

Panasonic

Integrated Telephone System

Operating Instructions

Model No. **KX-TS600W**
KX-TS600B

Pulse-or-tone dialing capability



KX-TS600W

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.

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

For assistance, please visit <http://www.panasonic.com/phonehelp>

Preparation

Basic Operation

Advanced Operation

Useful Information

Before Initial Use

Please read **IMPORTANT SAFETY INSTRUCTIONS** on page 47 before use. Read and understand all instructions.

Thank you for purchasing your new Panasonic integrated telephone.

Attach your purchase receipt here.

For your future reference

Serial No.

(found on the bottom of the unit)

Date of purchase

Name and address of dealer

Accessories (included)

To order replacement accessories, call 1-800-332-5368.

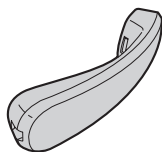
TTY users (hearing or speech impaired user) can call 1-866-605-1277.

☐ Handset (p. 6)

Order No.

PQJXF0101Z (White)

PQJXF0102Z (Black)



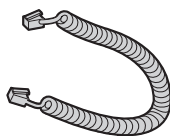
one

☐ Handset Cord (p. 6)

Order No.

PQJA212M (White)

PQJA212N (Black)

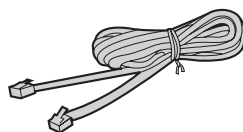


one

☐ Telephone Line
Cord (p. 6)

Order No.

PQJA10075Z



one

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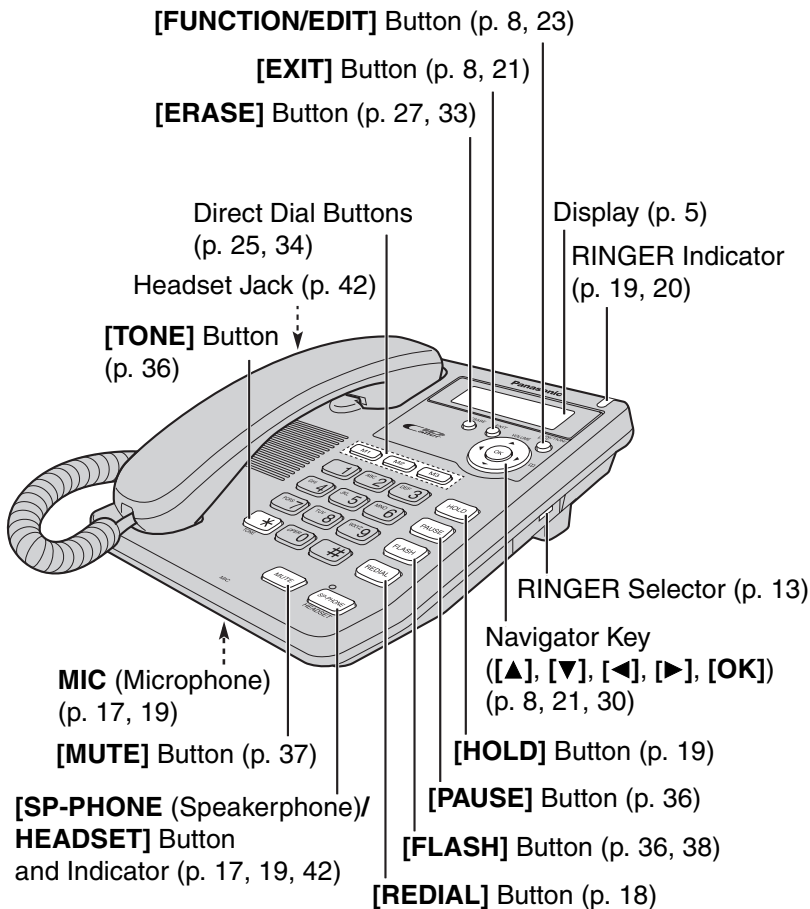
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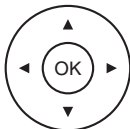
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Location of Controls



How to use the Navigator key and [OK] button

This key has five active areas that are indicated by arrows and [OK].



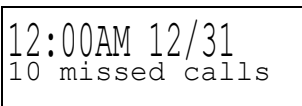
- Pressing the up and down arrows allows you to enter the Caller List and scroll through the function menu.
- Pressing the right and left arrows allows you to enter the Phonebook and move the cursor when entering items. The right arrow also use to select the desired item.
- The [OK] button is used to select and confirm desired item.

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

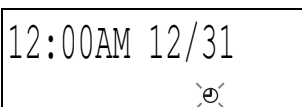
Display



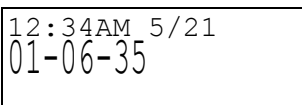
(This display shows all of the possible configurations.)



