TG2431.book Page 1 Wednesday, September 22, 2004 1:17 PM

Panasonic®

Operating Instructions

2.4 GHz Digital Cordless Answering System

Model No. **KX-TG2431**

This unit is compatible with Caller ID. To use this feature, you must subscribe to the appropriate service of your service provider.

Charge the battery for 6 hours before initial use.

Please read these Operating Instructions before using the unit and save for future reference.

For assistance, visit our website: **http://www.panasonic.com** for customers in the U.S.A. or Puerto Rico.

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 power 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, wash bowl, kitchen sink, etc.
5. Place the 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 power 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 service center 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 power outlets and refer servicing to an authorized service center when the following conditions occur:
    A. When the power cord 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 service center.
    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:

Installation

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.

- Do not touch the plug with wet hands.

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 2400 MHz to 2481 MHz, and the power output level can range from 0.04 to 0.1 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.

Battery

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

- Use only the battery(ies) specified.
- Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
- 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.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
- 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.
- Do not immerse in water or leave under running water.
- Keep the handset away from salt water.
- Avoid exposure to prolonged high humidity.
- Since water in headset jack may cause damage, close the headset jack cover when the optional headset is not in use. When the optional headset is connected, do not use the handset with wet hands.
- If the handset is wet, wipe with a soft dry cloth.
- The base unit is not designed to be splash resistant. Do not place the wet handset on the base unit.

WARNING:

- To prevent the risk of fire or electrical shock, 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.

For best performance

Base unit location

The base unit and handset use radio waves to communicate with each other. For maximum distance and noise-free operation, we recommend the following:

- Placing the unit away from electrical appliances such as a TV, personal computer or another cordless phone.
- Placing the base unit in a HIGH and CENTRAL location with no obstructions such as walls.
- Raising the antenna vertically.
- If you use the handset near a microwave oven which is being used, noise may be heard. Move away from the microwave oven and closer to the base unit.
- If you use the handset near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

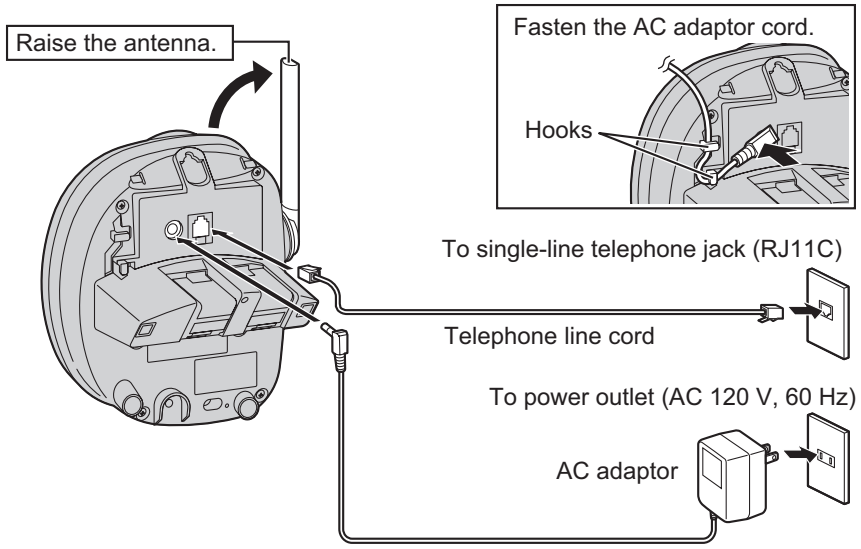
Environment

- Keep the unit away from electrical noise generating devices, such as fluorescent lamps and motors.
- The unit should be kept free from dust, high temperature and vibration.
- The unit should not be exposed to direct sunlight.
- Do not place heavy objects on top of the unit.
- When you leave the unit unused for a long period of time, unplug this unit from power outlet.
- The unit should be kept away from heat sources such as heaters, kitchen stoves, etc. It should not be placed in rooms where the temperature is less than 5 °C (41 °F) or greater than 40 °C (104 °F). Damp basements should also be avoided.
- Operating near 2.4 GHz electrical appliances may cause interference. Move away from the electrical appliances.

