

# Panasonic

INTEGRATED TELEPHONE SYSTEM

KX-T3185D-B

KX-T3185D-W

Model No. KX-T3185/KX-T3185-B

EASA-PHONE®

**3 LINE**

Pulse-or-tone dialing capability

## Operating Instructions



KX-T3185D-W

PLEASE READ BEFORE USE AND SAVE.

Please read **IMPORTANT SAFETY INSTRUCTIONS** on pages 35–36 before use. Read and understand all instructions.

## Introduction (Features) \_\_\_\_\_

*Thank you for purchasing the Panasonic integrated telephone system.*

Attach your purchase receipt here.

### For your future reference

Serial No. \_\_\_\_\_

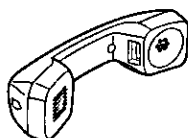
(found on the bottom of the unit)

Date of purchase \_\_\_\_\_

Name and address of dealer \_\_\_\_\_

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

Handset (p. 7)



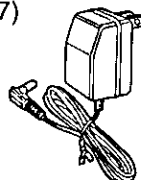
one

Handset cord (p. 7)



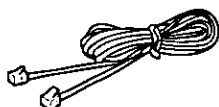
one

AC adaptor (KX-A10)  
(p. 7)



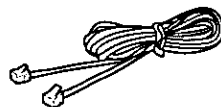
one

6-wired telephone line cord with  
black plugs (pp. 8, 9)



one

2-wired telephone line cord  
with transparent plugs (pp. 8, 9)



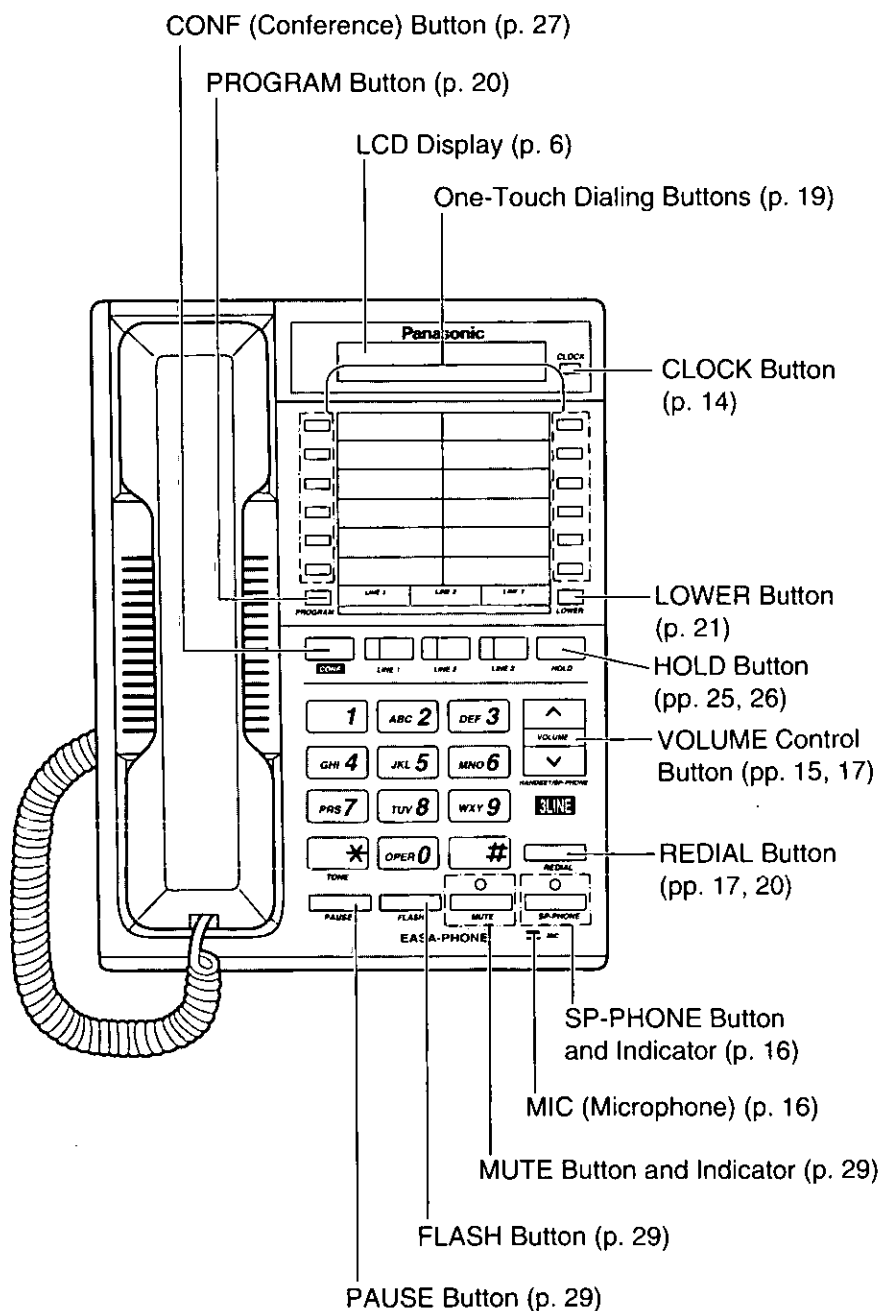
two

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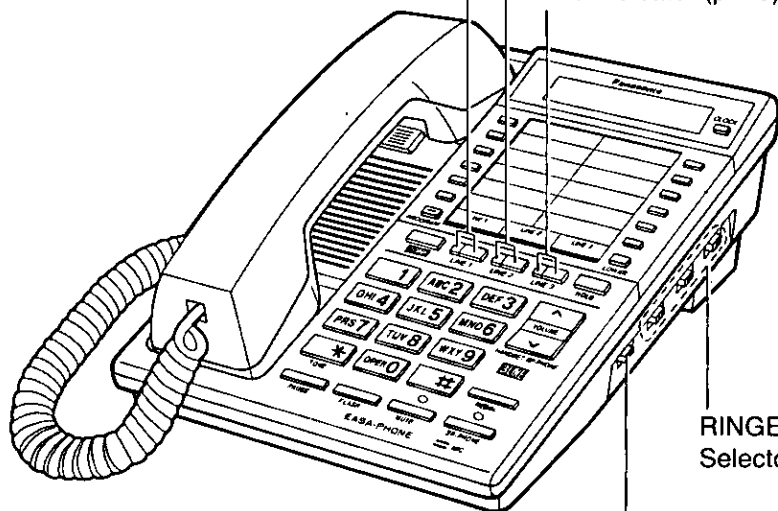
# Location of controls



LINE 1 Button and Indicator (p. 13)

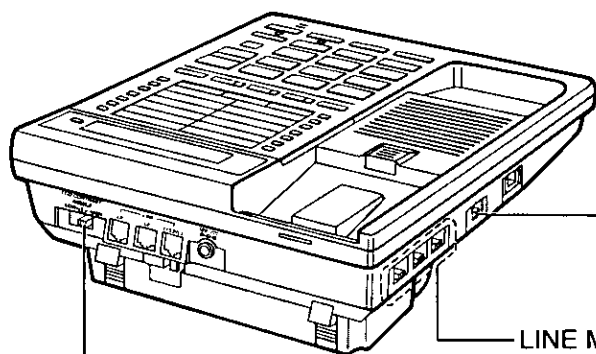
LINE 2 Button and Indicator  
(p. 13)

LINE 3 Button  
and Indicator (p. 13)



RINGER  
Selectors (p. 10)

DIALING MODE  
Selector (p. 10)



POWER FAILURE  
LINE SELECT (p. 11)

LINE MODE Selectors (p. 11)

LCD CONTRAST Selector (p. 11)

# Display



(The display shows all the possible configurations.)