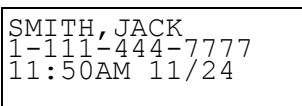
While the unit is not in use, the display shows the current time and date, and the number of missed calls.



If the display continuously shows "12:00AM 12/31" or "0:00 12/31" and "0" flashes, the clock needs adjustment (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 name and number,
- the time and date of the call (Ex. Nov. 24, 11:50 AM).

:The unit enters in the Phonebook.

:The unit plays music during the hold for a caller.

:The second call has been received while talking (p. 37).

:[MUTE] was pressed during a conversation (p. 37).

:[REDIAL] was pressed while the handset is on the cradle and SP-PHONE/HEADSET indicator is off (p. 18).

:The voice mail message(s) is/are recorded (p. 41).

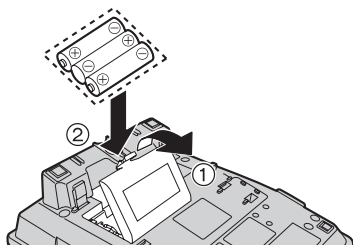
:This display flashes, when the battery power is low. To replace the batteries, see page 44.

P :[PAUSE] was pressed while dialing or storing phone numbers.

F :[FLASH] was pressed while storing phone numbers.

Settings

Installing the Batteries



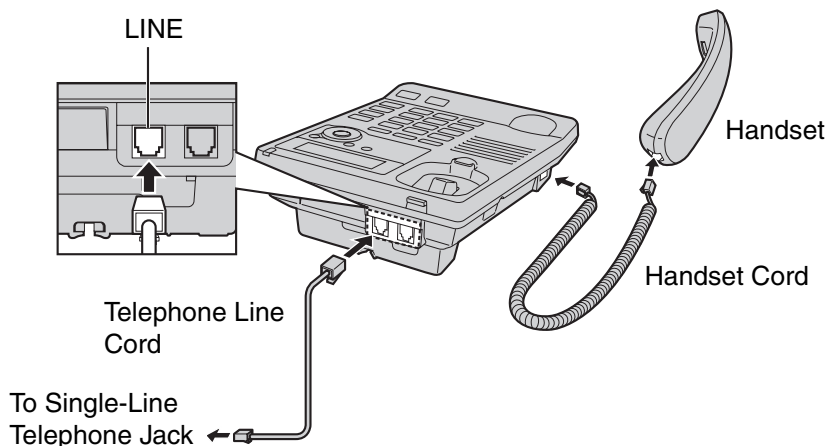
- 1 Press down in the direction of the arrow and open the cover (①).
- 2 Install the batteries in the proper order as shown (②), matching the correct polarity.
- 3 Close the battery cover.

- 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 Panasonic 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.
- Make sure batteries were inserted properly in phase to ensure the functionality of this unit.
- Please refer page 44 for the battery replacement and precautions.

THE UNIT MAY NOT WORK PROPERLY WITHOUT BATTERIES.

Connecting the Handset/Telephone Line Cord

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

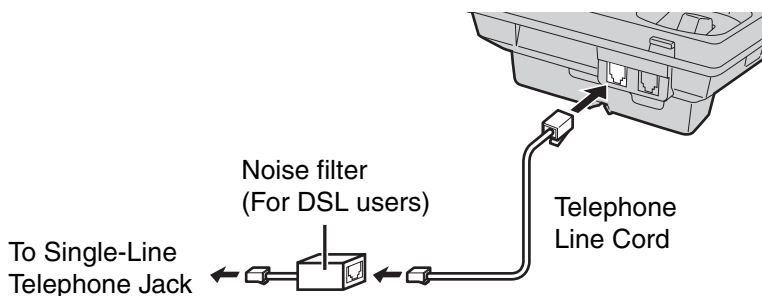


- Use only a Panasonic Handset for the KX-TS600W or KX-TS600B.
- Use only a telephone line cord included in the unit.
- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.



