can lock the keypad even when the phone itself is locked (see page 59).
- The backlight and keybeeps are turned off when the keypad is locked.

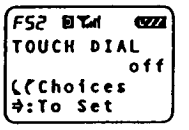
Activating touch dialing [F52]

If you want to use the touch dialing feature (see page 27), set to "on."

1 Turn ⊙ to select "Touch Dial" from the Extras menu, then push ⊙.
The Touch Dial menu appears.



2 Turn ⊙ to select "on" or "off."



3 Push ⊙ to enter the new setting.
The standby display reappears.

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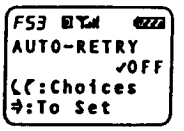
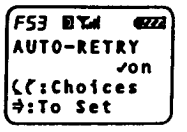
Setting the phone to redial automatically [F53]

You can set the interval for redialing. If a number is not dialed successfully, the phone tries to redial it up to five times every three seconds.

1 Turn ◐ to select "Auto-Retry" from the Extras menu, then push ⊙.
The Auto-Retry menu appears.



2 Turn ◐ to select "on" or "off.
If you select "off," the phone does not try to redial automatically.



2 Push ⊙ to enter the new setting.
The standby display reappears.

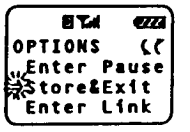
Using the scratch pad [F54]

Your phone has a scratch pad feature, which is useful for writing down phone numbers temporarily.

1 Turn ◐ to select "Scratch Pad" from the Extras menu, then push ⊙.
The Scratch Pad display appears, prompting you to enter a phone number.

2 Use the number buttons and #→/*← to enter the digits.

3 Push ⊙.
The Options menu appears. Besides storing digits, you can enter hyphens, pauses, and links (see page 22).



4 Turn ◐ to select "Store&Exit," then push ⊙.
The information is stored as a scratch pad entry in the Calls List. When the Calls List reaches more than 10 list items, the oldest entries will be deleted as needed to make room for new entries.

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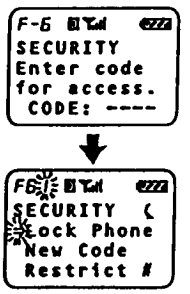
Setting security options

You can restrict unauthorized access to your phone and the information it holds. Additionally, on the Security menu, you can reset menu settings to default and store emergency numbers. Unlike other items on the Features menu, accessing the Security menu requires a lock code when you select it from the Features menu.



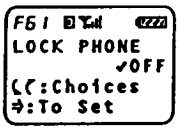
Security menu

Preventing others from using your phone [F61]

This option lets you set when the phone will be locked. When the phone is locked, carrying out most operations requires entering the lock code; you still can answer incoming calls and dial 911, *911, #911, *611, *2, or the other stored emergency numbers.

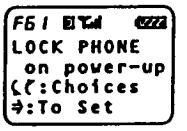
1 Push ◦ to select "Lock Phone" from the Security menu.

The Lock Phone menu appears.



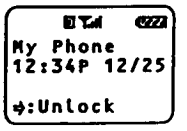
2 Turn ◦ to select when the phone will be locked.

You can select "off," "on power-up," or "right now." If you select "off," the phone is available for use without a lock code. If you select "on power-up," the phone is locked every time you turn it on.



3 Push ◦ to enter the new setting.

The standby display reappears. The message "→:Unlock" indicates that the phone is locked.



To unlock the phone

On the standby display, push ◦. When prompted, enter the lock code.

Setting a new lock code [F62]

The lock code must be entered every time you want to unlock the phone, and also when you want to access restricted numbers.

1 Turn to select "New Code" from the Security menu, then push .

The Enter New Code display appears, prompting you to enter a new lock code.

2 Use the number buttons to enter a lock code.

The lock code must be exactly four digits long.

3 Push to store the new lock code in memory.

A confirmation display appears.

Note

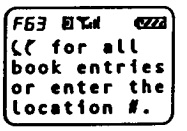
Keep a record of your lock code. If you forget it, contact your service provider.