**TIME SET -> [X] -> CLOCK**

The steps of the setting time procedure you should follow now. (p. 12)

**L1 RINGER OFF**

The LINE 1 RINGER selector is in the OFF position. (p. 18)

**L2 RINGER OFF**

The LINE 2 RINGER selector is in the OFF position. (p. 18)

**L3 RINGER OFF**

The LINE 3 RINGER selector is in the OFF position. (p. 18)

**PROGRAM**

The unit is in the programming mode. (p. 20)

**PHONE NO. -> STATION**

The steps of the storing procedure you should follow now. (p. 20)

**REDIAL**

The unit is redialing. (p. 17)

**LOWER**

The lower memory station is selected. (p. 21)

**VOL**

The VOLUME button is pressed during the conversation. (pp. 15, 17)

**F**

The FLASH button is pressed while storing numbers.

**P**

The PAUSE button is pressed.

**☒**

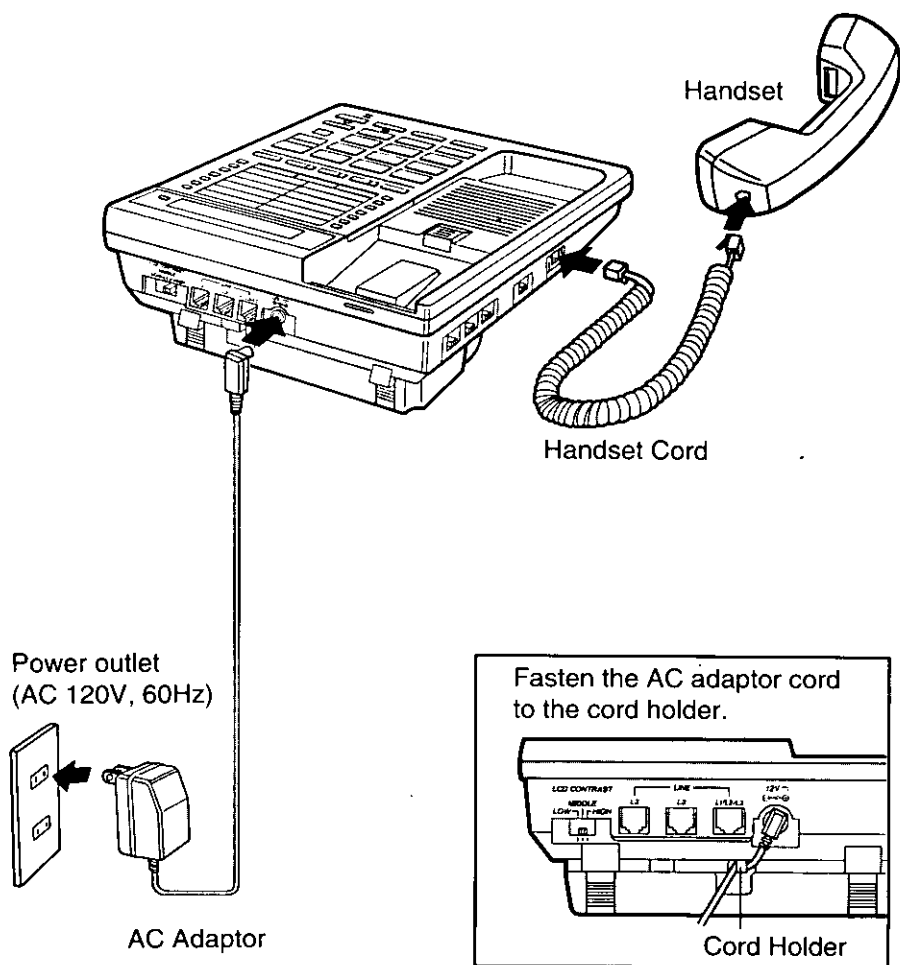
"\*" is pressed when the dialing mode is TONE.

**≡**

"#" is pressed when the dialing mode is TONE.

# Connection

## Connecting the handset and the AC adaptor



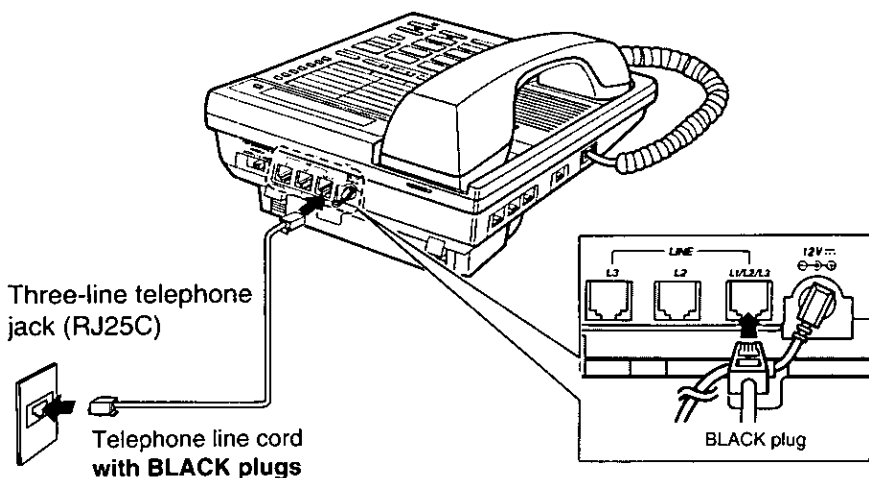
### Note:

- During a power failure the unit will work as a single-line telephone, but the line indicators will not light and the RINGER selectors will not function.
- Use only Panasonic Handset for the KX-T3185/KX-T3185B/KX-T3185D-B/KX-T3185D-W.
- USE ONLY Panasonic AC ADAPTOR KX-A10, which must remain connected.

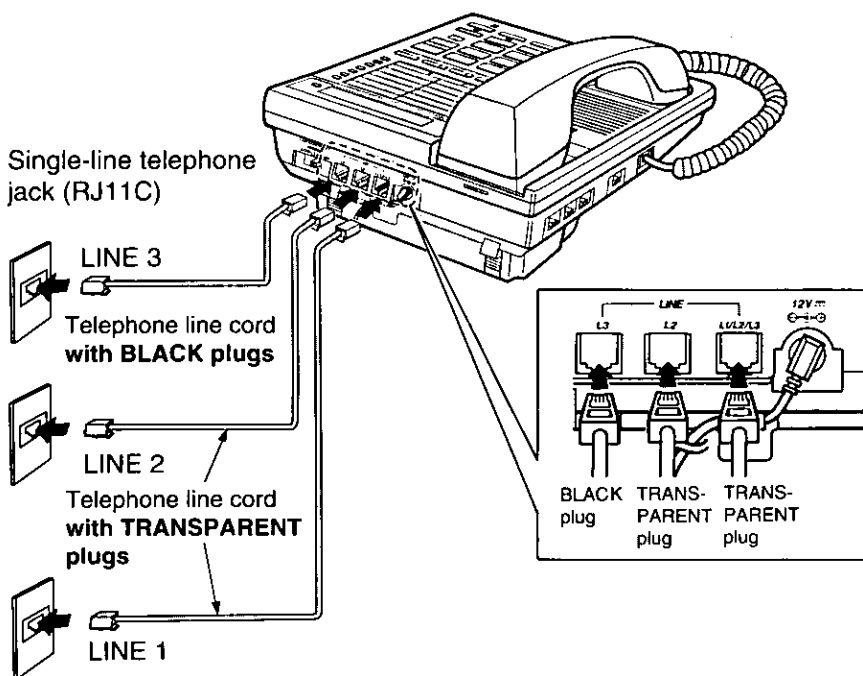
# Connecting the telephone line cord

Connect the telephone line cord to the unit by following each figure.

