Panasonic

Integrated Telephone System

Model No. **KX-TSC55-B**

Pulse-or-tone dialing capability

Operating Instructions

Jog Dial

2 LINE

Caller ID Compatible

PLEASE READ BEFORE USE AND SAVE.

Before Initial Use

Please read IMPORTANT SAFETY
INSTRUCTIONS on pages 62–63 before use.
Read and understand all instructions.

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

Caller ID and Visual Call Waiting (Call Waiting ID), where available, are
telephone company services. After subscribing to Caller ID, this phone
will display the caller's name and phone number. An added service,
Visual Call Waiting, will display the second caller's name and phone
number during call waiting.

┌──────────────────────────────────────┐
│ **Attach your purchase receipt here.** │
└──────────────────────────────────────┘

For your future reference

Serial No. _____   Date of purchase _____
(found on the bottom of the unit)

Name and address of dealer _____

Accessories (Included) To order, call 1-800-332-5368.

□ AC Adaptor ....one
(p. 10)
Order No. KX-A11-6

□ Wall Mounting Adaptor ....one
(p. 13)
Order No. PQKL28Z0

□ Handset ....one
(p. 10)
Order No. PQJX2PML01Z

□ Handset Cord ....one
(p. 10)
Order No. PQJA212V

□ 4-Wire Telephone Line Cord
with Green Plugs ....one
(p. 11, 12)

□ 2-Wire Telephone Line Cord
with Transparent Plugs ......one
(p. 12)

3

Contents

4

Useful Information

Preparation

Basic Operation

Advanced Operation

Useful Information

5

Location of Controls

[LINE 1] Button and Indicator (p. 22, 24, 26)

[LINE 2] Button and Indicator (p. 22, 24, 26)

[CONF] (Conference) Button (p. 27)

[HOLD] Button (p. 24, 26)

Display (p. 8)

[REDIAL/PAUSE] Button (p. 24, 52)

[CALL WAIT/FLASH] Button (p. 50, 52)

VOLUME ⊙, ⊙ Buttons (p. 23, 57)

[JOG DIAL] (p. 16, 24, 30, 46)

MIC (Microphone) (p. 22)

[SP-PHONE (Speakerphone)/HEADSET] Button and Indicator (p. 22, 57)

CLEAR Button
(p. 20, 23, 36, 49)

DIRECTORY PROGRAM
Button (p. 34, 43)

VOICE MAIL
Button (p. 38)

CALLER ID Button and Indicator
(p. 29, 30)

Headset Jack (p. 55) ----▶

TONE Button (p. 52)

EXIT Button (p. 16, 23, 30, 46)

FUNCTION/EDIT
Button (p. 16, 33)

SEND/SET Button
(p. 16, 23)

Display

```
┌──LINE1────┬──LINE2───┐
│10:00AM JUL. 9 │─①
│      10      7│─②
│   LINE1   LINE2│
└──────────────┘
```

In the stand-by mode, the display shows:
① the current time and date
② the number of new Caller ID calls
   (Ex. 10 new calls have been received
   on LINE 1 and 7 new calls on LINE 2.)

```
┌──LINE1────┬──LINE2───┐
│12:00AM JAN. 1│
│      0       0│
│   LINE1   LINE2│
└──────────────┘
```

When the clock needs adjusting, the time
and date flash (p. 18).

```
┌──LINE1───┬──LINE2──┐
│          │RINGER OFF│
│10:00AM JUL. 9 │
│      7       5│
│   LINE1   LINE2│
└──────────────┘
```

" RINGER OFF " is displayed when the ringer
volume is set to "Off" (p. 17). (Ex. LINE 2's
ringer volume is "Off".)

Ex. Handset volume level: 2 or
Speaker volume level: 4

```
┌──LINE1────┬──LINE2───┐
│              │
│Low ■■■■    High│
│              │
└──────────────┘
```

The display shows the volume level.
You can select:
—4 levels (1–4) while using the handset
   (p. 23) or optional headset (p. 57).
—8 levels (1–8) while using the
   speakerphone (p. 23).

```
┌──LINE1────┬──LINE2───┐
│TINA ROBINSON │
│1-000-222-3333│
│   LINE1      │
└──────────────┘
```

When a call is received, the display shows
the caller's name, number and the called
line after the first ring.

```
┌──────────────┐
│JACK SMITH    │
│111-2222      │
│  3:10P JUN.10 ×3│
│LINE1 New     │
└──────────────┘
```

This is a name from the Caller List.
The display shows:
—the caller's name,
—the caller's number,
—the time and date of the last call
   (ex. Jun. 10, 3:10 PM),
—the number of times called (ex. 3 times),
—the called line, and
—if it is a new call or not.

```
No items stored
```

This display will be shown when:
—the redial list is empty,
—the Caller List for both lines is empty,
—the directory list is empty, or
—there are no stored items in the dialing button you pressed in the directory.

```
Voice mail :None
 Voice mail #
 is not stored
    LINE1
```

This display will be shown when you press (VOICE MAIL) before storing an access number for the displayed line (p. 41).

```
Tom Jones
098-765-4321
Private
-Directory list-
```

This is a name from the directory list.
The stored name and phone number are displayed.
"Private ring" has been selected for this item (p. 42).

```
End of new calls
```

You have finished viewing the NEW CALLS in the Caller List. To exit, press (EXIT).

```
End of old calls
```

You have finished viewing the OLD CALLS in the Caller List. To exit, press (EXIT).

```
    End
```

You are at the end of the Caller List.
To exit, press (EXIT).

Settings

Connecting the Handset/AC Adaptor

Handset

Handset Cord

Fasten the AC adaptor cord to prevent it from being disconnected.

Hook

Power Outlet
(AC 120 V, 60 Hz)

AC Adaptor

- Use only a Panasonic Handset for the KX-TSC55-B.
- USE ONLY WITH Panasonic AC ADAPTOR KX-A11 (Order No. KX-A11-6).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- During a power failure the unit will work as a single-line telephone, but the speakerphone will not work and the line indicators will not light.
- If your unit is connected to a PBX which does not support Caller ID and voice mail services, you cannot access those services.

Connecting the Telephone Line Cord

Connect the telephone line cord(s) to the unit as follows.

To connect a two-line telephone jack

4-Wire Telephone
Line Cord **with**
GREEN Plugs

LINE 1/2   LINE 2

GREEN
Plug

Two-Line
Telephone Jack
(RJ14C)

➡ Settings

To connect two single-line telephone jacks

LINE 1

2-Wire Telephone
Line Cord with
TRANSPARENT
Plugs

Single-Line
Telephone Jacks
(RJ11C)

4-Wire Telephone Line Cord
with **GREEN Plugs**

LINE 2

LINE 1/2   LINE 2

TRANSPARENT   GREEN
Plug   Plug

If you use the unit only as a single-line telephone

LINE 1

2-Wire Telephone
Line Cord with
TRANSPARENT
Plugs

Single-Line
Telephone Jack
(RJ11C)

LINE 1/2   LINE 2

TRANSPARENT Plug

• For this connection, you can only use LINE 1.

Wall Mounting

This unit can be mounted on a wall phone plate.

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

2 Connect the AC adaptor. Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.

 • The word "UP" should face upward.

To Power Outlet

3 Connect the telephone line cord. Mount the unit, then slide down.

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

13

Selecting the Dialing Mode

You can select the dialing mode by programming. 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".
Be sure that the handset is on the cradle, the AC adaptor is connected and the SP-PHONE/HEADSET indicator light is off.

1 Press (**FUNCTION/EDIT**).

- The display shows "Rotate JOG and press SET", then the function list.

```
→Date and time
 Area code
 2nd area code
-Function list-
```

2 Rotate (**JOG DIAL**) until "Dialing mode" is selected.

- The arrow points to "Dialing mode".

```
 Line selection
→Dialing mode
 Incoming call..
-Function list-
```

3 Press (**SEND/SET**).

- The current mode is displayed.

```
Dialing mode
         :Tone
SET=Save
```

4 Rotate (**JOG DIAL**) until the desired mode is displayed.

```
Dialing mode
         :Pulse
SET=Save
```

5 Press (**SEND/SET**) (Save key).

- A long beep sounds and the mode is saved.
- The display will return to the function list. To return to the stand-by mode, press (**EXIT**) or wait for 60 seconds.

```
Dialing mode
         :Pulse
```

- You can exit the programming mode any time by pressing (**EXIT**).
- If either line has rotary or pulse service, set to "Pulse". When making a call using a line which has touch tone service, press 🟐 first and then dial the number.

Selecting the Line Mode

If a line is connected to a low voltage system such as a PBX, set to "B". If not, the following will not work: the line indicator will not operate properly, the unit will not ring, the Visual Call Waiting (Call Waiting ID) Service will not be available (p. 52) and you will not hear the incoming call tone (p. 54). Both lines are preset to "A".
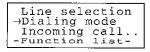
Be sure that the handset is on the cradle, the AC adaptor is connected and the SP-PHONE/HEADSET indicator light is off.
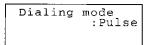
1 Press (FUNCTION/EDIT).