Restricting a Phone Book entry [F63]

You can restrict access to individual Phone Book entries.

1 Turn to select "Restrict #" from the Security menu, then push .

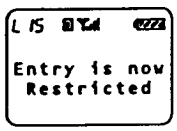
The following display appears, prompting you to specify the Phone Book entry to be restricted.



2 Turn to select the Phone Book entry that you want to restrict.

3 Push to restrict the selected entry.

Now the selected entry is restricted.



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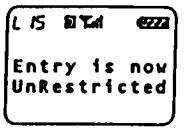
To unrestrict an entry

Follow the procedure for restricting an entry on the previous page to select the entry you want to unrestrict.



Notes

- The phone number of a restricted entry is not displayed when you view the Phone Book and make a call.
- Restricted entries are not listed or displayed after a digit string search (see pages 29 and 30).
- Calling, editing, and erasing a restricted entry requires the four-digit lock code.

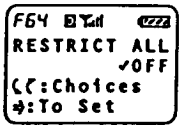
Tip

In addition, you can use the Options menu to restrict/unrestrict Phone Book entries (see page 25).

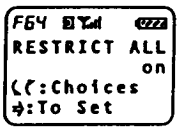
Restricting all Phone Book entries [F64]

You can restrict access to all Phone Book entries. All operations that involve Phone Book entries require the four-digit lock code (see page 60).

1 Turn ◎ to select "Restrict All" from the Security menu, then push ◎.
The Restrict All menu appears.



2 Turn ◎ to set restriction of all Phone Book entries on or off.



3 Push ◎ to enter the new setting.

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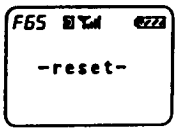
Reverting to default settings [F65]

You can reset all menu settings to the defaults. This does not affect Phone Book or Calls List entries.

1 Turn ◐ to select "Master Reset" from the Security menu, then push ⟲.
The Master Reset display appears.

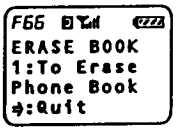
2 Press ⊐ to revert to the factory defaults, or push ⟲ to keep the current settings.
If you revert to the factory defaults, all your custom menu settings are erased.



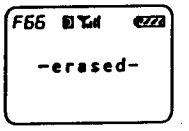
Erasing all Phone Book entries [F66]

You can erase all Phone Book entries at once.

1 Turn ◐ to select "Erase Book" from the Security menu, then push ⟲.
The Erase Book display appears.



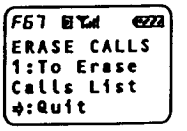
2 Press ⊐ to erase all Phone Book entries, or push ⟲ to quit without erasing.
If you erase all entries, the following display appears.



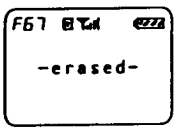
Erasing all Calls List entries [F67]

You can erase all Calls List entries at once.

1 Turn ◐ to select "Erase Calls" from the Security menu, then push ⟲.
The Erase Calls display appears.



2 Press ⊐ to erase all Calls List entries, or push ⟲ to quit without erasing.
If you erase all entries, the following display appears.



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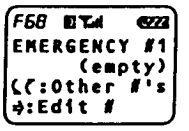
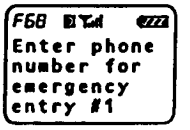
Storing emergency numbers [F68]

You can use the Security menu to store up to three emergency numbers other than 911, *911, #911, *611, and *2 (which you cannot erase). You can call these numbers even when the phone is locked.

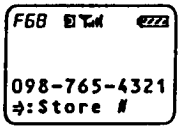
1 Turn ◯ to select "Emergency #" from the Security menu, then push ◯.
The first Emergency # display appears.



2 Turn ◯ to select the emergency memory location, then push ◯.
The following display appears, prompting you to enter the phone number for the emergency entry.



