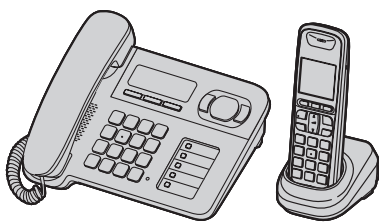


**Panasonic**<sup>®</sup>

## **Operating Instructions**

**Digital Cordless Phone**

Model No. **KX-TG6451BX**



**Thank you for purchasing a Panasonic product.**

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

**Charge the batteries for about 7 hours before initial use.**

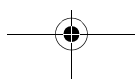
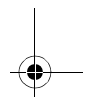
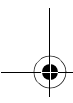
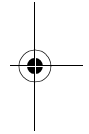
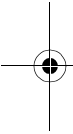
Please read these operating instructions before using the unit and save them for future reference.



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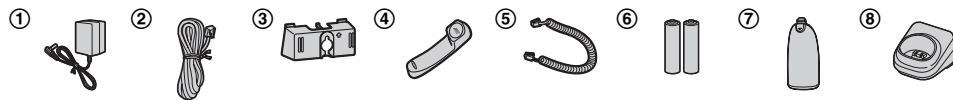


**Introduction****Accessory information****Supplied accessories**

No.	Accessory item/Part number	Quantity
①	AC adaptor/PQLV219BX	2
②	Telephone line cord	1
③	Wall mounting adaptor	1
④	Corded handset	1
⑤	Corded handset cord	1
⑥	Rechargeable batteries <sup>*1</sup> /HHR-55AAAB or N4DHYYY00001	2
⑦	Handset cover <sup>*2</sup>	1
⑧	Charger	1

\*1 See page 3 for replacement battery information.

\*2 The handset cover comes attached to the handset.

**Additional/replacement accessories**

Please contact your nearest Panasonic dealer for sales information.

Accessory item	Model number
Rechargeable batteries	HHR-4MPT <sup>*1</sup>
	Battery type: – Nickel metal hydride (Ni-MH). – 2 x AAA (R03) size for the handset.
DECT repeater	KX-A272

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

## 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.
- Do not excessively pull the corded handset cord from the base unit. This may cause the base unit to fall, resulting in injury.

##### 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 relocation

- 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.
- The cordless handset 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 charger to charge the batteries. Do not tamper with the charger. Failure to follow these instructions may cause the batteries to swell or explode.

## Important Information

### 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

#### 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 cordless 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 moist 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.

## Important Information

### 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)
  - **Power source:**  
220–240 V AC, 50/60 Hz
  - **Power consumption:**  
**Base unit:**  
Standby: Approx. 0.9 W  
Maximum: Approx. 1.6 W  
**Charger:**  
Standby: Approx. 0.2 W  
Maximum: Approx. 3.2 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.

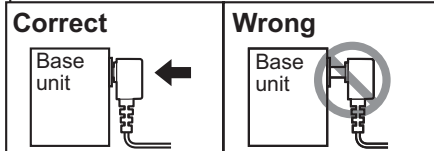
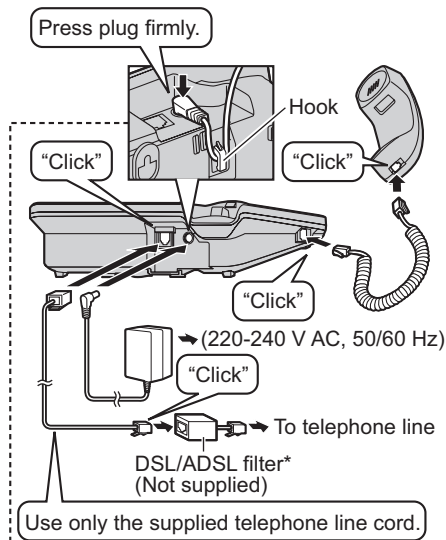
**Getting started**

**Setting up**

**Connections**

- Use only the supplied Panasonic AC adaptor PQLV219BX.

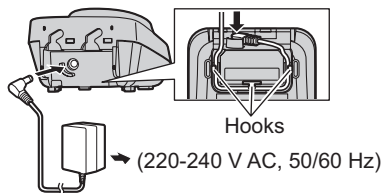
■ **Base unit**



\*For DSL/ADSL service users

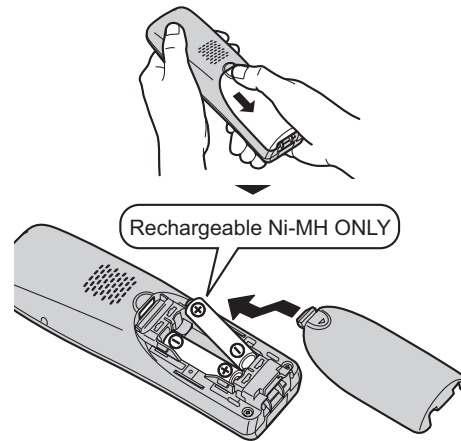
- When "Set Date/Time" is displayed, see "Date and time" (page 12) using the handset.

■ **Charger**



**Battery installation**

- USE ONLY Ni-MH batteries AAA (R03) size.
- Do NOT use Alkaline/Manganese/Ni-Cd batteries.
- Confirm correct polarities (+, -).

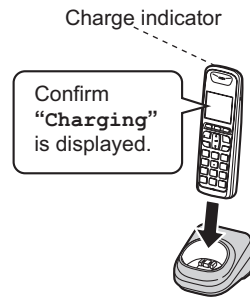


- When the language selection is displayed, see page 11.

**Battery charge**

Charge for about 7 hours.

- When the batteries are fully charged, the charge indicator goes off.



## Getting started

### 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.

#### During a power failure

The base unit will work as a standard telephone using power from the telephone line, so you can make and answer outside calls with the corded handset. However, this operation may not work properly depending on area or telephone line's condition. The base unit speakerphone and the cordless handset will not function during a power failure.





#### Note for battery installation

- Use the supplied rechargeable batteries. For replacement, we recommend using the Panasonic rechargeable batteries noted on page 3, 4.
- Wipe the battery ends (+, -) with a dry cloth.
- Avoid touching the battery ends (+, -) 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 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:

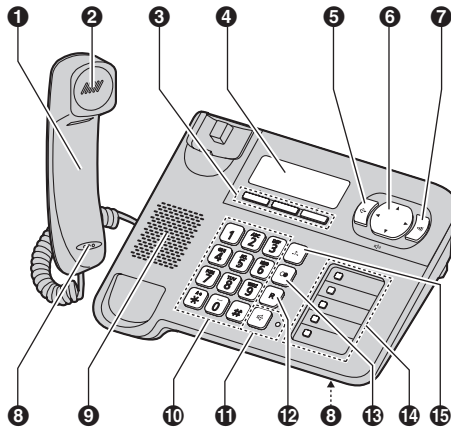
- It is normal for batteries not to reach full capacity at the initial charge. Maximum battery performance is reached after a few complete cycles of charge/discharge (use).
- Actual battery performance depends on a combination of how often the handset is in use and how often it is not in use (standby).
- Even after the handset is fully charged, the handset can be left on the 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 charger and let it charge for at least 7 hours.