## To connect to a three-line telephone jack (RJ25C)

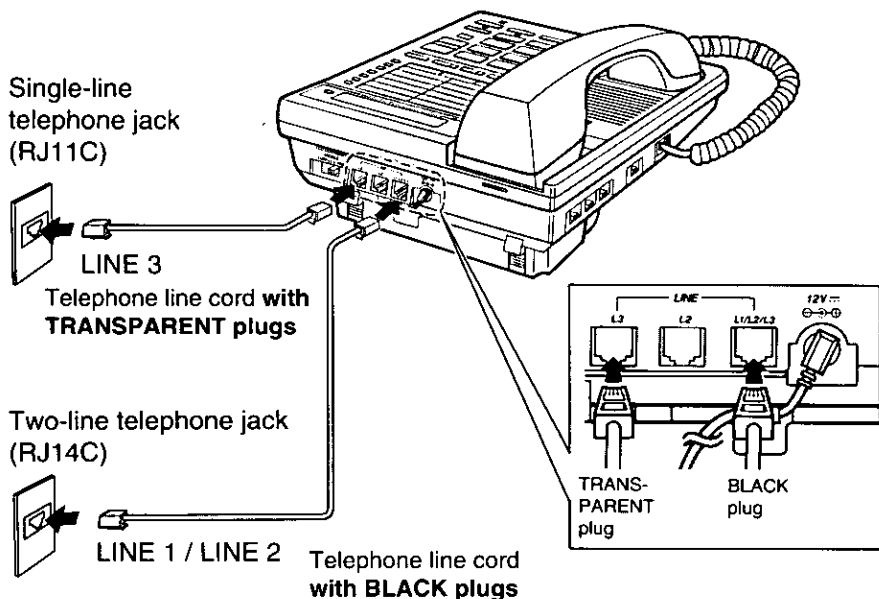


## To connect to three single-line telephone jacks (RJ11C)



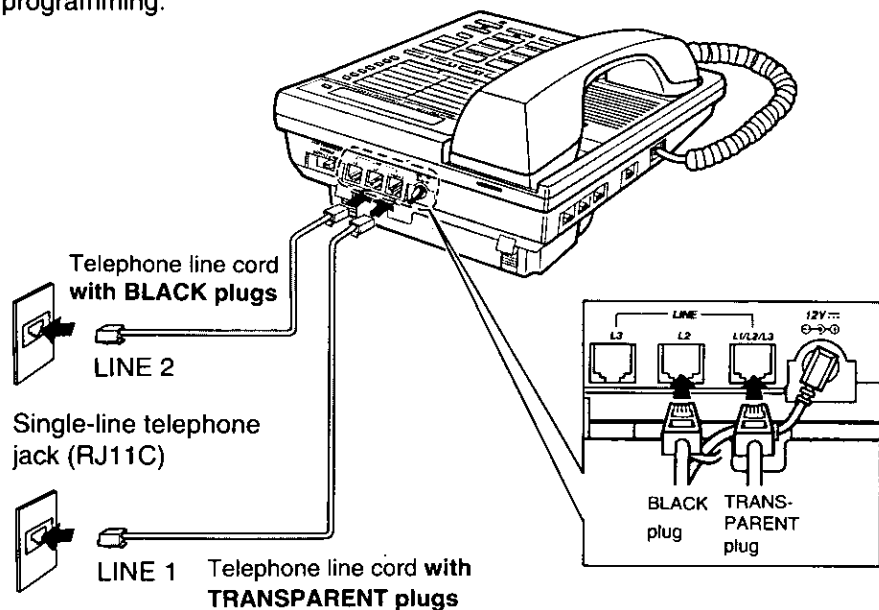


## To connect to a two-line and a single-line telephone jacks (RJ14C and RJ11C)

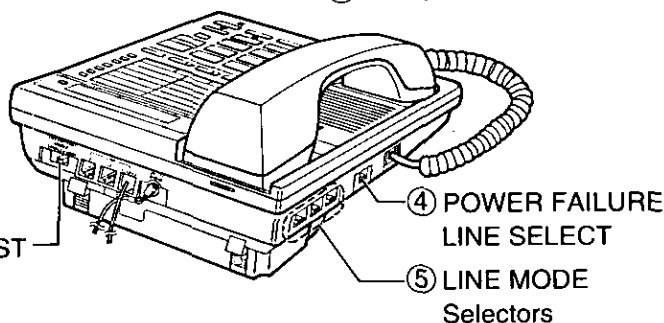
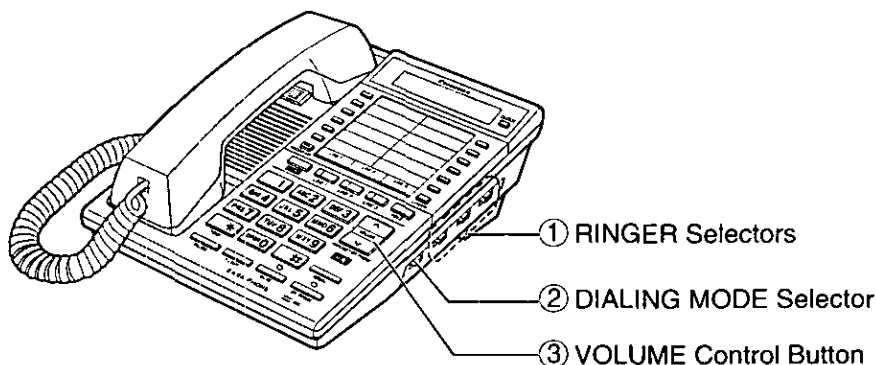


## Using the unit as a two-line telephone

If you use the unit as a two-line telephone, see page 30 for Line indicator programming.

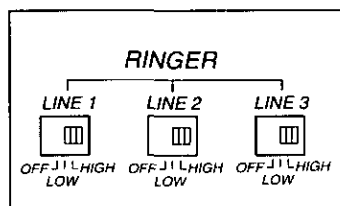


# Setting selectors



⑥ LCD CONTRAST Selector

## ① RINGER Selectors

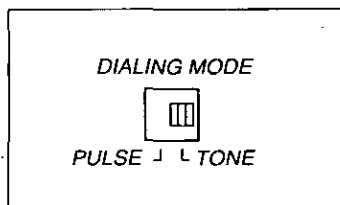


Used to set the ringer volume of each line.

Set to the HIGH or the LOW position. When setting to the OFF position, the bell will not ring.

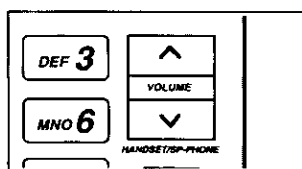
When another call is arriving during a conversation, the bell does not ring.

## ② DIALING MODE Selector



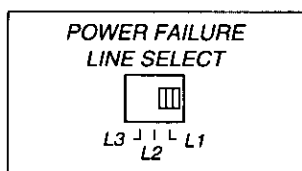
Set to the TONE position when all the telephone lines have touch tone service. If one (two) of them has (have) rotary service, set to the PULSE position.

### ③ VOLUME Control Button



You can change the volume of the handset receiver or the speakerphone during the conversation. (pp. 15, 17)

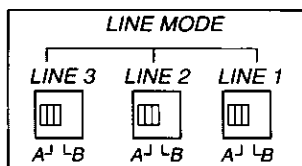
### ④ POWER FAILURE LINE SELECT



During a power failure the unit works as a single line telephone.

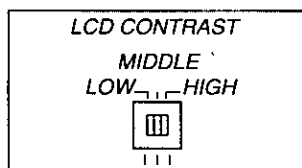
Set to L1, L2 or L3 to select the line for a power failure.