• The display shows "Rotate JOG and press SET", then the function list.

```
→Date and time
 Area code
 2nd area code
-Function list-
```

2 Rotate (JOG DIAL) until "Line mode" is selected.

• The arrow points to "Line mode".

```
 Headset select
→Line mode
 Date and time
-Function list-
```

3 Press (SEND/SET).

```
Line mode
        :Line1
SET=Next
```

4 Rotate (JOG DIAL) to select the desired line, "Line1" or "Line2".

```
Line mode
        :Line2
SET=Next
```

5 Press (SEND/SET) (Next key).

• The current mode is displayed.

```
Line mode
   Line2:A
SET=Save
```

6 Rotate (JOG DIAL) until the desired mode is displayed.

```
Line mode
   Line2:B
SET=Save
```

7 Press (SEND/SET) (Save key).

• A long beep sounds and the mode is saved.

• The display will return to the function list. To program the other line, start from step 3.

• To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

```
Line mode
   Line2:B
```

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

15

Programmable Functions

Programming Summary of Preparations

You can program the following functions. The display shows the programming instructions. See the corresponding pages for the function details.

Be sure that the handset is on the cradle, the AC adaptor is connected and the SP-PHONE/HEADSET indicator light is off.

Press (FUNCTION/EDIT).
* "Rotate JOG and press SET" is displayed, then the display changes to the function list.

↓

Rotate (JOG DIAL) until the desired function is selected.
* The arrow points to the selected function.

↓

Press (SEND/SET).
* **To adjust the date and time**, see page 18.
* **To store your area code**, see page 20.
* **To store the second area code**, see page 21.
* **To store a voice mail access number**, see page 39.
* **To set the voice mail tone**, see page 40.
* **To change the line selection**, see page 53.
* **To select the dialing mode**, see page 14.
* **To turn on/off the incoming call tone**, see page 54.
* **To select the flash time**, see page 50.
* **To select the ringer volume**, see page 17.
* **To select the headset/speakerphone**, see page 56.
* **To select the line mode**, see page 15.

↓

When finished, press (SEND/SET) (Save key).

---

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

Selecting the Ringer Volume

You can select the ringer volume for each line by programming. Set to "High" or "Low". When set to "Off", the selected line(s) will not ring. Both lines are preset to "High".

1 Press (FUNCTION/EDIT).

```
→Date and time
 Area code
 2nd area code
 -Function list-
```

2 Rotate (JOG DIAL) until "Ringer volume" is selected.

• The arrow points to "Ringer volume".

```
→Ringer volume
 Headset select
 Line mode
 -Function list-
```

3 Press (SEND/SET).

```
 Ringer volume
          :Line1
 SET=Next
```

4 Rotate (JOG DIAL) to select the desired line, "Line1" or "Line2".

```
 Ringer volume
          :Line2
 SET=Next
```

5 Press (SEND/SET) (Next key).

• The current setting is displayed.

```
 Ringer volume
       Line2:High
 SET=Save
```

6 Rotate (JOG DIAL) until the desired level is displayed.

```
 Ringer volume
       Line2:Low
 SET=Save
```

7 Press (SEND/SET) (Save key).

• The selected volume rings.
  When set to "Off", a beep sounds.
• The display will return to the function list.
  To program the other line, start from step 3.
• To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

```
 Ringer volume
       Line2:Low
```

• When set to "Off", "RINGER OFF" will be displayed for the line selected in step 4 when you exit the function list.

Preparation

Date and Time Adjustment

If you subscribe to a Caller ID service (p. 28), please read the information on the next page.

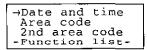**1** Press (FUNCTION/EDIT).

```
→Date and time
 Area code
 2nd area code
-Function list-
```

2 Rotate (JOG DIAL) until "Date and time" is selected.

• The arrow points to "Date and time".

```
→Date and time
 Area code
 2nd area code
-Function list-
```

3 Press (SEND/SET).

• The current setting is displayed.

```
Date:1998.01.01
Time:12:00 AM
         SET=Save
```

4 ①Enter the current year by using a 4-digit number, then the month and day using 2-digit numbers. (Ex. To set Jan. 5, 1999, enter "1999 01 05".)

②Enter the current time (hour and minute) by using a 4-digit number. (Ex. To set 9:30, enter "0930".)

```
Date:1999.01.05
Time:09:30 AM
         SET=Save
```

• If you enter a wrong number, rotate (JOG DIAL) to move the cursor to the incorrect number. Then make the correction.

5 Press ① (AM/PM key) to select "AM" or "PM".

```
Date:1999.01.05
Time:09:30 PM

1=AM/PM  SET=Save
```

6 Press (SEND/SET) (Save key).

- A long beep sounds and the clock starts working.
- The display will return to the function list. To return to the stand-by mode, press (EXIT) or wait for 60 seconds.
- If 3 beeps sound, the entered date/time is not correct. Start from step 4.

```
Date:1999.01.05
Time:09:30 PM
```

- When you enter the hour in step 4, you cannot enter numbers greater than 12. **Do not use military time.** (To set 13:00, enter "0100" and select "PM" by pressing (1).)
- The accuracy of the clock is approximately ±45 seconds a month at room temperature.

If a power failure occurs or the AC adaptor is disconnected for more than 30 minutes, the adjusted date/time will be erased.

For Caller ID service users (p. 28)

- The date and time will be adjusted by the incoming Caller ID information after the first ring. In this case, the year will not be adjusted. To adjust the year, follow steps 1 to 3 on page 18. Enter the current year by using a 4-digit number, then press (SEND/SET).
- The Caller ID information will re-set the clock if the adjusted time and/or date is incorrect.
- The Caller ID information will automatically set the clock ahead at the beginning of summer and back at the beginning of winter.

Storing Your Area Code

We recommend that you program your area code first before using the Caller ID feature (p. 28). Then incoming calls from the same area code will be recorded in the Caller List without the area code. You do not have to remove the area code before calling back or storing. Also, when incoming calls from a different area code are received, "1" will be added before the area code automatically.

1 Press (FUNCTION/EDIT).

```
→Date and time
 Area code
 2nd area code
-Function list-
```

2 Rotate (JOG DIAL) until "Area code" is selected.

- The arrow points to "Area code".

```
 Line mode
 Date and time
→Area code
 -Function list-
```

3 Press (SEND/SET).

- The current setting is displayed. The factory preset is "---".

```
 Area code
      .      :---
 SET=Save
```

4 Enter your area code.

- If you enter a wrong number, press (CLEAR), then enter the correct number.

```
 Area code
          :123]
 SET=Save
```

5 Press (SEND/SET) (Save key).

- A long beep sounds and the code is saved.
- The display will return to the function list. To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

```
 Area code
          :123
   .
```

To clear the area code

Press (FUNCTION/EDIT) ➡ rotate (JOG DIAL) until "Area code" is selected ➡ press (SEND/SET) ➡ (CLEAR) ➡ (SEND/SET) (Save key).

- If a "2nd area code" has been stored (p. 21), it will also be cleared automatically.

Storing the Second Area Code

You can also program another local area code. This area code does not require dialing "1" before it. After storing this area code, the display will show the 10 digits (3-digit area code plus 7-digit phone number) after a call is received from that area code. Calls will be recorded in the Caller List without "1". You cannot store a second area code unless your area code is stored first (p. 20).

1 Press [FUNCTION/EDIT].

```
→Date and time
 Area code
 2nd area code
-Function list-
```

2 Rotate [JOG DIAL] until "2nd area code" is selected.

- The arrow points to "2nd area code".

```
 Date and time
 Area code
→2nd area code
-Function list-
```

3 Press [SEND/SET].

- The current setting is displayed.
  The factory preset is "- - -".

```
 2nd area code
              : - - -
 SET=Save
```

4 Enter the second area code.

- If you enter a wrong number, press [CLEAR], then enter the correct number.

```
 2nd area code
              :124|
 SET=Save
```

5 Press [SEND/SET] (Save key).

- A long beep sounds and the code is saved.
- The display will return to the function list. To return to the stand-by mode, press [EXIT] or wait for 60 seconds.
- If 3 beeps sound, your area code is not stored. Store the code first (p. 20), then try again.
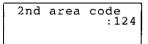
```
 2nd area code
              :124
```

To clear the 2nd area code

Press [FUNCTION/EDIT] ➡ rotate [JOG DIAL] until "2nd area code" is selected ➡ press [SEND/SET] ➡ [CLEAR] ➡ [SEND/SET] (Save key).

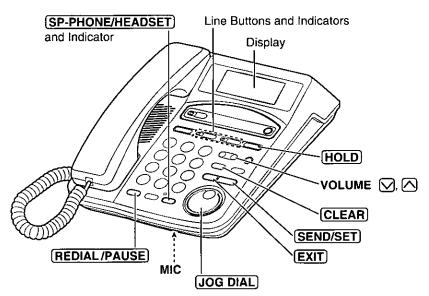# Making Calls

The unit will automatically select a free line which is not being used by a parallel connected telephone when you lift the handset to make a call. (To change the line selection, see page 53.) To hang up, place the handset on the cradle.