## Getting started

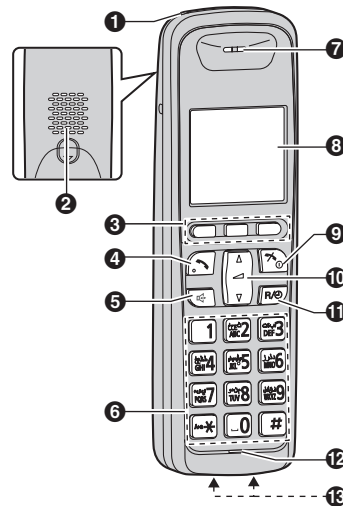
### Controls

#### Base unit



- 1 Corded handset
- 2 Receiver
- 3 Soft keys
- 4 Display
- 5 [↔] (Exit)
- 6 Navigator key ([▲]/[▼])  
🔊: Volume ([▲]/[▼])
- 7 [📞] (Locator/Intercom)
- 8 Microphone
- 9 Speaker
- 10 Dial keypad
- 11 [📢] (Speakerphone)  
Speakerphone indicator
- 12 [R] (Recall/Flash)
- 13 [⏸] (Redial) (Pause)
- 14 Speed dial buttons
- 15 [🔒] (Hold)

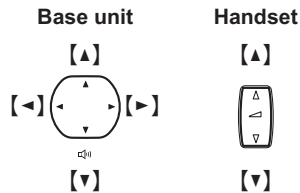
#### Handset



- 1 Charge indicator  
Ringer indicator
- 2 Speaker
- 3 Soft keys
- 4 [📞] (Talk)
- 5 [📢] (Speakerphone)
- 6 Dial keypad
- 7 Receiver
- 8 Display
- 9 [🔌] (Off/Power)
- 10 Navigator key ([▲]/[▼])  
🔊: Volume ([▲]/[▼])
- 11 [R/🔌]  
R: Recall/Flash  
🔌: Alarm shortcut key
- 12 Microphone
- 13 Charge contacts

## Getting started

### Using the navigator key/ volume key (⏮, ⏭)



#### ■ Scrolling through lists or items

By pressing this key ([▲] or [▼]) repeatedly, you can scroll through (up or down) various lists or items.

#### ■ Adjusting the volume

By pressing this key ([▲] or [▼]) repeatedly, you can adjust the receiver or speaker volume (up or down) while talking.

#### ■ Moving the cursor

**Base unit:** [▲], [▼], [◀], or [▶]

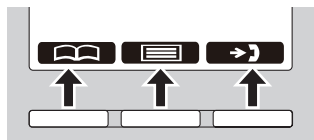
**Handset:** [▲] or [▼]

By pressing the above keys repeatedly, you can move the cursor to edit a number or name.

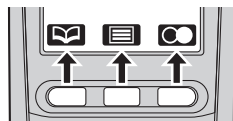
### Soft keys

Each unit features 3 soft keys. By pressing a soft key, you can select the feature shown directly above it on the display.

#### Base unit



#### Handset



## Display

### Display items

Item	Meaning
📞	Paging, intercom mode.
☎	Handset is on an outside call.
🔇	Ringer volume is off. (page 20, 21)
✉ <sup>*1</sup>	New voice mail message received. (page 28)
📞 <sup>*2</sup>	Missed call (page 26)
🚫 <sup>*2</sup>	Blocked call (page 24)
IN USE	Someone is using the line.
📶 <sup>*3</sup>	Within range of a base unit <ul style="list-style-type: none"> <li>When flashing: Handset is searching for base unit. (page 36)</li> </ul>
🕒 <sup>*3</sup>	Alarm is on. (page 23)
🔒 <sup>*3</sup>	Privacy mode is on. (page 21)
🔋 <sup>*3</sup>	Battery level

\*1 Voice mail subscribers only

\*2 Caller ID subscribers only

\*3 Handset only

## Getting started

### Soft key icons

Icon	Action
	Returns to the previous screen.
	Displays the menu.
	Accepts the current selection.
	Erases the selected item.
	Switches the screen. (page 26)
	Erases a number/character.
	Puts the call on mute.
	Opens the phonebook.
	Stores phone numbers in the call barred list. (page 24)
*1	Opens the caller list.
*2	Displays a previously dialled phone number.
*2	Displays the character entry mode for phonebook search. (page 17)
*2	Turns the key lock feature off. (page 16)
*2	Selects a character entry mode.
*2	Inserts a dialling pause.
*2	Allows you to make an intercom call.

\*1 Base unit only

\*2 Handset only

### Turning the power on/off

#### Handset

#### Power on

Press [] for about 1 second.

#### Power off

Press [] for about 2 seconds.

### Initial settings

#### Symbol meaning:

Symbol	Meaning
	Perform with the base unit.
	Perform with the handset.
<b>Example:</b> []/[]: "Off"	Press [] or [] to select the words in quotations.

### Display language

#### Base unit

Base unit display language is available in English only.

#### Handset

3 display languages are available. You can select "English", "العربية", or "فارسی".

#### Important:

- When the language selection is displayed after installing the batteries for the first time, perform step 5.

- 1 (middle soft key)
- 2 []/[]: "Handset Setup" → **OK**
- 3 []/[]: "Display Setup" → **OK**
- 4 []/[]: "Language" → **OK**
- 5 []/[]: Select your desired language. → **OK** → []

#### If you select a language you cannot read

#### Important:

- If the unit is not in standby mode, press [].

- 1 (middle soft key)
- 2 [] 4 times → **OK**
- 3 [] 2 times → **OK** 2 times → []/[]: Select your desired language. → **OK** → []

## Getting started


### Dialling mode

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

"Tone": For tone dial service.


"Pulse": For rotary/pulse dial service.

