

Panasonic®

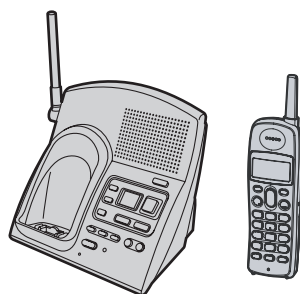
Operating Instructions

2.4 GHz Cordless Answering System

Model No. **KX-TG2130**

2.4 GHz Cordless Answering System
with Two Handsets

Model No. **KX-TG2132**



Model shown is KX-TG2130.

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

**Charge the handset battery for 12 hours before initial use.
Place each handset on the base unit once before initial use to activate all handsets.**

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

For assistance, visit our website:

<http://www.panasonic.com/phonehelp> for customers in the U.S.A. or Puerto Rico.

Introduction

Introduction

Thank you for purchasing a Panasonic cordless telephone.

We recommend keeping a record of the following information for future reference.

Serial No. _____

Date of purchase _____

(found on the bottom of the base unit)

Name and address of dealer _____

Attach your purchase receipt here.

About these operating instructions

Notable differences between KX-TG2130 and KX-TG2132

These operating instructions can be used for the following models:

KX-TG2130 features 1 handset.

KX-TG2132 features 2 handsets.

Important:

- References in these operating instructions to “a charger” or “another handset” are for KX-TG2132 users only.

Symbols used in these operating instructions

Symbol	Meaning
[] : button name Example: Unit keys: [] , [OFF]	The words in the brackets indicate button names on the handset and base unit.
Example: “LANGUAGE”	The words in quotations indicate the menu on the display.
Handset: [] []	Press up or down on the handset CID/VOL. button.

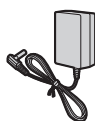
Introduction

Accessory information

Included accessories

No.	Accessory item	Order number	Quantity	
			KX-TG2630W	KX-TG2632W
①	AC adaptor	PQWATG2120M	1	1
②	Telephone line cord	PQJA10075Z	1	1
③	Battery	P-P504	1	2
④	Handset cover	PQYNTG2120W	1	2
⑤	Charger	PQWETGA211W	-	1

①



②



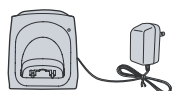
③



④



⑤



Additional/replacement accessories

Accessory item	Order number
Rechargeable battery	P-P504 or HHR-P501
Headset	KX-TCA60, KX-TCA86, KX-TCA88HA, KX-TCA91, KX-TCA92, or KX-TCA98
T-adaptor	KX-J66

Sales and support information

- To order replacement accessories, call 1-800-332-5368.
- TTY users (hearing or speech impaired users) can call 1-866-605-1277.

Introduction

Important safety instructions

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

1. Read all instructions carefully.
2. Follow all warnings and instructions marked on the product.
3. Unplug the product from power outlets before cleaning. Do not use liquid or aerosol cleaners. Use a moist cloth for cleaning.
4. Do not use the product near water, for example near a bathtub, wash bowl, kitchen sink, etc.
5. Place the product securely on a stable surface. Serious damage and/or injury may result if the product falls.
6. Do not cover slots and openings on the product. They are provided for ventilation and protection against overheating. Never place the product near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the product. 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 product 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 the product. This may result in the

risk of fire or electric shock. Never spill any liquid on the product.

11. To reduce the risk of electric shock, do not disassemble the product. Take the product 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 product is subsequently used.
12. Unplug the product from power outlets and take 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 product.
 - C. If the product has been exposed to rain or water.
 - D. If the product 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 product has been dropped or physically damaged.
 - F. If the product 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 the product to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

Introduction

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.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.

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, or identified for use with the product only, in accordance with the instructions and limitations specified in this manual.

WARNING:

- To prevent the risk of fire or electrical shock, do not expose the product to rain or any type of moisture.
- Unplug the product from power outlets if it emits smoke, an abnormal smell, or makes an unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped emitting and contact the Panasonic Call Center at 1-800-211-PANA (1-800-211-7262).

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 product operates in the frequency range of 2.4 GHz to 2.48 GHz, and the power output is 1 mW (max.).) Do not use the product 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 energy.

Introduction

For best performance

Base unit location/avoiding noise

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

- Placing the product away from electrical appliances.
- Placing the base unit in a HIGH and CENTRAL location with no obstructions such as walls.
- Raising the antennas 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 product away from electrical noise generating devices, such as fluorescent lamps and motors.
- The product should be kept free from excessive smoke, dust, high temperature, and vibration.
- The product should not be exposed to direct sunlight.
- Do not place heavy objects on top of the product.
- When you leave the product unused for a long period of time, unplug the product from the power outlet.

- The product 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.
- The maximum calling distance may be shortened when the product is used in the following places: Near obstacles such as hills, tunnels, underground, near metal objects such as wire fences, etc.
- Operating the product near 2.4 GHz electrical appliances may cause interference. Move away from the electrical appliances.

Routine care

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

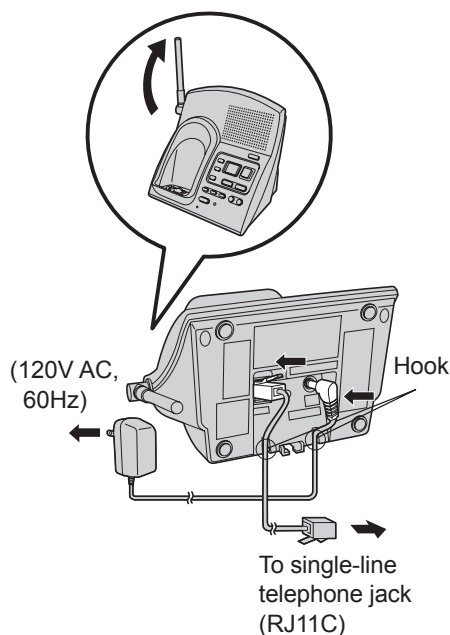
Preparation

Setting up the base unit

Connecting the AC adaptor and telephone line cord

Connect the telephone line cord until it clicks into the base unit and telephone line jack. Connect the AC adaptor cord by pressing the plug firmly.