SP-PHONE/HEADSET and Indicator   Line Buttons and Indicators

Display

HOLD

VOLUME ⟨⟩, ⟨⟩

CLEAR

SEND/SET

REDIAL/PAUSE   EXIT

MIC   JOG DIAL

Using the speakerphone

1 Press SP-PHONE/HEADSET.
  • The indicator lights.
  • A free line is automatically selected and the line indicator lights green.

>

2 Dial a phone number.
  • The dialed number is displayed.
  • If you misdial, hang up and dial again.
  • After a few seconds, the display will show the length of the call and selected line.

>111-2222

7:37PM JUN. 1
0-00-00
LINE1

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

4 To hang up, press SP-PHONE/HEADSET.
  • The indicator lights go out.
  • The display will return to the stand-by mode.

7:39PM JUN. 1
0-01-30
LINE1

• In step 1, you may select a line manually by pressing the line button instead of SP-PHONE/HEADSET.

22

To dial after confirming the entered number

1 Enter a phone number.
  - If you misdial, press (CLEAR).
    Digits are erased from the right.
  - To cancel, press (EXIT).

```
111-2222□
```

2 Lift the handset or press
  (SP-PHONE/HEADSET).

  - After a few seconds, the display will show
    the length of the call and selected line.
  - You can also press (SEND/SET) or a line
    button instead of (SP-PHONE/HEADSET).

```
>111-2222
```

```
7:37PM JUN. 1
0-00-00
     LINE1
```

3 When the other party answers, talk into the
  handset or MIC.

4 To hang up, place the handset on the cradle
  or press (SP-PHONE/HEADSET).

  - The display will return to the stand-by
    mode.

```
7:39PM JUN. 1
0-01-30
     LINE1
```

To adjust the handset volume (4 levels) or the speaker volume (8 levels)

While using the handset or speakerphone,
press **VOLUME** Ⓐ or Ⓥ.

  - The display shows the volume level.
  - After a few seconds, the display will return to
    the length of the call.

Ex. Handset volume level: 4 or
    Speaker volume level: 8
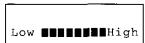
```
Low ■■■■■■■■High
```

During the speakerphone operation

  - For best performance, talk alternately with the caller in a quiet room.
  - If the caller complains that your voice is hard to hear, press
    VOLUME Ⓥ to decrease the speaker volume.
  - If the other party's voice from the speaker cuts in/out during a
    conversation, press **VOLUME** Ⓥ to decrease the speaker volume.
  - You can switch to the handset by lifting it up. To switch back to the
    speakerphone, press (SP-PHONE/HEADSET).

➡ Making Calls

To redial the last number dialed

Lift the handset or press (SP-PHONE/HEADSET) ➡ press (REDIAL/PAUSE).

To redial after confirming the numbers in the redial list

The unit automatically stores the last 5 numbers dialed into the redial list.

1. Press (REDIAL/PAUSE).
   • The display shows the last number dialed.

```
321-5555
-Redial list-
```

2. If necessary, rotate (JOG DIAL) until the desired number is selected.
   • To search from the most recent to oldest number, rotate to the right.
     To search from the oldest to most recent number, rotate to the left.
   • To cancel, press (EXIT).

3. Lift the handset or press (SP-PHONE/HEADSET).
   • You can also press (SEND/SET) or a line button instead of (SP-PHONE/HEADSET).

To clear a number in the redial list, press (REDIAL/PAUSE) ➡ rotate (JOG DIAL) until the desired number is selected ➡ press (CLEAR).

To put a call on hold

Press (HOLD).
• The line indicator flashes green.
• If you are using the handset, you may place it on the cradle.

To release the hold

Press the line button.
• If another phone is connected on the same line, you can also release the hold by lifting its handset.

What the line indicator means

Off	The line is free.
On (green)	You are using the line.
On (red)	Someone else is using the line on a parallel connected telephone.
Flashing (green)	A call is on hold.
Flashing (red)	A call is being received.

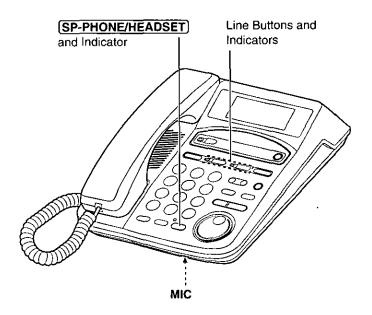*24*

Answering Calls

When a call is being received, the unit rings and the called line indicator flashes red. You can answer a call by simply lifting the handset. The line is automatically selected. (To change the line selection, see page 53.)
If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 28). Please wait until the second ring to answer a call in order to view the Caller ID information.

Using the speakerphone

1 Press (SP-PHONE/HEADSET).

   • The indicator lights.
   • The called line indicator lights green.

2 Talk into the **MIC** (microphone).

3 To hang up, press (SP-PHONE/HEADSET).

   • The indicator lights go out.

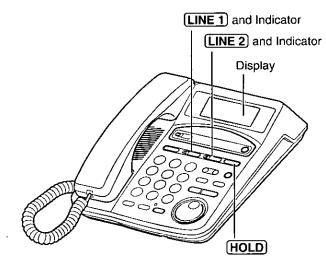(SP-PHONE/HEADSET) and Indicator   Line Buttons and Indicators

MIC

• You may answer a call by pressing the line button instead of (SP-PHONE/HEADSET).
• When the ringer volume is set to "Off", the selected line(s) will not ring (p. 17).

Using the Other Line During a Conversation

During a conversation, if the other line indicator flashes red, an incoming call is being received on the line. You can answer the second call while holding the first call. You can also make a call without terminating the first call. If you subscribe to a Caller ID service, the second caller's information will be displayed when a call is being received on the other line (p. 28).

Ex: If you are using LINE 1

1 Press (HOLD) to put the first call (LINE 1) on hold.

```
7:37PM JUN. 1
0-00-50
  LINE1
```

• The LINE 1 indicator flashes.

2 Press the other line button (LINE 2) to make or answer a second call.

```
7:37PM JUN. 1
0-00-58 0-00-00
  LINE1     LINE2
```

• The LINE 2 indicator lights green.

3 To return to the first call (LINE 1), press the line button for the first call (LINE 1).

```
7:38PM JUN. 1
0-01-30
  LINE1
```

• The second call is terminated.

(LINE 1) and Indicator

(LINE 2) and Indicator

Display

(HOLD)

• To hold the second call in step 3, press (HOLD) before pressing the line button for the first call.
• You may be informed if another call arrives on the other line during a conversation by two tones (incoming call tone). For this setting, see page 54.
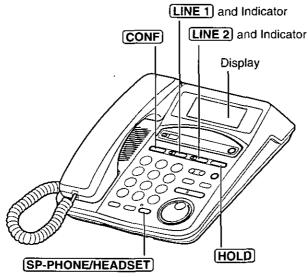
26

Conference Call

While having a conversation on one line, you can make or answer a second call on the other line and then combine both calls together to make a conference call.

Ex: If you are using LINE 1

1 Press (HOLD) to put the first call (LINE 1) on hold.

   • The LINE 1 indicator flashes.

```
7:37PM JUN. 1
0-00-50
    LINE1
```

2 Press the other line button (LINE 2) to make or answer a second call.

   • The LINE 2 indicator lights green.

```
7:37PM JUN. 1
0-00-58 0-00-00
    LINE1     LINE2
```

3 When the second call is connected, press (CONF) to make a conference call.

   • Both line indicators light.

```
7:38PM JUN. 1
0-01-28 0-00-30
    LINE1     LINE2
```

(LINE 1) and Indicator

(CONF)   (LINE 2) and Indicator

Display

(SP-PHONE/HEADSET)   (HOLD)

During a conference call:

• **To hang up both lines,** place the handset on the cradle or press (SP-PHONE/HEADSET).

• **To hang up only one line,** press the line button you want to continue talking with.

• **To put both lines on hold,** press (HOLD).
   To talk with only one caller, press the corresponding line button.
   To resume both lines, press (CONF).

Advanced Operation
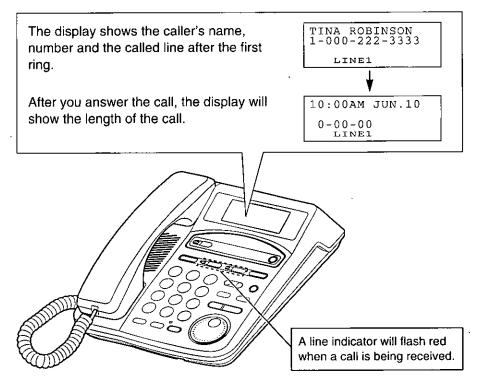
Caller ID Service

This unit is compatible with a Caller ID service offered by your telephone company. After you subscribe to a Caller ID service, the calling party information will be displayed after the first ring.

