

Panasonic

Integrated Telephone System

Operating Instructions

Model No. **KX-TS610MX**

Pulse-or-tone dialing capability

Preparation

Basic Operation

Advanced Operation

Useful Information

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 From 3 AA (LR6, R6, UM-3) batteries
Dimensions (H x W x D):	Approx. 91 mm x 165 mm x 220 mm
Mass (Weight):	Approx. 700 g
Dialing Mode:	Tone (DTMF)/Pulse
Operating Environment:	5°C--40°C

Specifications are subject to change without notice.

Manufactured for Panasonic Communications (Malaysia) Sdn. Bhd.
Senai Malaysia

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P13
PQQX15446ZA FM0206SH1406



KX-TS610MXW

This unit is compatible with Caller ID. To use this feature, you must subscribe to the appropriate service offered by your service provider.

Please read these Operating Instructions before using the unit and save for future reference.

Before Initial Use

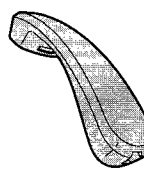
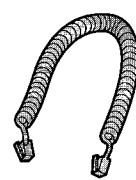

Thank you for purchasing your new Panasonic integrated telephone.

For your future reference

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

Name and address of dealer _____

Accessories (included)

<input type="checkbox"/> Handset (p. 6)		one
<input type="checkbox"/> Handset Cord (p. 6)		one
<input type="checkbox"/> Telephone Line Cord (p. 6)		one

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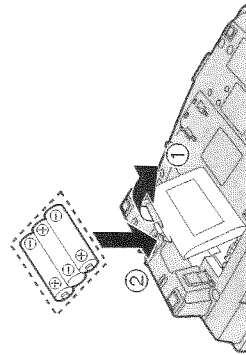
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Useful Information	
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Settings

Installing the Batteries



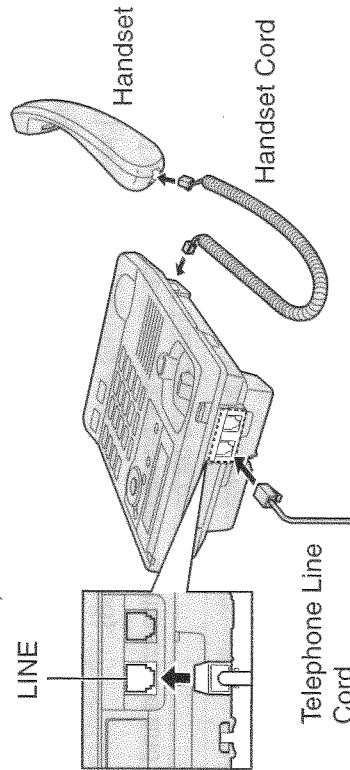
- 1 Press down in the direction of the arrow and open the cover (1).
- 2 Install the batteries in the proper order as shown (2), matching the correct polarity.
- 3 Close the battery cover.

- Batteries are not included with the unit.
- Install three high quality "AA" size Alkaline (LR6) or Manganese (R6, UM-3) batteries. We recommend to use Panasonic batteries.
- Battery life: — about six months when using Alkaline batteries.
— about three months when using Manganese batteries.
- Battery life may depend on usage conditions and ambient temperature.
- Make sure batteries were inserted properly inphase to ensure the functionality of this unit.
- Please refer to page 44 for battery replacement and precautions.

THE UNIT MAY NOT WORK PROPERLY WITHOUT BATTERIES.

Connecting the Handset/Telephone Line Cord

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

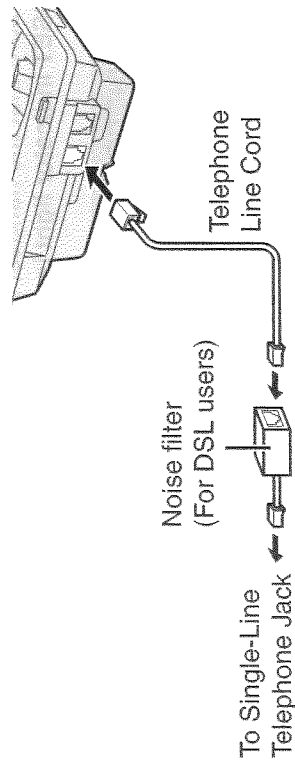


- To Single-Line Telephone Jack
- Use only a Panasonic Handset for the KX-TS600MXW and KX-TS600MXB.
- Use only the telephone line cord included with the unit.
- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.

