

Panasonic

2.4GHz Expandable Cordless Phone System

Model No. **KX-TG2770S**

Pulse-or-tone-dialing capability

Operating Instructions

Contents:

Location of Controls	2
Connections	5
Battery Installation/Battery Charge	6
Recording a Greeting Message	7
Making/Answering calls with the Cordless Handset	8
Making/Answering calls with the Base Unit	9
Caller ID Service	9
Automatic Answering Operation	10
Listening to Messages	10
Important Safety Instructions	11
FCC and Other Information	13

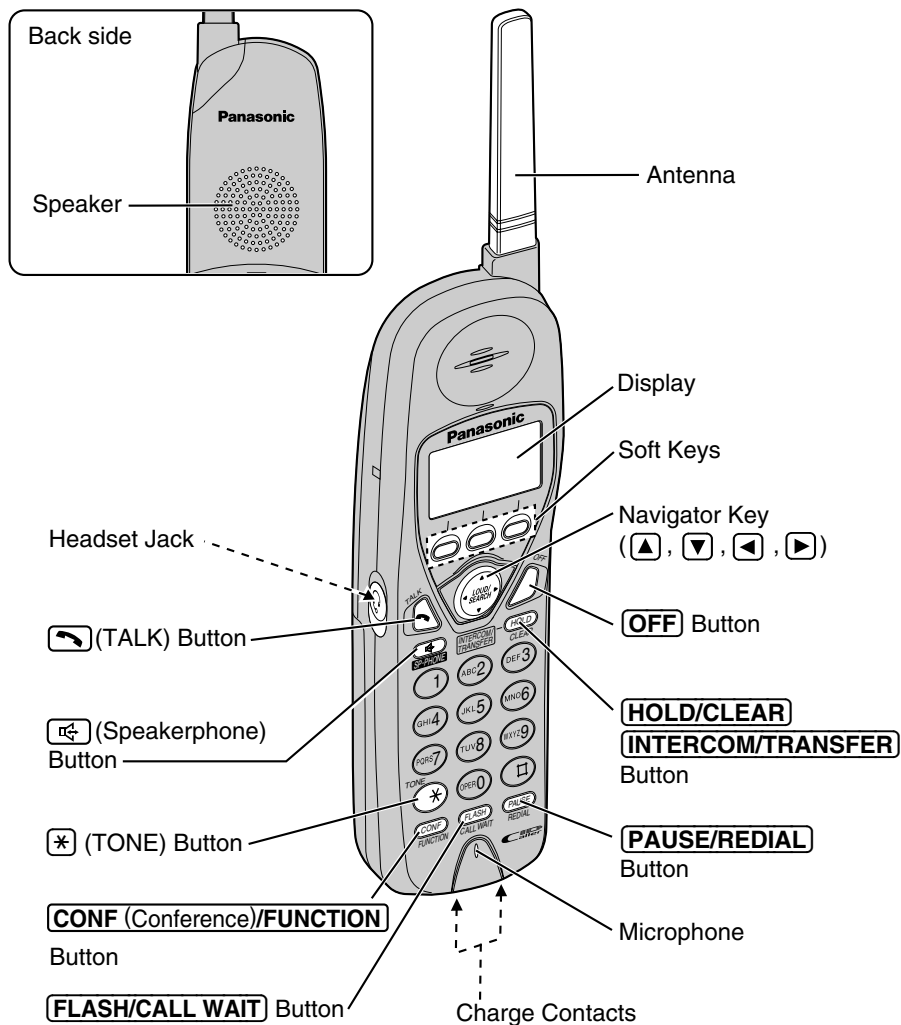
PLEASE READ BEFORE USE AND SAVE.

Charge the battery for about 15 hours before initial use.