The unit can record a total of 30 different caller's information for both lines combined, including the time and date received, the number of times called and the called line, in the Caller List. The Caller List information is sorted by the most recent to oldest call. When the 31st call is received, the first call is deleted.

Using the list, you can automatically call back a caller. You can store the caller's name and number from the Caller List into the directory.

If you subscribe to a Visual Call Waiting (Call Waiting ID) service, when a second call is received on the same line, the new caller's name and phone number will be displayed (p. 52).

How caller information is displayed when a call is received

The display shows the caller's name, number and the called line after the first ring.

```
TINA ROBINSON
1-000-222-3333
     LINE1
```

After you answer the call, the display will show the length of the call.

```
10:00AM JUN.10
0-00-00
     LINE1
```

A line indicator will flash red when a call is being received.

• When both lines are receiving calls, each caller's information will be displayed alternately.

28

- In some cases, caller information cannot be displayed. The display will show as follows.

The caller dialed from an area which does not provide a Caller ID service.

```
Out of area
```

The caller has requested not to display their information.
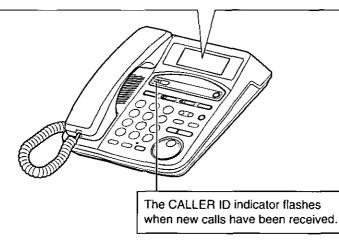
```
Private caller
```

- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.
- In some calling areas, the name display service may not be available. For further information, please contact your telephone company.

To check the number of new calls

In the stand-by mode, the display shows the current time and date, and the number of new calls on both lines.

- For example, if you have received 10 new calls on LINE 1 and 12 new calls on LINE 2, the display on the right will be shown.

```
┌──LINE1──┬──LINE2──┐
10:00AM JUL. 9
        10        12
     LINE1     LINE2
```

The CALLER ID indicator flashes when new calls have been received.

Using the Caller List

Viewing the Caller List

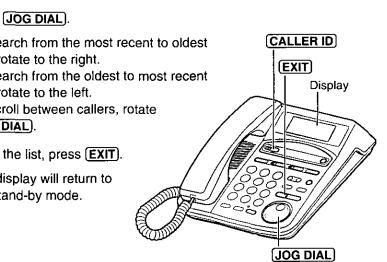To confirm who has called you, follow the steps below.

1 Press (CALLER ID) to enter the list.
- "CALLER ID key=Select line JOG=Listing" is displayed, then the number of new calls on both lines will be shown.

```
New calls
      10        12
    LINE1     LINE2
```

2 a) To view callers on both lines, go to step 3.
b) To view callers on either line, press (CALLER ID) repeatedly to select the line.
- Each time you press the button, the line will change.

Ex. LINE 1 is selected.

```
New calls
      10
    LINE1
```

3 Rotate (JOG DIAL).
- To search from the most recent to oldest call, rotate to the right.
  To search from the oldest to most recent call, rotate to the left.
- To scroll between callers, rotate (JOG DIAL).

(CALLER ID)

(EXIT)

Display

4 To exit the list, press (EXIT).
- The display will return to the stand-by mode.

(JOG DIAL)

- Once NEW calls have been checked, they will be listed as OLD.
- When you answer a call or call back, the caller information will be listed as OLD.
- If "No items stored" is displayed in step 1, the Caller List is empty. The display will return to the stand-by mode.
- If more than one call is received from the same caller, the date and time of the last call will be recorded. Also, when the same caller calls again, the OLD call entry will be deleted.
- When viewing calls on both lines, they will be displayed in chronological order.

Ex. When you search from the most recent call on both lines:

Press [CALLER ID] to enter the list.
• "CALLER ID key=Select line JOG=Listing" is displayed.

▼

```
New calls
      1        1
  LINE1    LINE2
```

| Rotate [JOG DIAL] to the right.

```
* JACK SMITH
  111-2222
  3:10P JUN.10
  LINE1 New
```

*If the caller does not have name information, the display will only show the phone number.

| Rotate [JOG DIAL] to the right.

```
* KEVIN PARKER
  333-4444
  11:50A JUN.10 ×3
       New   LINE2
```

| Rotate [JOG DIAL] to the right.

```
End of new calls
```

| Rotate [JOG DIAL] to the right.

```
* NANCY BROWN
  222-3333
  1:54A JUN. 9 ×2
            LINE2
```

| Rotate [JOG DIAL] to the right.

```
      E n d
```

Rotate [JOG DIAL] to the right.

To return to the previous caller, rotate [JOG DIAL] to the left.

To exit the Caller List, press [EXIT].
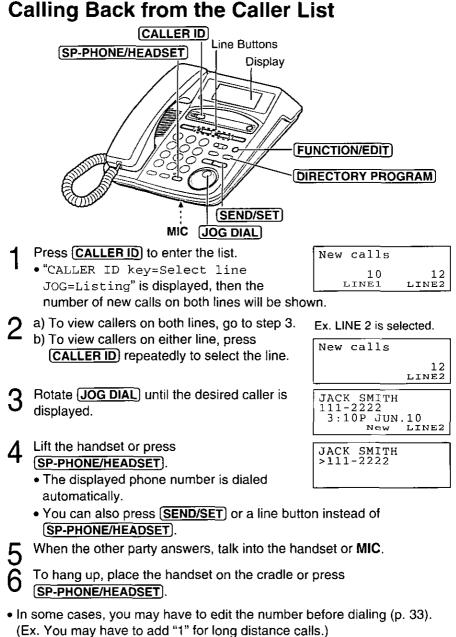• The display will return to the stand-by mode.

Advanced Operation

Display signification:

New: You have not checked the caller information, answered the call or called back the caller.

×2-×9:   The number of times they called (up to 9).

Calling Back from the Caller List

CALLER ID
SP-PHONE/HEADSET
Line Buttons
Display

FUNCTION/EDIT
DIRECTORY PROGRAM

SEND/SET
MIC JOG DIAL

1 Press (CALLER ID) to enter the list.
   • "CALLER ID key=Select line
   JOG=Listing" is displayed, then the
   number of new calls on both lines will be shown.

```
New calls
       10      12
     LINE1   LINE2
```

2 a) To view callers on both lines, go to step 3.
   b) To view callers on either line, press
   (CALLER ID) repeatedly to select the line.

Ex. LINE 2 is selected.

```
New calls
              12
            LINE2
```

3 Rotate (JOG DIAL) until the desired caller is
   displayed.

```
JACK SMITH
111-2222
  3:10P JUN.10
     New   LINE2
```

4 Lift the handset or press
   (SP-PHONE/HEADSET).
   • The displayed phone number is dialed
   automatically.

```
JACK SMITH
>111-2222
```

   • You can also press (SEND/SET) or a line button instead of
   (SP-PHONE/HEADSET).

5 When the other party answers, talk into the handset or **MIC**.

6 To hang up, place the handset on the cradle or press
   (SP-PHONE/HEADSET).

   • In some cases, you may have to edit the number before dialing (p. 33).
   (Ex. You may have to add "1" for long distance calls.)
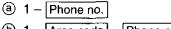   If you did not store your area code (p. 20), the edited number will not be
   saved in the Caller List.
   • If a phone number is not displayed in the caller information, you cannot
   call back that caller.

Editing the Caller's Phone Number
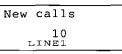
The unit can edit a phone number into one of 4 patterns.

1 Press (CALLER ID) to enter the list.
- "CALLER ID key=Select line JOG=Listing" is displayed, then the number of new calls on both lines will be shown.

```
New calls
      10       12
   LINE1    LINE2
```

2 a) To view callers on both lines, go to step 3.
b) To view callers on either line, press (CALLER ID) repeatedly to select the line.

Ex. LINE 1 is selected.

```
New calls
      10
   LINE1
```

3 Rotate (JOG DIAL) until the desired caller is displayed.

```
FRED PARKER
321-5555
  3:10P JUN.10
LINE1 New
```

4 Press (FUNCTION/EDIT) to select a pattern. Each time you press (FUNCTION/EDIT), the number is rearranged into one of 4 different patterns.
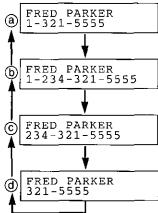
ⓐ 1 − | Phone no. |

ⓑ 1 − | Area code | − | Phone no. |

ⓒ | Area code | − | Phone no. |

ⓓ | Phone no. |

- The order in which patterns ⓐ − ⓓ are displayed depends on which pattern the telephone number is displayed in step 3.

ⓐ
```
FRED PARKER
1-321-5555
```
↓
ⓑ
```
FRED PARKER
1-234-321-5555
```
↓
ⓒ
```
FRED PARKER
234-321-5555
```
↓
ⓓ
```
FRED PARKER
321-5555
```

Advanced Operation

5 After you edit the number into the desired pattern, you can continue with calling back or storing procedures.
To call back, lift the handset or press (SP-PHONE/HEADSET) (p. 32).
To store the caller's name and number in the directory, press (DIRECTORY PROGRAM), then follow the instructions on the display (see page 34, from step 4).
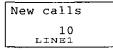
Storing the Caller List Information in the Directory

You can store names and numbers that are in the Caller List into the directory. You can also select a separate ring tone for callers by selecting "Private ring" (p. 42).
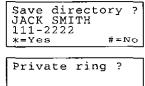
1 Press (CALLER ID) to enter the list.

