

Panasonic[®]

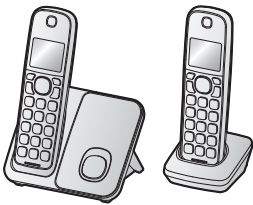
Operating Instructions

Digital Cordless Phone

Model No. **KX-TGD510UE**
KX-TGD512UE

Digital Cordless Answering System

Model No. **KX-TGD520UE**
KX-TGD522UE



Model shown is KX-TGD512.

***Before initial use, see “Getting Started”
on page 8.***

Thank you for purchasing a Panasonic product.

Please read these operating instructions before using the unit and save them for future reference.

Table of Contents

Introduction	
Model composition	3
Accessory information	3
Graphical symbols for use on equipment and their descriptions	4
Important Information	
For your safety	5
Important safety instructions	6
For best performance	6
Other information	6
Specifications	7
Getting Started	
Setting up	8
Controls	10
Display icons	11
Turning the power on/off	12
Language setting	12
Date and time	12
Recording your greeting message (KX-TGD520 series)	12
Other settings	13
Making/Answering Calls	
Making calls	14
Answering calls	14
Useful features during a call	14
Intercom	16
Key lock	16
Power backup operation	17
Nuisance Call Block	
Using the call block button	18
Storing unwanted callers	18
Phonebook	
Phonebook	20
Speed dial	21
Programming	
Menu list	22
Alarm	26
Do not disturb mode	27
Baby monitor	27
Other programming	29
Registering a unit	30
Caller ID Service	
Using Caller ID service	32
Caller list	32
Answering System	
Answering system (KX-TGD520 series)	34
Turning the answering system on/off	34
Greeting message	34
Listening to messages	34
Advanced new message alerting features	36
Remote operation	37
Answering system settings	38
Useful Information	
Voicemail service	39
Character entry	39
Error messages	41
Troubleshooting	41
Index	
Index.....	45

Model composition

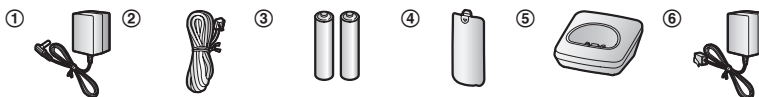
Series	Model No.	Base unit	Handset	
		Part No.	Part No.	Quantity
KX-TGD510 series	KX-TGD510	KX-TGD510	KX-TGDA50	1
	KX-TGD512	KX-TGD510	KX-TGDA50	2
KX-TGD520 series	KX-TGD520	KX-TGD520	KX-TGDA50	1
	KX-TGD522	KX-TGD520	KX-TGDA50	2

Accessory information

Supplied accessories

No.	Accessory item/Part number	Quantity	
		KX-TGD510 KX-TGD520	KX-TGD512 KX-TGD522
①	AC adaptor for base unit/PNLV226E	1	1
②	Telephone line cord	1	1
③	Rechargeable batteries	2	4
④	Handset cover*1	1	2
⑤	Charger	–	1
⑥	AC adaptor for charger/PNLV233E	–	1

*1 The handset cover comes attached to the handset.















Additional/replacement accessories

Please contact your nearest Panasonic dealer for sales information.

Accessory item	Model number/Specifications
Rechargeable batteries	Battery type: – Nickel metal hydride (Ni-MH) – 2 x AAA (R03) size for each handset – 1.2 V
DECT repeater	KX-A405, KX-A406

Introduction

Graphical symbols for use on equipment and their descriptions

Symbol	Explanation	Symbol	Explanation
	Alternating current (A.C.)		Class II equipment (equipment in which protection against electric shock relies on Double Insulation or Reinforced Insulation)
	Direct current (D.C.)		"ON" (power)
	Protective earth		"OFF" (power)
	Protective bonding earth		Stand-by (power)
	Functional earth		"ON"/"OFF" (power; push-push)
	For indoor use only		Caution, risk of electric shock

Important Information

For your safety

To prevent severe injury and loss of life/property, read this section carefully before using the product to ensure proper and safe operation of your product.

WARNING

Power connection

- Use only the power source marked on the product.
- Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
- Completely insert the AC adaptor/power plug into the power outlet. Failure to do so may cause electric shock and/or excessive heat resulting in a fire.
- Regularly remove any dust, etc. from the AC adaptor/power plug by pulling it from the power outlet, then wiping with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc. resulting in a fire.
- 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 an authorised service centre.
- Unplug from power outlets and never touch the inside of the product if its casing has been broken open.
- Never touch the plug with wet hands. Danger of electric shock exists.

Installation

- To prevent the risk of fire or electrical shock, do not expose the product to rain or any type of moisture.
- Do not place or use this product near automatically controlled devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction resulting in an accident.

- Do not allow the AC adaptor or telephone line cord to be excessively pulled, bent or placed under heavy objects.

Operating safeguards

- Unplug the product from power outlets before cleaning. Do not use liquid or aerosol cleaners.
- Do not disassemble the product.
- Do not spill liquids (detergents, cleansers, etc.) onto the telephone line cord plug, or allow it to become wet at all. This may cause a fire. If the telephone line cord plug becomes wet, immediately pull it from the telephone wall jack, and do not use.

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 1.88 GHz to 1.90 GHz, and the RF transmission power is 250 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.

CAUTION

Installation and location

- Never install telephone wiring during an electrical storm.
- Never install telephone line 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.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.

Important Information

- This product is unable to make calls when:
 - the handset batteries need recharging or have failed.
 - there is a power failure.
 - the key lock feature is turned on.

Battery

- We recommend using the batteries noted on page 3. **USE ONLY rechargeable Ni-MH batteries AAA (R03) size.**
- Do not mix old and new batteries.
- Do not open or mutilate the batteries. Released electrolyte from the batteries is corrosive and may cause burns or injury to the eyes or skin. The electrolyte is toxic and may be harmful if swallowed.
- Exercise care when handling the batteries. Do not allow conductive materials such as rings, bracelets, or keys to touch the batteries, otherwise a short circuit may cause the batteries and/or the conductive material to overheat and cause burns.
- Charge the batteries provided with or identified for use with this product only, in accordance with the instructions and limitations specified in this manual.
- Only use a compatible base unit (or charger) to charge the batteries. Do not tamper with the base unit (or charger). Failure to follow these instructions may cause the batteries to swell or explode.

Important safety instructions

When using your product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Do not use this product near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.

4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

For best performance

Environment

- The product should be kept free from excessive smoke, dust, high temperature, and vibration.
- 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 heating devices, cooking appliances, etc. It should not be placed in rooms where the temperature is less than 0 °C or greater than 40 °C. Damp basements should also be avoided.
- Operating the product near electrical appliances may cause interference. Move away from the electrical appliances.

Other information

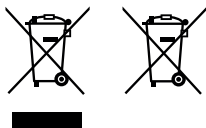
CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Notice for product disposal, transfer, or return

- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase information such as phonebook or caller list entries from the memory before you dispose of, transfer, or return the product.

Important Information

Information on Disposal in other Countries outside the European Union



These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery removal procedure

Refer to "Removing the battery" on page 9.

Specifications

- **Standard:**
DECT (Digital Enhanced Cordless Telecommunications),
GAP (Generic Access Profile)
- **Frequency range:**
1.88 GHz to 1.90 GHz
- **RF transmission power:**
Approx. 10 mW (average power per channel)
250 mW (max.)
- **Power source:**
100–240 V AC, 50/60 Hz
- **Rechargeable battery:**
AAA (R03) Ni-MH battery (1.2 V, 550 mAh)
- **Power consumption:**
 - Base unit*1:**
Standby: 1.0 W
Maximum: 3.5 W
 - Base unit*2:**
Standby: 1.0 W
Maximum: 4.3 W
 - Charger:**
Standby: 0.1 W
Maximum: 1.8 W
- **Operating conditions:**
0 °C–40 °C, 20 %–80 % relative air humidity (dry)

*1 KX-TGD510 series

*2 KX-TGD520 series

Note:

- The range of the handset under maximum conditions is 60 metres indoors and 300 metres outdoors. Please note it will probably be shortened when near concrete barriers, etc.

Getting Started

Setting up

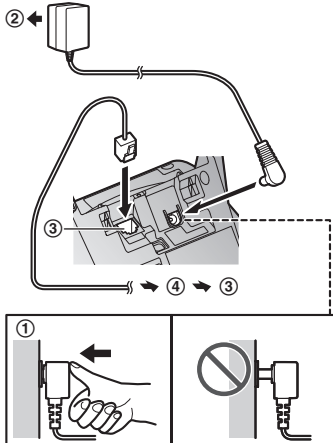
Connections

■ Base unit

- ① Connect the AC adaptor to the unit by pressing the plug firmly.
- ② Connect the AC adaptor to the power outlet.
- ③ Connect the telephone line cord to the unit, then to the telephone line jack until you hear a click.
- ④ A DSL/ADSL filter (not supplied) is required if you have a DSL/ADSL service.

Note:

- Use only the supplied Panasonic AC adaptor PNLV226E.
- Use only the supplied telephone line cord.

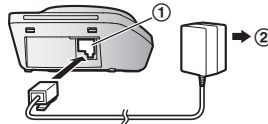


■ Charger

- ① Connect the AC adaptor plug to the unit until you hear a click.
- ② Connect the AC adaptor to the power outlet.

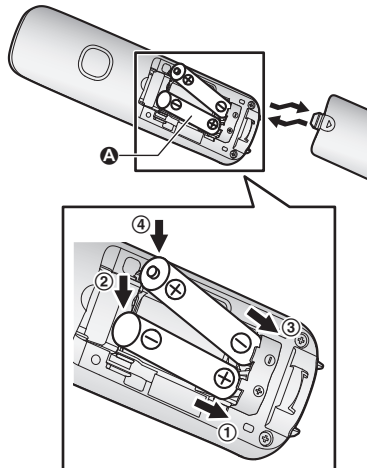
Note:

- Use only the supplied Panasonic AC adaptor PNLV233E.

