

Panasonic

Cordless Phone

KX-TC190-B

Model No. **KX-TC190-W**

Pulse-or-tone dialing capability

Operating Instructions



KX-TC190-B

**SOUND CHARGER
PLUS**

**25
CHANNEL**

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for about 3 hours before initial use.

Getting Started

Basic Operation

Advanced Operation

Useful Information

Before Initial Use

Please read IMPORTANT SAFETY INSTRUCTIONS on pages 27-28 before use. Read and understand all instructions.

Thank you for purchasing the Panasonic cordless telephone.

Attach your purchase receipt here.

For your future reference

Serial No

(found on the bottom of the unit)

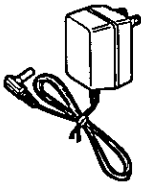
Date of purchase

Name of dealer

Dealer's address

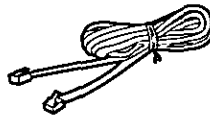
Accessories

AC Adaptor (p 8)



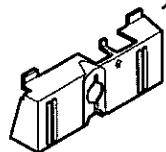
one

Telephone Line Cord (p 8)



one

Wall Mounting Adaptor (p 23)



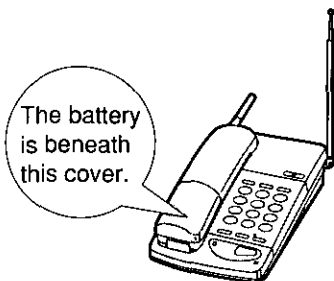
one

• To order accessories, call 1-800-332-5368

For Best Performance

Battery Charge

To power the handset, charge the battery for about 3 hours before initial use (p. 9).

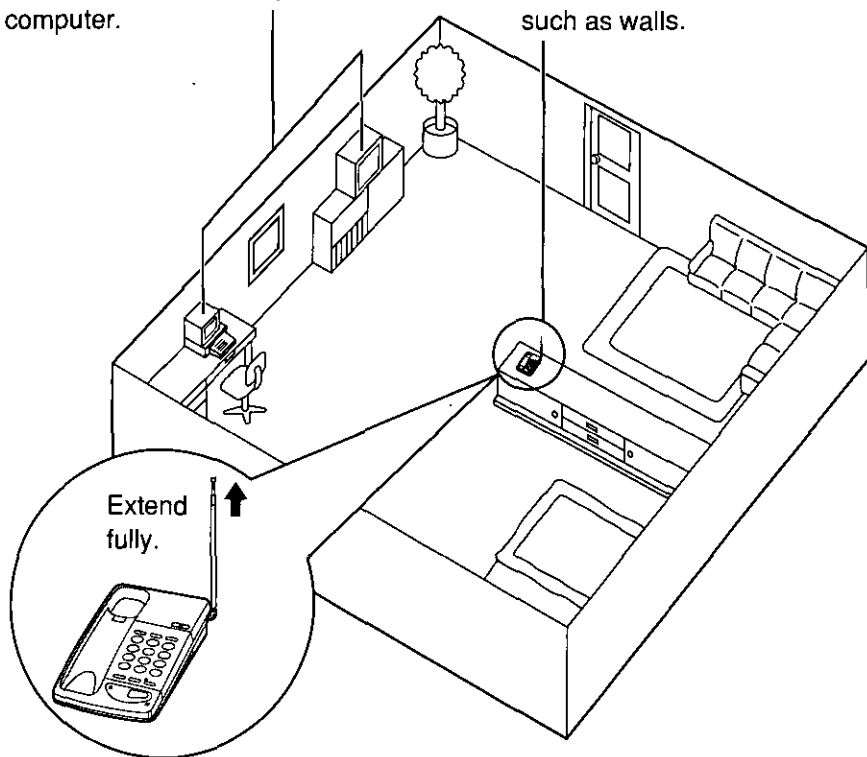


Operating Distance/Noise

Calls are transmitted between the base unit and the handset using wireless radio waves. For maximum distance and noise free operation, the recommended base unit location is:

Away from electrical appliances such as a TV, radio, or personal computer.

In a HIGH and CENTRAL location with no obstructions such as walls.



