

# Panasonic®

2.4 GHz Expandable Cordless Answering System

## Operating Instructions

Model No. **KX-TG2970**

Pulse-or-tone dialing capability



This unit is ADT security system compatible. To use the function of ADT security system, you must subscribe to ADT.

The unit is Caller ID compatible. To display the caller's name and phone number, you must subscribe to Caller ID service.

**PLEASE READ BEFORE USE AND SAVE.**

**Charge the battery for 6 hours before initial use.**

**Panasonic World Wide Web address: <http://www.panasonic.com>**  
for customers in the USA or Puerto Rico

**Thank you for purchasing your new Panasonic cordless telephone.**

Please read IMPORTANT SAFETY INSTRUCTIONS on page 78 before use. Read and understand all instructions.

Caller ID and Call Waiting Service, where available, are telephone company services. After subscribing to Caller ID this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting with Caller ID services (CWID).

**Attach your purchase receipt here.**

**Copyright:**

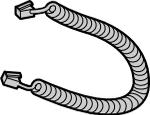
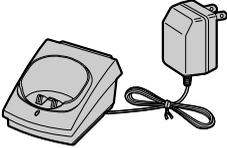
This material is copyrighted by Panasonic Communications Co., Ltd., and may be reproduced for internal use only. All other reproduction, in whole or in part, is prohibited without the written consent of Panasonic Communications Co., Ltd.

© 2004 Panasonic Communications Co., Ltd. All Rights Reserved.

**Accessories (included)**

For extra orders, call 1-800-332-5368.

For hearing or speech impaired TTY users, call 1-866-605-1277.

<input type="checkbox"/> AC Adaptor (p. 10) Order No. PQLV10Z (PQLV10)  1	<input type="checkbox"/> Telephone Line Cord (p. 10) Order No. PQJA10075Z  1	<input type="checkbox"/> Handset (p. 10) Order No. PQJXM0130Z  1
<input type="checkbox"/> Handset Cord (p. 10) Order No. PQJA212V  1	<input type="checkbox"/> Battery (p. 11) Order No. HHR-P402  1	<input type="checkbox"/> Handset Cover (p. 11) Order No. PQYNTG2970BR  1
<input type="checkbox"/> Charger Unit (p. 11) Charger Order No. PQLV30028ZB AC Adaptor Order No. KX-TCA1-G (KX-TCA1)  1	<input type="checkbox"/> Belt Clip (p. 65) Order No. PQKE10340Z2  1	

To use more than one cordless handset, please purchase the accessory cordless handset KX-TGA290. The charger is included. To order, contact your dealer or call 1-800-211-PANA(7262) to locate a dealer.

**Trademarks:**

ADT, ADT Logos, and 1-800-ADT-ASAP are trademarks of ADT Services AG. SecurityLink, SecurityLink Plus, Security Made Simple, and Safewatch are trademark of ADT Security Services, Inc.

## For Best Performance

### Battery Charge

The cordless handset is powered by a rechargeable Nickel-Metal Hydride (Ni-MH) battery. Charge the battery for **6 hours** before initial use (p. 12).

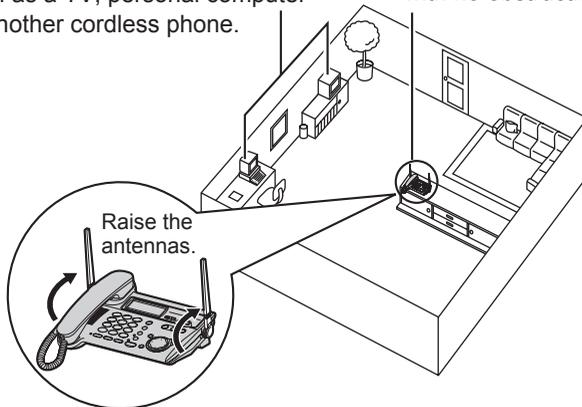


### Base Unit Location/Noise

Calls are transmitted between the base unit and the cordless handset using wireless radio waves. **For maximum distance and noise-free operation**, the recommended base unit location is:

Away from electrical appliances such as a TV, personal computer or another cordless phone.

In a HIGH and CENTRAL location with no obstructions such as walls.



**Note:**

- If you use the cordless handset near a microwave oven which is being used, noise may be heard from the receiver or the speaker. Move away from the microwave oven and closer to the base unit.
- If you use the cordless handset near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

**For assistance, please call: 1-800-ADT-ASAP**

# Contents

---

## *Preparation*

<b>Location of Controls</b> . . . . .	<b>6</b>
<b>Displays</b> . . . . .	<b>9</b>
<b>Installation</b> . . . . .	<b>10</b>
Connections . . . . .	10
Installing the Battery in the Cordless Handset . . . . .	11
Battery Charge . . . . .	12
<b>Programmable Settings</b> . . . . .	<b>14</b>
Programming Guidelines . . . . .	14
Function Menu Table . . . . .	16
Date and Time . . . . .	18
Dialing Mode . . . . .	19
Line Mode . . . . .	20
Ringer Volume . . . . .	21
Ringer Tone . . . . .	22
Auto Talk . . . . .	23
LCD Contrast . . . . .	23
<b>Preparing the Answering System</b> . . . . .	<b>24</b>
Greeting Message . . . . .	24
Caller's Recording Time . . . . .	25
Number of Rings . . . . .	26
<b>Registration for Additional Handsets</b> . . . . .	<b>27</b>

## *Telephone System*

<b>Making Calls</b> . . . . .	<b>28</b>
Using the Base Unit . . . . .	28
Using the Cordless Handset . . . . .	30
<b>Answering Calls</b> . . . . .	<b>32</b>
<b>Caller ID Service</b> . . . . .	<b>33</b>
<b>Using the Caller List</b> . . . . .	<b>34</b>
Viewing the Caller List . . . . .	34
Calling Back from the Caller List . . . . .	35

Editing the Caller's Phone Number . . . . .	36
Caller ID Number Auto Edit . . . . .	37
Storing Caller Information in the Phone Book . . . . .	38
Erasing Caller Information . . . . .	39
<b>Phone Book</b> . . . . .	<b>40</b>
Storing Names and Numbers . . . . .	40
Dialing from the Phone Book . . . . .	42
Editing an Item in the Phone Book . . . . .	43
Erasing an Item in the Phone Book . . . . .	43
Copying Items in the Phone Book . . . . .	44
<b>Intercom</b> . . . . .	<b>46</b>
Making Intercom Calls . . . . .	46
Answering Intercom Calls . . . . .	47
<b>Transferring a Call</b> . . . . .	<b>48</b>
<b>Conference Calls</b> . . . . .	<b>50</b>
Call Share . . . . .	50
<b>Special Features</b> . . . . .	<b>51</b>
Muting Your Conversation . . . . .	51
Temporary Tone Dialing (For Rotary or Pulse Service Users) . . . . .	51
For Call Waiting Service Users . . . . .	51
Using the PAUSE Button (For PBX Line/Long Distance Calls) . . . . .	52
Incoming Call Tone . . . . .	52
FLASH Button . . . . .	53

## Answering System

<b>Automatic Answering</b>	
<b>Operation</b> . . . . .	<b>54</b>
Setting the Unit to Answer	
Calls. . . . .	54
<b>Listening to Messages</b> . . . . .	<b>56</b>
Using the Base Unit. . . . .	56
Using the Cordless Handset	
(Remote Operation). . . . .	57
<b>Erasing Messages</b> . . . . .	<b>59</b>
<b>Transferring a Call to the</b>	
<b>Answering System</b> . . . . .	<b>60</b>
<b>Remote Operation from</b>	
<b>a Touch Tone Phone</b> . . . . .	<b>61</b>
Remote Code . . . . .	62
Voice Menu . . . . .	63
Direct Remote Operation. . . . .	64

## Useful Information

<b>Belt Clip</b> . . . . .	<b>65</b>
<b>Optional Headset</b> . . . . .	<b>65</b>
<b>Wall Mounting</b> . . . . .	<b>66</b>
<b>Canceling Registration/</b>	
<b>Re-registration</b> . . . . .	<b>68</b>
Canceling the Handset	
Registration . . . . .	68
Re-registering the Handset . . . . .	69
<b>If the Following Appear on</b>	
<b>Your Display...</b> . . . . .	<b>70</b>
<b>Troubleshooting</b> . . . . .	<b>73</b>
<b>Important Safety</b>	
<b>Instructions</b> . . . . .	<b>78</b>
<b>FCC and Other Information</b> . . . . .	<b>79</b>
<b>Index</b> . . . . .	<b>82</b>
<b>Specifications</b> . . . . .	<b>84</b>
<b>Warranty</b> . . . . .	<b>85</b>

Preparation

Telephone System

Answering System

Useful Information

### Important

Throughout these Operating Instructions, **Base Unit** and **Handset** are used to indicate with which unit an operation can be performed.

**Base Unit** : Perform with the base unit.

**Handset** : Perform with the cordless handset.

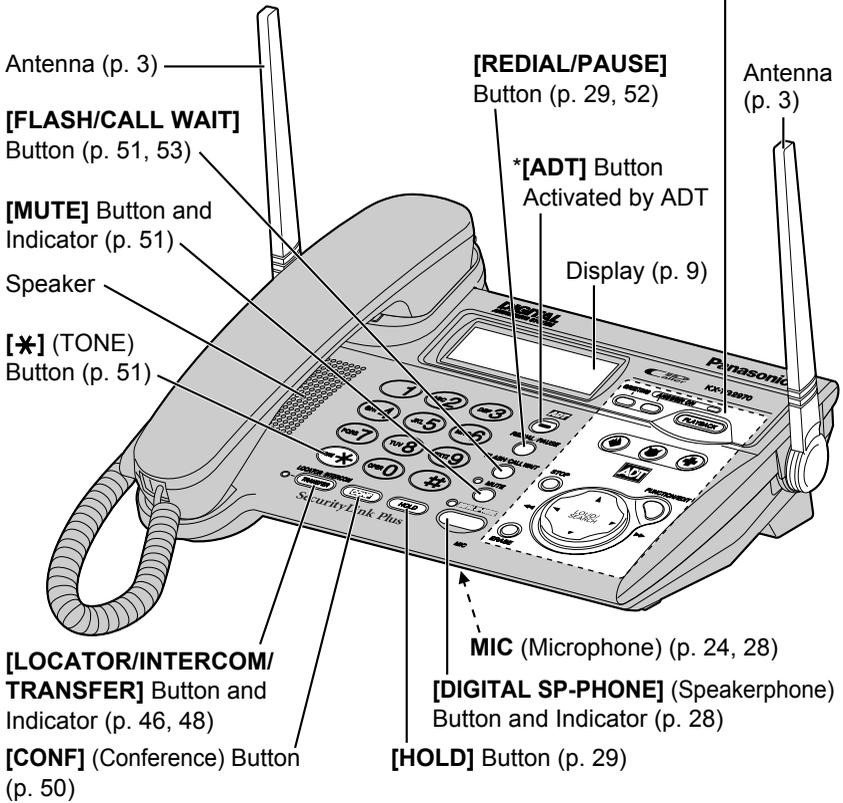
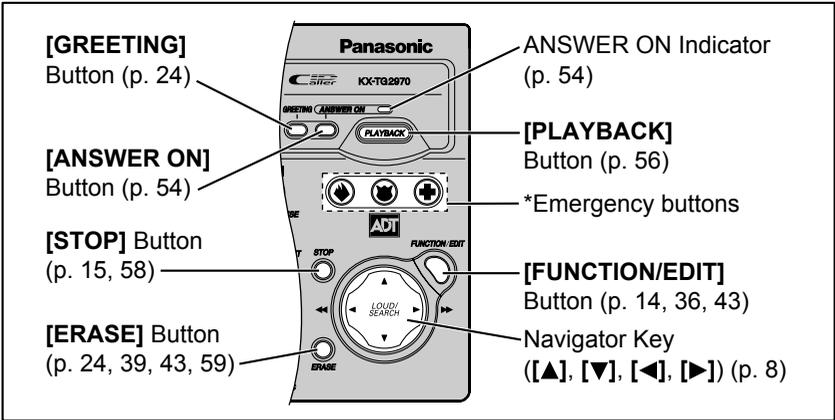
**Base Unit Handset** : Perform with the base unit and cordless handset separately.

**Use either Base Unit or Handset** : Perform with either the base unit or cordless handset. You do not need to perform the operation with both.

**Base Unit & Handset** : Perform with the base unit and cordless handset together.

# Location of Controls

## Base unit



\*Emergency buttons and **[ADT]** button can be used after subscribing to the ADT security services.



# Location of Controls

## How to use the navigator keys/soft keys

### Navigator keys

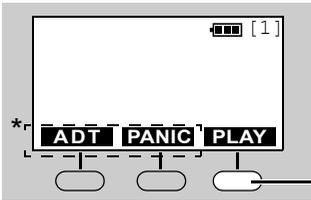
These keys have four active areas that are indicated by the arrows.

Base unit 		<ul style="list-style-type: none"><li>• Scrolls up the function menu, Caller List and the phone book.</li><li>• Increases the volume.</li></ul>
		<ul style="list-style-type: none"><li>• Scrolls down the function menu, Caller List and the phone book.</li><li>• Decreases the volume.</li></ul>
Cordless handset 		<ul style="list-style-type: none"><li>• Selects your menu choices, enters the phone book or moves the cursor forward.</li></ul>
		<ul style="list-style-type: none"><li>• Enters the phone book, returns to the previous display or moves the cursor backward.</li></ul>

Throughout these Operating Instructions, the navigator keys are indicated by the arrows [▼], [▲], [◀] or [▶].

### Cordless handset soft keys

Example



3 soft keys are used to select functions displayed directly above the keys. Functions displayed above each key will change depending on the state of use.

Pressing the right soft key selects message playback **PLAY**.

- When a function does not appear above a soft key, the soft key has no function.

\*“**ADT**” and “**PANIC**” can be used after subscribing to the ADT security services. Call 1-800-ADT-ASAP to subscribe to ADT security services.

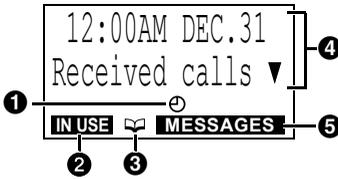
Throughout these Operating Instructions, the soft keys are indicated by the function icons, such as **PLAY**, **MUTE** and **SAVE**.

### Lighted handset keypad

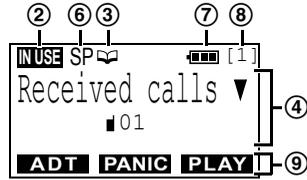
The dialing buttons will light for a few seconds after pressing a button or lifting the cordless handset off the charger.

# Displays

## Base unit



## Cordless handset



❶ When “⌚” flashes, the clock needs setting (p. 18).

❷❷ “**IN USE**” functions as follows.

Off (invisible)	The line is free.
On	The line is being used.
Flashing	A call is on hold on the cordless handset or base unit, or the Answering System is answering a call (p. 54).
Flashing quickly	A call is being received.

❸❸ “” is displayed when storing, viewing, copying or receiving the phone book items (p. 40–45).

❹❹ The display shows the dialed number, call status, programming options, phone book items, Caller ID information etc. The time and date are displayed on the base unit. “” (extension icon) is displayed with the extension numbers (ex. base unit=“0”, cordless handset 1=“1”) during an intercom call (p. 46) or a conference call (p. 50).

❺ “**MESSAGES**” will flash if there is at least one new message (p. 56). If there are only old messages, “**MESSAGES**” will not flash but remain lit. If there are no messages, “**MESSAGES**” will not be displayed.

❻ “SP” is shown when you are using the cordless handset speaker a) during an intercom call (p. 46) or a conference call (p. 50); b) while listening to messages (p. 57).

❼ The battery icon indicates the battery strength (p. 12).

❽ The extension number of your cordless handset is displayed if it has been registered to the base unit (p. 27, 69).

❾ The prompts on the bottom line will show corresponding functions of the soft keys which are located directly below the display (p. 8).

Ex. The soft key below “**PLAY**” will function as **PLAY** key.

## Backlit LCD displays

The display of the cordless handset will light for a few seconds after pressing a button or lifting the cordless handset off the charger.

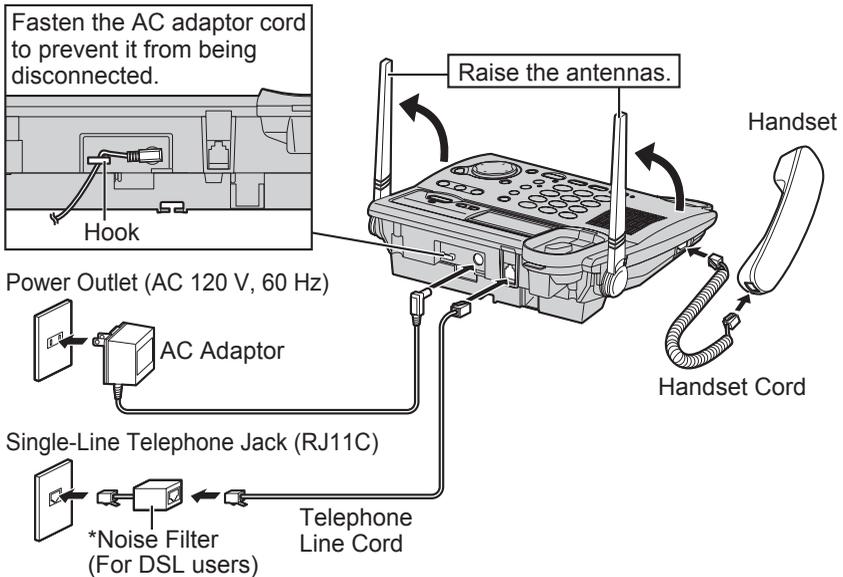
The base unit display will light during use.

