SONY

3-858-692-12(1)

Portable Cellular Telephone with Accessories

Operating Instructions

CM-H777

© 1996 by Sony Corporation

Before operating the CM-H777 Portable Cellular Telephone and its associated accessories, 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 Operation/Installation/Connections manual for the optional accessory kits.

The unit is approved for connection to a cellular radio network run by a network operator.

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 or nameplate beneath the battery. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your dealer regarding this product.

Model No.: CM-H777 Serial No.: _____

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What Your Phone Can Do

The CM-H777 is designed to meet your personal communication needs using the cellular radio telephone system, and it provides many innovative features that make it convenient and easy to use.

- **Battery Life**
  Using a fully charged battery, you can talk up to approx. 80 minutes continuously or operate in the stand-by mode for up to approx. 20 hours.

- **Backlight**
  Lights up display screen and keypads to ensure easy operation in the dark.

- **Speed Dialing**
  Access of up to 20 prestored names and telephone numbers.

- **Any Key Answer**
  An incoming call can be received by pressing any button except (PWR) (Power button).

- **Preferred Memory**
  Allows you to show a preferred number when you turn on the power.

- **One-Touch Dialing**
  Dials any of nine stored numbers with one-touch operation.

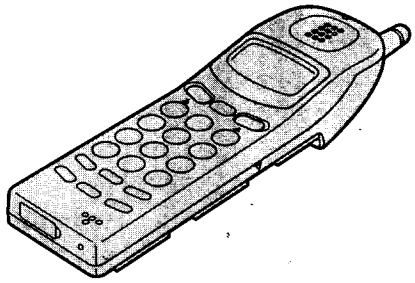
- **Auto Lock**
  Prevents your phone from being used by other persons by employing a lock code.

- **Keypad Lock**
  Locks the keypad to prevent accidental operation.

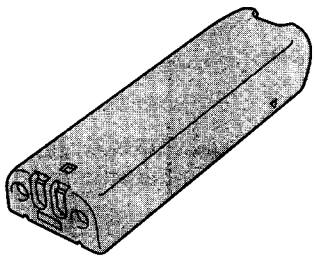
Unpacking Your Phone

Carefully unpack your portable cellular telephone and check the contents with this list.
If there is something missing, please contact your nearest Sony dealer or Sony Wireless Hotline.

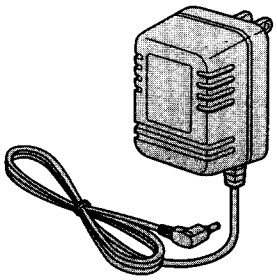
Cellular Telephone CM-H777 (1)



Ni-Cd Battery Pack QN-888BP (1)

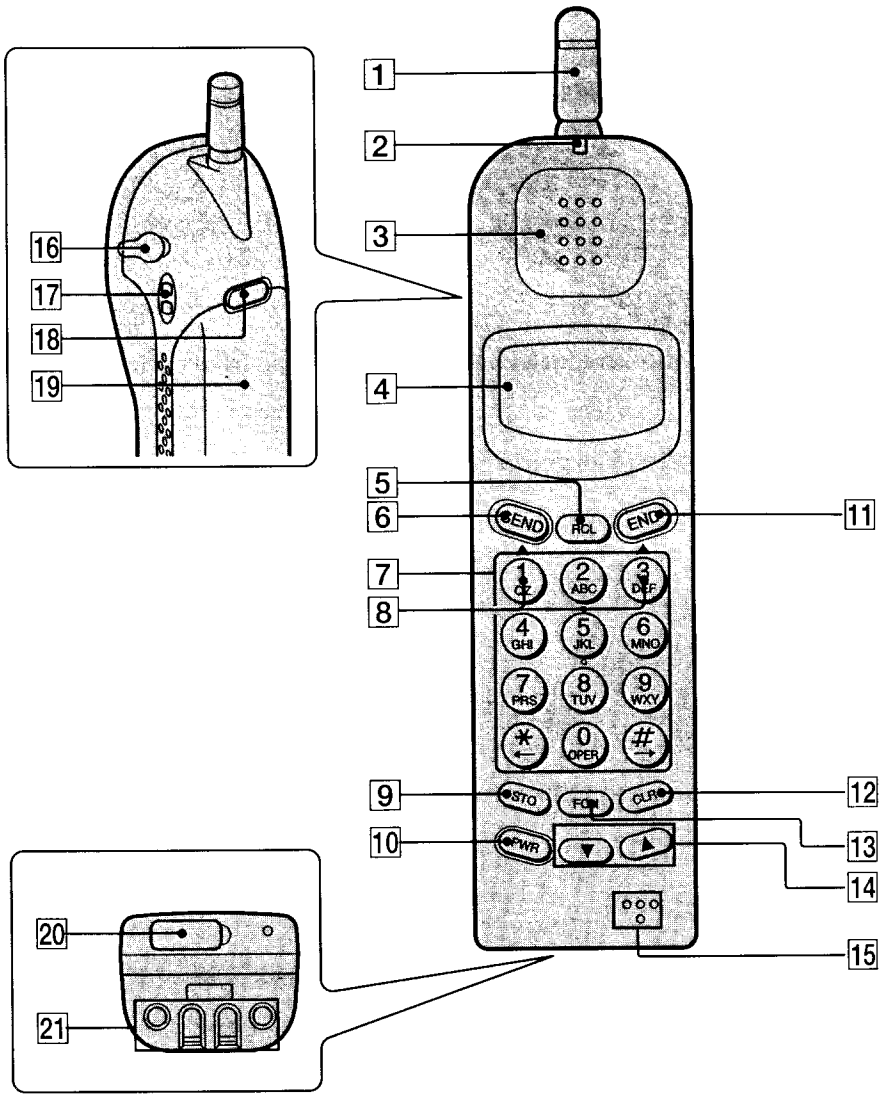


AC Adaptor QN-824AC (1)



Looking at Your Phone

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



1 **Antenna (12)**
Pull up to receive signal.

2 **Incoming indicator (16)**
Flashes when receiving a call.

3 **Speaker**

4 **Display**
Displays phone numbers, names, messages, and various indicators.

5 (RCL) **(Recall) button (11, 17, 18, 24, 25, 26)**
Recalls stored numbers and names.

6 (SEND) **button (14, 18, 20, 24, 30, 36)**
Dials the number on the display.

7 **Numbers , * and # buttons.**

8 (1 QZ) **and** (3 DEF)
Also work as soft key buttons. Their function depends on the corresponding soft key label.

9 (STO) **(Store) button (22, 23, 27, 28, 29, 35)**
Stores a phone number.

10 (PWR) **(Power) button**
Turns the telephone on and off.

11 (END) **button (14-16, 21)**
Ends calls.

12 (CLR) **(Clear) button (20, 22, 23, 27, 28, 31, 35)**
Clears the last/all digits on the display, or exits the current mode.

13 (FCN) **(Function) button (17, 29, 30, 31, 34-45)**
Enters function menu.

14 (▼) (▲) **buttons (17-19, 24-26, 31)**
Adjust settings and scroll through lists.

15 **Microphone**

16 **DC IN jack**

17 **Ringer**

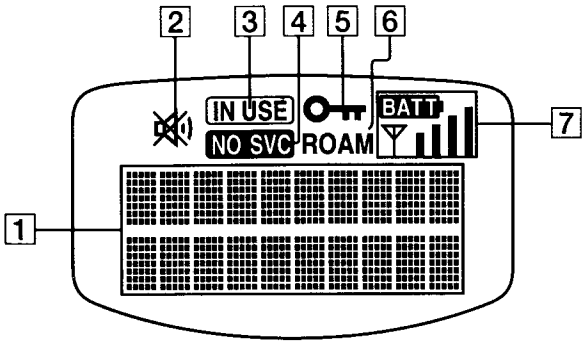
18 **Battery release button (9)**

19 **Battery pack (9-11)**

20 **Connector**
Connects to Cigarette Lighter Adaptor or Handsfree Kit.

21 **Battery charge contact**

Display



1 **Character display**
Displays up to 20 characters, 10 characters per row.

2 **(Ringer silent) icon (19)**
Lights up when the ringer volume is set to silent. Press (▲) to increase the volume.

3 **IN USE indicator**
Lights up during a call.

