

2.4GHz Cordless Phone

# Operating Instructions Model No. KX-TG2564S

Pulse-or-tone dialing capability



Caller ID Compatible

#### PLEASE READ BEFORE USE AND SAVE.

Charge the battery for about 15 hours before initial use.

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

# **Before Initial Use**

Please read IMPORTANT SAFETY INSTRUCTIONS on page 71 before use. Read and understand all instructions.

Thank you for purchasing your new Panasonic cordless telephone.

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.

# Attach your purchase receipt here.

Date of purchase

#### For your future reference

Serial No.

(found on the bottom of the	unit)			
Name and address of dealer				
Accessories (include	d) For extra orders, call	1-800-332-5368.		
AC Adaptor (p. 10) Order No. PQLV10Z  one	□ Telephone Line Cord (p. 10) Order No. PQJA10075Z  one	□ Handset (p. 10) Order No. PQJXF0621Z one		
□ Handset Cord (p. 10) Order No. PFJA04C001Z	□ Belt Clip (p. 62) Order No. PQKE10127Z3	□ Charger Unit (p. 11) Charger Order No. PQLV30016ZS AC Adaptor Order No. KX-TCA1-G (KX-TCA1)		
one	one	one		

# For Best Performance

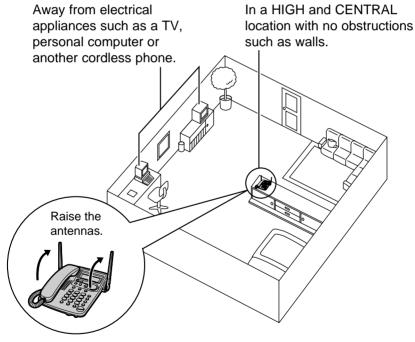
# **Battery Charge**

A rechargeable Ni-Cd battery powers the cordless handset. Charge the battery for about **15 hours** before initial use (p. 11).



#### **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:



#### Note:

While using the cordless handset:

- If you are near a microwave oven which is being used, noise may be heard from the receiver. 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.

# **Contents**

Preparation
Location of Controls         6           Displays         9           Settings         10           Connections         10           Battery Charge         11           Date and Time Base Unit         13           Dialing Mode Cordless Handset         15           Line Mode Cordless Handset         16           Programmable Functions         17           Auto Talk Feature Cordless Handset         19           Ringer Volume Cordless Handset         Base Unit         20           LCD Contrast Cordless Handset         Base Unit         21
Basic Operation
Making CallsCordless HandsetBase Unit23Answering CallsCordless HandsetBase Unit28Caller ID Service29Using the Caller List30Viewing the Caller ListCordless HandsetBase Unit30Calling Back from the Caller ListCordless HandsetBase Unit31Editing the Caller's Phone NumberCordless HandsetBase Unit32The Caller ID Number Auto Edit FeatureCordless Handset34Storing Caller List Information in the DirectoryCordless Handset36Erasing Caller List InformationCordless HandsetBase Unit37
Advanced Operation
Directory         39           Storing Names and Numbers Cordless Handset         39           Entering Names and Symbols Cordless Handset         41           Finding Stored Items Cordless Handset         Base Unit         42           Dialing Cordless Handset         Base Unit         44           Editing Cordless Handset         45         Erasing Cordless Handset         46           One-Touch Dialer         47         47           Storing Phone Numbers in Memory Base Unit         47           Dialing Base Unit         48           Intercom Cordless Handset         Base Unit         49           Transferring a Call Using the Intercom Cordless Handset         Base Unit         50

Storing a Voice Mail Access Number Cordless Handset
Muting Your Conversation Cordless Handset Base Unit
(For PBX Line/Long Distance Calls) Cordless Handset Base Unit
Useful Information
Wall Mounting. 60 Belt Clip 62 Optional Headset 62 Battery Replacement 63 Adding Another Phone 64
If the Following Appear 64
Troubleshooting

#### Important:

Cordless Handset : Perform with the cordless handset.

Base Unit : Perform with the base unit.

Cordless Handset Base Unit : Perform with the cordless handset and the

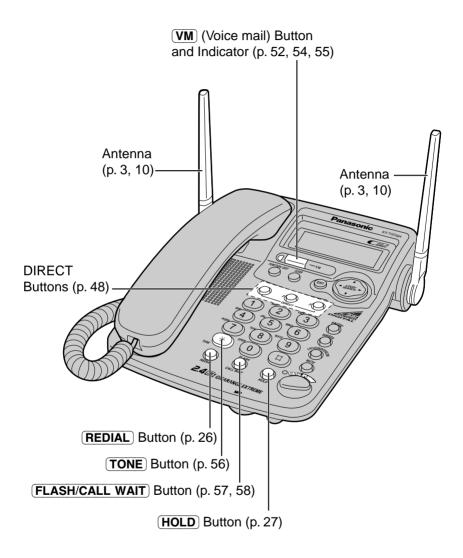
base unit separately.

Cordless Handset & Base Unit : Perform with both the cordless handset and

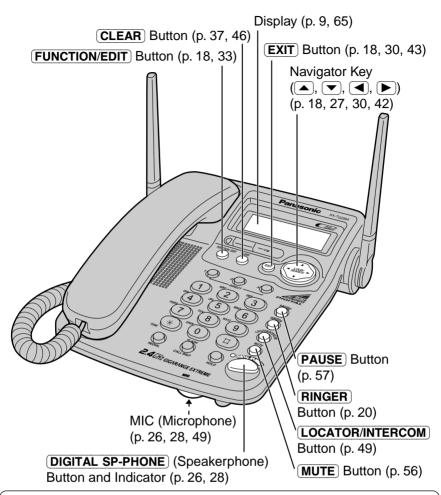
base unit together.

# **Location of Controls**

#### Base unit







#### How to use the Navigator key

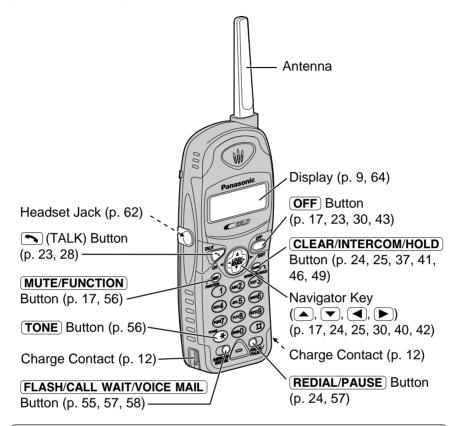
This key has four active areas that are indicated by arrows.



- Pressing the up and down arrows allows you to enter the Caller List and scroll through the function menu, the Caller List and the directory list. They are also used to adjust the handset and speaker volumes.
- Pressing the right and left arrows allows you to enter the directory list.
- Pressing the right arrow allows you to select or confirm your menu choices.

Throughout this Operating Instructions, the navigator key is indicated by the arrows  $\bigcirc$ ,  $\bigcirc$ ,  $\bigcirc$  or  $\bigcirc$ .

#### **Cordless handset**



#### How to use the Navigator key

This key has four active areas that are indicated by arrows.

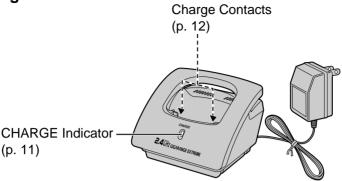


- Pressing the up and down arrows allows you to enter the Caller List and scroll through the function menu, the Caller List and the directory list. They are also used to adjust the cordless handset receiver volume.
- Pressing the right and left arrows allows you to enter the directory list and move the cursor when entering directory items.
- The right arrow is used to select or confirm your menu choices and to edit a phone number of the Caller List into one of 3 patterns.

The left arrow is used to select a clearer channel.

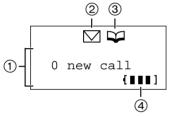
Throughout this Operating Instructions, the navigator key is indicated by the arrows  $\bigcirc$ ,  $\bigcirc$ ,  $\bigcirc$  or  $\bigcirc$ .

#### **Charger unit**



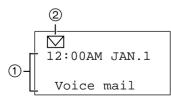
# **Displays**

#### Cordless handset



- ① The display shows the dialed number, call status, programming options and directory items etc. If you subscribe to a Caller ID service, caller information will be displayed (p. 29). The number of new calls will also be displayed.
- ② The voice mail icon displays when the voice mail message(s) is/are recorded (p. 52).
- 3 The directory icon displays when storing or viewing the directory items (p. 39, 42).
- (4) The battery icon indicates the battery strength.

#### Base unit

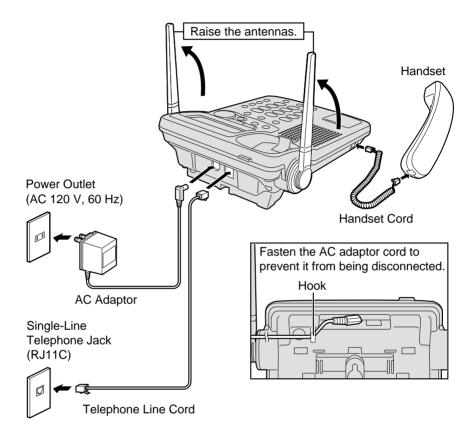


- ① The time and date is displayed while the unit is not in use. The display shows the dialed number, call status, programming options and directory items etc.
  - If you subscribe to a Caller ID service, caller information will be displayed (p. 29). The number of new calls will also be displayed.
- ② The voice mail icon displays when the voice mail message(s) is/are recorded (p. 52).

# **Settings**

#### **Connections**

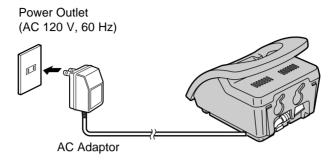
#### Base unit



- •USE ONLY WITH Panasonic AC ADAPTOR PQLV10 (Order No. PQLV10Z).
- •The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- •Use only a Panasonic Handset for the KX-TG2564S.
- ●To connect a standard telephone on the same line, see page 64.
- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.



#### 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.)

# **Battery Charge**

Place the cordless handset on the charger and charge for about **15 hours** before initial use.

- Make sure the cordless handset faces forward as shown.
- •The CHARGE indicator lights and a beep sounds.
- Charge time may be longer than 15 hours depending on circumstance noise condition.



#### **Battery strength**

You can check the battery strength on the cordless handset display. The battery strength is as shown in the chart below.