- "CALLER ID key=Select line JOG=Listing" is displayed, then the number of new calls on both lines will be shown.

```
New calls
       10       12
     LINE1    LINE2
```

2 a) To view callers on both lines, go to step 3.
b) To view callers on either line, press (CALLER ID) repeatedly to select the line.

Ex. LINE 1 is selected.

```
New calls
       10
     LINE1
```

3 Rotate (JOG DIAL) until the desired caller is displayed.

- If the number requires editing, see page 33.

```
JACK SMITH
111-2222
  3:10P JUN.10
LINE1 New
```

4 Press (DIRECTORY PROGRAM).

```
Save directory ?
JACK SMITH
111-2222
*=Yes        #=No
```

5 Press * (Yes key).

```
Private ring ?

*=Yes        #=No
```

If the caller information you want to store does not have name information, "Save name ?" will be displayed.

```
Save name ?
111-2222
*=Yes        #=No
```

a) If you do not want to enter a name, press # (No key).

```
Private ring ?

*=Yes        #=No
```

b) If you want to enter a name, press * (Yes key). Then enter the name (p. 44). When finished, press (SEND/SET) (Next key).
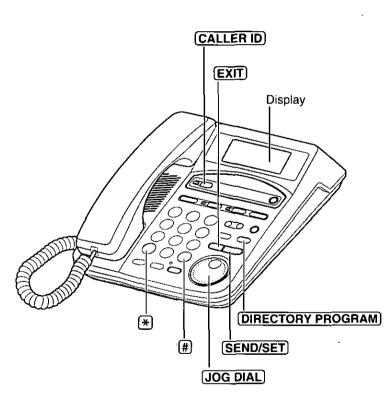
```
Enter name >
[]
JOG=←→   SET=Next
```

6
a) If you do not want to select private ring, press # (No key).

```
JACK SMITH
111-2222
*** Saved ***
```

b) If you want to select private ring, press * (Yes key).

```
JACK SMITH
111-2222
Private
*** Saved ***
```

- A long beep sounds and the programming is completed.
- The display will return to step 3. You can continue storing another item. To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

CALLER ID

EXIT

Display

DIRECTORY PROGRAM

*

#

SEND/SET

JOG DIAL

Advanced Operation

- If the display shows "Directory full" in step 4, the display will return to step 3. Press (EXIT) to exit the list. To clear other stored items from the directory, see page 49.
- You cannot store caller information in the directory when a phone number is not displayed.

Clearing the Caller List Information

You can clear some or all of the entries in the Caller List.

To clear a specific caller from the Caller List

1 Press (CALLER ID) to enter the list.

· • "CALLER ID key=Select line
JOG=Listing" is displayed, then the
number of new calls on both lines will be
shown.

```
New calls
        10        12
     LINE1     LINE2
```

2 a) To view callers on both lines, go to step 3.
b) To view callers on either line, press
(CALLER ID) repeatedly to select the line.

Ex. LINE 1 is selected.

```
New calls
        10
     LINE1
```

3 Rotate (JOG DIAL) until the caller you want
to clear is displayed.

```
TOM REAGAN
444-5555
3:10P JUN.10
LINE1
```

4 Press (CLEAR).

• A long beep sounds and the information is
erased.
• In a few seconds, the display will show the
previous caller information.
• To return to the stand-by mode, press
(EXIT) or wait for 60 seconds.

```
C l e a r
```

(CALLER ID)
(EXIT)
Display

(✳)   (CLEAR)
          (JOG DIAL)

To clear all of the entries on the desired line(s) in the Caller List

1 Press (**CALLER ID**) to enter the list.

- "CALLER ID key=Select line JOG=Listing" is displayed, then the number of new calls on both lines will be shown.

```
New calls
            0        12
       LINE1     LINE2
```

2 a) To clear callers on both lines, go to step 3.
b) To clear callers on either line, press (**CALLER ID**) repeatedly to select the line.

Ex. LINE 1 is selected.

```
New calls
            0
       LINE1
```

3 Press (**CLEAR**).

```
LINE1
     All clear ?
*=Yes          #=No
```
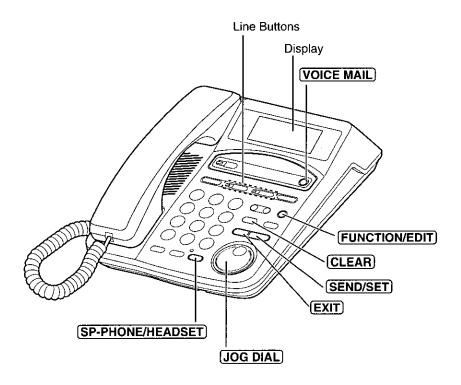
4 Press (∗) (Yes key).

- A long beep sounds and all of the entries for the selected line(s) are erased.
- The display will return to the stand-by mode.

```
LINE1
     All clear
```

- You can also clear all of the entries by setting the display to "End of new calls", "End of old calls" or "End" by rotating (**JOG DIAL**) after selecting the line in step 2.

Advanced Operation

37

Voice Mail Service

Voice mail service is an electronic on-line answering system offered by your telephone company. After you subscribe, the voice mail system can answer calls automatically when the line is busy or if calls are not answered. Callers can leave messages by following the pre-recorded instructions. When voice mail messages are recorded, the (VOICE MAIL) button will flash. You can access the voice mail system quickly by using the (VOICE MAIL) button.

To use the (VOICE MAIL) button, you must store your access phone number for the line first.

Line Buttons

Display

(VOICE MAIL)

(FUNCTION/EDIT)

(CLEAR)

(SEND/SET)

(EXIT)

(SP-PHONE/HEADSET)

(JOG DIAL)

Storing an Access Number in Your Voice Mail

Be sure that the handset is on the cradle, the AC adaptor is connected and the SP-PHONE/HEADSET indicator light is off.

1 Press (FUNCTION/EDIT).

```
→Date and time
  Area code
  2nd area code
-Function list-
```

2 Rotate (JOG DIAL) until "Voice mail #" is selected.

• The arrow points to "Voice mail #".

```
  2nd area code
→Voice mail #
  Voice mail tone
-Function list-
```

3 Press (SEND/SET).

```
  Voice mail #
           :Line1
SET=Next
```

4 Rotate (JOG DIAL) to select the desired line, "Line1" or "Line2".

```
  Voice mail #
           :Line2
SET=Next
```

5 Press (SEND/SET) (Next key).

• "Enter V.M. #" is displayed.
• The current set number is displayed, if it was stored beforehand.

```
Enter V.M. # >
[]
SET=Save
```

6 Enter your access phone number up to 32 digits.

• If you misdial, press (CLEAR).
  Digits are erased from the right.

```
12-345-6789[]

SET=Save
```

7 Press (SEND/SET) (Save key).

• A long beep sounds and the number is saved.
• The display will return to the function list. To program the other line, start from step 3.
• To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

```
12-345-6789

*** Saved ***
```
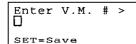
• You can exit the programming mode any time by pressing (EXIT).
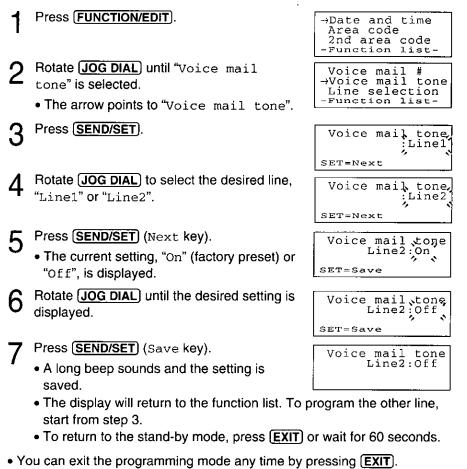
Advanced Operation

Setting the Voice Mail Tone

If your voice mail service sends a voice mail tone after a new message has finished recording, set to "On". The (VOICE MAIL) button will flash if a message was recorded in your mailbox. You will hear a series of voice mail tones then a dial tone after lifting the handset or pressing (SP-PHONE/HEADSET). (Contact your service provider about your service.) Set to "Off" when:

— you do not subscribe to a voice mail service,

— your voice mail service does not send a voice mail tone, or

— the unit is connected to a PBX.

Your phone comes from the factory set to "On".

Be sure that the handset is on the cradle, the AC adaptor is connected and the SP-PHONE/HEADSET indicator light is off.