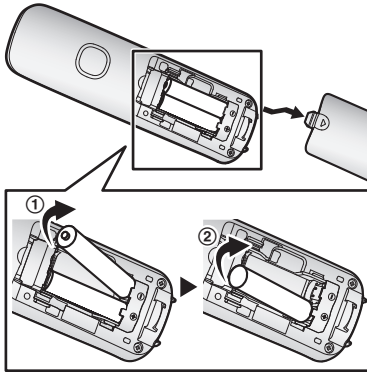


Battery installation

- USE ONLY rechargeable Ni-MH batteries AAA (R03) size (A).
- Do NOT use alkaline/manganese/Ni-Cd batteries.
- Confirm correct polarities (+, -).



Removing the battery



Battery charging

Charge for about 7 hours.

Note for battery charging

- Clean the charge contacts with a soft and dry cloth once a month. Before cleaning the unit, disconnect from power outlets and any telephone line cords.

Battery level

Icon	Battery level
	High
	Medium
	Low
	Needs charging.

Note:

- At the end of each call, the unit displays a large icon for a few moments to indicate the battery level.
- You can set the unit to beep when the battery needs charging (page 13).

Ni-MH battery performance (supplied batteries)

Operation	Operating time
In continuous use	18 hours max.
Not in use (standby)	200 hours max.

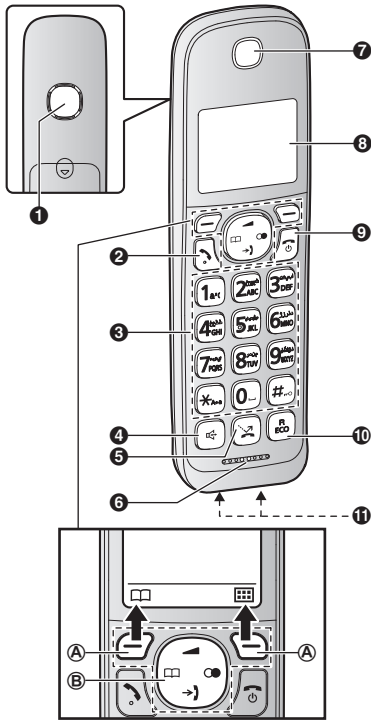
Note:

- To maximise battery life, it is recommended that the handset batteries be fully discharged (used) until flashes once every few months.
- Actual battery performance depends on usage and ambient environment.

Getting Started

Controls

Handset



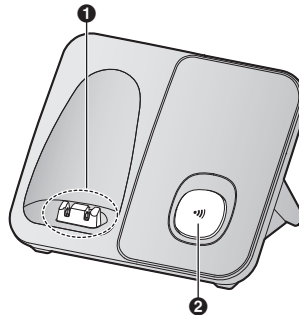
- 1 Speaker
 - 2 **[Talk]** (Talk)
 - 3 Dial keypad
 - 4 **[Speakerphone]** (Speakerphone)
 - 5 **[Call block]** (Call block)
 - 6 Microphone
 - 7 Receiver
 - 8 Display
 - 9 **[Off/Power]** (Off/Power)
 - 10 **[R/ECO]** (R/ECO)
- R: Recall/Flash

ECO: Eco mode shortcut key

- 11 Charge contacts
- A Soft keys
- B Navigator key
- **[▲], [▼], [←], or [→]**: Scroll through various lists and items.
- **[▲]** or **[▼]** (**▲**): Adjust the receiver or speaker volume while talking.
- **[→]** (Caller list): View the caller list.
- **[☰]** (Phonebook): View the phonebook entry.
- **[☎]** (Redial): View the redial list.

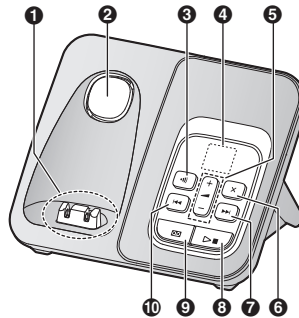
Base unit

■ KX-TGD510 series



- 1 Charge contacts
- 2 **[Locator]** (Locator)

■ KX-TGD520 series



- 1 Charge contacts
- 2 Speaker
- 3 **[••)]** (Locator)
 - You can locate a misplaced handset by pressing **[••)]**.
- 4 Message counter
- 5 **[+]/[-]** (▲/▼: Volume up/down)
- 6 **[X]** (Erase)
- 7 **[▶▶]** (Skip)
- 8 **[▶■]** (Play/Stop)
- Message indicator (▶)
- 9 **[☎]** (Answer on/off)
- 10 **[i◀▶]** (Repeat)

Display icons

Handset display items

Item	Meaning
	Range status: The more bars visible, the closer the handset is to the base unit.
	Out of base unit range
	Security for phone calls is set to "Enhanced". (page 30)
	Paging, intercom mode*1
	Speakerphone is on. (page 14)
	The line is in use. <ul style="list-style-type: none"> • When flashing slowly: The call is on hold. • When flashing rapidly: An incoming call is now being received.
	Missed call*2
	Eco mode is set to "Eco". (page 13)
	Noise reduction is set. (page 15)
	The LCD and key backlight is off. (page 24)

Item	Meaning
	<ul style="list-style-type: none"> • When displayed near the battery icon: Answering system is on.*3 • When displayed with a number: New messages have been recorded.*3 (page 35)
	"Greeting Only" is selected. Caller messages are not recorded.*3
	Battery level
	Alarm is on. (page 26)
	Privacy mode is on.*1 (page 25)
	Ringer volume is off. (page 23)
	Do not disturb mode is on. (page 27)
	Nuisance call blocked.*2 (page 18)
	New voicemail message received.*4 (page 39)
	Baby monitor is activated. The name/number displayed next to the icon indicates the monitoring unit. (page 27)
Line in use	Someone is using the line.*1
IN USE	Answering system is being used by another unit.*3

*1 KX-TGD512/KX-TGD522

*2 Caller ID subscribers only

*3 KX-TGD520 series

*4 Voicemail subscribers only

















Base unit display items

■ KX-TGD520 series

Item	Meaning
--	"Greeting Only" is selected. Caller messages are not recorded. (page 38)


Getting Started

Handset soft key icons

Icon	Action
	Returns to the previous screen or outside call.
	Displays the menu.
OK	Accepts the current selection.
	Makes a call. (page 20)
	Temporarily turns off the ringer for incoming calls. (page 14)
	Places a call on hold.*1
	Opens the phonebook.
	Allows you to edit phone numbers. (page 19)
	Adds new entry. (page 21, 28)
	Turns the key lock feature off. (page 16)
	Stops alarm.
	Snooze button on the alarm. (page 27)
	Selects entries or handset. (page 27)
	Stores phone numbers. (page 14, 20)
	Erases the selected item.
	Allows you to make an intercom call.*1
C	Erases a number/character.
	Puts the call on mute.




*1 KX-TGD512/KX-TGD522

Turning the power on/off








Press  for about 2 seconds.

Language setting

Display language

- 1 #1110
- 2 : Select your desired language. → **[OK]** → 

Date and time




- 1 #1101
- 2 Enter the current date, month, and year. → **[OK]**
Example: 12 July, 2019
  
- 3 Enter the current hour and minute.
Example: 15:30
 
- 4 **[OK]** → 

Note:

- The order in which you enter the date differs according to the selected display language.
Example:
Arabic/Persian: Year/Month/Date
English: Date/Month/Year

Recording your greeting message (KX-TGD520 series)

You can record your own greeting message instead of using a pre-recorded greeting message. See page 34 for details.

- 1 #302
- 2 : "Yes" → **[OK]**
- 3 Record a greeting message. →  → 

Other settings

Eco mode setting

You can select the desired eco mode setting by pressing [R/ECO].

The following settings are available for eco mode.

- “Eco”: Reduces the base unit transmission power by up to 90 % in standby mode. When this setting is selected, **ECO** is displayed on the handset display instead of **Y**.
- “Eco Off” (default setting): Turns off eco mode. When this setting is selected, **ECO** is not displayed in the handset display.

Note:

- When there is another cordless phone in use nearby, the base unit transmission power may not be reduced. (KX-TGD512/ KX-TGD522)
- When eco mode is active, the range of the base unit is reduced in standby mode.
- If you set repeater mode to “On” (page 31):
 - Eco mode is disabled.
 - “Eco Mode” is not displayed in the display menu (page 24).

Dialling mode

- 1 [☰] [#]120
- 2 [↕]: Select the desired setting. → [OK] → [🔄]

Low battery alert

This feature allows the unit to beep when the battery needs charging.

When this feature is turned on, the unit notifies you as follows.

- **When the handset is in standby mode:**
 - If the battery needs charging, the unit beeps at the selected interval up to 3 times.

Note for handset:

- At the end of each call, the unit displays a large icon for a few moments to indicate the battery level.

Setting low battery alert

- 1 [☰] [#]176
- 2 [↕]: Select the desired setting. → [OK] → [🔄]

Making/Answering Calls

Making calls

- 1 Lift the handset and dial the phone number.
 - To correct a digit, press [C].
- 2 [] or []
 - To adjust the receiver or speaker volume, press [▲] or [▼] repeatedly.
- 3 When you finish talking, press [].

Note:

- To switch to the speaker, press []. To switch back to the receiver, press []/[].
- In step 1, you can store the dialled phone number to the phonebook by pressing [].

Making a call using the redial list

The last 10 phone numbers dialled are stored in the redial list.

- 1 []
- 2 []: Select the desired entry. → []

Pause (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service. When storing a calling card access number and/or PIN in the phonebook, a pause is also needed (page 21).

Example: If you need to dial the line access number "0" when making outside calls with a PBX:

- 1 [] → [▲] (Pause)
- 2 Dial the phone number. → []

Answering calls

- 1 Lift the handset and press [] or [] when the unit rings.
- 2 When you finish talking, press [].