Preparation

If you subscribe to a DSL service

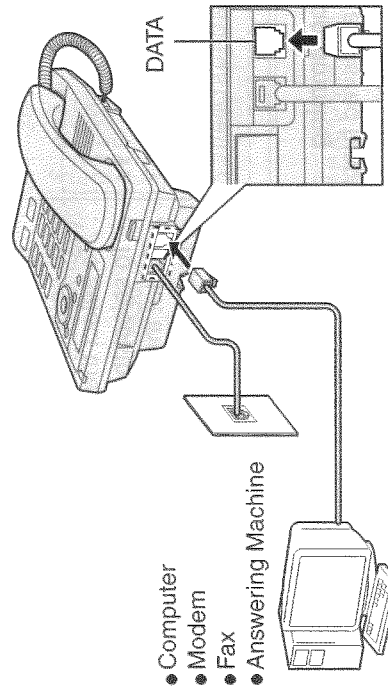
- Please attach a noise filter (contact your DSL provider) to the telephone line between the base unit and the telephone line jack in the event of the following:
 - Noise is heard during conversations.
 - Caller ID feature (p. 18) does not function properly.



Connecting a Communication Device

If you want to 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 phonebook ?
 Save M1, M2, M3 ?
 Program ?
 Set clock ?

..... To store names and phone numbers in memory (p. 26, 32).
 To set the time and date (p. 9).

Scroll to "Program ?" by pressing [▼] or [▲], and press [OK] (Yes key).

<Function menu>*

Change password?

Call restrict ?

Set flash time ?

Set dial mode ?

LCD contrast ?

Set hold music ?

Set area code ?

Time adjustment?

..... To change the password for the dial lock and call restriction (p. 38).
 To set the call restriction (p. 40).
 To set the flash time (p. 37).
 To select the dialing mode (p. 11).
 To select the LCD contrast (p. 12).
 To set the music during hold (p. 36).
 To set the area code (p. 12).
 To set the auto time adjustment (p. 14).

During programming

* To select a desired function item, scroll through the items by pressing [▼] or [▲]. Then press [OK] to go to the next step.

The right arrow [▶] is also used to select or confirm the desired item.

- "-----" indicates the end of the function menu.
- You can exit the programming mode any time by pressing [EXIT].
- If you do not press any valid buttons for 60 seconds, the unit will exit the programming mode.

Time and Date

You can select AM/PM or 24-hour clock through programming. **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 "Set clock ?" by pressing [▼] or [▲].

Set clock ?
 [OK] = Yes

3 Press [OK] (Yes key).

12:00AM 31.12
 2005
 [OK] = Next

4 Press [OK] (Next key).
 Enter the current year.
 (Example: To set 2006, enter "06".)
 • You can set the year 2000 to 2099.

Enter year
 2006
 [OK] = Next

5 Press [OK] (Next key).

Enter time
 12:00
 [OK] = Next

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

Enter time
 09:30
 [OK] = Next

- For AM/PM setting: Enter numbers between 0100 and 1259.
- For 24-hour clock: Enter numbers between 0000 and 2359.

7 Press [OK] (Next key).

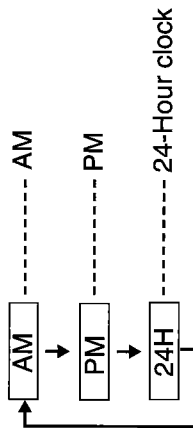
= AM / PM / 24H
 AM
 [OK] = Next

- If numbers between 0000 and 0059, or 1300 and 2359 are entered, the time will automatically be set using the 24-hour clock. Skip steps 8 and 9, and go to step 10.

(Continued →)

- 8** Press [#] to select "AM", "PM" or 24-hour clock.
(Example: You select "PM".)

Display **Option**



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

- 9** Press [OK] (Next key).

Enter day.month
31.12
▲ [OK] = Save

- 10** Enter the current day and month using a 4-digit number.
(Example: To set Dec. 27, enter "2712".)

Enter day.month
27.12
▲ [OK] = Save

- 11** Press [OK] (Save key).

- A long beep sounds.
- The clock starts working.
- The display will return to step 2. 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 4 through 10).
- 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 31.12" or "0:00 31.12", and "⊕" will flash. Replace the batteries then adjust the time and date.

For Caller ID service users (p. 18)

- 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 and when the Time Adjustment is set to ON (p. 14). 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 default setting is Tone.

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 [▲]. Press [OK] (Yes key).

- 3** Scroll to "Set dial mode ?" by pressing [▼] or [▲].

Set dial mode ?
▲▼ [OK] = Yes

- 4** Press [OK] (Yes key).

Dial mode
: Tone ▲▼ [OK] = Save

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

- 6** Press [OK] (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].

LCD Contrast

You can select the LCD contrast level from 1 to 4 by programming. Your phone default setting is 2.

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 [▲]. Press [OK] (Yes key).
- 3 Scroll to "LCD contrast ?" by pressing [▼] or [▲].
- 4 Press [OK] (Yes key).
 - The current setting is displayed.

LCD contrast ?
▲▼ [OK] = Yes

- 5 Select the desired contrast by pressing [▼] or [▲].

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

- 6 Press [OK] (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].

Storing Your Area Code

We recommend you program your area code before using the Caller ID feature. Incoming calls from the same area will be recorded in the Caller List without the area code. You do not have to remove it before calling back the caller.

- To store the caller's information in the Phonebook, you may need to remove the area code because same area code would be appeared automatically while storing.

To store your area code

- 1 Press [FUNCTION/EDIT].
- 2 Scroll to "Program ?" by pressing [▼] or [▲]. Press [OK] (Yes key).