If you subscribe to a DSL service

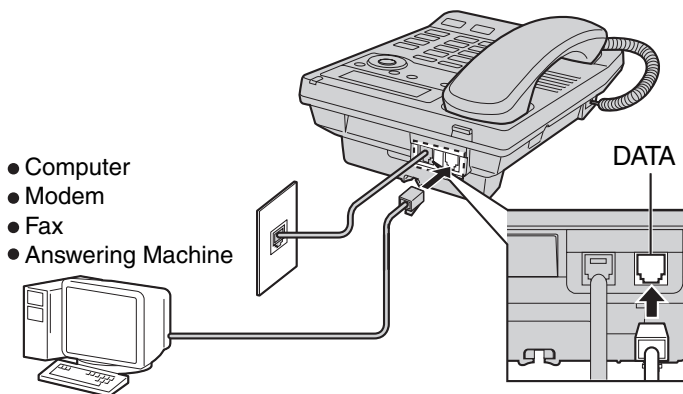
- Please attach a noise filter (contact your DSL provider) to the telephone line between the base unit and the telephone line jack in the event of the following:
 - Noise is heard during conversations.
 - Caller ID feature (p. 20) do not function properly.



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.

→ Settings

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 ?	To store names and phone numbers in memory (p. 28, 34).
Save M1,M2,M3 ?	
Program ?	
Set clock ?	To set the time and date (p. 9).
Change language?	To select the display language (p. 11).

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

<Function menu>*

Change password?	To change the password for the call restriction (p. 39).
Call restrict ?	To set the call restriction (p. 40).
Set flash time ?	To select the flash time (p. 38).
Set dial mode ?	To select the dialing mode (p. 12).
LCD contrast ?	To select the LCD contrast (p. 13).
Set hold music ?	To set a music during the hold (p. 37).
Set auto edit ?	To set area code and edit pattern for incoming call (p. 14).
Time adjustment?	To set the auto time adjustment (p. 15).
VM tone detect ?	To select ON/OFF of voice mail tone (p. 16).

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 [►] also use to select or confirm 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 by programming.

Setting will start from Year → hour/minute → AM/PM/24H → month/date → OK (Save).

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 12/31
2005
▼ [OK]=Next
⏏

4 Press [OK] (Next key).
Enter the current year.
(Ex. To set 2005, enter "05".)
• You can set the year 2000 to 2099.

Enter year
2005
▲▼ [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.
(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.

Enter time
09:30
▲▼ [OK]=Next
⏏

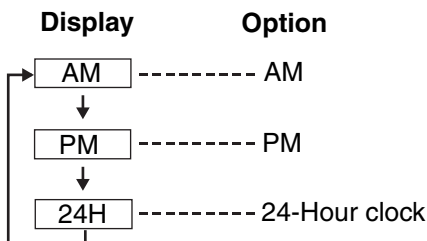
7 Press [OK] (Next key).
• If numbers between 0000 and 0059, or 1300 and 2359 are entered, the time will automatically be set using the 24-hour clock. Skip the steps 8 and 9, and go to the step 10.

#=AM/PM/24H
AM
▲▼ [OK]=Next
⏏

➔ Settings

- 8** Press **[#]** to select “AM”, “PM” or 24-hour clock.
(Ex. You select “PM”.)

#=AM/PM/24H
PM
▲▼ [OK]=Next
⏻



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

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

Enter month/day
12/31
▲ [OK]=Save
⏻

- 10** Enter the current day and month using a 4-digit number.
(Ex. To set Dec. 27, enter “1227”.)

Enter month/day
12/27
▲ [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 or date, the time or date entered are not correct. Enter the correct time or date.

If the batteries installed in the unit expired, the time and date will be shown as “12:00AM 12/31” or “0:00 12/31”, and “⊖” will flash. Replace the batteries then adjust the time and date.

For Caller ID service users (p. 20)

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 the Time Adjustment set to ON (p. 15). If the time/date has not previously been set, the Caller ID information will not adjust the clock.



Display Language

You can select “English” or “Español” as the display language. Your phone comes from the factory set to “English”.

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 “Change language?” by pressing [▼] or [▲].
- 3 Press [OK] (Yes key).
- 4 Select “English” or “Español” by pressing [▼] or [▲].
- 5 Press [OK] (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.

Change language?
▲▼ [OK]=Yes

Language
:English
▲▼ [OK]=Save

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

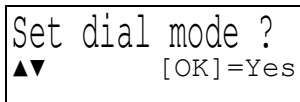
➔ Settings

Dialing Mode

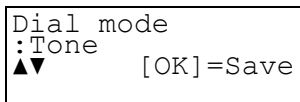
You can select the dialing mode by programming. If you have touch tone service, set to Tone. If rotary or pulse service is used, set to Pulse. Your phone comes from the factory set to Tone.

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

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



Set dial mode ?
▲▼ [OK]=Yes



Dial mode
:Tone
▲▼ [OK]=Save

- 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 comes from the factory set to 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 [▲] and press [OK] (Yes key).
 - The current setting is displayed.

LCD contrast ?
▲▼ [OK]=Yes

- 4 Press [OK] (Yes key).