1 Press (FUNCTION/EDIT).

```
→Date and time
 Area code
 2nd area code
-Function list-
```

2 Rotate (JOG DIAL) until "Voice mail tone" is selected.

• The arrow points to "Voice mail tone".

```
 Voice mail #
→Voice mail tone
 Line selection
-Function list-
```

3 Press (SEND/SET).

```
Voice mail tone
          :Line1
SET=Next
```

4 Rotate (JOG DIAL) to select the desired line, "Line1" or "Line2".

```
Voice mail tone
          :Line2
SET=Next
```

5 Press (SEND/SET) (Next key).

• The current setting, "On" (factory preset) or "Off", is displayed.

```
Voice mail tone
    Line2:On
SET=Save
```

6 Rotate (JOG DIAL) until the desired setting is displayed.

```
Voice mail tone
    Line2:Off
SET=Save
```

7 Press (SEND/SET) (Save key).

• A long beep sounds and the setting is saved.

```
Voice mail tone
    Line2:Off
```

• The display will return to the function list. To program the other line, start from step 3.

• To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

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

Listening to Voice Mail Message(s)

Up to 4 minutes after receiving a voice mail message, the (VOICE MAIL) button will flash. To listen to your voice mail, perform the following steps.

1 Press (VOICE MAIL).

- The display shows if there are voice mail messages recorded for LINE 1 or not, and LINE 1's access number.

Ex. LINE 1 has voice mail message(s).

```
Voice mail :Yes
11-222-3333
    LINE1
```

2 a) To listen to voice mail messages for LINE 1, go to step 3.

b) To check voice mail messages for LINE 2, press (VOICE MAIL) again.

- The display shows if there are voice mail messages recorded for LINE 2 or not, and LINE 2's access number.

Ex. LINE 2 has no voice mail messages.

```
Voice mail :None
12-345-6789
    LINE2
```

- Each time you press (VOICE MAIL), the line will change. You can also rotate (JOG DIAL) to select the desired line.
- To cancel listening to messages, press (EXIT).

3 Lift the handset or press (SP-PHONE/HEADSET).

- The unit is connected to the telephone line and automatically dials the number.
- You can also press (SEND/SET) or a line button instead of (SP-PHONE/HEADSET).

```
>12-345-6789
```

4 Follow the pre-recorded instructions.

5 When finished, place the handset on the cradle or press (SP-PHONE/HEADSET).

- The display will return to the stand-by mode.

- The line which calls your voice mail service depends on the "Line Selection" (p. 53).
- When the (VOICE MAIL) button still flashes even if you have listened to your voice mail message(s), press and release (FUNCTION/EDIT). Then press and hold (VOICE MAIL) until the unit beeps and press (EXIT). The button will turn off.
- If your voice mail service uses a voice mail tone and the recorded message is over 3 minutes long, the (VOICE MAIL) button may not flash.
- If your voice mail service uses a voice mail tone, the tone will be heard from any parallel connected phone on the same line. If you use another phone to retrieve messages, you have to dial your access number manually.
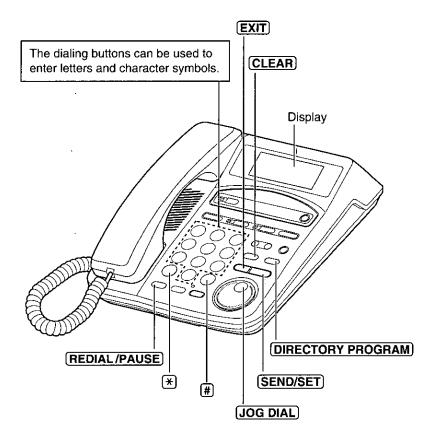
Advanced Operation

41

Using the Directory

You can store up to 50 names and phone numbers in the directory. 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.
You can also select a separate ring tone for items by selecting "Private ring" during storing. "Private ring" will sound after the first ring.
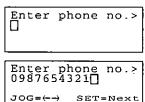
Storing Names and Numbers in the Directory

(EXIT)

(CLEAR)

The dialing buttons can be used to enter letters and character symbols.

Display

(DIRECTORY PROGRAM)

(REDIAL/PAUSE)

(✱)

(#)

(SEND/SET)

(JOG DIAL)

1 Press (DIRECTORY PROGRAM).

- The display shows the number of remaining directory items, then "Enter name".

```
Program new
          directory
50
items remaining
```

```
Enter name >
□

JOG=←→   SET=Next
```

2 Enter a name up to 16 characters with the dialing buttons, (JOG DIAL), ⊛ (←) or ⌗ (→).

- See the steps for entering names and symbols (p. 44).

```
Enter name >
Tom Jones⬚

JOG=←→   SET=Next
```

3 Press (SEND/SET) (Next key).

```
Enter phone no.>
□

```

4 Enter a phone number up to 16 digits.

- If you misdial, press (CLEAR). The digit at the cursor is erased.
- You can use (JOG DIAL) to move the cursor to the right or left.

```
Enter phone no.>
0987654321□
JOG=←→   SET=Next
```

5 Press (SEND/SET) (Next key).

```
Private ring ?

*=Yes        #=No
```

6 a) If you do not want to select private ring, press ⌗ (No key).

b) If you want to select private ring, press ⊛ (Yes key).

- A long beep sounds and the item is saved.
- The display will return to step 1. You can continue storing another item.
- To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

```
Tom Jones
098-765-4321

***  Saved  ***
```

```
Tom Jones
098-765-4321
Private
***  Saved  ***
```
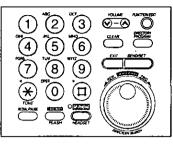
Advanced Operation

43

Steps for Entering Names and Symbols

The dialing buttons can be used to enter letters and character symbols.
Pressing each button selects a character as shown below.

Keys	Number of times you press each key										
	1	2	3	4	5	6	7	8	9	10	11
(1)	#	&	'	(	)	*	,	−	.	/	1
(2)	A	B	C	a	b	c	2				
(3)	D	E	F	d	e	f	3				
(4)	G	H	I	g	h	i	4				
(5)	J	K	L	j	k	l	5				
(6)	M	N	O	m	n	o	6				
(7)	P	Q	R	S	p	q	r	s	7		
(8)	T	U	V	t	u	v	8			.	
(9)	W	X	Y	Z	w	x	y	z	9		
(0)	0	Blank									
(JOG DIAL)	To move the cursor ☐ to the right or left.										
(*)	To move the cursor ☐ to the left.										
(#)	To move the cursor ☐ to the right.										

If you make a mistake while entering a name

Use (JOG DIAL) to move the cursor to the incorrect character, then make the correction. You can also use (*) (←) or (#) (→) to move the cursor for corrections. You can delete one character by pressing (CLEAR).
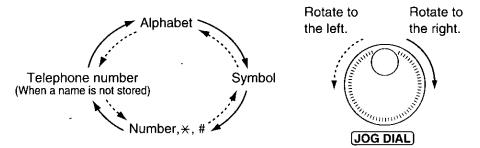
For example, to enter "Tom Jones":

1 Press **DIRECTORY PROGRAM**.

• The display shows the number of remaining directory items, and then the display on the right is shown.

```
Enter name >
□
JOG=←→  SET=Next
```

2 Press **8**.

```
Enter name >
T
JOG=←→  SET=Next
```

3 Press **6** six times, then press **#** (→) to move the cursor to the right.

```
Enter name >
To□
JOG=←→  SET=Next
```

4 Press **6** four times.

```
Enter name >
Tom
JOG=←→  SET=Next
```

5 Press **#** (→) twice to enter a blank.

```
Enter name >
Tom □
JOG=←→  SET=Next
```

6 Press **5**.

```
Enter name >
Tom J
JOG=←→  SET=Next
```

7 Press **6** six times, then press **#** (→) to move the cursor to the right.

```
Enter name >
Tom Jo□
JOG=←→  SET=Next
```

8 Press **6** five times.

```
Enter name >
Tom Jon
JOG=←→  SET=Next
```

9 Press **3** five times.

```
Enter name >
Tom Jone
JOG=←→  SET=Next
```

10 Press **7** eight times.

```
Enter name >
Tom Jones
JOG=←→  SET=Next
```

11 When finished, press **SEND/SET** (Next key).

• To continue entering a phone number, see page 43, from step 4.

```
Enter phone no.>
□
```

Advanced Operation

45

Finding Items in the Directory

Rotate (JOG DIAL) until the desired name is displayed.
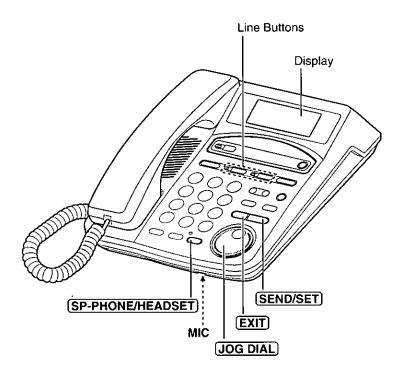• All directory items are sorted in the following order:

Alphabet

Telephone number
(When a name is not stored)

Symbol

Number, ✳, #

Rotate to the left.

Rotate to the right.