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Advanced Operation

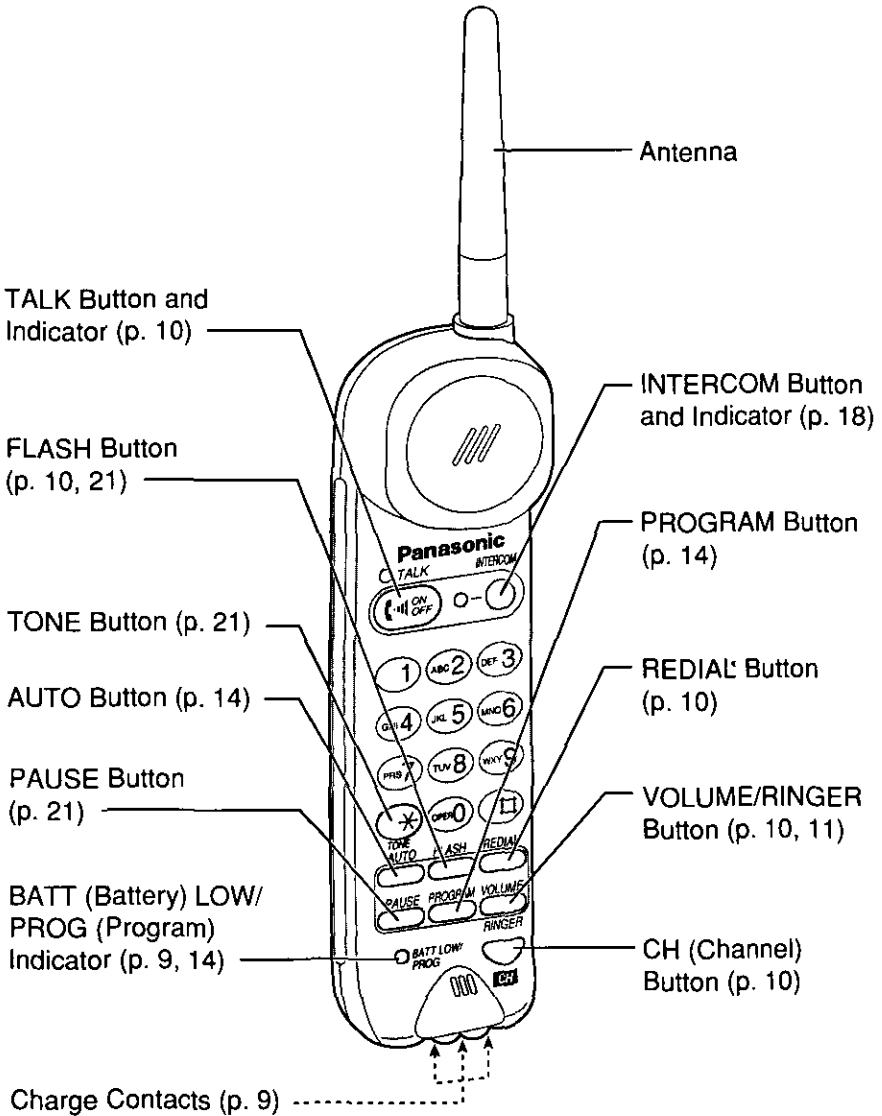
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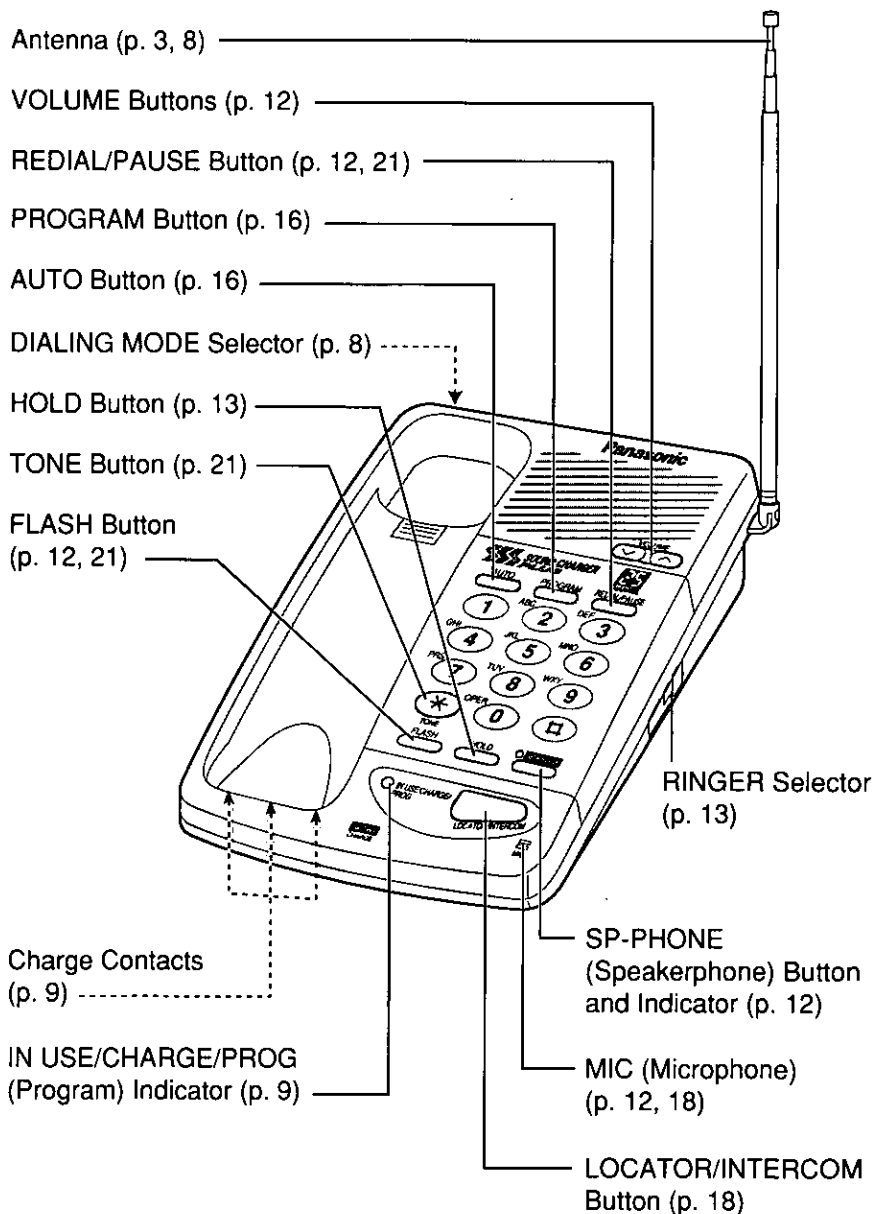
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Location of Controls