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

LCD contrast
Low ■■■■ High
▲▼ [OK]=Save

- 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].

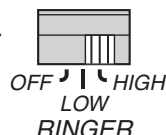
Ringer Volume

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.



Caller ID Number Auto Edit

Once you call back an edited number (p. 23), this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call. For example, it can ignore the area code of calls originating from your area code, so that you can call these numbers from the Caller List without dialing the area code. This function only applicable for 10 digits of incoming number only. Other than 10 digits phone number, the Auto Edit will not be performed by the set for call back function.

To activate this feature, you must edit a caller's phone number in the Caller List (p. 23) by selecting pattern ①, ② or ③, then make a call to that number. Calls from numbers in that area code will be edited automatically. The unit can remember up to 4 area codes to be edited according to pattern ① and ②.

When more than 5 area codes are edited, older area codes are reset to pattern ③. Phone numbers from the 4 most recently edited area codes will be automatically edited. You can turn this feature on or off. The factory preset is ON.

To turn Caller ID Number Auto Edit On or OFF.

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

Set auto edit ?
▲▼ [OK]=Yes

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

Auto edit
:On
▲▼ [OK]=Save

- 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.
- If you fail to reach your destination when making a call, the phone number you dialed might have an incorrect pattern. Edit the phone number with another pattern (p. 23).
- When this feature is turned off, the unit will still be able to display Caller ID, but incoming Caller ID numbers will not be automatically edited.
- If you move to another area, you may need to turn this feature off to erase the previously edited area codes. To use this feature again, turn it on and reprogram the area codes you want to edit once again.



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 comes from factory is set to 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 [▲]. Press [OK] (Yes key).

3 Scroll to "Time adjustment?" by pressing [▼] or [▲].

Time adjustment?
▲▼ [OK]=Yes

4 Press [OK] (Yes key).

5 Select "On" or "Off" by pressing [▼] or [▲].
(Ex. "On" is selected.)

Time adjustment
: On
▲▼ [OK]=Save

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).

➔ Settings

Voice Mail (VM) Tone

If your voice mail service sends a voice mail tone after a new message has finished recording, set to "ON". "☒" icon will flash on the display if a message was recorded in your mailbox. You will hear a series of voice mail tones then a dial tone after lifting the handset.

(Contact your service provider about your service.)

Set to "OFF" when:

- you subscribe the FSK voice mail service.
- you do not subscribe to a voice mail service.
- your voice mail service does not send a voice mail tone, or
- the unit is connected to PBX.

Your phone comes from factory set to "ON".

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

- 3 Scroll to "VM tone detect ?" by pressing **[▼]** or **[▲]**.

VM tone detect ? ▲▼ [OK]=Yes

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

- 5 Select "Off" or "On" by pressing **[▼]** or **[▲]**. (Ex. "On" is selected.)

VM tone detect :On ▲▼ [OK]=Save

- 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.

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]**, 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 misdial, hang up and start again from step 1.

12:34PM 5/21 1234567890

12:34PM 5/21 00-00-02

- 2 When the other party answers, talk into the **MIC** (microphone).
- 3 To hang up, press **[SP-PHONE/HEADSET]**.
 - The indicator light goes out.
 - The display back to standby after a few seconds.

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]**.

➔ Making Calls

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]**.

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 [▼]**.

Ex. Handset volume level: 2



“■” shows one level.

Ex. Speaker volume level: 3



“■” 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 party 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. 20).

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 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 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 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 name and phone number when the unit is ringing.*

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

SMITH, JACK
1-111-444-7777



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 Phonebook or Direct Dial memory, the caller's name will be displayed.

ROBINSON, TINA
1-111-321-4444

- To use this function, names and phone numbers must be stored in the Phonebook (p. 28) or Direct Dial memory (p. 34).
- 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 5/21
10 missed calls

