

Clear***Scan***²⁵
Automatic Channel Selection

Cordless Telephone

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

The table of contents is located on page 7.

Manual de instrucciones

Antes de utilizar la unidad, lea detenidamente este manual de instrucciones, y consérvelo para futuras referencias.

El índice se encuentra en la página 43.

ID TelephoneTM
SPP-ID200

Owner's Record

The model and the serial numbers are located at the bottom of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. SPP-ID200 Serial No. _____

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
9. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
11. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified service personnel when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.

(continued)

12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - E. If the product has been dropped or the cabinet has been damaged.
 - F. If the product exhibits a distinct change in performance.
13. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
14. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION: TO REDUCE THE RISK OF FIRE OR INJURY TO PERSONS BY BATTERY, READ AND FOLLOW THESE INSTRUCTIONS.

1. Use only the following type and size battery pack: SONY BP-T40.
2. Do not dispose of the battery pack in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the battery pack. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling battery in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
5. Charge the battery pack provided with or identified for use with this product only in accordance with the instructions and limitations specified in the instruction manual provided for this product.
6. Observe proper polarity orientation between the battery pack and battery charger.
7. Do not mix old and new batteries in this product.
8. Do not mix batteries of different sizes or from different manufacturers in this product.

INFORMATION FOR GENERAL TELEPHONES

1. This equipment complies with Part 68 of the FCC rules. On the bottom of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.
2. The applicable registration jack (connector) USOC-RJ11C is used for this equipment.
3. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant.
The FCC compliant telephone cord and modular plug is provided with this equipment.
4. The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
5. If your equipment (SPP-ID200) causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
6. The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
7. If trouble is experienced with this equipment (SPP-ID200), for repair or warranty information, please contact Sony Direct Response Center: Tel 1-800-222-7669. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.
8. All repairs will be performed in an authorized Sony service station.
9. This equipment cannot be used to party lines or coin lines.
10. This equipment is hearing aid compatible.

If your telephone is equipped with automatic dialers

When programming emergency numbers and (or) making test calls to emergency numbers:

1. Remain on the line and briefly explain to the dispatcher the reason for the call.
2. Perform such activities in the off-peak hours, such as early morning or late evenings.

Caution

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

RECYCLING SEALED LEAD BATTERIES



Pb

**SEALED LEAD BATTERY.
MUST BE DISPOSED OF PROPERLY.**

Sealed lead acid 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 sealed lead acid batteries in household or business trash may be prohibited.

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

Caution: Do not handle damaged or leaking sealed lead acid batteries.

"Warning: This telephone operates as a radio transmitter. Conversations over this cordless telephone may be heard by others on radios within the area of its range of transmission."

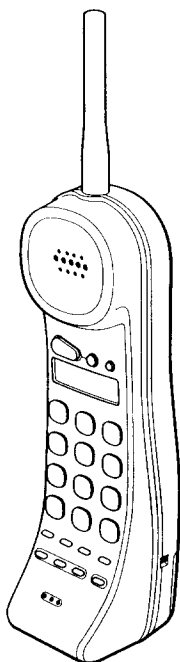
Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

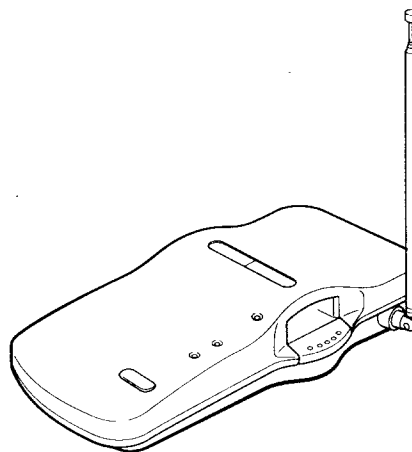
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Checking the package contents

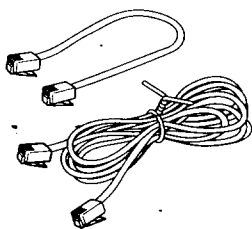
Make sure the following items are included in the package. If anything is missing, contact your local Sony dealer.



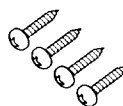
Handset



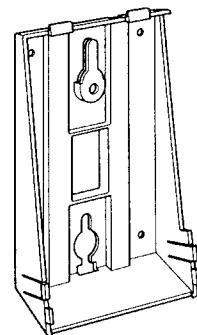
Base unit



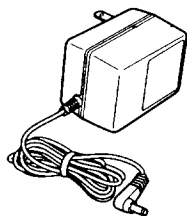
Telephone line cords (2)



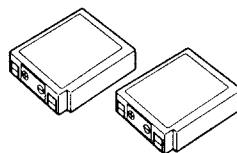
Screws (4)



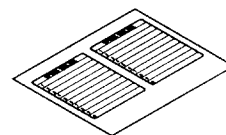
Wall bracket for base unit



AC power adaptor (AC-T37)



Rechargeable battery packs BP-T40 (2)



Directories (2)

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Operating the phone

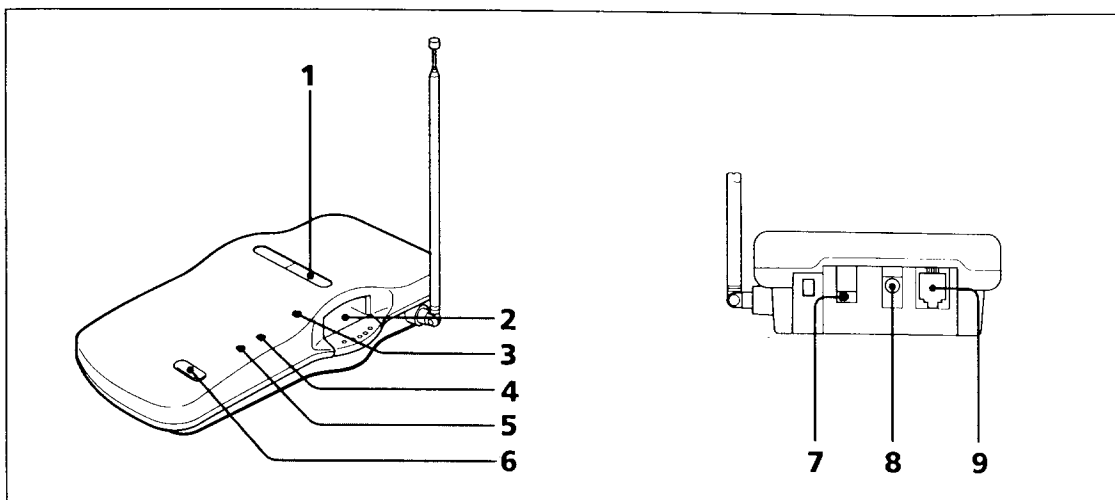
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Before operating the phone

Identifying the parts



1 Window

Shows if the battery is in the charging compartment.

2 Charging compartment

Used for charging the supplied battery packs.

3 CHARGE lamp

Lights while the battery is being charged.

4 POWER lamp

Lights when power is supplied to the base unit.

5 LINE lamp

Lights when the telephone line is engaged.

6 PAGE button

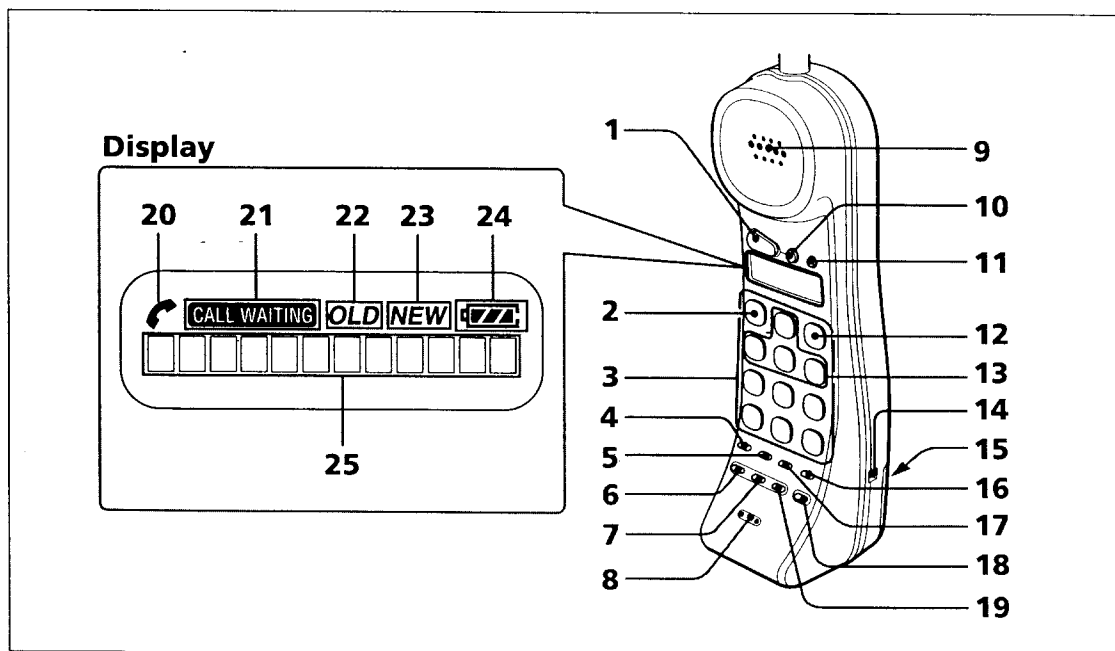
Allows you to call the handset.