Routine care

- Wipe the outer surface of the unit with a soft cloth. Do not use benzine, thinner or any abrasive powder.

Connections

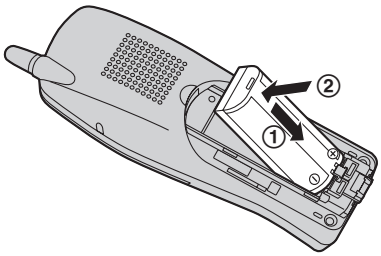


Note:

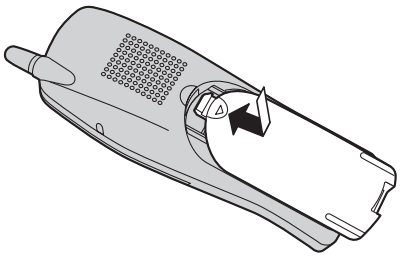
- Use only the included Panasonic AC adaptor PQLV19.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.

Battery installation

1 Insert the battery (①), and press it down until it snaps into the compartment (②).



2 Close the handset cover.



Battery charge

Place the handset on the base unit for **6 hours** before initial use.

- The unit beeps once, the CHARGE indicator will light, and "**Charging**" will be displayed.
- "**Charge completed**" is displayed when the battery has been fully charged. The CHARGE indicator will remain lit.

Note:

- To ensure the battery charges properly, clean the charge contacts of the handset and base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.

Recharging the battery

Recharge the battery when:

– "**Recharge battery**" is displayed or ▭ flashes on the handset display.

– the handset beeps intermittently while it is in use.

Note:

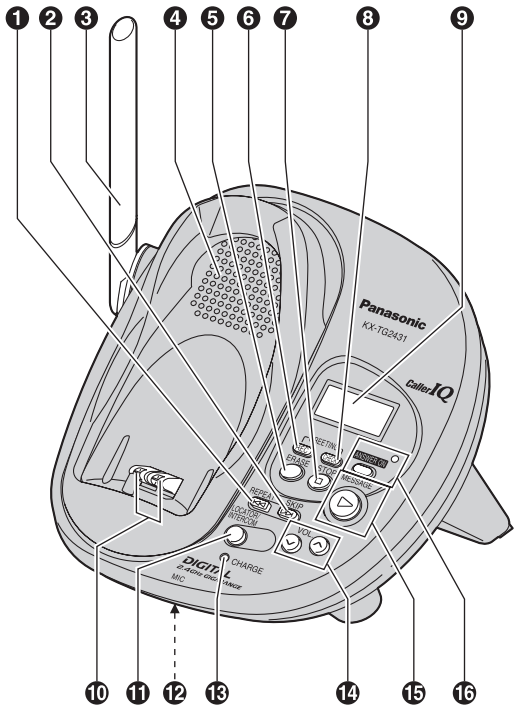
- Recharge the handset battery for more than 15 minutes, or the display will continue showing the indication.
- If the battery has been discharged, the handset will display "**Charge for 6h**" and ▭ when you place the handset on the base unit.
- Battery power is consumed whenever the handset is off the base unit, even when the handset is not in use. The longer you leave the handset off the base unit, the shorter you can actually talk on the handset. Actual battery performance depends on a combination of how often the handset is in use and how often it is not in use.
- Once the battery is fully charged, you do not have to charge it again until "**Recharge battery**" is displayed or ▭ flashes. This will maximize the battery life.

Attention:

A nickel metal hydride battery that is recyclable powers the product you have purchased.
Please call 1-800-8-BATTERY for information on how to recycle this battery.