4 **NO SVC (No service) indicator**
Lights up when the phone is out of the service area showing that you cannot use the phone.

5 **(Lock) icon (21)**
Lights up when the keypad is locked.

6 **ROAM indicator**
Appears when you are roaming.
Blinks when you are in the opposite to system of your home system.

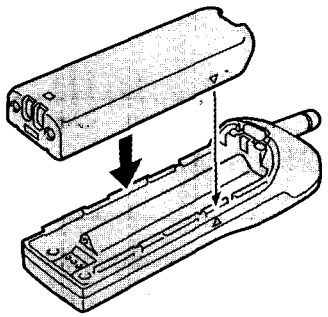
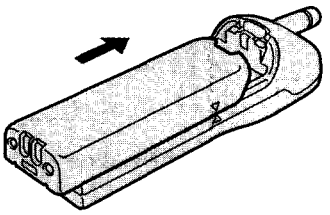
7 **BATT (Battery) / (signal) indicator (11, 12)**
Indicates battery power (when BATT is displayed) and signal strength (when is displayed). The maximum level is four bars.

Charging the Battery Pack

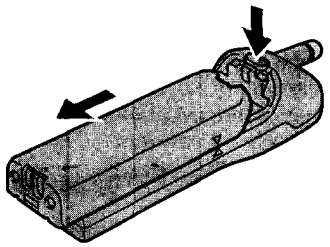
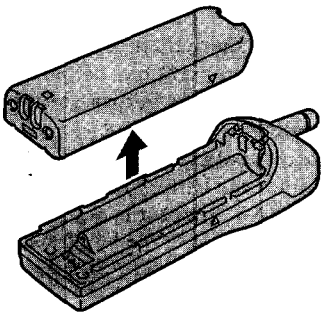
Charge the battery pack before using the phone. A new battery pack is not fully charged.

Installing / Removing the Battery Pack

To attach the battery pack

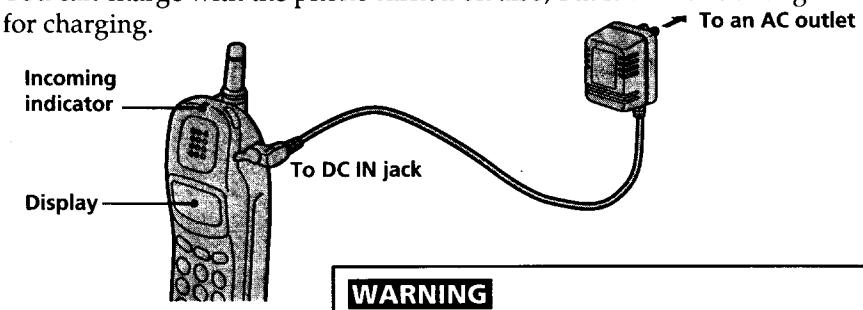
1 Align ∇ mark on the battery pack with Δ mark on the phone. 	**2** Slide the battery pack in the direction of arrow. 

To remove the battery pack

1 Slide the battery pack back to align both Δ marks while holding down the battery release button as shown. 	**2** Remove the battery pack. 

Charging the Battery

Install the battery pack before charging, then connect the AC adaptor as illustrated below.
Charging time: Approx. 8 hours
You can charge with the phone turned on also, but it will take a longer time for charging.



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

If you charge with the power turned off, the incoming indicator lights red while charging.
With the power turned on "Battery Charging" appears on the display.

Notes
- If you make or receive a call while charging the battery, the call will be cut off when the low battery alarm sounds.
- Without the battery pack, you cannot turn on the phone even if you connect the AC adaptor to an AC outlet.

Notes on charging
- When you charge the battery avoid:
  - charging for more than 24 hours (reduces battery life).
  - charging in temperatures below 32°F (0°C) or over 113°F (45°C).
  - charging the battery in direct sunlight, or in places with high humidity such as a bathroom.
- Do not use any battery other than those specified in these instructions.
- It is normal for the battery to become warm during charging or after use.
- The supplied AC Adaptor is not intended to be serviced. In the event of a malfunction, it should be replaced.

Notes on the battery
- Do not dispose of the battery in a fire or short-circuit it. Doing so may cause the battery to leak, get hot, and/or cause personal injury.
- Do not try to disassemble the battery.
- Do not fail to fully discharge the battery pack before long periods of disuse.

Checking the Battery

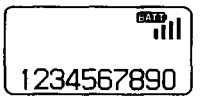
Battery duration

When the phone is:

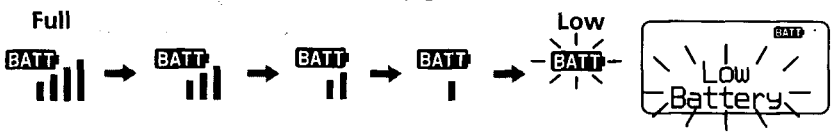
In standby mode :	Approx. 20 hours
In a continuous talk mode :	Approx. 80 minutes

Battery condition

Press and hold (RCL) to show the BATT indicator.



The BATT indicator indicates battery power as follows.



Battery alarm sounds and "Low Battery" blinks. Battery is nearly discharged.

To prolong battery life

Recharge the battery only when the battery alarm sounds.

RECYCLING NICKEL-CADMIUM BATTERIES

Ni-Cd

NICKEL CADMIUM BATTERY.
MUST BE DISPOSED OF PROPERLY.

Nickel-Cadmium batteries are recyclable. You can help preserve our environment by returning your unwanted batteries to your nearest Sony Service Center for collection, recycling or proper disposal.

Note

In some areas the disposal of nickel-cadmium batteries in household or business trash may be prohibited.

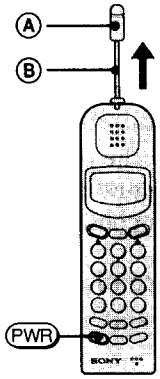
For the Sony Service Center nearest you call 1-800-222-SONY (United States only)

Cautions

Do not handle damaged or leaking nickel-cadmium batteries.

Setting Up Your Phone

Each time you use your phone, you must complete the following steps:
- Extend the antenna.
- Turn the power on.
- Check the signal strength.



Turning the Power On

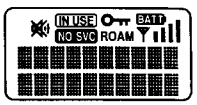
1 Hold Ⓐ and extend the antenna until it stops.

When replacing the antenna, hold Ⓑ and push it back .

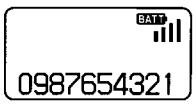
2 Press PWR for more than 1 second to turn the power on.

The wake-up tone sounds unless the ringer volume is set to silent. Then the backlight turns on for 10 seconds, and:

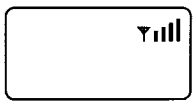
1) All the indicators light up for about 2 seconds.



2) The battery indicator appears with your own phone number or the banner (if set, see page 35).



3) The signal strength indicator appears and the phone enters standby mode.



Strong signal ⟷ Weak signal

The phone is now ready for use.

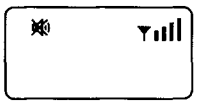
Note

NO SVC appears if the phone is out of the service area, showing that you cannot use the phone.

When a certain restriction or function is selected, the following display appears instead of the display in 3).

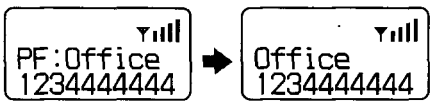
- When Auto Lock is set (see page 44), "Locked" remains until the lock mode is released.
  You can only make emergency calls (such as 911) or receive a call. To unlock the phone, enter the lock code (see page 45).

- When the ringer volume is set to "Ring Silent" (see page 19), the ringer does not sound when an incoming call arrives.



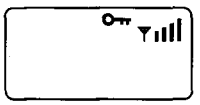
- When the banner is set (see page 35), the banner appears.

- When Pref. Memo display is set, the preferred number remains on the display until any button is pressed (see page 36).



Note

When the keypad is locked, the icon appears, and you cannot perform any operation except for receiving a call. (see page 21)
To unlock the keypad, press and hold (END) until the icon disappears.

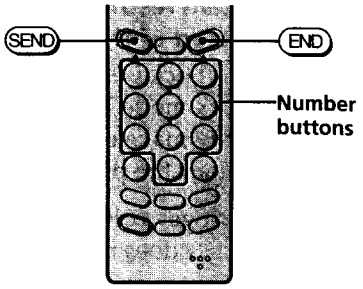


Turning the power off

Press (PWR) for more than 1 second to turn the power off.

