Panasonic®

Operating Instructions

Digital Cordless Answering System

Model No. **KX-TG6521AL**
KX-TG6522AL
KX-TG6523AL

Model shown is KX-TG6521.

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.
This unit is compatible with Caller ID. You must subscribe to the appropriate service offered by your service provider/telephone company.

Please access our online customer survey:
http://panasonic.net/pcc/tel/q

Table of Contents

Model composition

Series	Model No.	Base unit	Handset	
		Part No.	Part No.	Quantity
KX-TG6521 series	KX-TG6521[*1]	KX-TG6521	KX-TGA651	1
	KX-TG6522	KX-TG6521	KX-TGA651	2
	KX-TG6523	KX-TG6521	KX-TGA651	3

*1 Feature differences: Intercom calls can be made between handsets by purchasing and registering one or more optional handsets (page 4).

● The suffix (AL) in the following model numbers will be omitted in these instructions: KX-TG6521AL/KX-TG6522AL/KX-TG6523AL

Accessory information

Supplied accessories

No.	Accessory item/Part number	Quantity		
		KX-TG6521	KX-TG6522	KX-TG6523
①	AC adaptor/PQLV219AL	1	2	3
②	Telephone line cord[*1]	1	1	1
③	Rechargeable batteries[*2]/ HHR-55AAAB or N4DHYYY00001	2	4	6
④	Handset cover[*3]	1	2	3
⑤	Charger	—	1	2

*1 The telephone line cord comes connected with the telephone plug.

*2 See page 4 for replacement battery information.

*3 The handset cover comes attached to the handset.

①   ②   ③   ④   ⑤
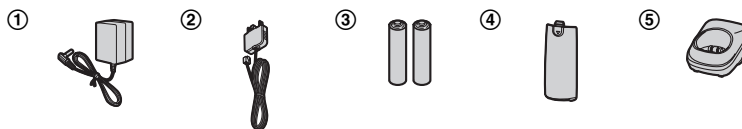
Introduction

Additional/replacement accessories

Please contact your nearest Panasonic dealer for sales information.

Accessory item	Model number
Rechargeable batteries	HHR-4DPA/2B or HHR-4MRT/2B[*1]
	Battery type: – Nickel metal hydride (Ni-MH) – 2 x AAA (R03) size for each handset
DECT repeater	KX-A272AL

*1 Replacement batteries may have a different capacity from that of the supplied batteries.

Expanding your phone system

You can expand your phone system by registering optional handsets (6 max.) to a single base unit.

● Optional handsets may be a different colour from that of the supplied handsets.

Handset (optional): KX-TGA651AZ

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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.
- It is advised not to use the equipment at a refuelling point. Users are reminded to observe restrictions on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress.

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 socket, 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 sockets in wet locations unless the socket 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.
- This product is unable to make calls when:
  - the handset batteries need recharging or have failed.
  - there is a power failure.

Important Information

– the key lock feature is turned on.

Battery

● We recommend using the batteries noted on page 4. **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.

General notices

● Please ensure that a separate telephone, not dependent on local power, is available for emergency use.

● This equipment will be inoperable when mains power fails.

● When a failure occurs which results in the internal parts becoming accessible, disconnect the power supply cord immediately and return this unit to an authorised service centre.

● To minimise the possibility of lightning damage, when you know that a thunderstorm is coming, we recommend that you:
  – Unplug the telephone line cord from the phone socket.
  – Unplug the AC adaptor from the AC power outlet.

● No "000" or other calls can be made from this device during a mains power failure.

● The earpiece on the handset is magnetised and may retain small metallic objects.

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 (including 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

Base unit location/avoiding noise

The base unit and other compatible Panasonic units use radio waves to communicate with each other.

● For maximum coverage and noise-free communications, place your base unit:
  – at a convenient, high, and central location with no obstructions between the handset and base unit in an indoor environment.
  – away from electronic appliances such as TVs, radios, personal computers, wireless devices, or other phones.
  – facing away from radio frequency transmitters, such as external antennas of mobile phone cell stations. (Avoid putting the base unit on a bay window or near a window.)

● Coverage and voice quality depends on the local environmental conditions.

● If the reception for a base unit location is not satisfactory, move the base unit to another location for better reception.

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 radiators, cookers, 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.
● 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 electrical appliances may cause interference. Move away from the electrical appliances.

Routine care

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

Other information

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.

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.

Specifications

■ **Standard:**
GAP (Generic Access Profile)
■ **Frequency range:**
1.88 GHz to 1.90 GHz
■ **RF transmission power:**
Approx. 10 mW (average power per channel)
■ **Power source:**
220–240 V AC, 50/60 Hz
■ **Power consumption:**
Base unit:
Standby: Approx. 0.5 W
Maximum: Approx. 3.8 W
Charger:
Standby: Approx. 0.2 W
Maximum: Approx. 3.0 W
■ **Operating conditions:**
0 °C – 40 °C, 20 % – 80 % relative air humidity (dry)

Note:

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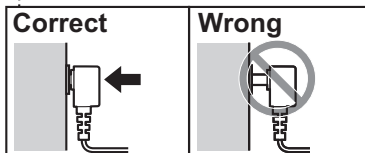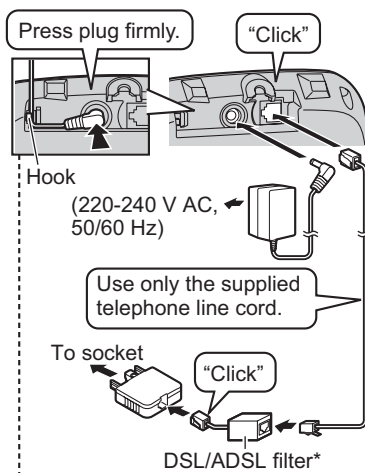● The illustrations in these instructions may vary slightly from the actual product.
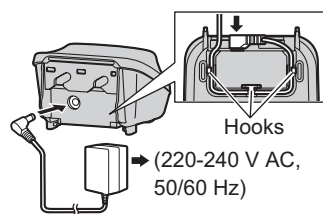
Setting up

Connections

● Use only the supplied Panasonic AC adaptor PQLV219AL.

■ Base unit

Press plug firmly.

"Click"

Hook

(220-240 V AC, 50/60 Hz)

Use only the supplied telephone line cord.

To socket

"Click"

DSL/ADSL filter*

Correct	Wrong

*DSL/ADSL filter (not supplied) is required if you have DSL/ADSL service.

■ Charger

Hooks

(220-240 V AC, 50/60 Hz)

Battery installation

● USE ONLY Ni-MH batteries AAA (R03) size.
● Do NOT use Alkaline/Manganese/Ni-Cd batteries.
● Confirm correct polarities ($\oplus$, $\ominus$).

Rechargeable Ni-MH ONLY
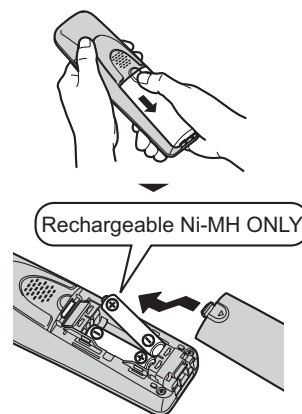
● When the language selection is displayed, see page 12.

Battery charge

Charge for about 7 hours.

● When the batteries are fully charged, the charge indicator goes off and **"Fully charged"** is displayed.

Confirm **"Charging"** is displayed.

Charge indicator

8
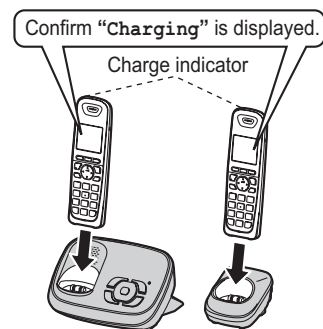
Note when setting up

Note for connections

- 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 is not designed to be used with rotary/pulse dialling services.