Handset

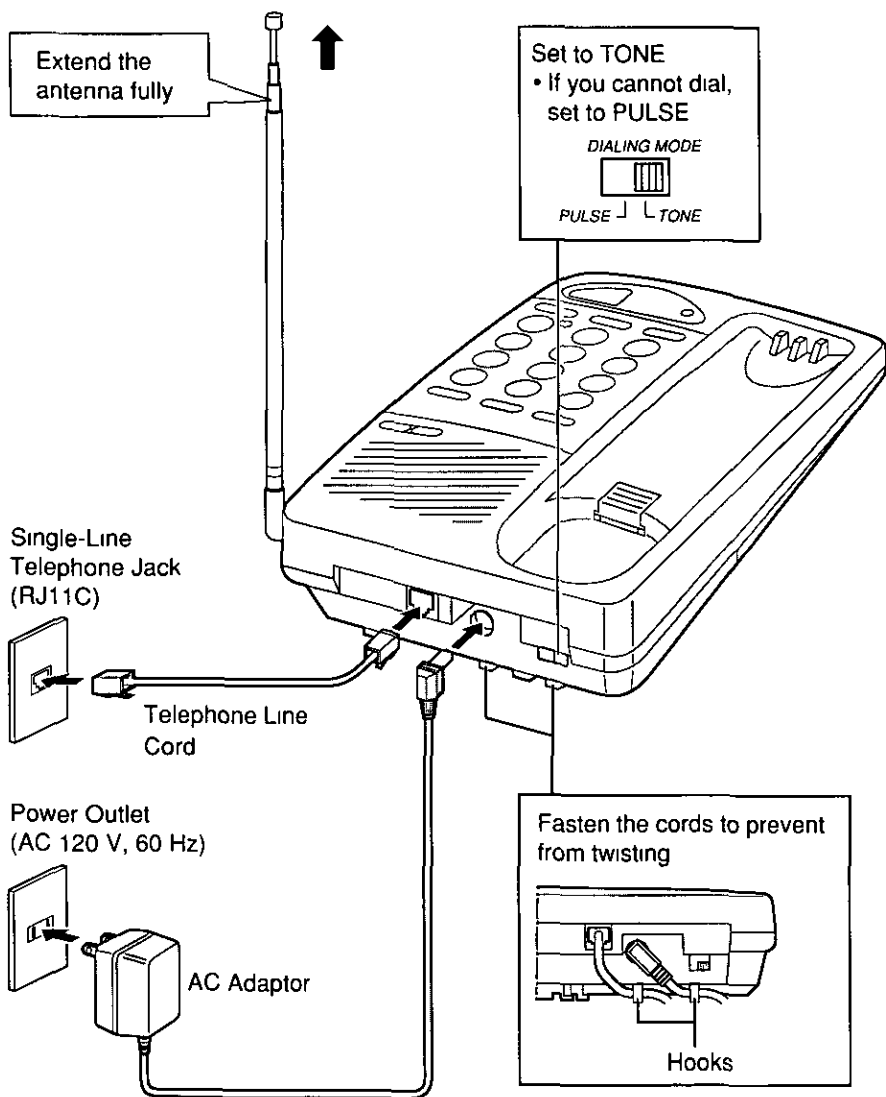


Base unit



Setting Up

Connection

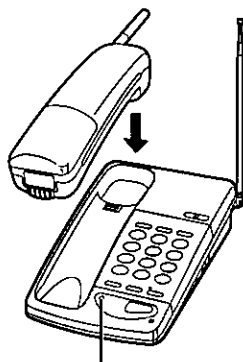


- USE ONLY Panasonic AC ADAPTOR KX-A11
- The AC adaptor must remain connected at all times (It may feel warm during use This is normal)
- If you connect a reserve telephone on the same line, see page 26

Battery Charge

Place the handset on the base unit for about 3 hours

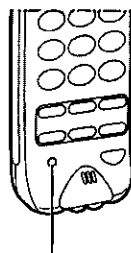
- The IN USE/CHARGE/PROG indicator lights



IN USE/CHARGE/PROG Indicator

Recharge

When the BATT LOW/PROG indicator flashes or the unit beeps intermittently, recharge the battery



BATT LOW/PROG Indicator

Standard battery life

If your Panasonic battery is fully charged,

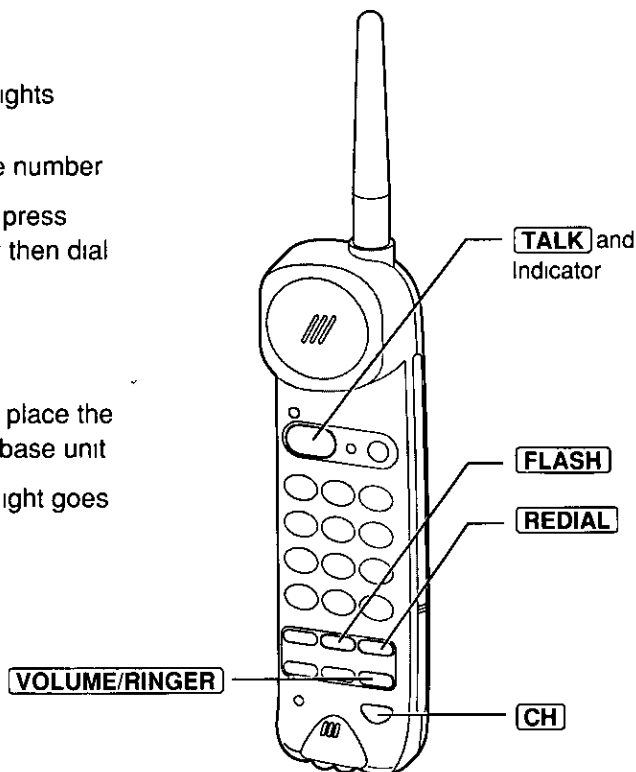
While in use (TALK)	Up to about 8 hours
While not in use (Stand-By)	Up to about 30 days

- Battery life may vary depending on usage conditions and ambient temperature
- **Clean the handset and the base unit charge contacts with a soft dry cloth once a month**, or the battery may not charge properly
- Once the battery is fully charged, you do not have to place the handset on the base unit until the BATT LOW/PROG indicator flashes
- The battery cannot be overcharged

Making/Answering Calls

Making Calls with the Handset

- 1 Press **TALK**
 - The indicator lights
- 2 Dial a telephone number
 - If you misdial, press **FLASH** firmly then dial again
- 3 To hang up, press **TALK** or place the handset on the base unit
 - The indicator light goes out



- If an alarm tone sounds in step 1, move toward the base unit or place the handset on the base unit. Then try again.