- 3 Scroll to "Set area code ?" by pressing [▼] or [▲].

Set area code ?
▲▼ [OK] = Yes

- 4 Press [OK] (Yes key).

Area code
: [OK] = Save

- 5 Enter your area code of up to 8 digits. (Example: "02" is entered.)

- If the wrong number is entered, press [ERASE] and enter the correct number.

- 6 Press [OK] (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.

Area code
: 02 [OK] = Save

To erase your area code

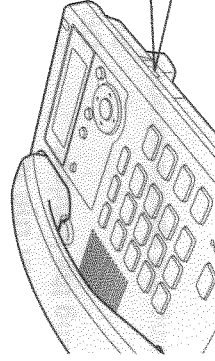
- 1 Press [ERASE] in step 5.

- 2 Press [OK] (Save key).

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

Ringer Volume

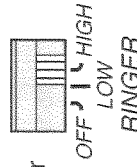
You can select the ringer volume to HIGH, LOW or OFF. Your phone default setting is HIGH.



RINGER Selector:

Set to HIGH, LOW or OFF.

- When set to OFF, the unit will not ring.




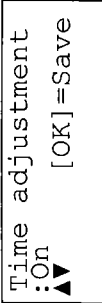
→ Settings

Time Adjustment (Caller ID subscribers only)

Using this feature, the unit's date and time setting will be automatically adjusted when caller information is received.

You can set the auto time adjustment by programming. Your phone default setting is OFF.

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 [▲]. Press [OK] (Yes key).
- 3 Scroll to "Time adjustment?" by pressing [▼] or [▲].

- 4 Press [OK] (Yes key).
- 5 Select "On" or "Off" by pressing [▼] or [▲].
(Example: "On" is selected.)


- 6 Press [OK] (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.
 - To use this feature, set the date and time in advance (p. 9).

Making Calls

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

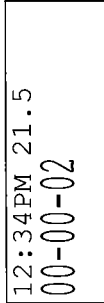
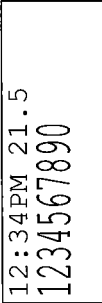
Using the speakerphone

- 1 Press [SP-PHONE/HEADSET], then dial a phone number.

OR

Dial a phone number, then press [SP-PHONE/HEADSET].

- The indicator lights.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call.
- If you have misdialled, hang up and start again from step 1.



- 2 When the other party answers, talk into the MIC (microphone).
- 3 To hang up, press [SP-PHONE/HEADSET].
 - The indicator light goes out.

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 [▼] 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].

OR

Press [REDIAL] → Lift the handset.

Using the speakerphone: Press [SP-PHONE/HEADSET] →

press [REDIAL].

OR

Press [REDIAL] → press [SP-PHONE/HEADSET].

→ Making Calls

Automatic Redial:

When using the speakerphone, the unit redials the last dialed number up to 15 times within a 10-minute period if the line is busy. During Auto 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 "●" are displayed.
 - When the number dialed has been stored in the Phonebook, the name is also displayed.
2. Scroll to the desired number by pressing **[▼]** or **[▲]**.
 - You can also scroll through the list by pressing **[REDIAL]**.
 - 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 **[ERASE]**.
 - If "No items stored" is displayed, the list is empty.

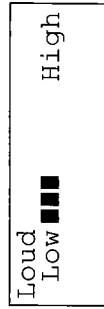
To adjust the handset volume (4 levels) or the speaker volume (8 levels) while talking

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

Example: Handset volume level: 2



Example: Speaker volume level: 3



"■■■" shows one level.

"■" shows one level.

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

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, both parties will hear a hold music. To cancel the hold music, see page 36.

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 through 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/MESSAGE 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. 18).

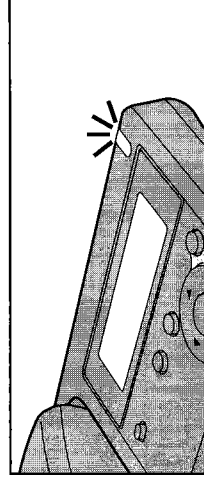
Using the speakerphone

- 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. 13), the unit will not ring.
 - The RINGER/MESSAGE 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.

RINGER/MESSAGE Indicator for PBX User

RINGER/MESSAGE indicator will light up when you receive a message from PBX*.

Please refer to your PBX features (user manual) for details.



* This feature is only available for PBX system with message waiting indicator feature.

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 incoming calls, including the time and date received, 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 information is deleted.

Using the list, you can automatically call back a caller. You can store the callers' numbers from the Caller List in the Phonebook memory or the Direct Dial 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.



The RINGER/MESSAGE 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 Phonebook or Direct Dial memory, the caller's name will be displayed.

- To use this function, names and phone numbers must be stored in the Phonebook (p. 22) or Direct Dial memory (p. 23).

• 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 missed calls, the number of missed calls will be displayed as shown, while the unit is not in use.