- Use only the included Panasonic AC adaptor **xxxx** or **xxxx**.



Note:

- 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

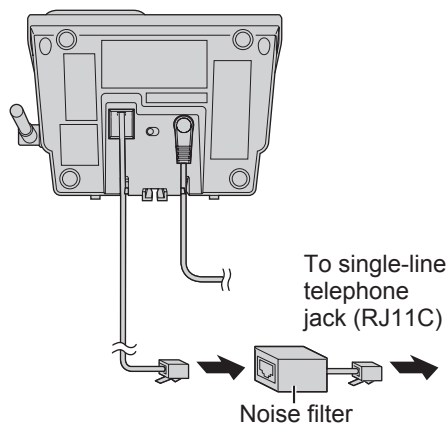
outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.

- The unit will not work during a power failure. We recommend connecting a corded telephone to the same telephone line or to the same telephone jack using a Panasonic T-adaptor (page 3).

If you subscribe to a DSL service

Please attach a noise filter (contact your DSL provider) to the telephone line between the base unit and the telephone line jack in the event of the following:

- Noise is heard during conversations.
- Caller ID features (page 18) do not function properly.

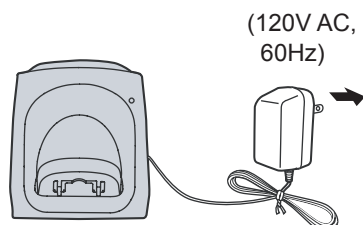


Preparation

Setting up the handset

Connecting the charger (KX-TG2132 only)

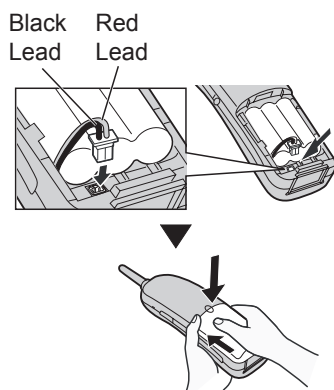
- Use only the included Panasonic AC adaptor **xxxx** or **xxxx**.



Battery installation/replacement

Insert the battery plug into the connector as shown in the picture. Then close the handset cover.

- If the battery replacement is necessary, press the notch of the handset cover firmly, and slide it. And then, remove the old battery.



Important:

- Use only the rechargeable Panasonic battery noted on page 3.

Attention:



A nickel metal hydride battery that is recyclable powers the product you have purchased.

Please call 1-800-8-BATTERY (1-800-822-8837) for information on how to recycle this battery.

Battery charge

Place the handset on the base unit or charger for **12** hours before initial use.

- The CHARGE indicator lights.
- Place each handset on the base unit once before initial use to activate all handsets.

Base unit:



Preparation

Charger (KX-TG2132 only):



Note:

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

Recharging the battery

Recharge the battery when:

- “RECHARGE” is displayed,  is displayed, or
- the handset beeps intermittently while it is in use.

Panasonic battery performance

Operation	Operating time
While in use (talking)	Up to 5 hours
While not in use (standby)	Up to 5 days

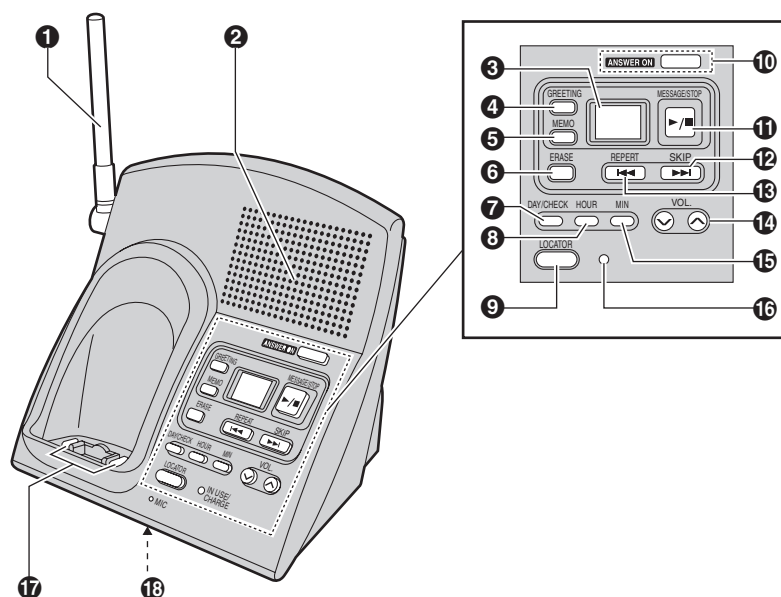
Note:

- Battery operating time may be shortened over time depending on usage conditions and surrounding temperature.
- Battery power is consumed whenever the handset is off the base unit or charger, even when the handset is not in use. Hence the longer you leave the handset off the base unit or charger, the less time you may actually talk using the handset.
- If the battery is fully charged, you do not have to place the handset on the base unit or charger until “RECHARGE” and/or  are displayed. This will maximize the battery life.