To redial the last number

Press **TALK** ➔ **REDIAL**

To select the receiver volume HIGH or NORMAL (preset)

Press **VOLUME/RINGER** while speaking

- Each time you press, the volume level will change

If noise interferes with the conversation

Press **CH** to select a clear channel or move closer to the base unit



Answering Calls with the Handset

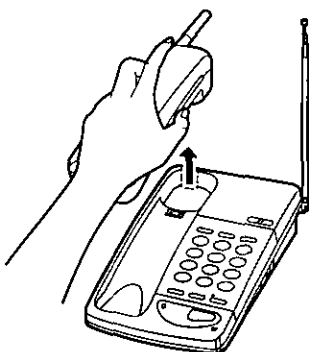
If the handset is off the base unit, press **TALK**

- You can also answer a call by pressing a dialing button 0 to 9, *, or #



OR

If on the base unit, just lift it



Adjusting the ringer volume

Be sure the TALK and/or INTERCOM indicator light is off

- To select **HIGH (preset)** or **LOW**, press **VOLUME/RINGER**
(Each time you press, the ringer volume will change)
- To turn the ringer **OFF**, while pressing **VOLUME/RINGER**, press **0** until 2 beeps sound
- To turn the ringer **ON**, press **VOLUME/RINGER** The ringer sounds at the HIGH level

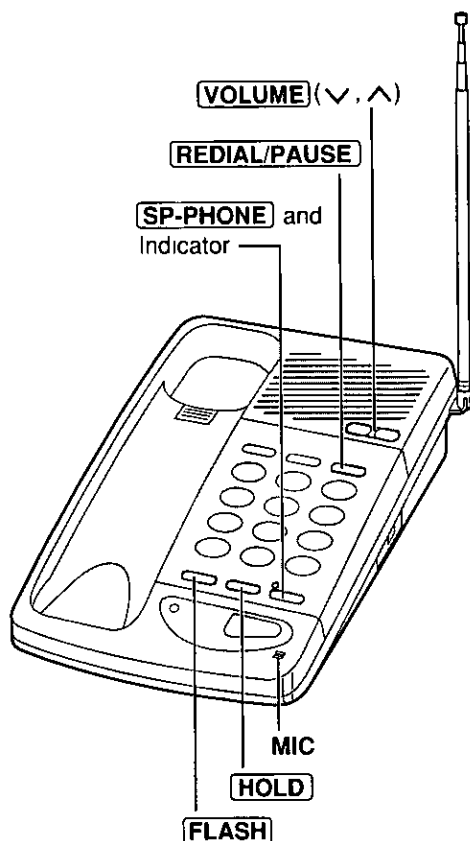
Lighted keypad

The dialing buttons will light while you are dialing and will flash when a call comes in. The light will go out about 10 seconds after dialing or answering the call.

➔ Making/Answering Calls

Making Calls with the Base Unit

- 1 Press **SP-PHONE**
 - The indicator lights
- 2 Dial a telephone number
 - If you misdial, press **FLASH** firmly then dial again
- 3 When the other party answers, speak into the **MIC** (microphone)
- 4 To hang up, press **SP-PHONE**
 - The indicator light goes out



- For best speakerphone performance, use in a quiet room and speak alternately with the caller
- While using the speakerphone, if the handset is on the base unit, you may switch to the handset by lifting it up

To redial the last number

Press **SP-PHONE** ➔ **REDIAL/PAUSE**

To adjust the speaker volume (12 levels)

To increase, press \wedge To decrease, press \vee

To put a call on hold

Press **HOLD**

- The SP-PHONE indicator flashes
- If you put a call on hold for 6 minutes, a warning tone will sound
The call will be disconnected after a total of 10 minutes

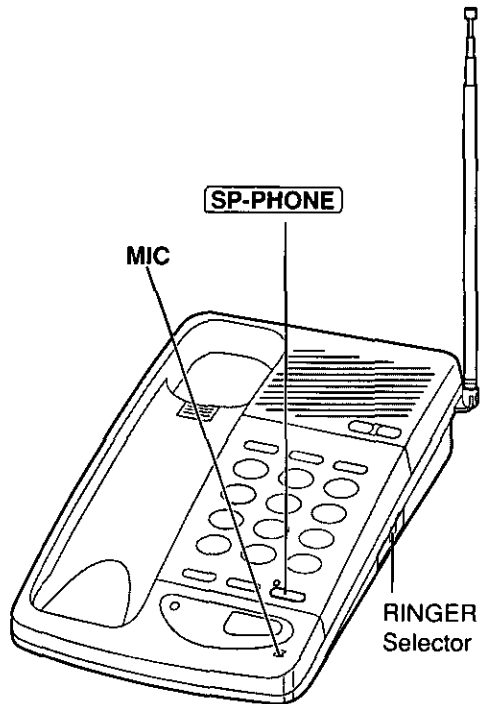
To release the hold

Press **SP-PHONE** or lift the handset off the base unit

- If another phone is connected on the same line, you can also release the hold by lifting its handset

Answering Calls with the Base Unit

- 1 Press **SP-PHONE**
- 2 Speak into the **MIC**
- 3 To hang up, press **SP-PHONE**