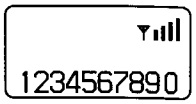
Making Calls

You can call a number up to 32 digits. Make sure the power is on and the antenna is extended. Then check the signal strength icon. Also make sure that the keypad is not locked (see page 21).



1 Enter the phone number (up to 32 digits).

(e.g. 1234567890)
The entered number appears on the display.



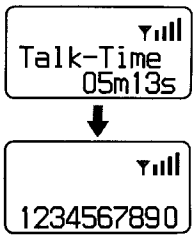
If you enter a wrong number, press CLR briefly to clear the last digit. Press END or hold CLR for more than 1 second to clear all the digits.

2 Press SEND to dial the number.

If the call goes through, the IN USE indicator lights up and the talk time appears.

3 Press END to end the call.

The IN USE indicator goes off and the number you dialed appears.



To redial

Press SEND while the number you dialed is displayed (the number is cleared when you press CLR or if you turn off the power). You can also use the Auto Redial function (page 15) or Redial memory (page 18).

Unsuccessful calls

If one of the following conditions occurs, you have failed to make a call. When the Auto Redial (see below) is set, the phone number is dialed automatically except when the line is busy.

Problem	Cause	Auto Redialing
None or only one signal strength indicator bar is displayed.	Area of poor reception. Press (END) and change to a location where the signal condition is better. In a building, move closer to a window.	Does not work
Busy tone	The line is busy. Press (END) to disconnect the line, and redial later.	Does not work
Fast busy tone	The system did not process the call. Press (END) to disconnect the line, and redial later.	Works
Alerting high-low tone	Out of service area. Press (END) and redial later.	Works

Auto Redial function

Except when the line is busy, the auto redial function tries to make the call again. You can set this function in standby mode. The default setting is Off. To enable auto redialing, see page 37.

Auto Redial display

Redialing

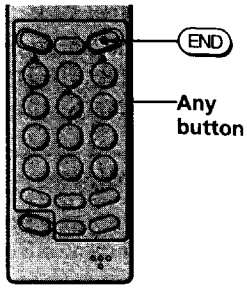
Waiting to redial

To stop auto redialing

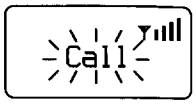
Press (END).

Receiving Calls

You can receive a call when the NO SVC indicator is not lit indicating that your phone is in the service area. You can answer a call even when the keypad is locked (see page 21).



When the ringer sounds, the incoming indicator begins flashing. "Call" blinks in the display.
If the ringer volume is set to "Ringer Silent" (see page 19), the ringer does not sound.

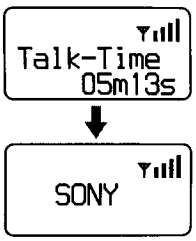


1 Press any button except (PWR) to answer the call.

The IN USE indicator lights up.

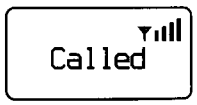
2 Press (END) to end the call.

The IN USE indicator goes off and the standby display appears. The banner appears if it has been set (see page 35).



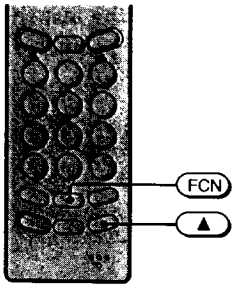
If you do not answer the call

"Called" remains on the display to inform you that there was a call until your next button operation.



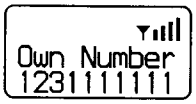
Displaying Your Own Phone Number

You can review your own phone number in standby mode or during a call.



1 Press (FCN) to enter function mode.

2 Press (▲) to display "Own Number".

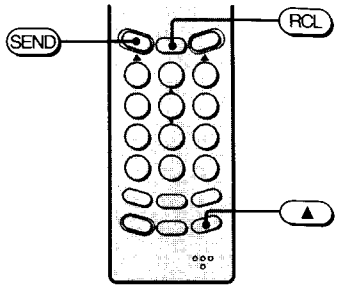


Note

You can also display your own phone number by pressing (RCL), then (#).

Redialing the Last Five Numbers Dialed

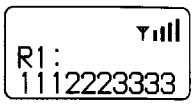
You can recall the last five numbers dialed on your phone to dial them automatically again.



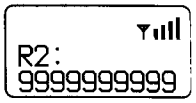
1 Press (RCL).

2 Press (▲).

The last dialed number appears.



3 Press (▲) repeatedly to scroll through the last five numbers dialed.



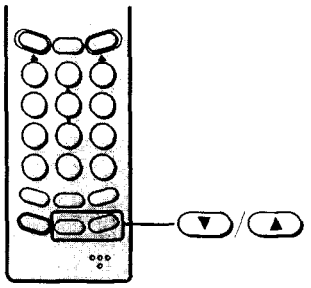
4 Press (SEND) to dial the displayed number.

Notes

- When the sixth number is stored, the oldest number is deleted.
- You can erase all the last dialed numbers together (see page 40) , but you cannot erase them separately, one by one.

Adjusting Volume

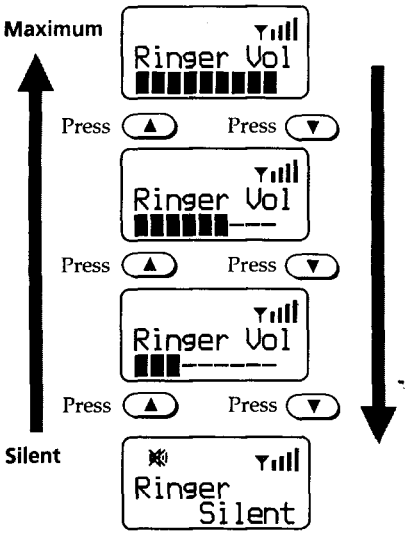
You can adjust the volume of the ringer, button tone, and speaker as desired.



Press ▲ to increase and ▼ to decrease the volume.

Ringer and Button Tone Volume (during standby mode)

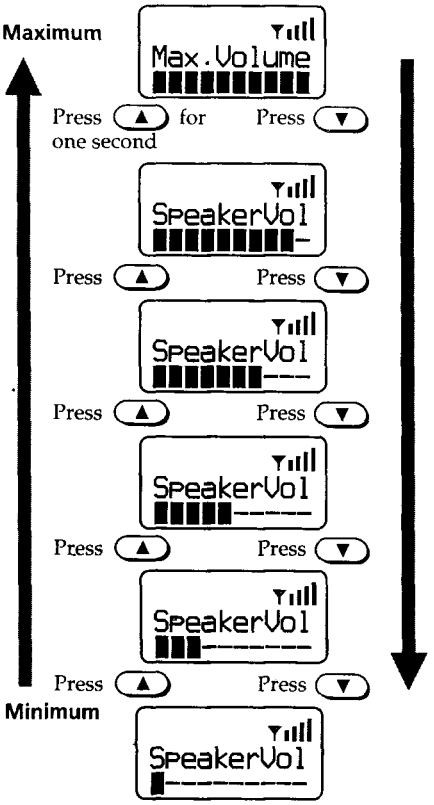
Choose one of four levels.
Each time you press ▲ or ▼, the phone rings at the current volume.



If you set the ringer to silent, the 🔇 icon and "Ringer Silent" appear first, and then, only the 🔇 icon remains.

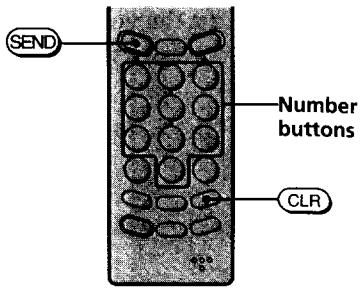
Speaker Volume (during a call)

Choose one of six levels.



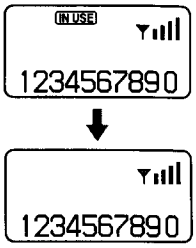
Using the Scratchpad

You can use the scratchpad to memorize a phone number during a call.



1 Enter the number you wish to remember during your call.

After you hang up, the number you entered remains on the display.
(e.g. 1234567890)



To dial the number you have memorized

Press SEND.