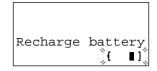
Display prompt	Battery strength
{ <b>***</b> }	Fully charged
{ III]	Medium
{ ■]	Low
ॢॄ I ] (flashing)	Needs to be recharged.

## Settings

#### Recharge

Recharge the battery when:

- —"Recharge battery" is displayed,
- —"[ ■]" flashes on the display, or
- —the cordless handset beeps intermittently while it is in use.



● If you DO NOT recharge the cordless handset battery for more than 15 minutes, the display will continually indicate "Recharge battery" and/or "[ ■]" will continue to flash when the cordless handset is lifted off the charger.

#### **Battery information**

After your Panasonic battery is fully charged (p. 11):

Operation		Approx. battery life
While in use	near the base unit*	Up to about 4.5 hours
(TALK)	away from the base unit	Up to about 3.5 hours
While not in use (Standby)		Up to about 11 days

<sup>\*</sup>Within about 10 feet (3 m)

- •Battery life may be shortened depending on usage conditions, such as viewing the Caller ID Caller List or directory list, and ambient temperature.
- 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.
- •The battery cannot be overcharged.



### Date and Time Base Unit

Make sure the base unit and cordless handset are not being used.

Press **FUNCTION/EDIT**.

**9** Press ▶ (Yes key) at "Date and time".

Enter the current date (year, month, and day) using 4-digit numbers. (Ex. To set Apr. 15, 2002, enter "2002" and "0415".)

Press ▼ (Next key).

Enter the current time (hour and minute) using a 4-digit number.
(Ex. To set 9:30, enter "0930".)

6 Select "AM" or "PM" by pressing ★.

7 Press ▼ (Next key).

Q Press ▶ (Save key).

- •A beep sounds.
- •The clock starts working.
- If 3 beeps sound, the setting is not correct. Start again from step 3.
- •To exit the programming mode, press **EXIT**.

Date and time
Save DIRECT#

▼▲ ▶=Yes

Time:09:30AM 0-9=Time \*=AM/PM ▼=Next

Date:2002.04.15 Time:09:30PM

- •You can exit the programming mode any time by pressing **EXIT**).
- In step 5, you cannot enter numbers greater than 12. Do not use military time.
   (To set 13:00 hours, enter "0100", and select "PM" by pressing ★.)
- •If you enter a wrong number in step 3 or step 5, press  $\blacktriangleleft$  or  $\blacktriangleright$  to move the cursor to the incorrect number. Enter the correct number.

# Settings

If a power failure occurs, the time/date flashes on the base unit display. Adjust the date/time.

#### For Caller ID service users (p. 29)

- •The Caller ID information will reset the clock after the first ring if the adjusted time and/or date is incorrect.
- If the time has not previously been set, the Caller ID information will not adjust the clock.
- The Caller ID information will automatically adjust the clock for daylight saving time.



#### Dialing Mode Cordless Handset

You can program the dialing mode using the cordless handset near the base unit. If you have touch tone service, set to "Tone". If rotary or pulse service is used, set to "Pulse". Your phone comes from the factory set to "Tone".

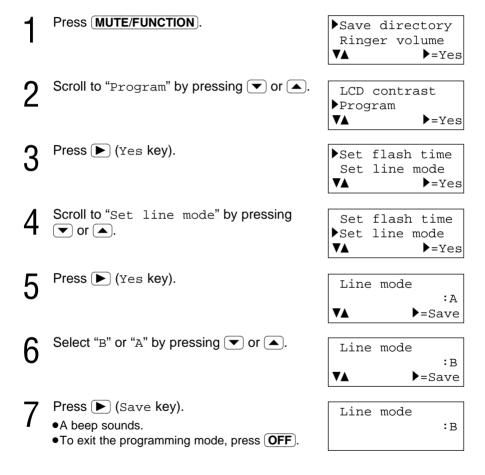
Make sure the base unit and cordless handset are not being used.

- Press **MUTE/FUNCTION**. ▶Save directory Ringer volume ▶=Yes Scroll to "Program" by pressing (▼) or (▲). LCD contrast Program ▶=Yes Press (Yes key). Set flash time Set line mode  $\mathbf{V}$ >=Yes Scroll to "Set dial mode" by pressing ▶Set dial mode **▼** or **▲**. Auto talk  $\mathbf{V}$ ▶=Yes Press (Yes key). Dial mode :Tone VA ▶=Save Select "Pulse" or "Tone" by pressing ▼ Dial mode or ( $\blacktriangle$ ). :Pulse ▶=Save Press (Save key). Dial mode A beep sounds. :Pulse •To exit the programming mode, press **OFF**.
- •You can exit the programming mode any time by pressing **OFF**.

#### Line Mode Cordless Handset

You can program the line mode using the cordless handset near the base unit. If the line is connected to a low voltage system such as a PBX, set to "B". Otherwise the Call Waiting Caller ID Feature may not be used (p. 57). Your phone comes from the factory set to "A".

Make sure the base unit and cordless handset are not being used.



•You can exit the programming mode any time by pressing **OFF**.

# **Programmable Functions**



#### Cordless Handset

You can program the following function items using the cordless handset near the base unit. The display shows the programming instructions. See the corresponding pages for function details.

Make sure the base unit and cordless handset are not being used.

Press MUTE/FUNCTION on the cordless handset.

Function menu>\*
Save directory......To store an item in the directory (p. 39).
Ringer volume......To select the ringer volume (p. 20).
LCD contrast......To select the LCD contrast of the cordless handset (p. 21).
Program
Scroll to "Program" by pressing ▼ or ♠, and press ▶ (Yes key).

Function menu>\*

Set flash time ── To select the flash time (p. 58).

Set line mode ── To select the line mode (p. 16).

Set dial mode ── To select the dial mode (p. 15).

Auto talk ── To set the Auto Talk feature (p. 19).

Save VM access# ── To set the voice mail access number (p. 52).

VM tone detect ── To set the Caller ID Number Auto Edit feature (p. 34).

#### **During programming**

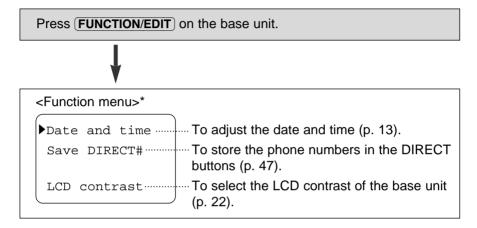
- \*To select a desired function item, scroll through the items by pressing 
  ▼ or ▲. Then press ▶ (Yes key) to go to the next step.
- •You can exit the programming mode any time by pressing **OFF**).
- •If the cordless handset has lost communication with the base unit, 3 beeps sound and "No link to base. Walk closer to base & try again" is displayed.

# **▶** Programmable Functions

#### Base Unit

You can program the following function items **using the base unit**. The display shows the programming instructions. See the corresponding pages for function details.

Make sure the base unit and cordless handset are not being used.



#### **During programming**

- \*To select a desired function item, scroll through the items by pressing 
  ▼ or ▲. Then press ▶ (Yes key) to go to the next step.
- •You can exit the programming mode any time by pressing **EXIT**.



#### Auto Talk Feature Cordless Handset

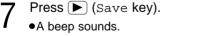
Press **MUTE/FUNCTION**.

The Auto Talk feature allows you to answer a call by lifting the cordless handset off the charger without pressing . If you want to use this feature, turn the feature ON by programming. Your phone comes from the factory set to OFF.

Make sure the base unit and cordless handset are not being used.

- Ringer volume ▶=Yes Scroll to "Program" by pressing (▼) or (▲). LCD contrast Program VA ▶=Yes Press (Yes key). ▶Set flash time Set line mode  $\mathbf{V}$ ▶=Yes Scroll to "Auto talk" by pressing ▼ or Set dial mode **(** Auto talk  $\mathbf{V}$ ▶=Yes
- 5 Press ▶ (Yes key).
- 6 Select "On" or "Off" by pressing ▼ or ▲.





•To exit the programming mode, press **OFF**.



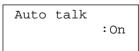
:Off

▶=Save

Auto talk

VA

▶Save directory



- You can exit the programming mode any time by pressing OFF.
- In order to view Caller ID information after you lift the cordless handset off the charger to answer a call, leave the Auto Talk feature OFF.

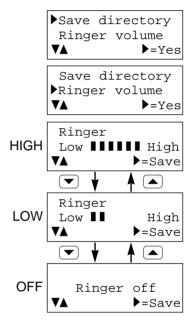
# **Ringer Volume**

You can program the cordless handset and base unit ringer volumes to HIGH, LOW or OFF. If set to OFF, the cordless handset and base unit will not ring. Your phone comes from the factory set to HIGH.

Make sure the base unit and cordless handset are not being used.

#### Cordless Handset

- Press MUTE/FUNCTION.
- 2 Scroll to "Ringer volume" by pressing ▼ or ▲.
- Press ▶ (Yes key).
  - •The current setting is displayed.
- Select the desired volume by pressing vor .
  - Each time you press ▼ or ♠, the volume will change and ring.
  - If you set to OFF, the unit will not ring.
- Press ► (Save key).
  •A beep sounds.



- •You can exit the programming mode any time by pressing **OFF**.
- When you replace the battery, the selected ringer volume setting will return to the factory set (HIGH). Reprogram if necessary.

#### Base Unit

- To select HIGH (preset) or LOW, press RINGER.
   Each time you press the button, the ringer volume will change and ring.
- ●To turn the ringer OFF, press and hold RINGER until 2 beeps sound. "Ringer off" is displayed.
- ullet To turn the ringer ON, press RINGER.

The ringer will sound at the HIGH level.

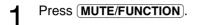


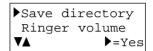
#### **LCD Contrast**

You can program the cordless handset and base unit LCD contrast (5 levels). To make the displays clearer, set to high level. Your phone comes from the factory set to level 3.

Make sure the base unit and cordless handset are not being used.

#### Cordless Handset





2 Scroll to "LCD contrast" by pressing ▼ or ▲.



3 Press ▶ (Yes key).



Select the desired contrast by pressing 
or .



●Each time you press ▼ or ▲, the LCD contrast will change.



- A beep sounds.
- •To exit the programming mode, press **OFF**.



•You can exit the programming mode any time by pressing **OFF**.