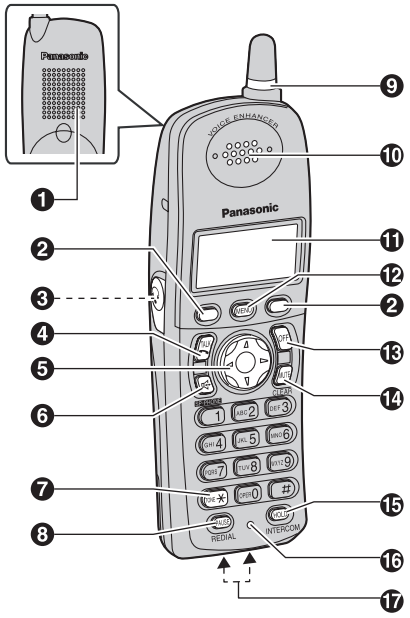
Controls

Base unit



❶ 【◀◀】(Repeat)
❷ 【▶▶】(Skip)
❸ Antenna
❹ Speaker
❺ 【ERASE】
❻ 【GREETING REC】(Recording)
❼ 【STOP】
❽ 【GREETING CHECK】
❾ Display
❿ Charge contacts
⓫ 【LOCATOR/INTERCOM】
⓬ MIC (Microphone)
⓭ CHARGE indicator
⓮ VOL. (Volume) 【∨】【∧】
⓯ 【MESSAGE】
MESSAGE indicator
⓰ 【ANSWER ON】
ANSWER ON indicator

Handset



❶ **Speaker**
❷ **Soft key**
❸ **Headset jack**
❹ **【 】(TALK)**
❺ **Navigator key**
❻ **【 】(SP-PHONE)**
❼ **【✳】(TONE)**
❽ **【PAUSE】【REDIAL】**
❾ **Ringer indicator**
Message indicator
❿ **Receiver**
⓫ **Display**
⓬ **【MENU】**
⓭ **【OFF】**
⓮ **【MUTE】【CLEAR】**
⓯ **【HOLD】【INTERCOM】**
⓰ **Microphone**
⓱ **Charge contacts**

Making calls

1 Lift the handset and press 【 】.
- "**Talk**" will be displayed.

2 Dial the phone number.

3 When finished talking, press 【**OFF**】 or place the handset on the base unit.

Note:
- "**Line in use**" is displayed when someone is talking on another phone.

To adjust the receiver volume

3 levels (high/medium/low) are available. While using the receiver, press 【▼】 or 【▲】 repeatedly.

To use the speakerphone

1 Lift the handset and press 【 】.
- "**SP-phone**" will be displayed.

2 Dial the phone number.

3 When the other party answers, talk into the microphone.

4 When finished talking, press 【**OFF**】 or place the handset on the base unit.

Note:
- Talk alternately with the caller in a quiet room.
- If the other party has difficulty hearing you, press 【▼】 to decrease the speaker volume.
- While on a call, you can switch from the receiver to the speakerphone by pressing 【 】. To switch back to the receiver, press 【 】.

To adjust the speaker volume

6 levels (high to low) are available. While using the speaker, press 【▼】 or 【▲】 repeatedly.

To redial the last number dialed

1 Press 【 】 or 【 】.

2 Press 【**REDIAL**】.

Answering calls

When a call is being received, the ringer indicator flashes rapidly.

1 Lift the handset and press 【 】 or 【 】.

2 When finished talking, press 【**OFF**】 or place the handset on the base unit.

Using Caller ID service

This unit is Caller ID compatible. To use Caller ID features, you must subscribe to your telephone company's Caller ID service.

Caller ID features

When an outside call is being received, the calling party's name or telephone number will be displayed.
Caller information for the last 50 different callers will be logged in the caller list, allowing you to return missed calls. Caller information is stored by the most recent call to the oldest.

- If the unit is connected to a PBX system, caller information may not be received properly. Consult your PBX supplier.