### ⑤ LINE MODE Selectors



Set each line to the A position. If the line is connected to a low voltage system such as PBX, set to the B position.

### ⑥ LCD CONTRAST Selector



Usually set to the MIDDLE position.  
HIGH: The contrast is high density.  
LOW: The contrast is low density.

## Line selection mode programming

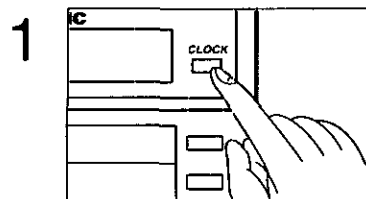
The unit select the free line when you lift the handset or press the SP-PHONE button, and the line an incoming call is arriving automatically. If you want to change the line selection mode, see page 31 for programming.

## Incoming call tone programming

During a conversation, if you have set the incoming call tone ON, you are alerted that another call is arriving. Two tones sound every 15 seconds. See page 29 for programming.

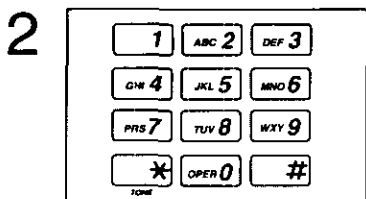
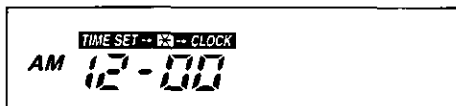
# Setting time

Make sure that the handset is in the cradle, the AC adaptor is connected and the SP-PHONE indicator light goes out.



Press the CLOCK button.

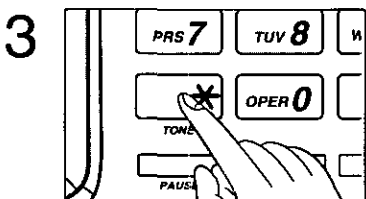
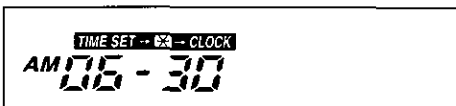
– “**TIME SET -- 00 -- CLOCK**” is displayed to show the unit is in the CLOCK adjust mode.



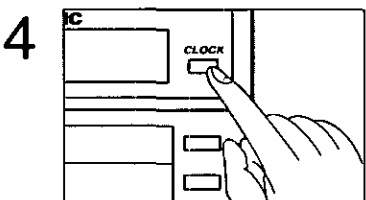
Enter the current time (hour and minute) by using 4-digit number.

Example:

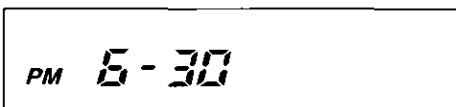
To set the time “6:30”, enter “0630”.



Press “\*” to select “AM” or “PM” on the display.



Press the CLOCK button to end the CLOCK adjust mode.



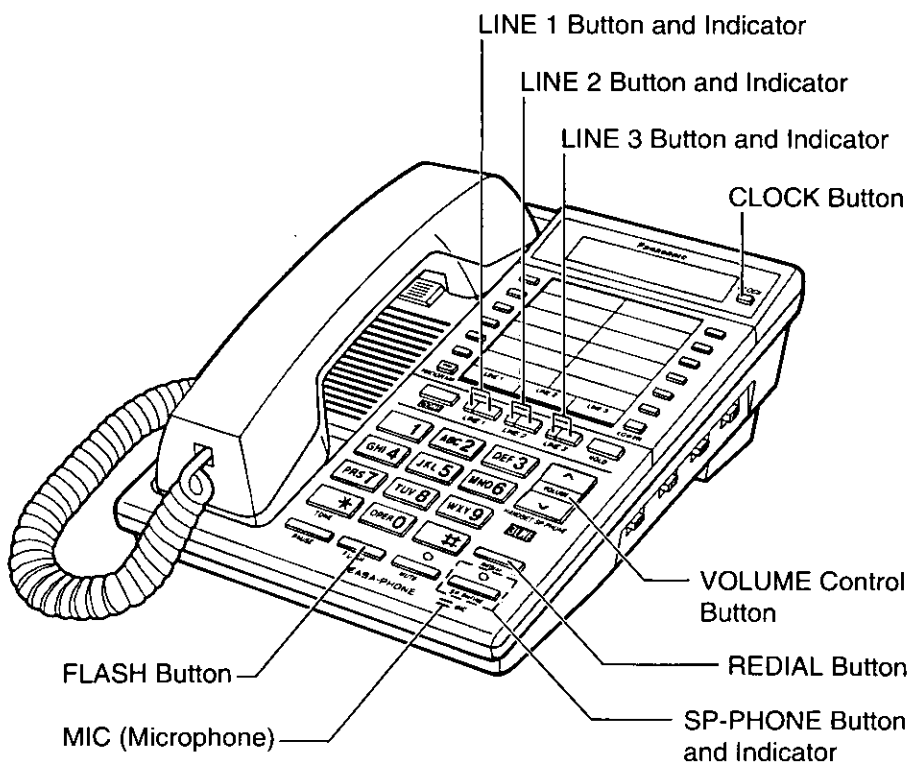
## Note:

- During a power failure, the retention of the programmed time is approximately 15 minutes.
- The accuracy of the clock is approximately  $\pm 45$  seconds a month at room temperature.

# Making calls

When you lift the handset or press the SP-PHONE button the free line will be selected automatically. To change the line selection mode, see page 31.

The AC adaptor must remain connected.



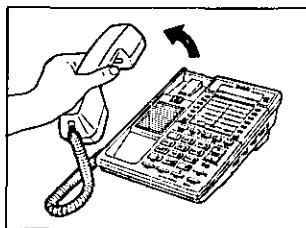
## Note:

- You can make or answer a second call on the other line with keeping the present call on hold. (See page 25.) Making (Receiving) a call with keeping two calls on hold is also possible. (See page 26.)
- Each line indicator works as listed below:

|                        |                                    |
|------------------------|------------------------------------|
| Off                    | Line is free                       |
| Flashing quickly (red) | Receiving an incoming call (p. 18) |
| On (green)             | The line is selected               |
| On (red)               | The line is already in use         |
| Flashing (green)       | Call is on hold (p. 25)            |

# Making calls with the handset

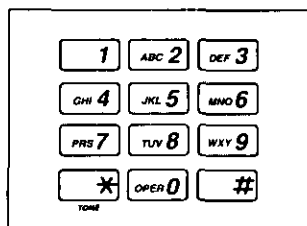
1



Lift the handset.

- The idle line is selected automatically and the line indicator lights green.

2



Dial a telephone number.

- The dialed number is displayed.

3

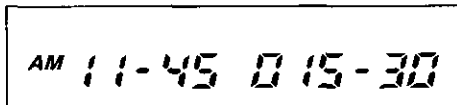


Speak to the other party.

- The call duration is displayed.

Example:

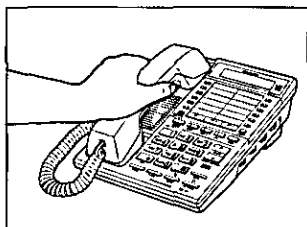
You have been talking for 15 minutes  
30 seconds.



To change the display to the dialed number, press the CLOCK button.

- During the conversation you can switch to speakerphone call by pressing the SP-PHONE button. You may place the handset in the cradle.

4



When you have finished, place the handset in the cradle.

- The line indicator light goes out.

