

Panasonic

Integrated Telephone System

Operating Instructions

Model No. **KX-TSC35HKW**

Pulse-or-tone dialing capability

Preparation

Basic Operation

Advanced Operation

Useful Information



Caller ID Compatible

PLEASE READ BEFORE USE AND SAVE.

Manufactured by Kyushu Matsushita Electric (Malaysia) Sdn. Bhd. Senai
Malaysia

PQQX13489YA-BM F1202-0 ©

Before Initial Use

Thank you for purchasing your new Panasonic integrated telephone.

Caller ID, Call Waiting and Voice Mail Service, where available, are telephone company services. After subscribing to Caller ID, this phone will display a caller's phone number. Call Waiting Caller ID, which displays a second caller's phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting. After subscribing to Voice Mail Service, this phone's message-waiting display will be shown when there are messages in the mail box.

For your future reference

Serial No. _____ Date of purchase _____

(found on the bottom of the unit)

Name and address of dealer _____

Accessories (included)

Handset (p. 6)



one

Handset Cord (p. 6)



one

Telephone Line Cord (p. 6)



one

Wall Mounting Adaptor (p. 13)



one

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Advanced Operation

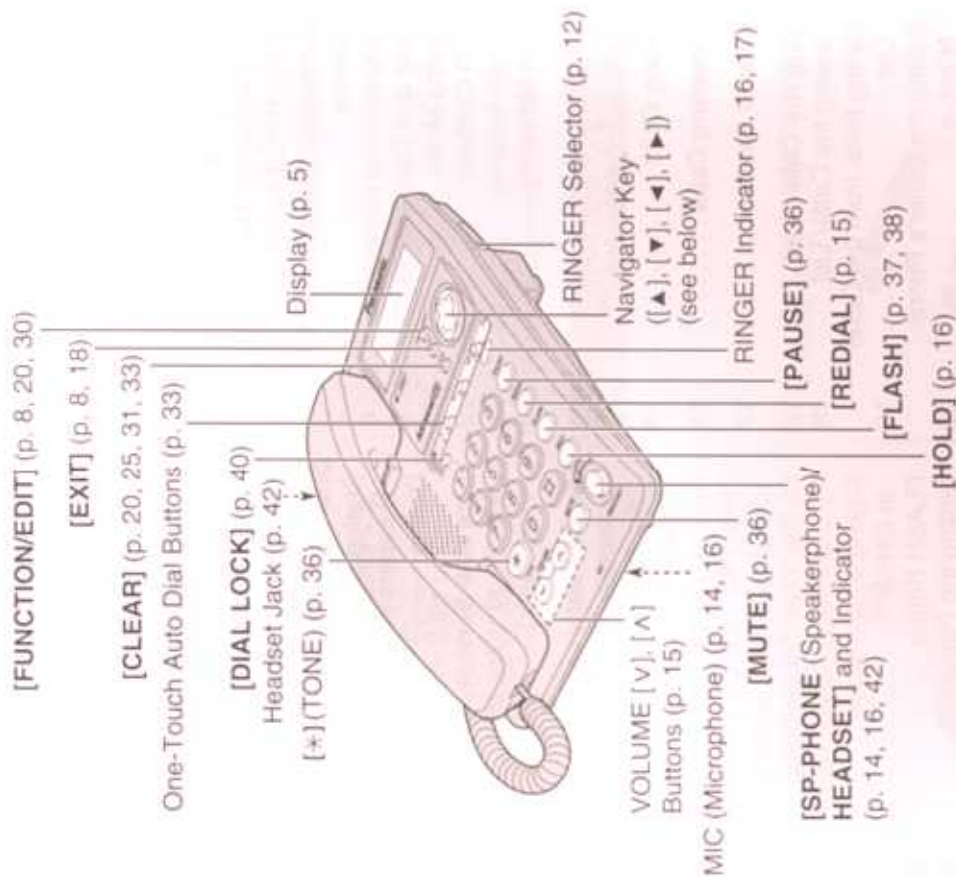
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Location of Controls



How to use the Navigator key

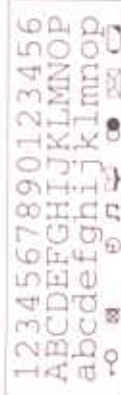
This key has four active areas that are indicated by arrows.



- Pressing the up and down arrows allows you to enter the Caller List and scroll through the function menu, the Caller List and the Speed Dial List.
- Pressing the right and left arrows allows you to enter the Speed Dial List and move the cursor when entering items. The right arrow is used to select or confirm your menu choices.

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

Display



(This display shows all of the possible configurations.)



While the unit is not in use, the display shows the current time and date, and the number of new calls.



If the display continuously shows "1.2:00AM 1.1" or "0:00 1.1" and "e" flashes, the clock needs adjusting (p. 9, 10).



During a conversation, the display shows the length of the call (Ex. 1 hour, 6 minutes and 35 seconds).



This is a display from the Caller List. The display shows:
 —the caller's number,
 —the time and date of the last call (Ex. Nov. 24, 11:50 AM), and
 —the number of times called (Ex. 3 times).

- : The dial lock mode is set. To cancel the mode, see page 40.
- : [MUTE] was pressed during a conversation (p. 36).
- : The unit plays music during the hold for a caller.
- : The unit enters in the Speed Dial List.
- : [REDIAL] was pressed while the handset is on the cradle and SP-PHONE/HEADSET indicator is off (p. 15).
- : This display flashes, when the battery power is low. To replace the batteries, see page 43.
- : The voice mail message(s) is/are recorded (p. 35).
- : [PAUSE] was pressed while dialing or storing phone numbers.
- : [FLASH] was pressed while storing phone numbers.

Settings

Installing the Batteries



- 1 Press down in the direction of the arrow and open the cover (1).
- 2 Install the batteries in the proper order as shown (2), matching the correct polarity.
- 3 Close the battery cover.