3 Use the number buttons and #/* to enter the number.



4 Push ◯ to store the emergency number.
The entered emergency number is stored in memory. To store other emergency numbers, repeat the above procedure. To go back to the standby display, hold down CLR.

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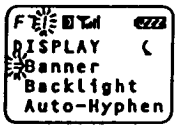
Setting display options

You can use the features on the Display menu to change the appearance of the on-screen display.



Display menu

Setting the banner [F71]

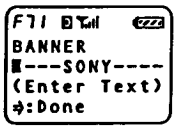
You can change what the banner reads.

1 Push ○ to select "Banner" from the Display menu.

The Banner display appears. The current banner text is displayed.

2 Push ○ again to start editing.

The following message appears, prompting you to enter a new banner.



3 Use the number buttons and #/* to enter the new banner text.

The banner can be up to 12 characters long.
For details on character entry, see the "Alphanumeric table" on page 21.

4 Push ○ to enter the new setting.

The standby display reappears. Your new banner is displayed.

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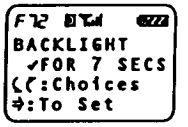
Setting the backlight [F72]

You can adjust the duration of the backlight on the display and keypad.

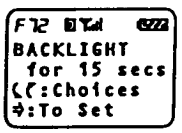
1 Turn ◯ to select "Backlight" from the Display menu, then push ◯.

The Backlight menu appears.



2 Turn ◯ to select how long the backlight is on after the last press of a button.

You can select "for 30 secs," "for 15 secs," "for 7 secs," or "off." If the phone is used in conjunction with a hands-free car kit, a cigarette lighter adapter, or a single- or dual-slot battery charger, you have the added option of "always on," which leaves the backlight on permanently.



3 Push ◯ to enter the new setting.

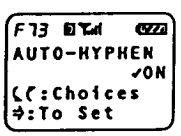
The standby display reappears.

Setting autohyphenation [F73]

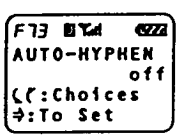
You can turn the autohyphenation feature on and off. If you turn it on, entered numbers are hyphenated according to the North American Numbering Plan (eleven digits which include a long distance identifier, an area code, a three-digit community code, and a four-digit location code e.g., 9-999-999-9999).

1 Turn ◯ to select "Auto-Hyphen" from the Display menu, then push ◯.

The Auto-Hyphen menu appears.



2 Turn ◯ to select "on" or "off."



3 Push ◯ to enter the new setting.

The standby display reappears.

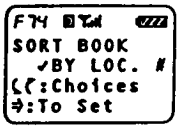
Note

Autohyphenation is not fully deactivated when a pause or link is entered. All entered hyphens up to the pause/link will remain.

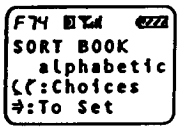
Sorting the Phone Book [F74]

You can determine how the Phone Book will be displayed, and also set the phone to sort the entries either alphabetically or by memory location.

1 Turn ◯ to select "Sort Book" from the Display menu, then push ◯.
The Sort Book menu appears.



2 Turn ◯ to set the sorting preferences.
You can choose to sort the Phone Book "by Loc. #" (by location) or "alphabetic" (alphabetically).



3 Push ◯ to enter the new setting.
The standby display reappears.

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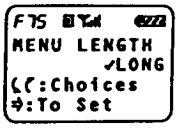
Setting the menu length [F75]

You can set the menu length (long or short). The short menu displays only the most common items on the Features menu; the long menu displays all items.

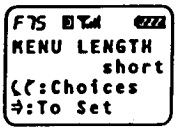
1 Turn ◎ to select "Menu Length" from the Display menu, then push ⊙.

The Menu Length menu appears.



2 Turn ◎ to set the menu length.

You can select "short" or "long."



3 Push ⊙ to enter the new setting.

The standby display reappears.