(JOG DIAL)

To search for a name by the initial

1 Rotate (JOG DIAL) to enter the directory.

```
ANN
456-7890

-Directory list-
```

2 Press the dialing button for the first letter of the desired name repeatedly (see the index table below).
Ex. To find "Frank", press ③ repeatedly until the first item under "F" is displayed.

```
Fanny
123-4567

-Directory list-
```

3 Rotate (JOG DIAL) to the right until the desired name is displayed.

```
Frank
321-5555

-Directory list-
```

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

• You can leave the directory any time by pressing press (EXIT).

Dialing from the Directory

Line Buttons

Display

SP-PHONE/HEADSET

SEND/SET

EXIT

MIC

JOG DIAL

1 Rotate (JOG DIAL) until the desired name is displayed.

- You can also find the item by searching by the initial (p. 46).
- To exit the directory, press (EXIT).

```
Mary
456-7890
-Directory list-
```

2 Lift the handset or press (SP-PHONE/HEADSET).

- The number is dialed automatically.
- You can also press (SEND/SET) or a line button instead of (SP-PHONE/HEADSET).

```
Mary
>456-7890
```

```
7:39PM JUN. 1
0-00-00
    LINE1
```

3 When the other party answers, talk into the handset or **MIC**.

4 To hang up, place the handset on the cradle or press (SP-PHONE/HEADSET).

Changing an Item in the Directory

1 Rotate (JOG DIAL) until the desired item is displayed.

```
Jane
123-4567
-Directory list-
```

- You can also find the item by searching by the initial (p. 46).

2 Press (FUNCTION/EDIT).

```
Enter name >
Jane
JOG=←→  SET=Next
```

- If you do not need to change the name, go to step 4.

3 Edit the name by using the dialing buttons, (JOG DIAL), (*) (←) or (#) (→) (p. 44) up to 16 characters.

```
Enter name >
Jane Walker
JOG=←→  SET=Next
```

4 Press (SEND/SET) (Next key).

```
Enter phone no.>
1234567
JOG=←→  SET=Next
```

- If you do not need to change the number, go to step 6.

5 Enter the new number up to 16 digits.

```
Enter phone no.>
0981234567
JOG=←→  SET=Next
```

- You can use (JOG DIAL) to move the cursor for corrections.
- The digit at the cursor is erased by pressing (CLEAR).

6 Press (SEND/SET) (Next key).

```
Private ring ?

*=Yes      #=No
```

7 a) If you do not want to select private ring, press (#) (No key).

```
Jane Walker
098-123-4567
***  Saved  ***
```

b) If you want to select private ring, press (*) (Yes key).

```
Jane Walker
098-123-4567
Private
***  Saved  ***
```

- A long beep sounds and the changed item is saved.
- The display will return to step 1. You can continue editing another item.
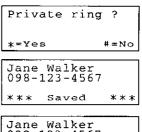- To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

- You can exit the programming mode any time by pressing (EXIT).

Clearing an Item from the Directory

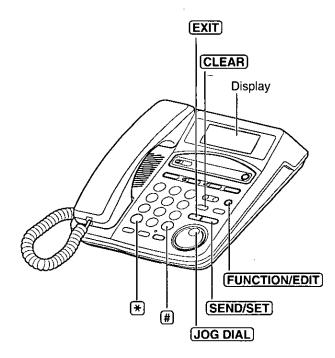**1** Rotate (JOG DIAL) until the desired name is displayed.

- You can also find the item by searching by the initial (p. 46).

Ex. To erase "Helen"

```
Helen
333-4444
-Directory list-
```

2 Press (CLEAR).
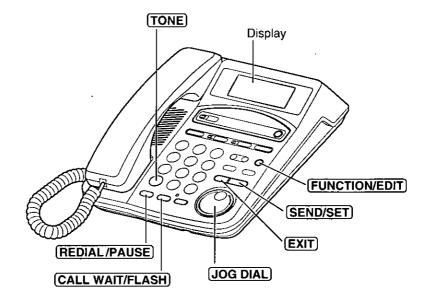
```
Clear directory?
Helen
333-4444
*=Yes        #=No
```

3 Press * (Yes key).

- A long beep sounds and the item is erased.
- In a few seconds, the display will show the next item.
- To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

```
C l e a r
```

- You can exit the programming mode any time by pressing (EXIT).

(EXIT)

(CLEAR)

Display

(FUNCTION/EDIT)

* #

(SEND/SET)

(JOG DIAL)

Advanced Operation

49

Special Features

TONE

Display

FUNCTION/EDIT

SEND/SET

EXIT

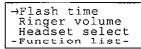REDIAL /PAUSE

CALL WAIT/FLASH

JOG DIAL

FLASH Button

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

Selecting the flash time

The flash time depends on your telephone exchange or host PBX.
You can select from flash times "5 to 995 ms (milliseconds)" for each line by programming. Your phone comes from the factory set to "700 ms".
Be sure that the handset is on the cradle, the AC adaptor is connected and the SP-PHONE/HEADSET indicator light is off.

1 Press (FUNCTION/EDIT).

```
→Date and time
  Area code
  2nd area code
 -Function list-
```

2 Rotate (JOG DIAL) until "Flash time" is selected.

• The arrow points to "Flash time".

```
→Flash time
  Ringer volume
  Headset select
 -Function list-
```

3 Press (SEND/SET).

```
Flash time
        :Line1
SET=Next
```

4 Rotate (JOG DIAL) to select the desired line, "Line1" or "Line2".

```
Flash time
        :Line2
SET=Next
```

5 Press (SEND/SET) (Next key).

• The current setting is displayed.

```
Flash time
   Line2:700ms
SET=Save
```

6 Rotate (JOG DIAL) until the desired time is displayed.

```
Flash time
   Line2:995ms
SET=Save
```

7 Press (SEND/SET) (Save key).

• A long beep sounds and the time is saved.
• The display will return to the function list. To program the other line, start from step 3.
• To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

```
Flash time
   Line2:995ms
```

• You can exit the programming mode any time by pressing (EXIT).
• If you are connected via a PBX, a longer flash time may be necessary to use PBX functions (transferring a call, etc.). Consult with your PBX supplier for the correct setting.

Advanced Operation

For Call Waiting Service Users

During a conversation, if another call is being received on the same line, you will hear a call-waiting tone.
Press (CALL WAIT/FLASH) to answer the second call.

- The first call is put on hold.
- To return to the first caller, press (CALL WAIT/FLASH) again.
- The call waiting service is not available when:
  — you are having a conference call (p. 27), or
  — a parallel connected telephone on the same line is in use.
- If this function does not operate properly, the flash time may not be set correctly. Consult with your telephone company for details. See pages 50 and 51 on how to adjust the flash time.

Visual Call Waiting (Call Waiting ID) Service

Visual Call Waiting (Call Waiting ID) Service allows the unit to display the second caller's information. After you hear a call-waiting tone while talking, the unit will display

```
- Call waiting -
Nancy Brown
1-000-222-3333
   LINE1
```

"- Call waiting -", and the caller's name and phone number.

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

Temporary Tone Dialing (For Rotary or Pulse Service Users)

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.

How to Use the PAUSE Button
(For Analog PBX Line/Long Distance Service Users)

We recommend you press (REDIAL/PAUSE) if a pause is required for dialing with a PBX or to access a long distance service.
Ex. Line access number ⑨ (PBX)

⑨ ➡ (REDIAL/PAUSE) ➡ | Phone number |

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

Line Selection

The unit will automatically select a free line which is not being used by a parallel connected telephone when you make a call. Also the unit will select the called line when you answer a call. To change the line selection, program as follows.

Be sure that the handset is on the cradle, the AC adaptor is connected and the SP-PHONE/HEADSET indicator light is off.

1 Press [FUNCTION/EDIT].

```
→Date and time
  Area code
  2nd area code
 -Function list-
```

2 Rotate [JOG DIAL] until "Line selection" is selected.

- The arrow points to "Line selection".

```
→Line selection
  Dialing mode
  Incoming call..
 -Function list-
```

3 Press [SEND/SET].

- The current selection is displayed.
Line 1: Line 1 will be selected.
Line 2: Line 2 will be selected.
Auto: A free line will be selected (LINE 1 has priority) when making a call. The called line is automatically selected when answering a call (factory preset).

```
Line selection
           :Auto
SET=Save
```

4 Rotate [JOG DIAL] until the desired line selection is displayed.

```
Line selection
           :Line2
SET=Save
```

5 Press [SEND/SET] (Save key).

- A long beep sounds and the line selection is saved.
- The display will return to the function list. To return to the stand-by mode, press [EXIT] or wait for 60 seconds.

```
Line selection
           :Line2
```

- You can exit the programming mode any time by pressing [EXIT].
- Any line can be selected manually regardless of the mode selected in step 4 by pressing the line button.

Advanced Operation

Incoming Call Tone

While one line is being used, you may be informed if another call has arrived on the other line by two tones. This incoming call tone can be set/deleted by programming. Your phone comes from the factory set to "Off".

Be sure that the handset is on the cradle, the AC adaptor is connected and the SP-PHONE/HEADSET indicator light is off.