To store a scratchpad number into speed dialing memory

See "Storing a Number in Memory" in "Speed Dialing" (page 22) and follow the procedure from step 2.

To clear the display

Press CLR.

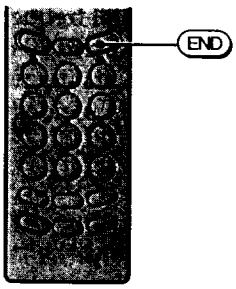
Note

If you receive a call while the phone is locked by auto lock (see page 44)

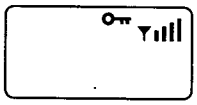
The phone automatically unlocks so that you can answer the call, and you can use the scratchpad. However, you cannot dial nor store that number.
The number remains on the display until you press any button.
After you press any button, the phone automatically locks again.

Locking the Keypad

You can lock the keypad to prevent accidental operations.
Make sure that
– "Key Lock" (page 36) is turned on.
– The phone is in standby mode.

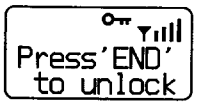


In standby mode, press and hold (END) until the O-π icon appears.



When the keypad is locked

You cannot perform any operation.
When you press a button, the following display appears.



When a call comes in, the keypad is unlocked and you can answer it.
After you end the call, the keypad is locked again.
(except when you use scratchpad during the call)

Notes

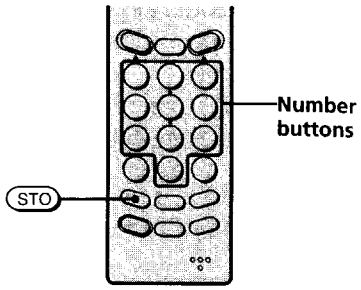
- When the keypad is locked, you cannot make emergency calls (such as 911). To make an emergency call, first unlock the keypad.
- You cannot lock the keypad during a call. If you press (END) during a call, the call will be disconnected.

To unlock the keypad

Press and hold (END) until the O-π icon disappears.

Speed Dialing

You can dial frequently used phone numbers (up to 20 numbers: 01-20) using the speed dialing function by storing the numbers in memory locations.

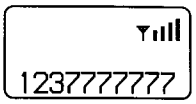


Storing a Number in Memory

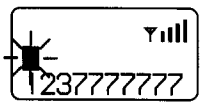
You can store a phone number (up to 32 digits and up to 10 characters) in one of the memory locations for speed dialing.
You can store an access number also, such as your access ID code or account number used in on-line telephone services.
Example: Phone number: 1237777777,
Memory location: 01, Name: SONY

1 Enter the phone number you wish to store.

If you make an error entering the phone number, press (CLR) and reenter a new digit.



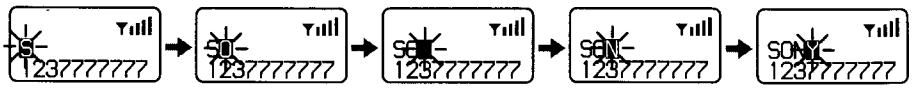
2 Press (STO).



3 Enter a name using the number buttons.

Skip to step 4 if you do not want to enter a name.
See the letter table for information on entering letters.
Press a number button until the desired letter appears.
The cursor, and the letter at its position, blink alternately.
Enter successive letters in the same way.
To enter two letters assigned to the same button, press (#) after you enter the first letter.

	P	R	S	M	N	O		M	N	W	X	Y
Press	(7 PRS)	(7 PRS)	(7 PRS)	(6 MNO)	(6 MNO)	(6 MNO)	(#)	(6 MNO)	(6 MNO)	(9 WXY)	(9 WXY)	(9 WXY).

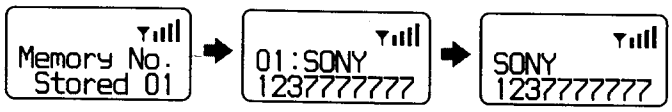


4 Press (STO).

"Memory No. Store ??" appears.

5 Enter the memory location number (01-20).

The phone beeps and the number is stored in memory.



Note

If the memory you specified is occupied by another phone number, "Overwrite?" appears when you enter the memory location number. Press (1) (Yes) to replace the old number with a new one or press (3) (No) to change the memory number.

To enter letters

Press a number button several times until the desired letter appears. Letters scroll in the following order. (*) moves the cursor one character to the left and (#) moves the cursor one character to the right.

Letter Table

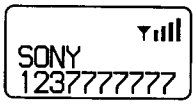
BUTTON	DISPLAY	BUTTON	DISPLAY
(1)	Q Z q z - . , ' " 1	(6)	M N O m n o 6
(2)	A B C a b c 2	(7)	P R S p r s 7
(3)	D E F d e f 3	(8)	T U V t u v 8
(4)	G H I g h i 4	(9)	W X Y w x y 9
(5)	J K L j k l 5	(0)	0

To store a number in preferred memory

Press (*) (*) in step 5.

To store in the lowest-numbered empty memory location

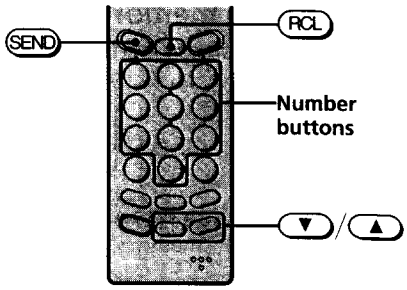
Press (STO) instead of entering a location number in step 5. The number is stored in the lowest-numbered empty memory location automatically.



Note

If 20 numbers are already stored in speed dial memory, "Memory Full" appears and then "Memory No. Store ??" appears.

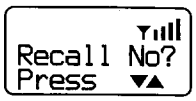
- To specify a memory location number, press that number, and press (1) (Yes) when "Overwrite ?" appears.
- To cancel the operation, press (CLR).



Dialing with the Speed Dialing Function

You can dial the prestored number or an access number with a simple procedure.
Example: Memory location number: 09

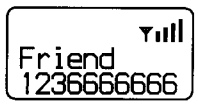
1 Press RCL.
"Recall No? Press ▼▲" appears.



2 Press 0 and 9.
The phone number stored in location number 09 appears.

If you entered the wrong location number, you can scroll through memory locations by pressing ▼ or ▲.

If you entered a location number with no stored number, "No Number Stored" appears.



3 Press SEND.
The IN USE indicator appears and the number is dialed.

To dial the preferred memory

Press RCL * * and SEND.

One-Touch Dialing

You can dial a number stored in 01-09 just by pressing and holding the corresponding number button. (Only use the first nine stored numbers from the 20 speed dialing numbers.)
To use one-touch dialing, one-touch dialing function mode must be set to "On" (see page 36).

1 Press a number button (1 to 9) for more than 1 second.

The phone dials the phone number stored in the corresponding memory location.

Note

To use one-touch dial, start from the standby display. If anything other than the banner is displayed, press and hold CLR, or press END, to erase it before doing one-touch dial.

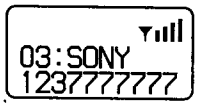
Scrolling Through Speed Dial Memory

To scroll in location number order

1 Press RCL.

2 Press ▼ or ▲.

Memory locations appear in location number order.
(The location number appears only while scrolling.)



Memory Search Order

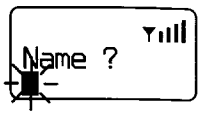
Preferred Memory (Memory location * *) appears whether or not "Prefer Mem" is on or off (see page 36).

Preferred Memory ↔ Speed Dialing Memory (01 ↔ 20) ↔ Redialing Memory (R5 ↔ R1)

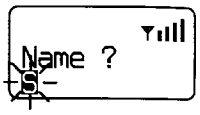
To search by entering the initial letter

1 Press (RCL).

2 Press (RCL) again.

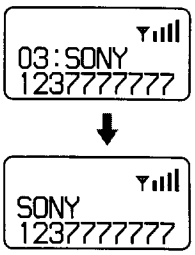


3 Enter the initial letter using the number buttons.



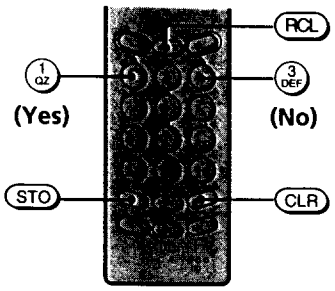
4 Press (▼) or (▲) to scroll through all memory locations with names that begin with that letter.