Items on the short menu

The short menu contains the following items:

- Message (see page 36)
- Ringer Vol (see page 44)
- My Number (see page 51)
- Phone List (see pages 28, 23, 31)
- Lock Phone (see page 59)
- Long Menu

Note

The item "Phone List" contains the items "Find Name" (see page 28), "Phone Book" (see page 23), and "Calls List" (see page 31).

To return to the long menu

On the short menu, turn ◎ to select "Long Menu," then push ⊙.

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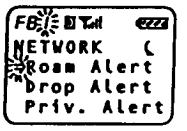
Adjusting network settings

On the Network menu, you can set the phone to alert you when the roaming status changes, when a call is dropped, or when enhanced voice privacy is lost. You can set how NAM's (Number Assignment Modules) are switched, and also activate new services. NAM's are phone identifier numbers associated specifically with your phone. For example, you may have both a business phone number and also a personal phone number associated with your phone.



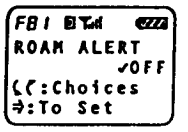
Network menu

Setting the roaming alert [F81]

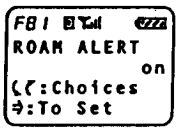
Your phone is roaming when you use it outside of the home area. Roaming access to a different carrier and the types of calls you can make varies with the agreement between your "home" carrier and the currently serving carrier. Check with your service provider for details about roaming in a specific area.

1 Push ⟲ to select "Roam Alert" from the Network menu.

The Roam Alert menu appears.



2 Turn ⟲ to select "on" or "off."



3 Push ⟲ to enter the new setting.

The standby display reappears.

When you enter another service area

The roaming icon (R) appears on the display. A beep accompanies the icon if you have turned the roam alert on.

If you leave any valid service area

The following display appears, indicating that you are outside the area serviced by your "home" carrier or other valid service areas. The out-of-service icon (X) also appears.

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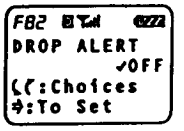
Setting the drop alert [F82]

If the signal fades, your phone may drop the ongoing call. You can choose to be alerted by an audible alarm when a call is dropped.

1 Turn ◎ to select "Drop Alert" from the Network menu, then push ⊙.

The Drop Alert menu appears.



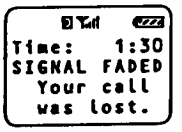
2 Turn ◎ to select "on" or "off."

3 Push ⊙ to enter the new setting.

The standby display reappears.

When a call is dropped

The following display appears accompanied by a beep if drop alert has been turned on.



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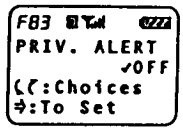
Setting the voice privacy alert [F83]

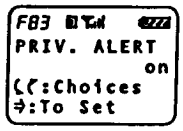
A display appears to indicate if enhanced voice privacy is lost during a call. You can choose to have an audible alarm accompany this display.

1 Turn to select "Priv. Alert" from the Network menu, then push .

The Priv. Alert menu appears.



2 Turn to select "on" or "off."

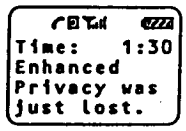


3 Push to enter the new setting.

The standby display reappears.

If enhanced voice privacy is lost

The following display appears accompanied by a beep if the voice privacy alert has been turned on.



When enhanced voice privacy is regained

The following display appears accompanied by a beep if the voice privacy alert has been turned on.

Note

The network automatically turns on enhanced voice privacy if it is available. You do not have to change your phone settings. For details, contact your service provider.