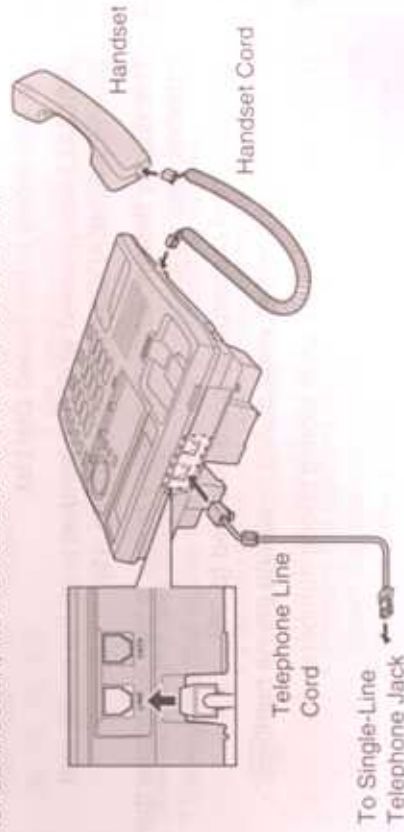
- Batteries are not included in the unit.
- Install three high quality "AA" size Alkaline (LR6) or Manganese (R6, UM-3) batteries. We recommend to use Alkaline batteries.
Battery life is: —about six months in use of Alkaline batteries.
—about three months in use of Manganese batteries.
Battery life may depend on usage conditions and ambient temperature.

The following features do not work without batteries.

- Display (p. 5)
- Caller ID services (p. 17)
- Speakerphone (p. 14, 16)
- FLASH button (p. 37)
- Memory recall (p. 15)
- Headset (p. 42)
- Programming (p. 8)
- Voice Mail Service (p. 35)
- Viewing/dialing the Speed Dial List while the handset is on the cradle (p. 29)

Connecting the Handset/Telephone Line Cord

After connection, lift the handset to check for a dial tone.

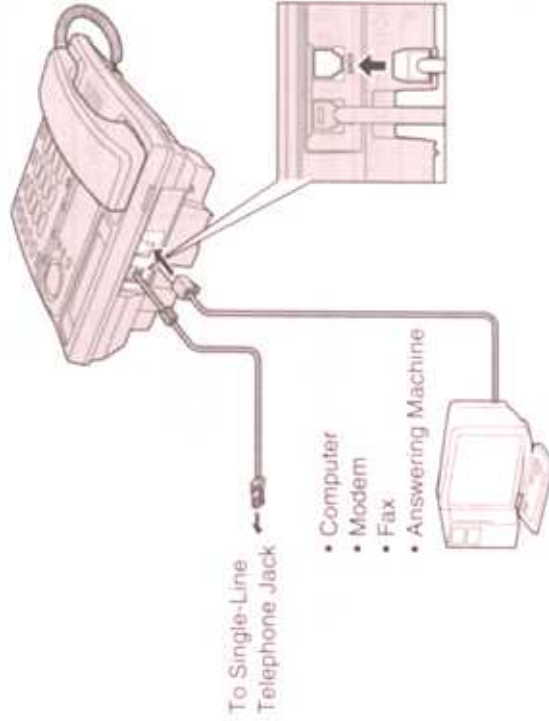


- Use only a Panasonic Handset for the KX-TSC35HKW
- Use only a telephone line cord included in the unit.
- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.

Connecting a Communication Device

If you connect a communication device (computer, modem, fax, answering machine, etc.) to the telephone line, you can connect it through this unit using the DATA jack.

After connecting the handset and telephone line cord (p. 6), connect the communication device telephone line cord to the DATA jack.



- Make sure the communication device is not in use before using this unit (making calls, storing phone numbers in memory etc.) or the communication device may not operate properly.

Programming Summary

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

Make sure that the handset is on the cradle and the SP-PHONE/HEADSET indicator light is off.

Press [FUNCTION/EDIT].

<Function menu>

Save speed dial.....To store names and phone numbers in memory (p.26, 32).

Program

Scroll to "Program" by pressing [▼] or [▲], and press [▶].

<Function menu>

LCD contrast.....To select the LCD contrast (p. 12).
 Set clock.....To adjust the time and date (p.9).
 Change password.....To change the password for the dial lock and call restriction (p.39).
 Call restrict.....To set the call restriction (p.41).
 Set flash time.....To select the flash time (p.38).
 Set dial mode.....To select the dialing mode (p.11).
 Set hold music.....To set a music during the hold (p.37).

During programming

- To select a desired function item, scroll through the items by pressing [▼] or [▲]. Then press [▶] to go to the next step.
- "....." indicates the beginning or end of the function menu.
- You can exit the programming mode any time by pressing [EXIT].
- If you do not press any buttons for 60 seconds, the unit will exit the programming mode.

Time and Date

You can select AM/PM or 24-hour clock by programming.

Make sure that the handset is on the cradle and the SP-PHONE/HEADSET indicator light is off.

- Press [FUNCTION/EDIT].
- Scroll to "Program" by pressing [▼] or [▲] and press [▶].
- Scroll to "Set clock" by pressing [▼] or [▲].
- Press [▶].
- Press [▶] (Set clock key).
- Enter the current year.
(Ex. To set 2002, enter "2002".)
 • You can set the year 2000 to 2099.
- Press [▼] (Next key).
- Enter the current time (hour and minute) using a 4-digit number.
(Ex. To set 9:30, enter "0930").
 • For AM/PM setting: Enter numbers between 0100 and 1259.
 • For 24-hour clock: Enter numbers between 0000 and 2359.
- Press [▼] (Next key).

LCD contrast
 ▶Set clock
 Change password

12:00AM 01.01
 0000 ▶=Set clock

Enter Year
 0000 ▼=Next

Enter Year
 2002 ▼=Next

Enter time
 12:00 ▼=Next

Enter time
 09:30 ▼=Next

*=AM/PM
 AM ▼=Next

- If numbers between 0000 and 0059, or 1300 and 2359 are entered, the time will automatically be set using the 24-hour clock. Go to the step 12.

(Continued →)

→ Settings

- 10 Press [*] to select "AM", "PM" or 24-hour clock.
(Ex. You select "PM".)

Display Option

AM ----- AM

PM ----- PM

[Blank display] ----- 24-hour clock

- Each time you press [*], the selection will change on the display.

- 11 Press [▼] (Next key).

Enter day.month
01.01 ▶=Save

- 12 Enter the current day and month using a 4-digit number.
(Ex. To set Dec. 27, enter "2712".)

Enter day.month
27.12 ▶=Save

- 13 Press [▶] (Save key).

- A long beep sounds.
- The clock starts working.
- The display will return to step 3. To exit the programming mode, press [EXIT] or wait for 60 seconds.

- You can go back to the previous screen by pressing [▲], when setting the time and date (steps 5 through 12).
- If 3 beeps sound when entering the time and date, the time and date entered are not correct. Enter the correct time and date.

If the batteries installed in the unit expired, the time and date will be shown as "12:00AM 1.1" or "0:00 1.1", and "Ⓢ" will flash while talking or after the battery replacement. Readjust the time/date.

For Caller ID service users (p. 17)

If a time display service is available with the Caller ID service:

- The Caller ID information will re-set the clock after the ring if the adjusted time and/or date is incorrect. However, if the time/date has not previously been set, the Caller ID information will not adjust the clock.