During a power failure

The unit will not work during a power failure. We recommend connecting a corded-type telephone (without AC adaptor) to the same telephone line or to the same telephone line socket using a telephone double adaptor.

Note for battery installation

- Use the supplied rechargeable batteries. For replacement, we recommend using the Panasonic rechargeable batteries noted on page 4, 6.
- Wipe the battery ends ($\oplus$, $\ominus$) with a dry cloth.
- Avoid touching the battery ends ($\oplus$, $\ominus$) or the unit contacts.

Note for battery charge

- It is normal for the handset to feel warm during charging.
- Clean the charge contacts of the handset, base unit, and charger with a soft and dry cloth once a month. Clean more often if the unit is exposed to grease, dust, or high humidity.

Battery level

Icon	Battery level
▤	High
▤	Medium
▢	Low
▢	Needs charging.

Panasonic Ni-MH battery performance (supplied batteries)

| Operation	Operating time
In continuous use	18 hours max.
Not in use (standby)	170 hours max.

Note:

- It is normal for batteries not to reach full capacity at the initial charge. Maximum battery performance is reached after a few complete cycles of charge/discharge (use).
- Actual battery performance depends on usage and ambient environment.
- Even after the handset is fully charged, the handset can be left on the base unit or charger without any ill effect on the batteries.
- The battery level may not be displayed correctly after you replace the batteries. In this case, place the handset on the base unit or charger and let it charge for at least 7 hours.

TG6521AL(e).book Page 10 Friday, February 26, 2010 5:07 PM

Getting Started

Controls

Handset

Ⓐ
Ⓑ
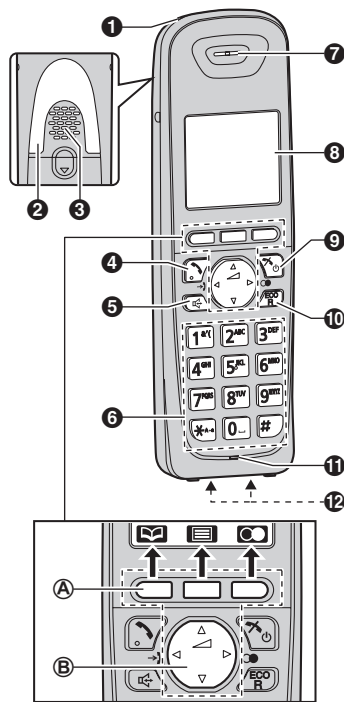
a Charge indicator
  Ringer indicator
b Secure grip
  ● Secure grip offers support when
    you cradle the handset between
    your shoulder and ear.
c Speaker
d 【🕿】 (Talk)
e 【🕪】 (Speakerphone)
f Dial keypad
g Receiver
h Display
i 【🕿⏻】 (Off/Power)

j 【ECO/R】
  ECO: Eco mode shortcut key
  R: Recall/Flash
k Microphone
l Charge contacts

■ **Control type**
  Ⓐ **Soft keys**
  The handset features 3 soft keys. By
  pressing a soft key, you can select the
  feature shown directly above it on the
  display.
  Ⓑ **Navigator key**
  – 【▲】, 【▼】, 【◄】, or 【►】: Scroll through
    various lists and items.
  – ⏴ (Volume: 【▲】 or 【▼】): Adjust the
    receiver or speaker volume while
    talking.
  – 【◄】 (⏴: Caller list): View the caller
    list.
  – 【►】 (O●: Redial): View the redial
    list.

Base unit
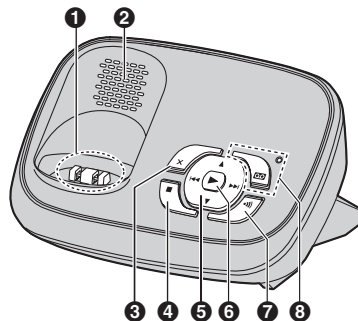
a Charge contacts
b Speaker
c 【✕】 (Erase)
d 【■】 (Stop)
e 【▲】/【▼】 (Volume up/down)
  【I◄◄】/【►►I】 (Repeat/Skip)
f 【►】 (Play)
  Message indicator

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❼ 【•))】 (Locator)
❽ 【▣】 (Answer on)
   Answer on indicator

Display

Handset display items

Item	Meaning
📶	Within base unit range
📶	Out of base unit range
•))	Paging, intercom mode.
🕩	Speakerphone is on. (page 14)
➘	The line is in use. ● When flashing slowly: The call is put on hold. ● When flashing rapidly: An incoming call is now being received.
➔	Missed call[*1] (page 26)
ECO	The base unit transmission power is set to **"Low"**. (page 13)
🔅	The LCD and key backlight is off. (page 20)
▣	● When displayed next to the battery icon: Answering system is on. (page 28) ● When displayed with a number: New messages have been recorded. (page 30)

Item	Meaning
📢	Answering system answers calls with a greeting message and caller messages are not recorded. ("Caller's recording time", page 33)
🔋	Battery level
⏱	Alarm is on. (page 23)
🔽	Privacy mode is on. (page 21)
⊘	Ringer volume is off. (page 22)
✗	Blocked call[*1] (page 24, 27)
✉	New voice mail message received.[*2] (page 34)
Line in use	Someone is using a line.
IN USE	Answering system is being used by another handset or the base unit.

*1 Caller ID subscribers only
*2 Voice mail subscribers only

Soft key icons

Icon	Action
🔙	Returns to the previous screen or outside call.
🗐	Displays the menu.
OK	Accepts the current selection.
▣	Displays a previously dialled phone number.
☎	Makes a call. (page 14)
⊘	Temporarily turns off the ringer for incoming calls. (page 15)

Icon	Action
12/24	Sets 24-hour or 12-hour clock format. (page 13)
🔼	Places a call on hold. (page 35)
📖	Opens the phonebook.
📖	Allows you to edit phone numbers. (page 24, 27)
📖	Adds new entry. (page 16, 24)
🔍	Displays the character entry mode for phonebook search. (page 16)
🔒0	Turns the key lock feature off. (page 15)
1/A/?	Selects a character entry mode.
⬛	Stops recording or playback.
💾	Stores phone numbers. (page 24, 27)
P	Inserts a dialling pause.
✖	Erases the selected item or returns to the outside call.
📢	Allows you to make an intercom call. (page 35)
🔽	Establishes a conference call. (page 35)
C	Erases a number/character.
🔇	Puts the call on mute.

Turning the power on/off

Power on

Press 【✆🔆】 for about 1 second.

Power off

Press 【✆🔆】 for about 2 seconds.

Initial settings

Symbol meaning:
Example: 【▼】/【▲】: "Off"

Press 【▼】 or 【▲】 to select the words in quotations.

Display language

Important:
● When the language selection is displayed after installing the batteries for the first time, perform step 2.

1 📺 → 【#】【1】【1】【0】
2 【▼】/【▲】: Select your desired language. → OK → 【✆🔆】

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Date and time

1 🗐 → **[#][1][0][1]**

2 Enter the current date, month, and year. → **OK**
   Example: 15 July, 2010
   [1][5] [0][7] [1][0]

3 Enter the current hour and minute.
   Example: 9:30
   [0][9] [3][0]
   ● You can select 24-hour or 12-hour clock format (**"AM"** or **"PM"**) by pressing **12/24**.

4 **OK** → **[☎⏻]**

Note:
● To correct a digit, press **[◄]** or **[►]** to move the cursor to the digit, then make the correction.
● The date and time may be incorrect after a power failure. In this case, set the date and time again.

One touch eco mode

The **[ECO/R]** button on the handset enables you to activate the eco function with one touch.
By activating eco mode, your unit can reduce the base unit transmission power by up to 90% in standby mode.
You can turn on/off one touch eco mode by just pressing **[ECO/R]**. The default setting is **"Normal"**.

– When the one touch eco mode is on: **"Low"** is temporarily displayed and **ECO** is shown on the handset display instead of ᵞ.
– When the one touch eco mode is off: **"Normal"** is temporarily displayed and **ECO** goes off from the handset display.