# ▶ Programmable Functions

#### Base Unit

Press FUNCTION/EDIT.

Date and time
Save DIRECT#

TA

=Yes

 $2 \quad \text{Scroll to "LCD contrast" by pressing } \mathbf{\nabla} \\ \text{or } \mathbf{\triangle}.$ 



Press ► (Yes key).

•The current setting is displayed.



Select the desired contrast by pressing or .



Each time you press ▼ or ▲, the LCD contrast will change.



- A beep sounds.
- •To exit the programming mode, press (**EXIT**).



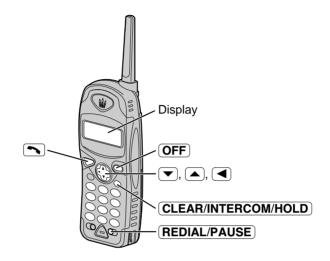
•You can exit the programming mode any time by pressing **EXIT**.

# **Making Calls**



#### Cordless Handset

To have a hands-free conversation, connect an optional headset to the handset (p. 62).



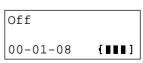
1 Press 🕥.

Talk

- Dial a phone number.
  - •The dialed number is displayed.
  - After a few seconds, the display will show the length of the call and the battery strength.

Talk	
1112222	

To hang up, press **OFF** or place the cordless handset on the charger.



- •"Line in use" is displayed on the base unit while the cordless handset is engaged in an outside call.
- •If the cordless handset has lost communication with the base unit, 3 beeps sound and "No link to base. Walk closer to base & try again" is displayed.

# Making Calls

#### To dial after confirming the entered number

→ Dial a phone number.

•If you misdial, press

(CLEAR/INTERCOM/HOLD) and dial again.

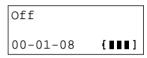
3334444

**?** Press .

• After a few seconds, the display will show the length of the call and the battery strength.

3334444

To hang up, press **OFF** or place the cordless handset on the charger.



#### If noise interferes with the conversation

Press 
to select a clearer channel in the talk or intercom mode, or move closer to the base unit.

To redial the last number dialed on the cordless handset

Press → REDIAL/PAUSE.

To dial after confirming the last number dialed on the cordless handset

Press (REDIAL/PAUSE) → .



#### To put a call on hold

#### Press **CLEAR/INTERCOM/HOLD**.

- •"Line on HOLD." is displayed on the base unit.
- The DIGITAL SP-PHONE indicator flashes.
- If you put a call on hold for more than 6 minutes, an alarm tone will sound. The call will be disconnected after a total of 10 minutes.
- •To transfer the call to the base unit, see page 50.

Line on HOLD. To transfer press INTERCOM.

#### To release the hold

From the cordless handset, press .

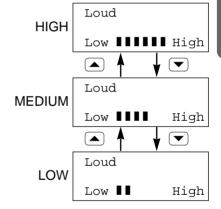
From the base unit, press **DIGITAL SP-PHONE** or lift the handset.

• If another phone is connected on the same line (p. 64), you can also release the hold by lifting its handset.

#### To select the receiver volume

Press ▲ or ▼ while talking.

- Each time you press ▲ or ▼, the volume level will change among 3 levels (HIGH, MEDIUM, or LOW).
- •The display will return to the length of the call.



#### Lighted cordless handset keypad

The cordless handset dialing buttons will light when you press a button or lift the cordless handset off the charger, and flash when a call is received. The lights will go out a few seconds after pressing a button to start operations, lifting the cordless handset or answering a call or pressing a button to complete operations such as hanging up a call, leaving the Caller List/Directory or programming.

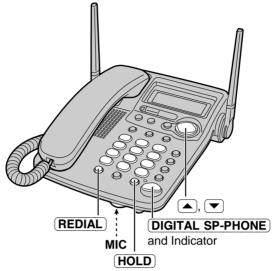
#### **Backlit LCD display**

The lighted cordless handset display will stay on for a few seconds after pressing a cordless handset button or lifting the cordless handset off the charger.

## **▶** Making Calls

#### Base Unit

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



#### Using the speakerphone

- Press **DIGITAL SP-PHONE**.
  - •The indicator lights.

Talk

- Dial a telephone number.
  - The dialed number is displayed.
  - After a few seconds, the display will show the length of the call.

1112222

When the other party answers, talk into the **MIC** (microphone).

00-00-00

Talk

To hang up, press **DIGITAL SP-PHONE**).

•The indicator light goes out.

Off 00-01-08

•"Line in use" is displayed on the cordless handset while the base unit is engaged in an outside call.

#### To redial the last number dialed

Lift the handset or press **DIGITAL SP-PHONE** → **REDIAL**.

#### Hands-free Digital Duplex Speakerphone

- For best speaker performance, use in a quiet room and talk alternately with the caller.
- If the other party has difficulty hearing you, press to decrease the speaker volume. Decreasing the speaker volume will increase the microphone sensitivity.
- You can switch to the handset by lifting it up. To switch back to the speakerphone, press (DIGITAL SP-PHONE).

# To adjust the handset volume (3 levels) or speaker volume (8 levels) while talking

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

•The display shows the volume level for a few seconds.

Ex. Handset volume level: 2

Loud Low IIII High

Ex. Speaker volume level: 3

Line on HOLD.

press INTERCOM.

To transfer

Loud
Low III High

#### To put a call on hold

Press (HOLD).

- •"Line on HOLD." is displayed on the cordless handset.
- The DIGITAL SP-PHONE indicator flashes.
- If using the handset, you can place it on the cradle.
- If you put a call on hold for more than 6 minutes, an alarm tone will sound. The call will be disconnected after a total of 10 minutes.
- •To transfer the call to the cordless handset, see page 50.

#### cradle. tes, an

#### To release the hold

From the base unit:

- —when using the speakerphone, press **DIGITAL SP-PHONE** or lift the handset.
- —when using the handset, press **HOLD**.

From the cordless handset, press .

 If another phone is connected on the same line (p. 64), you can also release the hold by lifting its handset.

#### **Backlit LCD display**

The lighted base unit display will stay after lifting the handset or pressing **DIGITAL SP-PHONE**).

# **Answering Calls**

When a call is received, the unit rings and "Incoming call" is displayed. If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 29). In order to view the Caller ID information, please wait until the second ring to answer a call.

#### Cordless Handset

Press 🔼.

- You can also answer a call by pressing any dialing button (0) to (9), ★ or (#) (—Any Key Talk).
- You can select the ringer volume while a call is being received. Press ▼ or ▲ while the cordless handset is just ringing. To set to OFF, press and hold ▼.

#### **Auto Talk**

If you set the Auto Talk feature to ON (p. 19), you can answer a call by lifting the cordless handset off the charger without pressing .



#### Base Unit

You can answer a call by simply lifting the handset. To hang up, place the handset on the cradle.

#### Using the speakerphone

Press **DIGITAL SP-PHONE**.

•The indicator lights.

Talk into the MIC.

To hang up, press

DIGITAL SP-PHONE.

•The indicator light goes out.



- •You can select the ringer volume while a call is being received. Press **RINGER** while the base unit is just ringing. To set to OFF, press and hold **RINGER**.
- •When the cordless handset and base unit ringer volumes are set to OFF, they will not ring (p. 20).

# **Caller ID Service**

This unit is compatible with a Caller ID service offered by your telephone company. If you subscribe to a Caller ID service, the calling party's information will be shown on the cordless handset and the base unit after the first ring.

The unit can record information of up to 50 different callers, including the time and date received and the number of times called, in the Caller List. The Caller List information is sorted by the most recent call to the oldest. When the 51st call is received, the first call is deleted.

Using the list, you can automatically call back a caller. You can store the callers' names and numbers from the Caller List into the directory.

If you subscribe to both Caller ID and Call Waiting services, when a second call is received while talking, the new caller's name and phone number will be displayed (p. 57).

# How caller information is displayed when a call is received

The displays show the caller's name and number after the first ring.

ROBINSON, TINA

 After you answer the call with the base unit or cordless handset, its display will show the length of the call.



- Caller information cannot be displayed in the following cases:
  - —If the caller dialed from an area which does not provide a Caller ID service, the display will show "Out of area".
  - —If the caller has requested not to display his/her information, the display will show "Private caller".
  - —If a long distance call is identified, and the caller's name and/or number cannot be received, the display will show "Long distance".
- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.
- •The name display service may not be available in some areas. For further information, please contact your telephone company.

# **Using the Caller List**

## Viewing the Caller List

You can view the caller list with the cordless handset or the base unit. Caller List information includes the caller's name and phone number, the time and date the call was received, and the number of times that caller called (p. 31).

Make sure the base unit and cordless handset are not being used.

#### Cordless Handset

- Press or to enter the Caller List.
  - The display will show, for example, the following.

- To search from the most recent call, press ▼.

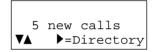
  To search from the oldest call, press ▲.
  - To scroll between callers, press
    ▼ or ▲.

```
SMITH, JACK
1-222-333-4444
3:10P JUN.10
```

**Q** To exit the list, press **OFF**.

#### Base Unit

- Press or to enter the Caller List.
  - The display will show, for example, the following.



- To search from the most recent call, press .

  To search from the oldest call, press .
  - To scroll between callers, press▼ or ▲.

```
SMITH, JACK
1-222-333-4444
3:10P JUN.10
```

To exit the list, press **EXIT**.

- •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.
- •Once new calls have been checked, " $\sqrt{}$ " will be added.
- While you are viewing the Caller List with the cordless handset, another person cannot access the list using the base unit, and vice versa.



#### What "√" means

When the display shows " $\sqrt{}$ ", you have already viewed this calling information, answered the call or called back the caller. If the same caller calls again, the call entry with " $\sqrt{}$ " will be replaced with the new call entry.

SMITH, JACK 1-222-333-4444 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 time and date of the most recent call will be recorded. After checking, " $\times$ 2" to " $\times$ 9" will be replaced with " $\sqrt{}$ ".

TURNER, CINDY 1-234-456-7890 11:20A JUN.12 ×2

# Calling Back from the Caller List

#### Cordless Handset

Press or to enter the Caller List

pressing  $\checkmark$  or  $\blacktriangle$ .



Scroll to the desired caller by

TURNER, CINDY 1-234-456-7890 11:20A JUN.12 ×2

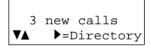
Press .

•The displayed phone number is dialed automatically.