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.

Make sure that the handset is on the cradle and the SP-PHONE/HEADSET indicator light is off.

- 1 Press [FUNCTION/EDIT].

▶ Save speed dial
Program

- 2 Scroll to "Program" by pressing [▼] or [▲].

▶ Save speed dial
Program

- 3 Press [▶].

▶ LCD contrast
Set clock

- 4 Scroll to "Set dial mode" by pressing [▼] or [▲].

Set flash time
▶ Set dial mode
Set hold music

- 5 Press [▶].

- The current setting is displayed.

Dial mode
: Tone ▶=Save

- 6 Select "Pulse" or "Tone" by pressing [▼] or [▲].

- 7 Press [▶] (Save key).

- A long beep sounds.
- The display will return to step 4. To exit the programming mode, press [EXIT] or wait for 60 seconds.

- You can exit the programming mode any time by pressing [EXIT].

→ Settings

LCD Contrast

You can select the LCD contrast level from 1 to 4 by programming. Your phone comes from the factory set to 3. **Make sure that the handset is on the cradle and the SP-PHONE/HEADSET indicator light is off.**

- 1 Press [FUNCTION/EDIT].
- 2 Scroll to "Program" by pressing [▼] or [▲] and press [▶].



- 3 Press [▶] at "LCD contrast".
 - The current setting is displayed.



- 4 Select the desired contrast by pressing [▼] or [▲].
 - Each time you press [▼] or [▲], the LCD contrast will change.

- 5 Press [▶] (Save key).
 - A long beep sounds.
 - The display will return to step 2. To exit the programming mode, press [EXIT] or wait for 60 seconds.

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

Ringer Volume

You can select the ringer volume to HIGH, LOW or OFF. Your phone comes from the factory set to HIGH.



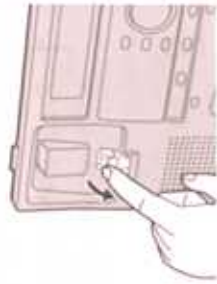
RINGER Selector:
Set to HIGH, LOW or OFF.
• When set to OFF, the unit will not ring.



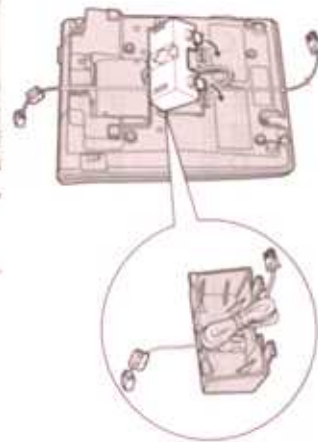
Wall Mounting

This unit can be mounted on a wall.

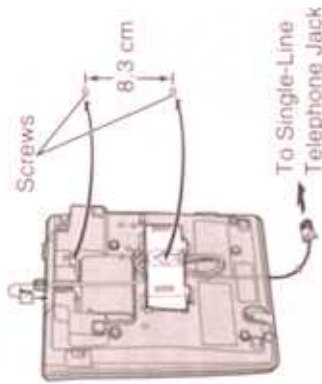
- 1 Pull down the handset hook until it locks, so the tab holds the handset.



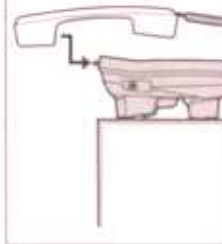
- 2 Tuck the telephone line cord inside the wall mounting adaptor, and push it in the direction of the arrow.
 - "UP" should be facing upward.



- 3 Install screws using the wall template below. Connect the telephone line cord. Mount the unit, and slide down.



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



Wall Template



Making Calls

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

Using the speakerphone

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

12:34PM 21.5

12:34PM 21.5
1234567890

12:34PM 21.5
00-00-00

12:34PM 21.5

During speakerphone operation

For best performance, please note the following:

- Talk alternately with the other party in a quiet room.
- If the other party has difficulty hearing you, press VOLUME [V] 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].

To redial the last number dialed

Using the handset: Lift the handset → press [REDIAL].
Using the speakerphone: Press [SP-PHONE/HEADSET] → press [REDIAL].

Automatic Redial:

When using the speakerphone or the headset, the unit redials the last dialed number up to 15 times within a 10-minute period if the line is busy. During redial, "waiting redial" will be displayed and the SP-PHONE/HEADSET indicator light flashes.

To redial using the redial list (Memory Redial)

The last 20 phone numbers dialed are stored in the redial list.

1. Press [REDIAL].
 - The last number dialed and "C" are displayed.
 - When the number dialed has been stored in the Speed Dialer List or One-Touch Dialer, the name is also displayed.
2. Scroll to the desired number by pressing [▼] or [▲].
 - You can also scroll through the list by pressing [REDIAL].
 - When you scroll to the most recent item, two beeps sound.
 - To exit the list, press [EXIT].
3. Lift the handset or press [SP-PHONE/HEADSET].
 - To erase an item, repeat steps 1 and 2, and press [CLEAR].
 - If "No items stored" is displayed, the list is empty.

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

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

Ex. Handset volume level: 2

Loud
Low■■■■■ High

■■■ shows one level.

Ex. Speaker volume level: 3

Loud
Low■■■■ High

■■■ shows one level.

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

→ Making Calls

To put a call on hold

Press **[HOLD]**.

- The SP-PHONE/HEADSET indicator flashes.
- If using the handset, you can place it on the cradle.
- During the hold, the caller will hear music. For canceling music, see page 37.

To release the hold

If the handset is on the cradle, lift the handset. If the handset is off the cradle, press **[HOLD]**. If using the speakerphone, press **[SP-PHONE/HEADSET]**.

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

Answering Calls

When a call is received, the unit rings, the RINGER indicator flashes quickly and "Incoming call" is displayed. You can answer a call by simply lifting the handset.

If you subscribe to a Caller ID service, the calling party's information will be displayed when the unit is ringing (p. 17).

Using the speakerphone

- 1 Press **[SP-PHONE/HEADSET]**.
 - The indicator lights.
- 2 Talk into the **MIC** (microphone).
- 3 To hang up, press **[SP-PHONE/HEADSET]**.
 - The indicator light goes out.

- When the ringer volume is set to OFF (p. 12), the unit will not ring.
- The Ringer indicator will flash when
 - a telephone number is dialed in PULSE mode, or
 - someone picks up or hangs up another phone connected to the same phone line.
- This is normal.

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 displayed when the unit is ringing.

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 from the most recent to the oldest call. When the 51st call is received, the oldest call is deleted.

