

Model No. KX-TS17-W

Pulse-or-tone dialing capability

Operating Instructions





Before Initial Use

Please read IMPORTANT SAFETY INSTRUCTIONS on pages 32–33 before use. Read and understand all instructions.

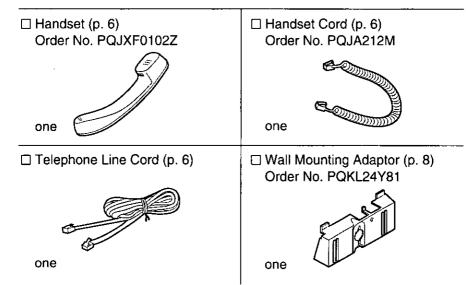
Thank you for purchasing your new Panasonic integrated telephone.

Attach your purchase receipt here.

For your future reference

Serial No.	Date of purchase	r	
(found on the bottom of the unit)			•
Name and address of dealer			

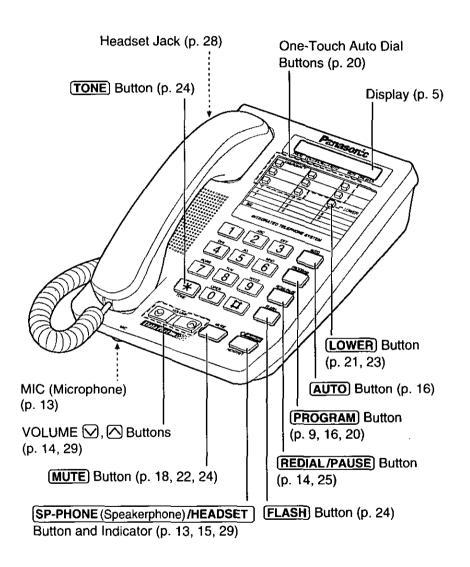
Accessories (Included) To order, call 1-800-332-5368.



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Location of Controls



Display



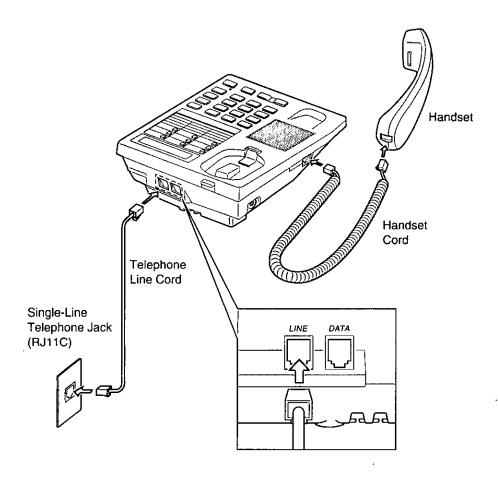
(This display shows all of the possible configurations.)

- U 15-30 During a conversation, the call duration is displayed. (Example: 15 minutes, 30 seconds)
 - The unit is in the programming mode (p. 9, 16, 20).
 - The AUTO button was pressed while dialing or storing phone numbers for the Speed Dialer (p. 16, 19).
 - The LOWER button was pressed (p. 21, 23).
 - The ringer is set to OFF (p. 10).
 - The MUTE button was pressed during a conversation (p. 24).
 - The dial lock mode is set. To cancel the mode, see page 27.
 - The FLASH button was pressed while storing phone numbers.
 - The PAUSE button was pressed while dialing or storing phone numbers.
 - You pressed * while dialing or storing phone numbers in the TONE mode.
 - You pressed # while dialing or storing phone numbers in the TONE mode.
 - While storing a phone number in an UPPER memory location for the One-Touch Dialer, " " will appear when you press a one-touch auto dial button (p. 20).
 - While storing a phone number in a LOWER memory location for the One-Touch Dialer, "a" will appear when you press a one-touch auto dial button (p. 21).
- The MUTE button was pressed as a secret button while storing phone numbers (p. 18, 22).
 - While programming function items, such as the dialing mode, "u" will flash as a cursor.

Settings

Connecting the Handset/Telephone Line Cord

After connecting the handset and telephone line cord, lift the handset to confirm the dial tone.