12:34AM 21.5
10 missed calls

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 through callers, press [▼] or [▲].
- 3 To exit the Caller List, press [EXIT].

Caller list
10 missed calls
▲▼

- If "No items stored" is displayed in step 1, the Caller List is empty.

Example: When you search from the most recent call:

Press [▼] or [▲] to enter the list.

1114447777
11:50AM 24.11

Press [▼].

JACK SMITH
1234567890
10:50AM 23.11

Press [▼].

456789012345678→
10:00AM 22.11

Press [▼].

To return to the previous caller, press [▲].

To exit the Caller List, press [EXIT].

- * If you receive a call from one of the same phone numbers stored in the Phonebook or the Direct Dial memory, the caller's name will be displayed (Private name display).

Press [◀] or [▶].

90123
10:00AM 22.11

Press [▼].

- ** If an arrow (→) or (←) is displayed after the number, the whole phone number has not been 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:

✓ 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

12:34PM 25.11
1234567890

12:34PM 25.11
00-00-02

- In some cases, you may have to edit the number before dialing (p. 21).
- If a phone number is not displayed in the caller information, you cannot call back that caller using this feature.

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 by pressing dial buttons.
 - To erase the number**
Press [ERASE] to erase the number.
 - To move the cursor, press [◀] or [▶].
 - You may also delete a number by pressing [#].
- 4 After editing, you can continue with calling back or storing procedures.
To call back, lift the handset or press [SP-PHONE/HEADSET] (p. 20).
To store the number in the Phonebook memory, follow steps 4 to 5 on page 22 to complete the operation.
To store the number in the Direct Dial memory, follow steps 4 to 6 on pages 23 and 24 to complete the operation.

1234567890
10:50AM 23.11

01234567890
▲▼ [OK] =Next

- To exit the Caller List during editing, press [EXIT] or wait for 60 seconds.
- The number edited in step 3 will not be maintained in the Caller List.

Storing Caller List Information in the Phonebook

You can store numbers that are in the Caller List to the Phonebook. **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 Phonebook by pressing [▼] or [▲].

1234567890
 10:50AM 23.11
- 3 Press [FUNCTION/EDIT].
 - If the number requires editing, see page 21.

1234567890
 ▲▼ [OK] =Next
- 4 Press [OK] (Next key).
 - a) If a name is not required, press [OK] (Next key).
 - b) If a name is required, enter the name (p. 27). When finished, press [OK] (Next key).

Enter name
 [OK] =Next

Enter name
 JACK SMITH
 ▲ [OK] =Next
- 5 Press [OK] (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.

>Save phonebook
 Save M1, M2, M3
 ▼ [OK] =Save

JACK SMITH
 1234567890

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

Storing Caller List Information in the Direct Dial Memory

You can store numbers that are in the Caller List in the Direct Dial memory ([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 Direct Dial memory by pressing [▼] or [▲].

1234567890
 10:50AM 23.11
- 3 Press [FUNCTION/EDIT].
 - If the number requires editing, see page 21.

1234567890
 ▲▼ [OK] =Next
- 4 Press [OK] (Next key).
 - a) If a name is not required, press [OK] (Next key).
 - b) If a name is required, enter the name (p. 27). When finished, press [OK] (Next key).

Enter name
 [OK] =Next

Enter name
 JACK SMITH
 ▲ [OK] =Next
- 5 Press [▼].
 - >Save phonebook
 >Save M1, M2, M3
 ▲ M1, M2, M3 =Save
- 6 Press one of the Direct Dial button [M1], [M2] or [M3] (Example: [M1] is pressed).

JACK SMITH
 1234567890

→ Using the Caller List

If the Direct Dial button selected is occupied, the display on the right will be shown.

To overwrite, press [OK] (Yes key).

To select another empty Direct Dial memory, press [▲] (No key), press an empty Direct Dial button by pressing [M1], [M2] or [M3] (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.

- To erase other stored items from the Direct Dial memory, see page 33.
- To cancel during programming, press [EXIT]. Start again from step 1.
- You cannot store Caller List information in the Direct Dial memory if a phone number is not displayed.

M1 is occupied
Overwrite?
[▲]=No [OK]=Yes

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 [ERASE].
 - 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.

1234567890
10:50AM 23.11 ✓

Erased

To erase all entries in the Caller List

- 1 Press [▼] or [▲] to enter the Caller List.
- 2 Press [ERASE].
- 3 Press [OK] (Yes key).
 - A long beep sounds and all entries are erased.
 - The unit will exit the Caller List.

Caller list
10 missed calls
▲▼

All erase ?
[▲]=No [OK]=Yes

Storing Names and Phone Numbers in Phonebook

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 [OK] (Yes key).
- 3 Enter a name, up to 15 characters using the dialing buttons [0] to [9], [*] and [#] (p. 27).
 - To move the cursor, press [◀] or [▶].
 - If a name is not required, go to step 4.
- 4 Press [OK] (Next key).
- 5 Enter a phone number up to 32 digits.
 - If you have entered a wrong number, press [ERASE] and enter the correct number.
 - If you want to change the storing name, press [▲] to reach the desired display.
- 6 Press [OK] (Save key).
 - A long beep sounds.
 - The entered name and phone number are displayed.
 - The display will return to step 1. To exit the programming mode, press [EXIT] or wait for 60 seconds.