Using the list, you can automatically call back a caller. You can store the callers' numbers from the Caller List in the Speed Dialer memory or the One-Touch Dialer memory.

How caller information is displayed when a call is received

The display shows the caller's phone number when the unit is ringing.*

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

1114447777



The RINGER indicator will flash quickly when a call is being received.

*Private name display

If you receive a call from one of the same phone numbers stored in the Speed Dial List or One-Touch Dialer, the caller's name will be displayed.

TINA ROBINSON
1114447777

- To use this function, names and phone numbers must be stored in the Speed Dial List (p. 26) or One-Touch Dialer (p. 32).
- Caller information will not 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.

• If the batteries installed in the unit have expired, Caller ID services will not be available.

• If the name and the time/date display service is available in your area, the display will show caller's names and the time/date the calls were received. For further information, please contact your telephone company.

Using the Caller List

If you have received 10 new calls, the number of new calls will be displayed as shown, while the unit is not in use.

Viewing the Caller List

To check who has called, follow the steps below.

- 1 Press [▼] or [▲] to enter the Caller List.
- 2 To search from the most recent call, press [▼].
 - To search from the oldest call, press [▲].
 - To scroll between callers, press [▼] or [▲].
- 3 To exit the Caller List, press [EXIT].

- If "No items stored" is displayed in step 1, the Caller List is empty.
- If more than one call is received from the same caller, the date and time of the most recent call will be recorded.

Ex. When you search from the most recent call:

Press [▼] or [▲] to enter the list.

Caller's list
2 new calls
▼▲ ▶=Speed dial

Press [▼].

1114447777
11:50AM 24.11

Press [▼].

JACK SMITH
1234567890
10:50AM 23.11 x4

Press [▼].

456789012345678->
10:00AM 22.11

Press [▼].

Caller's list
0 new calls
▼▲ ▶=Speed dial

Press [▼].

12:34AM 21.5
10 new calls

Caller's list
10 new calls
▼▲ ▶=Speed dial

4567890123456789
0123

** If an arrow (→) is displayed after the number, the whole phone number will not be shown. Press [◀] or [▶] to see the remaining numbers or to return to the previous display.
Each time you press [◀] or [▶], the display will change alternately.

Display meaning:

x2-x9: The number of times the same caller called (up to 9).
V: You have checked this caller information, answered the call or called back the caller.

Calling Back from the Caller List

- 1 Press [▼] or [▲] to enter the Caller List.
- 2 Scroll to the desired caller by pressing [▼] or [▲].
 - To exit the Caller List, press [EXIT] or wait for 60 seconds.
- 3 Lift the handset or press [SP-PHONE/HEADSET].
 - The displayed phone number is dialed automatically.
 - After a few seconds, the display will show the length of the call.

1234567890
10:50AM 23.11 x4

12:34PM 25.11
1234567890

12:34PM 25.11
00-00-00

- In some cases, you may have to edit the number before dialing (p. 20).
- 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 recorded in the Caller List.

- 1 Press [▼] or [▲] to enter the Caller List.
- 2 Scroll to the desired caller by pressing [▼] or [▲].
- 3 Press [FUNCTION/EDIT].
 - To add a number
Add a number to the current number.
 - To erase the number
Press [CLEAR] to erase the number.
 - To move the cursor, press [←] or [→].

1234567890
10:50AM 23.11 x4

01234567890
▼=Next

Storing Caller List Information in the Speed Dial List

You can store numbers that are in the Caller List in the Speed Dial list. **Make sure that the handset is on the cradle and the SP-PHONE/HEADSET indicator light is off.**

- 1 Press [▼] or [▲] to enter the Caller List.
- 2 Scroll to the caller you want to store in the Speed Dial List by pressing [▼] or [▲].
- 3 Press [FUNCTION/EDIT].
 - If the number requires editing, see page 20.
- 4 Press [▼] (Next key).
- 5 Press [▼] (Next key).

1234567890
10:50AM 23.11 x4

1234567890
▲=Edit ▼=Next

1234567890
▲=Edit ▼=Next

Enter name
JACK SMITH ▼=Next

Enter name
JACK SMITH ▼=Next

JACK SMITH
1234567890
▲=Edit ▼=Next

Enter list#: 01
or M1, M2, M3
▲=Save

- If there is no name information for the caller, "Enter name" will be displayed.
- If a name is not required, press [▼] (Next key) twice.
 - If a name is required, enter the name (p. 28). When finished, press [▼] (Next key) twice.
- The empty memory station number is selected automatically (Ex. The empty number is "01").
 - You can select the other memory station number (01 to 50) using the dialing buttons [0] to [9].

(Continued →)

Using the Caller List

- 6 Press [►] (Save key).

JACK SMITH
1234567890 #01

If the memory station number selected manually is occupied, the display on the right will be shown.

To overwrite, press [►] (Yes key).

To select other empty memory station

number, press [◀] (No key), enter an empty memory station number using the dialing buttons [0] to [9], then press [►] (Save key).

#01 is occupied
Overwrite?
◀=No ▶=Yes

- A long beep sounds.
- After a few seconds, the display will return to the Caller List. You can continue storing other items. To exit the Caller List, press [EXIT] or wait for 60 seconds.

- If 3 beeps sound and the display shows "Speed dial List Memory is full" in step 5, press [EXIT] to exit the list. To erase other stored items from the Speed Dial List, see page 31.
- To cancel during programming, press [EXIT]. Start again from step 1.
- You cannot store caller information in the Speed Dial List if a phone number is not displayed.

Basic Operation

Storing Caller List Information in the One-Touch Dialer Memory

You can store numbers in the Caller List to the one-touch auto dial buttons ([M1], [M2] and [M3]).

Make sure that the handset is on the cradle and the SP-PHONE/HEADSET indicator light is off.

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

- 2 Scroll to the caller you want to store in the one-touch dialer memory by pressing [▼] or [▲].

1234567890
10:50AM 23.11 x4

- 3 Press [FUNCTION/EDIT].

- If the number requires editing, see page 20.

1234567890 ▼=Next

- 4 Press [▼] (Next key).

1234567890 ▲=EDIT ▼=Next

- 5 Press [▼] (Next key).

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

Enter name ▼=Next

- a) If a name is not required, press [▼] (Next key) twice.

- b) If a name is required, enter the name (p. 28). When finished, press [▼] (Next key) twice.

Enter name
JACK SMITH ▼=Next

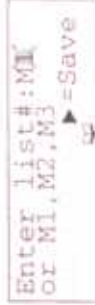
JACK SMITH
1234567890 ▲=EDIT ▼=Next

Enter list #: 01
or M1, M2, M3 ▶=Save

(Continued →)

→ Using the Caller List

- 6 Press one of the one-touch auto dial buttons ([M1], [M2] or [M3]). (Ex. [M1] is pressed.)