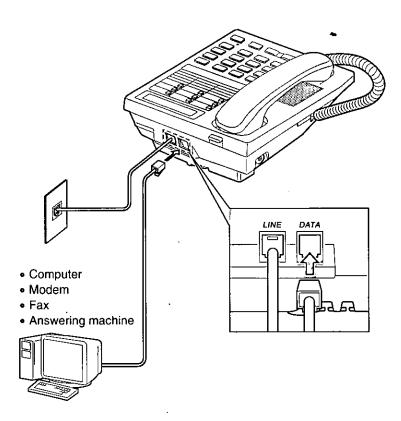
• Use only a Panasonic Handset for the KX-TS17-W.



Connecting a Communication Device

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

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

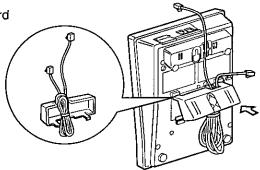


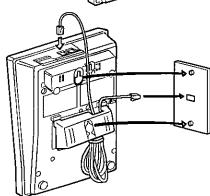
 Be sure that the communication device is not in use before using this unit (making calls, storing phone numbers in memory, etc.), or the communication device may not operate properly.

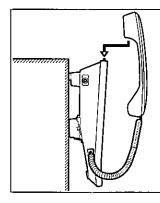
Wall Mounting

This unit can be mounted on a wall phone plate.

- Pull down the handset hook until it locks, so the tab holds the handset.
- Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.
 - The word "UP" should face upward.
- Connect the telephone line cord. Mount the unit, then slide down.







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



Selecting the Dialing Mode

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

- | Lift the handset.
- Press PROGRAM.

 " -> " is displayed.

→>

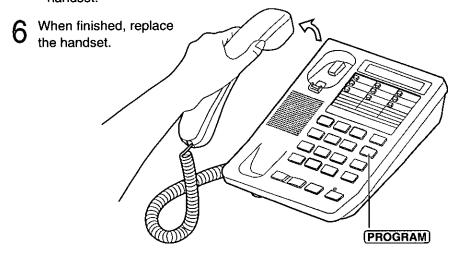
Press 3.

⇒ 3-°u°

To select PULSE, press ①.
OR
To select TONE, press ①.

Ex. PULSE is selected.

- 5 Press PROGRAM.
 - A beep sounds on the handset.



- To cancel during programming, replace the handset, then start from step 1.
- If 4 beeps sound during programming, a wrong key was pressed.
 Replace the handset, then start from step 1.



Turning the Ringer On/Off

When set to OFF, the unit will not ring. Your phone comes from the factory set to ON.

- 4 Lift the handset.
- Press PROGRAM.

• " →> " is displayed.

→>

? Press **9**.

*3÷*υ′′

To turn OFF, press (0).
OR
To turn ON, press (1).

Ex. OFF is selected.

- 5 Press PROGRAM.
 - A beep sounds on the handset.

\$

- When set to OFF,
 "盆" is displayed.
- When finished, replace the handset.



- To cancel during programming, replace the handset, then start from step 1.
- If 4 beeps sound during programming, a wrong key was pressed.
 Replace the handset, then start from step 1.

In the stand-by mode, the display is blank. When the ringer is set to OFF, " 黨" will be displayed when you lift the handset or press [SP-PHONE/HEADSET].



Selecting the Ringer Volume

You can select the ringer volume by programming. Set to HIGH, MID or LOW. Your phone comes from the factory set to HIGH.

- Press PROGRAM.
 - " →> " is displayed.

→

Press 6.

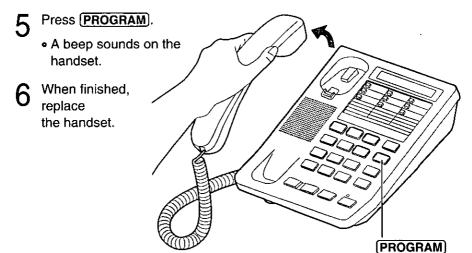
-> δ-,̈́υ,̈́

To select LOW, press 1.
To select MID, press 2.
OR

Ex. LOW is selected.

5-1

- To select HIGH, press 3.
- Each time you press a button, the selected volume will ring.



- To cancel during programming, replace the handset, then start from step 1.
- If 4 beeps sound during programming, a wrong key was pressed.
 Replace the handset, then start from step 1.
- If you change the ringer volume when the ringer is set to OFF (p. 10), the ringer will automatically turn ON.



Selecting the Ringer Tone (5 Types)

You can select one of 5 types of ringer tones. Your phone comes from the factory set to type 2.