#### Handset

- 1  (middle soft key)
- 2 **[v]/[^]**: "Base Unit Setup" → **OK**
- 3 **[v]/[^]**: "Dial Mode" → **OK**
- 4 **[v]/[^]**: Select the desired setting. → **OK**  
→ **[\*0]**

### Date and time

#### Handset

- 1  (middle soft key)
- 2 **[v]/[^]**: "Handset Setup" → **OK**
- 3 **[v]/[^]**: "Time Settings" → **OK**
- 4 **[v]/[^]**: "Set Date/Time" → **OK**
- 5 Enter the current date, month, and year. → **OK**  
**Example:** 15 July, 2009  
**[1][5] [0][7] [0][9]**
- 6 Enter the current hour and minute.  
**Example:** 15:30  
**[1][5] [3][0]**
- 7 **OK** → **[\*0]**

#### Note:

- When you select Arabic as the display language, enter the current year, month, and date.
- To correct a digit, press **[^]** or **[v]** 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.

## Making/Answering Calls

### Making calls

#### Using the base unit

- 1 Dial the phone number.
  - To correct a digit, press **C**.
- 2 Lift the corded handset.
- 3 When you finish talking, place the corded handset on the cradle.

#### Note:

- You can also dial the phone number after lifting the corded handset.

#### Using the speakerphone

- 1 During a conversation with the corded handset, press **[☞]** to turn on the speakerphone.
  - You can place the corded handset on the cradle.
  - Speak into the base unit microphone.
  - 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 to the receiver, lift the corded handset.

#### Using the handset

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

#### Using the speakerphone

- 1 During a conversation, press **[☞]** to turn on the speakerphone.
  - 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

#### Base unit / Handset

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

### Making a call using the redial list

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

#### Base unit / Handset

- 1 Proceed with the operation for your unit.  
**Base unit:** **[☞]**  
**Handset:** **[☞]** (right soft key)
- 2 **[▼]/[▲]**: Select the desired phone number.
- 3 Proceed with the operation for your unit.  
**Base unit:** Lift the corded handset.  
**Handset:** **[↶]**

### Erasing a number in the redial list

- 1 Proceed with the operation for your unit.  
**Base unit:** **[☞]**  
**Handset:** **[☞]** (right soft key)
- 2 **[▼]/[▲]**: Select the desired phone number.  
 → **[☰]** → **OK**
- 3 **[▼]/[▲]**: "Yes" → **OK**
- 4 Proceed with the operation for your unit.  
**Base unit:** **[↶]**  
**Handset:** **[⏏]**

### 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 18).

#### Base unit / Handset

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

- 1 **[0]**
- 2 Proceed with the operation for your unit.  
**Base unit:** **[☞]**  
**Handset:** **[P]**
- 3 Dial the phone number.

## Making/Answering Calls

- 4 Proceed with the operation for your unit.  
**Base unit:** Lift the corded handset.  
**Handset:** [📞]

### Note:

- A 3 second pause is inserted each time [📞] on the base unit or [P] on the handset is pressed. Repeat as needed to create longer pauses.

## Answering calls

### Using the base unit

When a call is being received, the speakerphone indicator flashes.


- 1 Lift the corded handset or press [📞] when the unit rings.
- 2 When you finish talking, place the corded handset on the cradle. When the speakerphone is used, press [📞].

### Adjusting the base unit ringer volume

#### ■ While the base unit is ringing for an incoming call:

Press [▲] or [▼] repeatedly to select the desired volume.

#### ■ Programming the volume beforehand:

- 1  (middle soft key)
- 2 [▼]/[▲]: "Ringer Setup" → **OK**
- 3 [▼]/[▲]: "Ringer Volume" → **OK**
- 4 [▼]/[▲]: Select the desired volume.
- 5 **OK** → [↩]

### Using the handset

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

- 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 charger.

### Auto talk


You can answer calls simply by lifting the handset off the charger. You do not need to press [📞]. To turn this feature on, see page 21.

### Adjusting the handset ringer volume

#### ■ While the handset is ringing for an incoming call:

Press [▲] or [▼] repeatedly to select the desired volume.

#### ■ Programming the volume beforehand:

- 1  (middle soft key)
- 2 [▼]/[▲]: "Handset Setup" → **OK**
- 3 [▼]/[▲]: "Ringer Setup" → **OK**
- 4 [▼]/[▲]: "Ringer Volume" → **OK**
- 5 [▼]/[▲]: Select the desired volume.
- 6 **OK** → [📞]

## Useful features during a call

### Hold

This feature allows you to put an outside call on hold.

#### Base unit

- 1 Press [📞] during an outside call.
  - If you are using the corded handset, you can place it on the cradle.
- 2 To release hold, lift the corded handset or press [📞].
  - A handset user can take the call by pressing [📞].

### Note:




- If a call is kept on hold for more than 9 minutes, the base unit starts to sound an alarm tone. After 1 additional minute on hold, the call is disconnected.
- If another phone is connected to the same line, you can also take the call by lifting its handset.
- While an outside call is on hold, the speakerphone indicator on the base unit flashes.

## Making/Answering Calls

### Mute

While mute is turned on, you can hear the other party, but the other party cannot hear you.

 Base unit /  Handset

- 1 Press  during conversation.
  -  flashes.
- 2 To return to the conversation, press  again.

### Recall/flash

 Base unit /  Handset

[R] on the base unit or [R/⊙] on the handset 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.

### For call waiting or Call Waiting Caller ID service users

To use call waiting, you must first subscribe to the call waiting service of your service provider/telephone company.

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 base unit or handset that is in use after you hear the call waiting tone.

 Base unit /  Handset

- 1 Press [R] on the base unit or [R/⊙] on the handset to answer the 2nd call.
- 2 To switch between calls, press [R] on the base unit or [R/⊙] on the handset.

#### Note:

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

### Temporary tone dialling (for rotary/pulse service users)

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

 Base unit /  Handset

- 1 Make a call.
- 2 Press [\*] when prompted to enter your code or PIN, then press the appropriate dial keys.

#### Note:

- The dialling mode will return to pulse when you hang up.

### Call share

You can join an existing outside call.


#### Important:

- To prevent other users from joining your conversations with outside callers, turn the privacy mode on (page 21).

 Base unit

To join the conversation, lift the corded handset when the handset is on an outside call.

 Handset

To join the conversation, press [] when the other unit is on an outside call.

#### Note for base unit and handset:


- A maximum of 3 parties (including 1 outside party) can join a conversation.



## Making/Answering Calls

### Handset key lock

#### Handset

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  (middle soft key) for about 3 seconds.

-  is displayed.
- To turn key lock off, press  (middle soft key) for about 3 seconds.

#### Note:

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





## Base unit/handset phonebook

The phonebook allows you to make calls without having to dial manually. You can add names and phone numbers to the base unit and handset phonebook independently.



