

Temporary Confidential

Panasonic

2.4 GHz Cordless Phone System
with Fax and Copier

Operating Instructions

Model No. **KX-FG2451**

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

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For your future reference

Date of purchase

Serial number

(found on the rear of the unit)

Dealer's name and address

Dealer's telephone number

Caution:

- The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.)

In order to program this information into your fax machine, you should complete the instructions on page 5 to page 7.

- Note that the images of copied or received documents will remain on the used film. When disposing of the used film, use discretion.
- Do not rub or use an eraser on the printed side of recording paper, as the print may smear.

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 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. For safety purposes this product is equipped with a three prong grounded plug. If you do not have this type of outlet, please have one installed. Do not use any type of adaptor plug to defeat this safety feature.
9. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
10. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
11. 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.
12. 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.
13. 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.
14. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
15. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

INSTALLATION:

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

WARNING:

To prevent the risk of fire or electrical shock, do not expose this product to rain or any type of moisture.

OTHER INFORMATION

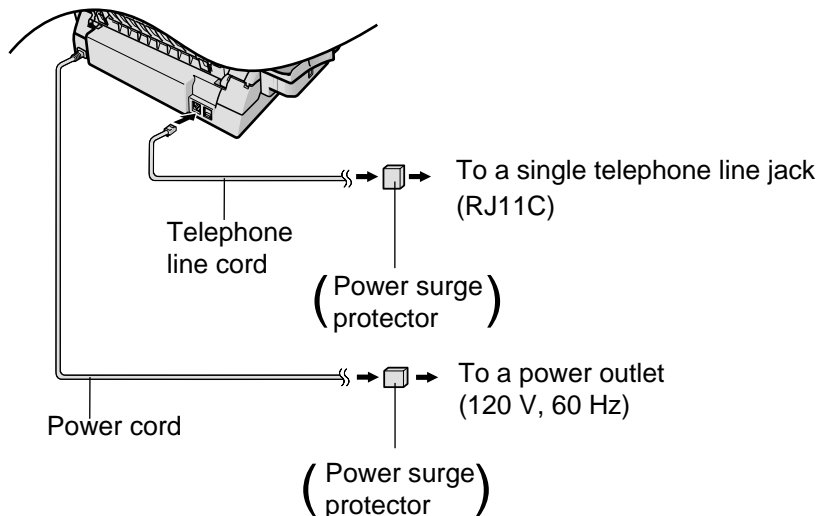
- Keep the unit away from electrical noise-generating devices, such as fluorescent lamps and motors.
- The unit should be kept free from dust, high temperature and vibration.
- The unit should not be exposed to direct sunlight.
- Do not place heavy objects on top of this unit.
- Do not touch the plug with wet hands.

Recording paper

- 1 Fan the stack of paper to prevent a paper jam.
- 2 Insert the paper into the paper tray.

Connections

- 1 Connect the telephone line cord.
- 2 Connect the power cord.



Caution:

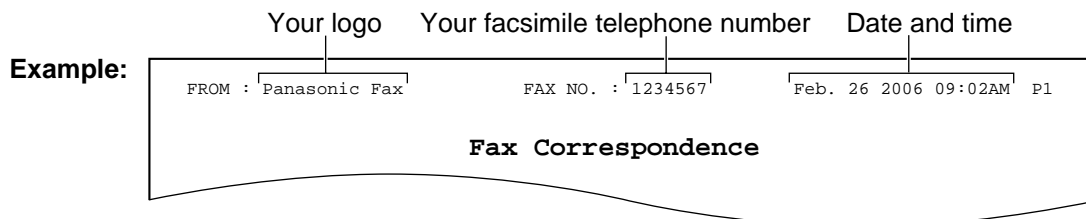
- When you operate this product, the power outlet should be near the product and easily accessible.

Note:

- The warranty does not cover damage due to power line surges or lightning. For additional equipment protection, we recommend you use a surge protector.

Date and time, your logo and facsimile telephone number

You should program the date and time, your logo and facsimile telephone number. This information will be printed on each page transmitted from your unit.