- 4 Lift the handset.
- 2 Press PROGRAM.

• " →> " is displayed.

→

? Press **?**.

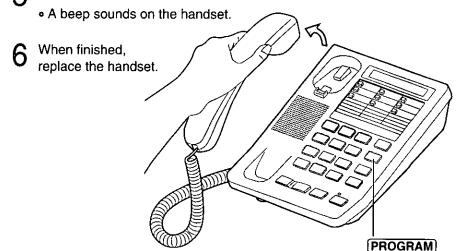
7-4

- A Press a dialing button (1) to (4).
 - Each time you press a button, the selected tone will ring.

Ex. Type 4 is selected.

7-4

Press PROGRAM.



- To cancel during programming, replace the handset, then start from step 1.
- If 4 beeps sound during programming, a wrong key was pressed.
 Replace the handset, then start from step 1.
- If you change the ringer tone when the ringer is set to OFF (p. 10), the ringer will automatically turn ON.

Making Calls



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

Using the speakerphone

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

 SP-PHONE/HEADSET).

• The indicator light goes out.

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

MIC REDIAL/PAUSE

VOLUME V. A SP-PHONE/HEADSET

and Indicator



During the speakerphone operation:

- For best speakerphone performance, talk alternately with the caller in a quiet room.
- If the caller complains that your voice is hard to hear, press **VOLUME** \bigvee 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 adjust the handset volume (5 levels) or the speaker volume (9 levels) while talking

To increase, press **VOLUME** . To decrease, press VOLUME .

- " a" shows the volume level.
- The display will return to the dialed number, then the length of the call.
- After hanging up, the handset volume will return to the middle level.

Ex. Handset volume level: 4
0000
Ex. Speaker volume level: 4

0000-

To redial the last number dialed

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

press (REDIAL/PAUSE).

Answering Calls

While a call is being received, the unit rings. You can answer it by simply lifting the handset.

Using the speakerphone

- 1 Press (SP-PHONE/HEADSET).
 - The indicator lights.
- 7 Talk into the MIC (microphone).



When the ringer volume is set to OFF (p. 10), the unit will not ring.

When the optional headset is connected to the unit (p. 28), be sure to use the headset to talk with the caller. If you want to have a normal phone conversation, disconnect the headset before making or answering a call.

Speed Dialer

Storing Phone Numbers in Memory

You can store up to 10 phone numbers in the memory stations. The dialing buttons (① to ②) function as memory station numbers. Do not press any memory stations before storing to prevent misoperation.

- 4 Lift the handset.
- Press PROGRAM.
 - " →> " is displayed.
- ? Press AUTO.
 - "→• " is displayed.
- Press a memory station number (0) to 9).
- Enter a phone number up to 21 digits.
 - The entered number is displayed.
- Press PROGRAM.
 - A beep sounds on the handset.
- When finished, replace the handset.
 - To store other numbers, repeat steps 1 through 7.

- umber Ex. 1 is pressed.
 - *1- 123*4567
- Memory Station Numbers

 AUTO

 PROGRAM

 REDIAL /PAUSE
- If a pause is required for dialing, (REDIAL/PAUSE) can be stored in a phone number counting as one digit (p. 25).
- To cancel during programming, replace the handset, then start from step 1.
- If 4 beeps sound during programming, a wrong key was pressed. Replace the handset, then start from step 1.
- You can keep the stored numbers confidential. See page 18.

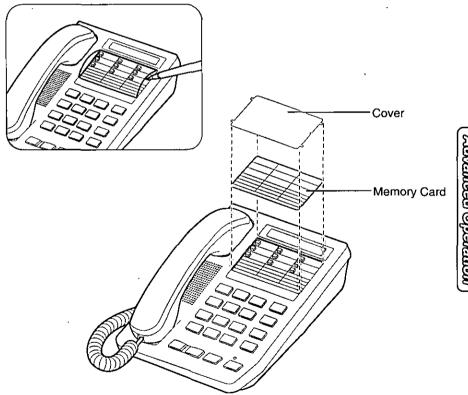


To erase a stored number

- 1. Lift the handset.
- 2. Press (PROGRAM).
- 3. Press (AUTO).
- 4. Press the memory station number (0 to 9) for the phone number to be erased.
- 5. Press PROGRAM, then replace the handset.