Viewing the Caller List

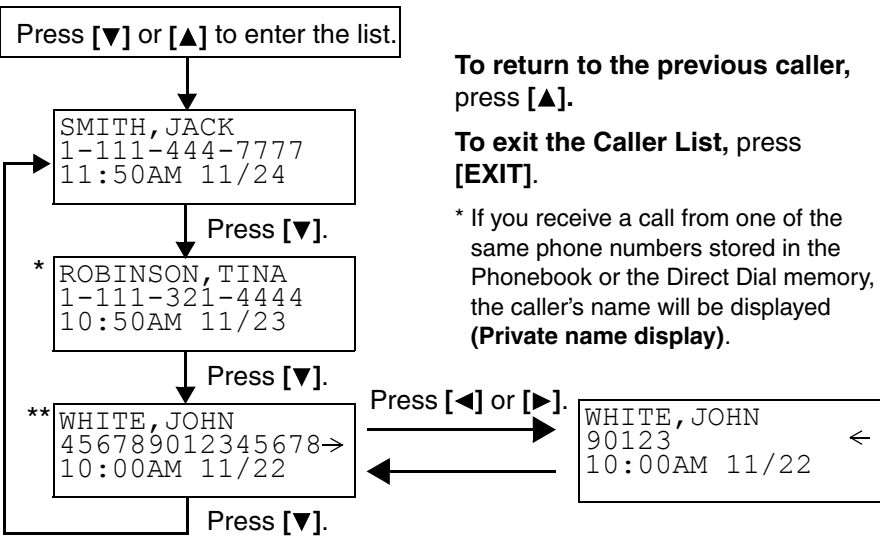
To check who has called, follow the steps below.

- 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 between 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.

Ex. When you search from the most recent call:



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).

** 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.

➔ Using the Caller List

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.

SMITH, JACK
1-111-444-7777
10:50AM 11/23

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.

12:34PM 11/25
11114447777

12:34PM 11/25
00-00-02

- In some cases, you may have to edit the number before dialing (p. 23).
- 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 in the Caller List by removing its area code and/or the long distance code "1".

Once you call back and edited number, this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call (**Caller ID Number Auto Edit**, page 14).

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

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

Smith, Jack
1-111-444-7777
10:50AM 11/23

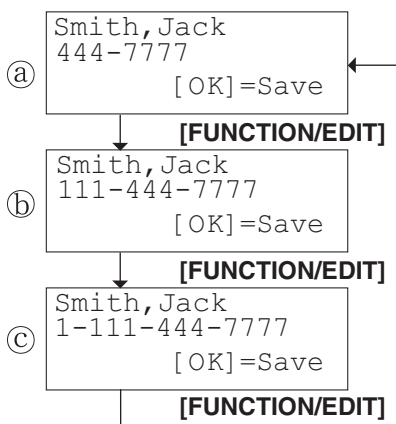
3 Press [FUNCTION/EDIT].

4 Press [FUNCTION/EDIT] repeatedly until the number is shown in the desired format.

- Each time you press [FUNCTION/EDIT], the number is rearranged into one of 3 patterns.

- (a) Phone no.
- (b) Area code — Phone no.
- (c) 1 — Area code — Phone no.

- The order in which pattern (a) — (c) are displayed depends on how the telephone number is displayed in step 2.



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

To call back, lift the handset or press [SP-PHONE/HEADSET] (p. 22).

To store the number in the Phonebook memory, follow steps 4 to 5 on page 24 to complete the operation.

To store the number in the Direct Dial memory, follow steps 4 to 6 on pages 25 and 26 to complete the operation.

- 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.

➔ Using the Caller List

Storing Caller List Information in the Phonebook

You can store numbers that are in the Caller List in 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 [▲].

SMITH, JACK
1-111-444-7777
10:50AM 11/23

3 Press [FUNCTION/EDIT].

- If the number requires editing, see page 23.

1-111-444-7777
[OK]=Save

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. 29). When finished, press [OK] (Next key).

Enter name
▲ [OK]=Next

Enter name
SMITH, JACK
▲ [OK]=Next

>Save phonebook
Save M1, M2, M3
▼ [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.

SMITH, JACK
1-111-444-7777

- 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 33.
- 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 [▲].

SMITH, JACK
1-111-444-7777
10:50AM 11/23

3 Press [FUNCTION/EDIT].

- If the number requires editing, see page 23.

1-111-444-7777
[OK]=Save

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. 29). When finished, press [OK] (Next key).

Enter name
▲ [OK]=Next

Enter name
SMITH, JACK
▲ [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] (Ex. [M1] is pressed).

SMITH, JACK
1-111-444-7777

(Continued ➡)

➔ 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 the other empty Direct Dial memory, press **[▲]** (No key), press an empty Direct Dial button by pressing **[M1]**, **[M2]** or **[M3]** (Save key).

M1 is occupied Overwrite ? [▲]=No [OK]=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.
- To erase other stored items from the Direct Dial memory, see page 35.
- To cancel during programming, press **[EXIT]**. Start again from step 1.
- You cannot store caller information in the Direct Dial memory 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 [▲].

SMITH, JACK
1-111-444-7777
10:50AM 11/23 ✓

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.

Erased

To erase all entries in the Caller List

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

Caller list
10 missed calls
▲▼

2 Press [ERASE].

All erase ?
[▲]=No [OK]=Yes

3 Press [OK] (Yes key).

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

All erased

Phonebook

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]**.