- Base unit: up to 100 entries
- Handset: up to 100 entries

### Adding entries

#### Base unit

- 1  (left soft key) → 
- 2 **[▼]/[▲]**: “New Entry” → **OK**
- 3 Enter the party's name (16 characters max.). → **OK**
- 4 Enter the party's phone number (24 digits max.). → **OK** 2 times
  - To add other entries, repeat from step 3.
- 5 **[↔]**


#### Handset

- 1  (left soft key) → 
- 2 **[▼]/[▲]**: “New Entry” → **OK**
- 3 Enter the party's name (16 characters max.). → **OK**
  - You can change the character entry mode by pressing **1/A/?** (page 31).
- 4 Enter the party's phone number (24 digits max.). → **OK** 2 times
  - To add other entries, repeat from step 3.
- 5 **[✕⓪]**

### Finding and calling a phonebook entry



#### Base unit / Handset

#### Scrolling through all entries

- 1  (left soft key)
- 2 **[▼]/[▲]**: Select the desired entry.
- 3 Proceed with the operation for your unit.  
**Base unit:** Lift the corded handset.


#### Handset:

#### Searching by first character (using a dial key)


- 1  (left soft key)
  - Handset: Change the character entry mode if necessary:  
**1/A/B** → **[▼]/[▲]**: Select the character entry mode. → **OK**
- 2 Press the dial key (**[0]** to **[9]**) which contains the character you are searching for (page 31).
  - 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 Proceed with the operation for your unit.  
**Base unit:** Lift the corded handset.  
**Handset:** 

#### Editing entries

##### Base unit

- 1 Find the desired entry (page 17). → 
- 2 **[▼]/[▲]**: “Edit” → **OK**
- 3 Edit the name if necessary (16 characters max.; page 31). → **OK**
- 4 Edit the phone number if necessary (24 digits max.). → **OK** 2 times → **[↔]**

##### Handset



- 1 Find the desired entry (page 17). → 
- 2 **[▼]/[▲]**: “Edit” → **OK**
- 3 Edit the name if necessary (16 characters max.; page 31). → **OK**
- 4 Edit the phone number if necessary (24 digits max.). → **OK** 2 times → **[✕⓪]**

## Phonebook




### Erasing entries

#### Base unit

#### Erasing an entry



- 1 Find the desired entry (page 17). → 
- 2 [v]/[▲]: "Erase" → **OK**
- 3 [v]/[▲]: "Yes" → **OK** → [

#### Erasing all entries




- 1  (left soft key) → 
- 2 [v]/[▲]: "Erase All" → **OK**
- 3 [v]/[▲]: "Yes" → **OK**
- 4 [v]/[▲]: "Yes" → **OK** → [

#### Handset

#### Erasing an entry

- 1 Find the desired entry (page 17). → 
- 2 [v]/[▲]: "Erase" → **OK**
- 3 [v]/[▲]: "Yes" → **OK** → [



#### Erasing all entries

- 1  (left soft key) → 
- 2 [v]/[▲]: "Erase All" → **OK**
- 3 [v]/[▲]: "Yes" → **OK**
- 4 [v]/[▲]: "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.

#### Base unit / Handset

- 1 Proceed with the operation for your unit.  
**Base unit:**  
 During an outside call, press .  
**Handset:**  
 During an outside call, press . → **OK**
- 2 [v]/[▲]: Select the desired entry.
- 3 Press **OK** to dial the number.

#### Note:



- When storing a calling card access number and your PIN in the phonebook as one phonebook entry, press [] on the base unit or [] on the handset to add pauses after the number and PIN as necessary (page 13).
- If you have rotary/pulse service, you need to press [] before pressing  on the base unit or  on the handset 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 17).

## Speed dial


You can assign 1 phone number from the phonebook to each of the 5 speed dial buttons.

#### Base unit

#### Assigning a phonebook entry to a speed dial button

- 1 Find the desired entry (page 17).
- 2 Press the speed dial button you want to assign to. → **OK**
  - If "Overwrite" is displayed, the button you selected has a phone number already assigned to it.  
 To overwrite with the currently selected phone number, go to step 3.  
 To select another button, press , then repeat this step.
- 3 **OK** → [


#### Note:

- In step 2, you can also press . → [v]/[▲]: "Speed Dial" → **OK** → [v]/[▲]: Select the desired speed dial button. → **OK**
- If a speed dial button has already been assigned, "✓" is displayed next to the button in step 2.


**Making a call using a speed dial button**

- 1 Press the desired speed dial button.
- 2 Lift the corded handset.

**Note:**

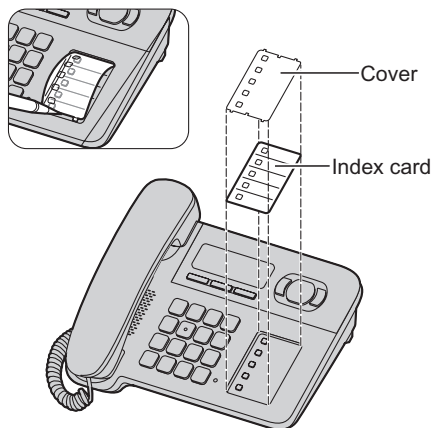
- In step 1, if no phone number is stored to the speed dial button, you can assign a number by pressing  and continue from step 1, "Assigning a phonebook entry to a speed dial button", page 18.

**Cancelling a speed dial assignment**

- 1 Press the desired speed dial button. →   
→ **OK**
- 2 **[▼]/[▲]**: "Yes" → **OK**

**Index card**

Use the index card to record the names/phone numbers stored to the speed dial buttons.




## Programming

### Programmable settings

You can customise the unit by programming the following features using the base unit or handset.

#### Programming by scrolling through the display menus

 Base unit /  Handset

- 1  (middle soft key)
- 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 [↔] on the base unit or [✕⓪] on the handset.

**Note:**

- In the following table, < > indicates the default settings.
- The current item or setting is highlighted on the display.

**Base unit**

Main menu	Sub-menu 1	Sub-menu 2	Page
Caller List →)	-	-	26
Ringer Setup ♪	Ringer Volume* <sup>1</sup> <Maximum>	-	14
	Ringtone <Ringtone 1>	-	-
Base Unit Setup E	Display Setup	Contrast <Level 3>	-
Caller Barred* <sup>2</sup> x:	-	-	-

\*1 When the ringer volume is turned off,  $\mu$  is displayed and the base unit does not ring for outside calls. However even when the ringer volume is set to off, the base unit rings at the low level for intercom calls (page 29).

\*2 If you program this setting using the base unit, you do not need to program the same item using the handset.