Memory card

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



To store confidential numbers (Secret button feature)

Confidential numbers stored in a memory station using this feature will not be displayed when dialing. The <u>MUTE</u> button functions as a secret button when storing. Press <u>MUTE</u> before and after the number(s) to be concealed. Pressing <u>MUTE</u> once counts as one digit.

Example: To conceal all digits of the phone number "0987654"

1	Lift the handset.	
2	Press (PROGRAM).	->
3	Press (AUTO).	→> → +
4	Press a memory station number (0 to 9).	Ex. ② is pressed.
5	Press MUTE.	⇒ 2-€
6	Press "0987654".	<i>≥-2098765</i> 4
7	Press MUTE.	<i>≥-[098785</i> 4]
8	Press (PROGRAM).	
a	When finished, replace the handset.	

When dialing, the display will show " \mathcal{L} ----- \mathcal{J} ".

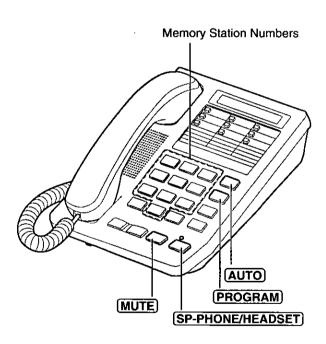
Dialing a Stored Number

- Lift the handset or press **SP-PHONE/HEADSET**.
- Press AUTO.

→

1234587

- Press the memory station number (0 to 9).
 - The stored number is displayed and dialed.



One-Touch Dialer

You can store up to 16 phone numbers in the one-touch auto dial buttons (8 numbers in UPPER memory locations, 8 numbers in LOWER memory locations).

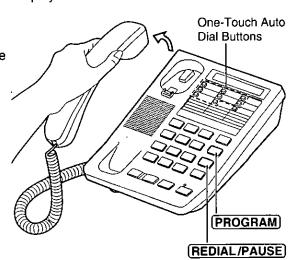
Storing Phone Numbers in Memory

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

To store in an UPPER memory location

It is recommended that you program an emergency number in the top left one-touch auto dial button (EMERGENCY button).

- 4 Lift the handset.
- Press PROGRAM.
 - " →> " is displayed.
- Press one of the one-touch auto dial buttons.
 - " O _ " is displayed.
- ⚠ Enter a phone number up to 21 digits.
 - The entered number is displayed.
- Press PROGRAM.
 - A beep sounds on the handset.
- 6 When finished, replace the handset.
 - To store other numbers, repeat steps 1 through 6.



0.

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To store in a LOWER memory location

- Press PROGRAM.

 "→> " is displayed.

→

3 Press LOWER to select a lower memory location.

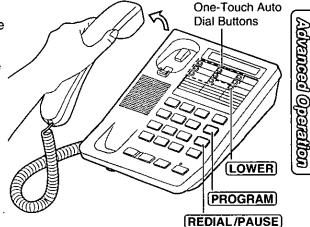
⇒ ∽

- " _ " is displayed.
- Press one of the one-touch auto dial buttons.
 - " a " is displayed.

- → 0-
- 5 Enter a phone number up to 21 digits.
 - The entered number is displayed.

o-3334444 →

- Press PROGRAM.
 - A beep sounds on the handset.
- When finished, replace the handset.
 - To store other numbers, repeat steps 1 through 7.



- If a pause is required for dialing, <u>REDIAL/PAUSE</u> can be stored in a phone number counting as one digit (p. 25).
- To cancel during programming, replace the handset, then start from step 1.
- If 4 beeps sound during programming, a wrong key was pressed.
 Replace the handset, then start from step 1.
- You can keep the stored numbers confidential. See page 22.



To erase a stored number

- 1. Lift the handset.
- 2. Press (PROGRAM).
- If the phone number is in an UPPER memory location, press the one-touch auto dial button for the phone number to be erased. OR

If the phone number is in a LOWER memory location, press (LOWER), then press the one-touch auto dial button for the phone number to be erased.

4. Press PROGRAM, then replace the handset.

Memory card

Use the memory card as a name or phone number index for the stored numbers (p. 17).

To store confidential numbers (Secret button feature)

Confidential numbers stored in a one-touch auto dial button using this feature will not be displayed when dialing. The MUTE button functions as a secret button when storing. Press MUTE before and after the number(s) to be concealed. Pressing MUTE once counts as one digit.