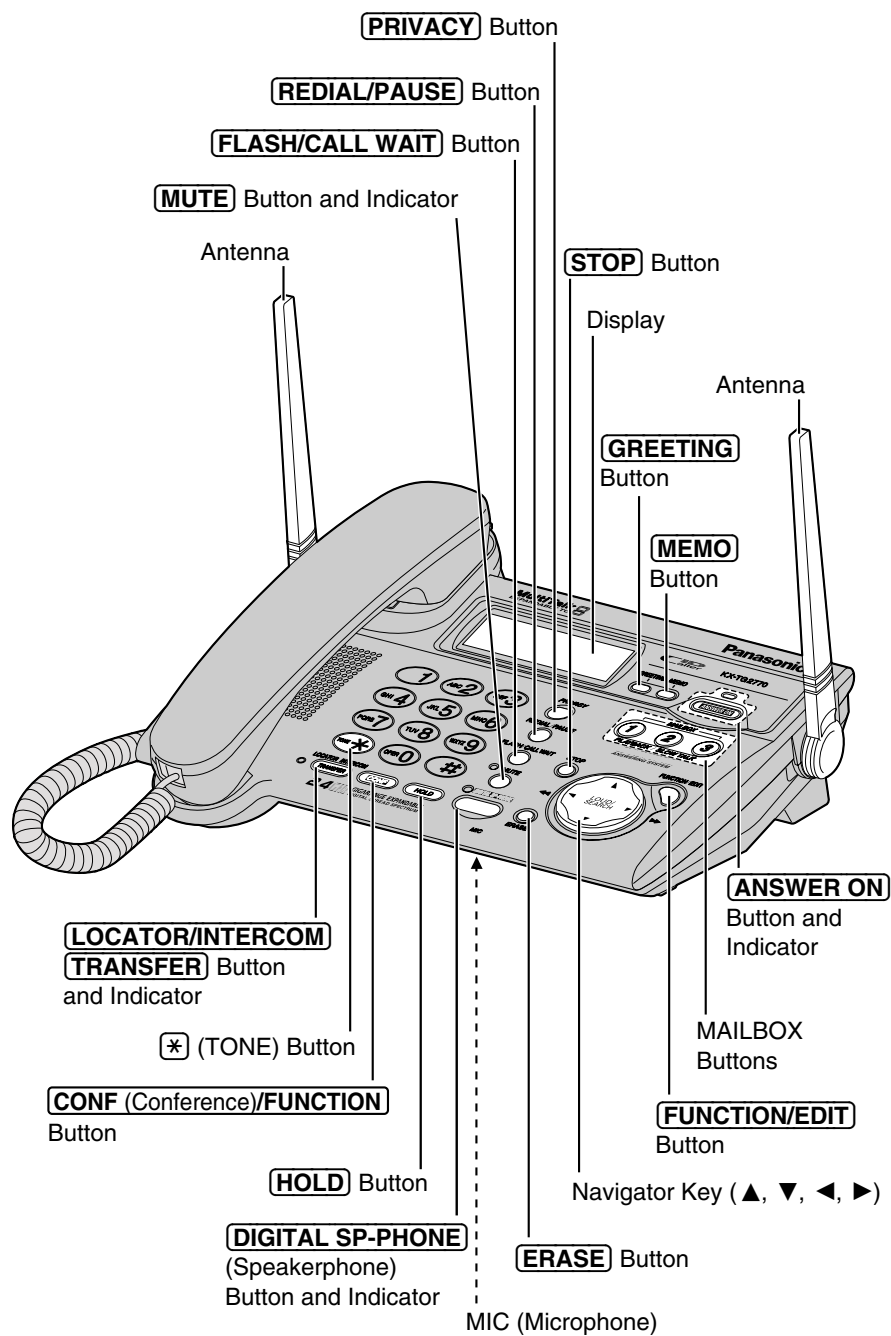
Please read **IMPORTANT SAFETY INSTRUCTIONS** on page 11 before use.
Read and understand all instructions.