**Programming****Handset**

Main menu	Sub-menu 1	Sub-menu 2	Page
Caller List →)	-	-	26
Handset Setup ☎	Time Settings	Set Date/Time	12
		Alarm <Off>	23
		Time Adjust <sup>*1</sup> (Caller ID subscribers only) <Manual>	-
	Ringer Setup	Ringer Volume <sup>*2</sup> <Maximum>	14
		Ringtone <sup>*3, *4</sup> <Ringtone 1>	-
	Display Setup	Language <English>	11
		Contrast <Level 3>	-
	Register H.set	-	24
	Keytones <sup>*5</sup> <On>	-	-
	Auto Talk <sup>*6</sup> <Off>	-	14
Base Unit Setup ☎	Dial Mode <Tone>	-	12
	Privacy Mode <sup>*7</sup> <Off>	-	-
	Recall/Flash <sup>*8</sup> <600 msec.>	-	15
	Area Code	-	23
	Base Unit PIN <0000>	-	23
	Repeater <Off>	-	25
Caller Barred <sup>*9</sup> x)	-	-	23

\*1 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".

To use this feature, set the date and time first (page 12).

\*2 When the ringer volume is turned off,  $\mathcal{L}$  is displayed and the handset does not ring for outside calls. However even when the ringer volume is set to off, the handset rings at the lowest level for alarm (page 23), intercom calls (page 29), and paging (page 29).

\*3 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.

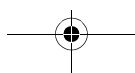
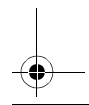
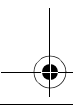
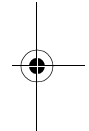
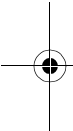
\*4 The preset melodies in this product are used with permission of © 2007 Copyrights Vision Inc.



## ***Programming***

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- \*5 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.
- \*6 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.
- \*7 To prevent other users from joining your conversations with outside callers, turn this feature on.
- \*8 The recall/flash time depends on your telephone exchange or host PBX. Contact your PBX supplier if necessary.
- \*9 If you program this setting using the handset, you do not need to program the same item using the base unit.



## Special programming

### Alarm

You can set one of 2 different alarm options (once or daily) at a time for the handset. An alarm sounds at the set time for 3 minutes.

#### Important:

- Set the date and time beforehand (page 12).

#### Handset

- 1 (middle soft key)
- 2 **[v]/[▲]**: "Handset Setup" → **OK**
- 3 **[v]/[▲]**: "Time Settings" → **OK**
- 4 **[v]/[▲]**: "Alarm" → **OK**
- 5 **[v]/[▲]**: Select the desired alarm option. → **OK**

#### "Off"

Turns alarm off. Go to step 9.

#### "Once"

An alarm sounds once at the set time.

- If you select Arabic as the display language, enter the desired month and date.

#### "Daily"

An alarm sounds daily at the set time. Go to step 7.

- 6 Enter the desired date and month. → **OK**
- 7 Set the desired time. → **OK**
- 8 **[v]/[▲]**: Select the desired alarm tone. → **OK**
  - We recommend selecting a different ringer tone to the one used for outside calls.
- 9 **OK** → **[\*0]**
  - When the alarm is set, **0** is displayed.

#### Note:

- You can skip to step 4 by pressing **[R/0]** in standby mode.
- To stop the alarm, press any dial key or place the handset on the charger.
- When the handset is in use, the alarm will not sound until the handset is in standby mode.
- If you select "Once", the setting changes to "Off" after the alarm sounds.

### Selecting area codes to be deleted automatically

In some situations, phone numbers stored automatically in the caller list (page 26) will include area codes. If you do not want to dial the area codes when making calls from the caller list, you can store the area codes 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".

#### Handset

- 1 (middle soft key)
- 2 **[v]/[▲]**: "Base Unit Setup" → **OK**
- 3 **[v]/[▲]**: "Area Code" → **OK**
- 4 Enter an area code (5 digits max.). → **OK**  
→ **[\*0]**

### 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.

#### Handset

- 1 (middle soft key)
- 2 **[v]/[▲]**: "Base Unit Setup" → **OK**
- 3 **[v]/[▲]**: "Base Unit PIN" → **OK**
- 4 Enter the current 4-digit base unit PIN (default: "0000").
- 5 Enter the new 4-digit base unit PIN. → **OK**  
→ **[\*0]**

### 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.

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.

## Programming

Program this setting using either the base unit or handset.

### 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 26) with  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:








- It is advised to store the phone number with an area code in the call barred list.

#### Base unit

##### ■ From the caller list:









- 1  (right soft key)
- 2 /▲: "Caller Barred" →  → 
- 3 /▲: "Add Bar List" → 
- 4 

##### ■ By entering phone numbers:






- 1  (middle soft key)
- 2 /▲: "Caller Barred" →  → 
- 3 Enter the phone number (24 digits max.). → 
  - To erase a digit, press .
- 4 


#### Handset

##### ■ From the caller list:

- 1  (middle soft key)
- 2 /▲: "Caller List" → 
- 3 /▲: Select the entry to be barred. → 
- 4 /▲: "Add Bar List" → 
- 5 

##### ■ By entering phone numbers:















- 1  (middle soft key)
- 2 /▲: "Caller Barred" →  → 
- 3 Enter the phone number (24 digits max.). → 

- To erase a digit, press .















#### 4

## Viewing/editing/erasing bar call numbers


### Base unit

- 1  (middle soft key)
- 2 /▲: "Caller Barred" → 
- 3 /▲: Select the desired entry.
  - To exit, press .
- 4 Proceed with the desired operation.
  - **Editing a number:**  
 → /▲: "Edit" →  → Edit the phone number. →  → 
  - **Erasing a number:**  
 → /▲: "Yes" →  → 

### Handset


- 1  (middle soft key)
- 2 /▲: "Caller Barred" → 
- 3 /▲: Select the desired entry.
  - To exit, press .
- 4 Proceed with the desired operation.
  - **Editing a number:**  
 → /▲: "Edit" →  → Edit the phone number. →  → 
  - **Erasing a number:**  
 → /▲: "Yes" →  → 




### Note for base unit and handset:

- When editing, press the desired dial key to add,  to erase.

## Registering a unit

### 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,  flashes even when the handset is near the base unit), re-register the handset.

- 1 **Handset:**  
 (middle soft key)
- 2 /▲: "Handset Setup" → 



## Programming

- 3 **[v]/[▲]: "Register H.set" → OK**
- 4 **Base unit:**  
Press and hold **[\*]** for about 5 seconds, until the registration tone sounds.
  - If the registered handset starts ringing, press the same button to stop. Then repeat this step.
  - The next step must be completed within 90 seconds.
- 5 **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, **Y** stops flashing.