Save phonebook ?
▲▼ [OK]=Yes
📖

2 Press **[OK]** (Yes key).

Phonebook
10 items
📖

3 Enter a name, up to 15 characters with the dialing buttons **[0]** to **[9]**, **[*]** and **[#]** (p. 29).

Enter name
Tom Jones
▼ [OK]=Next
📖

- To move the cursor, press **[◀]** or **[▶]**.
- If a name is not required, go to step 4.

4 Press **[OK]** (Next key).

Enter phone No.
▲
📖

5 Enter a phone number up to 32 digits.

- If you enter a wrong number, press **[ERASE]** and enter the correct number.
- If you want to change the storing name, press **[▲]** to reach the desired display.

0987654321
▲ [OK]=Save
📖

6 Press **[OK]** (Save key).

- The entered name and phone number are displayed.
- The display will return to step 1.

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 33.
- 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 store an emergency number (#):

Emergency numbers are numbers stored in the Phonebook that can be dialed even when the 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.


	Number of times key is pressed								
Keys	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 

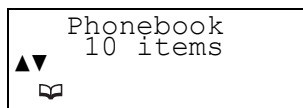
5 Press [6] twice, press [3] twice, then press [7] four times.

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.

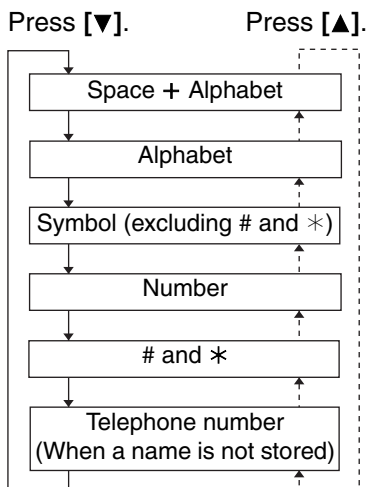


- 2 Scroll to the desired item by using [**▼**] or [**▲**].

- All Phonebook items are stored in order shown on the right.
- Item with # at the beginning will be displayed with first priority if 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 31)
Ex. 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.

Ex. 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. 36).

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 30.

- 3 Press [OK].**
 - 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. 36).
 - 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.

→ Phonebook


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 30.

Jane
123-4567


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. 29).

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

5 Press [**OK**] (Next key).


890 1234567
▲ [OK] = Save


6 Insert the required numbers.

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

7 Press [**OK**] (Save key).

- To exit the Phonebook, press [**EXIT**] or wait for 60 seconds.

Jane
890-123-4567




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 30.

- 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 Call Restriction is set to ON.
- You can exit the programming mode any time by pressing [**EXIT**].

Direct Dial (M1, M2, M3)

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 [▲]. Press [OK] (Yes key).

Save M1,M2,M3 ?
▲▼ [OK]=Yes

3 Enter a name, up to 15 characters with the dialing buttons [0] to [9], [*] and [#] (p. 29).

Enter name
White, John
▼ [OK]=Next

- To move the cursor, press [◀] or [▶].
- If a name is not required, go to step 4.

4 Press [OK] (Next key).

Enter phone No.
▲

5 Enter a phone number up to 32 digits.

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

1234567890
▲ M1,M2,M3=Save

6 Press one of the Direct Dial button [M1], [M2] or [M3] (Save key). (Ex. [M1] is pressed.)

White, John
123-456-7890

- 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.

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

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

To select other empty Direct Dial memory, press **[▲]** (No key), 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 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. 36, 38).

To erase a stored number

1 Press the required Direct Dial button (**[M1]**, **[M2]** or **[M3]**).

2 Press **[ERASE]**.

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

Erase ?
[▲]=No [OK]=Yes

3 Press **[OK]** (Yes key).

- A long beep sounds.

Erased

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

Memory Empty

Dialing

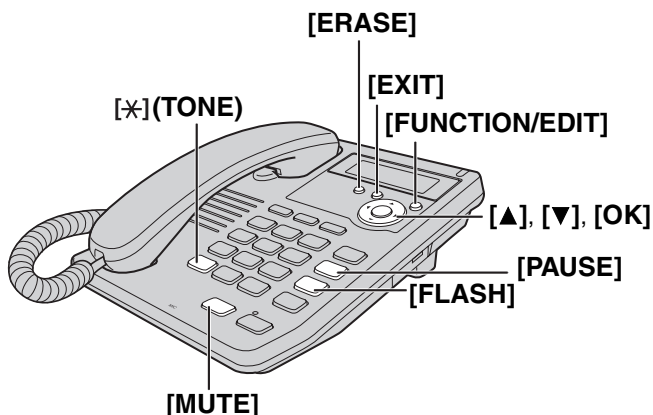
1 Lift the handset or press **[SP-PHONE/HEADSET]**.