Location of Controls

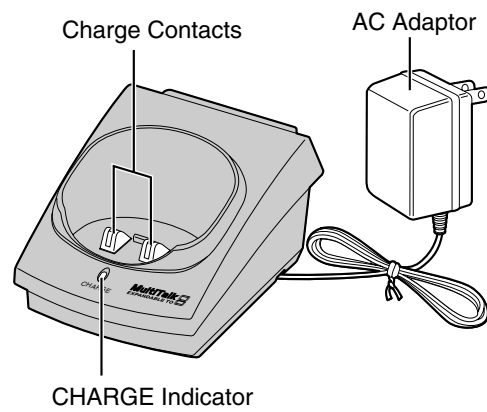
■ Cordless handset



■ Base unit

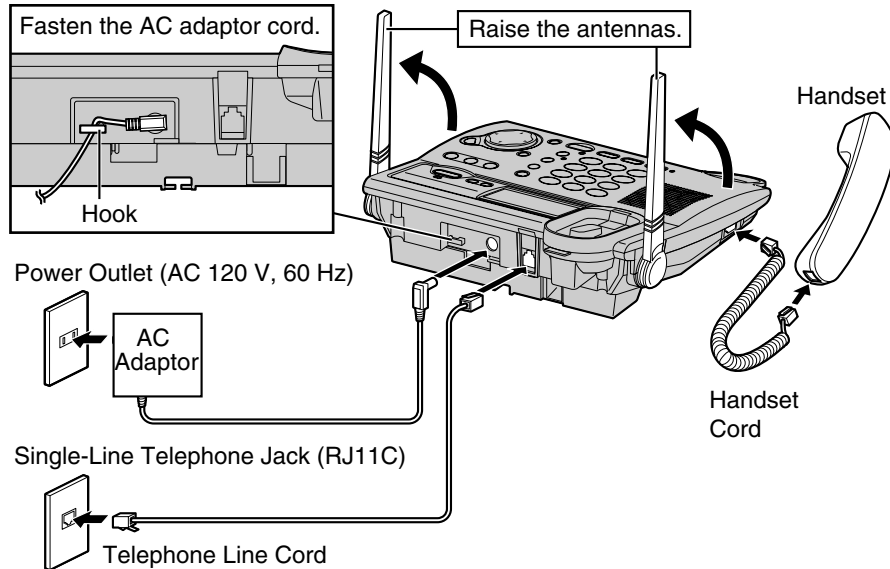


■ Charger unit



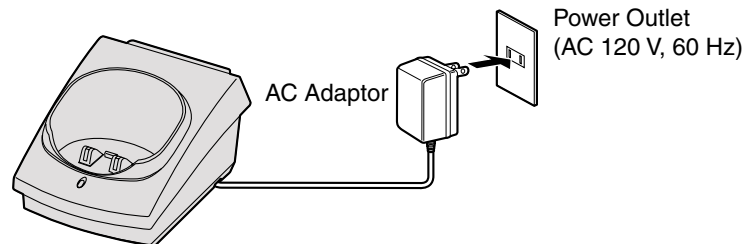
Connections

■ Base unit



- USE ONLY WITH Panasonic AC ADAPTOR.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)

■ Charger unit



- USE ONLY WITH Panasonic AC ADAPTOR KX-TCA1 (Order No. KX-TCA1-G).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)

Battery Installation/Battery Charge

■ Battery installation

- 1 Install the battery in the cordless handset.
- 2 Close the handset cover.

■ Battery charge

To power the cordless handset, charge the battery.

Place the cordless handset on the charger for about 15 hours before initial use.

■ Recharge

Recharge the battery when:

- "Recharge battery" is displayed,
- "■" flashes on the display, or
- the cordless handset beeps intermittently while it is in use.

- **Clean the handset and the base unit charge contacts with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** If not, the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the charger until "Recharge battery" is displayed and/or "■" flashes. This will maximize the battery life.
- The battery cannot be overcharged.

A nickel cadmium battery that is recyclable powers the product you have purchased. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.



Recording a Greeting Message

You can record a personal greeting message of **up to 2 minutes**. If a greeting message is not recorded, one of two pre-recorded greetings will be played when a call is received.

- All messages (greeting, incoming, etc.) are stored in digital memory. The **total recording time is about 15 minutes**. We recommend you record a **brief greeting message** in order to leave more time for recording new messages.

- 1 Press and hold **GREETING** until a long beep is heard.
- 2 After the long beep, talk clearly, about 8 inches (20 cm) away from the **MIC** (microphone).
- 3 When finished, press **GREETING**.

- If you do not record a greeting message, one of two messages will be played when a call is received, depending on the caller's recording time.

Making/Answering Calls with the Cordless Handset

■ To make a call

- 1 Press  or .
 - 2 Dial a telephone number.
 - 3 To hang up, press **OFF** or place the handset on the charger.
- If "No link to base. Walk closer to base and try again" is displayed and an alarm tone sounds in step 1, move closer to the base unit, and try again.
 - **To redial the last number**, press  or , then press **PAUSE/REDIAL**.
 - **To adjust the handset volume/speaker volume:**
To increase, press . To decrease, press .
 - **To put a call on hold**, press **HOLD/CLEAR**.
 - **To release the hold**, press **HOLD/CLEAR**.