# Installation

## Connections

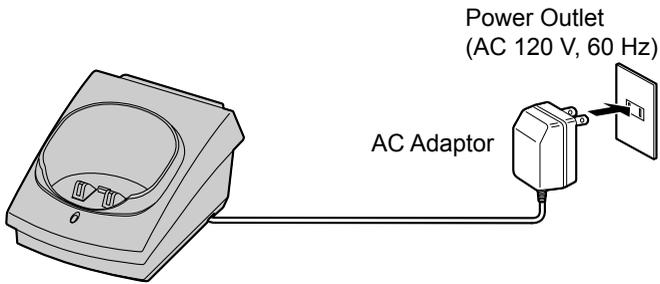
### Base unit

Connect the handset cord to the handset and the base unit, place the handset on the cradle, and then connect the AC adaptor and the telephone line cord.



- Base unit: USE ONLY WITH Panasonic AC ADAPTOR PQLV10 (Order No. PQLV10Z).
- Use Only a Panasonic Handset for the KX-TG2970.
- 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.
- If your unit is connected to a PBX which does not support Caller ID, you cannot access Caller ID services.
- This unit will not function during a power failure, unless it is connected to the ADT Security System.
- If the unit is connected to a telephone line with DSL service, you may hear noise during conversations or the unit may not display caller's name and/or phone number properly. We recommend connecting a noise filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.

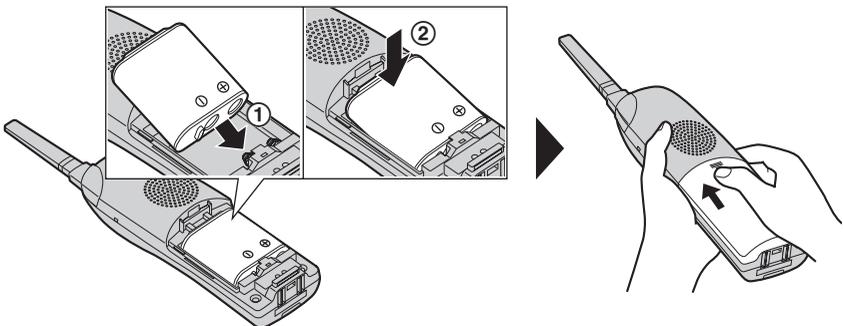
## Charger unit



- Charger unit: USE ONLY WITH Panasonic AC ADAPTOR KX-TCA1 (Order No. KX-TCA1-G).
- 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.

## Installing the Battery in the Cordless Handset

Insert the battery (①), and press it down until it snaps into the compartment (②). Close the cover.



### To replace the battery:

Press the notch on the cover firmly and slide it as indicated by the arrow. Replace the old battery with a new one (p. 13). Close the cover and charge the cordless handset for 6 hours.

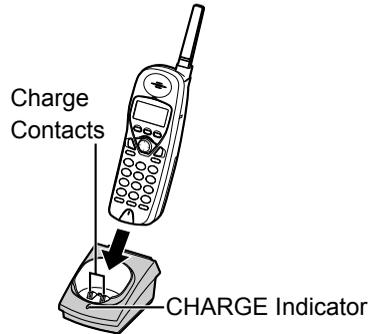


# Installation

## Battery Charge

Place the cordless handset on the charger and charge for **6 hours** before initial use.

- The unit beeps once, the CHARGE indicator lights and “**Charging**” is displayed.
- When the battery is fully charged, “**Charge completed**” is displayed if there are no new calls in the Caller List.



## Battery strength

You can confirm the battery strength on the cordless handset display. Battery strength is indicated by the icons shown in the chart below.

Display prompt	Battery strength
	Fully charged
	Medium
	Low
(flashing)	Needs to be recharged.
	Discharged

## Recharge

Recharge the battery when:

- “**Recharge battery**” is displayed on the cordless handset,
- “” flashes, or
- the cordless handset beeps intermittently while it is in use.



- The display will continually indicate “**Recharge battery**” and/or “” will flash when the battery is charged for less than 15 minutes and the cordless handset is lifted off the charger.
- If the battery has been discharged, the cordless handset will display “**Charge for 6 HRS**” and “” when you place the cordless handset on the charger. The cordless handset will not work unless the battery is charged. Continue charging.

## Battery replacement:

If you cleaned the charge contacts and fully charged the battery, but after a few telephone calls, “**Recharge battery**” is displayed and/or “” continues to flash, or “**Charge for 6 HRS**” and “” are displayed, the battery may need to be replaced. Please order a new Panasonic HHR-P402 battery at the telephone number shown on page 2. To replace the battery, see page 11.

A nickel metal hydride battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.



## Battery information

After your Panasonic battery is fully charged, you can expect the following performance:

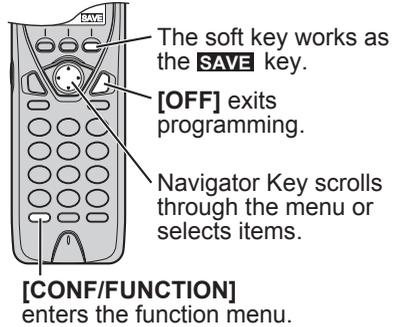
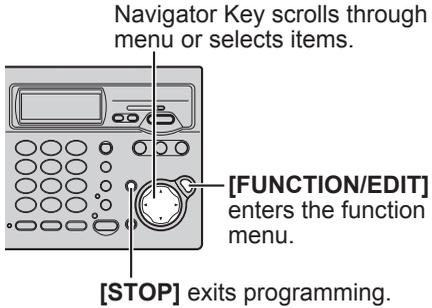
Operation	Operating time
While in use (TALK)	Up to 6 hours
While not in use (Standby)	Up to 14 days
While using the Clarity Booster feature (p. 31)	Up to 4 hours

- A fully charged battery will give you up to 6 hours of continuous talk time, or keep your cordless handset in Standby mode to receive incoming calls for up to 14 days (if no phone calls are made). Battery power is consumed whenever the cordless handset is off of the charger, even when the cordless handset is not in use. The longer you leave the cordless handset off of the charger, the time you can actually talk on the cordless handset will be shortened. Actual battery performance depends on a combination of how often the cordless handset is in TALK mode and how often it is in Standby mode.
- **Clean the charge contacts of the cordless handset and the charger with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- If the battery is fully charged, you do not have to place the cordless handset on the charger until “**Recharge battery**” is displayed and/or “” flashes. This will maximize the battery life.
- If you want to keep the battery fully charged at all times, place the cordless handset on the charger when the cordless handset is not used. The battery cannot be overcharged.
- When the Clarity Booster feature is turned on (p. 31), battery operating time may be shortened.

# Programmable Settings

## Programming Guidelines **Base Unit** **Handset**

The base unit and the cordless handset have programmable functions. They are selected from the function menu on the display (p. 16, 17).



### How to select a function item from the menu

**Make sure the base unit and the cordless handset are not being used. The cordless handset must be operated near the base unit and while off the charger.**

- 1** *Base unit:* Press **[FUNCTION/EDIT]**.  
*Cordless handset:*  
 Press **[CONF/FUNCTION]**.

-----  
 ▶Telephone  
 Security

- 2** Press **[▶]** at "Telephone".  
 • The main menu is displayed (p. 16, 17).

-----  
 ▶Save phone book  
 Ringer setting

- 3** Scroll to the desired item by pressing **[▼]** or **[▲]**. Press **[▶]** to select the item.

#### Base unit example

Save phone book  
 ▶Ringer setting  
 Date and time

- 4** If the item has a sub-menu, select the menu item (p. 16, 17). Repeat step 3 until your desired item is displayed. If the item has no sub-menu, go to step 5 on page 15.

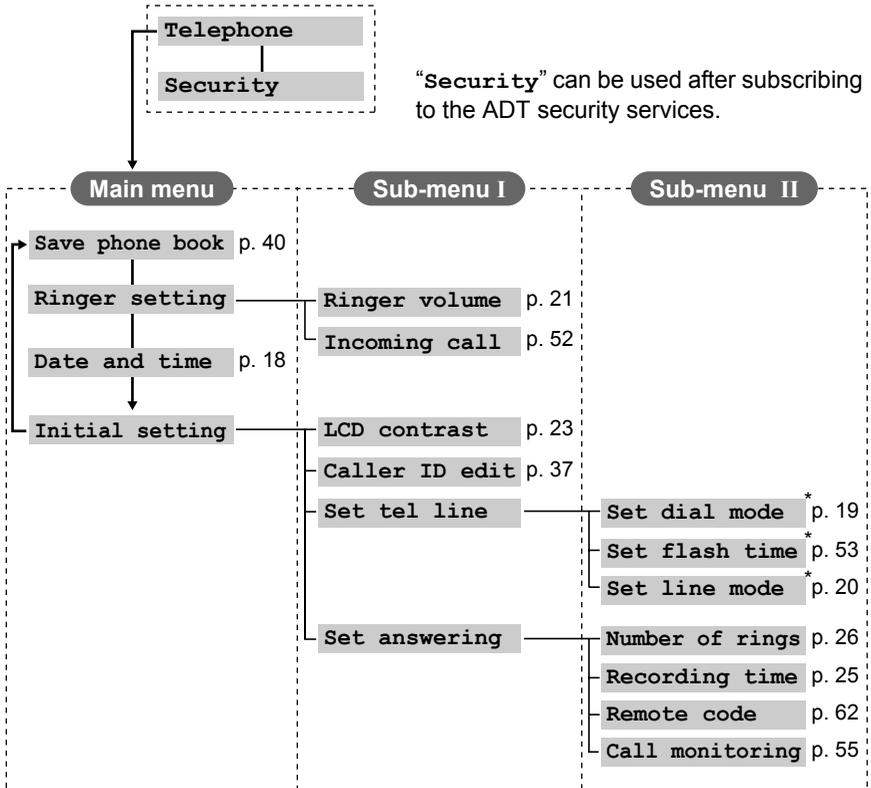


# Programmable Settings

## Function Menu Table

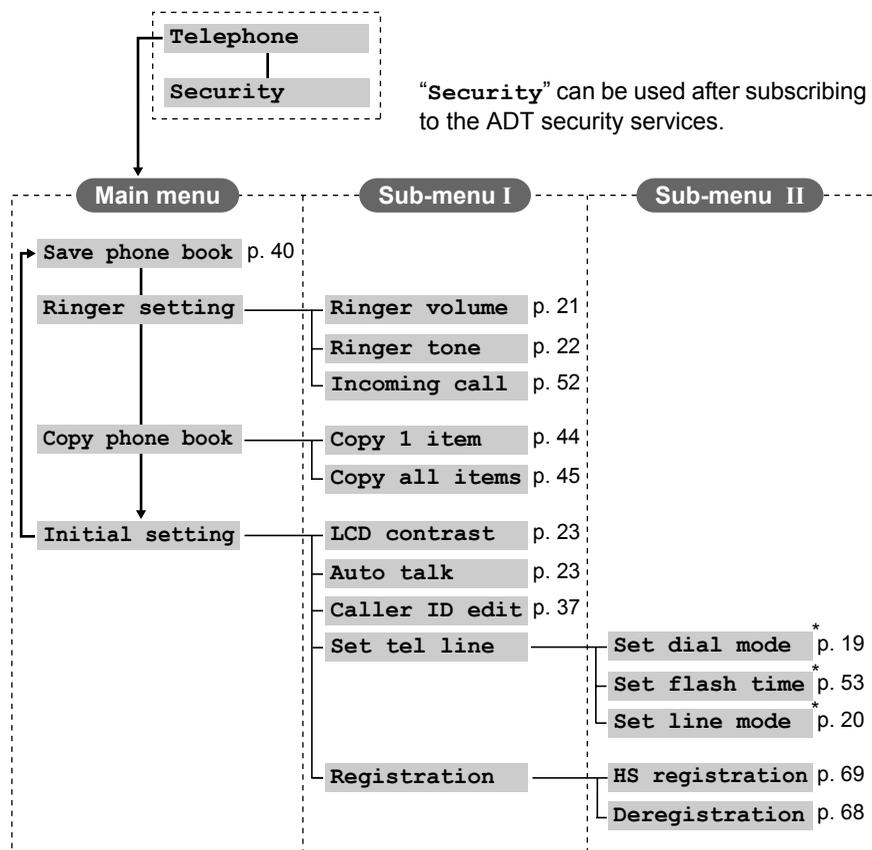
After pressing [FUNCTION/EDIT] on the base unit or [CONF/FUNCTION] on the cordless handset, select “Telephone” to customize your unit using the following functions. See the corresponding pages for function details.

### Base unit



\*The items with “\*” in the menu table can be programmed with either the base unit or the cordless handset. You do not need to program these items on both the base unit and the cordless handset.

## Cordless handset



\*The items with "\*" in the menu table can be programmed with either the base unit or the cordless handset. You do not need to program these items on both the base unit and the cordless handset.

# Programmable Settings

## Date and Time **Base Unit**

We recommend you set the date and time so that the unit will announce the day and time each message was recorded when you play back messages.

**1** Press **[FUNCTION/EDIT]**.

**2** Press **[▶]** at **“Telephone”**.

▶Telephone

**3** Scroll to **“Date and time”** by pressing **[▼]** or **[▲]**, then press **[▶]**.

▶Date and time

**4** (1) Enter 2 digits each for the month, day and year. (Ex. To set May 15, 2004, enter “05 15 04”.)

Date:12.31.2004  
Time:12:00 AM  
◀▶ 0-9=Date&Time  
\*=AM/PM ▼=Save

(2) Enter 4 digits for the time (hour and minute). (Ex. To set 9:30, enter “0930”.)

Date:05.15.2004  
Time:09:30 AM  
◀▶ 0-9=Date&Time  
\*=AM/PM ▼=Save

• If you enter a wrong number, press **[◀]** or **[▶]** to move the cursor to the incorrect number. Enter the correct number.

**5** Select **“AM”** or **“PM”** by pressing **[\*]**.

**6** Press **[▼]** (**Save**).

- If a long beep sounds, the setting is not correct. Start again from step 4.
- The clock starts working.

**7** Press **[STOP]**.

- When entering the time, you cannot enter numbers greater than 12. **Do not use military time.** (To set 13:00 hours, enter “0100”, and select **“PM”**.)

The date and time may be incorrect after a power failure. When “⊕” flashes on the base unit display, set the date and time again.

### **For Caller ID service users (p. 33)**

- When a call is received, Caller ID information adjusts the date and time if the time is incorrect.
- Caller ID information will automatically adjust the date and time for daylight saving time.
- If the date and time have not been previously set, Caller ID information will not adjust the date and time.

# Programmable Settings

## Dialing Mode (use either **Base Unit** or **Handset**)

If you have touch tone service, set the dialing mode to “Tone”. For rotary or pulse service, set to “Pulse”. The factory preset is “Tone”.

### Base Unit

1 Press <b>[FUNCTION/EDIT]</b> .	
2 Press <b>[▶]</b> at “Telephone”.	▶Telephone
3 Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Initial setting
4 Scroll to “Set tel line” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Set tel line
5 Press <b>[▶]</b> at “Set dial mode”.	▶Set dial mode
6 Select “Pulse” or “Tone” by pressing <b>[▼]</b> or <b>[▲]</b> .	Set dial mode :Tone ▼▲ ▶=Save
7 Press <b>[▶]</b> (save), then press <b>[STOP]</b> .	

### Handset

Press **[CONF/FUNCTION]**, and follow steps 2 to 6 above, using the cordless handset. Press the soft key (**SAVE**), then press **[OFF]**.

# Programmable Settings

## Line Mode (use either **Base Unit** or **Handset**)

The line mode is preset to “B” and generally should not be adjusted. If “**IN USE**” is not displayed properly, the line mode selection is incorrect. Set line mode to “A”.

### Base Unit

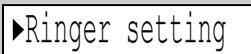
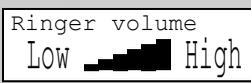
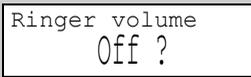
1 Press <b>[FUNCTION/EDIT]</b> .	
2 Press <b>[▶]</b> at “Telephone”.	▶Telephone
3 Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Initial setting
4 Scroll to “Set tel line” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Set tel line
5 Scroll to “set line mode” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Set line mode
6 Select “A” or “B” by pressing <b>[▼]</b> or <b>[▲]</b> .	Set line mode :B ▼▲ ▶=Save
7 Press <b>[▶]</b> (save), then press <b>[STOP]</b> .	

### Handset

Press **[CONF/FUNCTION]**, and follow steps 2 to 6 above, using the cordless handset. Press the soft key (**SAVE**), then press **[OFF]**.

## Ringer Volume **Base Unit** **Handset**

You can select the ringer volume to HIGH, MEDIUM, LOW or OFF on the base unit and the cordless handset separately. The factory preset is HIGH. If set to OFF, the unit will not ring for outside calls and will ring at the LOW level for intercom calls.

<p><b>1</b> <i>Base unit:</i> Press <b>[FUNCTION/EDIT]</b>. <i>Cordless handset:</i> Press <b>[CONF/FUNCTION]</b>.</p>	
<p><b>2</b> Press <b>[▶]</b> at “Telephone”.</p>	
<p><b>3</b> Scroll to “Ringer setting” by pressing <b>[▼]</b> or <b>[▲]</b>, then press <b>[▶]</b>.</p>	
<p><b>4</b> Press <b>[▶]</b> at “Ringer volume”.</p>	
<p><b>5</b> Select the desired volume by pressing <b>[▼]</b> or <b>[▲]</b>.</p> <ul style="list-style-type: none"> <li>• The volume will change and ring.</li> <li>• The number of steps indicates the volume level.</li> <li>• <b>To turn the ringer OFF</b>, press <b>[▼]</b> repeatedly until “Off ?” is displayed.</li> </ul>	<p>Ex. HIGH</p>  <p>Ex. Off</p> 
<p><b>6</b> <i>Base unit:</i> Press <b>[▶]</b> (<b>Save</b>). <i>Cordless handset:</i> Press the soft key (<b>SAVE</b>).</p>	

- If set to OFF, the base unit displays “Ringer off” while not in use and no new calls are in the Caller List. The cordless handset displays “Ringer off” while not in use.
- You can also select the ringer volume while an outside call is being received. Press **[▼]** or **[▲]** while the unit is just ringing.