Preparation

Controls

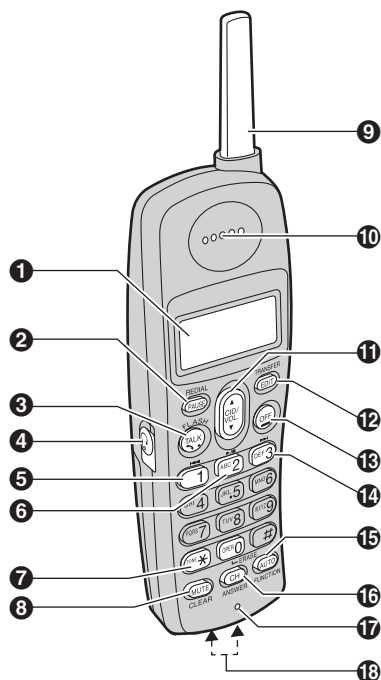
Base unit



- | | |
|-----------------------|---|
| 1 Antenna | 11 [▶/■] (MESSAGE / STOP) |
| 2 Speaker | 12 [▶▶] ([SKIP]) |
| 3 Display | 13 [◀◀] ([REPEAT]) |
| 4 [GREETING] | 14 VOL. (Volume) [V] [^] |
| 5 [MEMO] | 15 [MIN] (Minute) |
| 6 [ERASE] | 16 IN USE indicator / CHARGE indicator |
| 7 [DAY CHECK] | 17 Charge contacts |
| 8 [HOUR] | 18 MIC (Microphone) |
| 9 [LOCATOR] | |
| 10 [ANSWER ON] | |

Preparation

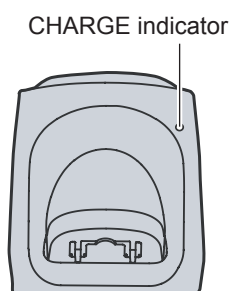
Handset



- 1** Display
- 2** [PAUSE] [REDIAL]
- 3** [↶] (TALK) [FLASH]
- 4** Headset jack
- 5** [◀◀]
- 6** [▶▶]
- 7** [*] (TONE)
- 8** [MUTE] [CLEAR]
- 9** Antenna
- 10** Receiver
- 11** [EDIT]
- 12** [CID] [VOL.] (Volume)
- 13** [OFF]
- 14** [▶▶]

- 15** [AUTO] [FUNCTION]
- 16** [CH] (Channel) [ANSWER]
- 17** Microphone
- 18** Charge contacts

Charger (KX-TG2132 only)



For assistance, please visit <http://www.panasonic.com/phonehelp>

Programming

Programmable settings

You can customize the unit by programming the following features using the handset.

Display language

You can select English, Spanish, or French as the display language. The default setting is "ENGLISH".

- 1 Press **[FUNCTION]** 2 times until "LANGUAGE" is displayed.
- 2 Select "ENG", "ESP", or "FRA" by using **[▼]** or **[▲]**.
- 3 Press **[EDIT]**, then press **[OFF]**.

Voice guidance language

You can select either "ENGLISH" or "Español" as the voice guidance language. The default setting is "ENGLISH".

To change the voice guidance language, press and hold **[SKIP]** for 2 seconds.

Dialing mode

If you cannot make calls, change this setting according to your telephone line service. The default setting is "Tone".

"TONE": For tone dial service.

"PULSE": For rotary pulse dial service.

- 1 Press **[FUNCTION]** 6 times until "DIAL MODE" is displayed.
- 2 Select "TONE" or "PULSE" by using **[▼]** or **[▲]**.
- 3 Press **[EDIT]**, then press **[OFF]**.

Date and time

Set the correct date and time. When you play back a message from the answering system (page 21), the unit announces the day and time it was recorded.

- 1 Press and hold **[DAY/CHECK]** until the current day is announced, then release **[DAY/CHECK]**.
- 2 Press and hold **[HOUR]** until the current hour is announced, then release **[HOUR]**.
- 3 Press and hold **[MIN]** until the current minute is announced, then release **[MIN]**.

Handset ringer on/off

You can turn the ringer on/off. The default setting is "ON".

- 1 Press **[FUNCTION]** 5 times until "RINGER" is displayed.
- 2 Select "ON" or "OFF" by using **[▼]** or **[▲]**.
- 3 Press **[EDIT]**, then press **[OFF]**.

Note:

- When the ringer is set to off, the handset does not ring for outside calls.

Handset ringer tone

You can change the ringer tone heard when an outside call is received. There are 3 ringer tones. The default setting is "RINGER TONE 1".

- 1 Press **[FUNCTION]** 4 times until "RINGER TONE" is displayed.

Programming

2 Select the desired ringer tone by using **[▼]** or **[▲]**.

3 Press **[EDIT]**, then press **[OFF]**.

Area code

We recommend storing your area code before using Caller ID. Calls from the same area will be recorded in the caller list without the area code. You do not have to remove it before calling back the caller or storing in the phonebook.

1 Press **[FUNCTION]** 3 times until "AREA CODE" is displayed.

2 Enter your area code (max. 3 digits).

3 Press **[EDIT]**, then press **[OFF]**.

Resetting the handset to its default setting

Feature	Default setting
Language	ENGLISH
Area code	---
Ringer tone	RINGER TONE 1
Ringer	ON
Dial mode	TONE
Default setting	NO
Receiver volume level	Vol. 2

1 Press **[FUNCTION]** 7 times until "DEFAULT" is displayed.

2 Select "YES" or "NO" by using **[▼]** or **[▲]**.

3 Press **[EDIT]**.

Note:

- The following items are retained:
 - Redial
 - Caller list
 - Phonebook items

Making/Answering Calls

Making calls

- 1 Lift the handset and dial the phone number.
 - To correct a digit, press **[CLEAR]**.
- 2 Press **[↶]**.
- 3 When you finish talking, press **[OFF]** or place the handset on the base unit or charger.