7 DIAL MODE switch

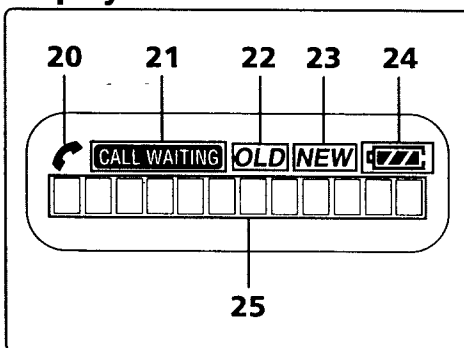
Selects pulse or tone dialing.

8 DC IN 9V jack

9 TEL (telephone) LINE jack



Display



1 TALK/DIAL button

Lets you make or receive a call.

2 NAME↔TEL button

Alternates the caller's name and phone number on the display when the Caller ID service including caller name service is in use.

3 Dialing keys

4 PAUSE button

Inserts a pause in the dialing sequence.

5 PGM (program) button

Stores phone numbers in the speed dialing.

6 SPEED DIAL button

Accesses the handset's speed dialing numbers.

7 REDIAL button

Redials the last number called.

8 Microphone

9 Speaker

10 OFF button

Allows you to disconnect the call.

11 CALLER ID button

Allows you to use the Caller ID functions.

12 TIME/DAY button

Shows the time and day of a received call when the Caller ID service is in use. (This time/day information is sent by the Caller ID service.)

13 Scroll keys

Scrolls the information on the display.

14 RING ON/BATT SAVE switch

Set to RING ON to turn the ringer on.
Set to BATT SAVE to turn the ringer off and conserve battery power.

15 Battery compartment

16 MUTE button

Mutes your voice for privacy. You can hear the other party but the other party cannot hear you.

17 CHANNEL button

Allows you to change channels if interference occurs.

18 BATT CHECK button

Checks the remaining battery power.

19 FLASH/CALL WAITING button

Switches to a second call if you have "call waiting" service, or lets you make a new call.

Display

20 Handset indicator

Lights to indicate that the handset is ready for dialing or is engaged in conversation.

21 CALL WAITING indicator

Lights when the Caller ID with call waiting service is in use.

22 OLD indicator

Indicates the displayed caller's name (or phone number) in the Caller ID list is already checked.

23 NEW indicator

Indicates the displayed caller's name (or phone number) in the Caller ID list is not yet checked.

24 Battery indicator

Indicates the remaining battery power.

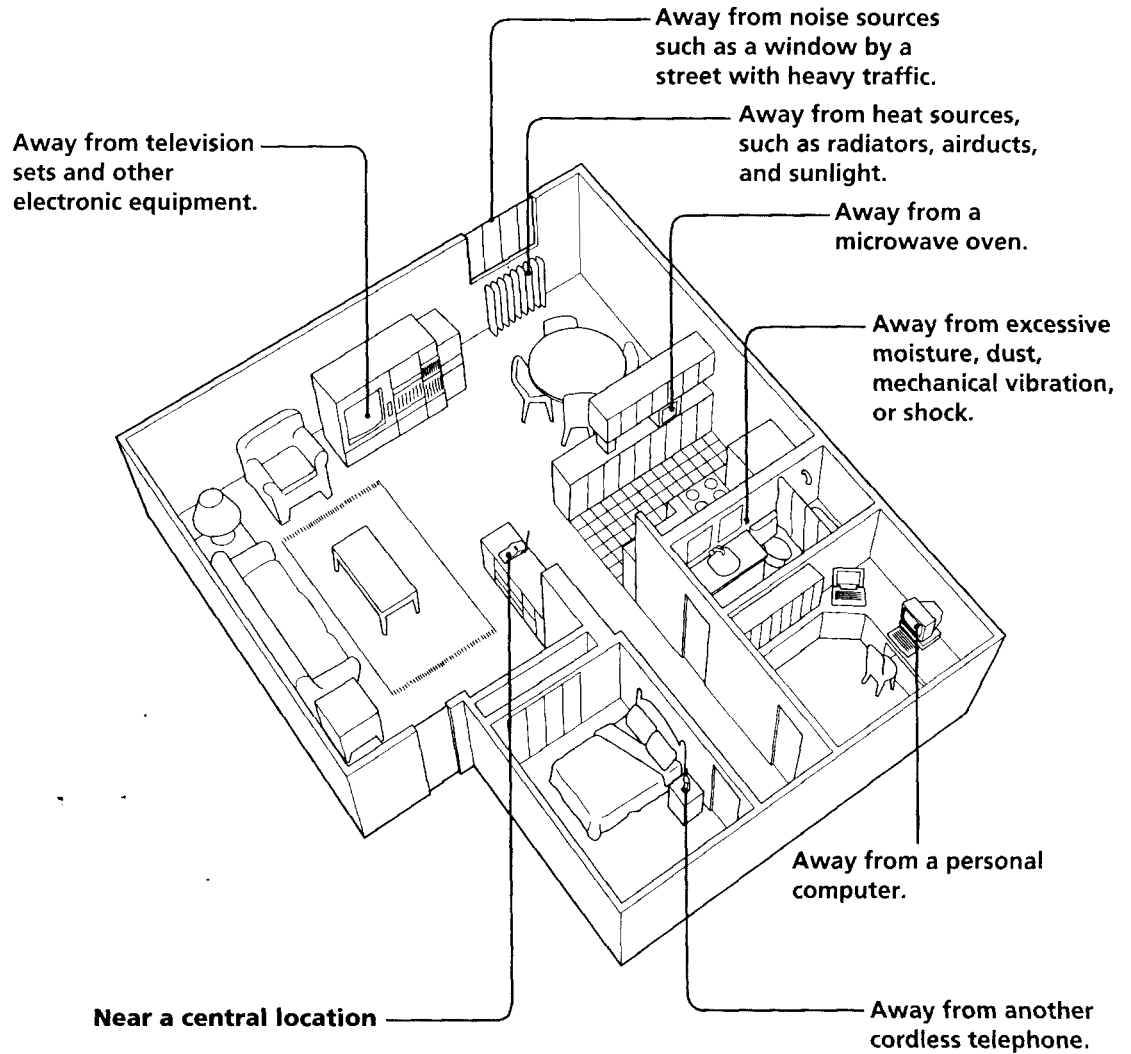
25 Message area

Shows the caller's name or phone number, and other information.

Placing the phone units

Choosing the best location for the base unit

Where you place the base unit affects the reception quality of the handset. Therefore, refer to the following when finding a place for the base unit.

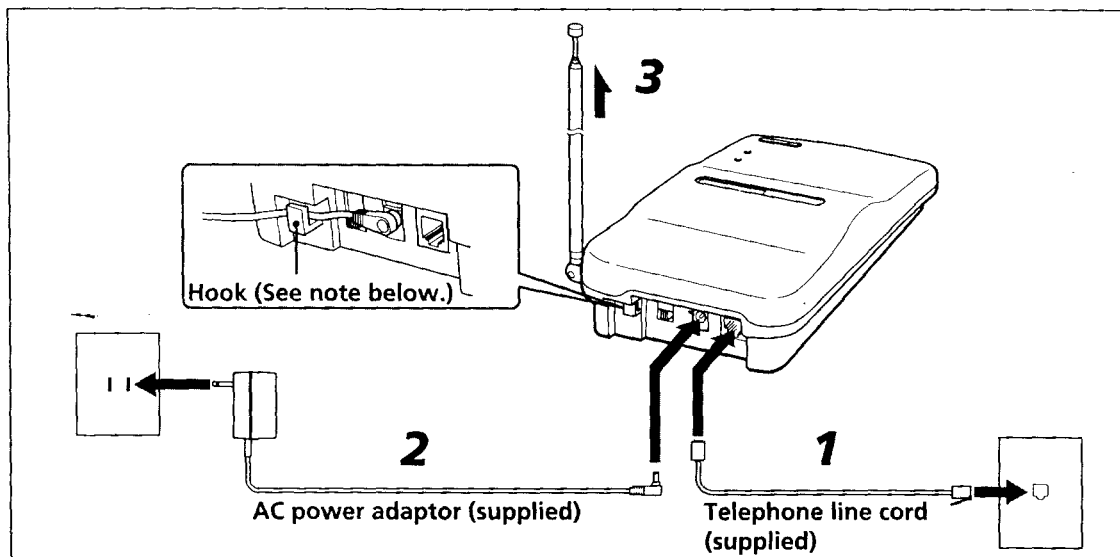


Caution

The cordless telephone operates at a frequency that may cause interference to nearby TVs and VCRs; the base unit should not be placed near or on top of a TV or VCR; and, if interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference.

Connecting the base unit

Read the next page first if you want to hang the base unit on a wall.