# Programmable Settings

## Ringer Tone **Handset**

You can select one of 6 ringer tones for outside calls on the cordless handset. The factory preset is “1”.

<b>1</b> Press <b>[CONF/FUNCTION]</b> .	
<b>2</b> Press <b>[▶]</b> at “ <b>Telephone</b> ”.	▶Telephone
<b>3</b> Scroll to “ <b>Ringer setting</b> ” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Ringer setting
<b>4</b> Scroll to “ <b>Ringer tone</b> ” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Ringer tone
<b>5</b> Select the desired tone by pressing <b>[▼]</b> or <b>[▲]</b> . <ul style="list-style-type: none"><li>• The tone will change and ring. If the ringer volume has been set to OFF, the unit will not ring.</li><li>• You can also select the ringer tone by pressing <b>[1]</b> to <b>[6]</b>.</li></ul>	Ringer tone :1
<b>6</b> Press the soft key ( <b>SAVE</b> ), then press <b>[OFF]</b> .	

## Auto Talk **Handset**

The Auto Talk feature allows you to answer calls by simply lifting the cordless handset off the charger without pressing [↶] or [↷]. To use this feature, turn the feature ON. The factory preset is OFF.

1 Press [CONF/FUNCTION].	
2 Press [▶] at "Telephone".	▶Telephone
3 Scroll to "Initial setting" by pressing [▼] or [▲], then press [▶].	▶Initial setting
4 Scroll to "Auto talk" by pressing [▼] or [▲], then press [▶].	▶Auto talk
5 Select "on" or "off" by pressing [▼] or [▲].	Auto talk :Off
6 Press the soft key ( <b>SAVE</b> ), then press [OFF].	

• In order to view Caller ID information after you lift up the cordless handset to answer a call, leave the Auto Talk feature OFF.

## LCD Contrast **Base Unit Handset**

You can select the LCD contrast (6 levels) on the base unit and the cordless handset separately. The factory preset is "level 3".

1 <i>Base unit:</i> Press [FUNCTION/EDIT]. <i>Cordless handset:</i> Press [CONF/FUNCTION].	
2 Press [▶] at "Telephone".	▶Telephone
3 Scroll to "Initial setting" by pressing [▼] or [▲], then press [▶].	▶Initial setting
4 Press [▶] at "LCD contrast".	▶LCD contrast
5 Select the desired contrast by pressing [▼] or [▲]. <ul style="list-style-type: none"> <li>• The contrast will change.</li> <li>• The number of steps indicates the contrast level.</li> </ul>	Ex. Level 6 LCD contrast Low  High
6 <i>Base unit:</i> Press [▶] ( <b>Save</b> ), then press [STOP]. <i>Cordless handset:</i> Press the soft key ( <b>SAVE</b> ), then press [OFF].	

# Preparing the Answering System

## Greeting Message **Base Unit**

You can record a personal greeting message of **up to 2 minutes**. If you do not record your own message, one of 2 pre-recorded greetings will be played for callers (p. 25).

The total recording time of all messages (greeting and incoming) is **about 12 minutes**. We recommend you record **a brief greeting message** in order to leave more time for recording new messages.

### To record a greeting message

#### Greeting message sample

“Hello, this is (your name and/or number). Sorry I cannot take your call. Please leave a message after the beep. Thank you.”

**1** Press and hold **[GREETING]** until “Record greeting after the beep” is heard.

**2** After the long beep, talk clearly, about 20 cm (8 inches) away from the **MIC** (microphone).

- The elapsed recording time is displayed.
- If you record for over 2 minutes, the unit will stop recording.

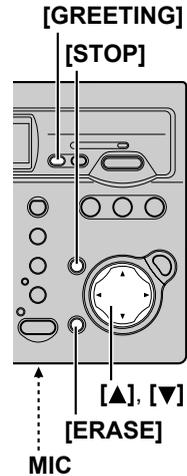
**3** When finished, press **[GREETING]** or **[STOP]**.

- To change the greeting, start again from step 1.

- If “**Recording error**” is displayed, 6 beeps sound and “Your greeting was not recorded. Record your greeting again.” is announced, start again from step 1.

**To adjust the speaker volume, press [▼] or [▲].**

- 9 levels (0–8) are available while using the Answering System.
- The number of steps shown on the display indicates the volume level.



### To review the greeting

Press **[GREETING]**.

### To erase the greeting

Press **[GREETING]**, then press **[ERASE]** while the recorded message is being played.

- The unit will answer calls with a pre-recorded greeting (p. 25).

# Preparing the Answering System

## Pre-recorded greeting

If you do not record a greeting (p. 24), one of 2 greetings will be played when a call is received, depending on the caller's recording time (see below).

To review the pre-recorded greeting, press **[GREETING]**.

- A pre-recorded greeting will be played as follows:
  - When the recording time is set to "1 minute", "2 minutes" or "3 minutes": "Hello, we are not available now. Please leave your name and phone number after the beep. We will return your call."
  - If recording time runs out, the unit will automatically switch to the "Greeting only" mode (see below), and no new messages will be recorded.
  - When the recording time is set to "Greeting only": "Hello, we are not available now. Please call again. Thank you for your call."

### Flash Memory Message Backup (Message storage)

Messages stored in memory will not be affected by power failures. All messages are saved until you erase them.

## Caller's Recording Time **Base Unit**

You can select "1 minute", "2 minutes", "3 minutes" or "Greeting only" for the caller's recording time. The factory preset is "3 minutes".

1 Press <b>[FUNCTION/EDIT]</b> .	
2 Press <b>[▶]</b> at "Telephone".	▶Telephone
3 Scroll to "Initial setting" by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Initial setting
4 Scroll to "Set answering" by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Set answering
5 Scroll to "Recording time" by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Recording time
6 Select the recording time by pressing <b>[▼]</b> or <b>[▲]</b> . <ul style="list-style-type: none"><li>• You can also select the recording time by pressing <b>[1]</b>, <b>[2]</b>, <b>[3]</b>, or <b>[0]</b> (Greeting only).</li></ul>	Recording time :3min
7 Press <b>[▶]</b> (Save), then press <b>[STOP]</b> .	

If you select "Greeting only", the unit will answer a call with the greeting message, and then hang up. The unit will not record any incoming messages.

# Preparing the Answering System

## Number of Rings **Base Unit**

You can select the number of times the unit rings before the Answering System answers a call, from “2” to “7” or “Toll saver”\*. The factory preset is “4”.

<b>1</b> Press <b>[FUNCTION/EDIT]</b> .	
<b>2</b> Press <b>[▶]</b> at “Telephone”.	▶Telephone
<b>3</b> Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Initial setting
<b>4</b> Scroll to “Set answering” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Set answering
<b>5</b> Press <b>[▶]</b> at “Number of rings”.	▶Number of rings
<b>6</b> Select the number of rings by pressing <b>[▼]</b> or <b>[▲]</b> . • You can also select the number of rings by pressing <b>[0]</b> (Toll saver*), or <b>[2]</b> to <b>[7]</b> .	Number of rings :4
<b>7</b> Press <b>[▶]</b> ( <b>save</b> ), then press <b>[STOP]</b> .	

### \*Toll saver

When you call the unit from a remote location, the number of rings will tell you if there are any new messages. If the unit answers on the 2nd ring, there is at least one new message. If the unit answers on the 4th ring, there are no new messages. To save the toll charges for the call, hang up immediately when you hear the 3rd ring. The 3rd ring indicates that there are no new messages.

# Registration for Additional Handsets **Base Unit & Handset**

KX-TG2970 includes a base unit and one cordless handset. You can expand the system by adding up to 2 additional cordless handsets, sold separately. A maximum of 3 cordless handsets can be registered to the base unit.

Generally a maximum of 3 extensions excluding or including the base unit can operate at a time. If 3 other extensions are in use, such as conducting a call, you may not be able to use your unit. "System is busy. Please try again later." will be displayed when you try to operate your unit. The maximum operating number may decrease, depending on the state of usage, such as using the Clarity Booster feature (p. 31), or when the Answering System is taking a call.

**KX-TG2970**



**KX-TGA290**



The included cordless handset is pre-registered at the factory and assigned the extension number 1. You do not need to register this handset which has "[1]" on the display. If you purchase accessory cordless handsets, you must register each to the base unit. Only one cordless handset can be registered at a time. A cordless handset will be assigned the extension number at registration. The model number of the accessory cordless handset is KX-TGA290. To order, contact your dealer or call 1-800-211-PANA(7262) to locate a dealer.

**Charge the battery fully. Make sure the base unit and the other cordless handsets are not being used.**

The cordless handset display shows the instructions as shown on the right.

Press MUTE on base unit, then OK on handset to register handset

**OK**

## 1 Base unit: Press [MUTE].

- The MUTE indicator flashes. After the MUTE indicator starts flashing, the rest of the procedure must be completed within 1 minute.

## 2 Cordless handset:

- (1) Press the soft key **[OK]**.
- (2) Wait until 3 beeps sound and the display shows the new extension number.
  - Registration is complete.

Ex. Extension number 2

Handset [2]  [2]  
Registered

- The registered number "[1]" to "[3]" is shown on the top right of the display.
- You can stop registration by pressing **[OFF]** on the cordless handset and pressing **[MUTE]** on the base unit.
- To re-register a cordless handset to a different base unit of the same model, see pages 68 and 69.

# Making Calls

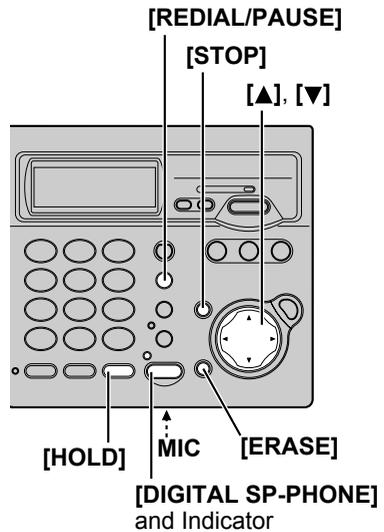
## Using the Base Unit **Base Unit**

You can make a call by simply lifting the handset off the cradle and dialing a phone number. To hang up, place the handset on the cradle.

- “Talk” is displayed while using the handset.

### To have a hands-free phone conversation

- 1 Press **[DIGITAL SP-PHONE]**.
  - The indicator lights and “SP-phone” is displayed.
- 2 Dial a phone number.
  - The dialed number is displayed.
  - After a few seconds, the display will show the length of the call.
  - If you misdial, press **[DIGITAL SP-PHONE]** and start again from step 1.
- 3 When the other party answers, talk into the **MIC** (microphone).
- 4 To hang up, press **[DIGITAL SP-PHONE]**.
  - The indicator goes out.



### Hands-free Digital Duplex Speakerphone

For best performance, please note the following:

- Talk alternately with the other party in a quiet room.
- If you or the other party has difficulty hearing, press [▼] to decrease the speaker volume.
- You can switch to the handset by lifting it up. To switch back to the speakerphone, press **[DIGITAL SP-PHONE]**.

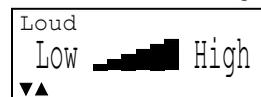
### To adjust the handset/speaker volume during a conversation

3 levels (High, Medium and Low) are available for the handset and 8 levels for the speaker.

To increase, press [▲]. To decrease, press [▼].

- The number of steps indicates the volume level.
- If you try to increase/decrease volume when it is at the maximum/minimum level, the base unit will beep 3 times.

Ex. Handset volume: High



## To dial after confirming the entered number

1. Enter a phone number.



- If you misdial, press **[ERASE]**. Dial the correct number.
  - To cancel, press **[STOP]**.
2. Lift the handset or press **[DIGITAL SP-PHONE]**.
  3. When the other party answers, talk into the handset or **MIC**.
  4. To hang up, place the handset or press **[DIGITAL SP-PHONE]**.

## To redial the last number dialed

Lift the handset or press **[DIGITAL SP-PHONE]**, then press **[REDIAL/PAUSE]**.

## To redial after confirming the last number dialed

1. Press **[REDIAL/PAUSE]**.
  - The last number dialed is displayed.
  - To cancel, press **[STOP]**.
2. Lift the handset or press **[DIGITAL SP-PHONE]**.
  - To erase an item, press **[ERASE]** while the number is displayed.

## To put a call on hold

Press **[HOLD]**.

- “Hold” is displayed and the DIGITAL SP-PHONE indicator flashes.
- If using the handset, you can place it on the cradle.

## To release the hold;

- when using the handset, press **[HOLD]**.
- when using the speakerphone, press **[DIGITAL SP-PHONE]** or lift the handset.
- Cordless handset users can release the hold by pressing **[↶]** or **[↷]**.
- If a call is kept holding for 6 minutes, an alarm tone will start to sound. After 4 additional minutes on hold the call will be disconnected.

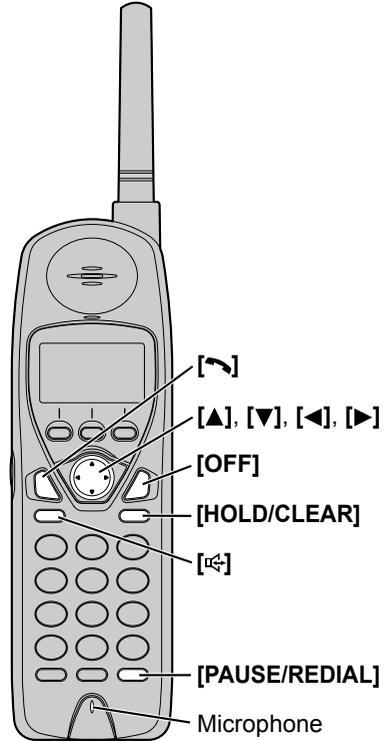
# Making Calls

## Using the Cordless Handset **Handset**

- 1 Press [**↶**].
  - “**Talk**” is displayed.
- 2 Dial a phone number.
  - The dialed number is displayed.
  - After a few seconds, the display will show the length of the call.
- 3 To hang up, press [**OFF**] or place the cordless handset on the charger.

## To have a hands-free phone conversation

- 1 Press [**☎**].
  - “**SP-phone**” is displayed.
- 2 Dial a phone number.
  - The dialed number is displayed.
  - After a few seconds, the display will show the length of the call.
- 3 When the other party answers, talk into the microphone.
- 4 To hang up, press [**OFF**] or place the cordless handset on the charger.



### Hands-free Digital Duplex Speakerphone

For best performance, please note the following:

- Talk alternately with the other party in a quiet room.
- If you or the other party has difficulty hearing, press [**▼**] to decrease the speaker volume.
- While talking using [**↶**], you can switch to a hands-free phone conversation by pressing [**☎**]. To switch back to the receiver, press [**↶**].

## To adjust the receiver/speaker volume while talking

3 levels (High, Medium and Low) are available for the receiver and 6 levels for the speaker.

Ex. Receiver volume: High  
Speaker volume: Level 6

To increase, press [**▲**]. To decrease, press [**▼**].



- The number of steps indicates the volume level.
- If you try to increase/decrease volume when it is at the maximum/minimum level, the cordless handset will beep 3 times.

## To dial after confirming the entered number

1. Enter a phone number.

3334444 ■

- If you misdial, press **[HOLD/CLEAR]**. Dial the correct number.
  - To cancel, press **[OFF]**.
2. Press **[↶]** or **[↷]**.
  3. To hang up, press **[OFF]** or place the cordless handset on the charger.

## To redial the last number dialed

Press **[↶]** or **[↷]**, then press **[PAUSE/REDIAL]**.

## To redial using the redial list (Memory Redial)

The last 5 phone numbers dialed with the cordless handset are stored in the redial list.

1. Press **[PAUSE/REDIAL]**.
  - The last number dialed is displayed with number 1.
2. Scroll to the desired number by pressing **[▼]** or **[▲]**.
  - You can also scroll down through the list by pressing **[PAUSE/REDIAL]**.
  - To exit the list, press **[OFF]**.
3. Press **[↶]** or **[↷]**.
  - **To erase an item**, scroll to the item then press **[HOLD/CLEAR]**.
  - If **"No items stored"** is displayed, the list is empty.

## Clarity Booster feature

This feature can improve sound clarity when the cordless handset is used in an area where there may be interference.

Press **[◀]** (**Booster**) while talking.

- **"Booster on"** will flash when the mode is on.
- To turn the feature off, press **[◀]** or **[▶]**.
- The feature will be off after hanging up or when putting a call on hold.
- Battery operating time will be shortened using this feature (p. 13).
- During a conference call (p. 50), only one cordless handset can use this feature.

## To put a call on hold

1. Press **[HOLD/CLEAR]**.
  - **"Press extension# to transfer"** is displayed.
  - To transfer the call to another extension, see page 48; to transfer to the Answering System to allow the outside party to leave a message, see page 60.
2. Press **[HOLD/CLEAR]** again.
  - **"Hold"** is displayed.

**To release the hold**, press **[↶]** or **[↷]**.

- The base unit user can also release the hold by lifting its handset or pressing **[DIGITAL SP-PHONE]**.
- Another cordless handset user can also release the hold by pressing **[↶]** or **[↷]**.
- If a call is kept holding for 6 minutes, an alarm tone will start to sound. After 4 additional minutes on hold the call will be disconnected.