Auto talk: You can answer calls simply by lifting the handset (page 24).

Temporary handset ringer off: Press [].

Adjusting the ringer volume

Handset

Press [▲] or [▼] repeatedly while ringing.

- To turn the ringer off, press [▼] repeatedly.

Base unit*1

*1 KX-TGD520 series

Press [+] or [-] repeatedly to select the desired volume while ringing.

- To turn the ringer off, press and hold [-] until the unit beeps.

Useful features during a call

Hold

- 1 Press [] during an outside call.
- 2 []: "Hold" → [OK]
- 3 To release hold, press [].
 - Another handset user can take the call by pressing [].

Note:

- After holding for 10 minutes, the call is disconnected.

Mute

- 1 Press [] during a call.
- 2 To return to the call, press [].

Recall/flash

[R/ECO] allows you to use the special features of your host PBX.

Note:

- To change the recall/flash time, see page 25.

For call waiting or Call Waiting Caller ID service users

To use call waiting or Call Waiting Caller ID, you must first subscribe with your phone service provider.

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.

If you subscribe to both **Caller ID and Call Waiting with Caller ID services**, the 2nd caller's information is displayed on the unit that is in use after you hear the call waiting tone.

- 1 Press **[R/ECO]** to answer the 2nd call.
- 2 To switch between calls, press **[R/ECO]**.

Note:

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

Temporary tone dialling (for rotary/pulse service users)

Press **[X]** before entering access numbers which require tone dialling.

Handset noise reduction

This feature allows you to hear the voice of the person you are talking to more clearly, by reducing the surrounding noise coming from the other party's telephone.

- 1 Press **[M]** while talking.
- 2 **[↕]**: "Noise Reduction On" or "Noise Reduction Off" → **[OK]**

Note:

- Depending on the environment where this handset is being used, this feature may not be effective.
- This feature is not available while using the speakerphone.

Handset equalizer

This feature clarifies the voice of the person you are talking to, producing a more natural-sounding voice that is easier to hear and understand.

- 1 Press **[M]** while talking.
- 2 **[↕]**: "Equalizer" → **[OK]**
- 3 **[↕]**: Select the desired setting.
- 4 Press **[OK]** to exit.

Note:

- Depending on the condition and quality of your telephone line, this feature may emphasise existing line noise. If it becomes difficult to hear, select another setting.
- This feature is not available while using the speakerphone.

Call share

Available for:
KX-TGD512/KX-TGD522

While you are on an outside call, another unit can join the conversation. Only 2 units can join an outside call.

Note:

- To prevent other users from joining your conversations, turn the privacy mode on (page 25).

Transferring calls, conference calls

Available for:
KX-TGD512/KX-TGD522

- 1 During an outside call, press **[M]**.
- 2 **[↕]**: "Intercom" → **[OK]**
- 3 **[↕]**: Select the desired unit. → **[OK]**
 - If you select "Voice Paging", the call will be switched from the ear-receiver mode to the speakerphone mode.

Making/Answering Calls

- Wait for the paged party to answer.
 - If the paged party does not answer, press [↵] to return to the outside call.
- To complete the transfer:**
Press [📞].
To establish a conference call:
[☎] → [↕]: "Conference" → [OK]
 - To leave the conference, press [📞].
 - To put the outside call on hold: [☎] → [↕]: "Hold" → [OK]
To resume the conference: [☎] → [↕]: "Conference" → [OK]
 - To cancel the conference: [☎] → [↕]: "Stop Conference" → [OK]

Intercom

Available for:
KX-TGD512/KX-TGD522

Making an intercom call

- [☎] → [↕]: "Intercom" → [OK]
- [↕]: Select the desired unit or "Voice Paging". → [OK]
 - If you select "Voice Paging", speak into the microphone after the beep. Your voice will be heard using the speakers of all handsets, until a paged party answers your page or until you press [📞].
After the other party answers, the speakerphone mode is turned on.

Note:

- You cannot use voice paging if other units are in use.

Turning auto intercom on/off

This feature allows the handset to answer intercom calls automatically without pressing [📞] when it is called.

- [☎] [#] [2] [7] [3]
- [↕]: Select the desired setting. → [OK] → [📞]

Note:

- This feature is not available for all handsets paging and voice paging even if it is turned on.

Key lock

The handset can be locked so that no calls or settings can be made. Incoming calls can be answered, but most other functions are disabled while the key lock is on.

Important:

- Calls to emergency numbers cannot be made until key lock is turned off.

Setting the key lock mode

- [☎] [#] [2] [4] [6]
- [↕]: Select the desired setting. → [OK] → [📞]

Turning the key lock on/off

■ Without a password:

To turn the key lock on

Press [#] for about 2 seconds during standby mode.

To turn the key lock off

Press [📞] for about 2 seconds.

■ With a password:

To turn the key lock on

1 Press [#] for about 2 seconds during standby mode.

2 Enter your key lock password. → [OK] 2 times

To turn the key lock off

1 Press [📞] for about 2 seconds during standby mode.

2 Enter your key lock password. → [OK] 2 times

Note:

- You can turn off the handset while the key lock is on. Depending on the settings, the state of the handset may change when you turn on the handset again:

Making/Answering Calls

- Without a password: The key lock turns off.
- With a password: The key lock stays on.
- The following keys and operations are available when the key lock is on:
 - **[🔒]** to stop the alarm.
 - Without a password: During a call, all available features can be used as usual. When the call ends, the handset turns the key lock on again.
- When the key lock mode is set to “with Password”:
 - Dial keypad and **[📞]** cannot be used during a call.
 - **[🔒]** (right soft key) is not available during chain dial (page 20).
- Continuous use of the handset other than a handset in power backup mode: 3 hours max.
- Not in use in power backup mode: 3 hours max.

Making calls during a power failure




- **When only 1 handset is registered:**
 - 1 Lift the handset and dial the phone number.
 - 2 Within 1 minute, place the handset on the base unit.
 - Wait until speakerphone is turned on automatically and the call is made.
 - 3 When the other party answers the call, keep the handset on the base unit and talk using the speakerphone.
 - 4 When you finish talking, press **[📞]**.
- **When 2 or more handsets are registered:**

You should leave one handset on the base unit for supplying power, and use another handset for making calls.

Power backup operation

When a power failure occurs, the charged handset temporarily supplies power to the base unit (power backup mode). This allows you to make and receive calls using a handset during a power failure. The base unit will not perform any other functions (page 25).

Important:

- If a handset is not placed on the base unit when a power failure occurs, “Base no power Press **[📞]**” is displayed. After pressing **[📞]** on the handset, place it on the base unit to start power backup mode.
- Power backup mode will not work if the battery level of the power supplying handset is   .
- Do not lift the power supplying handset from the base unit during power backup mode.

Ni-MH battery performance (supplied batteries) during power backup mode

When the batteries are fully charged, operating time of the handset in power backup mode varies depending on usage.

- Continuous use of the handset in power backup mode: 2 hours max.

Answering calls during a power failure

- **When only 1 handset is registered:**
 - 1 When the unit rings, keep the handset on the base unit and press **[🔒]** or **[📞]**.
 - Speakerphone is turned on.
 - 2 When you finish talking, press **[📞]**.
- **When 2 or more handsets are registered:**

When the unit rings, use a handset which is not supplying power to the base unit.

 - Do not use or lift the handset which is placed on the base unit during power backup mode.

Nuisance Call Block

Using the call block button

You can press [📞] in the following situations to disconnect the current call and add a phone number to the call block list:

- when an incoming call is being received
- when talking on an outside call

Once a phone number has been added to the call block list, the unit will block calls from that phone number in the future.

- 1 Press [📞] under the situations shown above.
- 2 Confirm the call block number and press [OK].
 - The call block number is stored in the call block list, “**Caller Blocked**” is displayed, and then the call is disconnected.

Note:

- If the call has no phone number, the call is blocked but it is not stored in the call block list.
- The call block feature is not available for intercom calls or calls received by call waiting.
- Blocked calls are logged in the caller list.

Storing unwanted callers

The unit can block calls by storing the desired items in the call block list beforehand (Caller ID subscribers only).

- “**Single Number**”: The unit blocks calls from specific phone numbers stored in the call block list.
- “**Range of Numbers**”: The unit blocks calls that begin with a number stored in the call block list, such as a toll-free phone number prefix or certain area codes.
- “**Withheld**”: The unit blocks calls that have no phone number.

Single phone numbers and ranges of numbers can be stored in the call block list up to 250 items in total.

Blocking unwanted callers:

When a call is received, the unit does not ring while the caller is being identified.

If the caller's phone number matches an entry in the call block list, the unit emits no sound to the caller, and disconnects the call.

Storing a single phone number

Important:

- You must include the area code when storing phone numbers in the call block list.

Adding call blocked numbers from the caller list

- 1 [➔]
- 2 [↕]: Select the desired entry to be blocked.
- 3 [📞] → [↕]: “Yes” → [OK] → [📞]

Adding call blocked numbers manually

- 1 [📞]
- 2 [↕]: “Single Number” → [OK]
- 3 [☒] → [↕]: “Add” → [OK]
- 4 Enter the phone number (24 digits max.). → [OK] → [📞]

Storing a range of number

- 1 [📞]
- 2 [↕]: “Range of Numbers” → [OK]
- 3 [☒] → [↕]: “Add” → [OK]
- 4 Enter the desired number (2-8 digits). → [OK] → [📞]

Blocking incoming calls that have no phone number

You can block calls when no phone number is provided, such as private callers.

- 1 [📞]
- 2 [↕]: “Withheld” → [OK]

Nuisance Call Block

- 3 [↕]: Select the desired setting. → [OK]
→ [🔍]

Viewing/editing/erasing call block numbers

- 1 [🔍]
- 2 [↕]: "Single Number" or "Range of
Numbers" → [OK]
- 3 [↕]: Select the desired entry.
- 4 To edit a number:
[🔍] → Edit the number. → [OK] →
[🔍]
To erase a number:
[X] → [↕]: "Yes" → [OK] → [🔍]

Phonebook

Phonebook

You can add 150 names (16 characters max.) and phone numbers (24 digits max.) to the phonebook.