!
Be sure to catch the AC power adaptor cord on the hook after you set the DIAL MODE switch. (See page 16.)

!
Connect the AC power adaptor to a continuous power supply; otherwise, the battery pack being charged will have a shorter life.

!
If your telephone outlet is not modular, contact your telephone service company for assistance.



Modular

1 Plug one end of the long telephone line cord (supplied) into the TEL LINE jack, and the other end into a telephone outlet.

2 Connect one end of the AC power adaptor (supplied) to the DC IN 9V jack, and the other end to an AC outlet.

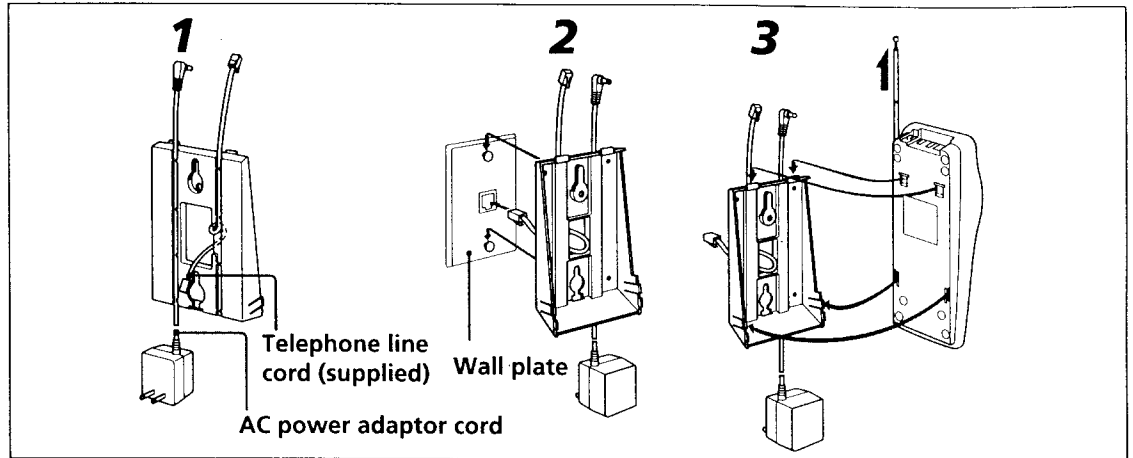
3 Fully extend the antenna.
Make sure it points toward the ceiling.

■ **Note on the AC power adaptor**
Use only the AC power adaptor supplied. Do not use any other AC power adaptor.



Polarity of the plug

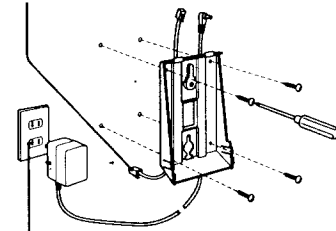
Hanging the base unit on a wall



!

To mount the wall bracket directly on the wall, use the supplied screws.

To the telephone outlet



AC outlet

!

If your telephone outlet is not modular, contact your telephone service company for assistance.



Modular

1

Press the AC power adaptor cord and the short telephone line cord into the wall bracket.

2

Hook the wall bracket to the wall plate and plug the telephone line cord into the telephone outlet.

3

Insert the tabs on the top of the wall bracket into the base unit and press the phone so that the lower tabs on the wall bracket go into the base unit. Then extend the antenna fully.

4

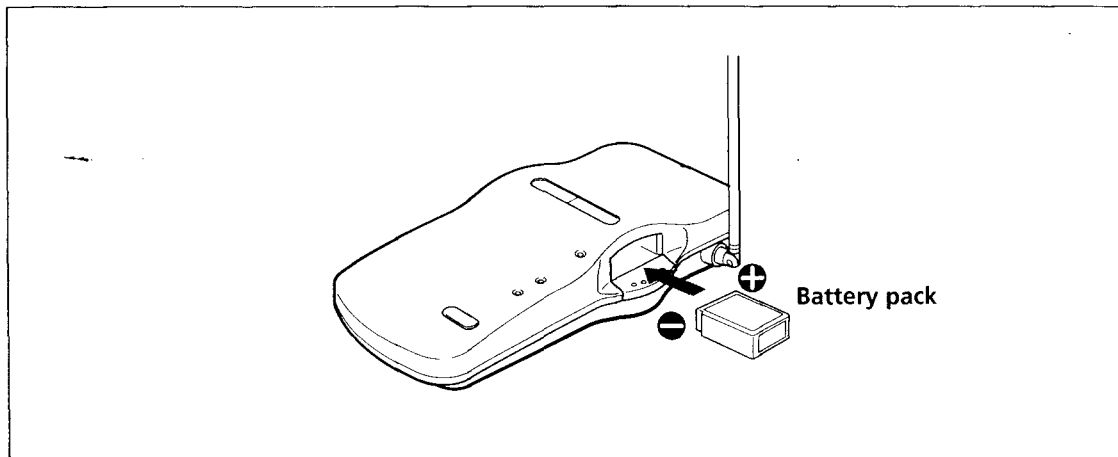
Connect the AC power adaptor and the telephone line cord.

For details, see the "Connecting the base unit" section (page 11).

Preparing the battery packs

Charging the battery packs

The two supplied battery packs must be charged before you can use them. One should be inserted into the handset to operate it. The other may remain in the base unit to allow for a continuous supply of fully charged battery packs. Also, should any power interruption occur, the battery in the base unit will provide backup power during the interruption.



!

If a battery pack is brand new or completely discharged, it may take 10 minutes or more before the CHARGE lamp lights.

- 1 Insert one of the supplied battery packs completely into the charging compartment.**

The CHARGE lamp on the base unit lights.

- 2 Charge the battery pack for about 10 hours.**

When charging is completed, the CHARGE lamp goes off.

■ Note

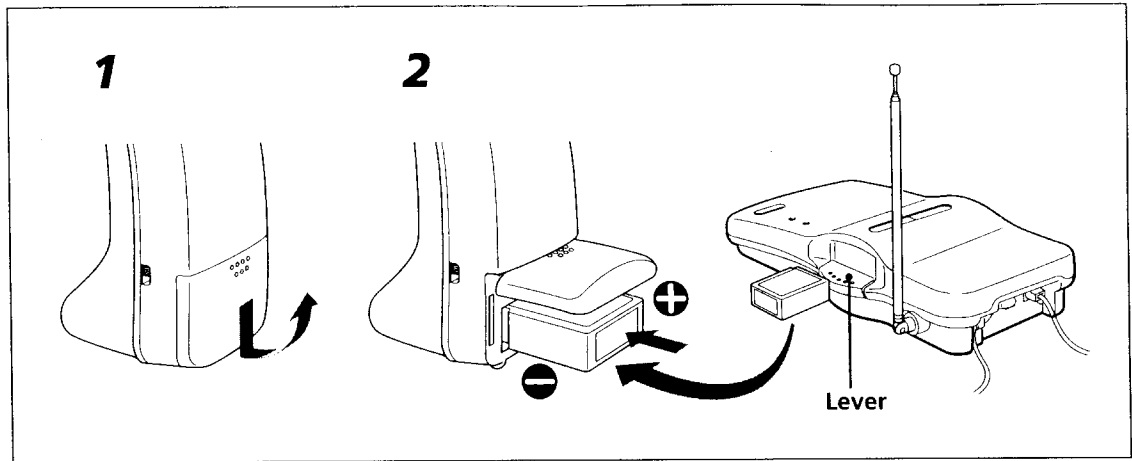
Make sure that the base unit is connected to a continuous power supply.

If the base unit's power supply is interrupted (for example, if power is cut off every night), then the battery will provide backup power, and will be discharged. Frequent charging and discharging will shorten the battery's life.

If the base unit is not connected to a continuous power supply, the battery charged in the base unit will be effective for a shorter period of time than a fully charged battery pack when installed in the handset.

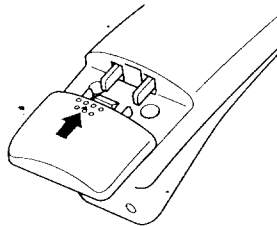
Installing a charged battery pack

After you have fully charged a battery pack in the base unit, install it in the handset as follows.



!

If the lid comes off, you can replace it easily by snapping it into place.



!

Insert the second, uncharged battery pack into the charging compartment for charging. Doing so will enable you to have a continuous supply of charged battery packs.

After charging, leave the battery pack in the base unit until its use.

1 Slide open the battery compartment lid.

2 Remove the charged battery pack from the base unit and insert it into the handset's battery compartment.

Press the lever on the base unit's charging compartment to release the battery pack.

3 Replace the battery compartment lid.

■ Notes on charging

- The battery pack supplied uses a unique lead acid battery which works best when recharged often. Unlike nickel-cadmium batteries, you do not need to wait until the battery becomes weak to recharge.
- Avoid leaving the handset without charging the battery for an extended period of time so that the battery runs down completely. This can shorten the battery's life. If this happens, recharge the battery. You may need to charge the battery several times before it is recharged to its full capacity.
- When charging a battery pack which is completely discharged, the CHARGE lamp may not light for a while (10 minutes or more). There is nothing wrong with your telephone. Continue charging.