Save phonebook?
 ▲▼ [OK] = Yes

Phonebook
 10 items

Enter name
 Tom Jones
 ▼ [OK] = Next

Enter phone No.
 ▲▼

0987654321
 ▲▼ [OK] = Save

Tom Jones
 0987654321

- If the display shows "Phonebook full" in step 2, press [EXIT] to exit the list. To erase other stored items from the Phonebook, 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. 35, 37).

To store an emergency number (#):

Emergency numbers are numbers stored in the Phonebook that can be dialed even when the Dial Lock (p. 39) or Call Restriction (p. 40) is set to ON. To store a number as an emergency number, add # at the beginning of the name in step 3.

Selecting characters to enter names

The dialing buttons ([0] to [9], [*] and [#]) 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
[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 [ERASE] to delete and enter the correct character. Each time you press [ERASE], a character is erased.

For example, to enter "Tom Jones":

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

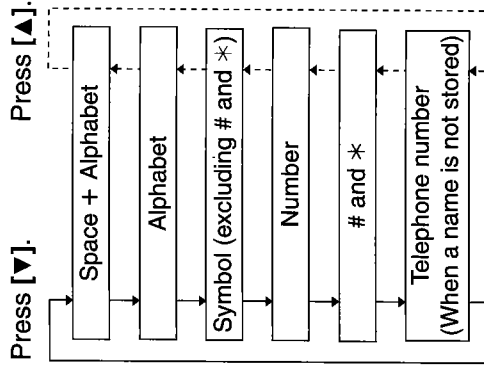
Dialing from the Phonebook

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

1 Press [◀] or [▶] to enter the Phonebook.



2 Scroll to the desired item by using [▼] or [▲].



- All Phonebook items are stored in order shown on the right.
- Item with # at the beginning will be displayed with first priority if Dial Lock or Call Restriction is set to ON.

To search for a name by initial:

1. Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index table on page 29)
Example: To find "Frank", press [3] repeatedly until the first item under "F" is displayed.
2. Press [▼] repeatedly until the name is displayed.

3 Lift the handset or press [SP-PHONE/HEADSET].

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

- If "No items stored" is displayed in step 1, the Phonebook is empty.
- You can exit the Phonebook any time by pressing [EXIT].
- 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 [OK] (Send key).

Index table

Keys	Index	Keys	Index
[1]	Symbols, 1, No name	[7]	P, Q, R, S, 7
[2]	A, B, C, 2	[8]	T, U, V, 8
[3]	D, E, F, 3	[9]	W, X, Y, Z, 9
[4]	G, H, I, 4	[*]	*
[5]	J, K, L, 5	[0]	Space, 0
[6]	M, N, O, 6	[#]	#

Chain Dial

You can dial a combination of Phonebook or manual key pad entries while making a call. This feature can be used, for example, to first automatically dial a calling card access number that you have stored in the Phonebook, then manually or automatically dial your PIN and then automatically dial the destination number from the Phonebook.

Example: Using a long distance calling card.

- To prevent misdialing, we recommend you add pauses where needed when storing numbers. For example, add pauses after a calling card access number and your PIN when storing in the Phonebook (p. 35).
1. Search and dial from Phonebook: 1800123456 (Calling card access number)
 - The Voice guidance may be announced.
 2. Search and dial from Phonebook: 1234 (Calling card PIN)
 3. Search and dial from Phonebook: 15550123456 (Destination number)

1 While you are on a call;
Press [◀] or [▶].

2 Search for the desired item by pressing [▼] or [▲].
• To search for an item by initial, see page 28.

3 Press [OK] (Send key).

- The phone number is dialed.
- If required, repeat steps 1 to 3 for any remaining number.
- When storing a calling card access number and your PIN in the Phonebook as one item, press [PAUSE] to add pauses after the number and PIN as necessary (p. 35).
- If you have rotary or pulse service, you need to press [*] before pressing [◀] or [▶] in step 1 to change the dialing mode temporarily to tone.

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 Phonebook.

2 Scroll to the Phonebook item you want to change by using [▼] or [▲].

- To search for the item by initial, see page 28.

Jane
1234567

3 Press [FUNCTION/EDIT].

- If you do not want to change the name, go to step 5.

Enter name
Jane [OK] =Next

4 Edit the name using the dialing buttons (p. 27).

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

5 Press [OK] (Next key).

1234567
[OK] =Save

6 Insert the required numbers.

- If you have entered a wrong number, press [ERASE] and enter the correct number.

8901234567
[OK] =Save

7 Press [OK] (Save key).

- A long beep sounds.
- To exit the Phonebook, press [EXIT] or wait for 60 seconds.

Jane
8901234567

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 Phonebook.

2 Scroll the Phonebook item you want to erase by using [▼] or [▲].

- To search for the item by initial, see page 28.