To select the ringer volume

Set the RINGER selector to HIGH, LOW, or OFF

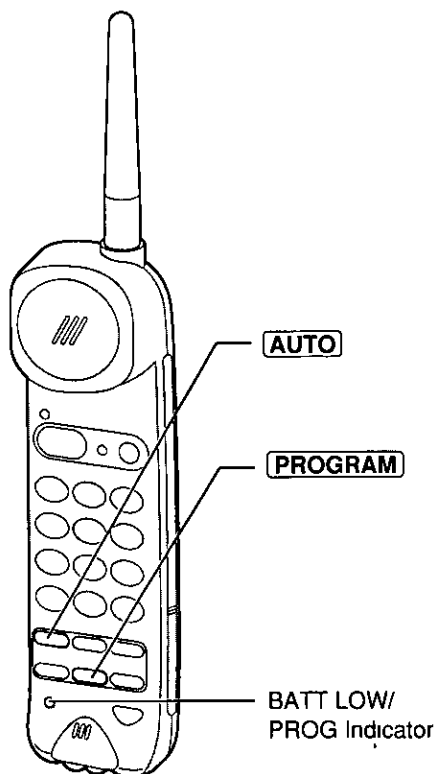
- When set to OFF, the base unit will not ring

Automatic Dialing (Handset)

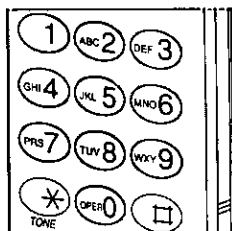
Storing Phone Numbers in Memory

You can store 10 numbers in the handset. The dialing buttons (0 to 9) function as memory stations. The TALK indicator light must be off.

- 1 Press **PROGRAM**
 - The BATT LOW/PROG indicator lights
- 2 Enter a phone number up to 16 digits
 - If you misdial, press **PROGRAM** to end storing, then restart from step 1
- 3 Press **AUTO**



- 4 Press a memory station number (0 to 9)
 - A confirmation tone sounds (See below)
 - To store other numbers, repeat steps 1 through 4



What the confirmation tone means

- 1 beep The new number is stored
- 2 beeps The number is the same as a previously stored one

To erase a stored number

Press **PROGRAM** ➡ **AUTO** ➡ the memory station number (for the phone number to be erased)

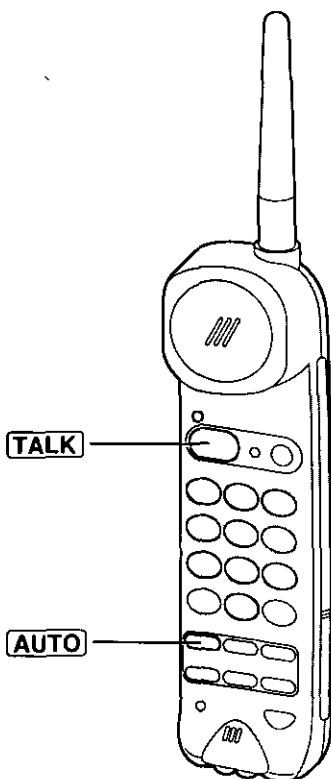
Memory sticker

You may use one of the included memory stickers as a memorandum for automatic dialing. Write down the names or phone numbers, then attach it to the unit or at a convenient place.

10-STATION/AUTOMATIC/DIALER	
1	6
2	7
3	8
4	9
5	0
TEL NO	

Dialing a Stored Number

- 1 Press **TALK**
- 2 Press **AUTO**
- 3 Press the memory station number (0 to 9)
 - The stored number is dialed



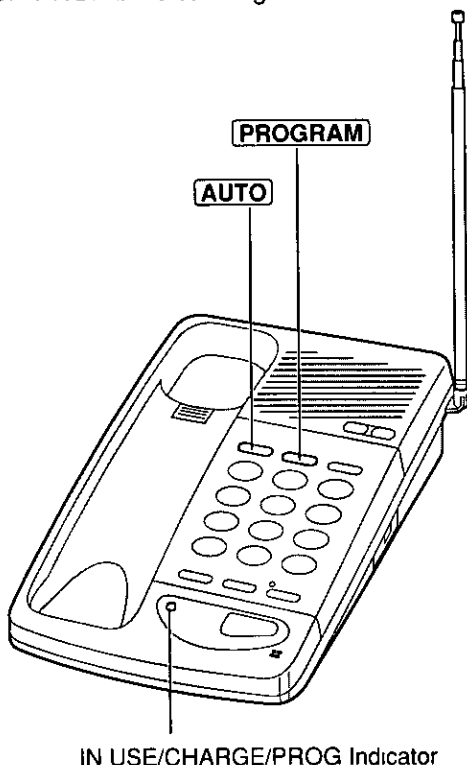
• Numbers stored in the handset can only be dialed with the handset

Automatic Dialing (Base Unit)

Storing Phone Numbers in Memory

You can store 10 numbers in the base unit. The dialing buttons (0 to 9) function as memory stations. The SP-PHONE indicator light must be off.

- 1 Press **PROGRAM**
 - The IN USE/CHARGE/PROG indicator flashes
- 2 Enter a phone number up to 16 digits
 - If you misdial, press **PROGRAM** to end storing, then restart from step 1



- 3 Press **AUTO**
- 4 Press a memory station number (0 to 9)
 - A confirmation tone sounds (See below)
 - To store other numbers, repeat steps 1 through 4



What the confirmation tone means

- 1 beep The new number is stored
- 2 beeps The number is the same as a previously stored one

To erase a stored number

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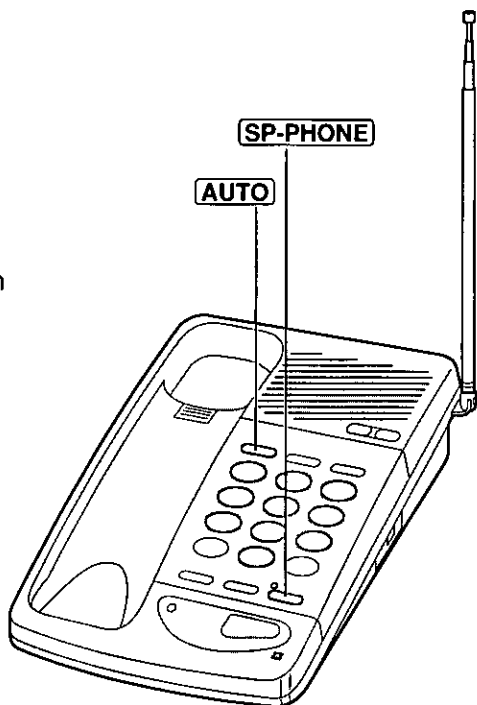
Memory sticker

You may use one of the included memory stickers as a memorandum for automatic dialing. Write down the names or phone numbers, then attach it to the unit or at a convenient place.