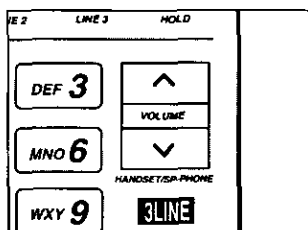
**Note:**

- The line 1 will be selected if it is idle, but if it is engaged, the line 2 will be selected. If both line 1 and 2 are engaged, the line 3 will be selected. If all the lines are engaged, the line 1 will be selected. You may select the line by directly pressing a line button before lifting the handset.
- Depressing the CLOCK button during the conversation changes the display from the call duration to the dialed number alternately.
- If the unit is programmed to select no line, pressing a line button is necessary after lifting the handset. (See page 31.)

## To adjust the handset receiver's volume

You can adjust the volume level of the handset receiver using the VOLUME control button during a conversation.

3 levels are available (High, Rather high and Normal).



To increase the volume, press .  
To decrease the volume, press .

- The number of " " indicates the relative volume level.

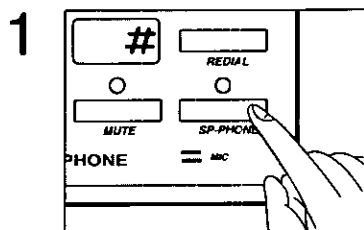
: High level

: Rather high level

: Normal level

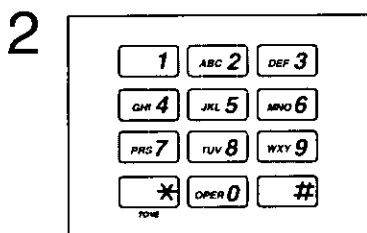
- After hanging up, the selected volume level is maintained.

# Making calls with the speakerphone



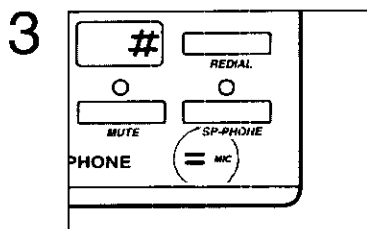
Press the SP-PHONE button.

- The idle line is selected automatically and the SP-PHONE indicator light is on.



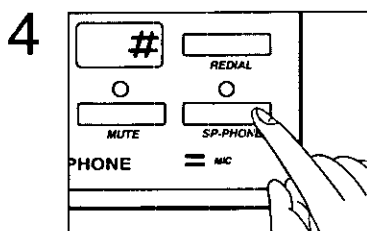
Dial a telephone number.

- The dialed number is displayed.



Speak to the other party through the MIC (Microphone).

- The call duration is displayed. To change the display to the dialed number press the CLOCK button.
- To switch to the handset call, lift the handset.



When you have finished, press the SP-PHONE button.

- The line indicator and the SP-PHONE indicator lights go out.

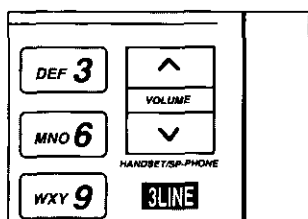
## Note:

- You may press a line button directly at step 1 instead of the SP-PHONE button to select a line and the speakerphone turns on automatically. If the unit is programmed to select no line, this procedure is required. (See page 31.)
- During a power failure the speakerphone does not function.



## To adjust the speaker volume

You can adjust the volume level of the speaker using the VOLUME control button during a conversation. 12 levels are available.



To increase the volume, press .  
To decrease the volume, press .

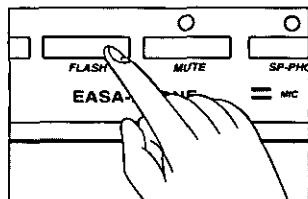
– The number of “” indicates the relative volume level, with the highest level having 12 “”.

– After hanging up, the selected volume level is maintained.

### Helpful hints for the speakerphone operation:

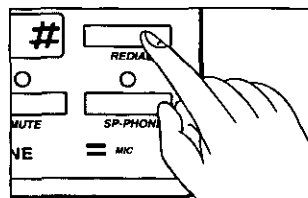
- Use the speakerphone in a quiet room for best performance.
- If the other party has difficulty hearing you, decrease the volume.
- If you and the other party speak at the same time, parts of your conversation will be lost. To avoid this, speak alternately.

## If you misdial



Press the FLASH button firmly.  
The dial tone is heard, then dial the correct number.

## To redial



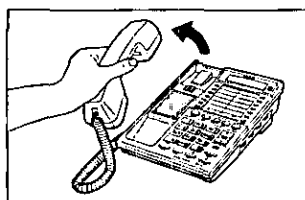
Press the REDIAL button.

**When using the handset**, the unit redials the last dialed number once.

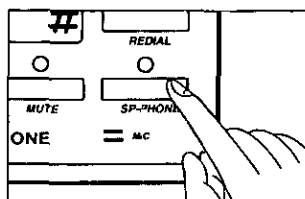
**When using the speakerphone**, the unit redials the last dialed number up to 15 times within a 10-minute period if the line is busy. (Automatic redial)

# Answering calls

When the telephone rings, there is an incoming call on the line and the line indicator flashes red.



OR



Lift the handset or press the SP-PHONE button to answer the call.

- The line is selected and the line indicator changes to steady green light.
- The call duration is displayed.
- When you have finished, replace the handset or press the SP-PHONE button.

## Note:

- If a RINGER selector of each line is in the OFF position, "**L1 RINGER OFF**" or "**L2 RINGER OFF**" or "**L3 RINGER OFF**" is displayed. Set to the HIGH or the LOW position.
- If the unit is programmed to select no line or one specific line, you need to press the line button whose indicator is flashing red. (See page 31.)
- For helpful hints for speakerphone operation, see page 17.

# Automatic dialing

You can store up to 24 phone numbers most frequently dialed into memory. (12 numbers for upper memory stations, 12 numbers for lower memory stations)

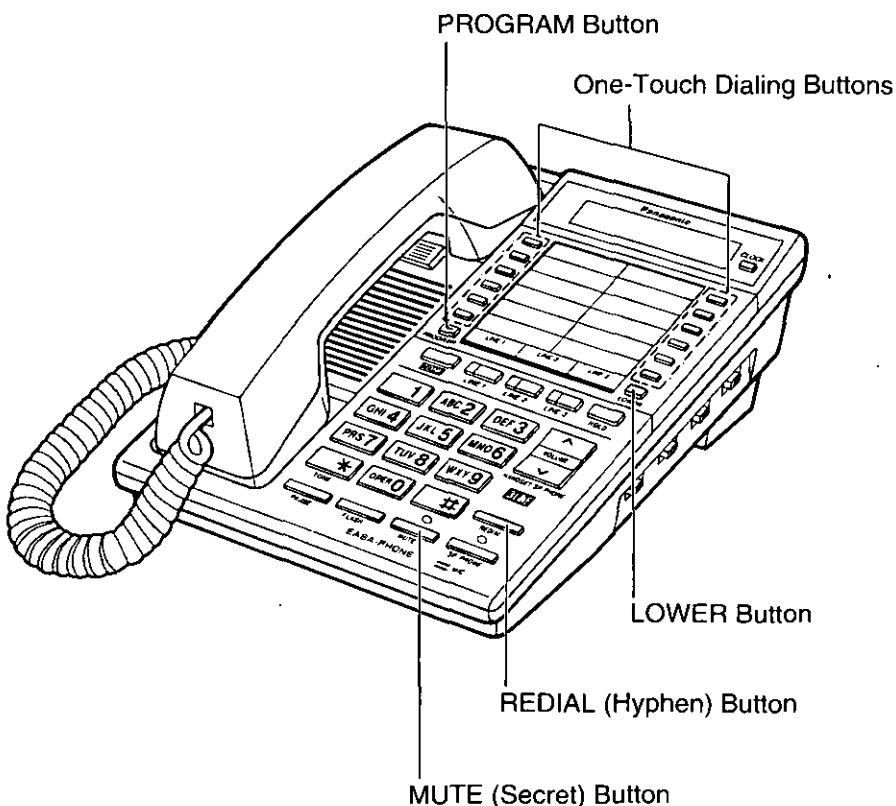
The stored number is dialed automatically by pressing a one-touch dialing button.