Example: To conceal all digits of the phone number "4445555" in an UPPER memory location

1	Lift the handset.	
2	Press (PROGRAM).	· -⇒
3	Press one of the one-touch auto dial buttons.	0. ⇒
4	Press MUTE.	-> °[
5	Press "4445555".	<i>□-[444</i> 5555
6	Press MUTE.	⇒ . °-[4445555]
7	Press (PROGRAM).	

When dialing, the display will show "[-----]".

When finished, replace the handset.

Dialing a Stored Number

With an UPPER memory location:

- Lift the handset or press SP-PHONE/HEADSET.
- Press the desired one-touch auto dial button.

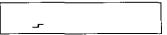
1112222

• The stored number is displayed and dialed.

OR

With a LOWER memory location:

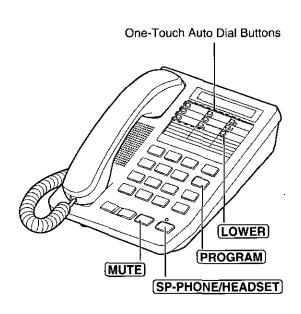
- Lift the handset or press SP-PHONE/HEADSET.
- Press LOWER.



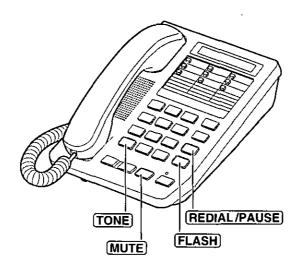
Press the desired one-touch autodial button.

3334444

• The stored number is displayed and dialed.



Special Features



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.

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.

Muting Your Conversation

Press MUTE while talking. " X " is displayed.

- The other party cannot hear your voice but you can hear theirs.
- To resume the conversation, press MUTE again.



How to Use the PAUSE Button

(For Analog PBX Line/Long Distance Service Users)

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

- Ex. Line access number 9 (PBX)
 - 9 ➡ (REDIAL/PAUSE) ➡ Phone number
- Pressing (REDIAL/PAUSE) once creates a 3.5 second pause.
 This prevents misdialing when you redial or dial a stored number.
- Pressing (REDIAL/PAUSE) more than once increases the length of the pause between numbers.
- When you store phone numbers in memory or press REDIAL/PAUSE to redial, if REDIAL/PAUSE is stored anywhere after the first 5 digits, dialing will stop where REDIAL/PAUSE was entered. Press REDIAL/PAUSE to continue dialing.
 - Ex. To access a voice mail service: "1234567 REDIAL/PAUSE 890" is stored in an UPPER memory location in a one-touch auto dial button (for the One-Touch Dialer). "890" is the access number.

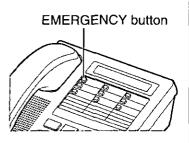
 Lift the handset or press SP-PHONE/HEADSET ⇒ press the one-touch auto dial button ("1234567" is dialed) ⇒ follow the pre-recorded instructions ⇒ press REDIAL/PAUSE ("890" is dialed).



Dial Lock

You can prohibit anyone from making a call to any number except the one you programmed in the UPPER memory location at the top left one-touch auto dial button (EMERGENCY button). Once you locked the dialing buttons, even emergency numbers, such as 911, cannot be dialed. Only incoming calls are accepted until the dial lock is canceled.

Before using this feature, we recommend storing an emergency number in the UPPER memory location in the top left one-touch auto dial button (EMERGENCY button) (p. 20). Even if the dialing buttons are locked, the number stored in this button can be



Note: If you choose not to program an emergency number, but plan to use dial lock, any number programmed into the UPPER memory location in the top left one-touch auto dial button can be accessed.

To set the dial lock

- 1. Program the emergency number you want to have accessible. (See above.) Mark the button accordingly.
- 2. Lift the handset.

dialed.

- Press (PROGRAM).
- 4. Press (5), (3) and then (9).
- Press (PROGRAM).
 - " -O" is displayed.
- When finished, replace the handset.

→>		
→ >	5-39	

In the stand-by mode, the display is blank.

"-O" will be displayed when you lift the handset or press

SP-PHONE/HEADSET).

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

- Dialing a number you programmed in the UPPER memory location at the top left one-touch auto dial button (p. 26)
- Selecting the dialing mode (p. 9)
- Turning the ringer on/off (p. 10)
- Selecting the ringer volume (p. 11)
- Selecting the ringer tone (p. 12)
- Adjusting the handset, speaker and headset volumes (p. 14, 29)
- Muting the conversation (p. 24)

To cancel the dial lock

Repeat steps 2 through 6 on page 26.