### Deregistering a handset

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

#### Handset

- 1 **[≡]** (middle soft key)
- 2 **[v]/[▲]: "Base Unit Setup" → OK**
- 3 **[3][3][5]**
- 4 **[v]/[▲]: "Cancel Register" → OK**
- 5 Select the handset you want to cancel by pressing the desired handset number. → **OK**
  - The selected handset number flashes.
  - To cancel a selected handset number, press the number again. The number stops flashing.
- 6 **[v]/[▲]: "Yes" → OK**
  - A confirmation tone sounds as the handset number disappears.
  - The handset does not beep when cancelling its own registration.
- 7 **[\*]⓪**

### 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.
- Do not use more than one repeater at a time.

### Setting the repeater mode

#### Handset

- 1 **[≡]** (middle soft key)
- 2 **[v]/[▲]: "Base Unit Setup" → OK**
- 3 **[v]/[▲]: "Repeater" → OK**
- 4 **[v]/[▲]: Select the desired setting. → OK**  
→ **[\*]⓪**

#### Note:

- After turning repeater mode on or off, certain icons displayed on the base unit disappears for a moment and **Y** flashes on the handset momentarily. This is normal and the handset can be used once **Y** stops flashing.

## 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 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 26), **↔** disappears from the display. When you receive another new call, **↔** is displayed again.

#### 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.

### 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 12).

#### Viewing the caller list and calling back



##### Important:

- If you do not want to dial the area codes when making calls from the caller list, you can store the area codes which you want the unit to delete automatically (page 23).

##### Base unit

- 1  (right soft key)
- 2 Press **[▼]** to search from the most recent call, or **[▲]** to search from the oldest call.
  - If the other party's name is displayed on the screen, you can switch the screen between the name and its phone number by pressing  repeatedly.
- 3 To call back, lift the corded handset. To exit, press **[↔]**.

##### Handset

- 1  (middle soft key)
- 2 **[▼]/[▲]**: “**Caller List**” → **OK**
- 3 Press **[▼]** to search from the most recent call, or press **[▲]** to search from the oldest call.
  - If the other party's name is displayed on the screen, you can switch the screen between the name and its phone number by pressing  repeatedly.
- 4 To call back, press **[↔]**. To exit, press **[✕○]**.

##### Note for base unit and handset:

- If the entry has already been viewed or answered, “✓” is displayed, even if it was viewed or answered using another unit.

### Editing a caller's phone number before calling back

#### Base unit

- 1 (right soft key)
- 2 : Select the desired entry.
  - If the other party's name is displayed on the screen, you can switch the screen between the name and its phone number by pressing repeatedly.
- 3 → : "Edit & Call" → **OK**
- 4 Edit the number.
  - Press dial key ([0] to [9]) to add, **C** to delete.
- 5 Lift the corded handset.

#### Handset

- 1 (middle soft key)
- 2 : "Caller List" → **OK**
- 3 : Select the desired entry.
  - If the other party's name is displayed on the screen, you can switch the screen between the name and its phone number by pressing repeatedly.
- 4 → : "Edit & Call" → **OK**
- 5 Edit the number.
  - Press dial key ([0] to [9]) to add, **C** to delete.
- 6

### Erasing selected caller information

#### Base unit

- 1 (right soft key)
- 2 : Select the desired entry. → **X**
- 3 : "Yes" → **OK** →

#### Handset

- 1 (middle soft key)
- 2 : "Caller List" → **OK**
- 3 : Select the desired entry. → **X**
- 4 : "Yes" → **OK** →

### Erasing all caller information

#### Base unit

- 1 (right soft key) → **X**
- 2 : "Yes" → **OK** →

#### Handset

- 1 (middle soft key)
- 2 : "Caller List" → **OK** → **X**
- 3 : "Yes" → **OK** →

### Storing caller information to the phonebook

#### Base unit

- 1 (right soft key)
- 2 : Select the desired entry.
- 3 → : "Add Phonebook" → **OK**
- 4 Continue from step 3, "Adding entries", page 17.

#### Handset


- 1 (middle soft key)
- 2 : "Caller List" → **OK**
- 3 : Select the desired entry.
- 4 → : "Add Phonebook" → **OK**
- 5 Continue from step 3, "Adding entries", page 17.




## Voice Mail Service

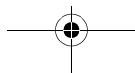
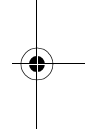
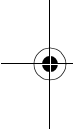
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### Voice mail service

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 shown on the display 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 on the handset.



## Intercom

Intercom calls can be made between the base unit and handset.

### Note:

- If you receive an outside call while talking on the intercom, you hear interrupt tones.
  - To answer the call with the base unit, place the corded handset on the cradle, then lift it again. If the speakerphone is used, press [📞] 2 times.
  - To answer the call with the handset, press [📞], then press [📞].
- When paging unit, the paged unit beeps for 1 minute.

## Making an intercom call

### Base unit

- 1 Press [📞].
  - Lift the corded handset if needed.
  - To stop paging, press [📞].
- 2 When you finish talking, press [📞] or place the corded handset on the cradle.

### Handset

- 1 [📞] (middle soft key) → [📞]
- 2 To page the base unit, press [0].
  - To stop paging, press [📞].
- 3 When you finish talking, press [📞].

## Answering an intercom call

### Base unit

- 1 Lift the corded handset or press [📞] to answer the page.
- 2 When you finish talking, place the corded handset on the cradle or press [📞].

### Handset

- 1 Press [📞] to answer the page.
- 2 When you finish talking, press [📞].

## Handset locator

You can locate a misplaced handset by paging it.

- 1 **Base unit:**  
[📞]
  - The handset beeps for 1 minute.
- 2 To stop paging:  
**Base unit:**  
Press [📞].  
**Handset:**  
Press [📞], then press [📞].

## Transferring calls, conference calls




Outside calls can be transferred or a conference call with an outside party can be made between the base unit and handset.

### Base unit

- 1 During an outside call, press [📞].
  - 📞 flashes to indicate the outside call is on hold.
- 2 Wait for the paged party to answer.
  - If paged party does not answer, press [📞] to return to the outside call.
- 3 Proceed with the desired operation.
  - **To transfer the call:**  
Place the corded handset on the cradle.
    - The outside call is being routed to the handset.
  - **To establish a conference call:**  
Press [3].
    - To leave the conference, place the corded handset on the cradle. The other parties can continue the conversation.
    - To put the outside call on hold, press [📞]. To resume the conference, press [3].