> Talk 12344567890

#### Base Unit

Press or to enter the Caller List



Scroll to the desired caller by pressing  $\checkmark$  or  $\blacktriangle$ .

> TURNER, CINDY 1-234-456-7890 11:20A JUN.12 ×2

- Press **DIGITAL SP-PHONE** or lift the handset.
  - •The displayed phone number is dialed automatically.

Talk 12344567890

- •In some cases, you may have to edit the number before dialing (p. 32, 33). (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.

# **Editing the Caller's Phone Number**

You can edit a phone number into one of 3 patterns to call back or store it into the directory.

#### The Caller ID Number Auto Edit Feature (p. 34)

This feature will allow the unit to edit a Caller ID number into one of 3 patterns you desired for you automatically in the Caller List. For detail and activation, please see page 34.

Make sure the base unit and cordless handset are not being used.

#### Cordless Handset

- ↑ Press ▼ or ▲ to enter the Caller List.
- Scroll to the desired caller by pressing 

  ▼ or ♠, and press ▶.
- **Q** Press ▶ (Yes key) at "Edit".
- Press (Edit key) to select a pattern.
  - ◆Each time you press ► (Edit key), the number is rearranged into one of 3 patterns.
  - (a) Phone no. (7 digit pattern)
  - (10 digit pattern)
  - © 1-Area code -Phone no. (11 digit pattern) ©
  - The order in which patterns (a)—(c) are displayed depends on how the telephone number is displayed in step 3.

5 new calls

PARKER, FRED

PARKER, FRED 1-234-321-5555

▶Edit

**V**=Next

 $\mathbf{A}$ 

1-234-321-555511:20A JAN.12  $\sqrt{\phantom{0}}$ 

Save directory

▶=Directory

▶=Yes

▶=Edit

After editing the number, you can continue with calling back or storing procedures.

To call back, press (p. 31).

To store the number in the directory, press  $\blacktriangledown$  (Next key). Follow the instructions on the display (p. 36). (If the caller has no name information, see page 36, from step 3.)



#### Base Unit

- Scroll to the desired caller by pressing or , and press FUNCTION/EDIT.
- 5 new calls
  ▼▲ ▶=Directory

  PARKER,FRED
  1-234-321-5555

11:20A JAN.12 √

- Press **FUNCTION/EDIT** to select a pattern.
  - Each time you press FUNCTION/EDIT, the number is rearranged into one of 3 patterns.
  - (a) Phone no. (7 digit pattern)
  - (a) Area code Phone no. (10 digit pattern)
  - © 1-Area code Phone no. (11 digit pattern)
  - •The order in which patterns (a)—(c) are displayed depends on how the telephone number is displayed in step 2.
- (a) PARKER, FRED 321-5555

  (b) PARKER, FRED 234-321-5555

  (c) PARKER, FRED 1-234-321-5555

After editing the number, you can continue with calling back. Press **DIGITAL SP-PHONE** or lift the handset (p. 31).

## Using the Caller List

#### The Caller ID Number Auto Edit Feature

#### (Cordless Handset)

There are 3 patterns of phone number (a), b), and c), p. 32, 33). This feature allows your phone to automatically edit an in-coming Caller ID number into one pattern you preferred, and display the Caller ID number with that pattern on the base unit and cordless handset automatically.

After this feature is activated, Caller ID numbers coming from considered area codes (201, for example), from which the Caller ID numbers have been chosen to follow the desired pattern (7 digit pattern, for example), will be automatically edited from other patterns (11 digit pattern, for example) into the same pattern you have previously selected (which is 7 digit pattern, in the example).

Up to 4 area codes are allowed for this feature for pattern (a) and (b) (p. 32, 33). The Caller ID numbers can be edited automatically on the base unit and the cordless handset separately. Changes made on the cordless handset cannot be used to make a call with the base unit and vice versa.

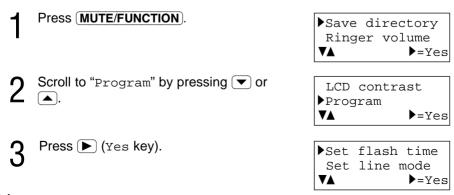
To activate this feature, you must 1) set this feature to on, and 2) make an out-going call from Caller List (p. 31) with a number which has one of 3 patterns that you have edited with considered area code, and that you prefer to be followed by future Caller ID numbers, so that in the future all the Caller ID numbers coming from the same area code will be displayed in the same pattern.

The Caller ID number Auto Edit feature is preset to ON at factory.

• If you fail to reach your destination when making the call, the phone number you dialed might have an incorrect pattern, please edit the phone number with another pattern (p. 32, 33).

For example, if you move to another area, you may need to turn this feature to OFF to erase previously edited area codes. Then, if still need, you may activate this feature again.

Make sure the base unit and cordless handset are not being used.



:Off



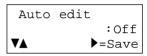
- Scroll to "Caller ID edit" by pressing or .
- ►Caller ID edit

  ▼▲ ►=Yes

5 Press ▶ (Yes key).



Select "On" or "Off" by pressing ▼ or ▲.



- 7 Press ▶ (Save key).
  - ave **key).** Auto edit
  - A beep sounds.
  - •To exit the programming mode, press **OFF**.
- When the feature is set to OFF, the unit will still be able to display Caller ID, like regular Caller ID telephone, but the in-coming Caller ID number will not be edited by pattern and by area codes.

# Storing Caller List Information in the Directory Cordless Handset

You can store phone numbers that are in the Caller List into the directory. Storing must be carried out with the cordless handset.

Make sure the base unit and cordless handset are not being used.

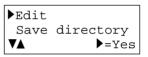
- ↑ Press ▼ or ▲ to enter the Caller List.
- 2 Scroll to the caller you want to store in the directory by pressing ▼ or ▲, and press ▶.
  - •If the number requires editing, see page 32.
- Scroll to "Save directory" by pressing or A, and press (Yes key).

If there is no name information for the caller, "Enter name" will be displayed.

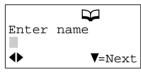
- a) If a name is not required, press ▼ (Next key) and ▶ (Save key).
- b) If a name is required, enter the name
   (p. 41). When finished, press ▼ (Next key) and ► (Save key).
- A beep sounds.
- To continue storing other items, repeat from step 2.
- ◆To exit the programming mode, press OFF.

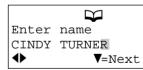


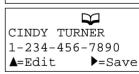
TURNER, CINDY 1-234-456-7890 11:20A JUN.12 ×3











- •You can exit the programming mode any time by pressing **OFF**.
- •If the display shows "Directory full" in step 3, press **OFF** to exit the list. To erase other stored items from the directory, see page 46.
- After the maximum of 50 items has been stored, "Directory full" is also displayed.
- You cannot store caller information in the directory if a phone number is not displayed.
- •If 3 beeps sound and display shows "Save error" in step 3, move closer to the base unit and start again from step 2.



### **Erasing Caller List Information**

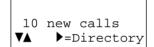
After checking the Caller List, you can erase some or all of the entries with the cordless handset or base unit.

Make sure the base unit and cordless handset are not being used.

### To erase a specific caller from the Caller List

#### Cordless Handset

Press ▼ or ▲ to enter the Caller List.



Scroll to the caller you want to erase from the Caller List by pressing vor .

REAGAN,TOM 1-888-777-6666 12:20A JAN.12 √

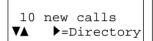
Press CLEAR/INTERCOM/HOLD.

Clear

- •A beep sounds and the information is erased.
- •To erase other items, repeat from step 2.
- •To exit the Caller List, press **OFF**).

#### Base Unit

Press or to enter the Caller List.



Scroll to the caller you want to erase from the Caller List by pressing ▼ or ▲.

REAGAN, TOM 1-888-777-6666 12:20A JAN.12 √

Press CLEAR.

Clear

- A beep sounds and the information is erased.
- •To erase other items, repeat from step 2.
- ●To exit the Caller List, press **EXIT**.

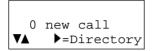
### **▶** Using the Caller List

#### To erase all entries in the Caller List

Before erasing all entries, make sure that "0 new call" is displayed.

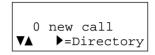
#### Cordless Handset

Press or to enter the Caller List



#### Base Unit

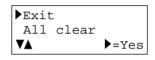
Press or to enter the Caller List



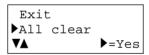
Press CLEAR/INTERCOM/HOLD.



Press (CLEAR).



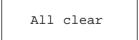
Scroll to "All clear" by pressing  $\checkmark$  or  $\blacktriangle$ .



Scroll to "All clear" by pressing  $\checkmark$  or  $\blacktriangle$ .



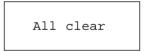
Press ► (Yes key) or CLEAR/INTERCOM/HOLD.



- are erased. •The cordless handset will exit the Caller List.

•A beep sounds and all entries

Press (▶) (Yes key) or CLEAR .



- A beep sounds and all entries are erased.
- The base unit will exit the Caller List.

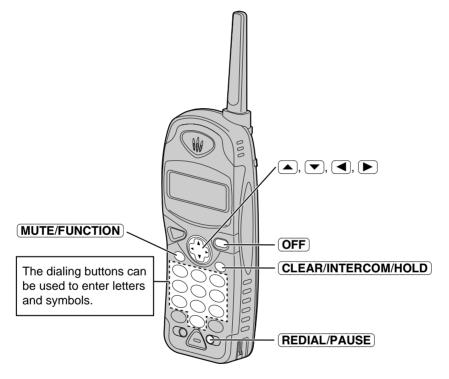
You can store up to 50 names and phone numbers in the directory using the cordless handset. All directory items are sorted by the first word in alphabetical order.

Using the directory, you can make a call by selecting a name on the display of the cordless handset or base unit.

### Storing Names and Numbers Cordless Handset

Storing must be carried out with the cordless handset.

Make sure the base unit and cordless handset are not being used.



Press MUTE/FUNCTION).

PSave directory
Ringer volume

▼▲
P=Yes

Press ► (Yes key) at "Save directory".

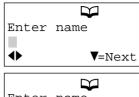
• The display shows the number of stored items in the directory.

Directory=
20 items

(Continued →)

### Directory

- Enter a name, up to 15 characters, with the dialing buttons, ◀ or ▶.
  - See the steps for entering names and symbols (p. 41).
  - If a name is not required, press ▼ (Next key) and go to step 5.