- 7 Press [▶] (Save key).

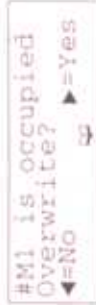


If the one-touch auto dial button selected manually is occupied, the display on the right will be shown.

To overwrite, press [▶] (Yes key).

To select the other empty one-touch auto dial button, press [◀] (No key), enter an empty one-touch auto dial button, then press [▶] (Save key).

- A long beep sounds.
- After a few seconds, the display will return to the Caller List. You can continue storing other items. To exit the Caller List, press [EXIT] or wait for 60 seconds.



- If 3 beeps sound and the display shows "Speed dial list Memory is full" in step 5, press [EXIT] to exit the list. To erase other stored items from the one-touch dialer memory, see page 33.
- To cancel during programming, press [EXIT]. Start again from step 1.
- You cannot store caller information in the one-touch auto dial buttons if a phone number is not displayed.

Erasing Caller List Information

After checking the Caller List, you can erase some or all of the entries. Make sure that the handset is on the cradle, and the SP-PHONE/HEADSET indicator light is off.

To erase a specific caller from the Caller List

- 1 Press [▼] or [▲] to enter the Caller List.
- 2 Scroll to the caller you want to erase from the Caller List by pressing [▼] or [▲].
- 3 Press [CLEAR].
 - A long beep sounds and the information is erased.
 - After a few seconds, the display will show the previous caller information.
 - To exit the Caller List, press [EXIT] or wait for 60 seconds.



To erase all entries in the Caller List

- 1 Press [▼] or [▲] to enter the Caller List.
- 2 Press [CLEAR].
- 3 Select "All clear" by pressing [▼] or [▲].
- 4 Press [▶] (Yes key) or [CLEAR].
 - A long beep sounds and all entries are erased.
 - The unit will exit the Caller List.



Speed Dialer

Storing Names and Phone Numbers in Speed Dial List

You can store up to 50 names and phone numbers in memory.

Make sure that the handset is on the cradle, and the SP-PHONE/HEADSET indicator light is off.

- 1 Press [FUNCTION/EDIT].
- 2 Press [▶] at "Save speed dial".

- 3 Enter a name, up to 15 characters with the dialing buttons [0] to [9] (p. 28).
 - To move the cursor, press [◀] or [▶].
 - If a name is not required, press [▼] (Next key) and go to step 5.
- 4 Press [▼] (Next key).

- 5 Enter a phone number up to 22 digits.
 - If you enter a wrong number, press [CLEAR] and enter the correct number.
- 6 Press [▼] (Next key).
 - The entered name and phone number are displayed.
 - If you want to change the storing name or number, press [▲] (Edit key) repeatedly to reach the desired display and change it.

Save speed dial Program

Enter name

Enter name Tom Jones

Enter phone no.

0987654321

Tom Jones
0987654321

7 Press [▼] (Next key).

- The empty memory station number is selected automatically. (Ex. The empty number is "12".)
- You can select the other memory station number [0] to [50] using the dialing buttons [0] to [9].

Enter list#: 12
or M1, M2, M3

8 Press [▶] (Save key).

If the memory station number selected manually is occupied, the display on the right will be shown.

- To overwrite, press [▶] (Yes key).
To select other empty memory station number, press [◀] (No key), enter an empty memory station number using the dialing buttons [0] to [9], then press [▶] (Save key).
- A long beep sounds.
 - To continue storing other items, repeat from step 2.
 - The display will return to step 1. To exit the programming mode, press [EXIT] or wait for 60 seconds.

Tom Jones
0987654321 #12

#12 is occupied
Overwrite? ▶=Yes
◀=No

- If the display shows "Speed dial list Memory is full" in step 2, press [EXIT] to exit the list. To erase other stored items from the Speed Dial List, see page 31.
- You can exit the programming mode any time by pressing [EXIT].
- If a pause is required for dialing, press [PAUSE] where needed. If required, you can also store [FLASH] in a phone number. Pressing [PAUSE] or [FLASH] counts as one digit (p. 36, 38).

Selecting characters to enter names

The dialing buttons ([0] to [9]) can be used to enter letters and symbols. Pressing each button selects a character as shown below.

Keys	Number of times key is pressed										
	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	Space									
[◀]	To move the cursor to the left										
[▶]	To move the cursor to the right										

If you make a mistake while entering a name

Use [◀] or [▶] to move the cursor to the incorrect character, press [CLEAR] to delete and enter the correct character. Each time you press [CLEAR], a character is erased.

For example, to enter "Tom Jones":

- 1 Press [8] four times.
- 2 Press [6] three times, then press [▶].
- 3 Press [6] once, then press [▶] twice.
- 4 Press [5] four times, press [6] three times, then press [▶].
- 5 Press [6] twice, press [3] twice, then press [7] four times.

Finding Stored Items

Make sure that the handset is on the cradle, and the SP-PHONE/HEADSET indicator light is off.

- 1 Press [◀] or [▶] to enter the Speed Dial List.

Speed dial list
 ▼▲ or Enter no.
 ▶=Caller's list
- 2 Scroll to the desired item by using [▼] or [▲].

Ann
 1234567890 #01

 - All Speed Dial items are stored in order shown below.
 - You can get an item by using the memory station number (01 to 50) directly.

Press [▼].

#01 → #02 → #03 → #50 → #M1 → #M3

 Press [▲].

- If "No items stored" is displayed in step 1, the Speed Dial List is empty.
- If "Empty" is displayed in step 2, the memory station is empty.
- You can exit the Speed Dial List any time by pressing [EXIT].

Dialing

- 1 Press [◀] or [▶] to enter the Speed Dial List.

Frank
 4567890 #33
- 2 Scroll to the desired item by using [▼] or [▲].
 - You can get an item by using the memory station number (01 to 50) directly.
- 3 Lift the handset or press [SP-PHONE/HEADSET].
- 4 To hang up, place the handset on the cradle or press [SP-PHONE/HEADSET].
 - You can also dial the stored number as follows:
 1. Lift the handset or press [SP-PHONE/HEADSET].
 2. Find the desired item (above steps 1 and 2).
 3. Press [▶].

→ Speed Dialer

Editing

Make sure that the handset is on the cradle, and the SP-PHONE/HEADSET indicator light is off.