Note:

- If an alarm tone sounds in step 2, move closer to the base unit or place the handset on the base unit, and try again.
- If additional dialing is necessary after using speed dialing functions such as phonebook dialing or REDIAL, wait until speed dialing is finished to continue further dialing. Otherwise, the unit may not dial properly.

If noise interferes with the conversation

Press **[CH]** to select a clearer channel while talking or move closer to the base unit.

To redial after confirming the last number dialed

Press **[REDIAL]**, then press **[↶]**.

To select the receiver volume

Press **[▼]** or **[▲]** repeatedly while talking.

PAUSE button (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service.

For example, if you need to dial the line access number "9" when making outside calls with a PBX:

- 1 **[9] → [PAUSE] →** Dial the phone number.
- 2 **[↶]**

Note:

- A 3.5 second pause is inserted each time **[PAUSE]** is pressed. Press repeatedly to insert longer pauses.

Answering calls

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

- 1 Lift the handset and press **[↶]**.
 - You can also answer the call by pressing any button except **[OFF]** and **[⇓]**. (**Any key talk feature**)
- 2 When you finish talking, press **[OFF]** or place the handset on the base unit or charger.

Note:

- You can change the ringer tone (page 12).

Making/Answering Calls

Call transfer (KX-TG2132 only)

During an outside call, you may transfer the outside call to another handset.

1 Ex. Handset 1:

Press **[TRANSFER]** on the originating handset.

- "TRANSFERRING" shows in the display. Both handsets are paged.

2 Ex. Handset 2:

Press **[TRANSFER]** or **[↶]** on the receiving handset to answer the call.

- To cancel the call transfer, you may press **[OFF]**, **[TRANSFER]**, or **[↶]** on the originating handset.

Useful features during a call

Automatic security code setting

Each time you place the handset on the base unit, the unit automatically selects one of more than 65,000 security codes. These codes help prevent the unauthorized use of your telephone line by another cordless telephone user.

Mute

Press **[MUTE]**, while talking.

- The other party cannot hear you but you can hear them.
- To return to the conversation, press **[MUTE]**.

For Call Waiting service users

To use Call Waiting, you must subscribe to your telephone company's Call Waiting service.

This feature allows you to receive calls while you are already talking on the phone. If you receive a call while on the phone, you will hear a Call Waiting tone. Please contact your telephone company for details and availability of this service in your area.

Press **[Flash]** to answer the 2nd call.

- To switch between calls, press **[Flash]**.

Temporary tone dialing (for rotary/pulse service users)

You can temporarily switch the dialing mode to tone when you need to access touch tone services (for example, answering services, telephone banking services, etc.).

Press **[*]** (TONE) before entering access numbers which require tone dialing.

Handset locator

You can locate the handset or page the handset user with beep tones from the base unit.

1 Base unit:

Press **[LOCATOR]**.

- The IN USE indicator flashes. The handset beeps for 1 minute and "PAGING" is displayed on the handset.

2 Base unit:

To stop paging, press **[LOCATOR]** again.

Handset:

To stop paging, press **[OFF]**.

Phonebook

Handset phonebook

You can add up to 10 items to the handset phonebook and search for phonebook items by name.

Storing names and numbers

- 1** Press **[FUNCTION]**.
- 2** Press a memory station number **[0]** to **[9]**.
 - If an item is already stored, that information is displayed.
- 3** Press **[EDIT]**.
- 4** Enter the name (max. 15 characters), using the dialing buttons **[1]** to **[9]**, **[▼]** or **[▲]**.
 - If a name is not required, press **[EDIT]** and go to step 6.
- 5** Press **[EDIT]**.
- 6** Enter the phone number (max. 24 digits) using the dialing buttons **[0]** to **[9]**, **[▲]** or **[▼]**.
 - If a pause is required for dialing, **[PAUSE]** can be stored in a phone number counting as one digit.
 - When you store the last number dialed, press **[REDIAL]** instead of entering a phone number.
- 7** Press **[EDIT]**.

Character table

Key	Character			
[1]	Space	–	*	!
[2]	A	B	C	(
[3]	D	E	F	)
[4]	G	H	I	“
[5]	J	K	L	'
[6]	M	N	O	;
[7]	P	Q	R	S
[8]	T	U	V	?
[9]	W	X	Y	Z
[▼]	To move the cursor to the left			
[▲]	To move the cursor to the right			

- To enter another character that is located on the same dial key, first press **[▼]** to move the cursor to the next space.

Editing/correcting a mistake

Press **[▼]** or **[▲]** to move the cursor to the character or number you want to erase, then press **[CLEAR]**. Enter the appropriate character or number. Each time you press **[CLEAR]**, a character under the cursor is erased.

- Press and hold **[CLEAR]** to erase all characters or numbers.

Finding and calling a handset phonebook item

- 1** Press **[FUNCTION]**.
- 2** Press **[▼]** or **[▲]**.
 - The first item or last item is displayed.

Phonebook

3 Press **[▲]** to scroll from the memory station "01", or **[▼]** to scroll from memory station "10".

- You can also find the items using the memory station numbers **[0]** to **[9]** directly.
- The memory station number **[1]** shows "01", **[0]** shows "10" on the display.