Note:
● When there is another cordless phone nearby and it is in use, the base unit transmission power may not be reduced.
● Activating one touch eco mode reduces the range of the base unit in standby mode.
● If you set the repeater mode to **"On"** (page 25):
   – One touch eco mode is cancelled.
   – **"Eco Setup"** is not shown in the display menu (page 19).

Making calls

1 Lift the handset and dial the phone number.
- To correct a digit, press **C**.

2 Press 【➘】 or 【➘】.

3 When you finish talking, press 【✆】 or place the handset on the base unit or charger.

Using the speakerphone

1 Dial the phone number and press 【📢】.
- Speak alternately with the other party.

2 When you finish talking, press 【✆】.

Note:
- For best performance, use the speakerphone in a quiet environment.
- To switch back to the receiver, press 【➘】.

Adjusting the receiver or speaker volume

Press 【▲】 or 【▼】 repeatedly while talking.

Making a call using the redial list

The last 10 phone numbers dialled are stored in the redial list (each 24 digits max.).

1 ▣ or 【►】 (○●)

2 【▼】/【▲】: Select the desired phone number.

3 【➘】

Erasing a number in the redial list

1 ▣ or 【►】 (○●)

2 【▼】/【▲】: Select the desired phone number. → ✗

3 【▼】/【▲】: "Yes" → OK → 【✆】

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 17).

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

1 【0】 → P

2 Dial the phone number. → 【➘】

Note:
- A 3 second pause is inserted each time P is pressed. Repeat as needed to create longer pauses.

Answering calls

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

1 Lift the handset and press 【➘】 or 【📢】 when the unit rings.
- You can also answer the call by pressing any dial key from 【0】 to 【9】, 【*】, or 【#】. **(Any key answer feature)**

2 When you finish talking, press 【✆】 or place the handset on the base unit or charger.

Auto talk

You can answer calls simply by lifting the handset off the base unit or charger. You do not need to press 【➘】. To turn this feature on, see page 20.

Adjusting the handset ringer volume
Press 【▲】 or 【▼】 repeatedly to select the desired volume while the handset is ringing for an incoming call.
Note:
● You can also program the handset ringer volume beforehand (page 20).

Temporary handset ringer off
While the handset is ringing for a call, you can turn the ringer off temporarily by pressing 🔕.

Useful features during a call

Hold
This feature allows you to put an outside call on 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:
● If a call is kept on hold for more than 9 minutes, an alarm tone starts to sound and the ringer indicator flashes rapidly. After 1 additional minute on hold, the call is disconnected.
● If another phone is connected to the same line (page 9), you can also take the call by lifting its handset.

Mute
While mute is turned on, you can hear the other party, but the other party cannot hear you.
1 Press 🔇 during conversation.
● 🔇 flashes.

2 To return to the conversation, press 🔇 again.

Recall/flash
【ECO/R】 allows you to use the special features of your host PBX such as transferring an extension call, or accessing optional telephone services.
Note:
● To change the recall/flash time, see page 21.

Call share
You can join an existing outside call. To join the conversation, press 【➰】 when the other handset is on an outside call.
Note:
● To prevent other users from joining your conversations with outside callers, turn the privacy mode on (page 21).

Key lock

The handset can be locked so that no calls or settings can be made. Incoming calls can be answered, but all other functions are disabled while key lock is on.
To turn key lock on, press 📧 for about 3 seconds.
● 🔒0 is displayed.
● To turn key lock off, press 🔒0 for about 3 seconds.
Note:
● Calls to emergency numbers cannot be made until key lock is turned off.

Handset phonebook

The phonebook allows you to make calls without having to dial manually. You can add 100 names and phone numbers.

Adding entries

1 📖 → 📖

2 Enter the party's name (16 characters max.). → **OK**
   ● You can change the character entry mode by pressing 1/A/? (page 36).

3 Enter the party's phone number (24 digits max.). → **OK** 2 times
   ● To add other entries, repeat from step 2.

4 【✕⏻】

Finding and calling a phonebook entry

Scrolling through all entries

1 📖

2 【▼】/【▲】: Select the desired entry.
   ● You can scroll through the phonebook entry by pressing and holding 【▼】 or 【▲】.

3 【🔽】

Searching by first character

1 📖
   ● Change the character entry mode if necessary:
     🔍 → 【▼】/【▲】: Select the character entry mode. → **OK**

2 Press the dial key (【0】 to 【9】, or 【#】) which contains the character you are searching for (page 36).

● Press the same dial key repeatedly to display the first entry corresponding to each character located on that dial key.
● If there is no entry corresponding to the character you selected, the next entry is displayed.

3 【▼】/【▲】: Scroll through the phonebook if necessary.

4 【🔽】

Editing entries

1 Find the desired entry (page 16). → 🖼

2 【▼】/【▲】: "Edit" → **OK**

3 Edit the name if necessary (16 characters max.; page 36). → **OK**

4 Edit the phone number if necessary (24 digits max.). → **OK** 2 times → 【✕⏻】

Erasing entries

Erasing an entry

1 Find the desired entry (page 16).

2 ✕ → 【▼】/【▲】: "Yes" → **OK** → 【✕⏻】

Erasing all entries

1 📖 → 🖼

2 【▼】/【▲】: "Erase All" → **OK**

3 【▼】/【▲】: "Yes" → **OK**

4 【▼】/【▲】: "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 【▼】/【▲】: **"Phonebook"** → **OK**

3 【▼】/【▲】: Select the desired entry.

4 Press ☎ to dial the number.

Note:

● When storing a calling card access number and your PIN in the phonebook as one phonebook entry, press **P** to add pauses after the number and PIN as necessary (page 14).

Copying phonebook entries

You can copy phonebook entries between 2 handsets.[*1]

*1 Panasonic compatible handset

Copying an entry

1 Find the desired entry (page 16). → ▤

2 【▼】/【▲】: **"Copy"** → **OK**

3 【▼】/【▲】: Select the handset you want to send the phonebook entry to. → **OK**

● When an entry has been copied, **"Completed"** is displayed.

● To continue copying another entry: 【▼】/【▲】: **"Yes"** → **OK** → Find the desired entry. → **OK**

4 【✂⏻】

Copying all entries

1 ▥ → ▤

2 【▼】/【▲】: **"Copy All"** → **OK**

3 【▼】/【▲】: Select the handset you want to send the phonebook entry to. → **OK**

● When all entries have been copied, **"Completed"** is displayed.

4 【✂⏻】

Programmable settings

You can customise the unit by programming the following features using the handset.
To access the features, there are 2 methods:
– scrolling through the display menus (page 18)
– using the direct commands (page 20)
● Direct command is the main method used in these operating instructions.

Programming by scrolling through the display menus

1 ▤
2 Press **[▼]** or **[▲]** to select the desired main menu. ⟶ **OK**
3 Press **[▼]** or **[▲]** to select the desired item in sub-menu 1. ⟶ **OK**
● In some cases, you may need to select from sub-menu 2. ⟶ **OK**
4 Press **[▼]** or **[▲]** to select the desired setting. ⟶ **OK**
● This step may vary depending on the feature being programmed.
● To exit the operation, press **[☎⏻]**.

Note:
● See page 20 for the default settings.