Adding phonebook entries

- 1 [□] → [☰]
- 2 [↕]: "New Entry" → [OK]
- 3 Enter the party's name. → [OK]
 - You can change the character entry mode by pressing [R/ECO] (page 39).
- 4 Enter the party's phone number. → [OK]
- 5 [↕]: Select the desired category. → [OK] 2 times → [☎]

Storing a redial list number to the phonebook

- 1 [☎]
- 2 [↕]: Select the desired entry. → [☎]
- 3 To store the name, continue from step 3, "Editing entries", page 20.

Storing caller information to the phonebook

- 1 [→]
- 2 [↕]: Select the desired entry. → [☎]
- 3 [↕]: "Save Phonebook" → [OK]
- 4 To store the name, continue from step 3, "Editing entries", page 20.

Categories

You can assign your phonebook entries to categories for easy searching. You can assign a ringtone to each category to help identify incoming calls (Caller ID required).

Changing category names/setting category ring tone

- 1 [☎] → [☰]
- 2 [↕]: "Category" → [OK]
- 3 [↕]: Select the desired category. → [OK]
- 4 **To change category names**
[↕]: "Category Name" → [OK] → Edit the name. → [OK]
To set category ring tone
[↕]: Select the current setting of the category ring tone. → [OK] → [↕]: Select the desired ring tone. → [OK]
- 5 [☎]

Finding and calling from a phonebook entry

- 1 [☎]
- 2 [↕]: Select the desired entry.
- 3 [☎]

Editing entries

- 1 Find the desired entry (page 20). → [☎]
- 2 [↕]: "Edit" → [OK]
- 3 Edit the name if necessary. → [OK]
- 4 Edit the phone number if necessary. → [OK]
- 5 [↕]: Select the desired category (page 20). → [OK] 2 times → [☎]

Erasing an entry

- 1 Find the desired entry (page 20).
- 2 [☎] → [↕]: "Erase" → [OK]
- 3 [↕]: "Yes" → [OK] → [☎]

Chain dial

This feature allows you to dial phone numbers in the phonebook while you are on a call. This feature can be used, for example, to dial a calling card access number or bank account

PIN that you have stored in the phonebook, without having to dial manually.

- 1 During an outside call, press **[□□]**.
- 2 **[↕]**: Select the desired entry.
- 3 Press **[↶]** (right soft key) to dial the number.

Note:

- When storing a calling card access number and your PIN in the phonebook as one phonebook entry, press **[Δ]** (Pause) to add pauses after the number and PIN as necessary (page 14).
- If you have rotary/pulse service, you need to press **[☒]** before pressing **[□□]** in step 1 to change the dialling mode temporarily to tone. When adding entries to the phonebook, we recommend adding **[☒]** to the beginning of phone numbers you wish to chain dial (page 20).

Speed dial

You can assign 1 phone number to each of the dial keys (**[1]** to **[9]**) on the handset.

Adding phone numbers to speed dial keys

■ By entering phone numbers:

- 1 Press and hold the desired speed dial key (**[1]** to **[9]**). → **[□↶]**
- 2 **[↕]**: “Manual” → **[OK]**
- 3 Enter the party's name. → **[OK]**
- 4 Enter the party's phone number. → **[OK]** 2 times → **[☎]**

■ From the phonebook:

- 1 Press and hold the desired speed dial key (**[1]** to **[9]**). → **[□↶]**
- 2 **[↕]**: “Phonebook” → **[OK]**
- 3 **[↕]**: Select the desired entry. → **[OK]** → **[☎]**

Note:

- If you edit a phonebook entry which is assigned to a speed dial key, the edited

entry does not transfer to the speed dial key.

Editing an entry

- 1 Press and hold the desired speed dial key (**[1]** to **[9]**). → **[☐☐]**
- 2 **[↕]**: “Edit” → **[OK]**
- 3 Edit the name if necessary. → **[OK]**
- 4 Edit the phone number if necessary. → **[OK]** 2 times → **[☎]**

Erasing an entry

- 1 Press and hold the desired speed dial key (**[1]** to **[9]**). → **[☐☐]**
- 2 **[↕]**: “Erase” → **[OK]**
- 3 **[↕]**: “Yes” → **[OK]** → **[☎]**

Making a call

Press and hold the desired speed dial key (**[1]** to **[9]**). → **[☎]**

Programming

Menu list

Scrolling through the display menus: [F5] → Press [▼] or [▲] to select the desired main menu. → [OK]

OR

Using the direct command code: [F5] → Enter the desired code.

Example: Press [F5]#101.

- To exit the operation, press [F6].

Display the menu tree and direct command code table

Main menu: [F5] "Answer System"^{*1}

Sub-menu 1	Sub-menu 2	Settings <Default>	Code	Page
Play New Message	–	–	#323	34
Play All Message	–	–	#324	34
Erase All Message	–	–	#325	34
Greeting	Record Greeting	–	#302	34
	Play Greeting	–	#303	34
	Default (Reset to pre-recorded greeting)	–	#304	34
New Message Alert	Outgoing Call – On/Off	On <Off>	#338	36
	Outgoing Call – Notification to	–		
	Outgoing Call – Remote Code	Activate <Inactivate>		
	Base Unit Beep	On <Off>	#339	36
Settings	Number of Rings	Auto 2-9 Rings <8 Rings>	#211	38
	Recording Time	<3 Minutes> 1 Minute Greeting Only ^{*2}	#305	38
	Remote Code	–	#306	37
	Call Screening	<On> Off	#310	38
Answer On	–	–	#327	34
Answer Off	–	–	#328	34

Programming

Main menu: ☎ “Time Settings”

Sub-menu 1	Sub-menu 2	Settings <Default>	Code	Page
Set Date/Time	–	–	#101	12
Memo Alarm	Alarm 1-3	<Off> Once Daily Weekly	#720	26
Time Adjustment* ³	–	Caller ID <Manual>	#226	–

Main menu: ☎ “Intercom”⁴

Operation	Code	Page
Paging the desired unit.	#274	–

Main menu: ⚙ “Initial Setup”

Sub-menu 1	Sub-menu 2	Settings <Default>	Code	Page
Ringer Setup	Ringer Volume	Off-6 <6>	#160	–
	Ringtone* ⁵	<Ringtone 1>	#161	–
	Do Not Disturb Mode – On/Off	On <Off>	#238	27
	Do Not Disturb Mode – Start/End	<23:00/06:00>	#237	27
	Do Not Disturb Mode – Ring Delay	30 sec. <60 sec.> 90 sec. 120 sec. No Ringing	#239	27
	Do Not Disturb Mode – Select Category	Category 1-9	#241	27
	First Ring* ⁶	<On> Off	#173	–
Time Settings	Set Date/Time	–	#101	12
	Memo Alarm – Alarm 1-3	<Off> Once Daily Weekly	#720	26
	Time Adjustment* ³	Caller ID <Manual>	#226	–
Talking Caller ID	Handset	<On> Off	#162	32
	Base Unit* ¹	<On> Off	#*162	

Programming

Sub-menu 1	Sub-menu 2	Settings <Default>	Code	Page
Low Battery Alert	-	Off <Every Hour> Every 3 Hours Every 6 Hours	#176	13
Nuisance Call Block	Single Number	-	#217	18
	Range of Numbers	-		18
	Withheld	On <Off>	#240	18
Speed Dial	-	-	#261	21
Eco Mode ^{*7}	-	<Off> Eco	#725	13
Security ^{*7}	-	<Normal> Enhanced	#729	30
Record Greeting ^{*1}	-	-	#302	34
Display Setup	LCD & Key Backlight	<On> Off	#276	-
	Contrast (Display contrast)	Level 1-4 <2>	#145	-
	Handset Name	-	#104	29
	Display Name	On <Off>	#105	29
Auto Intercom ^{*4}	-	On <Off>	#273	-
Keytones	-	<On> Off	#165	-
Area Code	-	-	#255	29
Key Lock Mode	-	with Password <without Password>	#246	16
Call Restrict	-	-	#256	30
Auto Talk	-	On <Off>	#200	14

Programming

Sub-menu 1	Sub-menu 2	Settings <Default>	Code	Page
Line Setup	Dial Mode	<Tone> Pulse	#120	13
	Recall/Flash	80 msec. 90 msec. 100 msec. 110 msec. 160 msec. 200 msec. 250 msec. 300 msec. 400 msec. <600 msec.> 700 msec. 900 msec.	#121	14
Privacy Mode*4, *8	-	On <Off>	#194	-
Base Unit PIN	-	<0000>	#132	30
Repeater Mode	-	On <Off>	#138	31
Register	Register Handset	-	#130	30
	Cancel Register*2	-	#131	31
Select Base	-	<Auto>	#137	31
Cancel Base*2	-	-	#139	31
Power Failure	-	<Auto> Off	#152	17
Language	Display	<English>	#110	12

Main menu: ☺ "Baby Monitor"

Sub-menu 1	Sub-menu 2	Settings <Default>	Code	Page
On/Off	-	On <Off>	#268	28
Sensitivity Level	-	Low <Middle> High	#269	29

Main menu: ➔ "Caller List"^{*1}

Operation	Code	Page
Viewing the caller list.	#213	32

Programming

Main menu: 🎵 “Ringer Setup”^{*9}

Sub-menu 1	Sub-menu 2	Settings <Default>	Code	Page
Ringer Volume	–	Off-6 <6>	#160	–
Ringtone ^{*5}	–	<Ringtone 1>	#161	–
Do Not Disturb Mode	On/Off	On <Off>	#238	27
	Start/End	<23:00/06:00>	#237	27
	Ring Delay	30 sec. <60 sec.> 90 sec. 120 sec. No Ringing	#239	27
	Select Category	Category 1-9	#241	27
First Ring ^{*6}	–	<On> Off	#173	–

*1 KX-TGD520 series

*2 This menu is not displayed when scrolling through the display menus. It is only available in direct command code.