The battery packs will gradually discharge over a long period of time even if not in use.



When not using the handset for an extended period of time, take the battery out of the handset and store it after charging for over 10 hours.




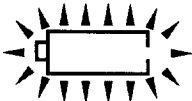
■ Battery duration

A fully charged battery pack in the handset will last approximately:

- 10 hours in continuous talk mode
- 30 days in RING ON mode
- 2 months in BATT SAVE mode

■ To determine the remaining battery power

Press the BATT CHECK button on the handset. The battery indicator will give you the following information:

Battery indicator	Amount of battery power
	Full power.
	Some power.
	Little power (Exchange the battery immediately).
	No power (Handset cannot operate any more without charging the battery).

■ If the battery becomes weak during a phone call

The handset will beep every three seconds (battery alarm).

"BATTERY LOW" and "PRESS MUTE" appear alternately on the display. Within one minute, you must exchange the battery pack, otherwise the call will be disconnected.

To exchange the battery during a phone call, see the "Exchanging the battery during a phone call" section (page 21).



If a power interruption lasts for more than several days, or when unplugging the base unit from the AC outlet, remove the battery pack from the base unit and store it away.

■ In case of a power interruption

The battery in the base unit, if fully charged, will provide backup power to the base unit for approximately:

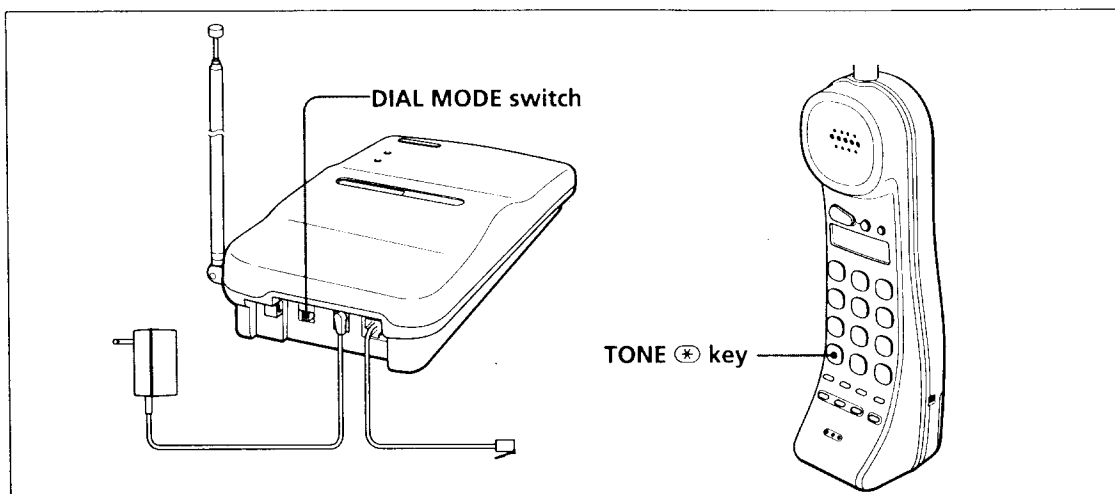
- 4 to 6 hours to remain in standby mode
- 2 to 3 hours to remain in the continuous talk mode
- 24 hours to maintain the data of the Caller ID list.

■ When to replace the battery pack

- The battery can be recharged many, many times. However, if the battery lasts only for a few minutes even after 10 hours of charging, it needs replacement.
- To purchase a replacement battery, please visit your local Sony authorized dealer or service centre.
Be sure to use only **Sony BP-T40** battery.

Choosing tone or pulse dialing

For the telephone to work correctly, you must set it to the type of your dialing system: tone or pulse dialing.



Setting the dial mode

Set the **DIAL MODE switch** to:

- T (tone) if your dialing system is tone.
- P (pulse) if your dialing system is pulse.

!

Make a trial call before catching the AC power adaptor cord on the hook as described on page 11.

■ If you are not sure

- 1 Make a trial call with the **DIAL MODE switch** set to T.
- 2 If the call connects, leave the switch at T. Otherwise, set the switch to P.

Using touch-tone services with pulse dialing systems

Some services require you to use touch-tone. This is not a problem if your phone already uses tone dialing. If your phone uses pulse dialing, however, you need to follow the steps below to use these services.

For details on making calls, see the "Making calls" section (page 19).

1 Dial the service's number.

!

You only need to press **TONE (*)** once to turn dialing to tone; this will remain in effect until the call is disconnected.

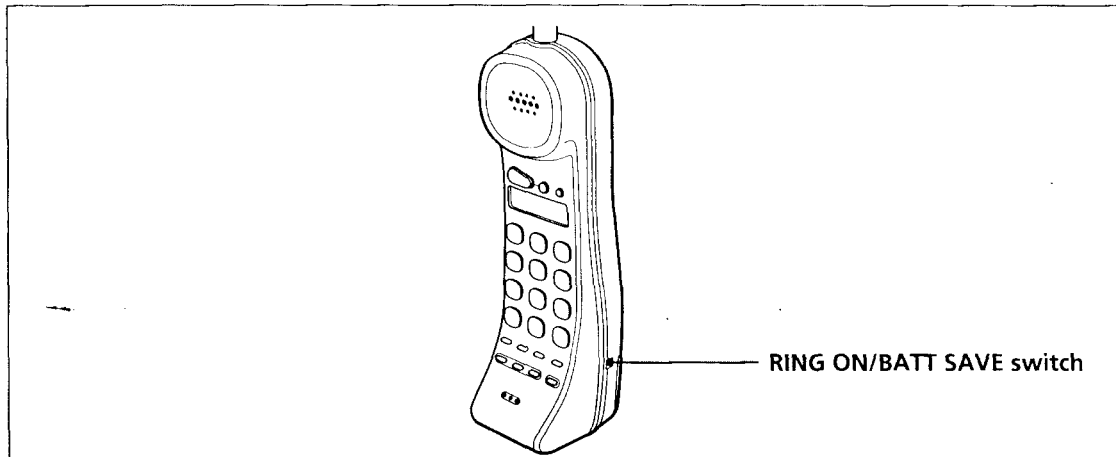
2 When connected to the service, press **TONE (*)**.

3 Press the dialing keys as required.

Turning the ringer on or off

The RING ON/BATT SAVE switch on the handset turns the ringer on or off.

If you do not want to be disturbed by telephone calls, you can turn the switch off.



Move the RING ON/BATT SAVE switch to:

- RING ON to turn the ringer on.

or

- BATT SAVE to turn the ringer off to save battery power.

This is useful if you use the handset with another telephone connected to the same line and you can hear the other telephone ring.

In this setting, the handset will not ring, but you can still make or receive calls by pressing TALK/DIAL.

!

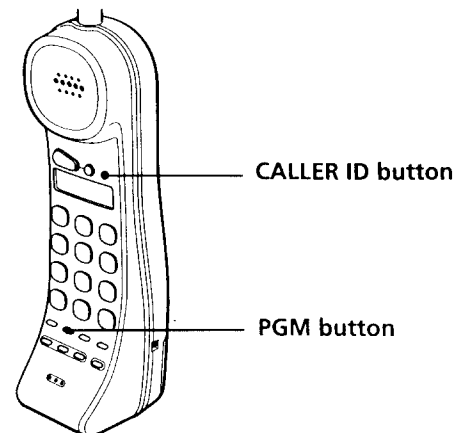
In the RING ON mode the handset consumes battery power even when you are not talking on the handset.

!

In the BATT SAVE mode a caller's name or phone number will not appear on the display (see page 26.)

Entering your area code

When you use this phone first, or you move to an area of the country that has a different area code, you must enter your area code.



1 Insert the battery pack

For details, see the "Installing a charged battery pack" section (page 14).

"NO AREA CODE" appears on the display.

2 Press PGM.

"<<PROGRAM>>" appears on the display.

3 Press CALLER ID.

"AREA CODE???" appears on the display, and you hear a confirmation beep.

4 Enter three digits of your area code using the dial keys.

5 Press PGM.

You hear a long confirmation beep.

■ To check the area code

1 Press PGM.

2 Press CALLER ID.

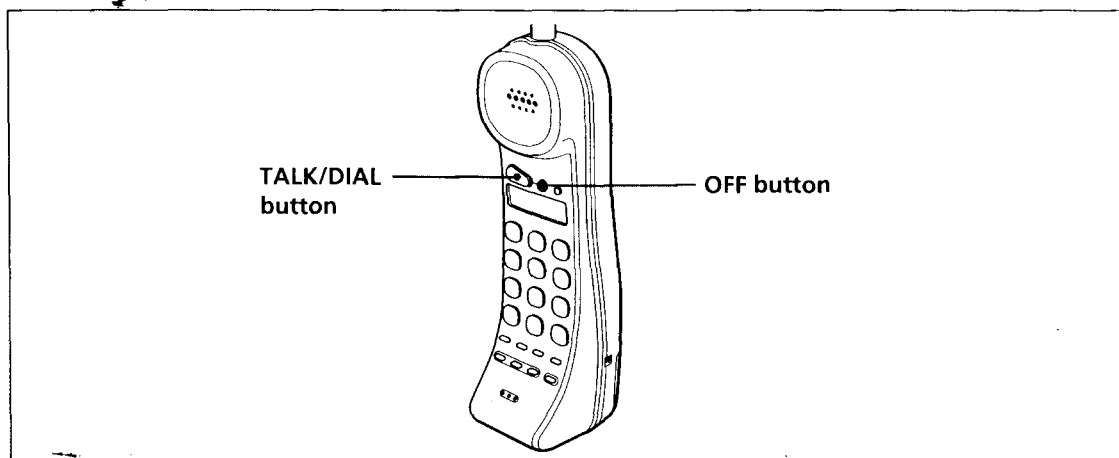
The area code appears on the display, and you hear a confirmation beep.