Main menu	Sub-menu 1	Sub-menu 2	Page
Caller List ⤵	–	–	27
Answer System ▣	Play New Msg.	–	30
	Play All Msg.	–	30
	Erase All Msg.[*1]	–	31
	Greeting	Start REC[*1]	29
		Play Greeting	29
		Default[*1]	29
	Settings	Number of Rings[*1]	32
		Recording Time[*1]	33
		Remote Code[*1]	31
		Call Screening	28
	Answer On[*1]	–	28
	Answer Off[*1]	–	28
Time Settings ◷	Set Date/Time[*1]	–	13
	Alarm	–	23
	Time Adjustment[*1]	–	–
Intercom ◖)))	–	–	35

Main menu	Sub-menu 1	Sub-menu 2	Page
Ringer Setup ♪	Ringer Volume	Handset	–
		Base Unit[*1]	–
	Ringtone	–	–
Initial Setup	Ringer Setup	Ringer Volume	–
		Ringtone	–
	Time Settings	Set Date/Time[*1]	13
		Alarm	23
		Time Adjustment[*1]	–
	Handset Name	–	23
	Caller Barred[*1]	–	23
	Eco Setup	Transmission Power[*1]	13
	Display Setup	LCD & Key Backlight	–
		Contrast	–
	Keytones	–	–
	Area Code[*1]	–	23
	Auto Talk	–	14
	Line Setup	Recall/Flash[*1]	15
	Privacy Mode[*1]	–	–
	Base Unit PIN[*1]	–	24
	Repeater Mode[*1]	–	25
	Register	Register H.set	25
	Language	Display	12

*1 If you program these settings using one of the handsets, you do not need to program the same item using another handset.

Programming using the direct commands

1 🖿 → 【#】

2 Enter the desired code.

3 Select the desired setting. → OK
- This step may vary depending on the feature being programmed.
- To exit the operation, press 【✆】.

Note:
- In the following table, < > indicates the default settings.

Feature	Code	Setting	System[*1]	Page
`Caller List`	【2】【1】【3】	–	–	27
`Set Date/Time`	【1】【0】【1】	–	●	13
`Alarm`	【7】【2】【0】	【1】: `Once` 【2】: `Daily` 【0】: `<Off>`	–	23
`Time Adjustment`[*2]	【2】【2】【6】	【1】: `<Caller ID>` 【0】: `Manual`	●	–
`Intercom`	【2】【7】【4】	–	–	35
`Ringer Volume`[*3] (Handset)	【1】【6】【0】	【1】–【6】: Level 1–6 <6> 【0】: Off	–	–
`Ringer Volume` (Base unit)	【✳】【1】 【6】【0】	【1】–【6】: Level 1–6 <3> 【0】: Off	●	–
`Ringtone`[*4, *5] (Handset)	【1】【6】【1】	`<Ringtone 1>`	–	–
`Handset Name`	【1】【0】【4】	–	–	23
`Caller Barred`	【2】【1】【7】	–	●	23
`Transmission Power`	【7】【2】【5】	【1】: `<Normal>` 【2】: `Low`	●	13
`LCD & Key Backlight`	【2】【7】【6】	【1】: `<On>` 【0】: `Off`	–	–
`Contrast` (Display contrast)	【1】【4】【5】	【1】–【6】: Level 1–6 <3>	–	–
`Keytones`[*6]	【1】【6】【5】	【1】: `<On>` 【0】: `Off`	–	–
`Area Code`	【2】【5】【5】	–	●	23
`Auto Talk`[*7]	【2】【0】【0】	【1】: `On` 【0】: `<Off>`	–	14

Feature	Code	Setting	System[*1]	Page
Recall/Flash[*8]	[1][2][1]	[0]: 900 msec. [1]: 700 msec. [2]: 600 msec. [3]: 400 msec. [4]: 300 msec. [5]: 250 msec. [✳]: 200 msec. [#]: 160 msec. [6]: 110 msec. [7]: <100 msec.> [8]: 90 msec. [9]: 80 msec.	●	15
Privacy Mode[*9]	[1][9][4]	[1]: On [0]: <Off>	●	–
Base Unit PIN	[1][3][2]	<0000>	●	24
Repeater Mode	[1][3][8]	[1]: On [0]: <Off>	●	25
Register H.set	[1][3][0]	–	–	25
Cancel Register	[1][3][1]	–	–	25
Display (Change language)	[1][1][0]	<English>	–	12

For the answering system

Feature	Code	Setting	System[*1]	Page
Play New Msg.	[3][2][3]	–	–	30
Play All Msg.	[3][2][4]	–	–	30
Erase All Msg.	[3][2][5]	–	●	31
Start REC (Record greeting)	[3][0][2]	–	●	29
Play Greeting	[3][0][3]	–	–	29
Default (Reset to pre-recorded greeting)	[3][0][4]	–	●	29
Number of Rings	[2][1][1]	<4 Rings>	●	32
Recording Time	[3][0][5]	<3 Minutes>	●	33
Remote Code	[3][0][6]	–	●	31
Call Screening	[3][1][0]	<On>	–	28
Answer On	[3][2][7]	–	●	28
Answer Off	[3][2][8]	–	●	28

Programming

*1 If "System" column is checked, you do not need to program the same item using another handset.

*2 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 13).

*3 When the ringer volume is turned off, ✗ is displayed and the handset does not ring for outside calls.
However even when the ringer volume is set to off, the handset still rings for alarm (page 23), intercom calls (page 35), and paging (page 35).

*4 If you select one of the melody ringer tones, the ringer tone continues to play for several seconds even if the caller has already hung up. You may either hear a dial tone or no one on the line when you answer the call.

*5 The preset melodies in this product are used with permission of © 2007 Copyrights Vision Inc.

*6 Turn this feature off if you prefer not to hear key tones while you are dialling or pressing any keys, including confirmation tones and error tones.

*7 If you subscribe to a Caller ID service and want to view the caller's information after lifting up the handset to answer a call, turn off this feature.

*8 The recall/flash time depends on your telephone exchange or host PBX. Contact your PBX supplier if necessary.
You can access your service provider/telephone company "call waiting" service by having the recall/flash time set at **"100 msec."**, and then follow your service provider/telephone company "call waiting" instructions to operate this service.

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

Special programming

Alarm

An alarm sounds at the set time for 3 minutes once or daily. Alarm can be set for each handset.

Important:

● Set the date and time beforehand (page 13).

1 📧 → **[#][7][2][0]**

2 **[▾]/[▴]**: Select the desired alarm option. → **OK**

"**Off**"
Turns alarm off. Go to step 6.

"**Once**"
An alarm sounds once at the set time.

"**Daily**"
An alarm sounds daily at the set time. Go to step 4.

3 Enter the desired date and month. → **OK**

4 Set the desired time. → **OK**

5 **[▾]/[▴]**: Select the desired alarm tone. → **OK**

● We recommend selecting a different ringer tone from the one used for outside calls.

6 **OK** → **[✕⏻]**

● When the alarm is set, ⏰ is displayed.

Note:

● To stop the alarm, press any dial key or place the handset on the base unit or charger.

● When the handset is in use, the alarm will not sound until the handset is in standby mode.

Changing the handset name

Each handset can be given a customised name ("Bob", "Kitchen", etc.). This is useful when you make intercom calls between handsets. You can also select whether or not the handset name is displayed in standby mode. The default setting is "**Off**". If you select "**On**" without entering any handset name, "**Handset 1**" to "**Handset 6**" is displayed.

1 📧 → **[#][1][0][4]**

2 Enter the desired name (max. 10 characters; page 36).

● If not required, go to step 3.

3 **OK**

4 **[▾]/[▴]**: Select the desired setting. → **OK** 2 times

5 **[✕⏻]**

Storing an area code to be deleted automatically

In some situations, phone numbers stored automatically in the caller list (page 27) 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 📧 → **[#][2][5][5]**

2 Enter an area code (5 digits max.). → **OK** → **[✕⏻]**

Incoming call barring (Caller ID subscribers only)

This feature allows the unit to reject calls from specified phone numbers that you do not want to answer such as junk calls.

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Programming

When a call is received, the unit does not ring while the caller is being identified. If the phone number matches an entry in the call barred list, the unit sends out a busy tone to the caller, and then disconnects the call.

Important:
● When the unit receives a call from a number that is stored in the call barred list, the call is logged in the caller list (page 27) with ᕁ after the call is disconnected.

Storing unwanted callers

You can store up to 30 phone numbers in the call barred list by using the caller list or by entering the numbers directly.

Important:
● You must store the phone number with an area code in the call barred list.