3 Press [ERASE].

- To stop erasing, press [▲] (No key).

Erase ?
[▲] =No [OK] =Yes

4 Press [OK] (Yes key).

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

Erased

- Item with # at the beginning cannot be deleted when the Dial Lock or Call Restriction is set to ON.

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

Storing Names and Phone Numbers in Memory

You can store up to 3 names and phone numbers in the Direct Dial memory.

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 the "Save M1, M2, M3 ?" by pressing [▼] or [▲].
- 3 Press [OK] (Yes key).
- 4 Enter a name, up to 15 characters using the dialing buttons [0] to [9], [*] and [#] (p. 27).
 - To move the cursor, press [◀] or [▶].
 - If a name is not required, go to step 5.

Save M1, M2, M3 ?
▲▼ [OK] = Yes

Enter name
John White
▼ [OK] = Next

Enter phone No.
▲

1234567890
▲ M1, M2, M3 = Save

John White
1234567890

- 5 Press [OK] (Next key).
- 6 Enter a phone number up to 32 digits.
 - If you enter a wrong number, press [ERASE] and enter the correct number.
- 7 Press one of the Direct Dial button [M1], [M2] or [M3] (Save key). (Example: [M1] is pressed).
 - The entered name and phone number are displayed.
 - After a few seconds, the display will return to step 2. To exit the programming mode, press [EXIT] or wait for 60 seconds.

If the Direct Dial button selected is occupied, the display on the right will be shown.

To overwrite, press [OK] (Yes key).

To select another empty Direct Dial memory, press [▲] (No key), then press an empty Direct Dial button ([M1], [M2] or [M3]).

- A long beep sounds.
- To continue storing other items, repeat from step 2.
- To exit the programming mode, press [EXIT] or wait for 60 seconds.
- To erase other stored items from the Direct Dial memory, see below.
- When using the Dial Lock (p. 39) or Call Restriction feature (p. 40), you cannot store a phone number in the Direct Dial memory ([M1], [M2] or [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. 35, 37).

To erase a stored number

- 1 Press the required Direct Dial button ([M1], [M2] or [M3]).
- 2 Press [ERASE].
 - To cancel erasing, press [▲] (No key).
- 3 Press [OK] (Yes key).
 - A long beep sounds.

Erase ?
[▲] = No [OK] = Yes

Erased

Memory Empty

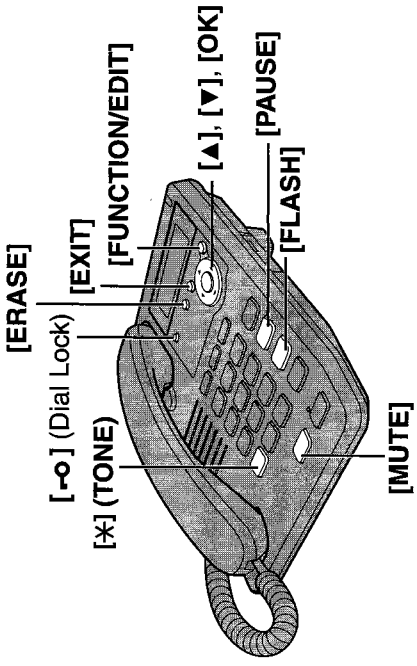
- To exit the programming mode, press [EXIT] or wait for 60 seconds.

M1 is occupied
Overwrite ?
[▲] = No [OK] = Yes



Dialing

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



Temporary Tone Dialing (For Rotary or Pulse Service Users)

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

- 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 PBX Line/Long Distance Calls)

We recommend you press [PAUSE] if a pause is required for dialing with a PBX or to make a long distance call.

Example: Line access number [9] (PBX)

[9] → [PAUSE] → Phone number

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

For Call Waiting Service Users

Press [FLASH] if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press [FLASH] again.
- If this function does not operate properly, consult your telephone company for details.

Visual Call Waiting Caller ID Feature

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

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

KEVIN JOHNSON
 1234567
CALL

Muting Your Conversation

Press [MUTE] while talking. "M" is displayed.

- The other party cannot hear you but you can hear them.
- To resume the conversation, press [MUTE] again.

Setting Hold Music to ON/OFF

You can set to music play during hold as follows. Your phone default setting is ON.

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 [OK] (Yes key).
- 3 Scroll to "Set hold music ?" by pressing [▼] or [▲].
- 4 Press [OK] (Yes key).
- 5 Select "off" or "On" by pressing [▼] or [▲].
- 6 Press [OK] (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.

Set hold music ?
 ▲▼ [OK]=Yes

Hold music
 : On
 ▲▼ [OK]=Save

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: "80, 90, 100, 110, 160, 200, 250, 300, 400, 600, 700, 900 ms (milliseconds)". Your phone default setting is "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 [OK] (Yes key).
- 3 Scroll to "Set flash time ?" by pressing [▼] or [▲].
- 4 Press [OK] (Yes key).
- 5 Select the desired time by pressing [▼] or [▲].
- 6 Press [OK] (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.