- 1 Press [◀] or [▶] to enter the Speed Dial List.
- 2 Scroll to the Speed Dial item you want to change by using [▼] or [▲].
 - You can get an item by using the memory station number (01 to 50) directly.

Jane 1234567	#05
-----------------	-----

- 3 Press [FUNCTION/EDIT].

Enter name Jane	▼=Next
--------------------	--------

- 4 Edit the name using the dialing buttons (p. 28).

- To clear an incorrect character, move the cursor to the character by using [◀] or [▶], then press [CLEAR].

- 5 Press [▼] (next key).

1234567	▼=Next
---------	--------

- 6 Insert the required numbers.

- If you enter a wrong number, move the cursor by using [◀] or [▶], press [CLEAR] and enter the correct number.
- After editing, to continue with storing procedures, repeat steps 6 to 8 on pages 26 and 27.

Erasing

Make sure that the handset is on the cradle, and the SP-PHONE/HEADSET indicator light is off.

- 1 Press [◀] or [▶] to enter the Speed Dial List.
- 2 Scroll to the Speed Dial item you want to erase by using [▼] or [▲].
 - You can get an item by using the memory station number (01 to 50) directly.
- 3 Press [CLEAR].
 - To stop erasing, press [◀] (No key).

Helene 0123456789	#25
----------------------	-----

Clear?	▶=Yes
◀=No	

- 4 Press [▶] (Yes key) or [CLEAR].

- A long beep sounds.
- To erase other items, repeat from step 2.
- To exit the Speed Dial List, press [EXIT] or wait for 60 seconds.

Clear

Empty	#25
-------	-----

- You can exit the programming mode any time by pressing [EXIT].

One-Touch Dialer

Storing Names and Phone Numbers in Memory

You can store up to 3 names and phone numbers in the one-touch auto dial buttons.

Do not press any one-touch auto dial buttons before storing to prevent misoperation.

Make sure that the handset is on the cradle and the SP-PHONE/HEADSET indicator light is off.

- 1 Press [FUNCTION/EDIT].


- 2 Press [▶] at "Save speed dial".

- 3 Enter a name, up to 15 characters with the dialing buttons [0] to [9] (p. 28).
 - To move the cursor, press [◀] or [▶]
 - If a name is not required, press [▼] (Next key) and go to step 5.
- 4 Press [▼] (Next key).

- 5 Enter a phone number up to 22 digits.
 - If you enter a wrong number, press [CLEAR] and enter the correct number.
- 6 Press [▼] (Next key).
 - The entered name and phone number are displayed.
- 7 Press [▼] (Next key).


- 8 Press one of the one-touch auto dial buttons ([M1], [M2] or [M3]). (Ex. [M1] is pressed.)


- 9 Press [▶] (Save key).


If the one-touch auto dial button selected manually is occupied, the display on the right will be shown. To overwrite, press [▶] (Yes key). To select other empty one-touch auto dial button, press [◀] (No key), enter an empty one-touch auto dial button, then press [▶] (Save key).
 - A long beep sounds.
 - To continue storing other items, repeat from step 2.
 - The display will return to step 1. To exit the programming mode, press [EXIT] or wait for 60 seconds.

If the display shows "Speed dial list Memory is full" in step 2, press [EXIT] to exit the list. To erase other stored items from the One-Touch Dialer, see below.

- When using the Dial Lock (p. 40) or Call Restriction feature (p. 41), you cannot store a phone number in the one-touch auto dial buttons ([M1] to [M3]).
- You can exit the programming mode any time by pressing [EXIT].
- If a pause is required for dialing, press [PAUSE] where needed. If required, you can also store [FLASH] in a phone number. Pressing [PAUSE] or [FLASH] counts as one digit (p. 36, 38).

To erase a stored number

- 1 Press the required one-touch auto dial button.

- 2 Press [CLEAR].
 - To stop erasing, press [◀] (No key).

- 3 Press [▶] (Yes key) or [CLEAR].
 - A long beep sounds.
 - To exit the programming mode, press [EXIT] or wait for 60 seconds.


→ One-Touch Dialer

Dialing

- 1 Lift the handset or press [SP-PHONE/HEADSET].
 - 2 Press the required one-touch auto dial button ([M1], [M2] or [M3]).
 - The stored number is displayed and dialed.
- OR
- 1 Press the required one-touch auto dial button ([M1], [M2] or [M3]).
 - The stored number is displayed.
 - 2 Lift the handset or press [SP-PHONE/HEADSET].

- When you press continuously the one-touch auto dial buttons, confirm that the first dialing out finished, and then press the next button.

Memory card

Remove the memory card and use it as a name or phone number index for the stored numbers.



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 when your line is busy or if calls are not answered. Callers can leave messages by following the pre-recorded instructions. When voice mail message is recorded, "Voice mail" and "VM" will be displayed.

You will get an access phone number from your telephone company. We recommend storing your access phone number in the memory of Speed Dial List (p. 26) or one-touch auto dial buttons (p. 32).

Listening to Voice Mail Message(s)

After receiving a voice mail message, "VM" icon will flash on the display. To listen to your voice mail, perform the following steps.

- 1 Lift the handset or press [SP-PHONE/HEADSET], and dial an access phone number.

12:34 PM 21:5
Voice mail
10 new calls

- 2 Follow the pre-recorded instructions.

- 3 When finished, place the handset on the cradle.

- "Voice mail" and "VM" icon will go out.

- If "VM" icon still flash after you have listened to your voice mail message(s), press [FUNCTION/EDIT], and then press and hold [CLEAR]. "Voice mail" and "VM" icon will disappear.

FLASH Button

Pressing [FLASH] 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.

Selecting the flash time

The flash time depends on your telephone exchange or host PBX. You can select the following flash times: 90, 100, 110, 250, 300, 400, 600, 700 ms (milliseconds). Your phone comes from the factory set to "600 ms".

Make sure that the handset is on the cradle and the SP-PHONE/HEADSET indicator light is off.

- 1 Press [FUNCTION/EDIT].
- 2 Scroll to "Program" by pressing [▼] or [▲], and press [▶].
- 3 Scroll to "Set flash time" by pressing [▼] or [▲].
- 4 Press [▶].
 - The current setting is displayed
- 5 Select the desired time by pressing [▼] or [▲].

Call restrict
▶ Set flash time
Set dial mode

Flash time
: 600ms ▶ =Save

- 6 Press [▶] (Save key).
 - A long beep sounds.
 - The display will return to step 3. To exit the programming mode, press [EXIT] or wait for 60 seconds.

- You can exit the programming mode any time by pressing [EXIT].
- 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.

Setting the Password

You can change the password for the dial lock and call restriction. The factory preset password is "1111".