■ **From the caller list:**
1 【◄】 (➔)
2 【▼】/【▲】: Select the entry to be barred. → 🖾
3 【▼】/【▲】: "Caller Barred" → **OK**
4 【▼】/【▲】: "Yes" → **OK** → 【✆⏻】

■ **By entering phone numbers:**
1 📖 → 【#】【2】【1】【7】 → 🖾
2 Enter the phone number (24 digits max.). → **OK**
   ● To erase a digit, press **C**.
3 【✆⏻】

Viewing/editing/erasing bar call numbers

1 📖 → 【#】【2】【1】【7】
2 【▼】/【▲】: Select the desired entry.
   ● To exit, press 【✆⏻】.

3 **To edit a number:**
   🖾 → Edit the phone number. → **OK** → 【✆⏻】
   To erase a number:
   ✕ → 【▼】/【▲】: "Yes" → **OK** → 【✆⏻】

Note:
● When editing, press the desired dial key to add, **C** to erase.

Changing the base unit PIN (Personal Identification Number)

Important:
● If you change the PIN, 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 📖 → 【#】【1】【3】【2】
2 Enter the current 4-digit base unit PIN (default: "0000").
3 Enter the new 4-digit base unit PIN. → **OK** → 【✆⏻】

Registering a unit

Operating additional units

Additional handsets

Up to 6 handsets can be registered to the base unit.

Important:
● The additional handset model recommended for use with this unit is noted on page 4. If another handset model is used, certain operations (handset settings, base unit settings, etc.) may not be available.

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Registering a handset to the base unit

The supplied handset and base unit are pre-registered. If for some reason the handset is not registered to the base unit (for example, ⲯ is displayed even when the handset is near the base unit), re-register the handset.

1 Handset:
   ▤ → [#][1][3][0]

2 Base unit:
   Press and hold 【•))】 for about 5 seconds, until the registration tone sounds.
   ● If all registered handsets start ringing, press the same button to stop. Then repeat this step.
   ● The next step must be completed within 90 seconds.

3 Handset:
   Wait until **"Base PIN"** is displayed. → Enter the base unit PIN (default: **"0000"**). → **OK**
   ● If you forget your PIN, contact an authorised service centre.
   ● When the handset has been registered successfully, ⲯ is displayed.

Note:
● While registering, **"Base in registering"** is displayed on all registered handsets.
● When you purchase an additional handset, refer to the additional handset's installation manual for registration.

Deregistering a handset

A handset can cancel its own registration (or the registration of another handset) that is stored to the base unit. This allows the handset to end its wireless connection with the system.

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**
   ● A confirmation tone sounds.
   ● The handset does not beep when cancelling its own registration.

4 【⚹⏻】

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 4. Contact your Panasonic dealer for details.

Important:
● Before registering the repeater to this base unit, you must turn the repeater mode on.
● Do not use more than one repeater at a time.

Setting the repeater mode

1 ▤ → [#][1][3][8]

2 【▼】/【▲】: Select the desired setting. → **OK** → 【⚹⏻】

Note:
● After turning the repeater mode on or off, ⲯ is displayed on the handset momentarily. This is normal and the handset can be used once ⲯ is displayed.

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Using Caller ID service

Important:

● This unit is Caller ID compatible. To use Caller ID features (such as displaying caller phone numbers), you must subscribe to a Caller ID service. Contact your service provider/telephone company for details.

Caller ID features

When an outside call is being received, the caller's phone number 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.

Missed calls

If a call is not answered, the unit treats it as a missed call and ➔ is displayed. This lets you know if you should view the caller list to see who called while you were away.

Even if only one missed call in the caller list is viewed (page 27), ➔ disappears from the display. When you receive another new call, ➔ is displayed again.

Note:

● Even when there are unviewed missed calls, ➔ disappears from the standby display if the following

operation is performed by one of the registered handsets:
  – Being replaced on the base unit or charger.
  – Pressing **{✆⏻}**.

Phonebook name display

When caller information is received and it matches a phone number stored in the phonebook, the stored name in the phonebook is displayed and logged in the caller list.

Call waiting and Caller ID compatible

If you subscribe to Caller ID service, your handset displays the 2nd caller's information while talking. After you hear a call waiting tone, the caller's phone number will be displayed.

You can answer the 2nd call, keeping the 1st call on hold. Follow your service provider/telephone company instructions using **{ECO/R}**. (Recall/flash function)

● If the phone number is stored in the phonebook with its name, the caller's name will also be displayed.
● Please contact your service provider/telephone company for details and availability in your area.

For Caller ID Type II users

When you receive a 2nd call during a conversation, you will hear a signal tone following the call waiting tone and the **conversation will be interrupted or muted for a short period of time.** This is not a fault of the product as these events are normal.

● The tones are generated by your service provider/telephone company.

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Caller list

Important:

- Only 1 person can access the caller list at a time.
- Make sure the unit's date and time setting is correct (page 13).

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.

- If ▶ is displayed, not all of the information is shown. To see the remaining information, press 【►】. To return to the previous screen, press 【◄】.

3 To call back, press 【➚】. To exit, press 【✂⏻】.

Note:

- If the entry has already been viewed or answered, "✓" is displayed, even if it was viewed or answered using another handset.
- If the call matches an entry in the call barred list, the number is logged with ✂⏶ (page 23).
- 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 23).

Editing a caller's phone number before calling back

1 【◄】 (➔)

2 【▼】/【▲】: Select the desired entry.

- If ▶ is displayed, not all of the information is shown. To see the remaining information, press 【►】. To return to the previous screen, press 【◄】.

3 ▨ ➔ Edit the number.

- Press dial key (【0】 to 【9】) to add, C to delete.

4 【➚】

Erasing selected caller information

1 【◄】 (➔)

2 【▼】/【▲】: Select the desired entry.

3 ✕ ➔ 【▼】/【▲】: "Yes" ➔ OK ➔ 【✂⏻】

Erasing all caller information

1 【◄】 (➔)

2 ✕ ➔ 【▼】/【▲】: "Yes" ➔ OK ➔ 【✂⏻】

Storing caller information to the phonebook

1 【◄】 (➔)

2 【▼】/【▲】: Select the desired entry. ➔ ▣

3 【▼】/【▲】: "Phonebook" ➔ OK

4 To store the name, continue from step 2, "Adding entries", page 16.

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Answering System

Answering system

The answering system can answer and record calls for you when you are unavailable to answer the phone. You can also set the unit to play a greeting message but not to record caller messages by selecting **"Greeting Only"** as the recording time setting (page 33).

Important:

- Only 1 person can access the answering system (listen to messages, record a greeting message, etc.) 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 correctly (page 13).

Memory capacity (including your greeting message)

The total recording capacity is about 20 minutes. A maximum of 64 messages can be recorded.

Note:

- If message memory becomes full:
  – **"Messages Full"** is shown on the handset display.
  – The answer on indicator on the base unit flashes rapidly when the answering system is turned on.
- When the message memory becomes full:
  – If you use the pre-recorded greeting message, the unit automatically switches to another pre-recorded greeting message asking callers to call again later.
  – If you recorded your own greeting message, the same message is still

announced to callers even though their messages are not recorded.

Turning the answering system on/off

The answering system is preset to on.

Base unit

Press 【📼】 to turn on/off the answering system.

- When the answering system is turned on, the answer on indicator lights up.

Handset

1 To turn on:
📧 → [#][3][2][7]
To turn off:
📧 → [#][3][2][8]

2 【✆⏻】

Note:

- When the answering system is turned on, 📼 is displayed next to the battery icon.

Call screening

While a caller is leaving a message, you can listen to the call through the handset's speaker. To adjust the speaker volume, press 【▲】 or 【▼】 repeatedly. You can answer the call by pressing 【✆】 on the handset. Call screening can be set for each handset. The default setting is **"On"**.