If there are no names that begin with that letter, "No name" appears.



For example, if you enter "S," the phone cycles through a list of all memory locations with names beginning with "S." Note that the phone distinguishes between upper and lower case letters.

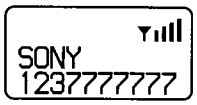
If you input	Cycling order
S	01:Sam ↔ 03:Sony ↔ 10:Simon
s	02:stadium ↔ 07:ski ↔ 12:snack



Changing a Stored Number

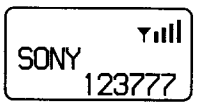
You can change a stored phone number.
Example: changing phone number from 1237777777 → 1237770000

1 Recall the location number you wish to change (Press RCL and location number or scroll, see page 24-26).

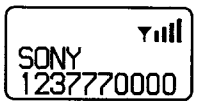


2 Press CLR to delete the digits you want to change.

Each time you press CLR, the last digit is deleted.

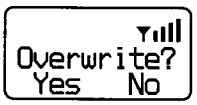


3 Enter a new phone number.



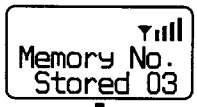
4 Press STO.

"Overwrite?" appears.

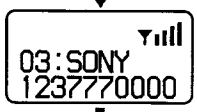


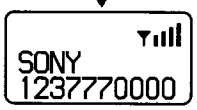
5 Press 1 (Yes) or 3 (No).

Press 1 (Yes) to overwrite.



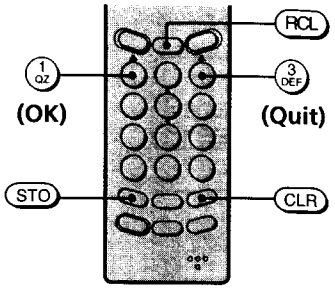
If you press 3 (No), "Memory No. Store ??" appears.
Enter a new memory location.





Notes

- You cannot change the name.
  To change the name, proceed from step 1 in "Storing a Number in Memory" on page 22, and then overwrite the number.
- If you hold CLR in step 2, the standby display returns and the number is unchanged.



Erasing a Memory Location

You can delete the contents of a memory location which you no longer need.

1 Recall the stored number you wish to delete (Press RCL and location number or scroll, see page 24-26).

SONY
1237777777

2 Press CLR repeatedly to erase the entire number.

SONY

3 Press STO.

Mem.Erase
OK Quit

4 Press 1 (OK).

The phone beeps.
The selected memory location is deleted.
Press 3 (Quit) to abort the procedure and return to step 1.

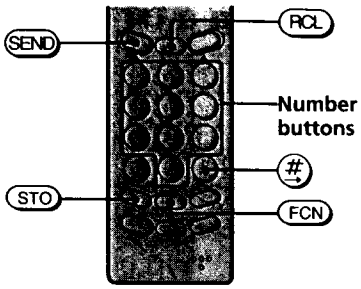
Memory
Erased

Note

If you hold CLR in step 2, the standby display returns without erasing the memory location.

Sending DTMF

You can access various on-line telephone services by sending tone signals from your phone. By storing access numbers in memory, you can easily access these services.



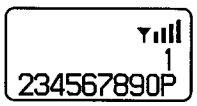
Sending a DTMF Number During a Call

Press number buttons.
DTMF signals are sent as you press the buttons.
If you hold a number button, that signal is sent until you release the number button.

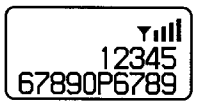
Storing a Phone Number Followed by a DTMF Number in Memory

Example: Phone number: 1234567890, DTMF number: 6789, Memory location: 12

1 Press 1 2 3 4 5 6 7 8 9 0 and hold #.
When you hold #, "P" appears, which indicates pause.



2 Press 6 7 8 and 9.



3 Press STO.

4 Enter the name and memory location number by following the procedure from step 3 in "Storing a Number in Memory" (see page 22).

Notes

- If you store only a DTMF number in memory, you need not enter a "P" (pause).
- You can store two or more pauses in a phone number, but you cannot store them adjacent to each other.

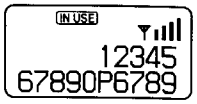
Sending a DTMF Number Stored in Memory

You can send a stored DTMF number during a call.

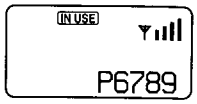
To send a phone number followed by a DTMF number in memory

Example: Memory location: 12
Phone number: 1234567890
DTMF number: 6789

1 Recall memory location number 12 (see page 24-26).



2 Press (SEND).



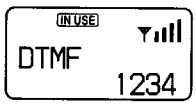
3 Press (SEND) again during the call when you are prompted to send the DTMF number.

The DTMF number is sent out.

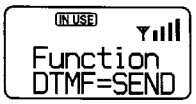
To send a DTMF number stored in memory

Example: Memory location: 02
Name: DTMF
Number: 1234

1 Press (RCL) (0) and (2) during the call.

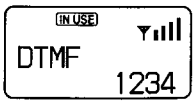


2 Press (FCN).



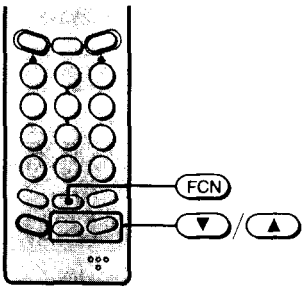
3 Press (SEND) when you are prompted to send the DTMF number.

The stored DTMF number is sent out.



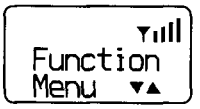
Accessing Function Mode

Use function mode to customize your phone.



Selecting a Function

1 Press (FCN) to enter function mode.



2 Press (▼) or (▲) to scroll through the menu.

Items scroll in the order shown in the chart on the next page.

3 View information or change a setting.

For details, see the explanation of the selected menu item (see the table on pages 32 and 33).

To exit from function mode

Press (CLR).

The phone returns to standby mode.

Function Table

Display Settings

Display	Description	Default	Page
Own Number 123111111	Displaying your own phone number	—	34
UpperDigit Display	Displaying upper numbers	—	34
Display Banner	Setting the banner	none	35

Phone Settings

Display	Description	Default	Page
Key Lock On Off	* Turning key lock on/off	Off**	36
Prefer Mem On Off	Turning preferred memory on/off	Off**	36
One Touch On Off	Turning one-touch dial on/off	Off**	36
AutoRedial On Off	Turning auto redial on/off	Off**	37
RingerType 1 2 3	Selecting ringer type	1**	37
Min.Alert On Off	Turning minute alert on/off	Off**	37
Back Light On Off	Turning the back light on/off (Backlight is always on regardless of this setting when the Cigarette Lighter Adaptor or Handsfree Kit is connected.)	On**	38
VOX Mode On Off	Saving battery power (VOX) (Works only if your carrier supports the VOX service.)	Off**	38
AutoAnswer On Off	Turning auto answer on/off (Appears only when the Handsfree Kit is connected.)	Off**	38

Display	Description	Default	Page
Checking the Length of Calls			
Last-Call 00m00s	Checking the talk time of the last call	—	39
RecentCall 00h00m00s	Checking the total time of recent calls	—	39
TotalCalls 00h00m00s	Checking the total time of all calls	—	39
Clearing Memories			
All Memory Erase	* Erasing all of the speed dial memory	—	40
RedialMem. All Erase	* Erasing the last dialed numbers	—	40
User Setup All Clear	* Clearing user setup	—	41
RecentCall Clear	* Clearing recent call timer	—	41

Display	Description	Default	Page
System Settings			
System Selection	* Selecting an A/B system mode	Std**	42
NAM Select NAM1 NAM2	* Selecting the dual NAM	NAM1**	43
Locking Your Phone Automatically			
Auto Lock On Off	* Locking Your Phone Automatically	Off**	44
Changing the Lock Code			
Lock Code Change	* Changing the Lock Code	1234	45

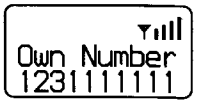
* Does not appear during a call.
** To restore these settings, use the "User Setup All Clear" menu item.