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Troubleshooting

Problem	Cause/Remedy	Page
Nothing appears on the display.	• The phone is off. Turn the phone on. • Battery is fully discharged. Recharge the battery.	14 12
The out-of-service icon (✕) appears.	• The phone is outside the service area, or the signal is too weak. Extend the antenna fully. • Check NAM settings on the Network menu. If you set "Auto-NAM" to "off" and you are using two NAM's, the phone may be ignoring an available service.	14 68
Nothing happens when you press the buttons.	• The buttons may be locked. • The phone may be locked. Enter the lock code to unlock the phone.	57 59
The call does not go through.	• Check the signal strength. • If the out-of-service icon (✕) is displayed, there is no service. See above. • Check the number. • Press SEND. • Listen for a busy signal.	14 14 16 16 —
You can hear the other party, but the other party cannot hear you.	• The microphone may be muted. Unmute the microphone.	17, 45
You hear the other party only faintly.	• Adjust the earpiece volume. If possible, also reduce the noise around you.	17, 44
The call is cut off ("dropped").	• You are possibly out of the coverage area. Redial the number. If the problem continues, contact your carrier. Also see "The out-of-service icon (✕) appears" above.	69
You hear an alternate high/low tone.	• You are attempting to use the phone in an area without service. • Extend the antenna fully. • Wait for the out-of-service icon to disappear, then try to dial.	14 14 14
You forgot the lock code.	• Try 0000, 1234 (commonly used as defaults), or the last four digits of your own number. • See your authorized dealer or service provider.	60 —
You hear a fast busy tone.	• The fast busy tone can result from any one of the following problems: – The phone is improperly programmed. – The phone is out of range. – All channels are busy. – The antenna is broken or damaged.	 — 14 — 14
You cannot place or receive calls.	• Make sure that the phone is turned on, and that the out-of-service icon is not displayed. • Check the system settings. If you are roaming, consult your service provider concerning roaming agreements.	14 —

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List of menu items

This section lists the Features menu and its submenus. Use these to set the various parameters that pertain to the operation of the phone. For details on how to navigate from one menu to another, see "About the Features menus" on page 34.

Submenu	Menu Item	Settings	Page
F-1 Message	F11 Voice	—	37
	F12 New Text	—	39
	F13 Old Text	—	40
	F14 Erase Old	—	43
F-2 Sounds	F21 Ringer Vol	off / low / medium / high / escalating / vibration	44
	F22 Mute/UnMute	mutes or unmutes the microphone	45
	F23 Keybeep Vol	off / low / medium / high	47
	F24 Earpiece Vol	1 / 2 / 3 / 4 / 5 / 6 / 7	46
	F25 Ringer Type	standard / option 1 to 4	46
	F26 Key Sound	tones / clicks	47
	F27 Beep Length	standard / long	47
	F28 Message Ring	on / + reminder / off	48
F-3 Timers	F31 All Calls	total call time, number of calls	49
	F32 Recent Calls	total call time, number of calls 0 m 0 s 0 call	49
	F33 Minute Alert	on / off	50
	F34 Auto-Off	never / in 3 hours / in 2 hours / in 1 hour / in 30 mins	50
F-4 Directory	F41 My Number	—	51
	F42 Save	—	51
	F43 Erase	—	52
	F44 Edit	—	53
	F45 Find Name	—	54
	F46 Phone Book	No default entries	55
	F47 Calls List	No default entries	56
F-5 Extras	F51 Key Guard	—	57
	F52 Touch Dial	on / off	57
	F53 Auto-Retry	on / off	58
	F54 Scratch Pad	—	59

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Submenu	Menu Item	Settings	Page
F-6 Security	F61 Lock Phone	never / on power-up / right now	59
	F62 New Code	0000	60
	F63 Restrict #	No default restricted numbers	60
	F64 Restrict All	on / off	61
	F65 Master Reset	—	62
	F66 Erase Book	—	62
	F67 Erase Calls	—	62
	F68 Emergency #	No default numbers for #1 to #3	63
F-7 Display	F71 Banner	No default banner	64
	F72 Backlight	off / for 7 secs / for 15 secs / for 30 secs / always on	65
	F73 Auto-hyphen	on / off	65
	F74 Sort Book	by loc. # / alphabetic	66
	F75 Menu Length	long / short	67
F-8 Network	F81 Roam Alert	on / off	68
	F82 Drop Alert	on / off	69
	F83 Priv. Alert	on / off	70

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Specifications

Frequency range	Transmit: 1851.25 to 1908.75 MHz Receive: 1931.25 to 1988.75 MHz
Dimensions	XXX x XXX x XXX inches (h/w/d) (not including antenna) (100 x 50 x 25 mm)
Mass (weight)	Approx. XXX oz (160 g) (including battery)
RF power output	0.01 µW to 300 mW
Operational temperature	-22°F to +140°F (-30°C to +60°C) (excluding battery pack)
Supplied Accessories	QN-029BPLH Hi-Cap Li-Ion Battery (1) QN-001AC AC Adapter (1) Hand strap (1)
Optional Accessories	TBD

Design and specifications are subject to change without notice.