Recording your greeting message

You can record your own greeting message (max. 2 minutes) that will be played when the answering system answers a call. If you do not record a greeting message, a pre-recorded greeting message will be used.

1 Press **【GREETING REC】**.
- The unit announces "*To record greeting, press record again.*"

2 Within 10 seconds, press **【GREETING REC】** again.

3 After the unit beeps, speak clearly about 20 cm (8 inches) away from the MIC.
- The display will show the elapsed recording time.

4 To stop recording, press **【GREETING REC】** or **【STOP】**.

Turning the answering system on/off

Press **【ANSWER ON】**.

- When the answering system is turned on, the ANSWER ON indicator lights and the unit announces "*Answer set*" and the day and time.
- When the answering system is turned off, the ANSWER ON indicator turns off and the unit announces "*Answer off*".

Listening to messages

When new messages have been recorded:

– The MESSAGE indicator on the base unit will flash.
– The message indicator on the handset will flash slowly if the message alert feature is turned on.

The base unit display will show the number of messages (old and new) recorded by the answering system.
Example: The total number of recorded messages is 10.

Listening to messages using the base unit

Press **【MESSAGE】**.

- The unit will announce the number of new messages and will play back the new messages.
- When you have no new messages, the unit will announce "*No new messages. All message playback*", and will play back all messages.

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).....0.1B

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.

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.

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.

The software contained in this equipment to allow user access to the network must be upgraded to recognize newly established network area codes and exchange codes as they are placed into service. Failure to upgrade the premises systems or peripheral equipment to recognize the new codes as they are established will restrict the customer and the customer's employees from gaining access to the network and to these codes.

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.

FCC RF Exposure Warning:
This product complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF exposure requirements the base unit must be installed and operated with its antenna located 20 cm or more between antenna and all person's body (excluding extremities of hands, wrist and feet). The handset unit may be carried and operated with only the specific provided belt-clip. Other non-tested belt-clips or similar body-worn accessories may not comply and must be avoided. The base and handset units must not be co-located or operated in conjunction with any other antenna or transmitter.

openLCR service for the Caller IQ feature

This unit is compatible with service provided by openLCR.

Important:
See the leaflet included with this unit for more information.

- **If you have any questions regarding the openLCR service, visit www.openLCR.com or call openLCR at 1-866-openLCR (1-866-6736527).**
- **NEITHER PANASONIC COMMUNICATIONS CO., LTD. NOR MATSUSHITA ELECTRIC CORPORATION OF AMERICA IS IN ANY WAY AFFILIATED WITH, OR RESPONSIBLE FOR THE ACTS OR OMISSIONS OF, OPENLCR.COM, INC. NEITHER PANASONIC COMMUNICATIONS CO., LTD. NOR MATSUSHITA ELECTRIC CORPORATION OF AMERICA NOR ANY OF THEIR EMPLOYEES OR AFFILIATES OR CUSTOMERS MAKE ANY WARRANTIES OR REPRESENTATIONS, EITHER EXPRESS OR IMPLIED, TO ANY CUSTOMER OR ANY OTHER THIRD PARTY WITH RESPECT TO ANY OF THE SERVICES PROVIDED BY OPENLCR.COM, INC., NOR ASSUME NOR CREATE ANY OTHER OBLIGATION OF ANY KIND ON BEHALF OF OPENLCR.COM, INC.**
- The Caller IQ service can only be activated after registering with openLCR at www.openLCR.com. More information regarding the openLCR service is available on the Internet at www.openLCR.com.

If you need assistance with setup or operation;

1 Visit our website: http://www.panasonic.com/support

2 Contact us via the web at: http://www.panasonic.com/contactinfo

3 Call us at: 1-800-211-PANA (7262)
TTY users (hearing or speech impaired users) can call 1-877-833-8855.

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.
- Send the unit to Panasonic Services Company Customer Servicenter, prepaid and adequately insured.
- Do not send your unit to 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 inalámbrico 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。

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