Display Settings

• Displaying your own phone number

Your own phone number appears. (Also see page 17.)

1 Press (FCN) and (▼)/(▲) to select "Own Number."

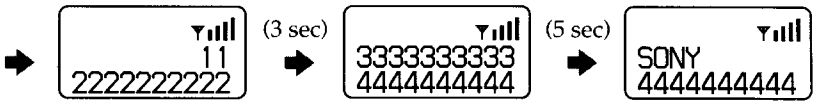


• Displaying upper numbers

Only the last 10 digits can be displayed when the phone number is made up of more than 10 digits. You can display the upper hidden numbers.

1 Press (FCN) and (▼)/(▲) to select "UpperDigit Display."

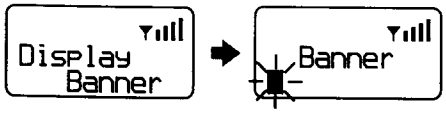
The upper digits are displayed.
If the phone number has more than 20 digits, the upper digits are separated into two displays.



• Setting the banner

If you set the banner, it appears on the standby display.

1 Press (FCN) and (▼)/(▲) to select "Display Banner."



2 Use the number buttons to enter the banner. (Example: "SONY")

If there is already a banner in memory, press and hold (CLR) to erase the current banner and then reenter the banner.

3 Press (STO).

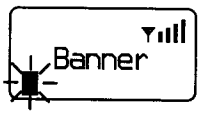
4 Press (1) (OK).

• Erasing the banner

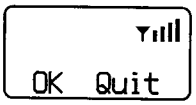
If you do not want to display the banner, erase it.

1 Press (FCN) and (▼)/(▲) to select "Display Banner."

2 Press and hold (CLR) to erase the current banner.



3 Press (STO).



4 Press (1) (OK).

Note

If you press (3) (Quit) instead of (1) (OK), you return to the previous setting.

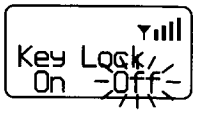
Phone Settings

• Turning key lock on/off

If you turn key lock on, you can use the keypad lock described on page 21.

1 Press (FCN) and (▼)/(▲) to select "Key Lock."

The current setting flashes.



2 Press (1) (On) or (3) (Off).

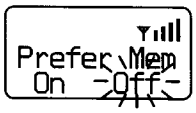
The phone beeps and the previous display returns.

• Turning preferred memory on/off

If you turn preferred memory on, the number (and name) stored in memory location (*) (*) (see pages 13, 23) appears every time you turn on the power.
When the number is displayed, you can dial it by pressing (SEND).

1 Press (FCN) and (▼)/(▲) to select "Prefer Mem."

The current setting flashes.



2 Press (1) (On) or (3) (Off).

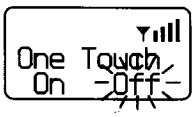
The phone beeps and the previous display returns.

• Turning one-touch dial on/off

If you turn one-touch dial on, you can dial a number by pressing one button (see page 25).

1 Press (FCN) and (▼)/(▲) to select "One Touch."

The current setting flashes.



2 Press (1) (On) or (3) (Off).

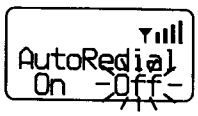
The phone beeps and the previous display returns.

• Turning auto redial on/off

If you turn auto redial on, the phone redials most calls that do not go through, as described on page 15.

1 Press (FCN) and (▼)/(▲) to select "AutoRedial."

The current setting flashes.



2 Press (1) (On) or (3) (Off).

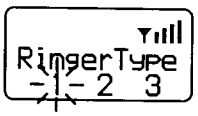
The phone beeps and the previous display returns.

• Selecting ringer type

Select one of three ringer types.

1 Press (FCN) and (▼)/(▲) to select "RingerType."

The current setting flashes.



2 Press (1), (2), or (3) to select the corresponding ringer type.

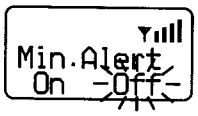
The ringer rings once when you select it.

• Turning minute alert on/off

If you turn the minute alert on, it sounds every minute during conversation.

1 Press (FCN) and (▼)/(▲) to select "Min.Alert."

The current setting flashes.



2 Press (1) (On) or (3) (Off).

The phone beeps and the previous display returns.

• Turning the back light on/off

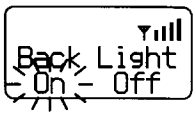
If you turn the back light on, the screen and buttons light up for 10 seconds after pressing any button.

Note

If the phone is connected to the Cigarette Lighter Adaptor or Handsfree Kit, the backlight is always on regardless of this setting.

1 Press (FCN) and (▼)/(▲) to select "Back Light."

The current setting flashes.



2 Press (1) (On) or (3) (Off).

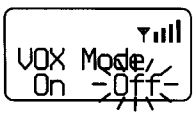
The phone beeps and the previous display returns.

• Saving battery power (VOX)

If you turn VOX (Voice Operated Transmission) mode on, it prolongs battery life by activating transmission power only when you are speaking.
The "VOX Mode" display only works if your carrier supports this service.

1 Press (FCN) and (▼)/(▲) to select "VOX Mode."

The current setting flashes.



2 Press (1) (On) or (3) (Off).

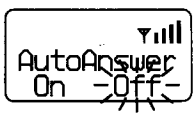
The phone beeps and the previous display returns.

• Turning auto answer on/off

If you turn auto answer on, it answers a call after two rings. This item is only available when the phone is connected to the QN-888HFK Handsfree Kit (not supplied).

1 Press (FCN) and (▼)/(▲) to select "AutoAnswer."

The current setting flashes.



2 Press (1) (On) or (3) (Off).

The phone beeps and the previous display returns.

Checking the Length of Calls

• Checking the talk time of the last call

1 Press (FCN) and (▼)/(▲) to select "Last-Call."

```
Last-Call
  00m00s
```

Note

When the talk time exceeds an hour, the counter is reset to 00m00s and starts counting again.

• Checking the total time of recent calls

You can check the total time of the currently selected NAM. You can reset the "Recent Call" timer (see page 41).

1 Press (FCN) and (▼)/(▲) to select "RecentCall."

```
RecentCall
 00h00m00s
```

• Checking the total time of all calls

You can check the total call time of both NAMs. You cannot reset the "TotalCalls" timer.

1 Press (FCN) and (▼)/(▲) to select "TotalCalls."

```
TotalCalls
 00h00m00s
```

Clearing Memories (not available during a call)

You need the lock code to use these functions. The default lock code is 1234, but you can change the lock code (see page 45).

Note

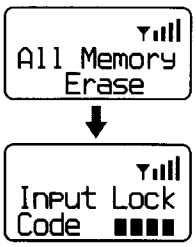
If you input the wrong lock code, "Lock Code Incorrect" appears and the operation is canceled.

• Erasing all speed dial memory

Use this feature to erase all speed dial memory, including the preferred memory.

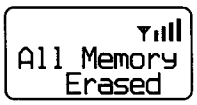
1 Press (FCN) and (▼)/(▲) to select "All Memory Erase."

"Input Lock Code" appears.



2 Input the lock code.

"All Memory Erased" appears and then the previous display returns.

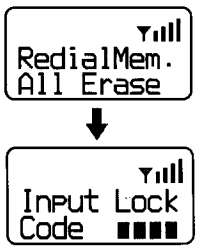


• Erasing the last dialed numbers

Use this feature to erase the last five numbers (see page 18).

1 Press (FCN) and (▼)/(▲) to select "RedialMem. All Erase."

"Input Lock Code" appears.



2 Input the lock code.

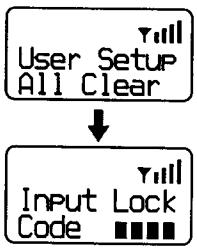
"RedialMem. All Erased" appears and then the previous display returns.

• Clearing user setup

Use this feature to restore user settings to default settings (see pages 33-34).

1 Press (FCN) and (▼)/(▲) to select "User Setup All Clear."

"Input Lock Code" appears.



2 Input the lock code.

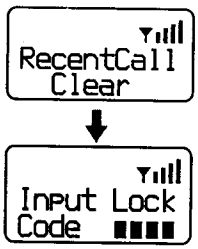
"User Setup All Cleared" appears and then the previous display returns.