TO: STATION AUTOMATIC DIALER	
1	6
2	7
3	8
4	9
5	0
TEL NO	

Dialing a Stored Number

- 1 Press **SP-PHONE**
- 2 Press **AUTO**
- 3 Press the memory station number (0 to 9)
 - The stored number is dialed



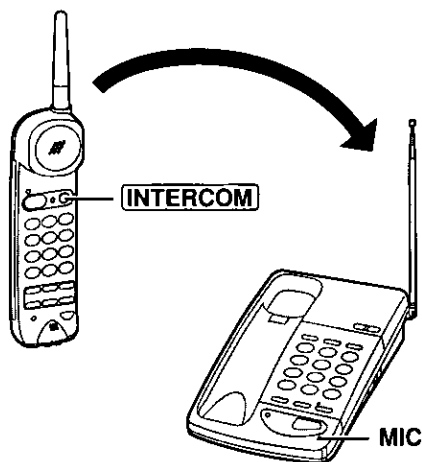
- Numbers stored in the base unit can only be dialed with the base unit

Intercom

A 2-way intercom is available between the handset and the base unit

Paging the base unit from the handset

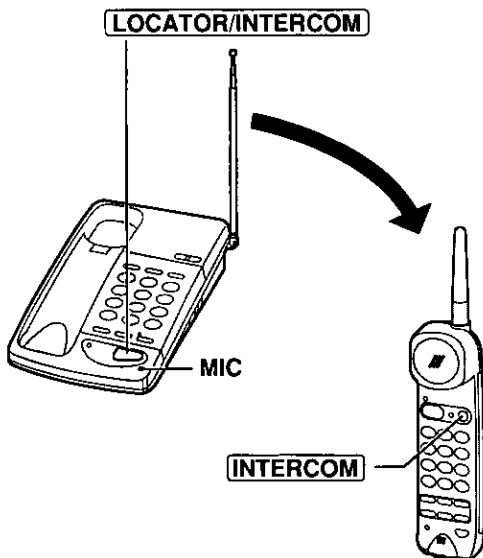
- 1 Handset
Press **INTERCOM**,
then speak
- 2 Base unit
When the other party's voice
is heard, answer through the
MIC
- 3 Handset
To end the intercom, press
INTERCOM



Paging the handset from the base unit (Handset locator)

Using this feature, you can locate the handset if misplaced

- 1 Base unit
Press
LOCATOR/INTERCOM
 - The handset beeps for
1 minute
 - To stop paging, press
LOCATOR/INTERCOM
again
- 2 Handset
Press **INTERCOM** to
answer
- 3 Base unit
Speak into the **MIC**
- 4 Handset
To end the intercom,
press **INTERCOM**



During the intercom:

- Intercom calls can only be ended with the handset.
- If the handset user has difficulty hearing the base unit user, decrease the speaker volume by pressing \checkmark .
- If two tones sound, it means an incoming call has been received. To answer, press **TALK** or **SP-PHONE**. The intercom is ended.

Transferring a Call Using Intercom

The intercom can be used during a call. This feature enables you to transfer the call between the handset and the base unit.

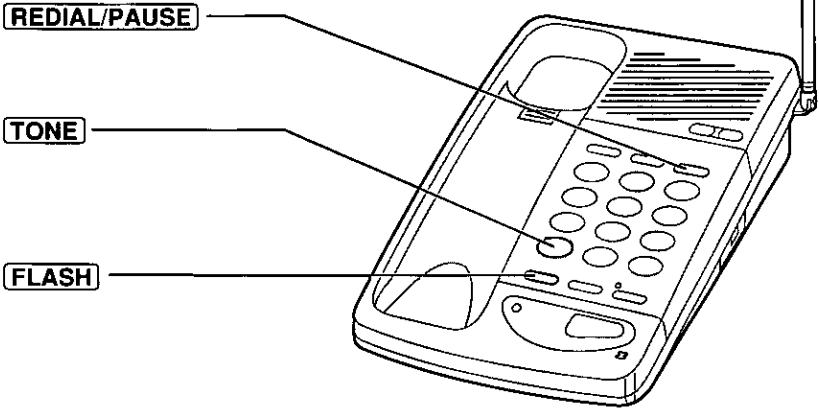
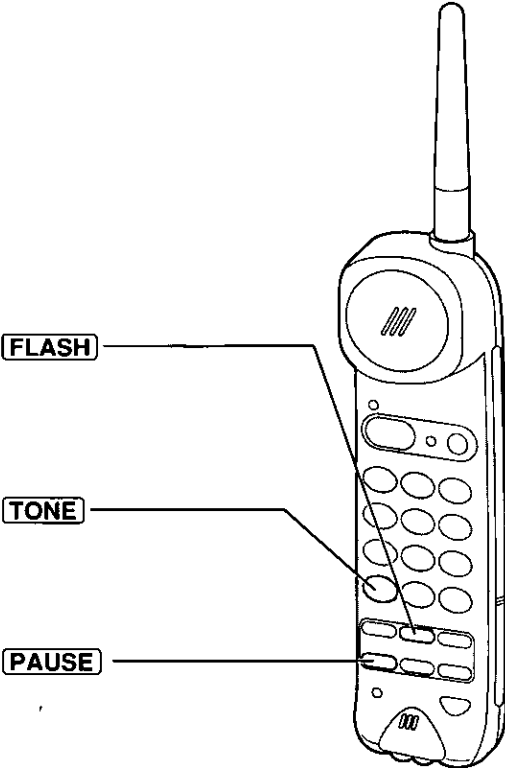
From the handset to the base unit

- 1** Handset:
During a call, press **INTERCOM**.
 - The call is put on hold.
- 2** Base unit:
When the paging party's voice is heard, answer through the **MIC**.
- 3** Base unit:
To answer the call, press **SP-PHONE**.
 - The transfer is completed.
 - The handset user can join the conversation by pressing **TALK**.