*3 This feature allows the unit to automatically adjust the date and time each time caller information including date and time is received.
To turn this feature on, select “**Caller ID**”. To turn this feature off, select “**Manual**”.
(Caller ID subscribers only)
To use this feature, set the date and time first (page 12).

*4 KX-TGD512/KX-TGD522

*5 The preset melodies in this product (“**Ringtone 3**” - “**Ringtone 40**”) are used with permission of © 2012 - 2017 Copyrights Vision Inc.

*6 If you do not want the unit to ring before the caller information is received, set to “**Off**”.
(Caller ID subscribers only)

You can only remove the first ring if the unit rings 2 times or more by default, which depends on your phone service provider.

*7 This menu is not displayed when repeater mode is set to “**on**”.

*8 To prevent other users from joining your conversations with outside callers, turn this feature on.

*9 KX-TGD510 series

Alarm

An alarm sounds at the set time for 1 minute and is repeated 5 times at 5 minute intervals (snooze function). A text memo can also be displayed for the alarm. A total of 3 separate alarm times can be programmed for each handset. You can set one of 3 different alarm

options (once, daily, or weekly) for each alarm time.

1 [📱]#1720

2 [📱]: Select the desired alarm. → [OK]

3 [📱]: Select the desired alarm option. → [OK]

- 4 Proceed with the operation according to your selection in step 3.
 - **Once:**
Enter the desired date and month. → [OK]
 - **Weekly:**
[↕]: Select the desired day of the week and press [✓]. → [OK]
- 5 Set the desired time. → [OK]
- 6 Enter a text memo (10 characters max.). → [OK]
- 7 [↕]: Select the desired alarm tone. → [OK]
- 8 [↕]: Select the desired snooze setting. → [OK]
- 9 [OK] → [🔔]

Note:

- The order in which you enter the date differs according to the selected display language.
Example:
Arabic/Persian: Month/Date
English: Date/Month
- Press any dial key or [🔇] to stop the sound but keep the snooze function activated.
- If you want to make an outside call when the snooze function is activated, please stop the snooze function before making the call.

Do not disturb mode

Do not disturb mode allows you to select a period of time during which the handset will not ring for outside calls. This feature is useful for time periods when you do not want to be disturbed, for example, while sleeping. Do not disturb mode can be set for each unit. Using the phonebook's category feature (page 20), you can also select categories of callers whose calls override do not disturb mode and ring the handset (Caller ID subscribers only).

Important:

- If you have set the alarm, the alarm sounds even if do not disturb mode is turned on.

Turning do not disturb mode on/off

- 1 [☰]#238
- 2 [↕]: Select the desired setting. → [OK]
- 3 Follow the directions on the display to complete the operation.

Changing the start and end time

- 1 [☰]#237
- 2 Follow the directions on the display to complete the operation.

Setting the ring delay

This setting allows the handset to ring during do not disturb mode if the caller waits long enough. After the selected amount of time passes, the handset rings.

- 1 [☰]#239
- 2 [↕]: Select the desired setting. → [OK] → [🔔]

Selecting categories to bypass do not disturb mode

- 1 [☰]#241
- 2 [↕]: Select the desired categories. → [✓]
 - "✓" is displayed next to the selected category numbers.
 - To cancel the selected category: [↕]: Select the category. → Press [✓] again. "✓" disappears.
- 3 [OK] → [🔔]

Baby monitor

This feature allows you to listen in on a room where another handset is located, allowing you to easily monitor from different areas of the house or place. The monitored handset (placed in a baby's room, for example) will automatically call the monitoring handset or the phone number stored when it detects sound.

Programming

Important:

- Before using this feature, we recommend that you test this feature and adjust the baby monitor sensitivity as needed, especially if you plan to monitor from outside.
- This feature should not be used as a substitute for a medical or caregiver's supervision. It is the caregiver's responsibility to stay close enough to handle any eventuality.

Note:

- During the monitoring mode, battery consumption is faster than usual. We recommend leaving the monitored handset on the base unit.
- The monitored handset never rings while it is being monitored.
KX-TGD520 series: If the base unit is placed near the monitored handset, we recommend turning off the base unit ringer volume (page 14).

Setting the baby monitor

Perform the setting operation with the handset to be monitored (for example, the handset placed in a baby's room).

To monitor with a handset

The internal baby monitor feature is available between handsets in the same radio cell.

- 1 **[☰] [#] [2] [6] [8]**
- 2 **[↕]: "On" → [OK]**
- 3 **[↕]:** Select the desired handset number to monitor with. → **[OK]**
 - "Baby Monitor" will be displayed.
 - The registered handset name/number is displayed.

Note:

- When this feature is on, another handset can hear the monitored handset by making an intercom call.

To monitor from an outside line

If you enable this feature, the unit will call a pre-programmed phone number when the

handset detects sound. After you answer the call, you can listen in on the room where the handset is located.

■ From the phonebook:

- 1 **[☰] [#] [2] [6] [8]**
- 2 **[↕]: "On" → [OK]**
- 3 **[↕]:** Select "External" to monitor from an outside line. → **[☑←]**
- 4 **[↕]: "Phonebook" → [OK]**
- 5 **[↕]:** Select the phonebook entry. → **[OK]**
 - "Baby Monitor" will be displayed.

Note:

- If you edit a phonebook entry which is assigned for monitoring, the edited entry does not transfer to the monitor.

■ By entering phone numbers:

- 1 **[☰] [#] [2] [6] [8]**
- 2 **[↕]: "On" → [OK]**
- 3 **[↕]:** Select "External" to monitor from an outside line. → **[☑←]**
- 4 **[↕]: "Manual" → [OK]**
- 5 Enter the desired name. → **[OK]**
- 6 Enter the desired number. → **[OK]** 2 times
 - "Baby Monitor" will be displayed.

Note:

- The registered name/number is displayed.

Turning off the baby monitor

The monitored handset cannot be used while baby monitor is set to "on".

- 1 Press **[☰]** on the handset being monitored.
- 2 **[↕]: "On/Off" → [OK]**
- 3 **[↕]: "Off" → [OK] → [🔇]**

Editing an outside monitoring number

- 1 Press **[☰]** on the handset being monitored.
- 2 **[↕]: "On/Off" → [OK]**
- 3 **[↕]: "On" → [OK]**

Programming

- 1 [↕]: Select the outside line.
- 2 [☒] → [↕]: "Edit" → [OK]
- 3 Edit the name if necessary. → [OK]
- 4 Edit the phone number if necessary. → [OK] 2 times

Erasing an outside monitoring number

- 1 Press [☒] on the handset being monitored.
- 2 [↕]: "On/Off" → [OK]
- 3 [↕]: "On" → [OK]
- 4 [↕]: Select the outside line.
- 5 [☒] → [↕]: "Erase" → [OK]
- 6 [↕]: "Yes" → [OK] → [📞]

Baby monitor sensitivity

You can adjust the sensitivity of the baby monitor. Increase or decrease the sensitivity to adjust the sound level needed to trigger the baby monitor feature.

- This feature cannot be set during a monitoring call.
- 1 Press [☒] on the handset being monitored.
 - 2 [↕]: "Sensitivity Level" → [OK]
 - 3 [↕]: Select the desired setting. → [OK] → [📞]

Answering the baby monitor

■ When monitoring with a handset:

Press [📞] to answer a call.

If you want to respond from the monitoring handset, press [☒].

- The monitoring handset will answer calls automatically when the auto intercom feature is set to "On" (page 16).

Note:

- If you receive an outside call when communicating with the monitored handset, the interrupt tone sounds.

To answer the call, press [📞], then press [📞].

■ When monitoring from an outside line:

Answer the call.

If you want to respond from your monitoring phone, press [☒] using tone dialling.

You can turn off the baby monitor feature by pressing [☒].

Note:

- The unit disconnects the call automatically after 2 minutes.

Other programming

Changing the handset name

- 1 [☒]#1104
- 2 Enter the desired name. → [OK] → [📞]

Displaying the handset name

- 1 [☒]#1105
- 2 [↕]: Select the desired setting. → [OK] → [📞]

Storing an area code to be deleted automatically

In some situations, phone numbers stored automatically in the caller list (page 32) will include area codes. If you do not want to dial the area code when making calls from the caller list, you can store the area code which you want the unit to delete automatically.

Example: You have stored the area code "123". If you make a call from the caller list to the phone number "123-456-7890", the unit dials "456-7890".

- 1 [☒]#1255
- 2 Enter an area code → [OK] → [📞]

Programming

Call restriction

You can restrict selected handsets from dialling certain numbers. You can assign up to 6 phone numbers to be restricted, and select which handsets are to be restricted. Storing area codes here prevents the handset from dialling any phone number in that area code.

- 1 **[☰]#256**
- 2 Enter the base unit PIN (default: "0000").
 - If you forget your PIN, contact an authorised service centre.
- 3 **[↕]**: Select the handsets to be restricted. → **[✓]**
 - To cancel the selected handset, press **[✓]** again. "✓" disappears.
- 4 **[OK]**
- 5 **[↕]**: Select a memory location. → **[OK]**
- 6 Enter the phone number or area code to be restricted (8 digits max.). → **[OK]** → **[☰]**

Enhancing security for phone calls

You can increase the security of phone conversations by setting this feature to "Enhanced". When "Enhanced" is selected, **☰** is displayed. The default setting is "Normal".

- 1 **[☰]#729**
- 2 **[↕]**: Selected the desired setting. → **[OK]**
- 3 **[☰]**

Note:

- If you set repeater mode to "on" (page 31):
 - Security is set to "Normal" and **☰** is displayed.
 - "Security" is not displayed in the display menu (page 24).
- When enhanced security is enabled, sound may cut in and out during conversations.