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Glossary

A

Automatic NAM
Feature that automatically selects an available NAM that matches the current serving system (carrier).

Automatic retry
Feature that automatically redials a call when a "System Busy" indication is received.

B

Banner
Message at the top of the standby display.

C

Calls List
See "Phone Book."

Carrier
A company that provides cellular and PCS telephone service.

CDMA
Code Division Multiple Access. A spread-spectrum approach to digital transmission. With CDMA, each conversation is digitized, and then tagged with a code. The mobile phone receives only the signal with the appropriate code.

Coverage area
The geographic area covered by one carrier. If you travel outside a carrier's area, you cannot receive service from that carrier. Also see "Roam."

D

Dropped call
A call terminated because of a deep, long fade or because the user left the coverage area.

DTMF
Dual Tone Multiple Frequency, also known as "touch-tone." Tone generated when you press a telephone button (number, #, or *). Can be used to access answering machines, pagers, telephone banking services, data services, and other electronic services.

E

ESN
Electronic Serial Number. The unique identification number of your telephone. The telephone transmits this number to the base station every time a call is placed.

Emergency number
In addition to the general emergency number (911 for the U.S.A. and Canada), three phone numbers can be stored as emergency numbers in your telephone. You can dial these numbers and 911 even when the phone is locked.

H

Home area
The area of the home system to which you subscribe.

I

Incoming call
A call received by your telephone.

L

Lock
Prevents unauthorized calls by requiring the user to enter a code to use the phone. Even if the phone is locked, you can call any of the emergency numbers or answer incoming calls.

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M

Memory
A storage area for names and phone numbers. Also see "Phone Book."

Menu
The menu allows you to change or see the settings of your phone. You can access it from the standby display or during a call. See "List of menu items" on pages 72 and 73 for an overview of this feature.

Minute alert
This alert beeps periodically during a call to help you keep track of the length of the call.

N

NAM
Number Assignment Module. Portion of your telephone's memory programmed to contain information about your subscription to the carrier. Your telephone can have up to two NAM's.

P

Pause
You can enter pause codes in the phone number memory data. Use this feature when accessing an answering machine, voice mail system, electronic banking system, etc. When a pause is inserted between two groups of digits, the phone will pause before dialing the next set of digits, allowing you to wait until your counterpart is ready to accept the string.

Phone Book
You can store up to 99 numbers in Phone Book memory, location number 01 to number 99. An additional recent number memory (Calls List) stores the last ten used phone numbers.

R

Roam
Your phone is roaming when you use it outside of the home area. Availability of roaming access to a different carrier and types of calls you can make varies with the agreement between your home carrier and serving carrier. Check with your carrier for details about roaming in a specific area.

S

Scratch pad
Allows you to enter a number and store it in the Calls List.

Service area
Region covered by a cellular/PCS service. Also see "Coverage area."

SMS
Short Messaging Service. An extended service offered by carriers that allows you to receive text messages on your phone. Check with your carrier for details.

Speed dialing
Making a call using Phone Book memory locations. Also see "Phone Book."

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T

Touch dialing
A quick way of making a call using a number stored in a Phone Book memory location. Also see "Speed dialing."

Touch-tone
See "DTMF."

V

Voice mail
An extended service, offered by carriers, that allows you to retrieve voice mail messages stored in your voice mailbox. Check with your carrier for details.

Volume
You can adjust the volume of keybeep, ringer, and earpiece.

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