## Intercom/Locator

### Handset



- 1 During an outside call, press  to put the call on hold.
  -  flashes to indicate the outside call is on hold.
- 2 To page the base unit, press **[0]**.
- 3 Wait for the paged party to answer.
  - If the paged party does not answer, press  to return to the outside call.
- 4 Proceed with the desired operation.
  - **To transfer the call:**  
Press **[\*0]**.
    - The outside call is routed to the destination unit.
  - **To establish a conference call:**  
Press **[3]**.
    - To leave the conference, press **[\*0]**.  
The other parties can continue the conversation.

### Transferring a call without speaking to the handset or base unit user

#### Base unit

- 1 During an outside call, press .
  -  flashes to indicate the outside call is on hold.
- 2 Place the corded handset on the cradle.
  - The outside call rings at the other unit.

#### Handset

- 1 During an outside call, press  to put the call on hold.
  -  flashes to indicate the outside call is on hold.
- 2 To page the base unit, press **[0]**.
- 3 **[\*0]**
  - The outside call rings at the other unit.

#### Note for base unit and handset:


- If the other user does not answer the call within 1 minute, the call rings at your unit again.

### Answering a transferred call

#### Base unit

Lift the corded handset or press **[\*]** to answer the page.

#### Handset

Press  to answer the page.

#### Note for base unit and handset:

- After the paging party disconnects, you can talk to the outside caller.

**Useful Information**

**Character entry**

 Base unit /  Handset

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 31).

- **Base unit:** Press [◀] or [▶] to move the cursor left or right.
- **Handset:** 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 **\*** to switch between uppercase and lowercase.
- When entering another character located on the same dial key, operation will differ depending on the display language you select.

**English**

- Press [▶] on the base unit or [▼] on the handset to move the cursor to the next space, then press the appropriate dial key.

**Arabic/Persian for handset**

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

**Note for handset:**

- 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 as follows:

Base unit: Alphabet (ABC)

Handset: Alphabet (ABC), Numeric (0-9), Arabic (أبج), Persian (ابج), Extended 1 (AÄÄ)

When in these entry modes except Numeric, you can select which character is entered by pressing a dial key repeatedly.

**When the handset displays the character entry screen:**

**1/A/?** (right soft key) → [▼]/[▲]: Select a character entry mode. → **OK**

**Note for handset:**

- 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)**

- Dial keys on the base unit do not include Arabic characters.

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

### Useful Information

#### 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 (أبـت)

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

0	1	2	3	4	5	6	7	8	9
Space	# Space	ث ج ح	ا ب پ ت	ط ظ ع غ	س ش ص	ذ ذ ر ز	ي ي ء	م ن ه و	ف ق ك
.	* ( ) ' &	خ ٢	آ آ إ إ	٤	ض ه	٦	٧	٨	گ ل ٩

#### Persian character table (أبـت)

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

0	1	2	3	4	5	6	7	8	9
Space	# Space	ث ج ح	ا ب پ ت	ط ظ ع غ	س ش ص	ذ ذ ر ز	ي ي ء	م ن ه و	ف ق ك
.	* ( ) ' &	خ ٢	آ آ إ إ	٤	ض ه	٦	٧	٨	گ ل ٩

#### Extended 1 character table (AÄÄ)

0	1	2	3	4	5	6	7	8	9
Space	Space #	A Ä Á	D E È	G Ğ H	J K L	M N Ñ	P Q R S	T U Ü	W Ŵ X
0	& ' ( ) *	Å Ä Å	É Ê Ë	Ì Í Î	5	O Ò Ó	Ş ß 7	Ú Û Ü	Ý ŷ Z 9
	, - . / 1	À Æ B	Ĕ Ė F 3	Ī Ĭ Ĵ		Ô Õ Ö		Û Ü 8	
		C Ç 2	4			ø 6			
		a à á	d e è	g ğ h	j k l 5	m n ñ	p q r s	t u ù	w Ŵ x
		â ä å	é ê ë	ì í î		o ò ó	ş ß 7	ú û ü	y ŷ z 9
		ã æ b	ĕ ė f 3	ĵ ħ 4		ô õ ö		û v 8	
		c ç 2				ø 6			

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

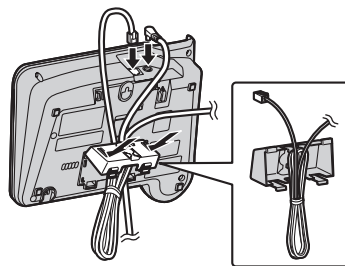


**Useful Information**

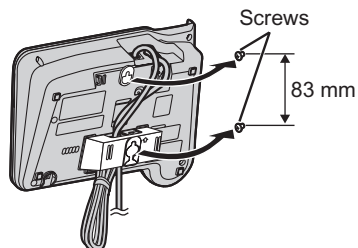
**Wall mounting**

**Base unit**

- 1 Connect the AC adaptor and telephone line cord. Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.
  - The word "UP" should face upward.

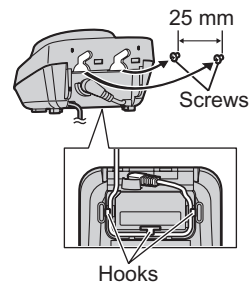


- 2 Connect the telephone line cord. Drive the screws (not supplied) into the wall. Mount the unit, and then slide it down. Connect the AC adaptor to power outlet (page 7).

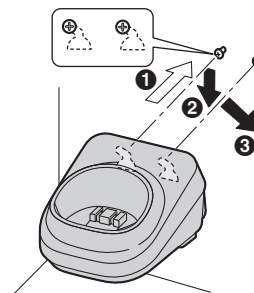


**Charger**

- 1 Drive the screws (not supplied) into the wall.



- 2 Mount the charger (1), then slide it down (2) and to the right (3) until it is secure.



## 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	<ul style="list-style-type: none"> <li>The supplied telephone line cord has not been connected yet or not connected properly. Check the connections (page 7).</li> </ul>
Memory Full	<ul style="list-style-type: none"> <li>The phonebook memory is full. Erase unnecessary entries (page 18).</li> <li>The call barred list memory is full. Erase unnecessary entries (page 24).</li> </ul>
No link. Reconnect AC adaptor.	<ul style="list-style-type: none"> <li>The handset has lost communication with the base unit. Move closer to the base unit and try again.</li> <li>Unplug the base unit's AC adaptor to reset the unit. Reconnect the adaptor and try again.</li> <li>The handset's registration may have been cancelled. Re-register the handset (page 24).</li> </ul>
Use rechargeable battery.	<ul style="list-style-type: none"> <li>A wrong type of battery such as Alkaline or Manganese was inserted. Use only the rechargeable Ni-MH batteries noted on page 3, 4.</li> </ul>
You must first subscribe to Caller ID.	<ul style="list-style-type: none"> <li>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.</li> </ul>