4 Press **[↶]**.

Note:

- If **"EMPTY"** is displayed in step 2, the phonebook is empty.
- If the phone number is more than 12 digits, the whole number has not been shown. The remaining numbers are displayed alternately.

Editing items in the handset phonebook

1 Press **[FUNCTION]**.

2 Select the desired item by using **[▼]** or **[▲]**.

- You can also find the items using the memory station numbers **[0]** to **[9]** directly.

3 Press **[EDIT]**.

4 Edit the name using the dial key, **[▼]** or **[▲]** (max. 15 characters).

5 Press **[EDIT]**.

6 Edit the phone number using the dial key, **[▼]** or **[▲]** (max. 32 digits).

7 Press **[EDIT]**.

Erasing an item in the handset phonebook

1 Press **[FUNCTION]**.

2 Select the desired item by using **[▼]** or **[▲]**.

- You can also find the items using the memory station numbers **[0]** to **[9]** directly.

3 Press **[CLEAR]**.

Erasing all items in the handset phonebook

1 Press **[FUNCTION]**.

2 Review phonebook items by using **[▼]** or **[▲]**.

3 Press and hold **[CLEAR]** until **"CLEAR ALL ?"** is displayed.

4 Press **[CLEAR]**.

Caller ID Service

Using Caller ID service

This unit is Caller ID compatible. To use Caller ID features, you must subscribe to Caller ID service of your telephone service provider.

Caller ID features

When an outside call is being received, the calling party's name and telephone number are displayed.

Caller information for the last 40 different callers is logged in the caller list by the most recent call to the oldest.

- Generally caller information is displayed from the 2nd ring.
- If the unit cannot receive caller information, the following is displayed:
 - “OUT OF AREA”: The caller dialed from an area which does not provide Caller ID service.
 - “PRIVATE CALLER”: The caller requested not to send caller information.
 - “LONG DISTANCE”: The caller called you long distance.
 - “ERROR”: The caller ID information is interfered with during reception.
- If the unit is connected to a PBX system, caller information may not be received properly. Consult your PBX supplier.
- The name display service may not be available in some areas. For further information, please contact your telephone service provider.

Missed calls

If a call is not answered, the unit treats the call as a missed call. For example, if 10 calls from different parties are missed,

“NEW CALL 10” is displayed on the handset display. This lets you know if you should view the caller list to see who called while you were out.

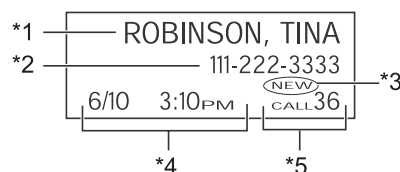
Call Waiting Caller ID display

If you subscribe to both Caller ID and Call Waiting with Caller ID services, the 2nd caller's information is displayed after you hear a Call Waiting tone (page 15).

Please contact your telephone service provider for details and availability of this service in your area.

Caller list

What the display means



- *1 Name
- *2 Phone Number
- *3 Shows which calls you have not checked.
- *4 The date and time the latest call has been received. (ex. June 10, 3:10PM)
- *5 The number of call which you have received.

Viewing the caller list and calling back

- 1** Press [▼] or [▲] to enter the caller list.
- 2** Press [▼] to search from the most recent call, or [▲] to search from the oldest call.

Caller ID Service

3 Press [**↶**].

Note:

- If the caller list is empty, you cannot enter the caller list by pressing [**↶**] or [**↷**].
- Once new calls have been checked, "NEW" is not displayed.

Editing a caller's phone number before calling back

You can edit a phone number in the caller list by removing its area code and/or the long distance code "1".

1 Press [**↶**] or [**↷**] to enter the caller list.

2 Select the desired item by using [**↶**] or [**↷**].

3 Press [**EDIT**] repeatedly until the phone number is shown in the desired format.

- ① Local phone number

Example: 321-5555

- ② Area code – Local phone number

Example: 555-321-5555

- ③ 1 – Area code – Local phone number

Example: 1-555-321-5555

4 Press [**↶**].

Note:

- The number edited in the step 3 is not maintained in the caller list.

Storing caller information into the handset phonebook

1 Press [**↶**] or [**↷**] to enter the caller list.

2 Select the desired item by using [**↶**] or [**↷**].

- To edit the number, press [**Edit**] repeatedly until the phone number is shown in the desired format.

3 Press [**FUNCTION**].

4 Press a memory station number [**0**] to [**9**].

- The memory station number [**1**] shows "01", [**0**] shows "10" on the display.

Erasing selected caller information

1 Press [**↶**] or [**↷**] to enter the caller list.

2 Select the desired item by using [**↶**] or [**↷**].

3 Press [**CLEAR**], then press [**OFF**].

Erasing all caller information

1 Press [**↶**] or [**↷**] to enter the caller list.

2 Press and hold [**CLEAR**] until "CLEAR ALL CID ?" is displayed.

3 Press [**CLEAR**].

Answering System

Answering system

Important:

- Only 1 person can access the answering system at a time.
- When callers leave messages, the unit records the day and time of each message. Make sure the date and time have been set (page 12).

Memory capacity

The total recording capacity (including your greeting message and caller messages) is about 15 minutes. A maximum of 59 messages (including a greeting message) can be recorded.

- If the message memory becomes full, the unit announces “*Memory is full*”. Erase unnecessary messages (page 21).

Turning the answering system on/off

Press **[ANSWER ON/OFF]** to turn on/off the answering system.