From the base unit to the handset

- 1** Base unit:
During a call, press **HOLD**.
 - The SP-PHONE indicator flashes.
- 2** Base unit:
Press **LOCATOR/INTERCOM**.
- 3** Handset:
Press **INTERCOM** to answer the page.
- 4** Handset:
To answer the call, press **TALK**.
 - The transfer is completed.
 - The base unit user can join the conversation by pressing **SP-PHONE**.

Special Features



Automatic Security Code Setting

Whenever you place the handset on the base unit, the unit automatically selects one of 65,000 security codes. These codes help to avoid unauthorized use of your telephone line by another cordless telephone.

For Call Waiting Service Users

Press **FLASH** lightly if you hear a call-waiting tone while speaking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **FLASH** again.

Temporary Tone Dialing (For Rotary Service Users)

Press **TONE** before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access answering systems, electronic banking services, etc. When you hang up, the mode returns to pulse.

If Your Unit is Connected to a PBX

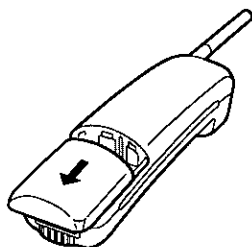
We recommend you press **PAUSE** or **REDIAL/PAUSE** between the access number for an outside line and the phone number.

- Pressing **PAUSE** or **REDIAL/PAUSE** once creates a 3.5 second pause. This prevents misdialing when you redial or dial a stored number. (**PAUSE** or **REDIAL/PAUSE** is counted as one digit.)

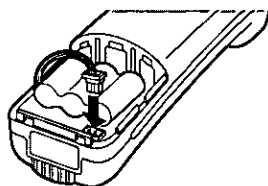
Battery Replacement

If the BATT LOW/PROG indicator flashes after being fully charged, replace with a new Panasonic KX-A36A battery (To order, call 1-800-332-5368) To prevent memory loss, replace within 5 minutes

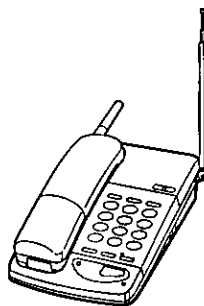
- 1 Remove the cover



- 2 Replace the battery, then close the cover



- 3 Charge the new battery for about 3 hours



Attention.

The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

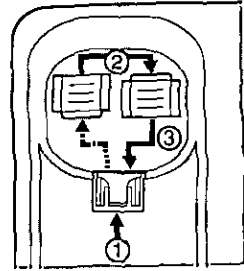


Wall Mounting

This unit can be mounted on a wall phone plate

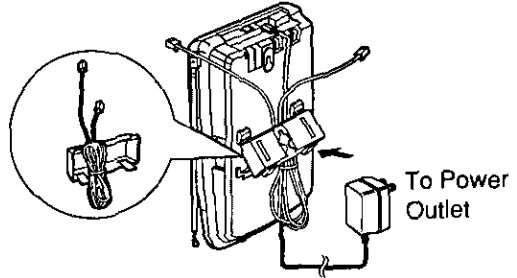
- 1** Reverse the handset hook in the cradle **so the tab holds the handset**

- ① Push to remove
- ② Rotate 180°
- ③ Replace it with the tab facing upwards



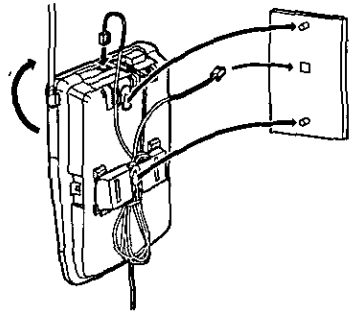
- 2** Connect the AC adaptor
Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow

- The word "UP" should face upward



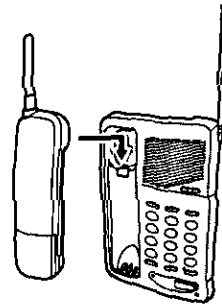
- 3** Connect the telephone line cord
Mount the unit, then slide down