3 Press PGM to finish.

■ Notes on the area code

- When entering the area code, do not let more than 20 seconds elapse between any two steps of the above procedure.
- Be sure to enter the area code correctly; otherwise the following functions using the Caller ID service cannot be used.
 - "Using memory match function with Caller ID" (see page 27).
 - "Calling back a number from the Caller ID list" (see page 31).
 - "Storing a number into the speed dialing from the Caller ID list" (see page 31).

Making and receiving calls



Making calls

!

If reception is poor when you press TALK/DIAL, you will hear five short error beeps ("OUT OF RANGE" will also appear on the display). In this case, move closer to the base unit to improve reception.

!

If reception becomes poor during conversation, you will hear a beep (the out-of-range alarm) every second. If this happens, move closer to the base unit; otherwise, the call will be disconnected after 15 seconds. Note, however, that you may not hear beeps if it is noisy on the handset.

1

Press TALK/DIAL.

"CONNECTING" flashes on the display, and then you hear a dial tone.

The talk time appears on the display.

2

Dial the phone number.

3

When you finish talking, press OFF.

The talk time disappears from the display.

Receiving calls

!

The handset will not ring on an incoming call ("**RINGING**" will not appear on the display, either) if the RING ON/BATT SAVE switch is set to BATT SAVE. However, you can receive calls by pressing TALK/DIAL.

1

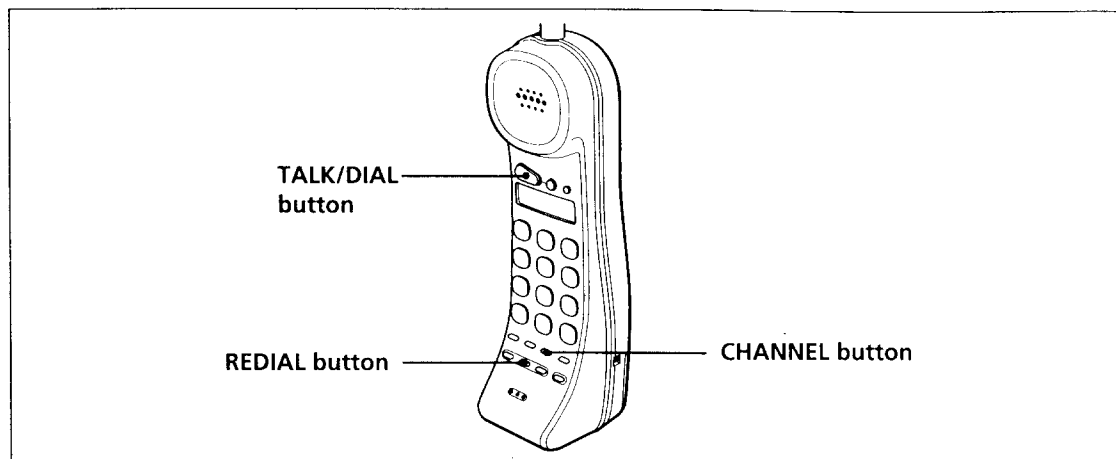
When you hear the phone ring (at the same time, "RINGING**" appears on the display), press TALK/DIAL.**

The talk time appears on the display.

2

When you finish talking, press OFF.

The talk time disappears from the display.



Redialing

You can redial the last number called with just one touch of the REDIAL button.

1 Press TALK/DIAL.

"CONNECTING" flashes on the display, and then you hear a dial tone.

The talk time appears on the display.

2 Press REDIAL.

The last sequence of numbers dialed will be automatically redialed.

!

The number must not be longer than 32 digits (the tone and pause digits are each counted as one digit); otherwise, you will hear five short error beeps and the call will not be connected.

■ To erase the last phone number dialed

While the handset is not in use, press REDIAL twice.

The number is erased from memory, and you will hear a long confirmation beep.

If interference occurs on the handset

When you press TALK/DIAL, the handset automatically searches for the channel with the best reception. However, if you notice interference **during a conversation**, move closer to the base unit. If interference persists, you can switch to another channel to improve the sound quality of your telephone conversation.

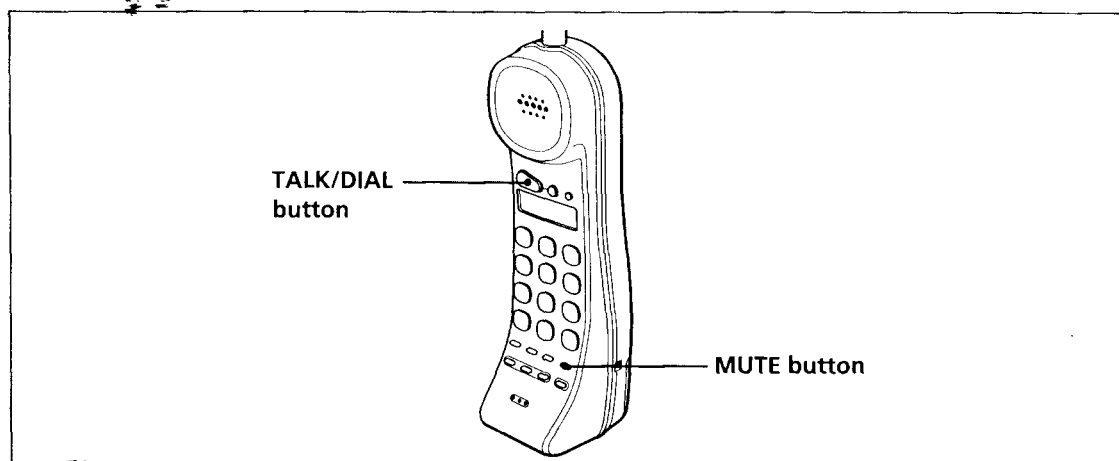
!

If you hear five short beeps when you press CHANNEL, move closer to the base unit.

During a conversation, press CHANNEL.

The phone will select a new channel.

Operating the phone during calls



Putting a call on mute

The MUTE button allows you to temporarily suspend a phone conversation without disconnecting the call. When a call is on mute, you can hear the caller but the caller cannot hear you.

Press MUTE.

"==MUTE==" flashes on the display.

■ To resume the conversation

Press MUTE again (or TALK/DIAL).

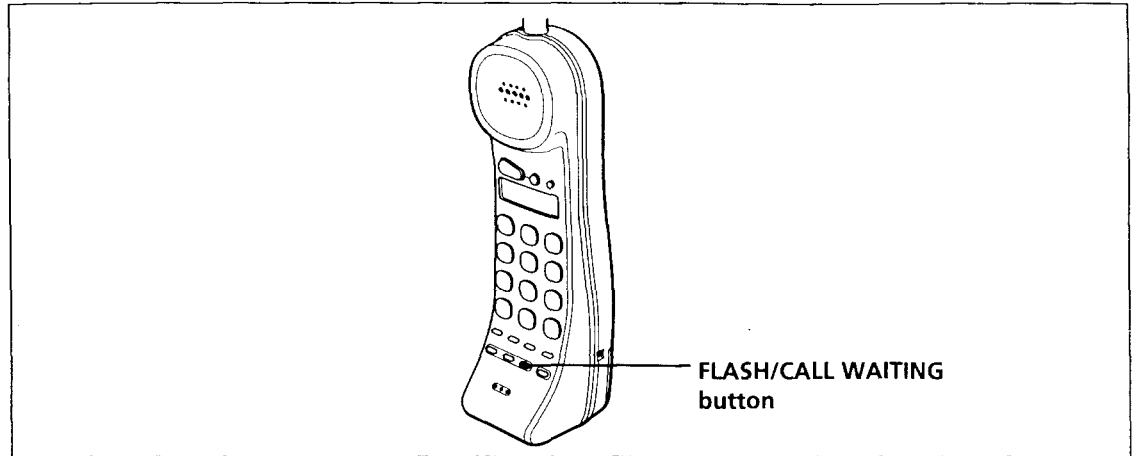
Exchanging the battery during a phone call

If the battery becomes weak during a phone call, the handset will beep every three seconds (battery alarm). "BATTERY LOW" and "PRESS MUTE" appear alternately on the display. Within one minute, you must exchange the battery pack to continue the conversation, otherwise the call will be disconnected.

!

Be sure to proceed steps 1 to 3 within one minute.