- When the answering system is turned on, the display shows the number of recorded messages.
- When the answering system is turned off, the display shows “- -”.

Screening calls

While a caller is leaving a message, you can listen to the call through the base unit’s speaker. **You can also listen to the call through the handset by pressing [ANSWER/CH].** To adjust the speaker volume, press **[▼]** or **[▲]** repeatedly.

You can answer the call by pressing **[↶]** on the handset.

Turning off the call screening feature

While screening, press **[ANSWER/CH]**.

Recording your greeting message

You can record your own greeting message (max. 3 minutes) that is played when the answering system answers a call. If you do not record a greeting message, a prerecorded greeting message is used.

- 1 Press and hold **[GREETING]**.
- 2 After the base unit beeps, speak clearly about 20 cm (8 inches) away from the MIC.
- 3 To stop recording, release **[STOP]**.

Playing back the greeting message

Press **[GREETING]**.

Erasing your greeting message

Press and hold **[GREETING]** for 1 second, then release **[GREETING]**.
OR

Press **[GREETING]**, and then press **[ERASE]** while your greeting message is playing.

Prerecorded greeting message

If you erase or do not record your own greeting message, the unit plays a prerecorded greeting message for callers and ask them to leave messages.

Answering System

Listening to messages using the base unit

When new messages have been recorded, the MESSAGE indicator on the base unit flashes.

Press **[MESSAGE/STOP]**.

- The unit plays new messages.
- When you have no new messages, the unit plays back all messages.

Adjusting the speaker volume

Press **[^]** or **[v]** repeatedly while listening to a message.

Repeating a message

Press **[|<<]** during playback.

- If you press **[|<<]** twice, the previous message is played.

Skipping a message

Press **[>>|]** during playback.

Erasing a message

Press **[ERASE]** during playback.

Erasing all messages

Press and hold **[ERASE]** for 1 second while the unit is not being used.

Listening to messages using the handset

Voice guidance

Operations are presented by voice guidance in the following order:

Note:

- If you do not press any dial keys within 30 seconds after a voice guidance prompt, the unit disconnects your call.

Answering system commands

You can operate the answering system by pressing **[ANSWER/CH]**, then pressing dial keys on the handset.

Key	Command
[1]	Repeat message (during playback)
[1], [1]	Play the previous message
[2]	Play new messages ^{*1}
[3]	Skip message (during playback)
[4]	Turn answering system on/off
[7]	Play the remote voice menu
[0]	Erase currently playing message
[*]	Edit the remote code
[*], [*]	Finish editing the remote code
[↶]	Stop playing
[OFF]	Exit

Answering System

***1 When you have no new messages, the unit plays back all messages. To stop playing, press [2] again.**

Adjusting the receiver volume

Press [▼] or [▲] repeatedly while listening to a message.

Voice memo

Recording a voice memo

You can use the base unit to leave a voice memo (voice message) for yourself or someone else (max. 3 minutes). Voice memos can be played back later with the same operation used to play back answering system messages.

- 1** Press and hold [MEMO].
- 2** After the unit beeps, speak clearly about 20 cm (8 inches) away from the MIC.
- 3** To stop recording, release [MEMO].

Remote operation

Using a touch tone phone, you can call your phone number from outside and access the unit to listen to messages. The unit's voice guidance prompts you to press certain dial keys to perform different operations.

Important:

- In order to operate the answering system remotely, you must first set a remote code (page 23). This code must

be entered each time you operate the answering system remotely.

Using the answering system remotely

- 1** Dial your phone number.
- 2** After the greeting message starts, press any key.
- 3** Enter your remote code (page 23).
 - The voice guidance starts.
- 4** Follow the voice guidance as necessary.
- 5** When finished, hang up.

Note:

- You can ignore the voice guidance and control the unit using remote commands (page 23).

Voice guidance

Operations are presented by voice guidance in the following order:

- Press seven, to review menu again
- Press tow, to play messages, press two again, to stop
- Press zero, while playing a message to erase
- Press one, to review
- Press three, to skip
- Press four, to turn off/on

Note:

- If you do not press any dial keys within 30 seconds after a voice guidance prompt, the unit disconnects your call.

Answering System

Remote commands

You can press dial keys to access certain answering system functions without waiting for the voice guidance to prompt you.

Key	Remote command
[1]	Repeat message (during playback)
[1], [1]	Play the previous message
[2]	Play new messages ^{*1}
[3]	Skip message (during playback)
[4]	Turn answering system on/off
[7]	Review the remote voice menu again
[0]	Erase currently playing message

^{*1} When you have no new messages, the unit plays back all messages. To stop playing, press **[2]** again.

Turning on the answering system remotely

If the answering system is off, you can turn it on remotely.

- 1 Dial your phone number.
- 2 Let the phone ring 10 times.
 - The unit announces "Answer off".
 - You can hang up, or if you call from a touch tone phone, you can enter your remote code and begin remote operation (page 22).
- 3 Enter the remote code, then press **[4]**.

Answering system settings

Remote code

A remote code must be entered when operating the answering system remotely. This code prevents unauthorized parties from listening to your messages remotely. The default setting is "123".

- 1 Press **[ANSWER/CH]**, then press **[*]**.
- 2 Enter the desired 3-digit remote code.
- 3 Press **[*]**.

Ring count

You can change the number of times (3 or 5 rings) the phone rings before the unit answers calls.

This is a slide switch located at the back of the unit.

To change the ring count, slide the switch.