Setting the date and time

- 1 Press **MENU**.
- 2 Press **□**, then **0 1**.
- 3 Press **SET**.
- 4 Enter the correct month/day/year by selecting 2 digits for each, using the dial keypad.
Example: Aug. 10, 2006
Press **0 8 1 0 0 6**.
- 5 Enter the correct hour/minute by selecting 2 digits for each, using the dial keypad.
Press ***** to select "AM" or "PM".
Example: 3:15PM
 1. Press **0 3 1 5**.
 2. Press ***** until "PM" is displayed.
- 6 Press **SET**.
- 7 Press **MENU**.

Setting your logo

The logo can be your company, division or name.

1 Press **MENU**.

2 Press **☰**, then **0 2**.

3 Press **SET**.

4 Enter your logo, up to 30 characters, using the dial keypad. See right for details.

Example: "Bill"

1. Press **2** five times.
2. Press **4** three times.
3. Press **5** three times.
4. Press **▶** to move the cursor to the next space and press **5** three times.

5 Press **SET**.

6 Press **MENU**.

To select characters with the dial keypad

Pressing the dial keys will select a character as shown below.

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

Note:

- To enter another character located on the same number key, press **▶** to move the cursor to the next space.

Setting your facsimile telephone number

- 1** Press **MENU**.
- 2** Press **Ⓜ**, then **0 3**.
- 3** Press **SET**.
- 4** Enter your facsimile telephone number, up to 20 digits, using the dial keypad.
- 5** Press **SET**.
- 6** Press **MENU**.

Adjusting base unit volumes --- ---

Ringer volume

While the unit is idle, press **+** or **-**.

- If any documents are in the document entrance, you cannot adjust the ringer volume. Confirm that there are no documents in the entrance.

Speaker volume

While using the speakerphone, press **+** or **-**.

Fax voice guidance volume

While listening to the fax voice guidance, press **+** or **-**.

Answering device volume

While listening to the recorded messages, press **+** or **-**.

Phone calls - making --- ---

With the handset

- 1** Handset is off the base unit:
Press **TALK**.
- 2** Dial the telephone number.
- 3** When finished talking, press **OFF** or place the handset on the base unit.

With the base unit

- 1** Press **SP-PHONE**.
- 2** Dial the telephone number.
- 3** When the other party answers, talk into the microphone.
- 4** When finished talking, press **SP-PHONE**.

To redial the last number

1. Press **TALK** or **SP-PHONE**.
2. Press **REDIAL**.

Phone calls - answering

With the handset

1 Handset is off the base unit:

Press **TALK** when the handset rings.

- You can also answer a call by pressing any dial key 0 to 9, *, or #.

(Any key talk feature)

Handset is on the base unit:

Lift the handset when the base unit rings.

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

With the base unit

1 When the base unit rings, press **SP-PHONE**.

2 When finished talking, press **SP-PHONE**.

Sending a fax manually

1 Adjust the width of the document guides to the size of the document.

2 Insert the document (up to 10 pages) **FACE DOWN** until a single beep is heard and the unit grabs the document.

3 Press **SP-PHONE**.

4 Dial the fax number.

5 When a fax tone is heard:

Press **FAX/START**.

OR

When the other party answers your call:

Ask them to press their start button. When the fax tone is heard, press **FAX/START**.

To redial the last number

Press **REDIAL**.

- If the line is busy, the unit will automatically redial the number.
- To cancel redialing, press **STOP**.

Receiving Faxes

Receiving a fax using the base unit

- 1** When the unit rings, press **SP-PHONE**.
- 2** When:
 - document reception is required,
 - a fax calling tone (slow beep) is heard, or
 - no sound is heard,press **FAX/START**.
 - The unit will start fax reception.

Receiving a fax using the handset

- 1** When the handset rings, press **TALK** or **SP-PHONE**.
- 2** When:
 - document reception is required,
 - a fax calling tone (slow beep) is heard, or
 - no sound is heard,press *** # 9** until a single beep is heard.
 - The unit will start fax reception.

FCC and Other Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the rear 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 rear of the unit)
- Ringer Equivalence No. (REN)
.....(found on the rear of the unit)

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.

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 digital devices.

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.

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.

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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.