- 1 Press MUTE to put the call on mute.**
"CHANGE BATT." appears on the display.
- 2 Exchange the battery in the handset with a fully charged one in the base unit.**
The call remains connected even though the display blanks when exchanging the batteries.
- 3 Press TALK/DIAL to resume the conversation.**



Using "call waiting" service

If you have subscribed to "call waiting" service, you can switch to a new call during conversation.

!

If you press FLASH/CALL WAITING when there is no new incoming call, the call will be disconnected.

1 When a new call comes in while you are talking, press FLASH/CALL WAITING.

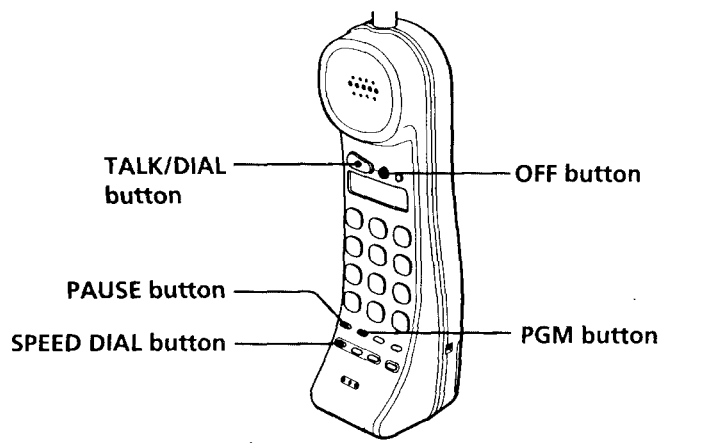
The current caller is put on hold and you can answer the new call.

2 When you want to switch back to the first caller, press FLASH/CALL WAITING again.

Pressing FLASH/CALL WAITING lets you switch back and forth between the two calls.

Speed dialing

You can store the numbers you frequently call into memory so that you can dial a number with two buttons.



Storing phone numbers

!

While storing a number, you cannot receive calls.

1

Press PGM.

"<<PROGRAM>>" appears on the display.

2

Press SPEED DIAL.

"ENTER 0~9" appears on the display.

3

Press one of the dialing keys (0 to 9).

You hear a confirmation beep.

4

Dial the phone number you wish to store.

If you enter a wrong number, press OFF and start again from step 1.

5

Press PGM.

You hear a long confirmation beep, and the number is stored.

!

Do not enter a phone number that exceeds 16 digits (the tone and pause digits are each counted as one digit); otherwise, you will hear five short error beeps and you must start over again.

■ Note on storing numbers

Do not let more than 20 seconds elapse between any two steps of the storing procedure.

■ To change a stored number

Program a new number using the procedure above. The old number will be erased automatically.

!

The phone number with more than 10 digits cannot be shown on the display at a time. The first 10 digits are shown for about 5 seconds, then the remaining digits appear on the display.

■ If you use a Private Branch Exchange (PBX)——

You need to dial a digit (such as 9) to access an outside line before you dial a phone number.

To store the phone number:

- 1 Enter the outside line access digit.
- 2 Press PAUSE to enter a pause (to allow the phone time to access the outside line.)
- 3 Enter the phone number you want to store.

■ To check and dial the phone number stored in the speed dialing——

You can dial a stored phone number after checking it on the display.

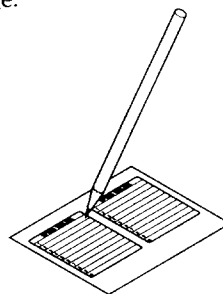
To check and dial a stored phone number:

- 1 Press SPEED DIAL.
“ENTER 0~9” appears on the display.
- 2 Press the desired speed dialing number (0 to 9).
The phone number stored in the speed dialing number appears on the display.
- 3 Press TALK/DIAL while the phone number is shown on the display
The phone automatically dials the number displayed.

■ To keep a directory——

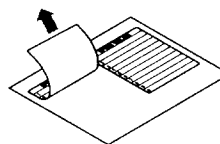
Use the directories supplied. Following is an example of directory usage.

1



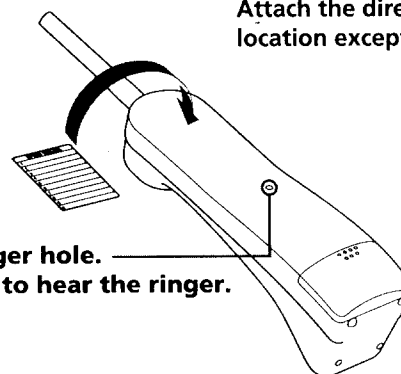
Write down the names of persons or places whose numbers you have stored in the buttons.

2



Peel off the directory.

3



Attach the directory to a desired location except on the ringer hole.

Be sure not to cover the ringer hole.
If you do, it will be difficult to hear the ringer.

Making calls with speed dialing

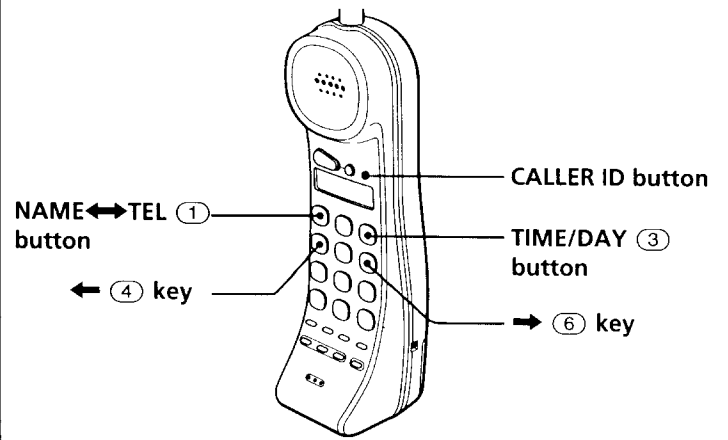
Once you have stored numbers in the speed dialing buttons, you can make a call with the touch of two buttons.

- 1 Press TALK/DIAL.**
"CONNECTING" flashes on the display, and then you hear a dial tone.
The talk time appears on the display.
- 2 Press SPEED DIAL.**
"ENTER 0~9" appears on the display.
- 3 Press one of the speed dialing keys (0 to 9).**
The phone number stored in the speed dialing will be dialed.

!
If you press a speed dialing button that does not have a phone number stored in it, you will hear five short error beeps.

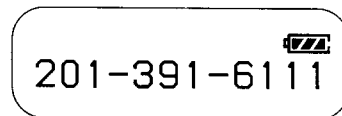
Caller ID service

Caller ID allows the caller's phone number to be shown on the display before you answer the call. In order to use this feature, you must first subscribe to Caller ID service with your telephone company. The name of this service may vary depending on your telephone company. Before using this feature, please make sure you have properly entered your area code as explained on page 18.



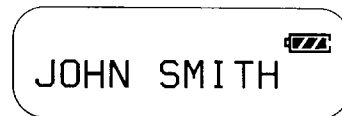
■ When you receive a call

The phone number appears on the display.



You received a call from the number 201-391-6111.

If your Caller ID service includes caller name service, the caller's name appears on the display.



You received a call from John Smith.

To alternate between the caller's name and phone number indication, press NAME ↔ TEL (1).

! If the RING ON/BATT SAVE switch of the handset is set to BATT SAVE (see page 17), a caller's name or phone number will not appear on the display. To show it on the display, press CALLER ID when receiving a call.

! During a power interruption, this service will not be offered.

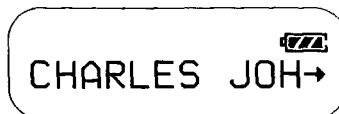
Important notes

The caller's name or phone number will not be displayed in the following cases:

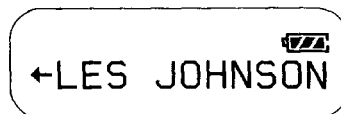
- The call is made through a telephone company which does not offer Caller ID service (including international calls). In this case, "OUT OF AREA" will be displayed.
- If the call was "blocked". For privacy reasons, many states allow callers the option to prevent his or her telephone data from being displayed on the other party's Caller ID display. If you receive a call which was "blocked" in this way, "PRIVATE" will be shown on the display.
- If the call is from an office which uses multiple lines, the phone number displayed may not match the number you use to call the extension.

■ If the entire name of a caller is not shown on the display

The caller's name will be followed by "→" on the display. This means that there are some letters not shown on the display.



By pressing → (6), you can see the hidden part.



To return to the previous indication, press ← (4).

Using memory match function with Caller ID

This feature allows you to instantly identify calls from people who you call often. If you receive a call from a phone number stored in one of the speed dialing buttons (see page 23), the ringer sound will change to its tone.

!

The memory match function will not work if the call is "blocked" or made through a telephone company which does not offer Caller ID service.