## Storing phone numbers into memory

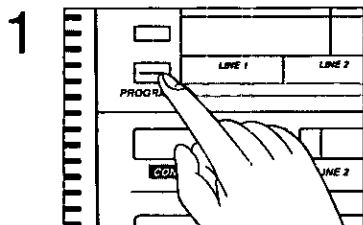
### CAUTION:

Please do not press any buttons of "automatic dialer" before programming. This is to prevent misoperation of auto dialer function.

Each memory station is capable of storing up to a 16-digit phone number. Be sure that the handset is in the cradle, the AC adaptor is connected and the SP-PHONE indicator light goes out.

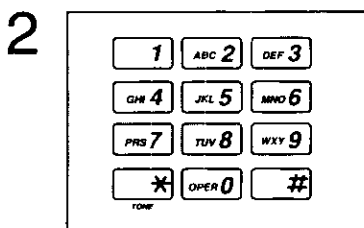
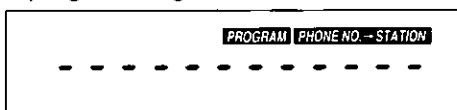


## Into UPPER memory stations



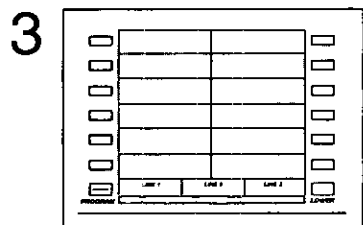
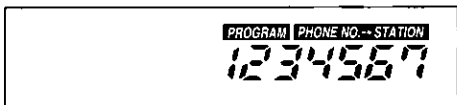
Press the PROGRAM button.

- "PROGRAM" and "PHONE NO. - STATION" are displayed to show the unit is in the programming mode.



Enter the phone number to be stored up to 16 digits.

- The entered number is displayed. (Example: 1234567)



Press a one-touch dialing button to select the memory station.

- A beep sounds and the number is stored.

**OR**

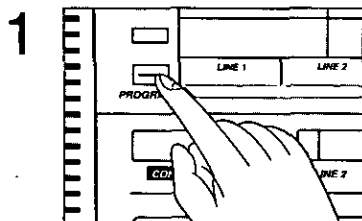
Two beeps sound when the same number is already stored.

- To store other numbers, repeat steps 1 through 3.

### Note:

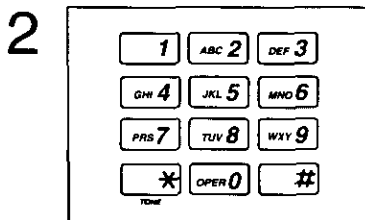
- If you misdial, press the PROGRAM button to end the programming mode, then start from step 1 again to store the correct number.
- A "PAUSE" or a "FLASH" can be stored with a phone number counting as one extra digit. (See page 29.)
- A "\*" or a "#" can be stored with a phone number counting as two extra digits. (See page 28.)
- Pressing the REDIAL button during storing inserts a hyphen in a phone number.
- You can keep storing phone numbers including confidential ones. (See page 22.)
- If the AC adaptor is disconnected more than 30 minutes, the stored numbers should be confirmed again before dialing.

## Into LOWER memory stations



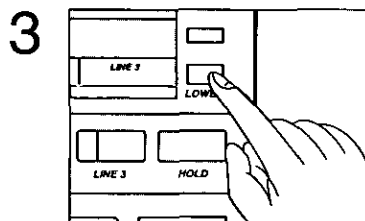
Press the PROGRAM button.

– “PROGRAM” and “PHONE NO.--STATION” are displayed to show the unit is in the programming mode.



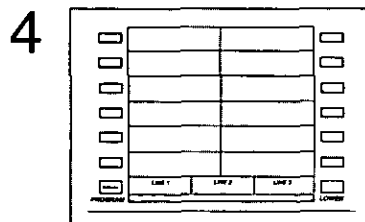
Enter the phone number to be stored up to 16 digits.

– The dialed number is displayed.



Press the LOWER button to select the lower memory location.

– “LOWER” is displayed.



Press a one-touch dialing button to select the memory station.

– A beep sounds and the number is stored.

**OR**

Two beeps sound when the same number is already stored.

– To store other numbers, repeat steps 1 through 4.

### Note:

– If you misdial, press the PROGRAM button to end the programming mode, then start from step 1 again to store the correct number.

## To store confidential numbers using the secret button feature

You can keep stored phone numbers confidential by using the secret button's feature. The confidential numbers will not display when dialing. **The MUTE button is used as the Secret button when storing phone numbers.**

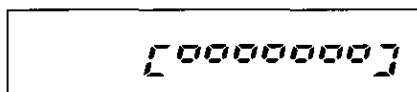
**Example:** To make all the digits of the phone number secret.

1. Press the PROGRAM button.
2. Press the MUTE (Secret) button.
3. Enter the phone number to be stored.
4. Press the MUTE (Secret) button.
5. Press a one-touch dialing button.

### Note:

- Pressing the MUTE (Secret) button once counts as one digit.
- If you want to insert the hyphenation in the phone number, press the REDIAL (Hyphen) button while storing.
- When dialing the stored number is not displayed.

The display shows:



(Example: The stored number is 7digits.)

## To confirm a stored number

Store the phone number which you want to confirm into the same memory station. You will hear one or two beeps.

**2 beeps:** The newly stored number is the same as the previously stored one.

**1 beep:** The newly stored number is different from the previously stored one.

## To erase a stored number

1. Press the PROGRAM button.
2. **If the number is located in the UPPER memory station:**  
Press the one-touch dialing button for the phone number to be erased.  
**OR**  
**If the number is located in the LOWER memory station:**  
Press the LOWER button, then press the one-touch dialing button.

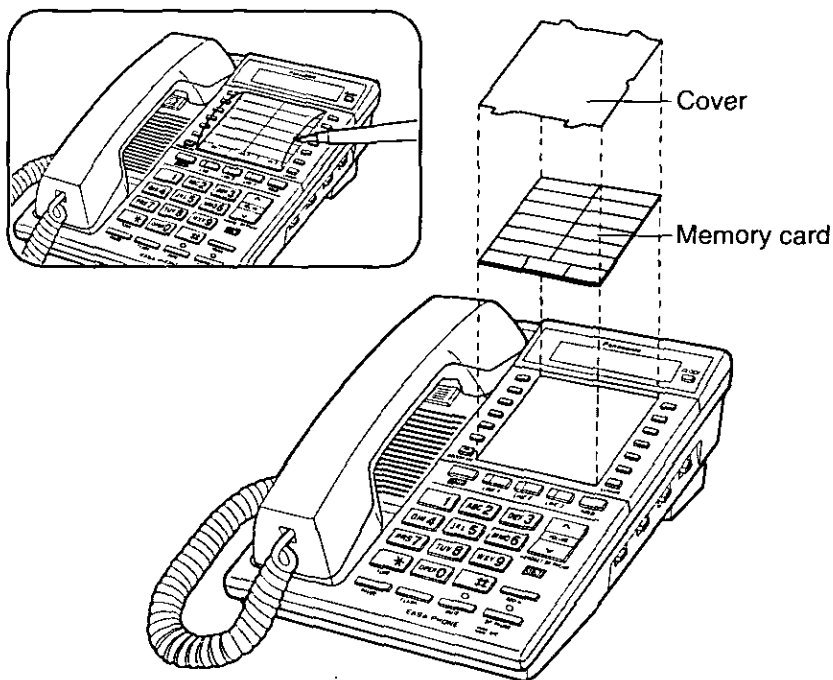
## “Full one-touch dialing” programming

This feature enables the speakerphone to turn on automatically by pressing one of the one-touch dialing buttons. You can program this feature “ON” or “OFF”. If set to “OFF”, you must first lift the handset or press either the SP-PHONE or LINE button before pressing one-touch dialing buttons. The initial setting is “ON”.