# Answering Calls

---

When a call is received, the unit rings and “Incoming call” is displayed.

## Base Unit

---

- 1 Lift the handset or press **[DIGITAL SP-PHONE]**.
  - 2 Talk into the handset or **MIC** (microphone).
  - 3 To hang up, place the handset on the cradle or press **[DIGITAL SP-PHONE]**.
- 

## Handset

---

- 1 Press **[↶]** or **[↷]**.
    - You can also answer a call by pressing any button except **[▲]**, **[▼]**, **[◀]**, **[▶]**, **[OFF]** or the soft key **(PANIC)**.
  - 2 To hang up, press **[OFF]** or place the cordless handset on the charger.
- 

## Auto Talk

If you set the Auto Talk feature to ON (p. 23), you can answer a call by simply lifting the cordless handset off the charger without pressing **[↶]** or **[↷]**.

- To transfer the call to another person, see page 48.
- To transfer the call to the Answering System to allow the caller to leave a message, see page 60.
- When the ringer volume is set to OFF, the unit will not ring (p. 21).

# Caller ID Service

This unit is compatible with Caller ID services offered by your telephone company. If you subscribe to Caller ID, caller names and phone numbers will be displayed and recorded in the Caller List.

## How Caller ID information is displayed when a call is received

The base unit and the cordless handset display the caller's name and number after the first ring. In order to view the Caller ID information, please wait until the second ring to answer.

Example

ROBINSON, TINA 1-555-222-3333
----------------------------------

- After you answer the call, the display will show the length of the call.
- If the unit does not receive Caller ID information, one of the following will be displayed:

Display	Meaning
Out of area	The caller dialed from an area which does not provide Caller ID service.
Private caller	The caller requested not to send his/her information.
Long distance	The caller made a long distance call.

- Depending on radio communications with the base unit, the cordless handset may not display Caller ID information immediately after the first ring.
- If your unit is connected to a PBX which does not support Caller ID, you cannot access Caller ID service.
- Name display service may not be available in some areas. For further information, please contact your telephone company.
- If you subscribe to both Caller ID and Call Waiting with Caller ID service (CWID), when a second call is received while talking, a call waiting tone will be heard and the second caller's information will be displayed (p. 51).  
Contact your telephone company for details about availability in your area, and to verify that CWID service is activated on your telephone line.

# Using the Caller List

The base unit and the cordless handset can record Caller ID information from up to 50 different callers and store this information in each unit's Caller List. Caller List information is sorted by the most recent call to the oldest. When the 51<sup>st</sup> call is received, the information from the 1<sup>st</sup> call is deleted.

## Viewing the Caller List **Base Unit** **Handset**

If you have received new calls, "Received calls" will be displayed.

**1** Press [▼] or [▲] to enter the Caller List.

Ex. 10 missed calls

```
Caller list
10 missed calls
▼▲
▶=Phone book
```

**2** To search from the most recent call, press [▼].  
To search from the oldest call, press [▲].

Example

```
SMITH, JACK
1-555-333-4444
3:10P JUN.10
```

- The caller's name, number and the time and date of the call are displayed.

**3** *Base unit:* Press [STOP] to exit the list.

*Cordless handset:* Press [OFF] to exit the list.

- If "No items stored" is displayed, the Caller List is empty.
- If there is no name information for a caller, the display will only show the phone number.
- After viewing all of the missed call entries in the Caller List, "Received calls" will disappear.
- The base unit and each cordless handset have their own Caller Lists. If you viewed the Caller List on one unit, information in the other units will remain NEW and "√" will not be added.
- In step 1, you can go to the phone book by pressing [▶] (p. 42).
- If you do not press any buttons for 60 seconds, the unit will exit the Caller List.

### What "√" means

"√" indicates you have already viewed this calling information, or answered the call. If you play back a caller's message, "√" will be added to the information in the base unit Caller List.

```
SMITH, JACK
1-555-333-4444
3:10P JUN.10 √
```

### If a caller calls more than once

The number of times the same caller called is displayed ("×2" to "×9"). The date and time of the most recent call will be recorded. After viewing a caller's information, "×2" to "×9" will be replaced with "√".

Ex. Called 3 times.

```
TURNER, CINDY
1-555-456-7890
11:20A JAN.12 ×3
```

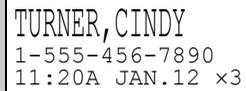
## Calling Back from the Caller List **Base Unit** **Handset**

1 Scroll to the desired caller by pressing [▼] or [▲].

2 *Base unit:* Lift the handset or press  
**[DIGITAL SP-PHONE].**

*Cordless handset:* Press [↶] or [↷].

- The phone number is dialed.



TURNER, CINDY  
1-555-456-7890  
11:20A JAN.12 x3

- In some cases, you may have to edit the number before dialing (p. 36).  
(Ex. You may have to delete “1” and the area code.)
- If a phone number is not displayed in the caller information, you cannot call back that caller from the Caller List.

# Using the Caller List

## Editing the Caller's Phone Number **Base Unit** **Handset**

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

Once you call back an edited number, this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call (**Caller ID Number Auto Edit**, p. 37).

- 1 Scroll to the desired caller by pressing **[▼]** or **[▲]**.



PARKER, FRED  
1-555-321-5555

- 2 *Base unit:* Press **[FUNCTION/EDIT]**.

*Cordless handset:*

Press the soft key (**EDIT**).

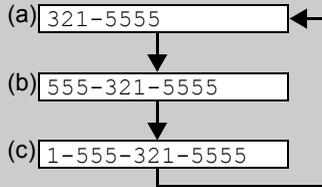
- Each time you press **[FUNCTION/EDIT]** or the soft key (**EDIT**), the number is rearranged into one of 3 patterns.

(a)

(b)  -

(c) 1 -  -

- The order in which patterns (a)–(c) are displayed depends on how the telephone number is displayed in step 1.



- 3 **To call the edited number:**

*Base unit:* Lift the handset or press **[DIGITAL SP-PHONE]**.

*Cordless handset:* Press **[↶]** or **[↷]**.

- If Caller ID Number Auto Edit feature is turned on (factory preset is on), phone numbers with the same area code as the number you edited will now be updated in the Caller List and each time you receive a call.
- If you wish to activate the Auto Edit feature without actually dialing the number you just edited;
  - for the base unit: you can place the handset on the cradle or press **[DIGITAL SP-PHONE]** again immediately after lifting the handset or pressing **[DIGITAL SP-PHONE]**.
  - for the cordless handset: you can press **[OFF]** immediately after pressing **[↶]** or **[↷]**.

**To save the edited number into the phone book, press **[▶]** 2 times.**

- If there is no name information, see “Storing Caller Information in the Phone Book” on page 38, from step 3.
- Even if the Auto Edit feature is turned on, phone numbers in the Caller List and the phone book will not be updated. To update the numbers in the phone book, it is necessary to manually store the phone numbers from Caller List to the phone book (p. 38).

## Caller ID Number Auto Edit **Base Unit** **Handset**

Once you call back an edited number (p. 36), this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call. For example, it can ignore the area code of calls originating from your area code, so that you can call these numbers from the Caller List without dialing the area code.

**To activate this feature**, you must edit a caller's phone number in the Caller List (p. 36) by selecting pattern (a), (b), or (c), then make a call to that number. Calls from numbers in that area code will be edited automatically. The unit can remember up to 4 area codes to be edited according to patterns (a) and (b).

When the 5th area code is edited, the oldest area code is reset to pattern (c).

Phone numbers from the 4 most recently edited area codes will be automatically edited.

You can turn on or off the feature on the base unit and the cordless handset separately. The factory preset is ON.

### To turn on or off Caller ID Number Auto Edit feature

**1** *Base unit:* Press **[FUNCTION/EDIT]**.

*Cordless handset:* Press **[CONF/FUNCTION]**.

**2** Press **[▶]** at "Telephone".

▶Telephone

**3** Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **[▶]**.

▶Initial setting

**4** Scroll to "Caller ID edit" by pressing **[▼]** or **[▲]**, then press **[▶]**.

▶Caller ID edit

**5** Select "off" or "on" by pressing **[▼]** or **[▲]**.

Auto edit :On

**6** *Base unit:* Press **[▶]** (Save), then press **[STOP]**.

*Cordless handset:* Press the soft key (**SAVE**), then press **[OFF]**.

- If you fail to reach your destination when making a call, the phone number you dialed might have an incorrect pattern. Edit the phone number with another pattern (p. 36).
- When this feature is turned off, the unit will still be able to display Caller ID, but incoming Caller ID numbers will not be automatically edited.
- If you move to another area, you may need to turn this feature off to erase the previously edited area codes. To use this feature again, turn it on and reprogram the area codes you want to edit once again.

# Using the Caller List

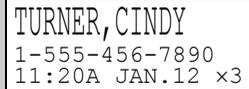
## Storing Caller Information in the Phone Book

### Base Unit Handset

Callers' names and phone numbers that are in the base unit or cordless handset Caller List can be stored in each unit's phone book.

- 1 Scroll to the desired caller by pressing [▼] or [▲].

- If the number requires editing, see page 36.



TURNER, CINDY  
1-555-456-7890  
11:20A JAN.12 x3

- 2 Press [▶].

- To stop storing, press [◀].



Save phone book?  
◀=No ▶=Yes

- 3 Press [▶] again.

- If there is no name information for the caller, "Enter name" will be displayed.
  - You can enter a name by performing the following steps:
    - (1) enter the name (p. 41),
    - (2) press [▼], and
    - (3) press [▶] (Save) on the base unit or press the soft key (SAVE) on the cordless handset.
  - If a name is not required, press [▼], then press [▶] (Save) on the base unit or press the soft key (SAVE) on the cordless handset.
- To continue storing other items, repeat from step 1.
- To exit the programming mode, press [STOP] on the base unit. For the cordless handset, press [OFF].

- You cannot store Caller List items in the phone book if a phone number is not displayed.

## Erasing Caller Information **Base Unit** **Handset**

### To erase a specific caller

**1** Scroll to the desired caller by pressing [**▼**] or [**▲**].

**2** *Base unit:* Press [**ERASE**].

*Cordless handset:*

Press [**HOLD/CLEAR**].

- “**clear**” is displayed.
- To erase other items, repeat from step 1.
- To exit the Caller List, press [**STOP**] on the base unit. For the cordless handset, press [**OFF**].

### To erase all entries

**1** Press [**▼**] or [**▲**] to enter the Caller List.

- Before erasing all items, make sure that “0 missed call” is displayed.

**2** *Base unit:* Press [**ERASE**].

*Cordless handset:*

Press [**HOLD/CLEAR**].

- To stop erasing, press [**◀**].

**3** *Base unit:* Press [**ERASE**] again.

*Cordless handset:*

Press [**HOLD/CLEAR**] again.

- “**All clear**” is displayed and all entries in your Caller List are erased.

# Phone Book

You can store up to 50 names and phone numbers in the base unit or the cordless handset phone book. All phone book items are sorted by the first word in alphabetical order. You can make a call by selecting a name or number from the phone book, and copy phone book items from a cordless handset to the base unit or another cordless handset (p. 44, 45).

## Storing Names and Numbers **Base Unit** **Handset**

You can store names and phone numbers in the base unit and the cordless handset phone books separately.

**1** *Base unit:* Press **[FUNCTION/EDIT]**.

*Cordless handset:* Press **[CONF/FUNCTION]**.

**2** Press **[▶]** at “**Telephone**”.



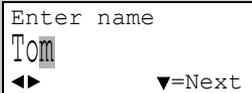
**3** Press **[▶]** at “**Save phone book**”.

• The display will show the number of stored items.



**4** Enter a name, up to 16 characters with the dialing buttons (0 to 9) (p. 41), then press **[▼]**.

• If a name is not required, press **[▼]** then go to step 5.



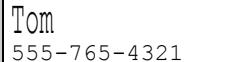
**5** Enter a phone number, up to 32 digits.

• To move the cursor, press **[◀]** or **[▶]**.  
• To delete a digit, press **[ERASE]** on the base unit or press **[HOLD/CLEAR]** on the cordless handset. To erase all of the digits, press and hold **[ERASE]** or **[HOLD/CLEAR]**.



**6** Press **[▼]**.

• If you want to change the name or number, press **[▲]** to reach the desired display and change it.



**7** *Base unit:* Press **[▶]** (**Save**).

*Cordless handset:* Press the soft key (**SAVE**).

• To continue storing other items, repeat from step 3.

**8** *Base unit:* Press **[STOP]**.

*Cordless handset:* Press **[OFF]**.

• If a pause is required for dialing, press **[REDIAL/PAUSE]** on the base unit or **[PAUSE/REDIAL]** on the cordless handset, in step 5. A pause stored in a phone number counts as one digit (p. 52).

## Selecting characters to enter names

Enter names using the dialing buttons. Press each button until the desired character is displayed.

- Pressing each button selects a character in the order shown below.

Keys	Characters	Keys	Characters
[1]	# & ' ( ) * , - . / 1	[6]	m n o M N O 6
[2]	a b c A B C 2	[7]	p q r s P Q R S 7
[3]	d e f D E F 3	[8]	t u v T U V 8
[4]	g h i G H I 4	[9]	w x y z W X Y Z 9
[5]	j k l J K L 5	[0]	0 Space
[◀]	Moves the cursor to the left.		
[▶]	Moves the cursor to the right. (To enter another character using the same number key, move the cursor to the next space.)		

**For example, to enter “Tom”:**

1. Press [8] four times.

2. Press [6] three times, then press [▶] to move the cursor.

3. Press [6] once.

## If you make a mistake while entering a name or number

1. Press [◀] or [▶] to move the cursor to the incorrect character.
2. *Base unit:* Press [ERASE] to delete the character.

*Cordless handset:* Press [HOLD/CLEAR] to delete the character.

- Each time you press [ERASE] or [HOLD/CLEAR], a character is erased.
- To erase all characters, press and hold [ERASE] or [HOLD/CLEAR].

3. Enter the correct character.

# Phone Book

## Dialing from the Phone Book **Base Unit** **Handset**

- 1 Press [◀] or [▶] to enter the phone book.
  - The display shows the number of stored items.

Phone book  
30 items  
▼▲ ▶=Caller list

- 2 Scroll to the desired item. To scroll down, press [▼]. To scroll up, press [▲].

Frank  
555-456-7890

Phone book items are sorted in the following order:

1	Alphabet letters (Alphabetical)
2	Space & ' ( ) , - . /
3	Numbers 0 to 9
4	# *
5	Telephone numbers (If no name is stored)

- 3 *Base unit:* Lift the handset or press [DIGITAL SP-PHONE].

*Cordless handset:* Press [↶] or [↷].

- The phone number is dialed.

- If “No items stored” is displayed in step 1, the phone book is empty.
- To exit the phone book, press [STOP] on the base unit or press [OFF] on the cordless handset.
- In step 1, you can go to the Caller List by pressing [▶] (p. 34).

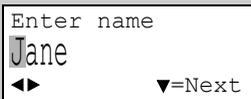
### To search for a name by initial

1. Press [◀] or [▶] to enter the phone book.
2. Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index table below).  
Ex. To find “Frank”, press [3] repeatedly until the first item under “F” is displayed.
3. Press [▼] repeatedly until the desired name is displayed.

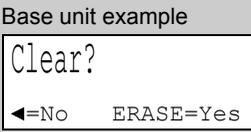
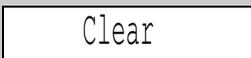
### Index table

Keys	Index	Keys	Index
[1]	Symbols, 1	[6]	M, N, O, 6
[2]	A, B, C, 2	[7]	P, Q, R, S, 7
[3]	D, E, F, 3	[8]	T, U, V, 8
[4]	G, H, I, 4	[9]	W, X, Y, Z, 9
[5]	J, K, L, 5	[0]	0, Space

## Editing an Item in the Phone Book **Base Unit** **Handset**

<p><b>1</b> Press [<b>◀</b>] or [<b>▶</b>], then scroll to the desired item by pressing [<b>▼</b>] or [<b>▲</b>].</p> <ul style="list-style-type: none"> <li>To search for the item by initial, see page 42.</li> </ul>	
<p><b>2</b> <i>Base unit:</i> Press [<b>FUNCTION/EDIT</b>]. <i>Cordless handset:</i> Press the soft key (<b>EDIT</b>).</p>	
<p><b>3</b> Edit the name (p. 41), then press [<b>▼</b>].</p> <ul style="list-style-type: none"> <li>If you do not need to change the name, press [<b>▼</b>] then go to step 4.</li> </ul>	
<p><b>4</b> Edit the phone number, then press [<b>▼</b>].</p> <ul style="list-style-type: none"> <li>If you do not need to change the number, press [<b>▼</b>] then go to step 5.</li> <li>To delete a digit, press [<b>ERASE</b>] on the base unit or press [<b>HOLD/CLEAR</b>] on the cordless handset. To erase all of the digits, press and hold [<b>ERASE</b>] or [<b>HOLD/CLEAR</b>].</li> <li>To move the cursor, press [<b>◀</b>] or [<b>▶</b>].</li> </ul>	
<p><b>5</b> <i>Base unit:</i> Press [<b>▶</b>] (<b>Save</b>). <i>Cordless handset:</i> Press the soft key (<b>SAVE</b>).</p>	
<p><b>6</b> <i>Base unit:</i> Press [<b>STOP</b>]. <i>Cordless handset:</i> Press [<b>OFF</b>].</p>	

## Erasing an Item in the Phone Book **Base Unit** **Handset**

<p><b>1</b> Press [<b>◀</b>] or [<b>▶</b>], then scroll to the desired item by pressing [<b>▼</b>] or [<b>▲</b>].</p> <ul style="list-style-type: none"> <li>To search for the item by initial, see page 42.</li> </ul>	
<p><b>2</b> <i>Base unit:</i> Press [<b>ERASE</b>]. <i>Cordless handset:</i> Press [<b>HOLD/CLEAR</b>].</p> <ul style="list-style-type: none"> <li>To stop erasing, press [<b>◀</b>].</li> </ul>	
<p><b>3</b> <i>Base unit:</i> Press [<b>ERASE</b>] again. <i>Cordless handset:</i> Press [<b>HOLD/CLEAR</b>] again.</p> <ul style="list-style-type: none"> <li>"Clear" is displayed.</li> </ul>	
<p><b>4</b> <i>Base unit:</i> Press [<b>STOP</b>]. <i>Cordless handset:</i> Press [<b>OFF</b>].</p>	

# Phone Book

## Copying Items in the Phone Book **Handset**

You can copy one or all phone book items from the cordless handset to the base unit, and between 2 cordless handsets (when the system has one or more additional cordless handsets, p. 27). The destination unit will save the items in its phone book.