1 📧 → [#][3][1][0]

2 【▼】/【▲】: Select the desired setting.
→ OK → 【✆⏻】

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Greeting message

When the unit answers a call, a greeting message is played to callers.
You can use either:
– your own greeting message
– pre-recorded greeting message

Recording your greeting message

1 [▤] → [#][3][0][2]
2 [▼]/[▲]: "Yes" → OK
3 After a beep sounds, hold the handset about 20 cm away and speak clearly into the microphone (2 minutes and 30 seconds max.).
4 Press [■] to stop recording.
5 [☎⏻]

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 33) 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

If you want to use a pre-recorded greeting message once you record your own greeting message, you need to erase your own greeting message.

1 [▤] → [#][3][0][4]

2 OK → [☎⏻]

Playing back the greeting message

1 [▤] → [#][3][0][3]
2 [☎⏻]

Listening to messages using the base unit

When new messages have been recorded, [►] on the base unit flashes. Press [►].
● If new messages have been recorded, the base unit plays back new messages.
● If there are no new messages, the base unit plays back all messages.

Note:
● When the answer on indicator on the base unit flashes rapidly, the message memory is full ("Memory capacity (including your greeting message)", page 28).

Operating the answering system during playback

Key	Operation
[▲] or [▼]	Adjust the speaker volume
[◄◄]	Repeat message[*1]
[►►]	Skip message
[■]	Stop playback
[✕]	Erase currently playing message

*1 If pressed within the first 5 seconds of a message, the previous message is played.

Erasing all messages

Press {×} 2 times while the unit is not in use.

Listening to messages using the handset

When new messages have been recorded, ▭ is displayed on the handset with the total number of new messages.

1 **To listen to new messages:**
▤ → {#}{3}{2}{3}
To listen to all messages:
▤ → {#}{3}{2}{4}

2 When finished, press {✆}.

Note:

● To switch to the receiver, press {➘}.
● If **"Messages Full"** is shown on the display, ▭ and the total number of new messages are not displayed.

Operating the answering system

▤ → {▾}/{▴}: **"Answer System"** → **OK**

Key	Operation
{▴} or {▾}	Adjust the receiver or speaker volume (during playback)
{1} or {◄}	Repeat message (during playback)[*1]
{2} or {►}	Skip message (during playback)
{3}	Enter the **"Settings"** menu
{4}	Play new messages
{5}	Play all messages

Key	Operation
{6}	Play greeting message
{7}{6}	Record greeting message
{8}	Turn answering system on
▤	Pause message[*2]
{9} or ▬	Stop recording Stop playback
{0}	Turn answering system off
{✶}{4}[*3]	Erase currently playing message
{✶}{5}	Erase all messages
{✶}{6}	Reset to a pre-recorded greeting message

*1 If pressed within the first 5 seconds of a message, the previous message is played.
*2 To resume playback:
{▾}/{▴}: **"Play"** → **OK**
*3 You can also erase as follows:
▣ → {▾}/{▴}: **"Yes"** → **OK**

Calling back (Caller ID subscribers only)

If caller information is received for the call, you can call the caller back while listening to a message.

1 Press ▤ during playback.

2 {▾}/{▴}: **"Call Back"** → **OK**

Editing the number before calling back

1 Press ▤ during playback.

2 {▾}/{▴}: **"Edit & Call"** → **OK**

3 Edit the number. → {➘}

Erasing all messages

1 ▤ → 【#】【3】【2】【5】

2 【▼】/【▲】: "Yes" → **OK** → 【✆⏻】

Remote operation

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

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 To turn on remote operation, enter the desired 3-digit remote access code.

3 **OK** → 【✆⏻】

Deactivating remote operation

Press 【✳】 in step 2 on "Remote access code", page 31.

● The entered remote access code is deleted.

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.

● The unit announces the number of new messages.

3 Follow the voice guidance prompts as necessary or control the unit using remote commands (page 31).

4 When finished, hang up.

Note:

● You can also leave a message just as any outside caller can. After the greeting message starts, press 【✳】 to skip the greeting message and record your message after the beep.

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

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

Key	Operation
【1】	Repeat message (during playback)[*1]
【2】	Skip message (during playback)
【4】	Play new messages
【5】	Play all messages
【6】	Play greeting message
【7】	Record greeting message
【9】	Stop recording Stop playback

Answering System

Key	Operation
【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)

*1 If pressed within the first 5 seconds of a message, the previous message is played.

Turning on the answering system remotely

If the answering system is off, you can turn it on 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 31).

Answering system settings

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 7 rings, or **"Auto"**.
The default setting is **"4 Rings"**.
"Auto": The unit's answering system answers at the end of the 2nd ring when new messages have been recorded, or at the end of the 5th ring when there are no new messages. If you call your phone from outside to listen to new messages (page 31), you know that there are no new messages when the phone rings for the 3rd time. You can then hang up without being charged for the call.

1 ▤ → 【#】【2】【1】【1】

2 【▼】/【▲】: Select the desired setting.
→ OK → 【☎⏻】

For service provider voice mail subscribers

To receive voice mail and use the answering system properly, please note the following:
● "Voice mail" is a service provided by your service provider/telephone company (page 34). You will need to first subscribe or activate this service through your service provider/ telephone company. Contact your service provider/telephone company on how to operate this service and how you will be notified that you have messages on your voice mail.
To use this service you will be required to leave your answering machine off on your unit.

This will allow the voice mail to receive any messages.

● To use the unit's answering machine rather than the voice mail service provided by your service provider/telephone company, please contact your service provider/telephone company to have it removed or deactivated permanently or temporarily.

Alternatively you can leave this service connected and change the **"Number of Rings"** to a shorter duration on your unit so your unit's answering machine can pick up the call prior to the voice mail provided by your service provider/telephone company.

Caller's recording time

You can change the maximum message recording time allowed for each caller. The default setting is **"3 Minutes"**.

1 📠 → **[#][3][0][5]**

2 **[▼]/[▲]**: Select the desired setting. → 🆗 → **[📵]**

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 33.

Note:

● When you select **"Greeting Only"**:
  – If you do not record your own message, the unit will play the pre-recorded greeting-only message asking callers to call again later.
  – If you use your own message, record the greeting-only message asking callers to call again later (page 29).

Voice mail service

Voice mail is an automatic answering service offered by your service provider/ telephone company. After you subscribe to this service, your service provider/ telephone company's voice mail system answers calls for you when you are unavailable to answer the phone or when your line is busy. Messages are recorded by your service provider/ telephone company, not your telephone. When you have new messages, ⊠ is displayed on the handset if message indication service is available. Please contact your service provider/telephone company 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 **{#}** for 2 seconds.

● To use the voice mail service provided by your service provider/telephone company rather than the unit's answering system, turn off the answering system (page 28). For details, see page 32.

Intercom

Intercom calls can be made between handsets.

Note:

● If you receive an outside call while talking on the intercom, you hear 2 tones. To answer the call, press 【✆⏻】, then press 【�'].

● When paging the handset, the paged handset beeps for 1 minute.

Making an intercom call

1 📖 → 📢
2 【▼】/【▲】: Select the desired unit. → **OK**
   ● To stop paging, press 【✆⏻】.
3 When you finish talking, press 【✆⏻】.

Answering an intercom call

1 Press 【➋】 to answer the page.
2 When you finish talking, press 【✆⏻】.

Handset locator

You can locate a misplaced handset by pressing 【•)】 on the base unit.

● All registered handsets beep for 1 minute.

To stop paging, press it again or 【✆⏻】 on the handset.

Transferring calls, conference calls

Outside calls can be transferred or a conference call with an outside party can be made between 2 handsets.

1 During an outside call, press 📢 to put the call on hold.
2 【▼】/【▲】: Select the desired unit. → **OK**
3 Wait for the paged party to answer.
   ● If the paged party does not answer, press 🔙 to return to the outside call.
4 **To complete the transfer:**
   Press 【✆⏻】.
   ● The outside call is being routed to the destination unit.