1. Press the PROGRAM button.
2. Press the HOLD button.
3. Press the MUTE button.
4. Dial “1” or “2”.  
1 ..... ON                      2 .....OFF

## Memory card

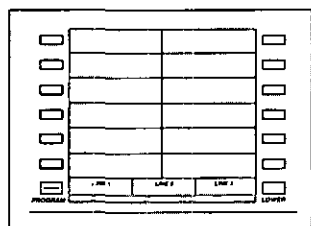
Pull out the memory card and write down the names or phone numbers associated with automatic dialing.



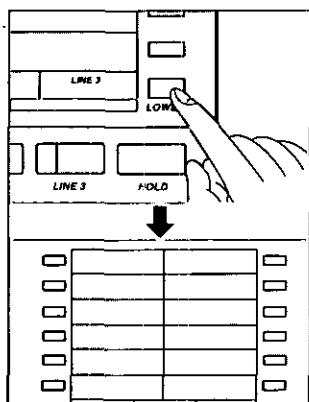
# Dialing a stored number from memory

(Full one-touch dialing)

1



OR



## Using the UPPER memory station:

Press the one-touch dialing button where the phone number you want to dial is stored.

- The SP-PHONE turns on automatically, the line is selected and the stored number is dialed.

OR

## Using the LOWER memory station:

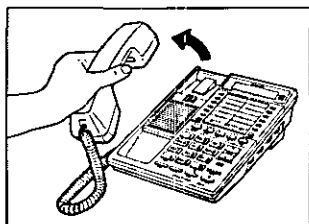
Press the LOWER button.

- The SP-PHONE turns on automatically and the line is selected.

Press the one-touch dialing button where the phone number you want to dial is stored.

- The stored number is dialed.

2



Lift the handset to switch to handset call.

- If you continue speakerphone call, you need not lift the handset. Speak through the MIC.

## Note:

- AC adaptor must remain connected.
- The accessing line will be selected by programming. (See page 31.)
- If the unit is programmed to select no line, you need to press the line button firstly before pressing a one-touch dialing button.
- When the accessing line is engaged or an incoming call is accessing the line, Full one-touch dialing is not available.



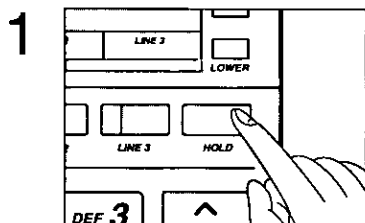
# Using the other line(s) during a conversation

## To make (receive) a call with keeping the present call

While having a conversation on one line, if the other line indicator begins flashing, an incoming call is arriving on the line.

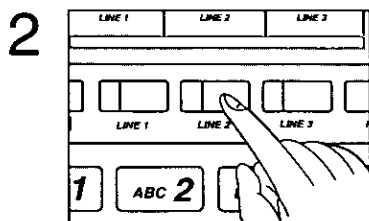
You can answer the second call with keeping the first call.

Making a call without ending the first call is also possible.



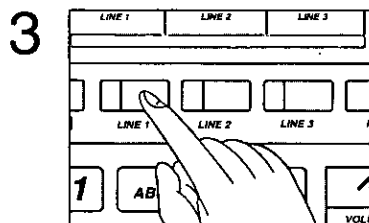
**Example: If you are using LINE 1**  
Press the HOLD button to put the first call (LINE 1) on hold.

– The line indicator changes from steady to flashing green light.



Press the other line button (LINE 2 or LINE 3) to make or answer the second call.

– The line indicator lights green.



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

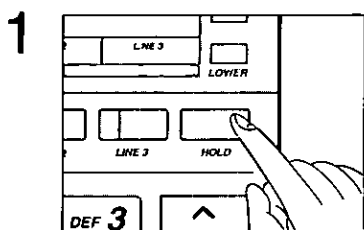
– The line indicator changes from flashing to steady green light, then the second call is terminated.

### Note:

- If you want to keep the second call on step 3, press the HOLD button then, press the line button of the first call.
- During a power failure the hold feature does not function.
- When another call is arriving during a conversation, the bell does not ring. To set the incoming call tone, see page 29 for programming. Two tones sound every 15 seconds to alert you of the call.

# To make (receive) a call with keeping the two calls

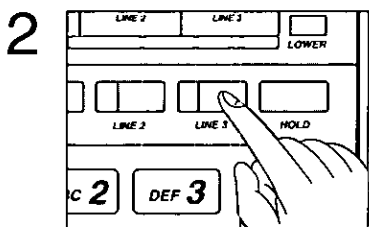
Even if you are having a conversation on the second line with putting the first line on hold, you can make or receive the new call on the third line.



**Example: If you are having conversation on LINE 2 with putting LINE 1 on hold**

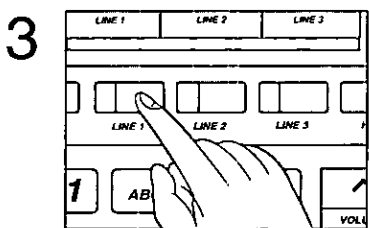
Press the HOLD button to put the second call (LINE 2) on hold.

– The line indicator changes from steady to flashing green light.



Press the line button (LINE 3) to make or answer the third call.

– The line indicator lights green.



To return to the first (second) call, press the line button of the first (second) call.

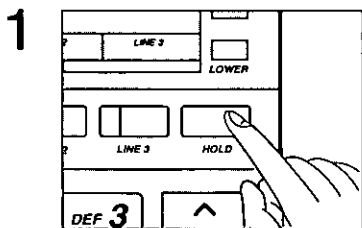
– The line indicator changes from flashing to steady green light, then the third call is terminated.

## Note:

– If you want to keep the third call on step 3, press the HOLD button, then press the line button of the first (second) call.

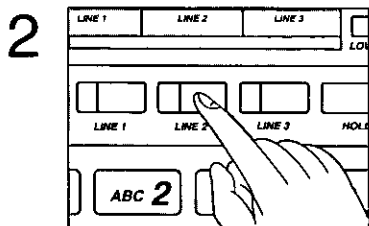
# Conference

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



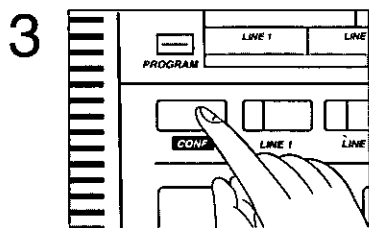
**Example: If you are using LINE 1**  
Press the HOLD button to put the first call (LINE 1) on hold.

- The line indicator changes from steady to flashing green light.



Press the other line button (LINE 2 or LINE 3) to make or answer the second call.

- The line indicator lights green.



When the second call is connected, press the CONF (Conference) button to establish a conference call.

- Both line indicators light green.

## To hang up both lines:

Place the handset in the cradle or press the SP-PHONE button.