- Extend the antenna fully



- 4** **To charge the battery:**
Place the handset on the handset hook as shown

- The IN USE/CHARGE/PROG indicator lights



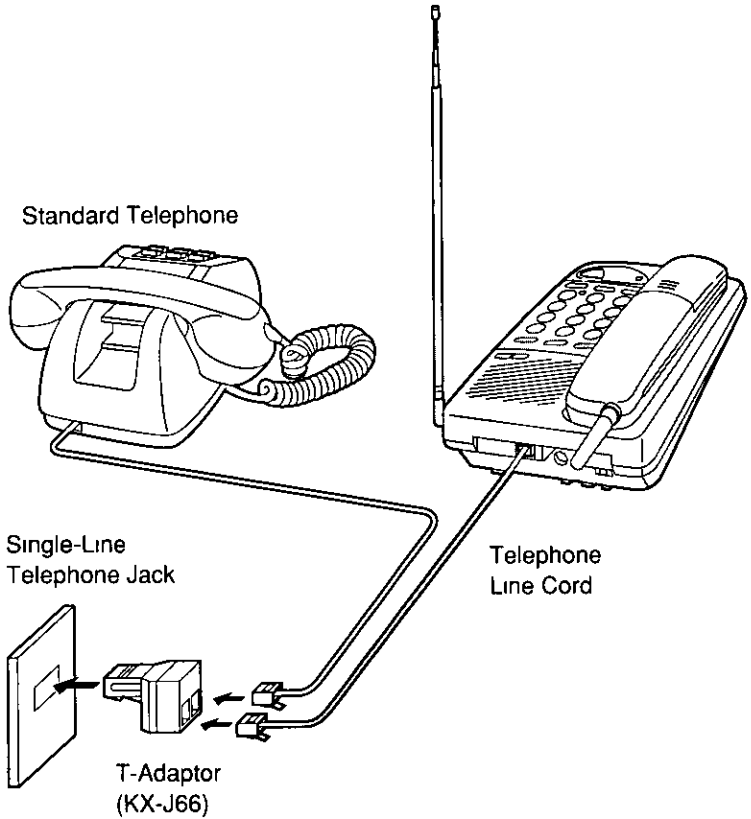
Before Requesting Help

Problem	Remedy
An alarm tone sounds when you press TALK or INTERCOM	<ul style="list-style-type: none">• You are too far from the base unit. Move closer and try again.• Place the handset on the base unit and try again.• Plug in the AC adaptor.• Clean the charge contacts and charge again.
The unit does not work	<ul style="list-style-type: none">• Check the setting up (p 8, 9)• Charge the battery fully• Clean the charge contacts and charge again
Static, sound cuts in/out, fades. Interference from other electrical units	<ul style="list-style-type: none">• Set the handset and the base unit away from other electrical appliances• Move closer to the base unit• Extend the base unit antenna fully• Press CH to change the channel
The handset does not ring	<ul style="list-style-type: none">• The ringer volume is OFF. Press VOLUME/RINGER when the TALK indicator light is off
The base unit does not ring	<ul style="list-style-type: none">• The RINGER selector is set to OFF. Set to HIGH or LOW
While using the speakerphone, the calling party complains that your voice is hard to hear	<ul style="list-style-type: none">• Press \checkmark to decrease your voice volume
You cannot store a phone number in memory	<ul style="list-style-type: none">• You cannot store a number while the unit is in the talk, speakerphone or intercom mode• Do not pause for over 30 seconds while storing
While storing a phone number, the unit starts to ring	<ul style="list-style-type: none">• To answer the call, press TALK or SP-PHONE. The program will be canceled. Store the number again

Problem	Remedy
LOCATOR/INTERCOM does not function.	<ul style="list-style-type: none"> • The handset is too far from the base unit or is engaged in an outside call.
While using the intercom, two tones sound.	<ul style="list-style-type: none"> • A call is being received. To answer, press TALK or SP-PHONE.
REDIAL/PAUSE does not function properly.	<ul style="list-style-type: none"> • The button has a double function as either redial or pause. It will redial the last dialed number if pressed at the outset of a call (p. 12). If another number has been dialed first, it will operate as a pause button (p. 21).
The BATT LOW/PROG indicator flashes or the unit beeps intermittently.	<ul style="list-style-type: none"> • Charge the battery fully.
You charged the battery fully, but the BATT LOW/PROG indicator flashes.	<ul style="list-style-type: none"> • Clean the charge contacts and charge again. • Install a new battery (p. 22).
The IN USE/CHARGE/PROG indicator light never goes out while charging.	<ul style="list-style-type: none"> • This is normal.
The unit stops working during operation.	<ul style="list-style-type: none"> • Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, then try again.
If you cannot solve your problem.	<ul style="list-style-type: none"> • Call our customer satisfaction center at 201-348-9090.

Adding Another Phone

This unit will not function during a power failure. To connect a standard telephone on the same line, use a Panasonic T-adaptor KX-J66 (To order, call 1-800-332-5368)



Important Safety Instructions



When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bath tub, wash bowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the unit.
 - C. If the unit has been exposed to rain or water.
 - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
 - E. If the unit has been dropped or physically damaged.
 - F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

Important Safety Instructions

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions

- 1 Use only the battery(ies) specified
- 2 Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions
- 3 Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed
- 4 Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns
- 5 Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE

FCC and Other Information



If requested by the telephone company, inform them as follows:

FCC Registration No.(found on the bottom of the unit)
Ringer Equivalence0.2B
The particular telephone line to which the equipment is connected.

This unit must not be connected to a coin operated line.

If you are on a party line, check with your local telephone company.

Ringer Equivalence No. (REN):

The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:

- (a) Promptly notify the customer.
- (b) Give the customer an opportunity to correct the problem with their equipment.
- (c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

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 before hanging up.
2. Perform such activities in the off-peak hours, such as early morning hours or late evenings.

FCC and Other Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

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.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce or eliminate interference.

Privacy of communications may not be ensured when using this phone.

- **Environment** — do not place the unit in room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you left the unit unused for long time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult with your telephone company.

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- This cordless telephone is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
 - Ce telephone sans fil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
 - Este telefono sin cordón fue elaborado para uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
 - このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

For product service

- Panasonic Servicenters are listed in the servicenter directory
- Call 1-800-545-2672 for the location of an authorized servicenter

When you ship the product

- Carefully pack your unit, preferably in the original carton
- Attach a letter, detailing the symptom, to the outside of the carton

Symptom

- Send the unit to an authorized servicenter, prepaid and adequately insured
- Do not send your unit to the Matsushita Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products

**Matsushita Consumer Electronics Company,
Division of Matsushita Electric Corporation of America**
One Panasonic Way, Secaucus, New Jersey 07094

**Panasonic Sales Company ("PSC"),
Division of Matsushita Electric of Puerto Rico, Inc.**
Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park
Carolina, Puerto Rico 00985