   To establish a conference call:
   Press 🔽.
   ● To leave the conference, press 【✆⏻】. The other 2 parties can continue the conversation.
   ● To put the outside call on hold, press 🔼. To resume the conference, press 🔽.

Note:

● If you want to return to the outside call after the paged party answers, press ✖.

Answering a transferred call

Press 【➋】 to answer the page.

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 36).

– 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.
– To enter another character located on the same dial key, press **【►】** to move the cursor to the next space, then press the appropriate dial key.
– If you do not press any dial key within 5 seconds after entering a character, the character is fixed and the cursor moves to the next space.

Character entry modes

The available character entry modes are Alphabet (ABC), Numeric (0-9), Greek (ΑΒΓ), Extended 1 (AÄÅ), Extended 2 (SŚŠ), and Cyrillic (АБВ). When in these entry modes except Numeric, you can select which character is entered by pressing a dial key repeatedly.

When the unit displays the character entry screen:

1/A/? → **【▼】/【▲】**: Select a character entry mode. → **OK**

Note:

● ␣ in the following tables represents a single space.

Alphabet character table (ABC)

(0 ␣)	(1 &'()	(2 ABC)	(3 DEF)	(4 GHI)	(5 JKL)	(6 MNO)	(7 PQRS)	(8 TUV)	(9 WXYZ)	(#)
␣ 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 ABC)	(3 DEF)	(4 GHI)	(5 JKL)	(6 MNO)	(7 PQRS)	(8 TUV)	(9 WXYZ)	(#)
0	1	2	3	4	5	6	7	8	9	#

Greek character table (ΑΒΓ)

(0 ␣)	(1 &'()	(2 ABC)	(3 DEF)	(4 GHI)	(5 JKL)	(6 MNO)	(7 PQRS)	(8 TUV)	(9 WXYZ)	(#)
␣ 0	␣ & ' ( ) ✳ , - . / 1	Α Β Γ 2	Δ Ε Ζ 3	Η Θ Ι 4	Κ Λ Μ 5	Ν Ξ Ο 6	Π Ρ Σ 7	Τ Υ Φ 8	Χ Ψ Ω 9	#

Useful Information

Extended 1 character table (AÄÅ)

0 ␣	1 &'(	2 ABC	3 DEF	4 GHI	5 JKL	6 MNO	7 PQRS	8 TUV	9 WXYZ	#
␣ 0	␣ & ' ( ) ∗ , - . / 1	A À Á Â Ã Ä Å Æ B C Ç 2	D E È É Ê Ë Ē F 3	G Ğ H I Í Î Ï Ĩ Ì Ǐ 4	J K L 5	M N Ñ O Ò Ó Ô Õ Ö ø 6	P Q R S Ş ß 7	T U Ù Ú Û Ü Ũ V 8	W Ŵ X Y ŷ Z 9	#
		a à á â ã ä å æ b c ç 2	d e è é ê ë ē f 3	g ğ h i ì í î ï ĩ ı ǐ 4	j k l 5	m n ñ o ò ó ô õ ö ø 6	p q r s ş ß 7	t u ù ú û ü ũ v 8	w Ŵ x y ŷ z 9	

● The following are used for both uppercase and lowercase: ø Ŵ ŷ

Extended 2 character table (SŚŠ)

0 ␣	1 &'(	2 ABC	3 DEF	4 GHI	5 JKL	6 MNO	7 PQRS	8 TUV	9 WXYZ	#
␣ 0	␣ & ' ( ) ∗ , - . / 1	A Á Ä Ą B C Ċ Č 2	D Ď E É Ę Ě F 3	G H I Í 4	J K L Ł Ĺ Ľ 5	M N Ń Ň O Ó Ö Ő 6	P Q R Ŕ Ř S Ś Š 7	T Ť U Ú Ü Ű ů V 8	W X Y ỳ Ý Z Ź Ż Ž 9	#
		a á ä ą b c ċ č 2	d ď e é ę ě f 3	g h i í 4	j k l ł ĺ ľ 5	m n ń ň o ó ö ő 6	p q r ŕ ř s ś š 7	t ť u ú ü ű ů v 8	w x y ỳ ý z ź ż ž 9	

● The following are used for both uppercase and lowercase:

Ą Ć Č Ę Ł Ĺ Ľ Ń Ŕ Ś Š ů ý Ź Ż Ž

Cyrillic character table (АБВ)

0 ␣	1 &'(	2 ABC	3 DEF	4 GHI	5 JKL	6 MNO	7 PQRS	8 TUV	9 WXYZ	#
␣ 0 Ґ Є І Ї ў	␣ & ' ( ) ∗ , - . / 1	А Б В Г 2	Д Е Ж З 3	И Й К Л 4	М Н О П 5	Р С Т У 6	Ф Х Ц Ч 7	Ш Щ Ъ Ы 8	Ь Э Ю Я 9	#

Useful Information

Error messages

If the unit detects a problem, one of the following messages is shown on the display.

Display message	Cause/solution
`Check Phone Line`	● The supplied telephone line cord has not been connected yet or not connected properly. Check the connections (page 8).
`Error`	● Recording was too short. Try again.
`Failed`	● Phonebook copy failed (page 17). Confirm the other handset (the receiver) is in standby mode and try again.
`Incomplete`	● The receiver's phonebook memory is full. Erase the unnecessary phonebook entries from the other handset (the receiver) and try again.
`Memory Full`	● The phonebook memory is full. Erase unnecessary entries (page 16). ● Message memory is full. Erase unnecessary messages (page 29, 30). ● The call barred list memory is full. Erase unnecessary entries (page 24).

`Base no power`
or
`No link.`
`Reconnect AC`
`adaptor.`
	● 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 25).

`Use rechargeable` `battery.`	● A wrong type of battery such as Alkaline or Manganese was inserted. Use only the rechargeable Ni-MH batteries noted on page 4, 6.

`You must first`
`subscribe to`
`Caller ID.`
	● You must subscribe to a Caller ID service. Once you receive caller information after subscribing to a Caller ID service, this message will not be displayed.

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.	● Place the handset on the base unit or charger to turn on the handset.
The unit does not work.	● Make sure the batteries are installed correctly (page 8). ● Fully charge the batteries (page 8). ● 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 (page 25).
I cannot hear a dial tone.	● 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. ● Disconnect the base unit from the telephone line and connect the line to 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 service provider/telephone company.

Programmable settings

Problem	Cause/solution
The display is in a language I cannot read.	● Change the display language (page 12).
While programming, the display returns to standby mode.	● A call matching an entry in the call barred list is being received. Wait and try again later.

Useful Information

Problem	Cause/solution
I cannot activate the eco mode.	● You cannot set eco mode when you set the repeater mode **"On"**. If required, set the repeater mode to **"Off"** (page 25).
I cannot register a handset to a base unit.	● The maximum number of handsets (6) is already registered to the base unit. Cancel unused handset registrations from the base unit (page 25). ● You entered the wrong PIN. If you forget your PIN, contact an authorised service centre.

Battery recharge

Problem	Cause/solution
The handset beeps and/or ☐ flashes.	● Battery charge is low. Fully charge the batteries (page 8).
I fully charged the batteries, but – ☐ still flashes or – the operating time seems to be shorter.	● 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).
The handset display is blank.	● The handset is not turned on. Turn the power on (page 12).

Making/answering calls, intercom

Problem	Cause/solution
☒ is displayed.	● 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 25). ● Activating one touch eco mode reduces the range of the base unit in standby mode. If required, turn eco mode off (page 13).

Problem	Cause/solution
Noise is heard, sound cuts in and out.	● 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 filter (contact your DSL/ADSL service provider) to the telephone line between the base unit and the telephone line socket. Contact your DSL/ADSL provider for details. ● 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.
Sound quality seems to be getting worse.	● You have registered a handset that is not recommended (page 4). The clearest sound quality is only possible by registering the recommended handset.
The handset does not ring.	● The ringer volume is turned off. Adjust ringer volume (page 20).
The base unit does not ring.	● The ringer volume is turned off. Adjust ringer volume (page 20).
I cannot make a call.	● The handset is too far from the base unit. Move closer and try again. ● Another unit is in use. Wait and try again later. ● Answering system is being used. Wait and try again later. ● The key lock feature is turned on. Turn it off (page 15). ● The unit is not designed to be used with rotary/pulse dialling services.