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 dialing.

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

How to Use the PAUSE Button

(For 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.

Ex. 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 WAIT".



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

Muting Your Conversation

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

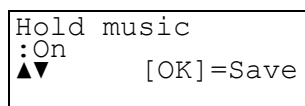
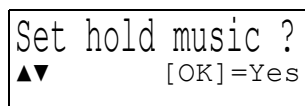
- The other party cannot hear you but you can hear them.
- To resume the conversation, press [MUTE] again.

Setting a Hold Music to ON/OFF

You can set music play during the hold as follows. Your phone comes from the factory set to 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.



➔ Special Features

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 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 **[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 appropriately.



Setting the Password

You can change the password for the 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. (Ex. “1234” is entered.)
 - 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].

Change password?
▲▼ [OK]=Yes

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

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

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

New password
:1234 [OK]=Save

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

→ 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 [▲].

Call restrict ?
▲▼ [OK]=Yes

4 Press [OK] (Yes key).

Restrict No.
:-- [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. 39).
2. Press [OK] (Next key). Go to step 5.
 - If the wrong password is entered, 3 beeps will sound. Enter the correct password.

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

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

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.

Ex: "9" is entered.

Restrict No.
:9- [OK]=Save

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 message(s) is/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 "☒" still flash after you have listened to your voice mail message(s), press **[SP-PHONE/HEADSET]**, and then press and hold **[ERASE]** and "☒" will disappear.

12:34PM 12/15
Voice mail
10 missed calls
☒

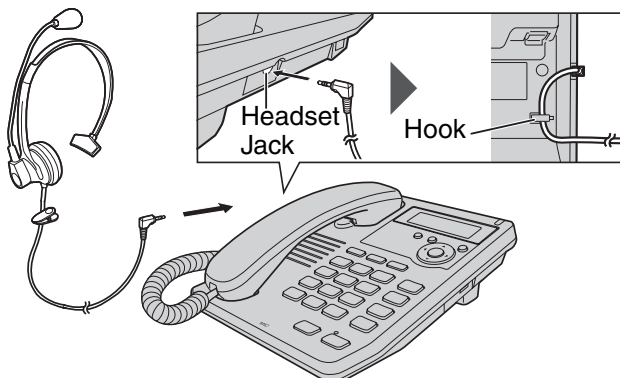
Optional Headset

Plugging the optional headset into the unit allows a hands-free phone conversation.

Please use only a Panasonic KX-TCA60, KX-TCA86, KX-TCA88HA, KX-TCA91, KX-TCA92 or KX-TCA98 headset. To order, call the accessories telephone number on page 2.

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.
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):

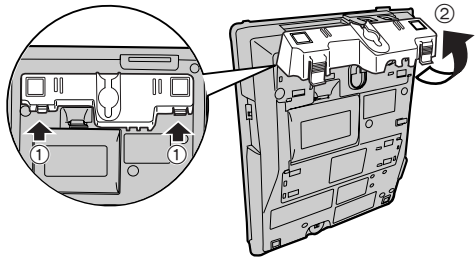
While using the headset, press **VOLUME [▲]** or **[▼]**.

- During a conversation using the headset, you cannot switch the call to 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.

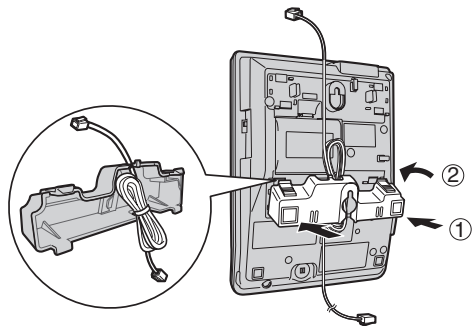
Wall Mounting

This unit can be mounted on a wall.

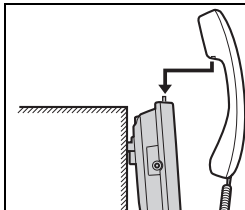
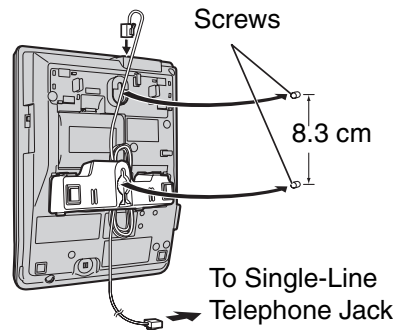
- 1 Press the tabs in the direction of the arrows (①), then remove the wall mounting adaptor (②).