**Useful Information**

**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**



<b>Problem</b>	<b>Cause/solution</b>
The handset does not automatically turn on after installing/replacing batteries.	<ul style="list-style-type: none"> <li>• The battery is empty or too weak to turn on the power. Place the handset on the charger, and let it charge.</li> </ul>
The unit does not work.	<ul style="list-style-type: none"> <li>• Make sure the batteries are installed correctly (page 7).</li> <li>• Fully charge the batteries (page 7).</li> <li>• Check the connections (page 7).</li> <li>• 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.</li> <li>• The handset has not been registered to the base unit. Register the handset (page 24).</li> </ul>
I cannot hear a dial tone.	<ul style="list-style-type: none"> <li>• Make sure that you are using the supplied telephone line cord. Your old telephone line cord may have a different wiring configuration.</li> <li>• The base unit's AC adaptor or telephone line cord is not connected. Check the connections.</li> <li>• If you are using a splitter to connect the unit, remove the splitter and connect the unit to the wall jack directly. If the unit operates properly, check the splitter.</li> <li>• 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.</li> </ul>
I do not know how to erase → (Missed call) from the display.	<ul style="list-style-type: none"> <li>• There are unviewed missed calls remaining. View them and erase → in the following way.</li> </ul> <p><b>Base unit:</b></p> <ol style="list-style-type: none"> <li>1 → (right soft key)</li> <li>2 Press [▼] to search from the most recent call, or press [▲] to search from the oldest call.</li> </ol> <p><b>Handset:</b></p> <ol style="list-style-type: none"> <li>1 [☰] (middle soft key)</li> <li>2 [▼]/[▲]: "Caller List" → OK</li> <li>3 Press [▼] to search from the most recent call, or press [▲] to search from the oldest call.</li> </ol>
I cannot use "Copy" or "Copy All" when I press [☰] while displaying phonebook entries.	<ul style="list-style-type: none"> <li>• These items are phonebook copy features between the handsets. Although the handset shows these items, copy features are not available for this model. Phonebook entries cannot be copied even between the base unit and the handset.</li> </ul>

## Useful Information


### Programmable settings

Problem	Cause/solution
I have changed the display language to a language I cannot read.	<ul style="list-style-type: none"> <li>Change the display language (page 11).</li> </ul>
While programming, the unit starts to ring.	<ul style="list-style-type: none"> <li>A call is being received. Answer the call and start again after hanging up.</li> </ul>
While programming, the display returns to standby mode.	<ul style="list-style-type: none"> <li>A call matching an entry in the call barred list is being received. Wait and try again later.</li> </ul>
I cannot register a handset to a base unit.	<ul style="list-style-type: none"> <li>You entered the wrong PIN. If you forget your PIN, contact an authorised service centre.</li> <li>Place the handset and the base unit away from other electrical appliances.</li> </ul>

### Battery recharge

Problem	Cause/solution
The handset beeps and/or  flashes.	<ul style="list-style-type: none"> <li>Battery charge is low. Fully charge the batteries (page 7).</li> </ul>
I fully charged the batteries, but  still flashes.	<ul style="list-style-type: none"> <li>Clean the charge contacts and charge again (page 8).</li> <li>It is time to replace the batteries (page 7).</li> </ul>
I fully charged the batteries, but the operating time seems to be shorter.	<ul style="list-style-type: none"> <li>Clean the battery ends (+, -) and the charge contacts with a dry cloth and charge again.</li> </ul>
The handset display is blank.	<ul style="list-style-type: none"> <li>The handset is not turned on. Turn the power on (page 11).</li> </ul>

### Making/answering calls, intercom

Problem	Cause/solution
 is flashing.	<ul style="list-style-type: none"> <li>The handset is too far from the base unit. Move closer.</li> <li>The base unit's AC adaptor is not properly connected. Reconnect AC adaptor to the base unit.</li> <li>You are using the base unit or handset in an area with high electrical interference. Re-position the base unit and use the handset away from sources of interference.</li> <li>The handset is not registered to the base unit. Register it (page 24).</li> </ul>
Noise is heard, sound cuts in and out.	<ul style="list-style-type: none"> <li>You are using the base unit or handset in an area with high electrical interference. Re-position the base unit and use the handset away from sources of interference.</li> <li>Move closer to the base unit.</li> <li>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.</li> </ul>
The base unit and/or handset does not ring.	<ul style="list-style-type: none"> <li>The ringer volume is turned off. Adjust the ringer volume (page 14).</li> </ul>

**Useful Information**

Problem	Cause/solution
I cannot make a call.	<ul style="list-style-type: none"> <li>• The dialling mode may be set incorrectly. Change the setting (page 12).</li> <li>• The handset is too far from the base unit. Move closer and try again.</li> <li>• Another unit is in use. Wait and try again later.</li> <li>• The key lock feature is turned on. Turn it off (page 16).</li> </ul>

**Caller ID**

Problem	Cause/solution
Caller information is not displayed.	<ul style="list-style-type: none"> <li>• You must subscribe to Caller ID service. Contact your service provider/telephone company for details.</li> <li>• If your unit is connected to any additional telephone equipment, remove and plug the unit directly into the wall jack.</li> <li>• 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.</li> <li>• Other telephone equipment may be interfering with this unit. Disconnect the other equipment and try again.</li> </ul>
Caller information is displayed late.	<ul style="list-style-type: none"> <li>• Depending on your service provider/telephone company, the unit may display the caller's information at the 2nd ring or later.</li> <li>• Move closer to the base unit.</li> </ul>
Time on the unit has shifted.	<ul style="list-style-type: none"> <li>• Incorrect time information from incoming Caller ID changes the time. Set the time adjustment to "Manual" (off) (page 21).</li> </ul>
The name stored in the phonebook is not displayed fully while an outside call is being received.	<ul style="list-style-type: none"> <li>• Edit the phonebook entry name to fit in 1 line of text (page 17).</li> </ul>

**Liquid damage**

Problem	Cause/solution
Liquid or other form of moisture has entered the base unit/handset.	<ul style="list-style-type: none"> <li>• 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 base unit/handset 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.</li> </ul>

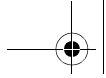
**Caution:**

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

## Index

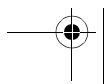
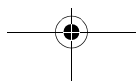
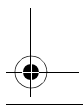
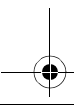
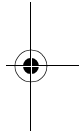
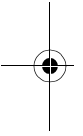
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## Notes



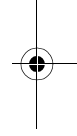
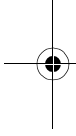


**For your future reference**

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.



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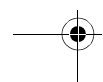
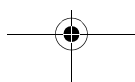
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