- If an outside call is received during the phone book copy, copying will stop. You will need to re-send the item(s) later.
- After the copy has started, do not place your cordless handset on the charger until copying finishes, otherwise copying will stop.

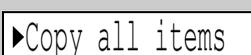
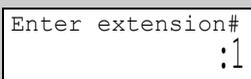
### To copy one phone book item to another unit

**Make sure the destination unit is not in use.**

1 Press [CONF/FUNCTION].	
2 Press [▶] at "Telephone".	▶Telephone
3 Scroll to "Copy phone book" by pressing [▼] or [▲], then press [▶].	▶Copy phone book
4 Press [▶] at "Copy 1 item".	▶Copy 1 item
5 Select the destination extension number by pressing [▼] or [▲]. ("0" for the base unit, "1 to 3" for the cordless handset) <ul style="list-style-type: none"><li>• You can also select the extension number by pressing [0], [1] to [3].</li></ul>	Enter extension# :1 ▼▲ ▶=Next
6 Press [▶].	Select item
7 Scroll to the desired item by pressing [▼] or [▲]. <ul style="list-style-type: none"><li>• To search for the item by initial, see page 42.</li></ul>	
8 Press the soft key ( <b>SEND</b> ). <ul style="list-style-type: none"><li>• When the item has been copied, "Complete" is displayed.</li><li>• The destination unit displays "Phone book Receiving" then "Phone book Received".</li><li>• To continue copying other items, repeat from step 7.</li></ul>	Complete
9 Press [OFF].	

## To copy all of the items in your phone book to another unit

Make sure the destination unit is not in use.

<p><b>1</b> Press <b>[CONF/FUNCTION]</b>.</p>	
<p><b>2</b> Press <b>[▶]</b> at “Telephone”.</p>	
<p><b>3</b> Scroll to “Copy phone book” by pressing <b>[▼]</b> or <b>[▲]</b>, then press <b>[▶]</b>.</p>	
<p><b>4</b> Scroll to “Copy all items” by pressing <b>[▼]</b> or <b>[▲]</b>, then press <b>[▶]</b>.</p>	
<p><b>5</b> Select the destination extension number by pressing <b>[▼]</b> or <b>[▲]</b>. (“0” for the base unit, “1 to 3” for the cordless handset)</p> <ul style="list-style-type: none"> <li>You can also select the extension number by pressing <b>[0]</b>, <b>[1]</b> to <b>[3]</b>.</li> </ul>	
<p><b>6</b> Press the soft key (<b>SEND</b>).</p> <ul style="list-style-type: none"> <li>When all items have copied, “Complete” is displayed.</li> <li>The destination unit displays “Phone book Receiving” then “Phone book Received”.</li> <li>To continue copying items to another extension, repeat from step 4.</li> </ul>	<p>Ex. Copying 1st item out of the 10 items</p> 
<p><b>7</b> Press <b>[OFF]</b>.</p>	

- You can exit the phone book copying mode by pressing **[OFF]**.

# Intercom

Intercom can be made between the base unit and a cordless handset, and between 2 cordless handsets (when the system has one or more additional cordless handsets, p. 27). You can page all cordless handsets from the base unit at once.

- Using this feature, you can also locate a misplaced cordless handset.

## Making Intercom Calls

### Base Unit

<p><b>1</b> Press <b>[LOCATOR/INTERCOM/TRANSFER]</b>.</p> <ul style="list-style-type: none"><li>• The LOCATOR/INTERCOM/TRANSFER indicator and the DIGITAL SP-PHONE indicator light.</li></ul> <p>To switch from the speakerphone to the handset, lift it off the cradle.</p>	<div style="border: 1px solid black; padding: 5px; width: fit-content;">Press extension# to call</div>
<p><b>2</b> To page all cordless handsets, press <b>[0]</b>. To page a cordless handset, press its extension number (<b>[1]</b> to <b>[3]</b>).</p> <ul style="list-style-type: none"><li>• The cordless handset(s) will ring for 1 minute.</li><li>• To stop paging, place the handset on the cradle, or if using the speakerphone, press <b>[DIGITAL SP-PHONE]</b> or <b>[LOCATOR/INTERCOM/TRANSFER]</b>.</li></ul>	<p>Ex. Calling all Handsets</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;">Paging [ALL]</div> <p>Ex. Calling Handset 1</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;">Calling HS[1]</div>
<p><b>3</b> When the paged party answers, talk into the <b>MIC</b> or handset.</p>	<div style="border: 1px solid black; padding: 5px; width: fit-content;">Intercom 00-00-05 ■01</div>
<p><b>4</b> To disconnect the intercom, place the handset on the cradle, or if using the speakerphone, press <b>[DIGITAL SP-PHONE]</b> or <b>[LOCATOR/INTERCOM/TRANSFER]</b>.</p>	

### Handset

<p><b>1</b> Press <b>[HOLD] (INTERCOM)</b>.</p>	<div style="border: 1px solid black; padding: 5px; width: fit-content;">Press extension# to call</div>
<p><b>2</b> To page the base unit, press <b>[0]</b>. To page another cordless handset, press the extension number (<b>[1]</b> to <b>[3]</b>).</p> <ul style="list-style-type: none"><li>• The paged unit will ring for 1 minute.</li><li>• To stop paging, press <b>[OFF]</b>.</li></ul>	<p>Ex. Calling Base unit</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;">Calling Base</div> <p>Ex. Calling Handset 2</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;">Calling HS[2]</div>
<p><b>3</b> When the paged party answers, start talking.</p> <ul style="list-style-type: none"><li>• You can switch to the speaker by pressing <b>[🔊]</b>. To switch back to the receiver, press <b>[🔇]</b>.</li></ul>	<div style="border: 1px solid black; padding: 5px; width: fit-content;">Intercom 00-00-05 ■01</div>
<p><b>4</b> To disconnect the intercom, press <b>[OFF]</b> or place the cordless handset on the charger.</p>	

## During an intercom call:

- If you have difficulty hearing while using the speakerphone on the base unit or cordless handset, decrease the speaker volume by pressing [▼].
- If an incoming call is being received, you will hear 2 tones (incoming call tone, p. 52).  
To answer the call;
  - if using the base unit handset, place it on the cradle then lift it up.
  - if using the base unit speakerphone, press **[DIGITAL SP-PHONE] 2 times**.
  - if using the cordless handset, press **[OFF]** and press [↶] or [↷].

## Answering Intercom Calls

### Base Unit

When an intercom call is being received, the base unit rings and the LOCATOR/INTERCOM/TRANSFER indicator flashes. The display shows the calling extension number.

- 1** Lift the handset off the cradle, or press **[LOCATOR/INTERCOM/TRANSFER]** or **[DIGITAL SP-PHONE]**.
- 2** To disconnect the intercom, place the handset on the cradle, or if using the speakerphone press **[DIGITAL SP-PHONE]** or **[LOCATOR/INTERCOM/TRANSFER]**.

### Handset

When an intercom call is being received, the cordless handset rings and the display shows the calling extension number.

- 1** Press [↶], [↷] or **[HOLD] (INTERCOM)**.
  - You can also answer the call by pressing any button except [▲], [▼], [◀], [▶], [OFF] or the soft key (**PANIC**).
- 2** To disconnect the intercom, press **[OFF]** or place the cordless handset on the charger.

### Auto Talk

If you set the Auto Talk feature to ON (p. 23), you can answer a call by lifting the cordless handset off the charger without pressing [↶], [↷] or **[HOLD] (INTERCOM)**.

- When the ringer volume is off (p. 21), the base unit and the cordless handset will ring at the LOW level for intercom calls.
- You cannot change the cordless handset ringer tone for intercom calls.
- When the base unit user pages all cordless handsets, only the cordless handset user who answers first can talk with the base unit user.

# Transferring a Call **Base Unit** **Handset**

You can transfer an outside call between the base unit and the cordless handset, or between 2 cordless handsets (when the system has one or more additional cordless handsets, p. 27).

## From the base unit to the cordless handset

### 1 *Base unit:*

(1) During a call, press

**[LOCATOR/INTERCOM/TRANSFER]**.

- If the line is on hold, release the hold (p. 29) before pressing **[LOCATOR/INTERCOM/TRANSFER]**.

Press extension#  
to transfer  
0-3=Extension  
9=Answering

(2) To page a cordless handset, press its extension number (**[1]** to **[3]**). To page all cordless handsets, press **[0]**.

(3) Wait for the cordless handset user to answer, then you can announce the transfer.

- If the paged party does not answer, press **[LOCATOR/INTERCOM/TRANSFER]** to return to the outside call.

2 *Cordless handset:* Press **[↶]**, **[☎]** or **[HOLD] (INTERCOM)** to answer the page.

- You can also answer the call by pressing any button **[▲]**, **[▼]**, **[◀]**, **[▶]**, **[OFF]** or the soft key **[PANIC]**.

3 *Base unit:* To complete the transfer, place the handset on the cradle, or if using the speakerphone press **[DIGITAL SP-PHONE]**.

- When the base unit user calls all cordless handsets, only the cordless handset user who answers first can take the transferred call.

## From the cordless handset to the base unit

### 1 *Cordless handset:*

(1) During a call, press **[HOLD] (TRANSFER)**.

- The call is put on hold.

(2) To page the base unit, press **[0]**.

(3) Wait for the paged party to answer, then you can announce the transfer.

- If the paged party does not answer, press **[↶]** or **[☎]** to return to the outside call.

Press extension#  
to transfer  
0-3=Extension  
9=Answering

2 *Base unit:* Lift the handset or press **[DIGITAL SP-PHONE]** or **[LOCATOR/INTERCOM/TRANSFER]** to answer the page.

3 *Cordless handset:* To complete the transfer, press **[OFF]**.

## From a cordless handset to another cordless handset (when the system has one or more additional cordless handsets)

1. During a call, press **[HOLD] (TRANSFER)**, then page another cordless handset by pressing its extension number (**[1]** to **[3]**).

# Transferring a Call

2. Wait for the paged party to answer, then you can announce the transfer.

- The paged handset user can answer by pressing [**↶**], [**☎**] or [**HOLD**] (**INTERCOM**).

3. To complete the transfer, press [**OFF**].

- Any user can take a transferred call by pressing [**↶**], [**☎**] or [**DIGITAL SP-PHONE**], or by lifting the base unit handset.
- If the called extension is in use in step 1, the display will show “**Busy**” then “**Hold**”. Press [**DIGITAL SP-PHONE**], [**↶**] or [**☎**] to return to the outside call.

To transfer the call to another extension, repeat from step 1.

OR

To transfer the call to the Answering System to allow the caller to leave a message, press [**LOCATOR/INTERCOM/TRANSFER**] or [**HOLD**] (**INTERCOM**), then press [**9**] to transfer the caller to the Answering System (p. 60). (The caller will hear the greeting and can leave a message after the beep.)

## Quick call transfer

You can transfer a call without waiting for the paged party to answer.

*Base unit:* During a call, press [**LOCATOR/INTERCOM/TRANSFER**], and press the extension number ([**1**] to [**3**]) or press [**0**] to page all extensions, then place the handset on the cradle or press [**DIGITAL SP-PHONE**] to hang up.

*Cordless handset:* During a call, press [**HOLD**] (**TRANSFER**) and press the extension number ([**0**] for the base unit, [**1**] to [**3**] for the cordless handset), then press [**OFF**] to hang up.

- The call will be transferred directly.
- The paged party can take the transferred call by pressing [**↶**], [**☎**] or [**DIGITAL SP-PHONE**], or by lifting the base unit handset.
- After the paged party answers, the transfer is complete.
- If the paged party does not answer:
  - for the base unit, lift the handset or press [**DIGITAL SP-PHONE**] to return to the outside call.
  - for the cordless handset, press [**↶**] or [**☎**] to return to the outside call.
- If the paged party does not answer within 60 seconds after you hang up, your phone will ring and the call will be returned to your phone. You may speak to the caller again by lifting the base unit handset or pressing [**DIGITAL SP-PHONE**], [**↶**] or [**☎**].

If you do not answer the call within 4 minutes, the call will be disconnected. After speaking to the caller, you may also transfer the caller to the Answering System by performing the following steps:

- (1) Press [**LOCATOR/INTERCOM/TRANSFER**] on the base unit or [**HOLD**] (**TRANSFER**) on the cordless handset.
- (2) Press [**9**] to transfer the caller to the Answering System (p. 60). (The caller will hear the greeting and can leave a message after the beep.)

# Conference Calls

While you are talking with an outside caller, you can call the base unit or the cordless handset to make a conference call. When the system has one or more additional cordless handsets (p. 27), you can make a conference call with your cordless handset and another cordless handset.

## Base Unit

- 1 During a call, press **[LOCATOR/INTERCOM/TRANSFER]**.
  - The call is put on hold.
- 2 To page the cordless handset, press the extension number (**[1]** to **[3]**).
- 3 When the paged party answers, press **[CONF]** on your unit to make a conference call.

## Handset

- 1 During a call, press **[HOLD] (INTERCOM)**.
  - The call is put on hold.
- 2 To page the base unit, press **[0]**. To page another cordless handset, press the extension number (**[1]** to **[3]**).
- 3 When the paged party answers, press **[CONF/FUNCTION]** on your unit to make a conference call.

- To leave the conference, place the base unit handset, or press **[DIGITAL SP-PHONE]** on the base unit or press **[OFF]** on the cordless handset. The 2 other parties can continue the conversation.
- During a conference, the outside call can be placed on hold by pressing **[HOLD]** on the base unit or **[HOLD] (INTERCOM)** on the cordless handset. Internal communications between extensions are not suspended. Only the person who placed the call on hold can resume the full conference; press **[CONF]** on the base unit or **[CONF/FUNCTION]** on the cordless handset.
- One more extension can join the conference call if another extension is not being used. To join the conference call, press **[↶]**, **[↷]** or **[DIGITAL SP-PHONE]** or lift the base unit handset.

## Call Share

This feature allows the base unit or the cordless handset to join the existing outside call.

### To join a conversation (Call Share) **Base Unit** **Handset**

*Base unit:* Lift the handset off the cradle or press **[DIGITAL SP-PHONE]**.

*Cordless handset:* Press **[↶]** or **[↷]**.

- “Conference” is displayed.

# Special Features

## Muting Your Conversation **Base Unit** **Handset**

During a call, you can mute your phone so the other party cannot listen to you. When muting your conversation, you can hear the other party.

*Base unit:* Press **[MUTE]**.

- The MUTE indicator lights.
- “Mute” will be displayed for a few seconds.
- **To release the mute**, press **[MUTE]** again.
- If you press **[DIGITAL SP-PHONE]** or lift the handset to switch between the speaker and handset, the mute will be released.

*Cordless handset:* Press the soft key **(MUTE)**.

- “Mute” will be displayed for a few seconds and “**MUTE**” will flash.
- **To release the mute**, press the soft key **(MUTE)** again.
- If you press **[↶]** or **[↷]** to switch between the receiver and speaker, the mute will be released.

## Temporary Tone Dialing

### (For Rotary or Pulse Service Users) **Base Unit** **Handset**

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

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the dialing mode will return to pulse.

## For Call Waiting Service Users **Base Unit** **Handset**

Press **[FLASH/CALL WAIT]** if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **[FLASH/CALL WAIT]** again.
- Call Waiting service cannot be used when the first call is put on hold or the Answering System is responding to a call.
- If this function does not operate properly, consult your telephone company for details.

## Call Waiting Caller ID display **Base Unit** **Handset**

If you subscribe to both Caller ID and Call Waiting with Caller ID services (CWID), when a second call is received while talking, the second caller’s information will be displayed. After you hear a call waiting tone while talking, the display shows the caller’s name with the phone number and “waiting”.

BROWN, NANCY
1-555-666-7777
----Waiting----

- Contact your telephone company for details about availability in your area, and to verify that CWID service is activated on your telephone line.
- The caller’s information will only be shown on the display of the unit which is on the outside call.

# Special Features

---

## Using the PAUSE Button (For PBX Line/Long Distance Calls) **Base Unit** **Handset**

We recommend you press **[REDIAL/PAUSE]** on the base unit or **[PAUSE/REDIAL]** on the cordless handset if a pause is required for dialing with a PBX or to make a long distance call.

Ex. Line access number **[9]** (PBX)

**[9]** → **[REDIAL/PAUSE]** or **[PAUSE/REDIAL]** →

- Pressing **[REDIAL/PAUSE]** or **[PAUSE/REDIAL]** once creates a 3.5 second pause. This prevents misdialing when you dial after confirming the entered number (p. 29, 31) or dial a stored number (p. 42).
- Pressing **[REDIAL/PAUSE]** or **[PAUSE/REDIAL]** more than once increases the length of the pause between numbers.

## Incoming Call Tone **Base Unit** **Handset**

During an intercom call, you can be informed of incoming calls by 2 tones. If you set incoming call tone to ON, this incoming call tone will be heard for as long as the line is ringing. To bypass the incoming call tone, set it to OFF. To set the incoming call tone to sound 2 times, set to "2". The factory preset is "2". You can set the incoming call tone on the base unit or the cordless handset separately.