Enter name
Tom Jones

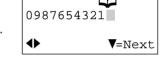
▼=Next

Press (Next key).

- Enter phone no.
- Enter a phone number, up to 22 digits.

  Each time you press
  CLEAR/INTERCOM/HOLD, a digit is erased.
  To erase all of the digits, press and hold
  CLEAR/INTERCOM/HOLD.

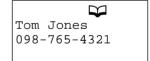
To move the cursor, press (◄) or (►).



- Press ▼ (Next key).
  - If you want to change the storing name or number, press (Edit key) repeatedly to reach the desired display and change it.



- 7 Press (Save key).
  - •A beep sounds.
  - •To continue storing other items, repeat from step 2.
  - •To exit the programming mode, press (**OFF**).



- •If a pause is required for dialing, (REDIAL/PAUSE) can be stored in a phone number counting as one digit (p. 57) in step 5.
- •You can exit the programming mode any time by pressing **OFF**.
- •If the display shows "Directory full" in step 2, the display will return to step 1. Press **OFF** to exit the list. To erase other stored items from the directory, see page 46.
- After the maximum of 50 items has been stored, "Directory full" is also displayed.
- •If an alarm tone sounds in step 7, the item cannot be stored in the directory. Press (**OFF**) and try again from step 1.



### **Entering Names and Symbols Cordless Handset**

The cordless handset dialing buttons (0 to 9) can be used to enter letters and symbols. The letters are printed on the dialing buttons. Pressing each button selects a character as shown below.



	Number of times key is pressed										
Keys	1	2	3	4	5	6	7	8	9	10	11
1	#	&	,	(	)	*	,	_	•	/	1
2	а	b	С	Α	В	С	2				
3	d	е	f	D	Е	F	3				
4	g	h	i	G	Н	I	4				
5	j	k	I	J	K	L	5				
6	m	n	0	М	N	0	6				
7	р	q	r	s	Р	Q	R	S	7		
8	t	u	V	Т	U	V	8				
9	w	х	у	z	W	Х	Υ	Z	9		
0	0	Blank									
•	To move the cursor to the left.										
<b>•</b>	To move the cursor to the right.										

<sup>•</sup>To enter another character using the same dialing button, press ► to move the cursor to the next space.

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

Use **◄** or **▶** to move the cursor to the incorrect character, press CLEAR/INTERCOM/HOLD to delete and enter the correct character. Each time you press (CLEAR/INTERCOM/HOLD), a character is erased. To erase all characters, press and hold (CLEAR/INTERCOM/HOLD).

#### For example, to enter "Tom Jones":

Press (8) four times.

Press (6) three times, then press (>).

23 Press 6 once, then press btwice.

Press (5) four times, press (6) three times, then press (>).

Press (6) twice, press (3) twice, then press 7 four times.

 $\mathbf{T}$ 

To

Tom

Tom Jo

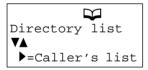
Tom Jones

### Finding Stored Items Cordless Handset Base Unit

You can search the directory using the cordless handset or the base unit. " " is displayed only on the cordless handset display.

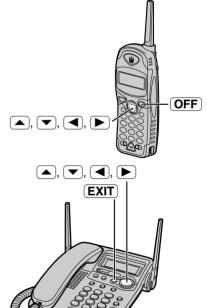
Make sure the base unit and cordless handset are not being used.

Press ◀ or ▶ to enter the directory list.



- You can go to the Caller List by pressing (p. 30).
- Press ▼ or ▲. •The first item is displayed.



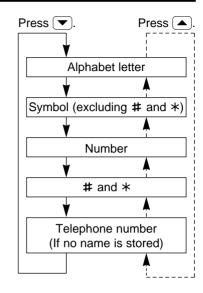




- Scroll to the desired item by pressing ▼ or ▲.
  - All directory items are stored in the order shown on the right.

#### To search for a name by initial

- ① 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.
- ② Press repeatedly until the name is displayed.



- ●You can exit the directory list any time by pressing **OFF** or **EXIT**.
- ullet If "No items stored" is displayed in step 2, the directory is empty.

#### Index table

Keys	Index	Keys	Index
1	Other 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

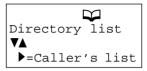
### Directory

### Dialing Cordless Handset Base Unit

"  $\stackrel{\square}{\triangleright}$ " is displayed only on the cordless handset display.

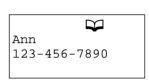
Make sure the base unit and cordless handset are not being used.

Press or to enter the directory list.



Press ▼ or ▲.

•The first item is displayed.



3 Scroll to the desired item that you want to dial by pressing ▼ or ▲.

•To search for the item by initial, see page 43.



Cordless handset:

Press .

Base unit:

Press **DIGITAL SP-PHONE**, or lift the handset.

•The number is dialed automatically.

Talk 4567890

To hang up,

**Cordless handset:** 

Press **OFF** or place the cordless handset on the charger.

Base unit:

Press **DIGITAL SP-PHONE**, or place the handset on the cradle.

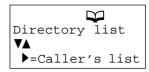
You can exit the directory list any time as follows:
 When using the cordless handset, press OFF.
 When using the base unit, press EXIT.



### Editing Cordless Handset

Make sure the base unit and cordless handset are not being used.

**1** Press **●** or **▶** to enter the directory list.

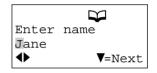


Press ▼ or ▲.

•The first item is displayed.

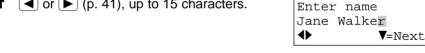


- Scroll to the directory item you want to change by pressing ▼ or ▲, and press ▶.
  - •To search for the item by initial, see page 43.
  - If you do not need to change the name, go to step 5.



 $\mathbf{M}$ 

Edit the name using the dialing buttons, or (p. 41), up to 15 characters.







- Add a number to the current number.
  - If you do not need to change the number, press ▼ (Next key) and go to step 8.
  - Each time you press
     CLEAR/INTERCOM/HOLD), a digit is erased.
     To erase all of the digits, press and hold
     CLEAR/INTERCOM/HOLD.
  - To move the cursor, press ◀ or ►.



(Continued →)

### Directory

7 Press ▼ (Next key).

 If you want to change the storing name or number, press (Edit key) repeatedly to reach the desired display and change it.

**Q** When finished, press ▶ (Save key).

A beep sounds.

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

•To exit the directory list, press **OFF**.

Jane Walker 1-234-456-7890 ▲=Edit ▶=Save

Jane Walker 1-234-456-7890

•You can exit the edit mode any time by pressing **OFF**.

### Erasing Cordless Handset Base Unit

"  $\checkmark$ " is displayed only on the cordless handset display.

Make sure the base unit and cordless handset are not being used.

Press or to enter the directory list.

Press ▼ or ▲.

•The first item is displayed.

Scroll to the directory item that you want to erase by pressing vor .

•To search for the item by initial, see page 43.

Directory list

A

-Caller's list

Ann 123-456-7890

Helen 1-234-567-8901

4 Cordless handset:
Press CLEAR/INTERCOM/HOLD.

Base unit: Press CLEAR.

To stop erasing, press (◄) (No key).

Clear?

◀=No ▶=Yes

5 Cordless handset: Press ▶ (Yes key) or

CLEAR/INTERCOM/HOLD.

Base unit:

Press (►) (Yes key) or (CLEAR).

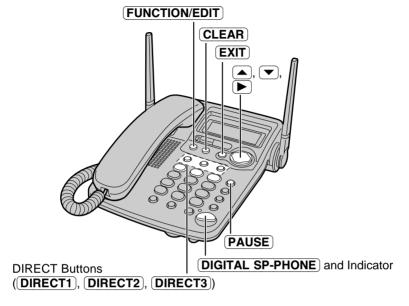
A beep sounds.

You can exit the directory list any time as follows:
 When using the cordless handset, press OFF.
 When using the base unit, press EXIT.

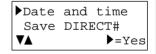


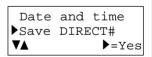
### Storing Phone Numbers in Memory Base Unit

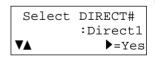
You can store up to 3 phone numbers in the DIRECT buttons. Make sure the base unit and cordless handset are not being used.



- Press **FUNCTION/EDIT**.
- Scroll to "Save DIRECT#" by pressing ▼ or (\_
- Press (Yes key).
- Scroll to the desired direct button by pressing  $\checkmark$  or  $\blacktriangle$ .
  - You can select the desired direct button by pressing dialing buttons (1) (DIRECT1), (DIRECT2) or (3) (DIRECT3).





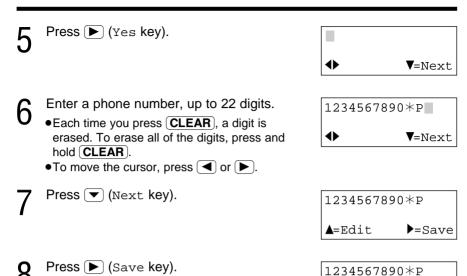


Select	DIRECT#
	:Direct2
$\blacktriangledown$ <b>A</b>	▶=Yes

(Continued →)

Advanced Operation

### One-Touch Dialer



•If a pause is required for dialing, **PAUSE** can be stored in a phone number counting as one digit (p. 57) in step 6.

Save DIRECT2

•You can exit the programming mode any time by pressing **EXIT**).

•To store other numbers, repeat from step 4.

•To exit the programming mode, press **EXIT**.

#### To erase a stored number

Repeat steps 1 through 5 → press and hold CLEAR until all of the digits are erased → (Next key) → (Save key).

### Dialing Base Unit

A beep sounds.

- Press the required DIRECT button (**DIRECT1**), **DIRECT2** or **DIRECT3**).
  - If 3 beeps sound, you have not stored the phone numbers in the DIRECT buttons. Store the number.
  - ●The DIGITAL SP-PHONE indicator lights.
  - •The stored number is dialed.
- Numbers stored in the base unit can only be dialed by the base unit.
- •You can also dial the stored number by pressing **DIGITAL SP-PHONE** or lifting the handset then pressing the DIRECT button.



#### Cordless Handset Base Unit

A 2-way intercom is possible between the cordless handset and the base unit.

#### Paging the base unit from the cordless handset

Cordless handset:
Press CLEAR/INTERCOM/HOLD.
Talk to the paged party after the beeps.

•"Intercom" is displayed.