Limited Warranty

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

Panasonic Facsimile Product Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as “the warrantor”) will, for the length of the period indicated on the chart below, which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

FAX categories	Parts	Labor
Thermal Transfer Facsimile	6 Months	6 Months
Laser Facsimile	1 (one) Year	1 (one) Year

Batteries, antennas, optional accessories (such as additional handsets), ink film, toner cartridge, drum unit, and ink cartridge (as may be applicable), and cosmetic parts (cabinet) are not warranted under this Limited Warranty.

During the “Labor” Limited Warranty period there will be no charge for labor. During the “Parts” Limited Warranty period, there will be no charge for parts. You must carry-in or mail-in your product during the Limited Warranty period. This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of the original purchase date is required for Limited Warranty service.

Carry-In or Mail-In Service

For Carry-In or Mail-In Service in the United States call 1-800-HELP-FAX (1-800-435-7329)

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor such as non Panasonic ink film, toner cartridge or drum unit, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, signal reception problems, misadjustment of consumer controls, improper maintenance, power line surge, improper voltage supply, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER “LIMITED WARRANTY COVERAGE”. THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

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Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied Limited Warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

For In Limited Warranty product service

- Call toll-free 1-800-HELP-FAX (1-800-435-7329) for the location of an authorized servicenter.

For out of Limited Warranty technical and troubleshooting support: Panasonic offers two value based, cost effective, solutions:

1. Panasonic Continued Services 900 fee based support: 1-900-FAX-HELP (1-900-329-4357)

This exceptional service is charged directly to your telephone bill at only \$1.99 per minute.

2. Panasonic Premier Service Club (PPSC): 1-800-435-7329

PPSC provides toll free troubleshooting support at only \$7.99 for a one time sampler or \$23.95 for a one year or 5 call membership. These services are billed directly to your major credit card.

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom or problem, to the outside of the carton.
- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company or to any executive or regional sales office. These locations do not repair consumer products.

Both of these comprehensive programs provide real time, live agent support for customers who are not eligible for coverage under the limited warranty.

Terms and prices are subject to change without notice.

Technical data about this product

Applicable Lines:	Public Switched Telephone Network
Document Size:	Max. 216 mm (8½") in width / Max. 600 mm (23⅝") in length
Effective Scanning Width:	208 mm (8⅜")
Recording Paper Size:	Letter: 216 mm x 279 mm (8½" x 11") Legal: 216 mm x 356 mm (8½" x 14") A4: 210 mm x 297 mm (8¼" x 11⅞")
Effective Printing Width:	Letter/Legal: 208 mm (8⅜") A4: 202 mm (7⅞")
Transmission Time*:	Approx. 15 s/page (Original mode)**
Scanning Density:	Horizontal: 8 pels/mm (203 pels/inch) Vertical: 3.85 lines/mm (98 lines/inch)–STANDARD mode 7.7 lines/mm (196 lines/inch)–FINE/PHOTO mode 15.4 lines/mm (392 lines/inch)–SUPER FINE mode
Halftone Level:	64-level
Scanner Type:	Contact Image Sensor (CIS)
Printer Type:	Thermal Transfer on plain paper
Data Compression System:	Modified Huffman (MH), Modified READ (MR)
Mode Speed:	9,600 / 7,200 / 4,800 / 2,400 bps; Automatic Fallback
Operating Environment:	5 °C – 35 °C (41 °F – 95 °F), 20% – 80% RH (Relative Humidity)
Power Supply:	120 V AC, 60 Hz

* Transmission speed depends upon the contents of the pages, resolution, telephone line conditions and capability of the other party's machine.

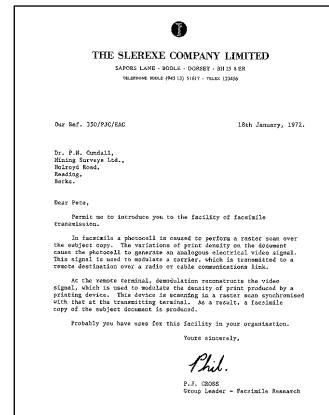
** Transmission speed is based upon the ITU-T No. 1 Test Chart and original mode.

If the capability of the other party's machine is inferior to your unit, the transmission time may be longer.

Note:

- Any details given in these instructions are subject to change without notice.
- The pictures and illustrations in these instructions may vary slightly from the actual product.

ITU-T No. 1 Test Chart



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