---

<b>1</b> <i>Base unit:</i> Press <b>[FUNCTION/EDIT]</b> . <i>Cordless handset:</i> Press <b>[CONF/FUNCTION]</b> .	
<b>2</b> Press <b>[▶]</b> at "Telephone".	<input type="text" value="▶Telephone"/>
<b>3</b> Scroll to "Ringer setting" by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	<input type="text" value="▶Ringer setting"/>
<b>4</b> Scroll to "Incoming call" by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	<input type="text" value="▶Incoming call"/>
<b>5</b> Select "On", "Off" or "2" by pressing <b>[▼]</b> or <b>[▲]</b> .	<input type="text" value="Incoming call tone :2"/>
<b>6</b> <i>Base unit:</i> Press <b>[▶]</b> (save), then press <b>[STOP]</b> . <i>Cordless handset:</i> Press the soft key ( <b>SAVE</b> ), then press <b>[OFF]</b> .	

---

## FLASH Button **Base Unit** **Handset**

Pressing **[FLASH/CALL WAIT]** also allows you to use special features of your host PBX such as transferring an extension call or accessing optional telephone services such as call waiting.

- Pressing **[FLASH/CALL WAIT]** cancels the Temporary Tone Dialing mode or the mute (p. 51).

## Selecting the flash time (use either **Base Unit** or **Handset**)

The flash time depends on your telephone exchange or host PBX.

You can select the following flash times: “700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)”. The factory preset is “700 ms”.

- The setting should stay at 700 ms unless pressing **[FLASH/CALL WAIT]** fails to pick up the Call Waiting call.
- If the unit is connected via a PBX, PBX functions (transferring a call etc.) might not work correctly. Consult your PBX supplier for the correct settings.

### Base Unit

1 Press <b>[FUNCTION/EDIT]</b> .	
2 Press <b>[▶]</b> at “Telephone”.	▶Telephone
3 Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Initial setting
4 Scroll to “Set tel line” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Set tel line
5 Scroll to “Set flash time” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Set flash time
6 Select the flash time by pressing <b>[▼]</b> or <b>[▲]</b> .	Set flash time :700ms
7 Press <b>[▶]</b> (save), then press <b>[STOP]</b> .	

### Handset

Press **[CONF/FUNCTION]**, and follow steps 2 to 6 above, using the cordless handset. Press the soft key **(SAVE)**, then press **[OFF]**.

# Automatic Answering Operation

The Answering System allows the unit to answer calls with a greeting message. Callers can then leave a message. While recording, “Answering” and “**IN USE**” will flash on the base unit.



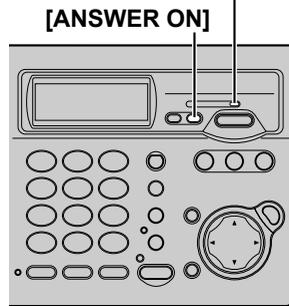
- The total recording time of all messages (greeting and incoming) is **about 12 minutes**. If messages are recorded in noisy rooms, the time may be shortened by up to 3 minutes.
- To select the caller’s recording time, see page 25.
- A maximum of 64 messages (including the greeting message) can be recorded.

## Setting the Unit to Answer Calls **Base Unit**

Press [**ANSWER ON**] to turn on the Answering System.

- The indicator lights and the unit announces “Answer set” and the current day and time.
- The unit will announce the remaining recording time if it is less than 5 minutes.

ANSWER ON Indicator



- When no recording time is available, you will need to erase any unnecessary messages before new messages can be recorded (p. 59). The unit can indicate that memory is full in the following ways:
  - “**MESSAGE FULL**” will flash on the base unit and the ANSWER ON indicator will flash rapidly.
  - The unit will announce “Memory full” when you press [**ANSWER ON**] or press and hold [**GREETING**], and after playing back messages or recording a message.
- If you do not want the unit to answer calls, press [**ANSWER ON**] again to turn off the Answering System. The indicator light goes out and “Answer off” is heard.
- You can also turn on the Answering System remotely from the cordless handset (p. 57) or an outside phone (p. 64).
- If you subscribe to Caller ID (p. 33), Caller ID information automatically adjusts the date and time when a call is received, provided you have already set the date and time manually (p. 18).

# Automatic Answering Operation

## Monitoring incoming calls

While a caller is leaving a message, you can monitor it through the base unit speaker.

- To increase the speaker volume, press [▲]. To decrease, press [▼].

To answer the call with the base unit, lift the handset off the cradle or press [DIGITAL SP-PHONE]. For the cordless handset, press [↶] or [↷]. The unit will stop recording.

## To turn the Call Monitoring feature off on the base unit

If this feature is not required, turn it off.

1. Press [FUNCTION/EDIT].
2. Press [▶] at "Telephone".
3. Scroll to "Initial setting" by pressing [▼] or [▲], then press [▶].
4. Scroll to "Set answering" by pressing [▼] or [▲], then press [▶].
5. Scroll to "Call monitoring" by pressing [▼] or [▲], then press [▶].
6. Select "off" by pressing [▼] or [▲].
7. Press [▶] (Save), then press [STOP].

- To turn this feature on, select "on" in step 6.

# Listening to Messages

**Voice Day/Time Stamp:** During playback, the unit will announce the day and time when each message was recorded (p. 18).

## Using the Base Unit **Base Unit**

If the ANSWER ON indicator and “**MESSAGES**” flash, new messages have been recorded.

- If there are only old messages, “**MESSAGES**” will be displayed but will not flash. If there are no messages, “**MESSAGES**” will not be displayed.



## To play back messages

Press **[PLAYBACK]**.

Ex. Received 10 messages

- The display shows the total number of recorded messages.
- The unit announces the number of new messages and only new messages are played back.
- When you have no new messages, the unit announces “No new messages. All message playback” and plays back all messages.
- During playback, the display shows the message number.
- At the end of the last message, “End of final message” is heard. The unit will announce the remaining recording time if it is less than 5 minutes.
- When there are no messages, the unit announces “No messages”.
- If a call is being received during playback, the unit rings and playback stops. To answer the call, lift the handset or press **[DIGITAL SP-PHONE]**. For playback, start again from the beginning after hanging up.



## Using the Cordless Handset (Remote Operation) **Handset**

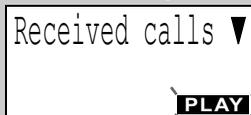
If “**PLAY**” flashes, there are new messages. If there are only old messages or no messages, “**PLAY**” will be displayed but will not flash.

### To play back messages

#### 1 Press the soft key (**PLAY**).

- A beep sounds and the number of new messages will be announced from the speaker, and new messages will be played.
- To switch to the receiver, press [**↶**]. To switch back to the speaker, press [**↷**].
- When you have no new messages, the unit announces “No new messages. All message playback” and plays back all messages.
- To play all messages, press [**5**].
- If you do not press any buttons, the voice menu will start (see below).

Ex. New messages exist.



#### 2 To end remote operation, press [**OFF**].

- “**PLAY**” will not disappear after listening to messages.
- During playback, the display shows the message number.
- At the end of the last message, “End of final message” is heard. The unit will announce the remaining recording time if it is less than 5 minutes.
- When there are no messages, the unit announces “No messages”.
- If a call is being received during playback, the unit rings and playback stops. To answer the call, press [**↶**] or [**↷**]. For playback, start again from the beginning after hanging up.

### Voice menu

If you do not press any buttons at the end of the last message and hear “End of final message”, the cordless handset will start the following voice menu.

“Press 4 to play back new messages. Press 5 to play back all messages.”

- You can press buttons for other playback options (p. 58) even if the voice menu has started.
- If you do not press any button within 10 seconds after the voice menu, the cordless handset will exit remote operation.

### To turn the Answering System on

Press [**8**] during playback.

To turn the Answering System off, press [**0**] during playback.

# Listening to Messages

## During playback **Base Unit** **Handset**

<b>To adjust the speaker volume</b>	To increase, press [ <b>▲</b> ]. To decrease, press [ <b>▼</b> ]. <ul style="list-style-type: none"><li>You can also adjust the receiver volume on the cordless handset.</li></ul>
<b>To repeat a message</b>	<i>Base unit:</i> Press [ <b>◀</b> ]. <i>Cordless handset:</i> Press [ <b>◀</b> ] or [ <b>1</b> ]. <ul style="list-style-type: none"><li>If you press within 5 seconds of playback, the previous message will be played.</li></ul>
<b>To skip a message</b>	<i>Base unit:</i> Press [ <b>▶</b> ]. <i>Cordless handset:</i> Press [ <b>▶</b> ] or [ <b>2</b> ].
<b>To stop playback</b>	<i>Base unit:</i> Press [ <b>STOP</b> ]. <ul style="list-style-type: none"><li>To resume playback, press [<b>PLAYBACK</b>].</li><li>If you do not press any button for 60 seconds or if you press [<b>STOP</b>] again, the playback mode will be canceled.</li></ul> <i>Cordless handset:</i> Press [ <b>9</b> ]. <ul style="list-style-type: none"><li>If you do not press any button within 15 seconds after stopping playback, the voice menu will start (p. 57).</li></ul>

### **For Caller ID service users** (p. 33)

During playback, the display shows the name and/or number of the caller whose message is being played.

#### **To call back the displayed number:**

*Base unit:* Lift the handset off the cradle or press [**DIGITAL SP-PHONE**] while the number is displayed.

*Cordless handset:* Press the soft key (**DIAL**) while the number is displayed.

- The unit stops playback and dials the phone number.
- If you need to edit the phone number to call back, see page 36.
- After listening to new incoming messages, “√” will be added to the call entries in the base unit Caller List, but those of the cordless handset Caller List will still remain NEW (p. 34).

# Erasing Messages

The unit will announce the remaining recording time after playback, if it is less than 5 minutes. New messages cannot be recorded when:

- “Memory full” is heard.
  - “**MESSAGE FULL**” is displayed on the base unit.
  - ANSWER ON indicator flashes rapidly (only when the Answering System is on).
- Erase unnecessary messages. We recommend you erase unnecessary messages after each playback.

## Erasing a specific message

### Base Unit

Press **[ERASE]** while the message you want to erase is being played.

- A beep will sound and the unit will continue to play the next message.
- To end playback, press **[STOP]** 2 times.

### Handset

Press **[\*][4]** while the message you want to erase is being played.

- A beep will sound and the unit will continue to play the next message.
- To end remote operation, press **[OFF]**.

## Erasing all messages

All recorded messages, except the greeting message, can be erased at one time.

### Base Unit

- 1 Press **[ERASE]** while the base unit is not being used.
  - “To erase all messages, press ERASE again” is heard.

Press ERASE  
to erase all  
messages

- 2 Within 10 seconds, press **[ERASE]** again.
  - A long beep will sound and “No messages” will be heard.

All erase

**MESSAGES**

### Handset

1. Press the soft key (**PLAY**).
2. Press **[\*][5]** to erase all messages.
  - A long beep will sound and “No messages” will be heard.
  - To end remote operation, press **[OFF]**.

# Transferring a Call to the Answering System

## Base Unit Handset

When you answer a call and the caller wants to talk to someone who is not available, you can transfer the caller to the Answering System, where the caller can leave a message.

Tell the outside caller you will transfer him or her to the Answering System.

### 1 Base unit:

Press [**LOCATOR/INTERCOM/TRANSFER**].

*Cordless handset:*

Press [**HOLD**] (**TRANSFER**).

- The call is put on hold.

Press extension#  
to transfer  
0-3=Extension  
9=Answering

### 2 Press [**9**] to hang up the call.

After you press [**9**]:

The caller will hear the greeting (p. 24), then he or she can leave a message after the beep.

- Even if you subscribe to Caller ID service (p. 33), Caller ID information will not be displayed while the caller is recording a message or the message is being played. The Caller ID information will be recorded in the Caller List (p. 34) if the transferred call is an incoming call.

### Interrupting remote operation

If another user is calling the unit from a remote location to operate the Answering System, and you mistakenly answer the call, you do not have to hang up the call. Go to steps 1 and 2 above.

- The user can then operate the Answering System, by entering the remote code (see “Remote Operation from a Touch Tone Phone” on page 61).

# Remote Operation from a Touch Tone Phone

While outside, you can operate the Answering System from any touch tone phone. A synthesized voice menu will guide you through the Answering System (p. 63).

- To skip the voice menu and operate the unit directly, see page 64.



## Summary of remote operation

Call your unit from a touch tone phone.



Enter your remote code (p. 62) during or after the greeting.

- The number of new messages is heard, and new messages will be played.\*



After 3 seconds, the voice menu will start (p. 63).  
Follow the menu or enter the direct commands (p. 64).



To end remote operation, hang up.

- The unit will announce the remaining recording time after playback, if it is less than 5 minutes.
- The messages are saved.

\* If the unit announces “No new messages”, there are only old messages. If “No messages” is announced, there are no messages.

# Remote Operation from a Touch Tone Phone

## Remote Code **Base Unit**

The remote code prevents unauthorized people from accessing your unit and listening to your messages. Choose any **2-digit number (00–99)** for your remote code.

The factory preset remote code is “11”. If you do not program your own remote code, you can use “11”.

<b>1</b> Press <b>[FUNCTION/EDIT]</b> .	
<b>2</b> Press <b>[▶]</b> at “Telephone”.	▶Telephone
<b>3</b> Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Initial setting
<b>4</b> Scroll to “Set answering” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Set answering
<b>5</b> Scroll to “Remote code” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Remote code
<b>6</b> Enter a <b>2-digit remote code (00–99)</b> .	Remote code :11 ▶=Save
<b>7</b> Press <b>[▶]</b> (Save).	
<b>8</b> Press <b>[STOP]</b> .	

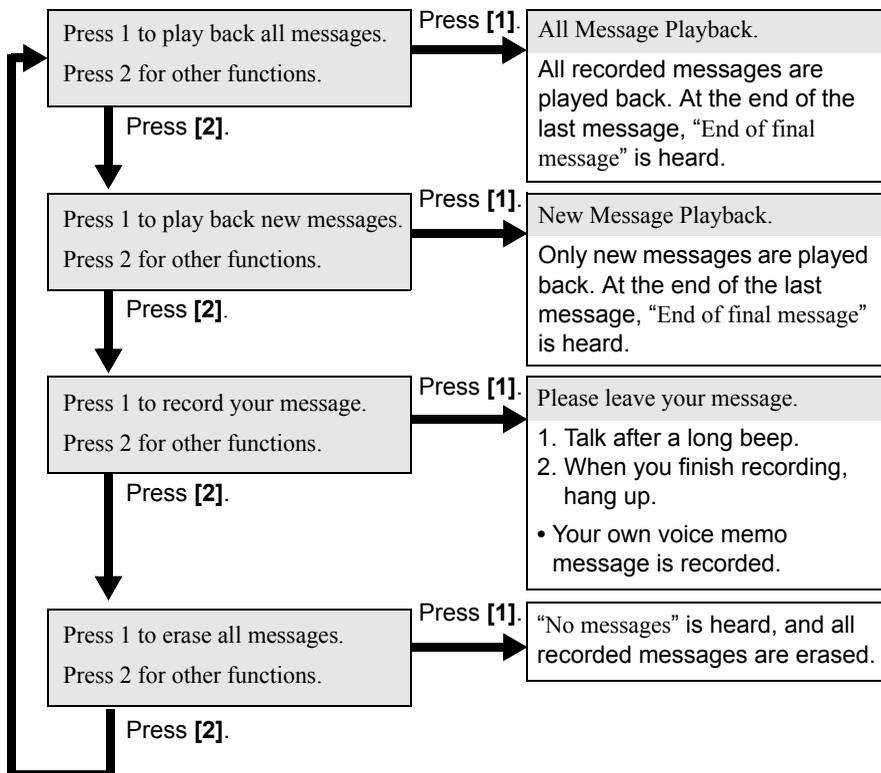
**To check the remote code**, repeat steps 1 to 5.

- The remote code is displayed. When finished, press **[STOP]**.

# Remote Operation from a Touch Tone Phone

## Voice Menu

The shaded parts are voice prompts.



- 3 seconds after playback, the voice menu will start again from the beginning.
- The unit will announce the remaining recording time after playback if it is less than 5 minutes.
- If you hear "Memory full" after playback, erase unnecessary messages (p. 64).
- If you do not press any buttons within 10 seconds after a voice prompt, "Thank you for your call" will be heard and the call will be disconnected.

# Remote Operation from a Touch Tone Phone

---

## Direct Remote Operation

Once you have entered the remote code (p. 62), you can also control your unit by direct commands instead of using the voice menu. To end the remote operation, hang up at anytime.

### Direct commands

<b>[4]:</b>	Plays back new messages.	<b>[*] [4]:</b>	Erases the current message. <ul style="list-style-type: none"><li>• A beep will sound and the next message will be played.</li></ul>
<b>[5]:</b>	Plays back all messages.	<b>[*] [5]:</b>	Erases all messages. <ul style="list-style-type: none"><li>• A long beep will sound, and "No messages" will be heard.</li></ul>
<b>[1]:</b>	Repeats the current message. <ul style="list-style-type: none"><li>• If pressed within the first 5 seconds of playback, the previous message will be played.</li></ul>	<b>[0]:</b>	Turns off the Answering System. <ul style="list-style-type: none"><li>• The unit hangs up.</li></ul>
<b>[2]:</b>	Skips the current message.		
<b>[9]:</b>	Stops the current operation. <ul style="list-style-type: none"><li>• To resume operation, enter a direct command within 15 seconds, or the voice menu will start (p. 63).</li></ul>		

## Turning on the Answering System

Call your unit and wait for 12 rings.