Base unit:

When the other party's voice is heard, lift the handset or talk into the **MIC**.

To end the intercom, press

OFF on the cordless
handset.
OR



When using the handset, place the handset on the cradle. When using the speakerphone, press (LOCATOR/INTERCOM).

## Paging the cordless handset from the base unit (Handset locator)

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

#### → Base unit:

Lift the handset and press **LOCATOR/INTERCOM** within 5 seconds.

- The cordless handset beeps for 1 minute and displays "Paging Press INTERCOM".
- •To stop paging, place the handset on the cradle.

#### → Cordless handset:

Press (CLEAR/INTERCOM/HOLD) to answer.

•"Intercom" is displayed.

#### Base unit:

Talk into the handset.

To end the intercom, press **OFF** on the cordless handset. OR

Place the handset on the cradle.

- •In step 1, the base unit user can also page by pressing **LOCATOR/INTERCOM** directly. You do not need to lift the handset.
  - —If the cordless handset user does not answer, press (LOCATOR/INTERCOM) to stop paging.
  - —If the cordless handset user answers, talk into the **MIC**.

To end the intercom from the base unit, press **LOCATOR/INTERCOM**.

#### During an intercom call:

- If the cordless handset user has difficulty hearing the base unit user, decrease the base unit speaker volume by pressing .
- If an incoming call is received, the intercom call stops and the unit starts to ring. To answer, press , DIGITAL SP-PHONE or place the handset and lift it again. The intercom is ended.

### Transferring a Call Using the Intercom

Cordless Handset Base Unit

The intercom can be used during a call. This feature enables you to transfer a call between the cordless handset and the base unit.

#### From the cordless handset to the base unit

- Cordless handset: During a call, press CLEAR/INTERCOM/HOLD.
  - The call is put on hold and "Line on HOLD. To transfer press INTERCOM." is displayed.
- Press CLEAR/INTERCOM/HOLD again. Talk to the paged party after the beeps.

Line on HOLD. >=Conference Intercom [III]

- •If the base unit user does not answer, press ( to return to a call.
- Base unit: When the other party's voice is heard. lift the handset or talk into the MIC.
- To complete the transfer: -when using the handset, press **OFF** on the cordless handset.
  - -when using the speakerphone, press DIGITAL SP-PHONE.

#### From the base unit to the cordless handset

- Base unit: During a call, press LOCATOR/INTERCOM.
  - •The call is put on hold and DIGITAL SP-PHONE indicator flashes.
  - If the cordless handset user does not answer:
    - —when using the handset, press LOCATOR/INTERCOM),
      - then press (HOLD) to return to a call.
    - —when using the speakerphone, press **DIGITAL SP-PHONE** to return to a call.
- 2 Cordless handset: Press

**CLEAR/INTERCOM/HOLD** to answer the page.

> Line on HOLD. >=Conference Intercom

- To complete the transfer: -when using the handset, place the handset on the cradle.
  - -when using the speakerphone, press on the cordless handset.

### **Conference**

While you are talking with an outside caller, you can call the base unit or cordless handset to make a conference call.

#### Cordless Handset

# Cordless handset: During a call, press CLEAR/INTERCOM/HOLD.

- The call is put on hold and "Line on HOLD.
   To transfer press INTERCOM." is displayed.
- Press
  CLEAR/INTERCOM/HOLD
  again. Talk to the paged party
  after the beeps.

- If the base unit user does not answer, press to return to a call.
- Base unit:
  When the other party's voice is heard, lift the handset or talk into the MIC.
- 4 Press (Conference key) to make a conference call on the cordless handset or the base unit.

#### (Base Unit)

# Base unit: During a call, press LOCATOR/INTERCOM.

- The call is put on hold and DIGITAL SP-PHONE indicator flashes.
- If the cordless handset user does not answer:
  - —when using the handset, press LOCATOR/INTERCOM), then press (HOLD) to return to a call.
  - —when using the speakerphone, press DIGITAL SP-PHONE to return to a call.
- 2 Cordless handset:

## **CLEAR/INTERCOM/HOLD** to answer the page.

Line on HOLD.

▶=Conference
Intercom

- Press (Conference key) to make a conference call on the cordless handset or the base unit.
- During a conference, the outside call can be placed on hold by pressing CLEAR/INTERCOM/HOLD on the cordless handset or (HOLD) on the base unit. Internal communications between extensions are not suspended. To resume the conference, press ► (Conference key) on the cordless handset or the base unit.
- To leave the conference.
  - —For the cordless handset; press OFF or place the cordless handset on the charger.
  - -For the base unit;

When talking with the speakerphone, press (**DIGITAL SP-PHONE**). When talking with the handset, place the handset on the cradle. The two other parties can continue the conversation.

### **Voice Mail Service**

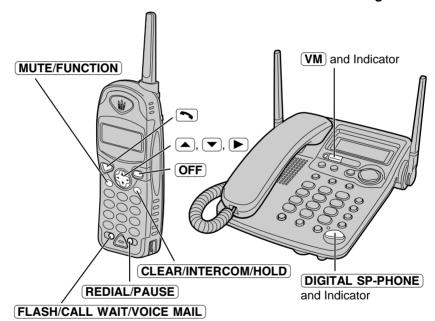
Voice mail service is an electronic on-line answering system offered by your telephone company. After subscribing, the voice mail system can answer calls automatically for you when your line is busy or if calls are not answered, and caller can leave their messages at the voice mail box virtually located at the telephone company. After the voice mail box having received messages, the unit will indicate it in two ways: (a) "Voice mail" and " " will display, and (b) the VM (Voice mail) indicator on the base unit will flash.

To use this feature, you must first store your access number.

### **Storing a Voice Mail Access Number**

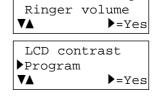
Cordless Handset

Make sure the base unit and cordless handset are not being used.



Press MUTE/FUNCTION).

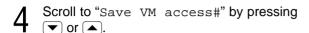
**2** Scroll to "Program" by pressing ▼ or ▲.



▶Save directory







- Fress ▶ (Yes key).
- Enter your access number, up to 32 digits.
  - ●You may enter pauses\* (see below).
  - Each time you press
     CLEAR/INTERCOM/HOLD, a digit is erased.
     To erase all of the digits, press and hold
     CLEAR/INTERCOM/HOLD.
     To move the cursor, press ◀ or ▶.
- **7** Press ▼ (Next key).
  - If you want to edit the entered number, press
     (Edit key) and return to step 6.
- Press ▶ (Save key).
  - A beep sounds.
  - ●To exit the programming mode, press OFF.

▶Set flash time
Set line mode
▼▲ ▶=Yes

►Save VM access# VM tone detect ▼▲ ►=Yes







1234567PPP8901

Save VM access#

•You can exit the programming mode any time by pressing **OFF**.

\*For quick access to your voice mail box by using

[FLASH/CALL WAIT/VOICE MAIL] or [VM], you may add pauses between your voice mail box access number and your mail box password in step 6.

Ex. 1-222-333-4444 PPP 8888

Your voice mail box access number Your mail box password

Pressing **REDIAL/PAUSE** once creates a 3.5 second delay and counts as one digit. The delay time depends on a telephone company.

#### To erase a stored number

Repeat steps 1 through 5 → press and hold **CLEAR/INTERCOM/HOLD** until all of the digits are erased → **(Next key)** → **(Save key)**.

A beep sounds.

### •

### **Setting the Voice Mail (VM) Tone Detection**

#### Cordless Handset

Your telephone company sends special signals (Voice mail tones) to activate the VM indicator.

Press or **DIGITAL SP-PHONE** to listen to the dial tone. If you hear a series of dial tones followed by a continuous dial tone, this is indication that a new message was recorded.

Your phone comes set to detect these tones (set to "On"). Minutes after you hang up or after the phone stops ringing, your unit will seize the phone line and check if a message has been recorded. If a new message was recorded at your telephone company, "Voice mail" and " " will be displayed and the base unit VM (Voice mail) indicator will flash.

Set this programming to "Off" when:

- —you do not subscribe to a voice mail service.
- —your telephone company does not send a series of tones, followed by a continuous tone, or
- —your phone is connected to a business or office telephone system (PBX). Please refer to below to set this programming to OFF.

If you are not sure which setting is required, consult your local telephone company or contact Panasonic Customer Call Center.

Make sure the base unit and cordless handset are not being used.

"Program" by pressing ▼ or ▲, and press ▶ (Yes key).
Scroll to "VM tone detect" by pressing ▼ or ▲.
Press ▶ (Yes key).
The current setting is displayed.

Press (MUTE/FUNCTION), scroll to

Press ► (Save key).

• A beep sounds.
• To exit the programming mode, press OFF.

Select "On" or "Off" by pressing ▼ or ▲.

LCD contrast Program VA. ▶=Yes Save VM access# ▶VM tone detect **V**A >=Yes VM tone detect :On lacktriangle▶=Save VM tone detect :Off VA ▶=Save

VM tone detect

:Off

•You can exit the programming mode any time by pressing **OFF**.

### **Listening to Voice Mail Messages**

After the voice mail box having received messages, the unit will indicate it in two ways: (a) "Voice mail" and "\sum " will display, and (b) the VM (Voice mail) indicator on the base unit will flash. To listen to your voice mail message(s), follow the steps below.

#### Cordless Handset

- Press FLASH/CALL WAIT/VOICE MAIL.
  - •The stored voice mail access number is displayed (p. 52, 53).

1234567PPP8901

Press .

 The cordless handset automatically dials the access number. Talk 1234567PPP8901

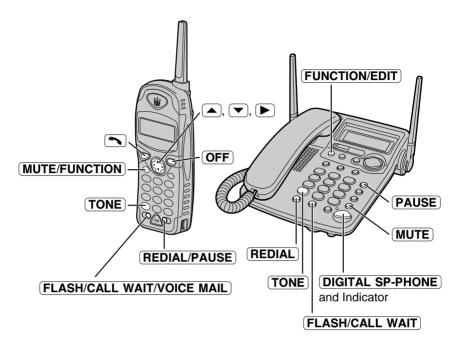
- **?** Follow the pre-recorded instructions.
- When finished, press **OFF**.

#### Base Unit

Press VM.