Set flash time ?
 ▲▼ [OK]=Yes

Flash time
 : 600ms [OK]=Save

- 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.
- If there is no battery, Flash function may not operate properly.

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 [OK] (Yes key).
- 3 Scroll to "Change password?" by pressing [▼] or [▲].
- 4 Press [OK] (Yes key).
- 5 Enter the current password.
- 6 Press [OK] (Next key).
 - If the wrong password is entered, 3 beeps will sound. Enter the correct password.
- 7 Enter a new password using a 4-digit number. (Example: "1234" is entered.)

Change password?
:▲▼ [OK]=Yes

Current password
:----- [OK]=Next

Current password
:***** [OK]=Next

New password
:----- [OK]=Save

New password
:1234 [OK]=Save

- 8 Press [OK] (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

The Dial Lock feature allows you to prevent others from making calls. To use this, set the feature ON. Your phone comes from factory is set to OFF.

Before using the Dial Lock or Call Restriction feature (p. 40), we recommend storing emergency numbers in the memory of Direct Dial buttons (p. 32) and Phonebook (p. 26) as emergency numbers (#). Even if the dialing buttons are locked, the numbers stored in these buttons can be dialed.

To set the dial lock

- 1 Press [-O].
 - "-O" flashes on the display.
- 2 Enter the password (p. 38).
- 3 Press [OK] (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
:----- [OK]=Save
>O

Enter password
:***** [OK]=Save
>O

If the dial buttons are pressed before/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 Direct Dial buttons (p. 34) and emergency numbers (#) (p. 26)
- Selecting the ringer volume (p. 13)
- Adjusting the handset, speakerphone and headset volumes (p. 16, 42)
- Putting a call on hold (p. 16)
- Muting the conversation (p. 36)
- Answering the second call by pressing [FLASH] (p. 37)
- Programming (except storing/editing the Direct Dial memory and emergency numbers (#)).
 - Finding an item in the following lists
 - Caller list (p. 19)
 - Phonebook (p. 26)
 - Redial list (p. 16)

To cancel the dial lock

Follow above steps 1 through 3. In step 3, "-O" will disappear.

→ Special Features

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, except the emergency numbers stored in the Phonebook and Direct Dial memory [M1], [M2] or [M3].

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 [OK] (Yes key).
- 3 Scroll to "Call restrict ?" by pressing [▼] or [▲].
- 4 Press [OK] (Yes key).

Call restrict ?
▲▼ [OK] = Yes

Restrict No.
:-- [OK] = Save

Enter password
:---- [OK] = Next

Enter password
:***** [OK] = Next

Example: "9" is entered.
Restrict No.
:9- [OK] = 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. 38).
2. Press [OK] (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 [ERASE] and enter the correct number.

- 6 Press [OK] (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.

When dialing a phone number with the restricted leading digit(s), "CALL RESTRICTED" will be displayed but not dialed out.

To cancel the call restriction

Follow steps 1 through 4 on page 40. In step 5, press [ERASE] to clear the restricted digits, and press [OK] (Save key).

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 messages are recorded, "Voice mail" and "☒" will be displayed.

Listening to Voice Mail Message(s)

After receiving a voice mail message, "☒" 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.

- You will get an access phone number from your telephone company.

- 2 Follow the pre-recorded instructions.

- 3 When finished, place the handset on the cradle or press [SP-PHONE/HEADSET].

- "Voice mail" and "☒" will disappear.

- If "☒" is still flashing after you have listened to your voice mail message(s), press [FUNCTION/EDIT], and then press and hold [ERASE] and "☒" will disappear.

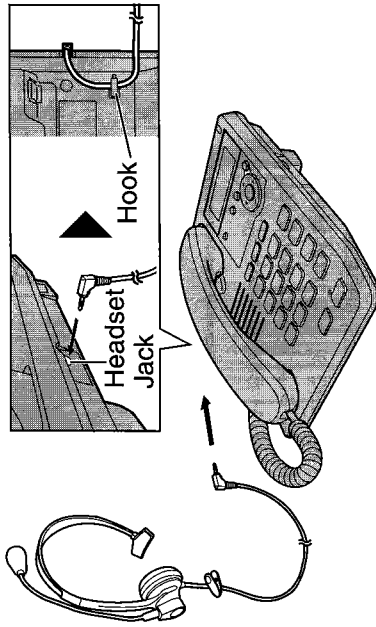
12:34PM 15.12
Voice mail
10 missed calls ☒

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 without the hands-free feature, disconnect the headset.