Changing the base unit PIN

Important:

- If you change the PIN (Personal Identification Number), please make note of your new PIN. The unit will not reveal the PIN to you. If you forget your PIN, contact an authorised service centre.

- 1 **[☰]#132**
- 2 Enter the current 4-digit base unit PIN (default: "0000").
- 3 Enter the new 4-digit base unit PIN. → **[OK]**
- 4 **[↕]**: "yes" → **[OK]** → **[☰]**

Registering a unit

Operating additional units

Additional base units

Handsets can be registered to up to 4 base units, allowing you to add additional base units and extend the area in which your handset(s) can be used. If the handset moves out of range of its base unit when "Auto" is selected on base unit (page 31), it looks for another base unit to make or receive calls. A base unit and the handsets it communicates with is called a "radio cell".

Note:

- Calls are disconnected when the handset moves from one radio cell to another.

Registering a handset to a base unit

- 1 **Handset:**
[☰]#130
- 2 **[↕]**: Select a base unit number. → **[OK]**
 - This number is used by the handset as a reference only.
- 3 **Base unit:**
Press and hold **[☰]** for about 5 seconds.

4 Handset:

[OK] → Wait until “Base PIN” is displayed. → Enter the base unit PIN (default: “0000”). → [OK]

- If you forget your PIN, contact an authorised service centre.

Selecting a base unit

When “Auto” is selected, the handset automatically uses any available base unit it is registered to. When a specific base unit is selected, the handset makes and receives calls using that base unit only.

1 [☐] [#] 1 3 7

2 [↕]: Select the desired base unit number, or “Auto”. → [OK]

Important:

- When viewing the phonebook, caller list, etc., only the entries that are stored in the base unit that the handset is currently connected to are displayed.

Deregistering a handset

1 [☐] [#] 1 3 1

- All handsets registered to the base unit are displayed.

2 [↕]: Select the handset you want to cancel. → [OK]

3 [↕]: “Yes” → [OK] → [☐]

Cancelling a base unit

1 [☐] [#] 1 3 9

2 [↕]: Select the base unit you want to cancel. → [OK]

3 [↕]: “Yes” → [OK] → [☐]

Increasing the range of the base unit

You can increase the signal range of the base unit by using a DECT repeater. Please use only the Panasonic DECT repeater noted on page 3. Contact your Panasonic dealer for details.

Important:

- Before registering the repeater to this base unit, you must turn the repeater mode on.
- If you want to register 2 or more repeaters to the base unit, contact an authorised service centre.

Setting the repeater mode

1 [☐] [#] 1 3 8

2 [↕]: Select the desired setting. → [OK]
→ [☐]

Registering the DECT repeater (KX-A405/KX-A406) to the base unit

Note:

- Please use a repeater that has not yet been registered to another unit. If the repeater is registered to another unit, deregister it first, referring to the Installation Guide for the DECT repeater.

- Base unit:**
Press and hold [☐] for about 5 seconds.
- DECT repeater:**
Connect the AC adaptor, then wait until the ① indicator and ∇ indicator light green.
- Base unit:**
To exit the registration mode, press [☐].

Caller ID Service

Using Caller ID service

Important:

- This unit is Caller ID compatible. To use Caller ID features, you must subscribe to a Caller ID service. Contact your phone service provider for details.

Caller ID features

When an outside call is being received, the caller information is displayed.

Caller information for the last 50 callers is logged in the caller list from the most recent call to the oldest.

- If the unit cannot receive caller information, the following is displayed:
 - “**Out of Area**”: The caller dials from an area which does not provide a Caller ID service.
 - “**Private Caller**”: The caller requests not to send caller information.
- If the unit is connected to a PBX system, caller information may not be properly received. Contact your PBX supplier.

Talking Caller ID

Handset / Base unit*1

*1 KX-TGD520 series

This feature lets you know who is calling by announcing the caller information.

To use this feature, you must:

- subscribe to a Caller ID service of your phone service provider.
- turn this feature on (page 23).

When caller information is received, the handset and base unit announce the caller's phone number received from your phone service provider following every ring.

Note:

- English is used as the language for Talking Caller ID announcements.

Phonebook name announcement

When caller information is received from your phone service provider and it matches a

phone number stored in the phonebook, the stored name is announced.

If that phone number has not been stored in the phonebook, the caller information is announced.

- Name pronunciation may vary. This feature may not pronounce all names correctly.
- Phone number will be announced when storing names using character entry mode beside alphabet and numeric (page 39).

Note:

- For users in name display service available areas:
 - the unit announces the Caller ID name provided by your phone service provider.
 - the unit announces the customized phonebook name if it matches a phone number stored in the phonebook.
 - Caller ID service has a limit of how many characters can be displayed. If a caller's name is too long, the handset may not be able to display or announce the entire name.

Caller list

Viewing the caller list and calling back

- 1 [→]
- 2 Press [▼] to search from the most recent call, or press [▲] to search from the oldest call.
- 3 To call back, press [↶].


Note:

- If you do not want to dial the area code when making calls from the caller list, you can store the area code which you want the unit to delete automatically (page 29).







Editing a caller's phone number

- 1 [→]
- 2 [↕]: Select the desired entry. → [☐☐☐]
- 3 [↕]: “Edit & Call” → [OK]

Caller ID Service

- 4 Edit the number.
- 5 

Erasing selected caller information

- 1 
- 2 : Select the desired entry.
- 3  → : "Yes" →  → 

Answering System

Answering system (KX-TGD520 series)

The answering system can answer calls and record caller messages. If you do not want to record messages, select “**Greeting Only**” as the recording time setting (page 38).

Important:

- Answering system announcements are in English only.

Recording capacity

The total recording time is about 40 minutes, including your greeting message. Up to 64 messages can be recorded.

Note:

- When message memory becomes full:
 - “**Messages Full**” is shown on the handset display.
 - The message counter on the base unit flashes if the answering system is turned on.

Turning the answering system on/off

The answering system is preset to on.

Base unit

Press **[☎]** to turn on/off the answering system.

Greeting message

Recording your greeting message

- 1 **[☎]#302**
- 2 **[↕]: “Yes” → [OK]**
- 3 After a beep sounds, hold the handset and speak clearly into the microphone.
- 4 Press **[■]** to stop recording. → **[☎]**

Using a pre-recorded greeting message

The unit provides 2 pre-recorded greeting messages:

- If you erase or do not record your own greeting message, the unit plays a pre-recorded greeting asking callers to leave a message.
- If the message recording time (page 38) is set to “**Greeting Only**”, callers’ messages are not recorded and the unit plays a different pre-recorded greeting message asking callers to call again.

Resetting to a pre-recorded greeting message

- 1 **[☎]#304**
- 2 **[OK] → [☎]**

Playing back the greeting message

- 1 **[☎]#303**
- 2 **[☎]**

Listening to messages

Important:

- When using the base unit or handset to listen to messages, the noise reduction feature (page 15) is activated automatically in spite of the setting (**NR** is not displayed).

Using the base unit

When new messages have been recorded, the message indicator (▶) on the base unit flashes.

Press **[▶■]**.

- During playback, the message indicator (▶) on the base unit lights.

Answering System

- New messages will be played. If there are no new messages, old messages will be played.

Operating the answering system during playback

Key	Operation
[+] or [-]	Adjust the speaker volume
[◀◀]	Repeat message
[▶▶]	Skip message
[▶■]	Stop playback
[X]	Erase currently playing message

Rewinding the message

Press and hold [◀◀] until the unit plays the desired part of the message.

- During rewinding, the base unit makes a continuous beeping sound. Rewinding speed may vary depending on the recorded message.
- At the beginning of the message, the unit plays the message at normal speed.

Fast-forwarding the message

Press and hold [▶▶] until the unit plays the desired part of the message.

- During fast-forwarding, the base unit makes a continuous beeping sound. Fast-forwarding speed may vary depending on the recorded message.
- Even if you press and hold [▶▶] when the end of this message is played, the next message is played at normal speed.

Erasing all messages

Press [X] 2 times while the unit is not in use.

Using the handset

When new messages have been recorded, **00** is displayed.

1 To listen to new messages:

[☎] # [3] [2] [3]

To listen to all messages:

[☎] # [3] [2] [4]

2 When finished, press [📞].

Operating the answering system

[☎] → [00] → [OK]

Key	Operation
[▲] or [▼]	Adjust the receiver or speaker volume (during playback)
1 or [◀]	Repeat message (during playback)
2 or [▶]	Skip message (during playback)
3	Enter the "Settings" menu
4	Play new messages
5	Play all messages
6	Play greeting message
7/6	Record greeting message
8	Turn answering system on
[☎]	Pause message*1
9 or [■]	Stop recording Stop playback
0	Turn answering system off
[X] 4	Erase currently playing message
[X] 5	Erase all messages
[X] 6	Reset to a pre-recorded greeting message

*1 To resume playback:
[↕]: "Play" → [OK]

Calling back (Caller ID subscribers only)

1 Press [☎] during playback.

2 [↕]: "Call Back" → [OK]

Answering System

Advanced new message alerting features

Audible message alert

This feature allows the base unit to beep to inform you of a new message arrival when new messages are recorded. The base unit beeps 2 times every minute until you listen to the messages, if the “**Base Unit Beep**” setting is turned on.

- 1 [☐][☐][#][3][3][9]
- 2 [↕]: Select the desired setting. → [OK] → [🔊]

New message alert by a call

This feature allows you to receive a notification by phone when new messages are recorded. The base unit calls a phone number you specify. You can then operate the answering system remotely to listen to the new message.

To use this feature, you must:

- store a phone number to which the unit makes the call to.
- turn on the new message alert setting. After you answer the new message alert call, you can listen to messages from that call (page 37).