For Voice Mail service subscribers

If you subscribe to a flat-rate service package that includes Caller ID, Call Waiting, Voice Mail, and unlimited local/regional/long distance calls, please note the following:

- To use the Voice Mail service provided by your telephone service provider rather than the unit's answering system, turn off the answering system (page 20). This unit does not have an indicator to indicate if there are new messages in your mailbox service.
- To use this unit's answering system rather than the Voice Mail service

Answering System

provided by your telephone service provider to deactivate your Voice Mail service, please contact your telephone service provider.

If your telephone service provider cannot do this:

- Set this unit's "Ring count" setting so that this unit's answering system answers calls before the Voice Mail service of your telephone service provider does. It is necessary to check the ring count required to activate the Voice Mail service provided by your telephone service provider before changing this setting.
- Change the ring count of the Voice Mail service so that the answering system can answer the call first. To do so, consult your telephone service provider.

Useful Information

Headset (optional)

Plugging an optional headset into the handset allows a hands-free phone conversation.

Connecting an optional headset to the handset

Open the headset jack cover, and connect an optional headset to the headset jack. We recommend using the Panasonic headset.



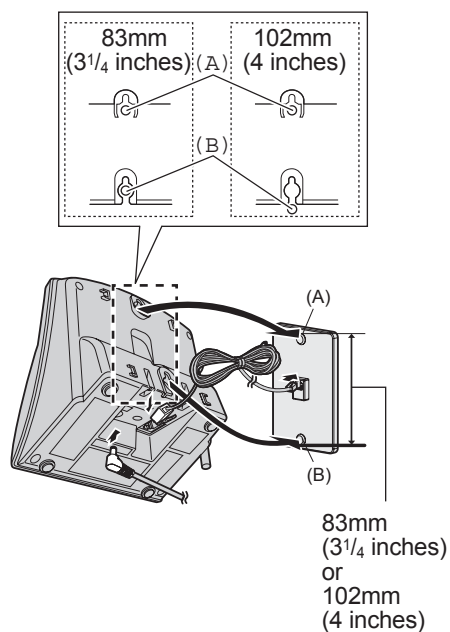
Note:

- When an optional headset is connected to the handset, make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

Wall mounting (Base unit only)

Connect the telephone line cord. Mount the unit by inserting the mounting pins into the round openings on the base unit (for pin (B), use round cut out at the bottom of the base unit if you are using the 4 inches phone plate), then sliding the unit down to secure it. Connect the AC adaptor to power outlet.

- There are two common types of wall phone plates. The distance between (A) and (B) may vary depending on the size of the wall phone plate installed.



Useful Information

Troubleshooting

General use

Problem	Cause/solution
The unit does not work.	• Make sure the battery is installed correctly and fully charged (page 8). • Check the connections (page 7). • Unplug the base unit's AC adaptor to reset the unit. Reconnect the adaptor and try again. • Place the handset on the base unit and try again.
I cannot hear a dial tone.	• Confirm the telephone line cord is properly connected (page 7). • Disconnect the unit from the telephone line and connect a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your telephone service provider.

Programmable settings

Problem	Cause/solution
While programming, the handset starts to ring.	• A call is being received. Answer the call and start again after hanging up.

Battery recharge

Problem	Cause/solution
I fully charged the battery, but it  continues to display.	• Clean the charge contacts and charge again (page 9). • The battery may need to be replaced with a new one (page 8).
The handset display is blank.	• Confirm that the battery is properly installed. • Fully charge the battery (page 8).

Making/answering calls, intercom

Problem	Cause/solution
The handset does not ring.	• The ringer is turned off. Turn it on (page 12).

Useful Information

Problem	Cause/solution
Static is heard, sound cuts in and out. Interference from other electrical units.	• Move the handset and the base unit away from other electrical appliances. • Move closer to the base unit. • Raise the base unit antenna. • Press [CH] to select a clearer channel in the talk mode. • If your unit is connected to a telephone line with DSL service, we recommend connecting a noise filter between the base unit and the telephone line jack. Contact your DSL provider for details.
I cannot make a call.	• The dialing mode may be set incorrectly. Change the setting (page 12). • The base unit or another handset is in use. Try again later.
I cannot redial by pressing [REDIAL] .	• If the last number dialed was more than 32 digits long, the number will not be redialed correctly. Dial the number manually.
I cannot have a conversation using the headset.	• Make sure that an optional headset is connected properly (page 25).
I cannot make long distance calls.	• Make sure that you have long distance service.
I cannot page the handset.	• The called handset is too far from the base unit. • The called handset is in use. Try again later.

Caller ID

Problem	Cause/solution
The 2nd caller's information is not displayed during an outside call.	• In order to use Caller ID, Call Waiting, or Call Waiting Caller ID (CWID), you must first contact your telephone service provider and subscribe to the desired service. After subscribing, you may need to contact your telephone service provider again to activate this specific service, even if you already subscribed to both Caller ID and Call Waiting with Caller ID services (CWID).

Useful Information

Problem	Cause/solution
The handset does not display the caller's name and/or phone number.	• You have not subscribed to Caller ID service. Contact your telephone service provider to subscribe. • If your unit is connected to any additional telephone equipment such as a Caller ID box or cordless telephone jack, disconnect the unit from the equipment and plug the unit directly into the wall jack. • If your unit is connected to a telephone line with DSL service, we recommend connecting a noise filter between the base unit and the telephone line jack. Contact your DSL provider for details. • The name display service may not be available in some areas. Contact your telephone service provider for details. • Other telephone equipment may be interfering with this unit. Disconnect the other equipment and try again. • The caller requested not to send caller information (page 18). • If a call is being transferred to you, the caller information is not displayed. • Generally, caller information is displayed from the 2nd ring.
I cannot dial the phone number edited in the caller list.	• The phone number you dialed might have an incorrectly edited pattern (for example, the long distance "1" or the area code is missing). Edit the phone number with another pattern (page 19).