■ Before using the memory match function

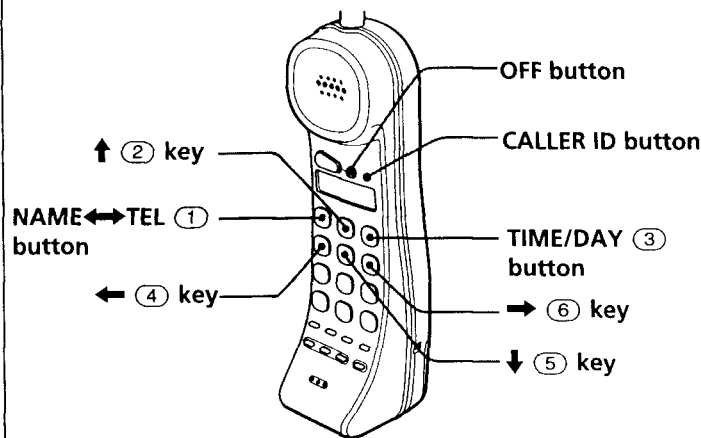
Store phone numbers in the speed dialing buttons and write down the names with the speed dialing numbers you have stored on the directory (see pages 23 and 24).

■ When you receive a call from a number stored in memory

The ringer sound will change to its tone from the second ring. This lets you know without looking at the display that the call is from someone who you call often.

Viewing the Caller ID list

This phone automatically stores the data of the last 20 calls received. It keeps track of all calls received; even if they were not answered.

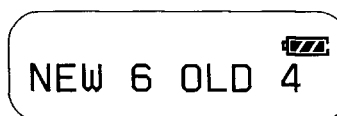


! "OUT OF AREA" or "PRIVATE" data is also counted as one call.

! Even if the power is interrupted, the data of the Caller ID list is backed up by the battery in the base unit. If the battery is fully charged, the data of the Caller ID list will be maintained for about 24 hours.

1 Press CALLER ID to check the number of calls in the Caller ID list.

The display shows the number of "NEW" and "OLD" calls in the Caller ID list.



2 To view the Caller ID list

Press ↓ (5). The display shows the data of the newest caller.

To display the older data

Press ↓ (5). If you press ↓ (5) repeatedly, and view all the data, "END OF LIST" will appear on the display.

To display the newer data

Press ↑ (2). If you press ↑ (2) repeatedly, and view all the data, "TOP OF LIST" will appear on the display.

To alternate between the caller's name and phone number indication

Press NAME<=>TEL (1).

3 Press OFF to finish.

■ Note on the meaning of "NEW" and "OLD" calls

When you receive a call with Caller ID data, it will be added to the list as a "NEW" call.

Only after you view all the "NEW" calls and press OFF in step 3 above, they will be shown as "OLD" calls.

■ Note on viewing the Caller ID list

Do not let more than 20 seconds elapse between any two steps of the viewing procedure.

■ **If the entire name of a caller is not shown on the display**

The caller's name will be followed by "→" on the display. This means that there are some letters not shown on the display. To see the hidden part of the name, see page 27.

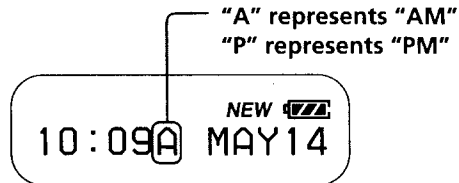
■ **To check the time and day when the call was made**

Press TIME/DAY (3).

While you keep pressing the button, the display shows the time and day.

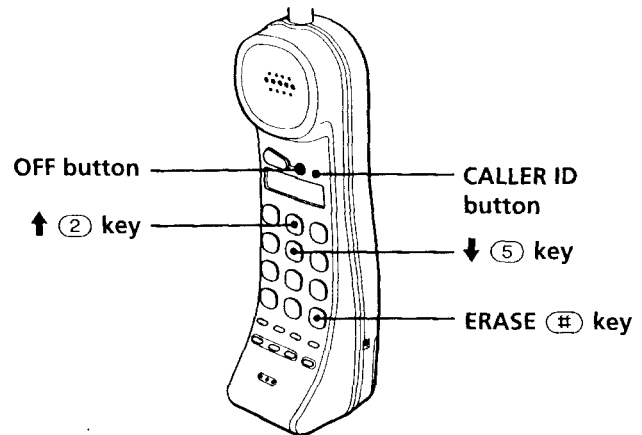
!

The time and day information is received from your telephone company. If the call came from a different time zone, it will still show the time in your area. There is no built-in clock.



Erasing data from the Caller ID list

The phone maintains data of the last 20 calls in memory. If a new call comes in after these 20 calls, the oldest data will automatically be erased and the new call will be stored.



■ To erase one stored Caller ID data at a time —

1 Press CALLER ID.

The display shows the number of "NEW" and "OLD" calls in the Caller ID list.

2 Press ↓ (5) (or ↑ (2)) repeatedly to display the Caller ID data (either name or phone number) you want to erase.

3 Press ERASE (#).

You hear a long confirmation beep and the data is erased.

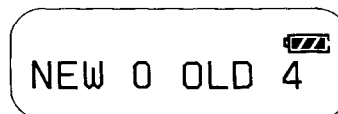
4 Press OFF to finish.

■ To erase the entire list at once —

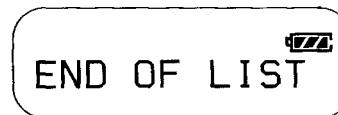
1 Press CALLER ID.

The display shows the number of "NEW" and "OLD" calls in the Caller ID list.

If there is no "NEW" calls, go to the next step.

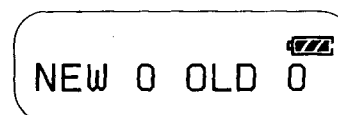


If there are "NEW" calls, press ↓ (5) repeatedly until "END OF LIST" appears on the display, then go to the next step.



2 Press ERASE (#).

You hear a long confirmation beep and the entire list is erased.

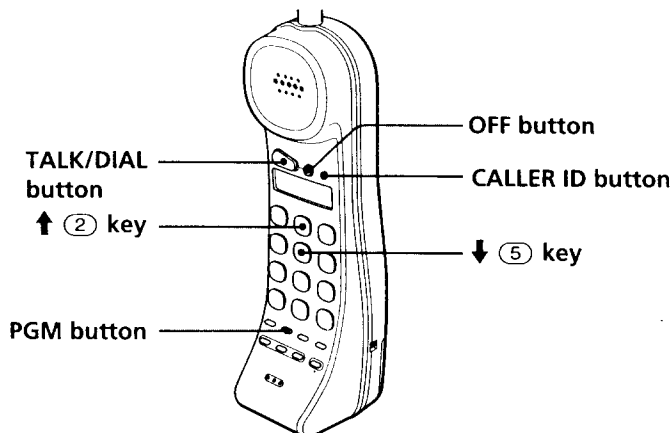


!

If you try to erase the entire list when there remains any new calls, you hear five short error beeps and you cannot erase the list.

Using the Caller ID list

You can easily call back a number from the Caller ID list by pressing TALK/DIAL. You can also store a number from the Caller ID list into one of the speed dialing buttons.



Calling back a number from the Caller ID list

- 1 Press CALLER ID.**
The display shows the number of "NEW" and "OLD" calls in the Caller ID list.
- 2 Press ↓ ⑤ (or ↑ ②) repeatedly to select the Caller ID data (either name or phone number) you want to dial.**
- 3 Press TALK/DIAL.**
The phone automatically dials the number displayed.

Storing a number into the speed dialing from the Caller ID list

- 1 Press CALLER ID.**
The display shows the number of "NEW" and "OLD" calls in the Caller ID list.
- 2 Press ↓ ⑤ (or ↑ ②) repeatedly to select the Caller ID data (either name or phone number) you want to store.**
- 3 Press PGM.**
"ENTER 0~9" appears on the display.
- 4 Press one of the dialing keys (0 to 9).**
You hear a long confirmation beep, and the phone number is stored.
- 5 Press OFF to finish.**

!
If the selected Caller ID is "PRIVATE" or "OUT OF AREA" data, there is no phone number stored. In this case, you will hear five short error beeps.

!
When the number has an area code, the number "1" will be added before the area code automatically.

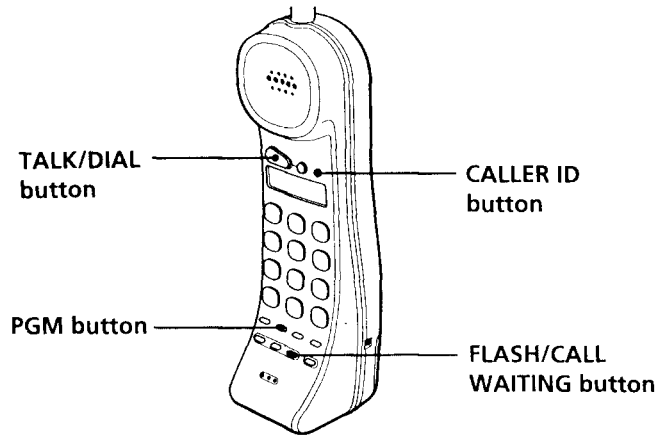
■ Note on storing numbers

Do not let more than 20 seconds elapse between any two steps of the storing procedure.

Using "Caller ID with call waiting" service

In order to use the "Caller ID with call waiting" service, you need to subscribe to a telephone company which offers Caller ID service combined with "call waiting" service.

When a new call comes in, the name or the phone number of the new caller appears on the display.