• Clearing recent call timer

Use this feature to reset the recent call timer (see page 39).

1 Press (FCN) and (▼)/(▲) to select "RecentCall Clear."

"Input Lock Code" appears.



2 Input the lock code.

"Recent Call Cleared" appears and then the previous display returns.

System Settings (not available during a call)

• Selecting an A/B system mode

Each cellular service area has two service providers (carriers). One is the A carrier and the other is the B carrier. If your carrier does not provide coverage in your area in, your phone searches for another carrier. You can control the order in which your phone searches for a system by using the system selection feature. When you are in your "home" service area, **ROAM** *remains off. When you are out of your "home" service area,* **ROAM** *appears. If* **ROAM** *is steady, you are operating the phone outside of your home area, but you are in the same type of system as your home system (A or B). If* **ROAM** *is blinking, you are in the opposite system. Airtime charges are normally higher when roaming (placing a local call while roaming usually requires dialing the area code as well as the seven-digit number). You can select one of four settings.*

Std. (standard): If your carrier is an A system carrier, your phone searches the A system first (in your home area and when roaming), then searches the B system. If your carrier is a B system carrier, your phone searches the B system first (in your home area and when roaming), then searches the A system.

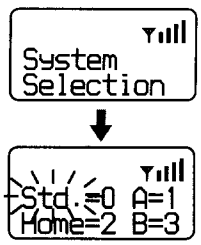
A (A only): Only searches the A system.

B (B only): Only searches the B system.

Home (Home only): Only searches for your home system. This mode prevents roaming.

1 Press (FCN) and (▼)/(▲) to select "System Selection."

The current setting flashes.



2 Press a number button to select a system.

0 = Standard
1 = A system only
2 = Home only
3 = B system only

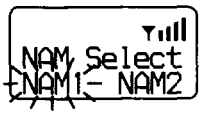
The phone beeps and the standby display returns.

• Selecting the dual NAM

Your phone has two NAM's (Number Assignment Modules). You can register two different cellular systems, allowing you to switch between the two NAM's.

1 Press (FCN) and (▼)/(▲) to select "NAM Select."

The current setting flashes.



2 Press (1) or (3) to select NAM 1 or NAM 2.

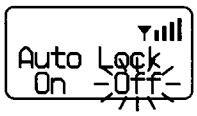
If you change the NAM, the phone restarts and the displays appear as in "Turning the power on" on page 12.

Locking Your Phone Automatically (not available during a call)

You can lock your phone to prevent it from being used by other persons. If you set the auto lock, each time the power turns on you need to enter the lock code (see page 13).

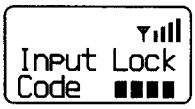
1 Press (FCN) and (▼)/(▲) to select "Auto Lock."

The current setting flashes.



2 Press (1) (On) or (3) (Off).

"Input Lock Code" appears.



3 Input the lock code.

"Auto Lock Mode Set" appears and then the previous display returns.
If you enter the wrong lock code, "Lock Code Incorrect" appears.

Changing the Lock Code (not available during a call)

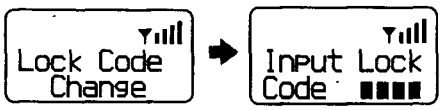
The default lock code is 1234. Change the lock code to any 4-digit number you will remember easily.

You need the lock code to use the following functions:

- Erasing all of the speed dial memory (page 40)
- Erasing the last dialed numbers (page 40)
- Clearing user setup (page 41)
- Clearing recent call timer (page 41)
- Locking your phone automatically (page 44)
- Changing the lock code (page 45)

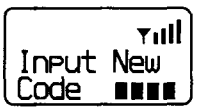
1 Press (FCN) and (▼)/(▲) to select "Lock Code Change."

"Input Lock Code" appears.



2 Enter the current lock code.

If you enter the wrong lock code, "Lock Code Incorrect" appears.



3 Enter a new lock code.

"Lock Code Changed" appears and the previous display returns.

Note

Keep a written record of your lock code.
If you forget your lock code, please contact the Sony Wireless Hotline (see page 53).

Rules and Regulations

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

Furthermore, you should remember that your cellular phone 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 this "Rules, Regulations, and Precautions" section does not constitute legal advice; and is intended merely for general information purposes. If you have any specific questions, please contact your Cellular Carrier (System Operator).

License

If your home system is in the U.S., you do not require a separate license to operate your cellular radiotelephone; obtaining a cellular 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 cellular phone on both sides of the border, please contact your Cellular Carrier (System Operator)).

Denial of Service

A cellular carrier may deny service temporarily or terminate service for violation of any government regulations or 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 cellular radiotelephones 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 cellular telephone calls.

Interference

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

Equipment Modifications

The U.S. Federal Communications Commision has type-accepted the model of cellular radiotelephone which you have purchased, and has allocated a specific frequency range for cellular service.
No changes or adjustments are to be made to your cellular phone.

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

Safety Precautions

IMPORTANT
READ THIS INFORMATION BEFORE USING YOUR HAND-HELD PORTABLE CELLULAR TELEPHONE

First introduced in 1984, the hand-held portable cellular telephone is one of the most exciting and innovative electronic products ever developed. With it you can stay in contact with your office, your home, emergency services, and others.

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

Your cellular telephone is a radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) energy. The phone operates in the frequency range of 824 MHz to 894 MHz and employs commonly used frequency modulation (FM) techniques. When you use your phone, the cellular system handling your call controls the power level at which your phone transmits. The power level can range from 0.006 of a watt to 0.6 of a watt.

Exposure to Radio Frequency Energy

In 1991 the Institute of Electrical and Electronics Engineers (IEEE), and in 1992 the American National Standards Insitute (ANSI) 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, after reviewing the available body of research, 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 extendible antenna. Extend it fully whenever possible.

Your phone operates more efficiently with the antenna fully extended.

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 a qualified service center for repair.
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 cellular telephones in the areas where you drive. Always obey them. Also, when using your phone while driving, please:

- give full attention to driving,
- use hands-free operation, if available, and
- 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 cellular telephones may affect inadequately shielded 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.
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.
Turn your phone OFF in health care facilities when any 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 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 cellular 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.

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 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, MA02269, Attn: Publication Sales Division.

Specifications

Signaling format	Complies with EIA specifications
Frequency range	Transmit: 824.040 to 848.970 MHz Receive: 869.040 to 893.970 MHz
Channel spacing	30 kHz
Number of channels	832
Frequency stability	±2.5 ppm at –22°F to +140°F (–30°C to +60°C)
RF output power	0.6 W
Power control	4 dB step down from 0.6 W
Power requirement	4.8 V DC
Battery life	Approx. 80 minutes (continuous call) Approx. 20 hours (continuous standby)
Operating temperature	–22°F to +140°F (–30°C to +60°C) (excluding battery pack and display)
Battery pack charging temperature	+50°F to +104°F (+10°C to +40°C)
Dimensions	$5\,^{7}/_{8} \times 1\,^{9}/_{16} \times 1\,^{1}/_{4}$ inches (W/H/D) (not including antenna) (40 × 150 × 31.5 mm)
Mass	Approx. 7.6 oz. (215 g) (including battery)
Supplied accessories	Ni-Cd Battery Pack QN-888BP (1) AC Adaptor QN-824AC (1)
Optional accessories	Ni-Cd Battery Pack QN-888BP Ni-MH Battery Pack QN-889BP Hi-Cap Ni-Cd Battery Pack QN-890BP Cigarette Lighter Adaptor QN-333CC Handsfree Kit QN-888HFK Rapid Battery Charger QN-888BC Desktop Charger QN-884BC Carrying Case QN-888LC

Design and specifications are subject to change without notice.

If You Have a Problem

Should any problem occur with your portable cellular telephone, use the following checklist to determine whether servicing is required. If the problem persists after you have made these checks, consult your nearest Sony Cellular Telephone dealer.

Problem	Cause/Remedy
The unit does not operate.	- Battery is not charged enough. - Battery is not installed correctly.
The phone call does not connect.	- You dialed a wrong number. - You did not press (SEND). - System is busy. - The signal strength is not sufficient. - Your phone is not registered on the network.
Cannot operate any buttons.	- Keypad lock may be on.
Cannot make emergency calls (such as 911).	- Keypad lock may be on. - Auto lock may be on. You can make an emergency call even when "Locked" is displayed, but you cannot make an emergency call if any key has been entered before entering the emergency number. In this case, press (CLR) and check if "Locked ■■■■" is displayed, and then enter the emergency number again.
Forgot lock code.	- Contact the Sony Wireless Hotline (see the next page).