Important:

- A new message alert is stopped 1 minute after the unit starts to call. The unit will not retry the call even if the call is not answered.

Storing a phone number to which the unit makes an alert call

- From the phonebook:
 - 1 [☐][☐][#][3][3][8]
 - 2 [↕]: “Notification to” → [OK] → [☑]
 - 3 [↕]: “Phonebook” → [OK]
 - 4 [↕]: Select the desired phonebook entry. → [OK] → [🔊]

■ By entering a phone number:

- 1 [☐][☐][#][3][3][8]
- 2 [↕]: “Notification to” → [OK] → [☑]
- 3 [↕]: “Manual” → [OK]
- 4 Enter the desired name. → [OK]
- 5 Enter the desired number. → [OK] 2 times → [🔊]

Turning on/off the new message alert setting

- 1 [☐][☐][#][3][3][8]
- 2 [↕]: “On/Off” → [OK]
- 3 [↕]: Select the desired setting. → [OK] → [🔊]

Editing the set phone number

- 1 [☐][☐][#][3][3][8]
- 2 [↕]: “Notification to” → [OK]
- 3 [☐] → [↕]: “Edit” → [OK]
- 4 Edit the name if necessary. → [OK]
- 5 Edit the phone number if necessary. → [OK] 2 times → [🔊]

Erasing the set phone number

- 1 [☐][☐][#][3][3][8]
- 2 [↕]: “Notification to” → [OK]
- 3 [☐] → [↕]: “Erase” → [OK]
- 4 [↕]: “Yes” → [OK] → [🔊]
 - The new message alert setting is turned off.

Activating/inactivating the remote access code to play messages

If you activate this feature, you must enter the remote access code (page 37) to play the new message from the new message alert call. This is so that unauthorised parties cannot listen to your messages. The default setting is “**Inactivate**”.

- **“Inactivate”**: You can listen to the message by pressing **[4]** to play new messages (without entering the remote access code).
- **“Activate”**: You must enter your remote access code and then press **[4]** to play new message.

- 1 **[*][#][3][3][8]**
- 2 **[↕]**: “Remote Code” → **[OK]**
- 3 **[↕]**: Select the desired setting. → **[OK]**
→ **[📞]**

Listening to messages

After you answer the new message alert, you can listen to the messages as follows.

- **When the remote access code is set to “Inactivate”**:
Press **[4]** to play the new message during the announcement.
- **When the remote access code is set to “Activate”**:

- 1 Enter the remote access code (page 37) during the announcement.
- 2 Press **[4]** to play the new message.

Note:

- Within 10 seconds after listening to new messages, you can press **[#][9]** during the call to turn off the new message alert by a call feature.
- Even if the unit makes a new message alert call, the handset redial list does not show the record.

Remote operation

You can use a touch-tone phone to call the unit while away from home and listen to messages.

Remote access code

A 3-digit remote access code must be entered when operating the answering system remotely. This code prevents unauthorised parties from listening to your messages remotely.

Important:

- In order to operate the answering system remotely, you must first set a remote access code.

- 1 **[*][#][3][0][6]**
- 2 Enter the desired 3-digit remote access code.
- 3 **[OK]** → **[📞]**

Using the answering system remotely

- 1 Dial your phone number from a touch-tone phone.
- 2 After the greeting message starts, enter your remote access code.
- 3 Follow the voice guidance prompts as necessary or control the unit using remote commands (page 37).
- 4 When finished, hang up.

Voice guidance

During remote operation, the unit's voice guidance starts and prompts you to press **[1]** to perform a specific operation, or press **[2]** to listen to more available operations.

Note:

- If you do not press any dial keys within 10 seconds after a voice guidance prompt, the unit disconnects your call.

Remote commands

Key	Operation
[1]	Repeat message (during playback)
[2]	Skip message (during playback)
[4]	Play new messages
[5]	Play all messages
[6]	Play greeting message
[7]	Record greeting message

Answering System

Key	Operation
[9]	Stop recording Stop playback
[0]	Turn answering system off
[*]4	Erase currently playing message
[*]5	Erase all messages
[*]6	Reset to a pre-recorded greeting message (during greeting message playback)
[*]#	End remote operation (or hang up)

Turning on the answering system remotely

- 1 Dial your phone number from a touch-tone phone.
- 2 Let the phone ring 15 times.
 - A long beep is heard.
- 3 Enter your remote access code within 10 seconds after the long beep.
 - The greeting message is played back.
 - You can either hang up, or enter your remote access code again and begin remote operation (page 37).

Answering system settings

Call screening

While a caller is leaving a message, you can listen to the call through the handset's speaker.

- 1 [☰]#310
- 2 [↕]: Select the desired setting. → [OK]
→ [📞]

Number of rings before the unit answers a call

You can change the number of times the phone rings "**Number of Rings**" before the unit answers a call. You can select 2 to 9 rings, or "**Auto**".

The default setting is "**8 Rings**".

"**Auto**": The unit's answering system answers at the end of the 5th ring when new messages have been recorded, or at the end of the 8th ring when there are no new messages.

- 1 [☰]#211
- 2 [↕]: Select the desired setting. → [OK]
→ [📞]

Caller's recording time

You can change the maximum message recording time allowed for each caller.

- 1 [☰]#305
- 2 [↕]: Select the desired setting. → [OK]
→ [📞]

Selecting "Greeting Only"

You can select "**Greeting Only**" which sets the unit to announce a greeting message to callers but not record messages.

Select "**Greeting Only**" in step 2 on "Caller's recording time", page 38.

Voicemail service


In addition to your unit's answering system you may also have voicemail service from your phone service provider. Voicemail is an answering service that may be offered by your phone service provider. This service can also record calls when you are unavailable to answer the phone or when your line is busy. Messages are recorded on the phone company system and not on the unit's answering system.

- To use the voicemail service rather than the unit's answering system, turn off the answering system (page 34).


If you have unit's answering system set to on and also the voicemail enabled, the system with least amount of rings will record the message first.

Example:

If the unit's answering system is set to 4 rings (page 38) and the voicemail answering system provided by your phone company is set to 6 rings (call your service provider), the unit's answering system will record the incoming call first.

When you have new messages,  is displayed on the handset if message indication service is available. Please contact your phone service provider for details of this service.

Important:

- If  still remains on the display even after you have listened to new messages, turn it off by pressing and holding **[END]** for 2 seconds.

Character entry

The dial keys are used to enter characters and numbers. Each dial key has multiple characters assigned to it. The characters that can be entered depend on the character entry mode (page 39).

- Press **[◀]** or **[▶]** to move the cursor left or right.
- Press dial keys to enter characters and numbers.
- Press **[C]** to erase the character or number highlighted by the cursor. Press and hold **[C]** to erase all characters or numbers.
- Press **[A→a]** to switch between uppercase and lowercase.
- If you do not press any dial key within 2 seconds after entering a character, the character is fixed and the cursor moves to the next space.
- When entering another character located on the same dial key, operation will differ depending on the display language you select.

English

- Press **[▶]** to move the cursor to the next space, then press the appropriate dial key.

Arabic/Persian

- Press **[◀]** to move the cursor to the next space, then press the appropriate dial key.

Character entry modes

When the unit displays the character entry screen:

[R/ECO] → **[↓]**: Select a character entry mode. → **[OK]**

Note:

- **_** in the following tables represents a single space.

Useful Information

- When you select Arabic or Persian as the display language, numbers in the character table are displayed in Arabic or Persian.

Alphabet character table (ABC)

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

Numeric entry table (0-9)

0	1	2	3	4	5	6	7	8	9	#
0	1	2	3	4	5	6	7	8	9	#

Arabic character table (أبج)

- When you select Arabic as the display language, Arabic character table is available.

0	1	2	3	4	5	6	7	8	9	#
0	() ' & * , - . / 1	ث ج ح ٢ خ ح	ا ب ة ٣ ا ا ا	ط ط ع غ ٤	س ش ص ض ٥	ذ ز ر ز ٦	ي ع ٧	م ن ه و ٨ ٩	ف ك ل ك ك ل	#

Persian character table (أبج)

- When you select Persian as the display language, Persian character table is available.

0	1	2	3	4	5	6	7	8	9	#
0	() ' & * , - . / 1	ث ج ح ٢ خ ح	ا ب ة ٣ ا ا ا	ط ط ع غ ٤	س ش ص ض ٥	ذ ز ر ز ٦	ي ع ٧	م ن ه و ٨ ٩	ف ك ل ك ك ل	#

Extended character table (AÄÄ)

0	1	2	3	4	5	6	7	8	9	#
0	& ' () * , - . / 1	A Ä Á Â Ã Ä Å Æ B C Ç 2	D E È É Ê Ë Ë Ì Í Ï Î Ï 3	G Ö H I Ï Î Ï Î Ï 4	J K L 5	M N Ñ O Ò Ó Ô Ö Ø 6	P Q R S Ş ß 7	T U Û Ü Ú Û Ü V 8	W Ŵ X Y Ý Z 9	#
		a ä å á â ã ä å æ b c ç 2	d e è é ê ë ë ì í ï î ï 3	g ö h i ï î ï î ï 4	j k l 5	m n ñ o ò ó ô ö ø 6	p q r s ş ß 7	t u ù ú û ü ü v 8	w ŵ x y ý z 9	

- The following are used for both uppercase and lowercase: ø Ŵ ŵ

Error messages

Display message	Cause/solution
Base no power or No link. Reconnect AC adaptor. or No link.	<ul style="list-style-type: none"> ● Confirm the base unit's AC adaptor is connected to the unit and the power outlet correctly. ● The handset has lost communication with the base unit. Move closer to the base unit and try again. ● Unplug the base unit's AC adaptor to reset the unit. Reconnect the adaptor and try again. ● The handset's registration may have been cancelled. Re-register the handset (page 30). ● When "No link." is displayed during a power failure, place a handset on the base unit to supply power to the base unit.
Check Phone Line	<ul style="list-style-type: none"> ● The supplied telephone line cord has not been connected yet or not connected properly. Check the connections (page 8).
Error	<ul style="list-style-type: none"> ● Recording was too short. Try again.
Memory Full	<ul style="list-style-type: none"> ● The phonebook memory is full. Erase unwanted entries (page 20). ● The call block list memory is full. Erase unwanted entries (page 19). ● The maximum number of base units (4) is already registered to the handset. Cancel unused base unit registrations from the handset (page 31).
Use rechargeable battery.	<ul style="list-style-type: none"> ● A wrong type of battery such as alkaline or manganese was inserted. Use only the rechargeable Ni-MH batteries noted on page 3, 6.

Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the base unit's AC adaptor and turn off the handset, then reconnect the base unit's AC adaptor and turn on the handset.

General use

Problem	Cause/solution
The handset does not turn on even after installing charged batteries.	<ul style="list-style-type: none"> ● Place the handset on the base unit or charger to turn on the handset.


Useful Information

Problem	Cause/solution
The unit does not work.	<ul style="list-style-type: none">● Make sure the batteries are installed correctly (page 8).● Fully charge the batteries (page 9).● Check the connections (page 8).● Unplug the base unit's AC adaptor to reset the unit and turn off the handset. Reconnect the adaptor, turn on the handset and try again.● The handset has not been registered to the base unit. Register the handset (30).
The handset display is blank.	<ul style="list-style-type: none">● The handset is not turned on. Turn the power on (page 12).
I cannot hear a dial tone.	<ul style="list-style-type: none">● Make sure that you are using the supplied telephone line cord. Your old telephone line cord may have a different wiring configuration.● The base unit's AC adaptor or telephone line cord is not connected. Check the connections.
I cannot use the intercom feature.	<ul style="list-style-type: none">● This feature is available between the handsets. Although the handset displays "Intercom", or "Auto Intercom", these features are not available for single handset models.
Time on the unit has shifted.	<ul style="list-style-type: none">● Incorrect time information from incoming Caller ID changes the time. Set the time adjustment to "Manual" (off) (page 23).

Menu list

Problem	Cause/solution
I cannot activate the eco mode.	<ul style="list-style-type: none">● You cannot set eco mode when you set the repeater mode "on". If required, set the repeater mode to "off" (page 31).
I cannot remember the key lock password.	<ul style="list-style-type: none">● If you forget your password, contact an authorised service centre.

Battery recharge

Problem	Cause/solution
I fully charged the batteries, but <ul style="list-style-type: none">–  still flashes or– the operating time seems to be shorter.	<ul style="list-style-type: none">● Clean the battery ends (\oplus, \ominus) and the charge contacts with a dry cloth and charge again.● It is time to replace the batteries (page 8).

Useful Information

Making/answering calls, intercom

Problem	Cause/solution
📵 is displayed.	<ul style="list-style-type: none">• The handset is too far from the base unit. Move closer.• The base unit's AC adaptor is not properly connected. Reconnect AC adaptor to the base unit.• The handset is not registered to the base unit. Register it (page 30).• Activating eco mode reduces the range of the base unit in standby mode. If required, turn eco mode off (page 13).
Noise is heard, sound cuts in and out.	<ul style="list-style-type: none">• You are using the handset or base unit in an area with high electrical interference. Re-position the base unit and use the handset away from sources of interference.• Move closer to the base unit.• If you use a DSL/ADSL service, we recommend connecting a DSL/ADSL filter between the base unit and the telephone line jack. Contact your DSL/ADSL provider for details.
Sound quality seems to be getting worse.	<ul style="list-style-type: none">• You have registered a handset that is not recommended. The clearest sound quality is only possible by registering the provided handset.
The handset does not ring.	<ul style="list-style-type: none">• The ringer volume is turned off. Adjust ringer volume (page 14, 23).• Do not disturb mode is turned on. Turn it off (page 27).• If the handset is registered to multiple base units, the handset may not be able to make or receive calls or communicate with the base unit when the following conditions are met.<ul style="list-style-type: none">– Base unit selection is set to "Auto" (page 25). In this case, place the handset near the base unit, then press [R/ECO] and select "ECO" or "ECO OFF". Repeat for each base unit.
I cannot make a call.	<ul style="list-style-type: none">• The dialling mode may be set incorrectly. Change the setting (page 13).• You dialled a call restricted number (page 30).• The key lock feature is turned on. Turn it off (page 16).

Caller ID/Talking Caller ID

Problem	Cause/solution
Caller information is not displayed.	<ul style="list-style-type: none">• You must subscribe to a Caller ID service. Contact your phone service provider for details.• If your unit is connected to any additional telephone equipment, remove and plug the unit directly into the wall jack.• If you use a DSL/ADSL service, we recommend connecting a DSL/ADSL filter between the base unit and the telephone line jack. Contact your DSL/ADSL provider for details.
Caller information is displayed or announced late.	<ul style="list-style-type: none">• Depending on your phone service provider, the unit may display or announce the caller's information at the 2nd ring or later. Set the first ring to "OFF" (page 23).

Useful Information

Problem	Cause/solution
Caller information is not announced.	<ul style="list-style-type: none">● To use the Talking Caller ID feature, store the name and phone number in the phonebook (page 20).● The handset or base unit's ringer volume is turned off. Adjust it (page 14, 23).● The Talking Caller ID feature is turned off. Turn it on (page 23).
The name stored in the phonebook is not fully displayed while an outside call is being received.	<ul style="list-style-type: none">● Edit the phonebook entry name to fit in 1 line of text (page 20).

Answering system

Problem	Cause/solution
The unit does not record new messages.	<ul style="list-style-type: none">● The answering system is turned off. Turn it on (page 34).● The message memory is full. Erase unwanted messages (page 38).● The recording time is set to "Greeting Only". Change the setting (page 38).● Your phone service provider's voicemail service may be answering your calls before the unit's answering system can answer your calls. Change the unit's number of rings setting (page 38) to a lower value, or contact your phone service provider.● The answering system will not answer incoming calls while the other devices such as handsets are engaged in a call.

Liquid damage

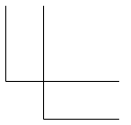
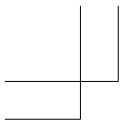
Problem	Cause/solution
Liquid or other form of moisture has entered the handset/base unit.	<ul style="list-style-type: none">● Disconnect the AC adaptor and telephone line cord from the base unit. Remove the batteries from the handset and leave to dry for at least 3 days. After the handset/base unit are completely dry, reconnect the AC adaptor and telephone line cord. Insert the batteries and charge fully before use. If the unit does not work properly, contact an authorised service centre.

Caution:

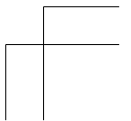
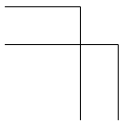
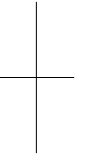
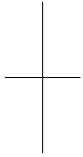
- To avoid permanent damage, do not use a microwave oven to speed up the drying process.

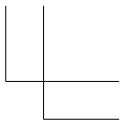
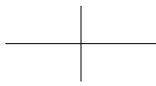
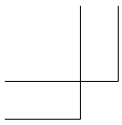
Index

- A** Additional base units: 30
- Alarm: 26
- Answering calls: 14
- Answering system: 34
 - Call screening: 38
 - Erasing messages: 35, 38
 - Greeting message: 34
 - Greeting only: 38
 - Listening to messages: 34, 35, 37
 - New message alerting: 36
 - Number of rings: 38
 - Recording time: 38
 - Remote access code: 37
 - Remote operation: 37
 - Turning on/off: 34
- Area code: 29
- Auto intercom: 16
- Auto talk: 14, 24
- B** Baby monitor: 27
- Base unit
 - Cancelling: 31
 - Selecting: 31
- Battery: 8
- C** Call restriction: 30
- Call share: 15
- Call waiting: 15
- Call Waiting Caller ID: 15
- Caller ID service: 32
- Caller list: 32
- Caller list edit: 32
- Category: 20
- Chain dial: 20
- Character entry: 39
- Conference calls: 15
- D** Date and time: 12
- Dialling mode: 13
- Direct command code: 22
- Display
 - Contrast: 24
 - Language: 12
- Do not disturb mode: 27
- E** Eco mode: 13
- Equalizer: 15
- Error messages: 41
- F** First ring: 23
- H** Handset
 - Deregistration: 31
 - Name: 29
 - Registration: 30
- Hold: 14
- I** Intercom: 16
- K** Key lock: 16
- Keytones: 24
- L** Low battery alert: 13
- M** Making calls: 14
- Mute: 14
- N** Noise reduction: 15
- Nuisance Call block: 18
- P** Pause: 14
- Phonebook: 20
- PIN: 30
- Power failure (power backup operation): 17
- Power on/off: 12
- Privacy mode: 25
- R** Recall/flash: 14
- Redialling: 14
- Repeater: 31
- Ringer tone: 23
- S** Security for phone calls: 30
- Speakerphone: 14
- Speed dial: 21
- T** Talking Caller ID: 32
- Temporary tone dialling: 15
- Time adjustment: 23
- Transferring calls: 15
- Troubleshooting: 41
- V** Voicemail: 39
- Volume
 - Ringer (Base unit): 14
 - Ringer (Handset): 14, 23

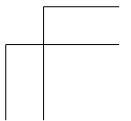
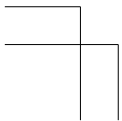
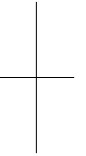
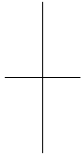


Notes





Notes



For your future reference

We recommend keeping a record of the following information to assist with any repair under warranty.

Serial No.	Date of purchase
(found on the bottom of the base unit)	
Name and address of dealer	

Attach your purchase receipt here.

Panasonic Corporation
1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, Japan
<http://www.panasonic.com>

© Panasonic Corporation 2019



PNQX8975ZA

PNQX8975ZA PP1019YM0