Answering system

Problem	Cause/solution
I cannot listen to messages from a remote location.	• A touch tone phone is required for remote operation. • Enter the remote code correctly (page 23). • The answering system is off. Turn it on (page 23).
The unit does not record new messages.	• The message memory is full. Erase unnecessary messages (page 21). • If you subscribe to the Voice Mail service, messages are recorded by the telephone service provider not your telephone (page 23).
I cannot operate the answering system.	• Someone is operating the answering system.

Useful Information

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 the 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 the 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

Useful Information

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.

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

Useful Information

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:

The 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 (8 inches) or more between antenna and all person's body (excluding extremities of hands, wrist and feet). The handset may be carried and operated with only the optional specific belt-clip. Other non-tested belt-clips or similar body-worn accessories may not comply and must be avoided. The product must not be colocated or operated in conjunction with any other antenna or transmitter.

Notice

- This product is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Cet appareil 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 producto está diseñado para usarse en los Estados Unidos de América.
La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- この製品は、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。

Useful Information

Specifications

General

Operating environment	5 °C – 40 °C (41 °F – 104 °F)
Frequency	2.4 GHz – 2.4828 GHz

Base unit

Dimensions	Approx. height 121.8 mm x width 109 mm x depth 106 mm (4 ¹³ / ₁₆ inches x 4 ⁹ / ₃₂ inches x 4 ⁵ / ₃₂ inches)
Mass (Weight)	Approx. 203 g (0.45 lb.)
Power consumption	Standby: Approx. 4.0 W Maximum: Approx. 5.0 W
Base RF Power output	94 dBuV/m (max.)
Power supply	AC adaptor (120 V AC, 60 Hz)

Handset

Dimensions	Approx. height 220 mm x width 50.6 mm x depth 40.2 mm (8 ²¹ / ₃₂ inches x 2 inches x 1 ⁹ / ₁₆ inches)
Mass (Weight)	Approx. 214 g (0.47 lb.) with battery
Handset RF Power output	94 dBuV/m (max.)
Power supply	Ni-Cd battery (3.6 V, 600 mAh)

Charger (KX-TG2132 only)

Dimensions	Approx. height 70.4 mm x width 83.3 mm x depth 91.4 mm (2 ³ / ₄ inches x 3 ⁹ / ₃₂ inches x 3 ¹⁹ / ₃₂ inches)
Mass (Weight)	Approx. 203 g (0.45 lb.) with AC adaptor
Power consumption	Standby: Approx. 2.2 W Maximum: Approx. 3.3 W
Power supply	AC adaptor (120 V AC, 60 Hz)

Note:

- Design and specifications are subject to change without notice.
- The illustrations in these instructions may vary slightly from the actual product.

Useful Information

Warranty

**PANASONIC CONSUMER
ELECTRONICS COMPANY, DIVISION
OF PANASONIC CORPORATION OF
NORTH AMERICA**
One Panasonic Way,
Secaucus, New Jersey 07094

PANASONIC PUERTO RICO, INC.
San Gabriel Industrial Park,
Ave. 65 de Infantería, Km. 9.5,
Carolina, Puerto Rico 00985

Panasonic Telephone Limited Warranty

Limited Warranty Coverage

If your telephone (identified in your Operating Instructions) does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (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.

Parts	Labor
One (1) Year	One (1) Year

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 mail-in your product during the Limited Warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). 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 warranty service.

To obtain service in the USA please contact:

Panasonic Services Company, Panasonic Plus Department
20421 84th Avenue South
Kent, WA 98032
Tel: 1-800-833-9626 Fax: 1-800-237-9080

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

For Limited Warranty service for headsets if a headset is included with this product please call Panasonic Plus Department at 1-800-833-9626.

For assistance, please visit <http://www.panasonic.com/phonehelp>

Useful Information

When shipping the unit carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint, a return address and a day time phone number where you can be reached.

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, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or 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, lost calls or messages, cost of having someone remove or re-install an installed unit if applicable, 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.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied 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.

Useful Information

Customer services

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

<http://www.panasonic.com/consumersupport>

or, contact us via the web at:

<http://www.panasonic.com/contactinfo>

You may also contact us directly at: 1-800-211-PANA (1-800-211-7262),
Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

TTY users (hearing or speech impaired users) can call 1-877-833-8855.

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

<http://www.pasc.panasonic.com>

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)
(Monday - Friday 9 am to 9 pm, EST.)

Panasonic Services Company

20421 84th Avenue South, Kent, WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

TTY users (hearing or speech impaired users) can call 1-866-605-1277.

Service in Puerto Rico

Panasonic Puerto Rico, Inc.

San Gabriel Industrial Park, Ave. 65 de Infantería, Km. 9.5,

Carolina, Puerto Rico 00985

Phone (787)750-4300, Fax (787)768-2910

For assistance, please visit <http://www.panasonic.com/phonehelp>

If you need assistance with setup or operation

- 1** Visit our website: <http://www.panasonic.com/phonehelp>
- 2** Contact us via the web at: <http://www.panasonic.com/contactinfo>
- 3** Call us at: 1-800-211-PANA (1-800-211-7262)
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 Servicer, 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.

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

Panasonic Puerto Rico, Inc.
San Gabriel Industrial Park, Ave. 65 de Infantería, Km. 9.5,
Carolina, Puerto Rico 00985

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