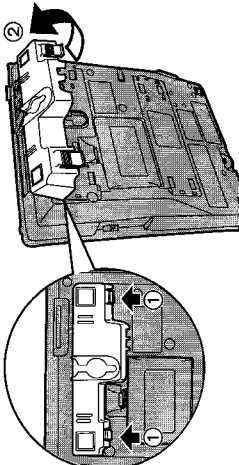
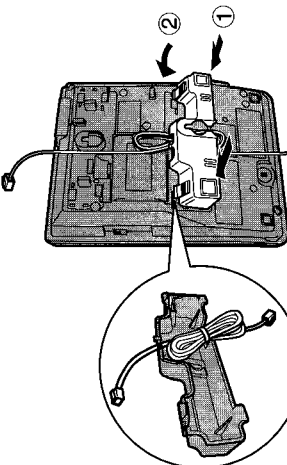
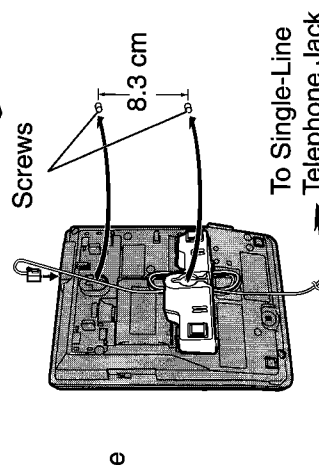
Making/Answering Calls

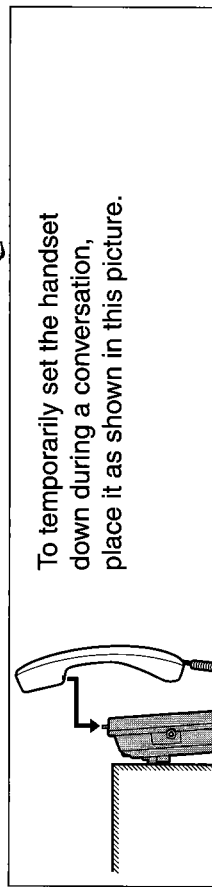
Make sure to install the batteries.

- 1 Press **[SP-PHONE/HEADSET]** to make or answer a call.
 - OR**
 - Dial the number and press **[SP-PHONE/HEADSET]** to make a call.
 - The **SP-PHONE/HEADSET** indicator lights.
 - If you misdial during pre-dialing, press **[ERASE]** and enter the correct number. Then press **[SP-PHONE/HEADSET]** for dialing.
 - 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 **[▼]**.
- During a conversation using the headset, you cannot switch the call to using the handset by simply 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.

Wall Mounting

This unit can be mounted on a wall.

- 1 Press the tabs in the direction of the arrows (①), then remove the wall mounting adaptor (②).
 
- 2 Tuck the telephone line cord inside the wall mounting adaptor, and push it in the direction of the arrow (①) and (②).
 - "UP WALL" should be facing upward.
- 3 Drive screws (not included) into the wall using the wall template below. Connect the telephone line cord. Mount the unit, and slide it down.
 



To temporarily set the handset down during a conversation, place it as shown in this picture.

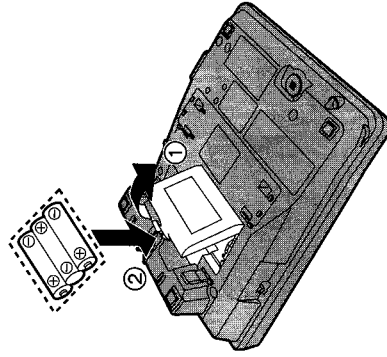
Wall Template



Battery Replacement

If "□" flashes, the battery power is low. Install new batteries as soon as possible. If batteries are not replaced even after the "□" is displayed, the unit may not work properly.

- Store the desired items in the Phonebook or Direct Dial memory, because after the battery replacement, the information stored in the Redial List will be cleared.



- 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 matching the correct polarity (+, -) (2), and close the cover.
- 4 Connect the telephone line cord to the unit.

- The time will be shown as "12:00AM 31.12" or "0:00 31.12" and "Ⓜ" will flash after replacing the batteries. Readjust the time and date.

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 the batteries 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 31.12" or "0:00 31.12" and "Ⓜ" 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. 6-14). • 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. 13).
The display is blank.	<ul style="list-style-type: none"> • Install new batteries (p. 44).
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 39. • The dialed number is restricted. To cancel, see page 41.
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] (p. 36).
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 Phonebook. • 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. • Another 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
<p>You cannot store a name and phone number in memory.</p>	<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 32 digits long. • When using the Dial Lock (p. 39) or Call Restriction feature (p. 40), you cannot store a phone number in the Direct Dial memory ([M1], [M2] or [M3]) and emergency numbers (#). • If "Phonebook full" is displayed, erase other stored items from the Phonebook memory (p. 31).
<p>While programming or searching, the unit starts to ring and stops the program/search.</p>	<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.
<p>The display exits the Caller List.</p>	<ul style="list-style-type: none"> • Do not pause for over 60 seconds while searching.
<p>You cannot redial by pressing [REDIAL].</p>	<ul style="list-style-type: none"> • If the last number dialed was more than 32 digits long, the number will not be redialed correctly.
<p>Information stored in the Redial List is erased.</p>	<ul style="list-style-type: none"> • If "☐" flashes, replace the batteries as soon as possible. Otherwise, information stored in the Redial List may be erased, and beep may not sound. Store the desired item in the Phonebook or Direct Dial memory, if necessary.

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.