• " ←O " will disappear.



Using an Optional Headset

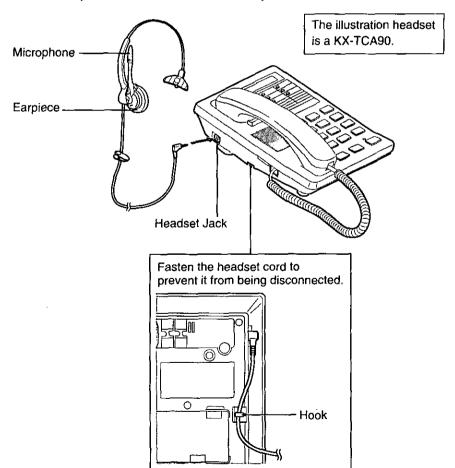
Plugging an optional headset into the unit provides a hands-free phone conversation.

Please use only a Panasonic KX-TCA80 or KX-TCA90 headset. To order, call the accessories telephone number on page 2.

When the optional headset is connected to the unit, be sure to use the headset to talk with the caller. If you want to have a normal phone conversation, disconnect the headset before making or answering a call.

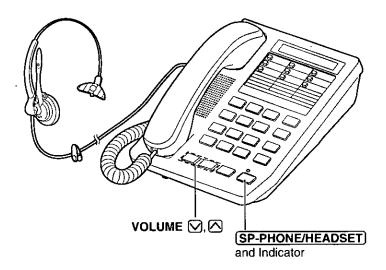
Connecting an Optional Headset to the Unit

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



Making/Answering Calls

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



To adjust the headset receiver volume (5 levels):

While using the headset, press **VOLUME** \bigcirc or \bigcirc .

- After hanging up, the volume will return to the middle level.
- During a conversation with the optional headset, you cannot switch the call to the handset by lifting it off the cradle.
- If you disconnect the optional headset during a conversation, you can continue the conversation with the handset by lifting it up. But the call cannot be switched to the speakerphone.
- During a conversation with the speakerphone, you cannot switch the call to the optional headset by connecting the headset.

Before Requesting Help

Problem	Remedy
The unit does not work.	• Check the settings (p. 6–12).
You cannot dial.	 Check whether the dialing mode selection is correct or not (p. 9). Dial lock mode is set. To cancel the mode, see page 27.
The unit does not ring.	 The ringer is set to OFF. Set to ON (p. 10).
The other party suddenly cannot hear your voice during a conversation.	• MUTE) may have been pressed during the conversation. If " 数" is displayed, press MUTE.
You cannot store a phone number in memory.	 Confirm the handset is off the cradle. Do not enter a phone number more than 21 digits long, or the entered number will be erased.
(REDIAL/PAUSE) does not function properly.	 The button has a double function as either redial or pause. It will redial the last number dialed if pressed at the outset of a call (p. 14). If another number has been dialed first, it will operate as a pause button (p. 25).
You cannot have a conversation using the optional headset.	 Make sure that the optional headset is connected properly (p. 28). Press (SP-PHONE/HEADSET) to make or answer a call. If you lift the handset and replace it back on the cradle, the call will be disconnected.

		
Problem	Remedy	
You cannot have a conversation using the handset or speakerphone.	 When the optional headset is plugged into the unit (p. 28), you must use the headset to talk with the caller. To have a normal phone conversation, disconnect the optional headset before making or answering a call. 	
If you cannot solve your problem	Call our customer call center at 1-800-211-PANA(7262).	

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.

- Read and understand all instructions.
- 2. Follow all warnings and instructions marked on this unit.
- 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.
- 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.
- 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 servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
- 11. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the unit.
 - C. If the unit has been exposed to rain or water.
 - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
 - E. If the unit has been dropped or physically damaged.
 - F. If the unit exhibits a distinct change in performance.

- 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.

FCC and Other Information

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

Ringer Equivalence No. (REN):

The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

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

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

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

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

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

When programming emergency numbers and/or making test calls to emergency numbers:

- Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
- Perform such activities in the off-peak hours, such as early morning hours or late evenings.

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

CAUTION:

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

Note:

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Environment do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- 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 with your
 telephone company.

For product service

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

When you ship the product

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

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

Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park Carolina, Puerto Rico 00985