Useful Information

Caller ID

Problem	Cause/solution
Caller information is not displayed.	● You must subscribe to a Caller ID service. Contact your service provider/telephone company for details. ● If your unit is connected to any additional telephone equipment, remove and plug the unit directly into the wall socket. ● If you use a DSL/ADSL service, we recommend connecting a filter (contact your DSL/ADSL service provider) to the telephone line between the base unit and the telephone line socket. Contact your DSL/ADSL provider for details. ● Other telephone equipment may be interfering with this unit. Disconnect the other equipment and try again.
Caller information is slow to display.	● Depending on your service provider/telephone company, the unit may display the caller's information at the 2nd ring or later. ● Move closer to the base unit.
Time on the unit has shifted.	● Incorrect time information from incoming Caller ID changes the time. Set the time adjustment to **"Manual"** (off) (page 20).
The name stored in the phonebook is not fully displayed while an outside call is being received.	● Edit the phonebook entry name to fit in 1 line of text (page 16).

Answering system

Problem	Cause/solution
The unit does not record new messages.	• The answering system is turned off. Turn it on (page 28). • The message memory is full. Erase unnecessary messages (page 29). • The recording time is set to **"Greeting Only"**. Change the setting (page 33). • If your own greeting message is not recorded properly, callers are unable to leave a message. Record your own greeting message again (page 29). • If you subscribe to a voice mail service, messages are recorded by your service provider/telephone company, not your telephone. Change the unit's number of rings setting or contact your service provider/telephone company (page 32).
My own greeting message cannot be properly heard.	• Record your own greeting message again (page 29).
I cannot operate the answering system.	• Someone is using the unit. Wait for the other user to finish. • A caller is leaving a message. Wait for the caller to finish. • The handset is too far from the base unit. Move closer.
I cannot operate the answering system remotely.	• The remote access code is not set. Set the remote access code (page 31). • You are entering the wrong remote access code. If you have forgotten your remote access code, enter the remote access code setting to check your current code (page 31). • Press each key firmly. • The answering system is turned off. Turn it on (page 32).

Useful Information

Liquid damage

Problem	Cause/solution
Liquid or other form of moisture has entered the handset/base unit.	● 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.

Wall mounting

Note:
● Make sure that the wall is strong enough to support the weight of the unit.
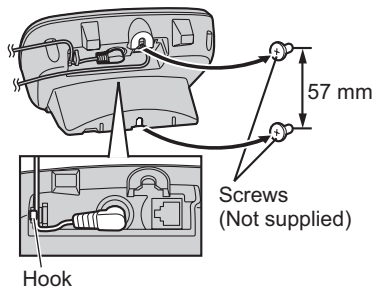
■ **Base unit**   ■ **Charger**
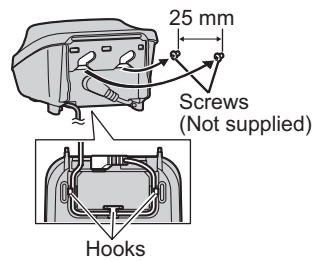
Wall mounting template

■ **Base unit**   ■ **Charger**
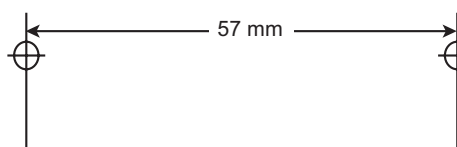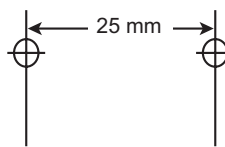
Instructions to customer

Installation

Install this telephone yourself by simply plugging it into the line socket for any regular telephone. You may connect it in place of your existing telephone or to any spare telephone socket installed in your premises.

To disconnect your existing telephone you must first remove its plug from the line socket. You can then insert the plug of this telephone into the socket and use your equipment.

If the plug of your existing telephone cannot be readily removed, you will have to remove the screw securing it. To do this proceed as follows:

1 Loosen screw "A" sufficiently to remove the socket cover. (See Fig. 1.)

2 Remove screw "B" and withdraw the plug. (See Fig. 2.)

3 Replace screw "B". (See Fig. 3.) Ensure that it screws completely into the socket recess. (If the screw is too long, increase the hole depth or replace the screw with one 5 mm shorter.)

4 Replace the socket cover and tighten screw "A". (See Fig. 4.)

SOCKET PLUG

SCREW "A"

Fig. 1

TELEPHONE CORD
(Connect to the PLUG as shown in Fig. 1.)

SCREW "B"

Fig. 2

SCREW "B"

Fig. 3

SCREW "A"

SOCKET

Fig. 4
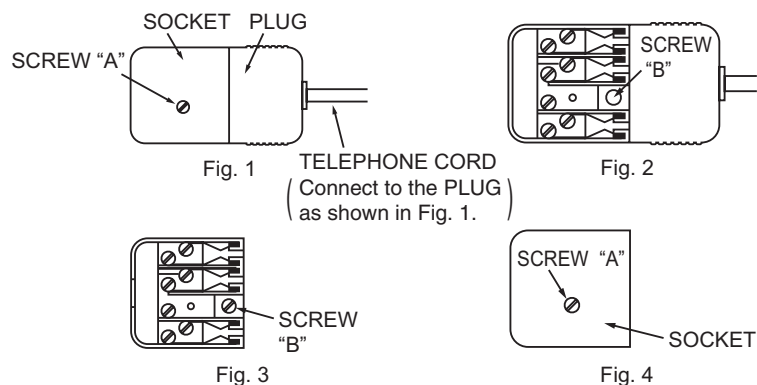
If you are satisfied with the operation of your telephone service after plugging in your cordless telephone, your installation is completed.

You will be unable to connect this cordless telephone if your telephone service consists only of a wall phone or an old style telephone which is not connected by means of a modern plug and socket. In such cases a new socket will need to be installed.
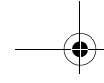
Useful Information

Should the cordless telephone not operate when plugged into a socket, it is either faulty or unsuitable for operation with your telephone service. It should be returned to the store where purchased or to an Authorised Service Centre.
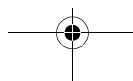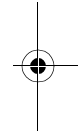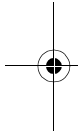
Service difficulties
If at any time a fault occurs on your telephone service carry out the following checks before you call for service:
● Disconnect the cordless telephone and try using the service with the normal telephone.
● If the telephone service then operates satisfactorily, the fault is in your cordless telephone. Leave the cordless telephone disconnected and report the fault to its supplier or agent to arrange for repair.
● If when using the telephone the service is still faulty, report the fault to "Service Difficulties and Faults" for attention.

Keep this cordless telephone in good working order while it is connected to your telephone service. Its construction or internal circuit must not be modified in any way.

Warning:
This cordless telephone system does not incorporate provision for secrecy of conversations. Appropriately tuned radio equipment and other cordless telephone systems in close proximity may be used by a third party to monitor and possibly interrupt conversations in progress when this system is on radio operation.

Index

For your future reference

We recommend keeping a record of the following information to assist with any repair under warranty.
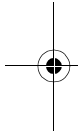
Serial No.	Date of purchase

(found on the bottom of the base unit)

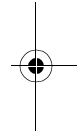Name and address of dealer

Attach your purchase receipt here.

Customer Care Centre Tel. No.: 132600
or website www.panasonic.com.au

⚠ N52

Sales Department:
Panasonic Australia Pty. Limited
Austlink Corporate Park, 1 Garigal Road, Belrose, NSW 2085, Australia

Panasonic System Networks Co., Ltd.
1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan

TG6521AL

PNQX2487ZA   CC0210DL1030 (A)