- 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.

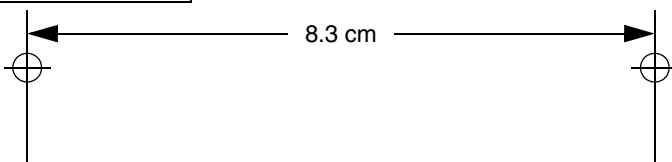


- 3 Drive screws (not included) into the wall using the wall template below. Connect the telephone line cord. Mount the unit, and slide down.



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

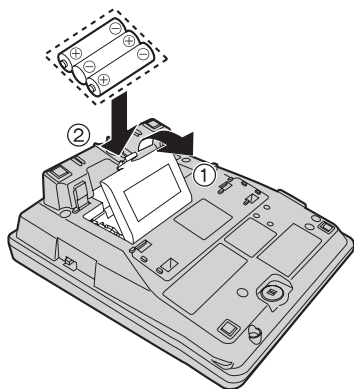
Wall Template



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

- The time will be shown as “12:00AM 12/31” or “0:00 12/31” 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 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 12/31” or “0:00 12/31” 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 – 16).• 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. 12).• 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].
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.• 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.

➔ Troubleshooting

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 32 digits long.• When using the 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. 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 Redial List is erased.	<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.

Important Safety Instructions

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

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

SAVE THESE INSTRUCTIONS

WARNING:

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

➔ Important Safety Instructions

CAUTION:

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

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. 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.

Specifications

Power Source:	From telephone line From 3 AA (LR6, UM-3, R6) batteries
Dimensions (H x W x D):	Approx. 91 mm x 165 mm x 220 mm (3 ¹⁹ / ₃₂ x 6 ¹ / ₂ x 8 ²¹ / ₃₂)
Mass (Weight):	Approx. 700g (1.54lb.)
Dialing Mode:	Tone (DTMF)/Pulse
Operating Environment:	5 °C – 40 °C (41°F – 104°F)

Specifications are subject to change without notice.

FCC and Other Information

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

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

Registration No. (found on the bottom of the unit)
Ringer Equivalence No. (REN) 1.0B

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

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

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

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

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

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

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

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

CAUTION:

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

Note:

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

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

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

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

A TIA/EIA-IS-968 compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that is also TIA/EIA-IS-968 compliant.

- **Environment**—do not place the unit in room where the temperature is less than 5 °C (41°F) or greater than 40 °C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Routine care**—wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder.
- **If there is any trouble**—disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

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Warranty

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

PANASONIC PUERTO RICO, INC.
San Gabriel Industrial Park,
Ave. 65 de Infantería, Km. 9.5,
Carolina, Puerto Rico 00985

Panasonic Telephone Limited Warranty

Limited Warranty Coverage

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

Parts

One (1) Year

Labor

One (1) Year

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

To obtain service in the USA please contact:

Panasonic Services Company, Panasonic Plus Department
20421 84th Avenue South
Kent, WA 98032
Tel: 1-800-833-9626 Fax: 1-800-237-9080

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

For Limited Warranty service for headsets if a headset is included with this product please call Panasonic Plus Department at 1-800-833-9626.

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

➔ Warranty

Limited Warranty Limits And Exclusions

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

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

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

This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the address listed for the warrantor.

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

Customer services

Customer Services Directory

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

<http://www.panasonic.com/consumersupport>

or, contact us via the web at:

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

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

TTY users (hearing or speech impaired users) can call 1-877-833-8855.

Accessory Purchases

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

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

or, send your request by E-mail to:

npcpart@us.panasonic.com

You may also contact us directly at:

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

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

Panasonic Services Company

20421 84th Avenue South, Kent, WA 98032

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

TTY users (hearing or speech impaired users) can call 1-866-605-1277.

Service in Puerto Rico

Panasonic Puerto Rico, Inc.

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

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

If you need assistance with setup or operation;

- 1 Visit our website: <http://www.panasonic.com/consumersupport>
- 2 Contact us via the web at: <http://www.panasonic.com/contactinfo>
- 3 Call us at: 1-800-211-PANA (7262)

TTY users (hearing or speech impaired users) can call 1-877-833-8855

When you ship the product

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

Symptom _____

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

**If you need assistance with the setup or operation,
please call 1-800-211-PANA(7262)**

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

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**Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America**

One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Puerto Rico, Inc.

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

PQQX14924ZA FM1005SN0

For assistance, please visit <http://www.panasonic.com/phonehelp>