- The unit will answer and the greeting will be played.
- The Answering System will turn on. Hang up or enter the remote code for other options.
- When turning on the Answering System using a rotary or pulse service telephone, you cannot enter the remote code for other options.

## Skipping the greeting

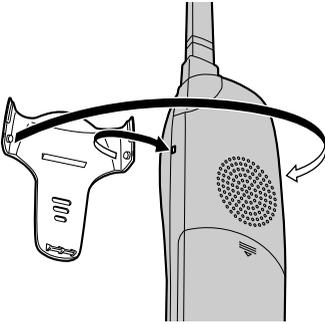
After calling your unit, press [\*] during the greeting.

- The unit skips the rest of the greeting and you can start recording your message after the long beep.

# Belt Clip

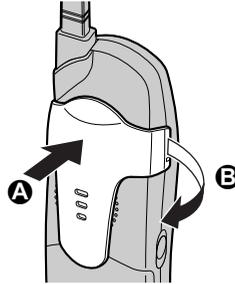
You can hang the cordless handset on your belt or pocket using the belt clip.

## To attach the belt clip



## To remove the belt clip

While pressing the top of the clip (A), pull the right edge in the direction of the arrow (B).

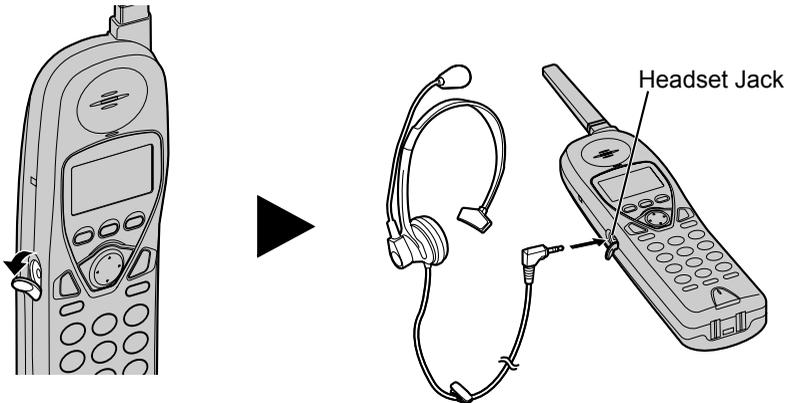


# Optional Headset

Connecting an optional headset to the cordless handset allows hands-free phone conversation. Please use only a Panasonic KX-TCA60, KX-TCA86, KX-TCA88, KX-TCA88HA, KX-TCA91, KX-TCA92 or KX-TCA98 headset. To order, call the accessories telephone number on page 2.

## Connecting an optional headset

Open the headset jack cover, and insert the headset plug into the headset jack as shown below.



• Headset sold separately. Model shown here is KX-TCA88.

**To switch to the speakerphone while using the headset:**

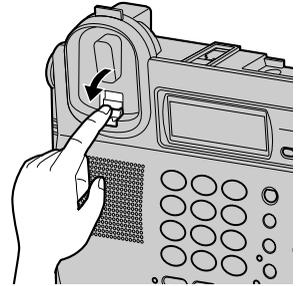
Press [📞]. To return to the headset, press [📞].

# Wall Mounting

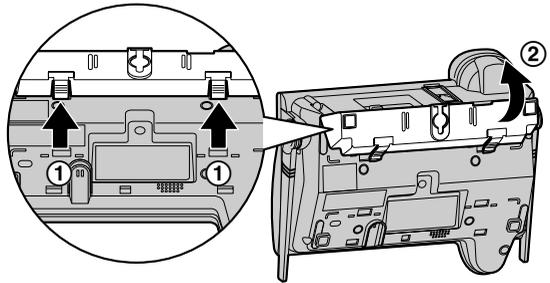
## Base unit

This unit can be mounted on a wall phone plate.

- 1 Pull down the handset hook until it locks, so the tab holds the handset.

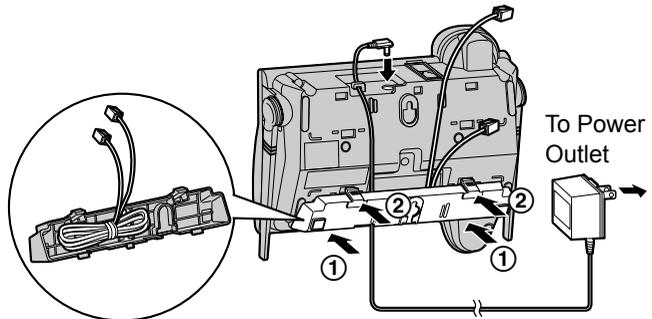


- 2 Press the tabs in the direction of the arrows (①), then remove the wall mounting adaptor (②).

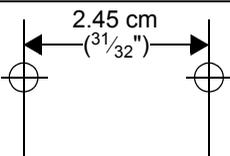


- 3 Connect the AC adaptor. Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrows (①) and (②).

- The word "UP WALL" should face upward.

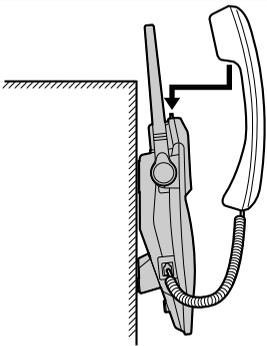
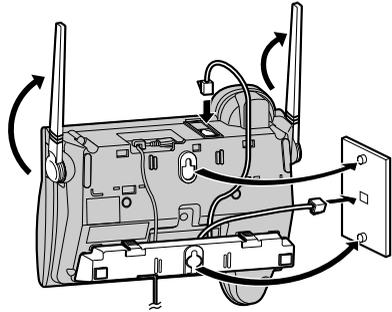


### Wall Template for the Charger unit



## Wall Mounting

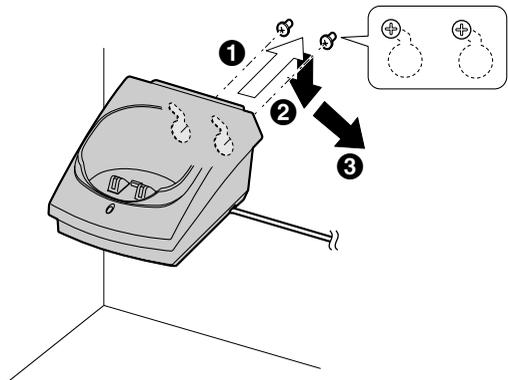
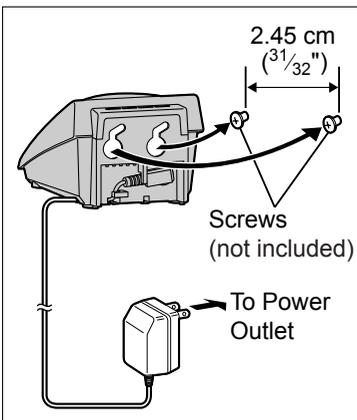
- 4** Connect the telephone line cord. Mount the base unit, then slide down.
- Raise the antennas.



To temporarily set the handset down during a conversation, place it as shown here.

### Charger unit

The charger can be wall mounted. Connect the AC adaptor. Install screws using the wall template (p. 66). Mount the charger (1). Slide it down (2), then slide down to the right (3) until it is secured.



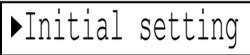
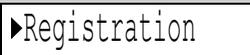
# Canceling Registration/Re-registration

## Canceling the Handset Registration **Handset**

If you no longer need to use the cordless handset or if you want to use the cordless handset with a different base unit of the same model, it is necessary to cancel the registration from the current base unit.

Only one cordless handset can be canceled at a time.

**Make sure the cordless handset and the base unit near each other and are not being used.**

1 Press <b>[CONF/FUNCTION]</b> .	
2 Press <b>[▶]</b> at “Telephone”.	
3 Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	
4 Scroll to “Registration” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	
5 Scroll to “Deregistration” by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	
6 Press <b>[3][3][5]</b> to delete the registration memory. <ul style="list-style-type: none"><li>• If you make a mistake, press <b>[HOLD/CLEAR]</b>, then enter “335”.</li></ul>	
7 Press the soft key <b>(OK)</b> . <ul style="list-style-type: none"><li>• The registration memory will be erased on both the cordless handset and the base unit.</li><li>• If a long beep sounds, you entered a wrong code. Enter “335”, then press the soft key <b>(OK)</b>.</li><li>• To register the cordless handset to another base unit of the same model, start from step 6 on page 69 or see page 27.</li></ul>	Ex. Extension number 2 

- “[–]” is shown on the top right of the display.
- After canceling registration, the cordless handset will not work. To use it again, registration will be required (p. 27, 69).

# Canceling Registration/Re-registration

## Re-registering the Handset **Base Unit & Handset**

If you want to re-register the cordless handset to the base unit or a different base unit of the same model, you need to register it to that base unit. The cordless handset will be given a new extension number of that base unit. Only one cordless handset can be registered at a time.

**Make sure the base unit and the other cordless handsets are not being used. Have both the cordless handset and base unit nearby during registration.**

If you have canceled handset registration at a previous base unit (p. 68), start from step 6.

<b>1</b> Cordless handset: Press <b>[CONF/FUNCTION]</b> .	
<b>2</b> Cordless handset: Press <b>[▶]</b> at "Telephone".	▶Telephone
<b>3</b> Cordless handset: Scroll to "Initial setting" by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Initial setting
<b>4</b> Cordless handset: Scroll to "Registration" by pressing <b>[▼]</b> or <b>[▲]</b> , then press <b>[▶]</b> .	▶Registration
<b>5</b> Cordless handset: Press <b>[▶]</b> at "HS registration".	▶HS registration
<b>6</b> Base unit: Press <b>[MUTE]</b> . <ul style="list-style-type: none"><li>• The MUTE indicator flashes. After the MUTE indicator starts flashing, the rest of the procedure must be completed within 1 minute.</li></ul>	
<b>7</b> Cordless handset: (1) Press the soft key <b>(OK)</b> . (2) Wait until 3 beeps sound and the display shows the new extension number. <ul style="list-style-type: none"><li>• Registration is complete.</li></ul>	Press MUTE on base unit, then OK on handset to register handset Ex. Extension number 2 Handset [2] [2] Registered

- You can stop registration by pressing **[OFF]** on the cordless handset and pressing **[MUTE]** on the base unit.

If you have not canceled the cordless handset registration at the previous base unit (p. 68), the handset number still remains on that base unit memory. To erase the handset number from the previous base unit, perform the following steps by using the base unit: (1) Press **[FUNCTION/EDIT]**, (2) Press **[MUTE]**, (3) Enter "335#", and (4) Enter that handset number (1 to 3). 3 beeps sound, then the handset number is erased from the base unit memory.

# If the Following Appear on Your Display...

The following will be displayed on the base unit or the cordless handset when the unit needs your attention.

Display message	Cause & Remedy
Recharge battery (cordless handset only)	<ul style="list-style-type: none"> <li>The battery needs to be charged. Recharge the battery (p. 12).</li> </ul>
Charge for 6 HRS (cordless handset only)	<ul style="list-style-type: none"> <li>The battery has been discharged. The cordless handset will not work. Fully charge the battery (p. 12).</li> </ul>
No link to base. Walk closer to base and try again. (cordless handset only)	<ul style="list-style-type: none"> <li>The cordless handset has lost communication with the base unit. Walk closer to the base unit, and try again.</li> <li>Confirm the base unit's AC adaptor is plugged in.</li> <li>Raise the base unit antennas.</li> <li>The cordless handset's registration may have been canceled. Re-register the cordless handset (p. 68, 69).</li> </ul>
Busy	<ul style="list-style-type: none"> <li>The called unit is in use.</li> <li>The cordless handset you tried to send phone book items to is in use.</li> <li>The cordless handset you are calling is too far from the base unit.</li> </ul>
Invalid	<ul style="list-style-type: none"> <li>The called cordless handset has not been registered to the base unit.</li> </ul>
Error!!	<ul style="list-style-type: none"> <li>When you tried to register or deregister the cordless handset, the cordless handset and the base unit could not link for some reason, such as interference from other electrical appliances. Move the cordless handset and the base unit away from electrical appliances and try again.</li> <li>Another unit tried to send phone book items to you but copying stopped (p. 44, 45).</li> </ul>
Phone book full	<ul style="list-style-type: none"> <li>When you tried to store an item in the phone book, the phone book memory was full. Press <b>[STOP]</b> on the base unit or <b>[OFF]</b> on the cordless handset to exit the programming mode. To erase other items from the phone book, see page 43.</li> </ul>

## If the Following Appear on Your Display...

Display message	Cause & Remedy
<p>System is busy. Please try again later.</p>	<ul style="list-style-type: none"> <li>• If more than one unit is in use, such as conducting outside/intercom calls or listening to messages, you may not be able to use another unit. Try again later.</li> <li>• The Answering System is in use (answering a call or playing back messages). Try again later.</li> <li>• The cordless handset has lost communication with the base unit. Walk closer to the base unit and try again.</li> </ul>
<p>---Incomplete--- Tom Jones 098-765-4321 Phone book full (The name/number is an example.) (cordless handset only)</p>	<ul style="list-style-type: none"> <li>• When the displayed item was sent to the destination unit, the phone book memory was full and the copying stopped. If you tried to send all of the items, the item displayed with “<b>Incomplete</b>” and items after it have not been copied to the destination unit. You can press <b>[OFF]</b> on the cordless handset to exit (p. 44, 45). To erase other stored items from the destination unit’s phone book, see page 43. You can copy all of the items again or copy the items which have not been copied one by one (p. 44, 45).</li> <li>• If copying stopped and “<b>Phone book full</b>” is not displayed, it may indicate: <ul style="list-style-type: none"> <li>– the destination cordless handset is out of area, or</li> <li>– the destination unit user may have pressed <b>[↶]</b> or <b>[↷]</b> on the cordless handset, lifted the base unit handset or pressed <b>[DIGITAL SP-PHONE]</b>.</li> </ul> </li> </ul>
<p>Phone book No items stored (cordless handset only)</p>	<ul style="list-style-type: none"> <li>• No items cannot be copied to the destination cordless handset. Your phone book is empty.</li> </ul>
<p>Invalid. Please register to the base unit (cordless handset only)</p>	<ul style="list-style-type: none"> <li>• The cordless handset you tried to make a call has not been registered to the base unit. Register the cordless handset (p. 27).</li> </ul>
<p>Greeting record  Recording error (base unit only)</p>	<ul style="list-style-type: none"> <li>• “Your greeting was not recorded. Record your greeting again.” is announced. Your greeting was not recorded correctly. Record it again (p. 24).</li> </ul>
<p>Message full (base unit only)</p>	<ul style="list-style-type: none"> <li>• The remaining recording time or the number of messages which can still be recorded is 0. Erase unnecessary messages (p. 59).</li> </ul>

## If the Following Appear on Your Display...

---

Display message	Cause & Remedy
Error!! 3 handsets have already been registered. (cordless handset only)	<ul style="list-style-type: none"><li>• 3 cordless handsets have already been registered to the base unit. To cancel another handset registration, see page 68.</li><li>• You may have registered one of your cordless handsets to another base unit without deleting its registration to this base unit. Erase the cordless handset's registration from the base unit. (1) Press <b>[FUNCTION/EDIT]</b>, (2) Press <b>[MUTE]</b>, (3) Enter "335#" and (4) Enter that handset number (1 to 3).</li></ul>
SECURITYinactive Call ADT	<ul style="list-style-type: none"><li>• You need to subscribe to the ADT security services to use the system's features.</li></ul>

# Troubleshooting

If the display shows error messages, see “If the Following Appear on Your Display...” (p. 70–72) for the Cause & Remedy.