■ To answer a call

Press  or .

Making/Answering Calls with the Base Unit

■ To make a call

- 1 Lift the handset off the cradle or press **DIGITAL SP-PHONE**.
- 2 Dial a telephone number.
- 3 Talk into the handset or the **MIC** (microphone).
- 4 To hang up, place the handset on the cradle or press **DIGITAL SP-PHONE**.

● **To redial the last number**, lift the handset off the cradle or press **DIGITAL SP-PHONE**, and then press **REDIAL/PAUSE**.

● **To adjust the handset volume/speaker volume:**

To increase, press **▲**. To decrease, press **▼**.

● **To put a call on hold**, press **HOLD**.

● **To release the hold:**

—when using the speakerphone, press **DIGITAL SP-PHONE** or lift the handset.

—when using the handset, press **HOLD**.

■ To answer a call

Lift the handset off the cradle or press **DIGITAL SP-PHONE**.

Caller ID Service

This unit is compatible with a Caller ID service offered by your telephone company.

After subscribing to a Caller ID service, the calling party's information will be displayed after the first ring.

The unit can record information of up to 50 different callers in the caller list. The Caller List information is sorted from the most recent to the oldest call. When the unit receives the 51st call, the oldest call is deleted.

If your unit is connected to a PBX system which does not support Caller ID services, you cannot access those services. Please consult your equipment supplier.

Automatic Answering Operation

■ How to use the mailboxes

The unit accommodates three mailboxes (Mailbox 1, 2 and 3). A caller can leave a message in a specified mailbox. If a mailbox is not specified, messages are recorded in the mailbox 1.

■ When a caller calls

The caller can select a mailbox by pressing **#** and **1** (Mailbox 1), pressing **#** and **2** (Mailbox 2) or pressing **#** and **3** (Mailbox 3), while the greeting is played. The caller can then record a message in the mailbox after a beep.

OR

The caller waits until the greeting finishes, and records a message after a beep. The message will be recorded in the Mailbox 1.

■ Setting the unit to answer calls

Press **ANSWER ON** to turn on the answering system.

- The indicator lights and “Answer set” is heard.

Listening to Messages

You can see the total number of recorded messages on the base unit display. If the ANSWER ON indicator flashes and the mailbox icon(s) flash(es) on the display, new messages have been recorded in the mailbox(es).

To listen to the messages, press **MAILBOX 1**, **MAILBOX 2** or **MAILBOX 3**.

- **When you have new messages**, the unit announces the number of new messages and plays them back.
- **When you have no new messages**, the unit plays back all recorded messages.

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 bathtub, washbowl, 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 servicer 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 servicer 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 servicer.
 - 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

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.

- The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

FCC and Other Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:ACJ-----.

If requested, this number must be provided to the telephone company.

Registration No.(found on the bottom of the unit)

Ringer Equivalence No. (REN)1.0B

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of 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. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment 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.

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.

If trouble is experienced with this equipment, for repair or warranty information, please contact a Factory Servicenter or other Authorized Servicer. 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.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

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.

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.

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

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.

Operating near 2.4GHz electrical appliances may cause interference. Move away from the electrical appliances.

CAUTION:

To comply with FCC RF exposure requirements, the base unit should be installed with its antenna located at 1.5 cm or more from persons and handset should be carried with the specific belt-clip provided for the handset to ensure compliance. Other non-tested belt-clips or similar body-worn accessories may not comply, therefore, should be avoided.

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult with your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

- **Environment** — do not place the unit in a 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.
- **Medical** — consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 2400MHz to 2480MHz, and the power output level can range 0.04 watts to 0.161 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of 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 a Factory Servicenter or other Authorized Servicer. If the known working phone does not operate properly, consult your telephone company.

For product service

- Call 1-800-211-PANA(7262) for the location of an authorized servicer.
- Panasonic's e-mail address for customer inquiries:
consumerproducts@panasonic.com
for customers in the USA or Puerto Rico ONLY

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

- 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 téléphone 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 teléfono 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。

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

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