- The base unit is connected to the telephone line and automatically dials the access number.
- •If 3 beeps sound, you have not stored the voice mail access number. Store the number (p. 52, 53).
- **9** Follow the pre-recorded instructions.
- **Q** When finished, press **DIGITAL SP-PHONE**.
- ●If "Voice mail" and " ☑ " still remain on the display, the VM (Voice mail) indicator on the base unit still flashes even if you have listened to your voice mail message(s), press MUTE/FUNCTION, and press and hold CLEAR/INTERCOM/HOLD until the unit beeps. "Voice mail" and " ☑ " will disappear and the VM (Voice mail) indicator will turn off.
- •If your voice mail service uses a voice mail tone and the recorded message is over 3 minutes long, "Voice mail" and " ✓ " may not be displayed, the VM (Voice mail) indicator may not flash.
- If your voice mail service uses a voice mail tone, the tone will be heard from any parallel connected phone. If you use another phone to retrieve messages, you have to dial your access number manually.

### **Special Features**



# **Temporary Tone Dialing** (For Rotary or Pulse Service Users)

Cordless Handset Base Unit

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 mode will return to pulse.

### **Muting Your Conversation**

Cordless Handset Base Unit

#### **Cordless handset:**

Press **MUTE/FUNCTION** while talking.

●"<MUTE>" flashes.

#### Base unit:

Press (MUTE) while talking.

- ●"<MUTE>" flashes.
- •The other party cannot hear your voice but you can hear theirs.
- ◆To release the mute, press MUTE/FUNCTION on the cordless handset or MUTE on the base unit.



### For Call Waiting Service Users

Cordless Handset Base Unit

Press FLASH/CALL WAIT/VOICE MAIL or 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/VOICE MAIL or FLASH/CALL WAIT again.
- •The call waiting service cannot be used when a parallel connected telephone is
- •If this function does not operate properly, consult your telephone company for details

#### **Call Waiting Caller ID Feature**

Call Waiting Caller ID Feature allows the unit to display the second caller's information. After you hear a call-waiting tone while talking, the unit will display the caller's name with the phone number and "----Waiting----".

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

• Please contact your telephone company for details and availability in your area.

### How to Use the PAUSE Button

(For PBX Line/Long Distance Calls)

Cordless Handset Base Unit

We recommend you press [REDIAL/PAUSE] or [PAUSE] 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) → Phone number
- Pressing (REDIAL/PAUSE) or (PAUSE) once creates a 3.5 second pause. This prevents misdialing when you redial or dial a stored number.
- Pressing REDIAL/PAUSE or (PAUSE) more than once increases the length of the pause between numbers.

### Special Features

### FLASH Button Cordless Handset Base Unit

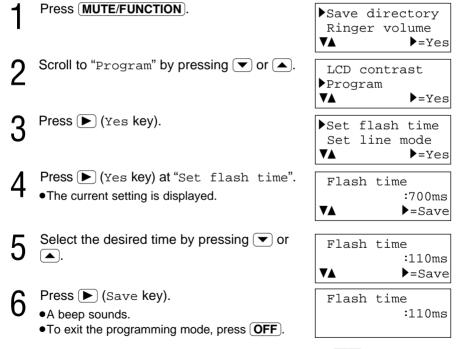
Pressing **FLASH/CALL WAIT/VOICE MAIL** or **FLASH/CALL WAIT** allows you to use special features of your host PBX such as transferring an extension call or accessing special telephone services (optional) such as call waiting.

- Pressing (FLASH/CALL WAIT/VOICE MAIL) or (FLASH/CALL WAIT) causes to release following operations:
  - -temporary tone dialing,
  - -muting your conversation.

### Selecting the flash time Cordless 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)". Your phone comes from the factory set to "700 ms".

Make sure the base unit and cordless handset are not being used.



- You can exit the programming mode any time by pressing OFF.
- •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 setting.

### Security Code Setting Cordless Handset & Base Unit

If "No link to base. Walk closer to base & try again" is displayed even if you use the cordless handset near the base unit, the cordless handset may lose communication with the base unit. It is necessary to set the same security code between the base unit and cordless handset. Follow the steps below.

Base unit:
Press FUNCTION/EDIT.

Date and time
Save DIRECT#

▼▲ D=Yes

- **9** Press **7**, **3**, then **4**.
  - No sound is present each time you press the dialing button. Confirm that the display on the right will be shown after pressing the buttons.

Portable Registering

Gordless handset:
Press MUTE/FUNCTION).

▶Save directory
Ringer volume
▼▲ ▶=Yes

- / Press 7, 3, then 4.
  - No sound is present each time you press the dialing button. Confirm that the display on the right will be shown after pressing the buttons.
  - After the setting is completed, "Portable Registered" is displayed and a beep sounds from the base unit and cordless handset.

Portable Registering

•3 beeps sound and "Error!!" is displayed when you fail to set the security code. Try again from step 1.

### **Wall Mounting**

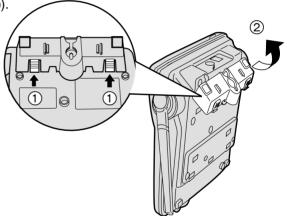
#### Base unit

The base unit can be mounted on a wall phone plate.

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

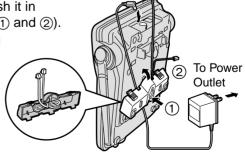


Press the tabs in the direction of the arrows (1), then remove the wall mounting adaptor (2).

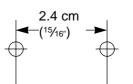


Gonnect the AC adaptor. Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow (1) and 2).

•The word "UP WALL" should face upward.



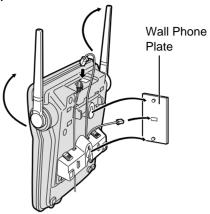
Wall Template for the Charger Unit

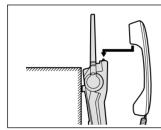


Connect the telephone line cord.

Mount the base unit, then slide down.

• Raise the antennas.

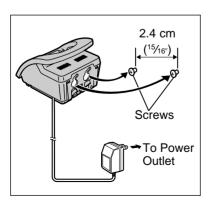


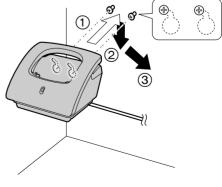


To temporarily set the handset down during a conversation, place it as shown here.

#### Charger unit

The charger can be wall mounted. Connect the AC adaptor. Install screws using the wall template (p. 60). Mount the charger (1). Slide it down (2), then slide down to the right (3) until it is secured.

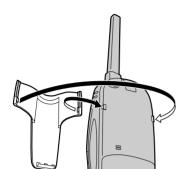




### **Belt Clip**

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



### **Optional Headset**

Plugging an optional headset into the cordless handset allows a handsfree phone conversation. Please use only the Panasonic KX-TCA88 headset. To order, call the accessories telephone number on page 2.

### Connecting the optional headset to the cordless handset

Open the headset jack cover, and connect the optional headset to the headset jack as shown below.



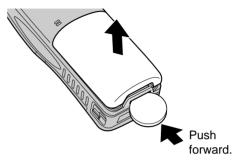


When the optional headset is connected to the cordless handset, make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

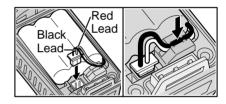
### **Battery Replacement**

If "Recharge battery" is displayed and/or " [ ■ ]" flashes after a few telephone calls even if the battery was fully charged, replace the battery with a new Panasonic PQP510SVC (P-P510) battery. To order, call the accessories telephone number on page 2.

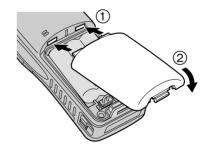
Carefully insert a flat metal object in the slot, and push forward to release the lock. Remove the cordless handset cover.



Replace the battery. Then place the battery leads inside the groove, otherwise the leads may be damaged when closing the cover.



**Q** Close the cover.



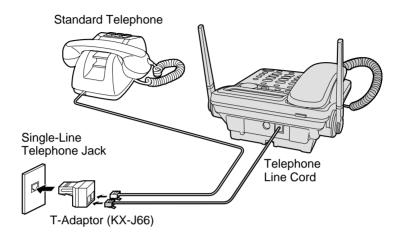
4 Make sure you charge the new battery for about 15 hours in order to display the battery strength prompt correctly (p. 11).

A nickel cadmium battery that is recyclable powers the product you have purchased. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.



### **Adding Another Phone**

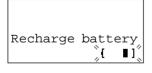
This unit will not function during a power failure. To connect a standard telephone on the same line, use the Panasonic T-adaptor KX-J66. To order, call the accessories telephone number on page 2.



### If the Following Appear...

If the unit detects a problem, one of the following messages will be displayed on the cordless handset or the base unit.

### Cordless handset display



The battery needs to be charged. Place the cordless handset on the charger to charge the battery (p. 12).

No link to base. Walk closer to base & try again The cordless handset has lost communication with the base unit. Move closer to the base unit and try again.



When trying to store an item or Caller List information in the directory, the directory memory is full (p. 36, 40). To erase other stored items from the directory, see page 46.

Base in use

While the base unit was being used, vor was pressed to search the Caller List/directory list, was pressed to select an option or CLEAR/INTERCOM/HOLD was pressed.

Save error

While storing items in the directory, the cordless handset has lost communication with the base unit. Move closer to the base unit and try again.

Line in use

**[ | | | | |** ]

The display will be shown while the base unit is engaged in an outside call.

#### Base unit display

When the clock needs adjusting, the time and date flashes. Adjust the clock (p. 13).

Line in use

The display will be shown while the cordless handset is engaged in an outside call.

Portable in use

While the cordless handset was being used, or was pressed to search the Caller List/directory list or FUNCTION/EDIT or VM was pressed.

## **Troubleshooting**

### **Cordless handset**

Problem	Cause and Remedy
"No link to base.  Walk closer to base & try again" is displayed on the cordless handset display and an alarm tone sounds.	<ul> <li>You are too far from the base unit. Move closer and try again.</li> <li>Raise the base unit antennas.</li> <li>Plug in the AC adaptor of the base unit.</li> <li>The cordless handset may lose communication with the base unit.</li> <li>Set the security code (p. 59).</li> </ul>
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul> <li>Locate the cordless handset and the base unit away from other electrical appliances (p. 3).</li> <li>Move closer to the base unit.</li> <li>Raise the base unit antennas.</li> <li>Press  to select a clearer channel in the talk or intercom mode.</li> </ul>
The cordless handset does not ring.	•The ringer volume is set to OFF. Set to HIGH or LOW (p. 20).
The cordless handset display is blank.	●Charge the battery fully (p. 11).
You cannot store a name and phone number in the directory.	<ul> <li>You cannot store an item in the directory while the base unit is in the talk or intercom mode.</li> <li>Do not pause for over 60 seconds while storing.</li> </ul>
While programming or searching, the unit starts to ring and stops the program/search.	●To answer the call, press ▶ . Start again from the beginning after hanging up.