! During a power interruption, this service will not be offered.

! If you want to dial when the CALL WAITING indicator lights on the display, press TALK/DIAL or CALLER ID and then dial the number.

! If FLASH/CALL WAITING is pressed when there is no new incoming call, the call will be disconnected.

Before you use this feature, make sure that you have subscribed to both Caller ID service and "call waiting" service with your telephone company. Also, check to see if the telephone company offers Caller ID service combined with "call waiting" service.

When a new call comes in while you are talking, check the display. The CALL WAITING indicator lights and the new caller's name (or phone number) appears on the display and remains for about 20 seconds.

1 When you want to switch to a new call, press FLASH/CALL WAITING.

The current caller is put on hold and you can answer the new call.

2 When you want to switch back to the first caller, press FLASH/CALL WAITING again.

Pressing FLASH/CALL WAITING lets you switch between the two calls.

■ If you have not subscribed to "Caller ID with call waiting" service

When you do not use "Caller ID with call waiting" service, proceed as follows to set CIDCW (Caller ID with Call Waiting) OFF. If CIDCW is set ON, your phone may happen to be muted during conversation — this results from a characteristic of this service itself.

1 Press PGM.

2 Press FLASH/CALL WAITING.

"CIDCW IS OFF" appears on the display.

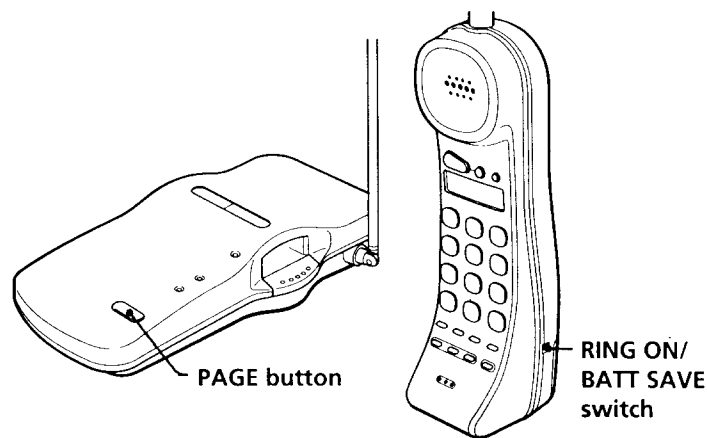
3 Press PGM again.

You hear a long confirmation beep.

When you subscribe to this service at a later time, set the phone ON for the service by following the same steps ("CIDCW IS ON" appears on the display).

Paging the handset

You can page someone near the handset from the base unit. The RING ON/BATT SAVE switch of the handset should be set to RING ON.



!

You cannot page the handset if the handset is engaged in conversation.

Press PAGE on the base unit.

The handset rings, and "***PAGING**" appears on the display. When you keep pressing PAGE, the handset rings continuously.

Precautions

On power source

- Before initial use, insert the battery pack into the base unit and charge it for 10 hours.
- Operate the base unit only on 9V DC. Use the AC power adaptor supplied. Do not use any other AC power adaptors as they may cause malfunction.
- Connect the base unit into an AC outlet which has a continuous power supply. Avoid outlets where power may be cut off.
- Store the battery pack at a temperature between 5°C (41°F) and 35°C (95°F) for best performance.

On maintenance

■ To clean the cabinets

Clean the cabinets with a soft cloth slightly moistened with water or a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine as they may damage the finish of the cabinet.

■ To clean the battery terminals

If the terminals (metal parts on the battery pack) are soiled, the battery life will become shorter. When this occurs, repeatedly attach and remove the battery from the battery compartment. This will improve the contact of the battery pack and the battery compartment of the handset or the base unit. Also, wipe the terminals with a soft cloth or paper.

Troubleshooting

Problem	Cause/Solution
Making a call	
You hear five short error beeps and see "OUT OF RANGE" on the display when pressing TALK/DIAL.	<ul style="list-style-type: none">• Make sure the base unit is connected to an AC outlet.• Extend the antenna of the base unit vertically.• Move the handset closer to the base unit.• Place the base unit away from noise sources (page 10).
You hear no dial tone.	<ul style="list-style-type: none">• Make sure the telephone line cord is securely connected to the telephone outlet.• The battery may be weak or completely discharged. Charge the battery for more than 10 hours (page 13).
The phone does not connect at all, even though the numbers you dial are correct.	<ul style="list-style-type: none">• Make sure the dial mode setting is correct (page 16).
The phone does not redial correctly.	<ul style="list-style-type: none">• Make sure the number you last dialed (including the tone and pause digits, if used) is not longer than 32 digits.• Make sure the last dialed number is really the one you want to dial.
Talking on the handset	
You hear interference during conversation.	<ul style="list-style-type: none">• Move the handset closer to the base unit.• Press CHANNEL on the handset for a channel that gives better reception.• Place the base unit away from noise sources (page 10).
You hear a beep every second during conversation.	<ul style="list-style-type: none">• It is an out-of-range alarm. Move the handset closer to the base unit within 15 seconds (page 19).
You hear a beep every three seconds and see "BATTERY LOW" on the display.	<ul style="list-style-type: none">• The battery is weak. Replace it with a fully charged battery (page 21) and charge the battery for more than 10 hours (page 13).
Receiving calls	
The handset does not ring.	<ul style="list-style-type: none">• Move the RING ON/BATT SAVE switch to RING ON.• The battery may be weak. Charge the battery for more than 10 hours (page 13).• Extend the antenna of the base unit vertically.• Move the handset closer to the base unit.• Place the base unit away from noise sources (page 10).• If you are storing or checking a phone number stored in the speed dialing, you cannot receive any calls. This is not a malfunction.

(to be continued)

→ Troubleshooting

(continued)

Storing phone numbers

You hear five short error beeps and cannot store a memory dialing number.

- Make sure you follow the procedure in storing the number correctly (page 23).
- Make sure the number (including the tone and pause digits, if used) is not longer than 16 digits.

Operating Caller ID

The caller's name or phone number does not appear on the display.

- Make sure you subscribe to Caller ID service or Caller name service with your telephone company.
- Caller ID service may not work when the phone is connected to a Private Branch Exchange (PBX).
- The call is made through company which does not offer Caller ID service. "OUT OF AREA" appears on the display (page 26).
- You received a call which was "blocked". "PRIVATE" appears on the display (page 26).
- During a power interruption, Caller ID service will not be offered (page 26).

"RECEIVE ERR." appears on the display.

- Move the handset closer to the base unit.
- Extend the antenna of the base unit vertically.
- Place the base unit away from noise sources (page 10).

The caller's name or phone number does not appear on the display during call waiting.

- Make sure you subscribe to Caller ID service and also "call waiting" service with a telephone company which offers Caller ID service combined with "call waiting" service (page 32).
- Make sure the CIDCW function is ON (page 32).
- Make sure nobody is talking on another phone on the same telephone line.
- During a power interruption, Caller ID with call waiting service will not be offered (page 32).

You cannot dial the number from the Call ID list.

- Make sure you enter your area code correctly (page 18).
- This function may not work when the phone is connected to a Private Branch Exchange (PBX).

Caller ID memory has been erased.

- If the AC power adaptor is disconnected, the battery in the base unit will back up the Caller ID memory (for about 24 hours with the battery fully charged).

The memory match function does not work.

- If the call is from an office which uses multiple lines, the phone number may not match the number you put in memory.
- Make sure you enter your area code correctly (page 18).

You cannot store the Caller ID data into the speed dialing.

- Make sure you enter your area code correctly (page 18).

Paging the handset

The handset does not ring when calling from the base unit.

- Make sure the RING ON/BATT SAVE switch to RING ON.
- The battery may be weak. Charge the battery for more than 10 hours (page 13).
- Extend the antenna of the base unit vertically.
- Place the base unit away from noise sources (page 10).

Specifications

General

Frequency control
Crystal-controlled PLL

Operation mode
FM, duplex

Operation channel
25 channels

Supplied accessories
AC power adaptor AC-T37 (1)
Telephone line cords (2)
Rechargeable battery pack
BP-T40 (2)
Wall bracket and screws (1 set)
Directories (2)
Operating instructions (1)

Handset

Power source
Rechargeable battery pack BP-T40

Battery life
Standby: Approx. 30 days

Dimensions
Approx. $2\frac{3}{8} \times 8\frac{1}{8} \times 2\frac{3}{4}$ inches
(w/h/d), antenna excluded
(Approx. 58 x 205 x 69 mm)
Antenna: $3\frac{1}{4}$ inches (81 mm)

Mass
Approx. 10.5 oz, battery included
(Approx. 300 g)

Base unit

Power source
DC 9V from AC power adaptor

Battery charging time
Approx. 10 hours

Dimensions
Approx. $4\frac{5}{8} \times 1\frac{13}{16} \times 8\frac{5}{8}$ inches
(w/h/d), antenna excluded
(Approx. 116 x 45 x 220 mm)
Antenna: $24\frac{1}{8}$ inches (610 mm)

Mass
Approx. 13 oz
(Approx. 370 g)

Design and specifications are subject to change without notice.