1 Press (FUNCTION/EDIT).

```
→Date and time
 Area code
 2nd area code
-Function list-
```

2 Rotate (JOG DIAL) until "Incoming call.." is selected.

- The arrow points to "Incoming call..".

```
 Line selection
 Dialing mode
→Incoming call..
-Function list-
```

3 Press (SEND/SET).

- The current setting is displayed.
  On: The incoming call tone will be heard as long as the other line rings.
  2: The incoming call tone will only be heard 2 times.
  Off: The incoming call tone will not be heard (factory preset).

```
 Incoming call
        tone:Off
 SET=Save
```

4 Rotate (JOG DIAL) until the desired setting is displayed.

```
 Incoming call
        tone:On
 SET=Save
```
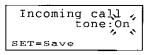
5 Press (SEND/SET) (Save key).

- A long beep sounds and the setting is saved.
- The display will return to the function list. To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

```
 Incoming call
        tone:On
```

- You can exit the programming mode any time by pressing (EXIT).
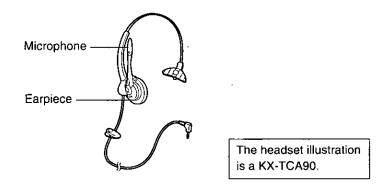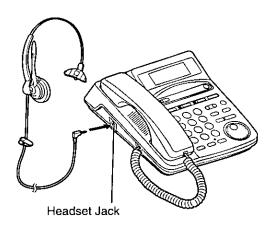
Using an Optional Headset ➡

Plugging an optional headset into the unit provides a handsfree phone conversation.
Please use only a Panasonic KX-TCA80 or KX-TCA90 headset. To order, call the accessories telephone number on page 3.

Microphone

Earpiece

The headset illustration is a KX-TCA90.

Connecting an Optional Headset to the Unit

Connect an optional headset to the headset jack as shown below.

Headset Jack

• During a power failure, you cannot use an optional headset.

Useful Information

Selecting the Headset/Speakerphone

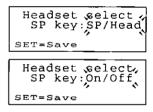When an optional headset is connected, you can select one of the following (SP-PHONE/HEADSET) button modes.

Each time you press (SP-PHONE/HEADSET), you can switch to the optional headset or speakerphone (**SP key: SP/Head** mode: factory preset).

OR

If you do not want to to use the speakerphone while the optional headset is connected, pressing (SP-PHONE/HEADSET) will make/answer a call or disconnect the line (**SP key: On/Off** mode).

If you want to change the mode, proceed as follows.

Be sure that the handset is on the cradle, the AC adaptor is connected and the SP-PHONE/HEADSET indicator light is off.

1. Press (FUNCTION/EDIT).
2. Rotate (JOG DIAL) until "Headset select" is selected.
3. Press (SEND/SET).

   • The current mode is displayed.

   ```
   Headset select
     SP key:SP/Head
   SET=Save
   ```

4. Rotate (JOG DIAL) until the desired mode is displayed.

   ```
   Headset select
     SP key:On/Off
   SET=Save
   ```

5. Press (SEND/SET) (Save key).

   • A long beep sounds and the mode is saved.
   • The display will return to the function list. To return to the stand-by mode, press (EXIT) or wait for 60 seconds.

How to Wear an Optional Headset

Place the headset on your head and adjust the microphone to a comfortable position.
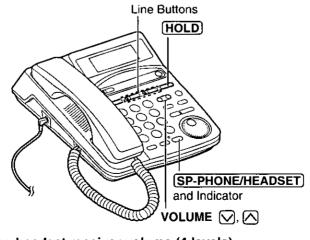

▶

• Place the microphone near your mouth.

Making/Answering Calls

If you select "SP key: SP/Head mode" (p. 56)

1 Press (SP-PHONE/HEADSET) to make or answer a call.

- The SP-PHONE/HEADSET indicator light flashes quickly.
- You may also press the line button.
- If you misdial when making a call, lift the handset and place it back on the cradle to hang up. Then press (SP-PHONE/HEADSET) and dial again.

2 To hang up, lift the handset and replace it.

- While using an optional headset, you can switch to the speakerphone by pressing (SP-PHONE/HEADSET). Each time you press the button, the call will switch to the optional headset or speakerphone.

If you select "SP key: On/Off mode" (p. 56)

1 Press (SP-PHONE/HEADSET) to make or answer a call.

- The SP-PHONE/HEADSET indicator light flashes quickly.
- You may also press the line button.
- If you misdial when making a call, press (SP-PHONE/HEADSET) twice and dial again.

2 To hang up, press (SP-PHONE/HEADSET).

Line Buttons
(HOLD)
(SP-PHONE/HEADSET)
and Indicator
VOLUME ☑, ☒

To adjust the headset receiver volume (4 levels):
While using the headset, press VOLUME ☒ or ☑.

➡ Using an Optional Headset

During a conversation with an optional headset:

- The SP-PHONE/HEADSET indicator light flashes quickly.
- You can switch a call to the handset by lifting it off the cradle.
- If you disconnect the optional headset, you can continue the conversation with the speakerphone.

Using the Other Line During a Conversation

1 **Ex. If you are using LINE 1**
During a conversation, press (HOLD) to put the first call (LINE 1) on hold.

2 Press the other line button (LINE 2) to make or answer the second call.

3 To return to the first call, press the line button for the first call (LINE 1).

Before Requesting Help →

Problem	Remedy
The unit does not work.	• Check the settings (p. 10–15). • Unplug the AC adaptor to reset. Plug in, then try again.
The unit does not ring.	• The ringer volume is set to "Off" for the line(s). Set to "High" or "Low" (p. 17). • When the line is connected to a low voltage system such as a PBX, the unit will not ring. Set the line mode to "B" (p. 15).
The line indicators do not work properly.	• Check the settings (p. 10–15). • The line mode selection is incorrect. See page 15.
The line red indicator(s) light never go(es) out.	• Unplug the AC adaptor, then plug in.
You cannot dial by pressing (SP-PHONE/HEADSET) or a line button, and the SP-PHONE/HEADSET indicator light flashes quickly.	• The telephone line cord(s) is(are) disconnected. Check the connection(s) (p. 11, 12).
You cannot program function items, such as the dialing mode.	• Programming is not available when the handset is off the cradle or the SP-PHONE/HEADSET indicator lights. • Do not pause for over 60 seconds while programming.
Speech cuts occur during a conversation with the speakerphone.	• If another call is received on the other line, the conversation will be cut off in order to receive the Caller ID information.
You cannot store a name and phone number in the directory.	• Do not pause for over 60 seconds while storing.

➡ **Before Requesting Help**

Problem	Remedy
While programming or searching, the unit starts to ring and stops the program/search.	• To answer the call, press the line button whose indicator is flashing red. Start from the beginning after hanging up.
During a conversation, the other line indicator flashes red and the display shows another caller's information.	• Someone is calling you on the other line. To answer, press (**HOLD**) to put the current call on hold. Then press the line button whose indicator is flashing red (p. 26).
The unit does not display the caller's name and/or phone number.	• Other telephone equipment may be interfering with your phone. Disconnect them and try again. • Other electrical appliances connected to the same outlet may be interfering with the Caller ID information. Telephone line noise may be affecting the Caller ID information.
A caller called you, but the caller's information was not recorded in the Caller List.	• If you receive two calls at the same time, only one of the Caller ID information can be recorded.
The display goes to the stand-by mode while viewing the Caller List or directory list items.	• Do not pause for over 60 seconds while searching.
When a second call is received on the same line during a conversation, the unit does not display the new caller's name and/or phone number.	• The line mode selection is incorrect. See page 15.

Problem	Remedy
[REDIAL/PAUSE] does not function properly.	• 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. 52).
You cannot have a conversation using the optional headset.	• Make sure that the optional headset is connected properly (p. 55). • Press [SP-PHONE/HEADSET] to make or answer a call. • During a power failure, you cannot use the optional headset.
If you cannot solve your problem.	• Call our customer call center at 1-800-211-PANA(7262).

Useful Information

Important Safety Instructions

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

1. Read and understand all instructions.

2. Follow all warnings and instructions marked on this unit.

3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.

5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.

6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.

7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.

8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.

9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.

10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.

11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized 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

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

FCC and Other Information

If requested by the telephone company, inform them as follows:
FCC Registration No. ....(found on the bottom of the unit)
Ringer Equivalence 1.0B
The particular telephone lines to which the equipment is connected.

This unit must not be connected to a coin operated line.
If you are on a party line, check with your local telephone company.

Ringer Equivalence No. (REN):
The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:

(a) Promptly notify the customer.
(b) Give the customer an opportunity to correct the problem with their equipment.
(c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

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 before hanging up.
2. Perform such activities in the off-peak hours, such as early morning hours or late evenings.

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

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.

- **Environment** — do not place the unit in 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.
- **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 with your telephone company.

Useful Information

65

For product service

• Panasonic Servicenters are listed in the servicenter directory.
• Call 1-800-211-PANA(7262) for the location of an authorized servicenter.

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 on the back cover or to executive or regional sales offices. These locations do not repair consumer products.