Problem	Cause and Remedy
The cordless handset does not display the caller's name and/or phone number.	<ul> <li>You need to subscribe to a Caller ID service.</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 the Caller ID information.</li> <li>Telephone line noise may be affecting the Caller ID information.</li> </ul>
The cordless handset display exits the Caller List or directory.	<ul> <li>Do not pause for over 60 seconds while searching.</li> </ul>
When a second call is received during a conversation, the cordless handset does not display the new caller's name and/or phone number.	<ul> <li>The line mode selection is incorrect.</li> <li>See page 16.</li> <li>The caller requested not to send his/her information. See page 29.</li> </ul>
You cannot page the base unit.	<ul> <li>The cordless handset is too far from the base unit.</li> <li>The base unit is engaged in an outside call, viewing the Caller List/directory list. Try again later. Wait until "Base in use" disappears.</li> </ul>
You cannot redial by pressing (REDIAL/PAUSE).	<ul> <li>If the last number dialed was more than 32 digits long, the number will not be redialed correctly.</li> <li>The button has a double function as either redial or pause. It will redial the last number dialed if pressed at the outset of a call (p. 24). If another number has been dialed first, it will operate as a pause button (p. 57).</li> </ul>

### **▶** Troubleshooting

Problem	Cause and Remedy
You cannot have a conversation using the cordless handset.	<ul> <li>When the optional headset is connected (p. 62), you must use the headset to talk with the caller. To have a normal cordless phone conversation, disconnect the headset.</li> </ul>
You cannot have a conversation using the optional headset.	Make sure that the headset is connected properly (p. 62).

#### Base unit

Problem	Cause and Remedy
The base unit does not ring.	●The ringer volume is set to OFF. Select HIGH or LOW (p. 20).
While programming or searching, the base unit starts to ring and stops the program/search.	●To answer the call, lift the handset or press <b>DIGITAL SP-PHONE</b> . Start again from the beginning after hanging up.
The base unit does not display the caller's name and/or phone number.	<ul> <li>You need to subscribe to a Caller ID service.</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 the Caller ID information.</li> <li>Telephone line noise may be affecting the Caller ID information.</li> </ul>
The base unit display exits the Caller List.	Do not pause for over 60 seconds while searching.
When a second call is received during a conversation, the base unit does not display the new caller's information.	<ul> <li>The line mode selection is incorrect. See page 16.</li> <li>The caller requested not to send his/her information. See page 29.</li> </ul>



Problem	Cause and Remedy
You cannot page a cordless handset.	<ul> <li>The cordless handset is too far from the base unit.</li> <li>The cordless handset is engaged in an outside call or viewing the Caller List/directory list. Try again. Wait until "Portable in use" disappears.</li> </ul>
You cannot redial by pressing (REDIAL).	•If the last number dialed was more than 32 digits long, the number will not be redialed correctly.

### General

Problem	Cause and Remedy
The unit does not work.	<ul> <li>Check the settings (p. 10–16).</li> <li>Charge the battery fully (p. 11).</li> <li>Clean the charge contacts and charge again (p. 12).</li> <li>Install the battery properly (p. 63).</li> <li>Place the cordless handset on the charger and unplug the AC adaptor of the base unit to reset. Plug in, and try again.</li> </ul>
You cannot program items, such as the dialing mode.	<ul> <li>Programming is not possible while the unit is in the talk, speakerphone or intercom mode, or when viewing the Caller List/directory list.</li> <li>Do not pause for over 60 seconds while programming.</li> <li>Move closer to the base unit, if you use the cordless handset.</li> <li>Make sure that the unit is not being used.</li> </ul>

### **▶** Troubleshooting

Problem	Cause and Remedy
Previously programmed information is erased.	•If a power failure occurs, programmed information may be erased. Reprogram if necessary.
"Recharge battery" is displayed on the cordless handset, " [  ]" flashes or the unit beeps intermittently.	●Charge the battery fully (p. 11).
You charged the battery fully, but "Recharge battery" is still displayed and/or " [	<ul> <li>Clean the charge contacts and charge again (p. 12).</li> <li>Install a new battery (p. 63).</li> </ul>
If you cannot solve your problem	<ul> <li>Call our customer call center at 1-800-211-PANA(7262).</li> <li>Panasonic's e-mail address for customer inquiries: consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY</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.
- 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 servicenter 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 servicenter 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 servicenter.
  - 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.

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.

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.

### FCC and Other Information

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.

Operating near 2.4GHz electrical appliances may cause interference. Move away from the electrical appliances and/or press the CH (channel) button.

#### **CAUTION:**

To comply with FCC RF exposure requirements, the base unit should be installed with its antenna located at 20 cm or more from persons and handset should be carried with the specific belt-clip provided for the handset to ensure compliance. Other non-tested belt-clips or similar body-worn accessories may not comply, therefore, should be avoided.

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

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

- 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 2401MHz to 2472MHz and the power output level can range from 0.001 watts to 0.20 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.

### **Specifications**

**■**Base unit

Power Supply: AC Adaptor (120 V AC, 60 Hz)

Power Consumption: Standby: Approx. 3.0 W

Maximum: Approx. 7.0 W

**Frequency:** 2.401 GHz – 2.471 GHz

**Dimensions (H \times W \times D):** Approx. 90 mm  $\times$  192 mm  $\times$  210 mm

 $(3^{17/32''} \times 7^{9/16''} \times 8^{1/4''})$ 

Mass (Weight): Approx. 720 g (1.59 lb.)

**■**Charger

Power Supply: AC Adaptor (120 V AC, 60 Hz)

**Power Consumption:** Standby: Approx. 1.0 W

Maximum: Approx. 4.0 W

**Dimensions (H \times W \times D):** Approx. 73 mm  $\times$  94 mm  $\times$  101 mm

 $(2 \frac{7}{8}" \times 3 \frac{11}{16}" \times 3 \frac{31}{32}")$ 

**Mass (Weight):** Approx. 160 g (0.35 lb.)

**■**Cordless handset

**Power Supply:** Ni-Cd battery (3.6 V, 850 mAh)

**Frequency:** 2.401 GHz – 2.471 GHz

**Dimensions (H \times W \times D):** Approx. 37 mm  $\times$  58 mm  $\times$  217 mm

 $(1 \ ^{15}/_{32}" \times 2 \ ^{9}/_{32}" \times 8 \ ^{17}/_{32}")$ 

Mass (Weight): Approx. 220 g (0.49 lb.)

**Security Codes:** 1,000,000

**■ Dialing Mode:** Tone (DTMF)/Pulse

■ Operating Environment:  $5 \, ^{\circ}\text{C} - 40 \, ^{\circ}\text{C}$  (41  $^{\circ}\text{F} - 104 \, ^{\circ}\text{F}$ )

Specifications are subject to change without notice.

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 ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

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

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

#### 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.

When shipping the unit carefully pack 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 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 warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The 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 WARRANTY. (As examples, this excludes damages for lost time, lost calls or messages, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This 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 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**

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: 1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST.

or send e-mail:

consumerproducts@panasonic.com

Web Site: http://www.panasonic.com

You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

#### Accessory Purchases:

1-800-332-5368 (Customer Orders Only)

Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032

(6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST) (Visa, MasterCard, Discover Card, American Express, Check)

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

### Index

Α	Accessories2	ı	Installation	
	Answering calls		AC adaptor	10
	Base Unit 28		Adding another phone	64
	Cordless Handset 28		Charger unit	11
	Auto talk		Corded handset	
_	•		Telephone line cord	10
В	Backlit LCD 25, 27		Intercom call	
	Base location 3			
	Battery, Charge 3, 11		Intercom paging	49
	Battery information 12	L	LCD contrast 21	, 22
	Battery replacement 63		Lighted cordless	
	Battery strength11		handset keypad	25
	Belt Clip		Line mode	
_	•		Listening to	10
C	Call on hold		voice mail messages	55
	Call waiting caller ID 57			
	Call waiting tone 57		Location of controls 6, 7,	8, 9
	Caller ID	М	Making Calls	
	Auto edit feature 32, 34		Base Unit	26
	Caller ID service 14, 28, 29		Cordless Handset 23	
	Caller List		Microphone 26, 28	₹ 49
	editing 32, 33		Muting a conversation	, 10 56
	,			
	erasing 37, 38	N	Noise	3
	storing	0	One-Touch Dialer	47
	viewing 30	•	Dialing	
	Calling back		Storing	
	from Caller ID List 31	_	S .	
	Conference call 51	Р	PAUSE	
D	Date and time13		Pulse service	56
	Dialing mode	R	Redial 24	1 26
	Directory	• • •	Ringer Off	
			Ringer Volume	
	dialing44		Rotary service, tone dialing	
	editing45		· · · · · · · · · · · · · · · · · · ·	
	erasing 46	S	Safety Instructions	
	finding 42		Security code setting	59
	name and symbols41		Shipping product for	
	storing 39		service Back c	over
	Displays 9		Speakerphone	
F	Error messages, base display 65		Specifications	76
_	Error messages, cordless	_		
	handset display 64	Т	Transferring a call	50
	· · ·		Troubleshooting	
F	FCC and other information 73		Base Unit	
	FLASH button 58		Cordless Handset	66
	Flash time 58		General	69
	Function Menu 17, 18	v	Voice mail access number	52
		٧		
н	Headset, optional		Voice mail tone	54
	Hold alarm 25, 27		Volume control	,
			Base Unit 27	,
			Cordless Handset	25
		W	Wall mounting	
		- •	Base unit	60
			Charger unit	
			Warranty	01
			vvariality	//

#### For product service

- Call 1-800-211-PANA(7262) for the location of an authorized servicenter.
- Panasonic's e-mail address for customer inquiries: consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY

#### 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 servicenter, 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.
  - 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 sin cordón 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 the set-up or operation, please call 1-800-211-PANA(7262)

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