## Telephone System

Problem	Cause & Remedy
“No link to base. Walk closer to base and try again.” is displayed and an alarm tone sounds.	<ul style="list-style-type: none"><li>• The cordless handset has lost communication with the base unit. Walk closer to the base unit, and try again.</li><li>• Confirm the base unit’s AC adaptor is plugged in.</li><li>• Raise the base unit antennas.</li><li>• The cordless handset’s registration may have been canceled. Re-register the cordless handset (p. 68, 69).</li></ul>
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul style="list-style-type: none"><li>• Move the cordless handset and the base unit away from other electrical appliances (p. 3).</li><li>• Walk closer to the base unit.</li><li>• Raise the base unit antennas.</li><li>• Press [◀] on the cordless handset to turn on the Clarity Booster feature (p. 31).</li><li>• If the unit is connected to a telephone line with DSL service, you may hear noise from the receiver or speaker during conversations. We recommend connecting a noise filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.</li></ul>
The base unit and/or cordless handset does not ring.	<ul style="list-style-type: none"><li>• The ringer volume is turned off. Set to HIGH, MEDIUM or LOW (p. 21).</li><li>• If more than one other unit is in use, the cordless handset/base unit may not ring. Users will hear incoming call tones (p. 52).</li></ul>
The cordless handset display is blank.	<ul style="list-style-type: none"><li>• If only the cordless handset display is blank, fully charge the battery (p. 12).</li></ul>
You cannot program any function items.	<ul style="list-style-type: none"><li>• Programming is not possible while the unit is being used.</li><li>• Do not pause for over 60 seconds while programming.</li><li>• Walk closer to the base unit if you are using the cordless handset.</li><li>• While another user is listening to messages or the Answering System is responding to a call, you cannot program. Try again later.</li></ul>

# Troubleshooting

Problem	Cause & Remedy
While programming or searching, the unit starts to ring and stops the program/search.	<ul style="list-style-type: none"><li>• A call is coming in. To answer the call, lift the base unit handset, or press <b>[DIGITAL SP-PHONE]</b>, [] or []. Start again from the beginning after hanging up.</li></ul>
You cannot make an intercom/outside call.	<ul style="list-style-type: none"><li>• If more than one other unit is in use, you may not be able to make a call. Try again later.</li><li>• Your cordless handset is in the remote operation mode (p. 57). Exit by pressing <b>[OFF]</b>.</li><li>• The cordless handset you called is too far from the base unit.</li></ul>
The base unit or cordless handset does not display the caller's name and/or phone number.	<ul style="list-style-type: none"><li>• You need to subscribe to Caller ID.</li><li>• Other telephone equipment may be interfering with your phone. Disconnect it and try again.</li><li>• Other electrical appliances connected to the same outlet may be interfering with Caller ID.</li><li>• Telephone line noise may be affecting Caller ID.</li><li>• The caller requested not to send his/her information. See page 33.</li><li>• If a call is being transferred to you, the Caller ID information will not be displayed.</li><li>• If a (separate) Caller ID box is connected between the unit and the telephone wall jack, disconnect the Caller ID box or plug the unit directly into the wall jack.</li><li>• If the unit is connected to a telephone line with DSL service, the unit may not display caller's name and/or phone number properly. We recommend connecting a noise filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.</li></ul>
The base unit or cordless handset cannot automatically edit the Caller List/incoming phone numbers.	<ul style="list-style-type: none"><li>• The Caller ID Number Auto Edit feature is turned off. Turn it on (p. 37) and try again.</li><li>• You need to lift the base unit handset, or press <b>[DIGITAL SP-PHONE]</b>, [] or [] after editing the number.</li></ul>
The display exits the Caller List or phone book.	<ul style="list-style-type: none"><li>• Do not pause for over 60 seconds while searching.</li></ul>

# Troubleshooting

Problem	Cause & Remedy
You cannot redial.	<ul style="list-style-type: none"><li>• If the last number dialed was more than 32 digits long, the number will not be redialed correctly.</li><li>• The button functions as either redial or pause. It will redial the last number dialed if pressed at the outset of a call (p. 29, 31). If another number has been dialed first, it will operate as a pause button (p. 52).</li></ul>
You cannot make long distance calls.	<ul style="list-style-type: none"><li>• Please make sure you have long distance service.</li></ul>

# Troubleshooting

## Answering System

Problem	Cause & Remedy
The Answering System is on, but incoming messages are not recorded.	<ul style="list-style-type: none"><li>• The recording time is set to “Greeting only”. Select “1 minute”, “2 minutes” or “3 minutes” (p. 25).</li><li>• Memory is full. Erase unnecessary messages (p. 59).</li></ul>
“ <b>MESSAGE FULL</b> ” is displayed and the ANSWER ON indicator flashes rapidly, and no new messages are recorded.	<ul style="list-style-type: none"><li>• Memory is full. Erase unnecessary messages (p. 59).</li></ul>
You cannot operate the Answering System from the base unit or the cordless handset.	<ul style="list-style-type: none"><li>• If more than one other unit is in use, you may not be able to operate the Answering System. Try again later.</li><li>• If another user is listening to messages or the Answering System is handling a call, you cannot operate the Answering System. Try again later.</li></ul>
You cannot operate the Answering System from a touch tone phone.	<ul style="list-style-type: none"><li>• Make sure you enter the correct remote code (p. 62).</li><li>• The Answering System may not respond if the tones are too short to activate the unit. Press each button firmly.</li><li>• The Answering System is off. Turn it on (p. 64).</li></ul>
When you play back messages or you turn the Answering System on, the unit announces the wrong day.	<ul style="list-style-type: none"><li>• The date and time may be set incorrectly. Set the date and time again (p. 18).</li></ul>
Caller ID information is not displayed during message playback (p. 58).	<ul style="list-style-type: none"><li>• Caller ID information will not be displayed<ul style="list-style-type: none"><li>– if a call is transferred to the Answering System, and the caller leaves a message (p. 60), or</li><li>– if the Caller List is renewed and the Caller List item is erased (p. 34).</li></ul></li></ul>

## General

Problem	Cause & Remedy
The unit does not work.	<ul style="list-style-type: none"> <li>• Check the settings (p. 10–13).</li> <li>• Check whether the dialing mode setting is correct (p. 19).</li> <li>• Fully charge the battery (p. 12).</li> <li>• Clean the charge contacts and charge again (p. 13).</li> <li>• Check battery installation (p. 11).</li> <li>• Unplug the base unit's AC adaptor to reset it. Plug in, and try again.</li> <li>• The cordless handset has not been registered to the base unit. Register the cordless handset (p. 27, 69).</li> <li>• Re-install the battery (p. 11) and fully charge it.</li> <li>• Verify the correct AC adaptor is connected to the base unit.</li> </ul>
"Recharge battery" is displayed, "  " flashes or the cordless handset beeps intermittently.	<ul style="list-style-type: none"> <li>• Fully charge the battery (p. 12).</li> </ul>
"Charge for 6 HRS" and "  " are displayed and the cordless handset does not work.	<ul style="list-style-type: none"> <li>• The battery has been discharged. Fully charge the battery (p. 12).</li> </ul>
You charged the battery fully, but "Recharge battery" is still displayed and/or "  " continues to flash, or "Charge for 6 HRS" and "  " are displayed.	<ul style="list-style-type: none"> <li>• Clean the charge contacts and charge again (p. 13).</li> <li>• The battery may need to be replaced. If you install a new battery, fully charge it (p. 11, 13).</li> </ul>
The CHARGE indicator does not go out after the battery has been charged.	<ul style="list-style-type: none"> <li>• This is normal.</li> </ul>
If you cannot solve your problem	<ul style="list-style-type: none"> <li>• Read the Operating Instructions or Quick Set-Up Guide.</li> <li>• Please call 1-800-ADT-ASAP</li> </ul>

# Important Safety Instructions

---

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

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicer when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicer when the following conditions occur:
  - A. When the power supply cord or plug is damaged or frayed.
  - B. If liquid has been spilled into the unit.
  - C. If the unit has been exposed to rain or water.
  - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicer.
  - E. If the unit has been dropped or physically damaged.
  - F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

## SAVE THESE INSTRUCTIONS

# Important Safety Instructions

## CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

## WARNING:

**TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.**

- The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

## FCC and Other Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:ACJ----.

If requested, this number must be provided to the telephone company.

Registration No. .... (found on the bottom of the unit)  
Ringer Equivalence No. (REN) ..... 0.2B

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

# FCC and Other Information

---

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact a Factory Servicenter or other Authorized Servicer. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

## WHEN PROGRAMMING EMERGENCY NUMBERS AND(OR) MAKING TEST CALLS TO EMERGENCY NUMBERS:

- 1) Remain on the line and briefly explain to the dispatcher the reason for the call.
- 2) Perform such activities in the off-peak hours, such as early morning or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

### **CAUTION:**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

### **Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

## FCC and Other Information

Operating near 2.4GHz electrical appliances may cause interference. Move away from the electrical appliances.

### FCC RF Exposure Warning:

This product complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF exposure requirements the base unit must be installed and operated with its antenna located 20 cm or more between antenna and all person's body (excluding extremities of hands, wrist and feet). The handset unit may be carried and operated with only the specific provided belt-clip. Other non-tested belt-clips or similar body-worn accessories may not comply and must be avoided. The base and handset units must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

- **Environment** — do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **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 unit operates in the frequency range of 2400MHz to 2480MHz, and the power output level can range from 0.04 to 0.4 watts.) Do not use the unit 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 (radio frequency) energy.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

# Index

---

## A

- Accessories . . . . . 2
- Accessory cordless handset . . . . . 3
- Answering calls, base unit . . . . . 32
- Answering calls, cordless handset . 32
- Answering System . . . . . 54
- Auto Talk . . . . . 23, 32, 47

## B

- Backlit LCD . . . . . 9
- Base unit location . . . . . 3
- Battery charge . . . . . 3, 12
- *Battery information* . . . . . 13
- Battery replacement . . . . . 11, 13
- Battery strength . . . . . 12
- Belt clip . . . . . 65
- *Booster* . . . . . 31

## C

- Call share . . . . . 50
- Call Waiting Caller ID display . . . . 51
- Call waiting tone . . . . . 51
- *Caller ID Number auto edit* . . . 36, 37
- *Call Monitoring* . . . . . 55
- Caller ID service . . . . . 33
- Caller List, editing . . . . . 36
- Caller List, erasing . . . . . 39
- Caller List, storing . . . . . 38
- Caller List, viewing . . . . . 34
- Calling back from the Caller List . . 35
- Conference calls . . . . . 50
- *Copy phone book* . . . . . 44, 45

## D

- *Date and time* . . . . . 18
- Deregistration . . . . . 68
- Dialing mode . . . . . 19
- Direct commands . . . . . 64
- Displays . . . . . 9

## E

- Emergency buttons . . . . . 6
- Erasing a message . . . . . 59, 64
- Erasing all messages . . . . . 59, 64
- Error messages . . . . . 70
- Extension number . . . . . 27, 46, 69

## F

- FCC and other information . . . . . 79
- FLASH button . . . . . 53
- Flash time . . . . . 53
- Function Menu, Selection . . . . . 14
- Function Menu, Table . . . . . 16, 17

## G

- *Greeting message* . . . . . 24

## H

- Headset, optional . . . . . 65
- Hold . . . . . 29, 31

## I

- Incoming call tone . . . . . 52
- Installation, AC Adaptor . . . . . 10, 11
- Installation, battery . . . . . 11
- Installation, charger unit . . . . . 11
- Installation, corded handset . . . . . 10
- Installation, telephone line cord . . 10
- Intercom call . . . . . 46

## L

- LCD Contrast . . . . . 23
- Lighted handset keypad . . . . . 8
- Line mode . . . . . 20
- Listen to messages . . . . . 56, 57, 61
- Location of controls . . . . . 6, 7

## M

- Making calls, base unit . . . . . 28
- Making calls, cordless handset . . . 30
- Message storage . . . . . 25
- Microphone, base unit . . . . . 24, 28, 46
- Microphone, cordless handset . . . 30
- *Monitoring incoming calls* . . . . 55
- Mute . . . . . 51

## N

- Navigator key . . . . . 8
- Noise . . . . . 3
- Number of rings . . . . . 26

## P

Paging	46
PANIC Key	8
PAUSE	52
— <i>Phone book</i>	40
— <i>Phone book, copying</i>	44, 45
Phone book, dialing	42
Phone book, editing	43
Phone book, erasing	43
Phone book, names	41
Phone book, storing	40
Power failure	10, 18, 25
Pulse service	51

## R

Recording time	25
Redial	29, 31
Redial list	31
— <i>Registration</i>	27, 69
Registration, Canceling	68
Remote code	62
Remote operation, cordless handset	57
Remote operation, touch tone phone	61
Ringer off	21, 32
Ringer tone	22
Ringer volume	21
Rotary service, tone dialing	51

## S

Safety instructions	78
Shipping product for service	Back cover
Soft keys	8
Specifications	84
SP-phone, base unit	28
SP-phone, cordless handset	30

## T

Toll saver	26
— <i>Transferring a call</i>	48, 60
Troubleshooting, Answering System	76
Troubleshooting, General	77
Troubleshooting, Telephone System	73
TTY	2, 86

## V

Voice menu	57, 63
Volume control, base unit	24, 28
Volume control, cordless handset	30

## W

Wall mounting	66
Warranty	85

- “—” indicates important information and frequently used features.

# Specifications

---

## ■ Base unit

<b>Power Supply:</b>	AC adaptor (120 V AC, 60 Hz)
<b>Power Consumption:</b>	Standby: Approx. 3.5 W Maximum: Approx. 7.2 W
<b>Frequency:</b>	2.40 GHz – 2.48 GHz
<b>Dimensions (H x W x D):</b>	Approx. 93 mm x 250 mm x 194 mm (3 <sup>21</sup> / <sub>32</sub> " x 9 <sup>27</sup> / <sub>32</sub> " x 7 <sup>5</sup> / <sub>8</sub> " )
<b>Mass (Weight):</b>	Approx. 760 g (1.68 lb.)

## ■ Charger

<b>Power Supply:</b>	AC adaptor (120 V AC, 60 Hz)
<b>Power Consumption:</b>	Standby: Approx. 0.8 W Maximum: Approx. 4.0 W
<b>Dimensions (H x W x D):</b>	Approx. 60 mm x 74 mm x 96 mm (2 <sup>11</sup> / <sub>32</sub> " x 2 <sup>29</sup> / <sub>32</sub> " x 3 <sup>25</sup> / <sub>32</sub> " )
<b>Mass (Weight):</b>	Approx. 95 g (0.21 lb.)

## ■ Cordless handset

<b>Power Supply:</b>	Ni-MH battery (3.6 V, 1,000 mAh)
<b>Frequency:</b>	2.40 GHz – 2.48 GHz
<b>Dimensions (H x W x D):</b>	Approx. 242 mm x 53 mm x 37 mm (9 <sup>17</sup> / <sub>32</sub> " x 2 <sup>3</sup> / <sub>32</sub> " x 1 <sup>15</sup> / <sub>32</sub> " )
<b>Mass (Weight):</b>	Approx. 220 g (0.48 lb.)
<b>Security Codes:</b>	1,000,000

■ **Dialing Mode:** Tone (DTMF)/Pulse

■ **Operating Environment:** 5 °C – 40 °C (41 °F – 104 °F)

Specifications are subject to change without notice.

## Energy Star:

As an ENERGY STAR® Participant, Panasonic has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.



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

**PANASONIC SALES COMPANY,  
DIVISION OF MATSUSHITA  
ELECTRIC OF PUERTO RICO, INC.,**  
Ave. 65 de Infanteria, Km. 9.5  
San Gabriel Industrial Park  
Carolina, Puerto Rico 00985

## **Panasonic Telephone Products Limited Warranty**

### **Limited Warranty Coverage**

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

<b>Parts</b>	<b>Labor</b>
<b>One (1) Year</b>	<b>One (1) Year</b>

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts. You must mail-in your product during the Limited Warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new.

### **Mail-In Service**

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

**Panasonic Services Company Customer Servicenter  
Suite B 4900 George McVay Drive McAllen, TX 78503**

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

For Limited Warranty service for headsets if a headset is included with this product please call Panasonic Call Center at 1-800-211-PANA (7262).

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

**IF REPAIR IS NEEDED DURING THE LIMITED WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.**

### **Limited Warranty Limits And Exclusions**

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

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

**For ADT Security System Customers, please call 1-800-ADT-ASAP**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you. This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

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

## ***Customer Services Directory***

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

**<http://www.panasonic.com/support>**

or, contact us via the web at:

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

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

For hearing or speech impaired TTY users, TTY : 1-877-833-8855

## ***Accessory Purchases***

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

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

or, send your request by E-mail to:

**[npcparts@us.panasonic.com](mailto:npcparts@us.panasonic.com)**

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)

(Monday - Friday 9 am to 8 pm, EST.)

Panasonic Services Company

20421 84th Avenue South, Kent, WA 98032

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

For hearing or speech impaired TTY users, TTY : 1-866-605-1277

## ***Service in Puerto Rico***

***Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company  
Factory Servicenter:***

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

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

## **Panasonic Limitation**

“Neither Panasonic Communications Co., Ltd. nor Matsushita Electric Corporation of America is in any way affiliated with, or responsible for the acts or omissions of, ADT Security Services, Inc. (ADT).

NEITHER PANASONIC COMMUNICATIONS CO., LTD. NOR MATSUSHITA ELECTRIC CORPORATION OF AMERICA NOR ANY OF ITS OR THEIR PARENTS, SUBSIDIARIES, AFFILIATES, OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, CONTRACTORS, OR CUSTOMERS MAKE ANY WARRANTIES OR REPRESENTATIONS, EITHER EXPRESS OR IMPLIED, TO ANY CUSTOMER OR ANY OTHER THIRD PARTY WITH RESPECT TO ANY OF THE SERVICES PROVIDED BY ADT NOR ASSUME NOR CREATE ANY OTHER OBLIGATION OF ANY KIND ON BEHALF OF ADT.”

NEITHER PANASONIC COMMUNICATIONS CO., LTD., MATSUSHITA ELECTRIC CORPORATION OF AMERICA, NOR ANY OF ITS OR THEIR PARENTS, SUBSIDIARIES, AFFILIATES, OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, CONTRACTORS, (“Seller”) represent that the telephone product will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the telephone product will in all cases provide adequate warning or protection. Buyer understands that a properly installed and maintained telephone system in conjunction with a properly installed and maintained alarm system may only reduce the risk of burglary, robbery, fire or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON A CLAIM THE TELEPHONE PRODUCT FAILED TO OPERATE OR GIVE WARNING. HOWEVER, IF SELLER IS HELD LIABLE, WHETHER DIRECTLY OR INDIRECTLY, FOR ANY LOSS OR DAMAGE ARISING UNDER THIS LIMITED WARRANTY OR OTHERWISE, REGARDLESS OF CAUSE OR ORIGIN, SELLER’S MAXIMUM LIABILITY SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE TELEPHONE PRODUCT, WHICH SHALL BE THE COMPLETE AND EXCLUSIVE REMEDY AGAINST SELLER.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. No increase or alteration, written or verbal, to this warranty is authorized.

## For product service

- Read the Operating Instructions or Quick Set-Up Guide.
- Please call 1-800-ADT-ASAP

## When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

---

- Send the unit to an authorized servicer, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

## For your future reference

Serial No. \_\_\_\_\_

Date of purchase \_\_\_\_\_

(found on the bottom of the unit)

Name and address of dealer \_\_\_\_\_

---

- This cordless telephone is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Ce téléphone sans fil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este teléfono inalámbrico fue elaborado para uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

**If you need assistance with setup or operation, please call 1-800-ADT-ASAP**

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

**Panasonic Sales Company,  
Division of Matsushita Electric of Puerto Rico, Inc.**  
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park  
Carolina, Puerto Rico 00985