To set the password

Make sure that the handset is on the cradle and the SP-PHONE/HEADSET indicator light is off.

- 1 Press [FUNCTION/EDIT].
- 2 Scroll to "Program" by pressing [▼] or [▲], and press [▶].
- 3 Scroll to "Change password" by pressing [▼] or [▲].
- 4 Press [▶].
- 5 Enter the current password.
- 6 Press [▼] (Next key).
 - If the wrong password is entered, 3 beeps will sound. Enter the correct password.

Set clock
▶ Change password
Call restrict

Current password
: ---- ▼=Next

Current password
: 0000 ▼=Next

New password
: ---- ▶=Save

New password
: 1234 ▶=Save

- 7 Enter a new password using a 4-digit number. (Ex. "1234" is entered.)
- 8 Press [▶] (Save key).
 - A long beep sounds.
 - The display will return to step 3. To exit the programming mode, press [EXIT] or wait for 60 seconds.

- You can exit the programming mode any time by pressing [EXIT].

Please write down your password. If you forget your password, consult your nearest Panasonic service center.

Dial Lock

You can prevent others from making a call to any number except dialing by one-touch auto dial buttons. Once you locked the dialing buttons, even emergency numbers cannot be dialed. Only incoming calls are accepted until the dial lock is canceled.

Before using this feature, we recommend storing emergency numbers in the memory of one-touch auto dial buttons (p. 32). Even if the dialing buttons are locked, the numbers stored in these buttons can be dialed.

To set the dial lock

- 1 Press [DIAL LOCK].
 - "O" flashes on the display
- 2 Enter the password (p. 39).
- 3 Press [▶] (Save key).
 - A long beep sounds, and "O" displays.
 - If the wrong password is entered, 3 beeps will sound. Enter the correct password.

Enter password :---- ▶=Save
:O
Enter password :0000 ▶=Save
:O

If the dial buttons are pressed after lifting the handset or pressing [SP-PHONE/HEADSET], "Dial locked" will be displayed.

You can use the following features while the dialing buttons are locked.

- Dialing a number you programmed into the memory of one-touch auto dial buttons (p. 34)
- Selecting the ringer volume (p. 12)
- Adjusting the handset, speakerphone and headset volumes (p. 15, 43)
- Putting a call on hold (p. 16)
- Muting the conversation (p. 36)
- Answering the second call by pressing [FLASH] (p. 37)
- Programming (except storing the One-Touch Dialer)
- Finding an item in the following lists
 - Caller list (p. 18)
 - Speed dial list (p. 29)
 - Redial list (p. 15)

To cancel the dial lock

Follow above steps 1 through 3. In step 3, "O" will go out.

Call Restriction

You can prevent the unit from dialing phone numbers beginning with specified digit(s) (1 digit or 2 digits). Phone numbers with the restricted leading digits cannot be dialed out.

Before using this feature, we recommend storing emergency numbers in the memory of one-touch auto dial buttons (p. 32). Even if the phone numbers are restricted, the numbers stored in these buttons can be dialed.

To set the call restriction

Make sure that the handset is on the cradle and the SP-PHONE/HEADSET indicator light is off.

- 1 Press [FUNCTION/EDIT].
- 2 Scroll to "Program" by pressing [▼] or [▲], and press [▶].
- 3 Scroll to "Call restrict" by pressing [▼] or [▲].
- 4 Press [▶].

Change password ▶Call restrict
:---- Set flash time
Restrict no. ▶=Save
:--

Enter password :---- ▼=Next

Enter password :0000 ▼=Next

Ex: "9" is entered.
Restrict no. : -9 ▶=Save

If you changed the password "1111" (factory set), the display on the right will be shown. Follow below steps 1 and 2.

1. Enter the password (p. 39).
2. Press [▼] (Next key). Go to step 5.
 - If the wrong password is entered, 3 beeps will sound. Enter the correct password.
- 5 Enter the number(s) (1 digit or 2 digits) you want to restrict ([0] to [9]).
 - If the wrong number is entered, press [CLEAR] and enter the correct number.

- 6 Press [▶] (Save key).

- A long beep sounds.
- The display will return to step 3. To exit the programming mode, press [EXIT] or wait for 60 seconds.

→ Special Features

When dialing a phone number with the restricted leading digit(s), the dialed number and "Call restricted" are displayed but not dialed out.

To cancel the call restriction

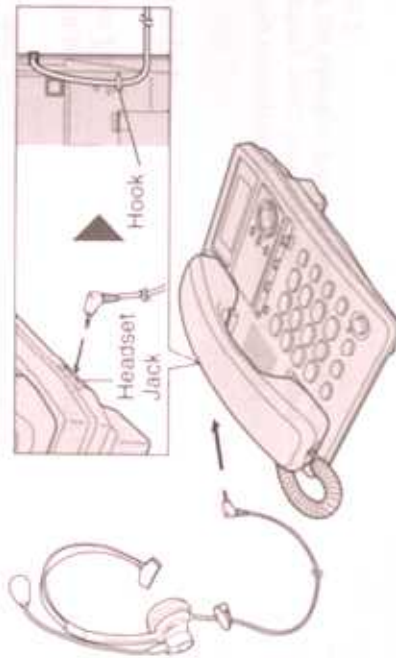
Follow steps 1 through 4 on page 41. In step 5, press [CLEAR] to clear the restricted digits, and press [▶] (Save key).

Optional Headset

Plugging the optional headset into the unit allows a hands-free phone conversation. Please use only a Panasonic KX-TCA89BX.

Connecting the Optional Headset to the Unit

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



If you want to have a normal conversation, disconnect the headset.

Making/Answering Calls

Make sure to install the batteries.

- 1 Press [SP-PHONE/HEADSET] to make or answer a call.
 - The SP-PHONE/HEADSET indicator lights.
 - If you misdial when making a call, press [SP-PHONE/HEADSET] twice and dial again.
- 2 To hang up, press [SP-PHONE/HEADSET].
 - The indicator light goes out.

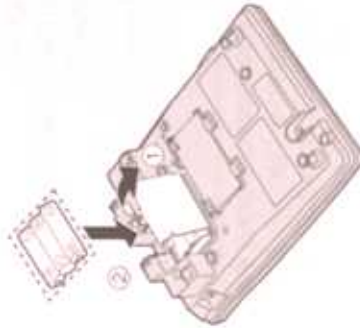
To adjust the headset receiver volume (4 levels):

While using the headset, press VOLUME [^] or [v].