About the Beep Sound

When you press a button other than (PWR), a beep sounds to let you know whether or not your operation is accepted. The beep does not sound when the ringer volume is set to silent.

Tone/Beep Patterns	Means
A long tone	Programming successful
Three rapid tones	Programming error
A beep	Button operation
A low beep	Invalid button operation

Sony Wireless Hotline Number (USA only)

If you have any question or comments, please call:
SONY WIRELESS HOTLINE
1-800-578-SONY (7669)

Summary of Operation

(X): Number key

scroll: Press (▼) and (▲) to scroll until the desired item appears.

Making and Receiving a Call

Keypad dialing	Phone number + (SEND)	(Page 14)
One-touch dialing	Press and hold (X)	(Page 25)
Speed dialing	(RCL) + location number + (SEND)	(Page 24)
Redialing	(SEND) while a phone number is displayed, or (RCL) + (▲) + (SEND)	(Page 14, 18)
Receiving a call	Any button except (PWR)	(Page 16)
Ending a call	(END)	(Page 14)

Recalling a Number

Recalling own phone number	(FCN) + (▲) or (RCL) + (#)	(Page 17)
Recalling a memory location	• Searching (location number order): (RCL) + **scroll** ((▼))	(Page 25)
	• Searching by name: (RCL) + (RCL) + initial letter + **scroll**	(Page 26)
	• Directly: (RCL) + location number	(Page 24)
Reviewing last dialed numbers	(RCL) + **scroll** ((▲))	(Page 18)
Reviewing preferred memory	(RCL) + (*) (*) or (RCL) + (▼)	(Page 24)
Reviewing upper numbers	(FCN) + **scroll**	(Page 34)

Storing a Number in Memory

Speed dialing	Phone number + (STO) + (Name) + (STO) + location number	(Page 22)
Preferred memory	Phone number + (STO) + (Name) + (STO) + (*) (*)	(Page 23)

Erasing a Memory Location

Speed dial memory	Recall phone number + press (CLR) repeatedly to erase phone number + (STO) + (1 az) (OK)	(Page 28)
All memory	(FCN) + **scroll** + Lock code	(Page 40)
All last dialed numbers (redial memory)	(FCN) + **scroll** + Lock code	(Page 40)
Preferred memory	Recall preferred memory + press (CLR) repeatedly to erase phone number + (STO) + (1 az) (OK)	(Page 28)

DTMF Transmission from Memory

Speed dialing (with stored phone number and DTMF)	(To dial) (RCL) + location number + (SEND) (and then during the call) (SEND)	(Page 30)
(with stored DTMF only)	(during a call) (RCL) + location number + (FCN) + (SEND)	(Page 30)

Volume Adjustment

Speaker (during a call)	(▼) or (▲)	(Page 19)
Ringer and key tone (in standby mode)	(▼) or (▲)	(Page 19)

Call Timers

Minute alert	(FCN) + **scroll** + (1 az) (on) or (3 DEF) (off)	(Page 37)
Last call	(FCN) + **scroll**	(Page 39)
Total calls	(FCN) + **scroll**	(Page 39)
Recent calls	(FCN) + **scroll**	(Page 39)
Resetting the recent call timer	(FCN) + **scroll** + Lock code	(Page 41)

General Functions

Clearing the last digit	CLR	(Page 7)
Setting the banner	FCN + scroll + banner + STO + 1 (OK)	(Page 35)
Key lock	Turning on/off: FCN + scroll + 1 (on) or 3 (off) Locking/unlocking the keypad: Press and hold END	(Page 44) (Page 21)
Preferred memory	FCN + scroll + 1 (on) or 3 (off)	(Page 36)
One-Touch dialing	FCN + scroll + 1 (on) or 3 (off)	(Page 36)
Auto redialing	FCN + scroll + 1 (on) or 3 (off)	(Page 37)
Ringer type	FCN + scroll + 1, 2 or 3	(Page 37)
Back light	FCN + scroll + 1 (on) or 3 (off)	(Page 38)
VOX (if network available)	FCN + scroll + 1 (on) or 3 (off)	(Page 38)
Auto answer	FCN + scroll + 1 (on) or 3 (off)	(Page 38)
Clearing all set up	FCN + scroll + Lock code	(Page 41)
Selecting A/B system	FCN + scroll + 0 (standard), 1 (A), 2 (home), or 3 (B)	(Page 42)
Selecting NAM	FCN + scroll + 1 (NAM 1) or 3 (NAM 2)	(Page 43)
Auto lock	FCN + scroll + 1 (on) or 3 (off) + Lock code	(Page 44)
Lock code change	FCN + scroll + Lock code + new Lock code	(Page 45)

SONY

Quick Reference CM-H777

[scroll] : Press (▼) or (▲) to scroll
(X)(X): Number buttons for memory location

Making a Call	Phone number + (SEND)
Receiving a Call	Press any key except (PWR)
Redialing	(RCL) + [scroll] ((▲)) + (SEND)
Ending a Call	(END)
Speed Dialing	
Storing	Phone number + (STO) + (Name) + (STO) + (X)(X)
Searching	•location number order: (RCL) + [scroll] ((▼)) •by name: (RCL) + (RCL) + initial letter + [scroll] •directly: (RCL) + (X)(X)
Dialing	(RCL) + (X)(X) + (SEND)

SONY

Quick Reference CM-H777

[scroll] : Press (▼) or (▲) to scroll
(X)(X): Number buttons for memory location

Making a Call	Phone number + (SEND)
Receiving a Call	Press any key except (PWR)
Redialing	(RCL) + [scroll] ((▲)) + (SEND)
Ending a Call	(END)
Speed Dialing	
Storing	Phone number + (STO) + (Name) + (STO) + (X)(X)
Searching	•location number order: (RCL) + [scroll] ((▼)) •by name: (RCL) + (RCL) + initial letter + [scroll] •directly: (RCL) + (X)(X)
Dialing	(RCL) + (X)(X) + (SEND)

Note Cut along the dotted line. We have given you one spare.

Volume Adjustment	
Speaker (during a call)	(▼) or (▲)
Ringer and key tone (in standby mode)	(▼) or (▲)
Scratchpad	Enter the number during the call
Recalling own phone number	(FCN) + (▲) or + (RCL) + (#)
Key lock	• Turning on/off : (FCN) + [scroll] + (1) (On) or (3) (Off) • Locking/unlocking key pad : Press and hold (END)
Auto lock	(FCN) + [scroll] + (1) (on) or (3) (off) + Lock code
Sending DTMF from memory	
with stored phone number and DTMF	(To dial) (RCL) + (X)(X) + (SEND) (and then during the call) (SEND)
with stored DTMF only	(during a call) (RCL) + (X)(X) + (FCN) + (SEND)
Selecting A/B System	(FCN) + [scroll] + (0) (standard), (1) (A), (2) (home), or (3) (B)
Selecting NAM	(FCN) + [scroll] + (1) (NAM 1) or (3)(NAM 2)

Volume Adjustment	
Speaker (during a call)	(▼) or (▲)
Ringer and key tone (in standby mode)	(▼) or (▲)
Scratchpad	Enter the number during the call
Recalling own phone number	(FCN) + (▲) or + (RCL) + (#)
Key lock	• Turning on/off : (FCN) + [scroll] + (1) (On) or (3) (Off) • Locking/unlocking key pad : Press and hold (END)
Auto lock	(FCN) + [scroll] + (1) (on) or (3) (off) + Lock code
Sending DTMF from memory	
with stored phone number and DTMF	(To dial) (RCL) + (X)(X) + (SEND) (and then during the call) (SEND)
with stored DTMF only	(during a call) (RCL) + (X)(X) + (FCN) + (SEND)
Selecting A/B System	(FCN) + [scroll] + (0) (standard), (1) (A), (2) (home), or (3) (B)
Selecting NAM	(FCN) + [scroll] + (1) (NAM 1) or (3)(NAM 2)

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