- During a conversation using the headset, you cannot switch the call to the handset by lifting it off the cradle.
- If you disconnect the optional headset during a conversation with the handset on the cradle, the call will be switched to the speakerphone.
- During a conversation using the speakerphone, you can switch the call to the headset by connecting the headset.

Battery Replacement

If "E" flashes, the battery power is low. Install new batteries as soon as possible.



- 1 Disconnect the telephone line cord from the unit.
- 2 Press down in the direction of the arrow and open the cover (1).
- 3 Replace the batteries with new ones using correct polarity (+, -) (2), and close the cover.
- 4 Connect the telephone line cord to the unit.

- After the battery replacement, the information stored in the Caller List and the Redial List will be cleared. Store the desired list in the Speed Dial List.
- The time will be shown as "12:00AM 1.1" or "0:00 1.1" and "E" will flash after replacing the batteries, readjust the time.

Battery Precautions:

The batteries should be used correctly, otherwise the unit may be damaged by battery leakage.

- Do not mix different types of batteries.
- Do not charge, short-circuit, disassemble, heat or dispose of in fire.
- Remove all the batteries when replacing.

Note:

- If you do not install the batteries or if the battery power is low, the time will be shown as "12:00AM 1.1" or "0:00 1.1" and "E" will flash. Readjust the time after the battery replacement.
- Replace all the batteries every six months if using Alkaline batteries, or misoperation may occur. (When you use Manganese batteries, replace all of them every three months.)
- Do not use nickel-cadmium batteries.

Troubleshooting

Problem	Cause and Remedy
The unit does not work.	<ul style="list-style-type: none"> • Check the settings (p. 6-13). • Remove the batteries and reinstall them to reset the unit.
The unit does not ring.	<ul style="list-style-type: none"> • The ringer selector is set to OFF. Set to HIGH or LOW (p. 12).
The display is blank.	<ul style="list-style-type: none"> • Install new batteries (p. 43).
You cannot dial.	<ul style="list-style-type: none"> • Check that the dialing mode selection is correct (p. 11). • Dial lock mode is set. To cancel the mode, see page 40. • The dialed number is restricted. To cancel, see page 42.
The other party suddenly cannot hear your voice during a conversation.	<ul style="list-style-type: none"> • [MUTE] may have been pressed during the conversation. If "⊗" is displayed, press [MUTE].
You cannot program items such as the dialing mode.	<ul style="list-style-type: none"> • Programming is not possible when the handset is off the cradle, the SP-PHONE/HEADSET indicator lights, or when viewing the Caller List and the Speed Dial List. • Do not pause for over 60 seconds while programming.
The unit does not display the caller's phone number.	<ul style="list-style-type: none"> • You need to subscribe to a Caller ID service. • Install or replace the batteries. • Other telephone equipment may be interfering with your phone. Disconnect it and try again. • Telephone line noise may be interfering with the Caller ID information. Consult your telephone company.

Problem	Cause and Remedy
You cannot store a name and phone number in memory.	<ul style="list-style-type: none"> • Programming is not possible when the handset is off the cradle or the SP-PHONE/HEADSET indicator lights. • Check that the batteries are installed in the unit and that the battery power is not low. • Do not pause for over 60 seconds while storing. • Do not enter a phone number more than 22 digits long. • When using the Dial Lock (p. 40) or Call Restriction feature (p. 41), you cannot store a phone number in the one-touch auto dial buttons ([M1] to [M3]). • If "Speed dial list memory is full" is displayed, erase other stored items from the Speed Dial or One-Touch Dialer memory (p. 31, 33).
While programming or searching, the unit starts to ring and stops the program/search.	<ul style="list-style-type: none"> • To answer the call, lift the handset or press [SP-PHONE/HEADSET]. Start again from the beginning after hanging up.
The display exits the Caller List.	<ul style="list-style-type: none"> • Do not pause for over 60 seconds while searching.
You cannot redial by pressing [REDIAL] .	<ul style="list-style-type: none"> • If the last number dialed was more than 32 digits long, the number will not be redialed correctly.
Information stored in the Caller List or the Redial List is erased.	<ul style="list-style-type: none"> • If "⊗" flashes, replace the batteries as soon as possible. Otherwise, information stored in the Caller List or the Redial List may be erased, and a beep may not sound. Store the desired item in the Speed Dial List, if necessary.

Safety Instructions

Take special care to follow the safety suggestions listed below.

Installations Environment

- 1) Do not use this unit near water—for example, near a bathtub, washbowl, sink, etc. Damp basements should also be avoided.
- 2) The unit should be kept away from heat sources such as radiators, kitchen range, etc. It also should not be placed in rooms where the temperature is less than 5°C or greater than 40°C.

Placement

- 1) Do not place heavy objects on top of this unit.
- 2) Care should be taken so that objects do not fall onto, and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration or shock.
- 3) Place the unit on a flat surface.

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: It (they) may explode.
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 the battery(ies) in order not to short the battery(ies) to conductive materials such as rings, bracelets, and keys. The battery(ies) and/or conductor may overheat and cause burns.
5. Do not recharge the battery(ies) provided with or identified for use with this product. The battery(ies) may leak corrosive electrolyte or explode.
6. Do not attempt to rejuvenate the battery(ies) provided with or identified for use with this product by heating. Sudden release of battery electrolyte may occur causing burns or irritation to the eyes or skin.
7. Replace all batteries at the same time. Mixing fresh and discharged batteries could increase internal cell pressure and rupture the discharged batteries. (Applies to products employing more than one separately replaceable primary battery.)
8. When installing batteries observe the proper polarity or direction. Incorrect installation can cause charging, and may result in leakage or explosion. (Applies to products employing more than one separately replaceable primary battery.)
9. Remove the battery(ies) from this product if the product will not be used for a long period of time (several months or more). During this time the battery(ies) could leak in the product.
10. Discard the dead battery(ies) as soon as possible. The dead battery(ies) may leak in the product.
11. Do not store this product, or the battery(ies) provided with or identified for use with this product, in high temperature areas. Batteries that are stored in a freezer or refrigerator for the purpose of extending shelf life should be protected from condensation during storage and defrosting. Batteries should be stabilized at room temperature prior to use after cold storage.

WARNING:

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

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, do not reconnect the unit to the telephone line until the trouble has been repaired. If the known working phone does not operate properly, consult your telephone company.

Specifications

Power Source:	From telephone line
Dimensions (H x W x D):	From 3 AA (LR6, R6, UM-3) batteries
Mass (Weight):	Approx. 95 mm x 167 mm x 224 mm
Dialing Mode:	Approx. 700 g Tone (DTMF)/Pulse
Operating Environment:	5 °C–40 °C

Specifications are subject to change without notice.