## To hang up one line only:

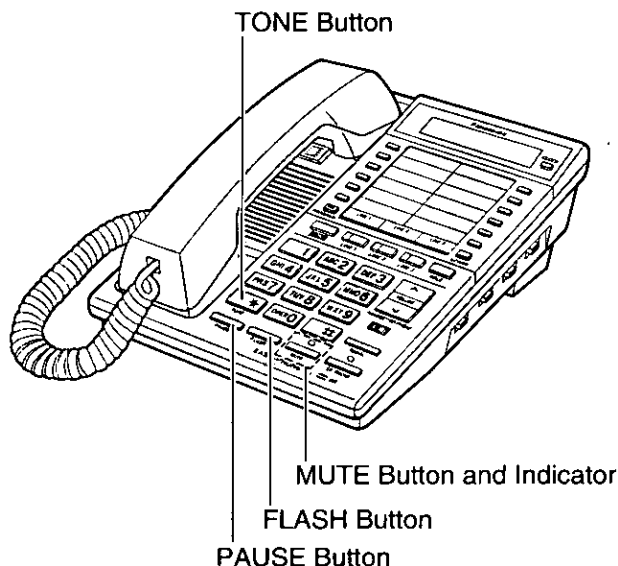
Press the line button of the call you want to continue the conversation.

## Note:

- During a power failure the conference feature does not function.

# Other features

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## Temporary tone dialing

If your line has rotary service, pressing the TONE ( $\star$ ) button allows you to change the dialing mode temporarily into tone. Then you can dial the numbers or codes needed to operate the answering system or to use electronic banking services and other special services.

When you hang up, the dialing mode returns to pulse automatically.

## PAUSE button (For PBX users)

If your unit is connected to a PBX, you need to dial an access number (usually 9) to get an outside line. In this case, inserting a pause between the access number and the phone number is necessary, especially when redialing or storing the number into memory.

Press the PAUSE button to make a dialing delay in dialing sequence.

## MUTE button

The MUTE button allows you to make your voice mute by the other party. You can hear the other party, but the other party cannot hear you.

Press the MUTE button.

The MUTE indicator light is on.

To resume the conversation, press the MUTE button again.

## FLASH button

If you misdial or dial another phone number, press the FLASH button firmly. The call is terminated and the dial tone is heard, then you can dial the next phone number.

If your unit is connected to a PBX, pressing the FLASH button lightly allows you to use special features of the PBX such as transferring an extension call.

## Using call waiting feature

To use this feature, you are required to subscribe to call waiting service offered by your local telephone company.

1. While having a conversation, another party calls and you hear a tone.
2. Press the FLASH button lightly.

The first call is put on hold and you can answer the second call. To return to the first caller, press the FLASH button again. The second call is put on hold.

## Incoming call tone programming

Incoming call tone alerts you that another call is arriving. Two tones sound every 15 seconds when another call is arriving during a conversation. You can set the tone by programming.

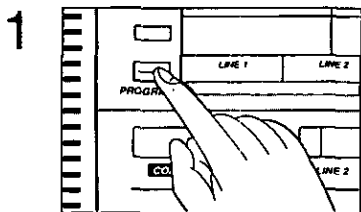
1. Press the PROGRAM button.
2. Press the HOLD button, then dial "0".
3. Dial "1" or "2".
  - 1 .....ON
  - 2 .....OFF

### **Note:**

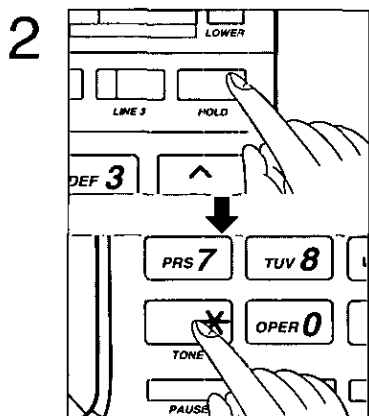
- When a RINGER selector is in the OFF position, the incoming call tone will not sound for that line.

# Line indicator programming

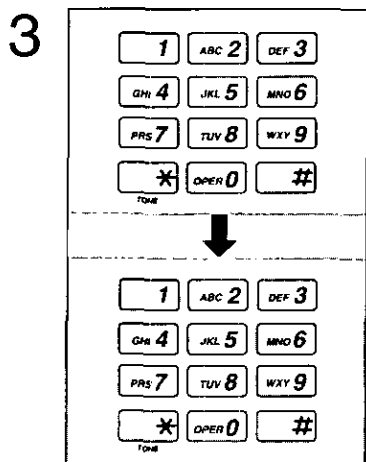
This unit can be connected to three telephone lines. If only one or two telephone lines are connected, unconnected line's indicator will remain lit. To turn off the indicator the following programming is necessary. If you use the unit as a three line telephone the programming is not necessary. All the line indicators are set to ON position initially.



Press the PROGRAM button.



Press the HOLD button, then press “\*”.



Enter the dialing button “1”, “2” or “3” to select the line.

1: Line 1

2: Line 2

3: Line 3

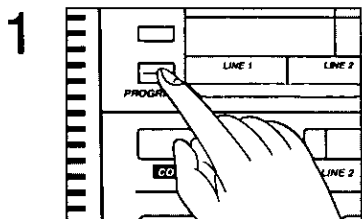
If the line is connected to C.O.L.(Central office line), press “1” (ON) to activate the indicator.

**OR**

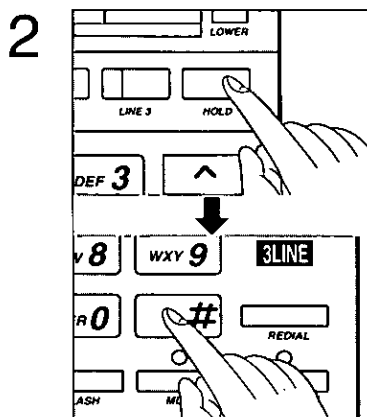
Unless the line is connected to C.O.L., press “2” (OFF) to deactivate the indicator.

# Line selection mode programming

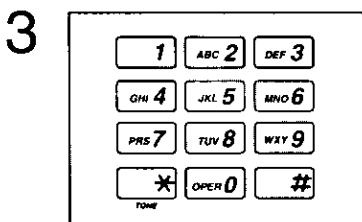
The unit select the free line when you lift the handset or press the SP-PHONE button, and the line an incoming call is arriving automatically. To change the line selection, the following program is required.



Press the PROGRAM button.



Press the HOLD button, then press "#".



Press the dialing button "0", "1", "2", "3" or "4" to select the desired line selection mode.

- 1: The line 1 will be selected.
- 2: The line 2 will be selected.
- 3: The line 3 will be selected.
- 4: The free line will be selected (Line 1 has a priority.) when making a call or the line an incoming call is arriving will be selected.
- 0: No line will be selected.

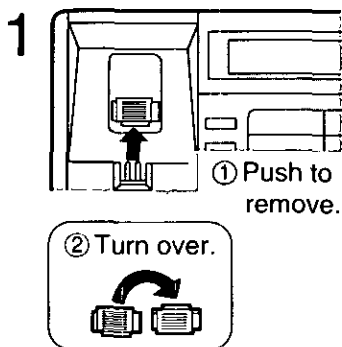
## Note:

– The accessing line will be selected by the programming, but any line will be selected by pressing the line button directly before lifting the handset or pressing the SP-PHONE button.

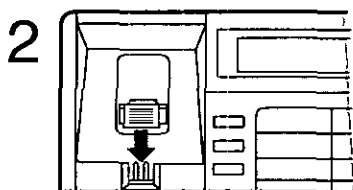
# Wall mounting

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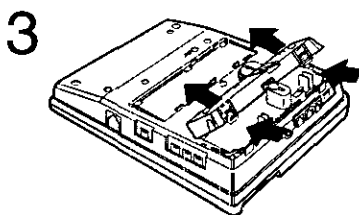
This unit can be mounted on a wall phone plate. If you do not have one installed, consult your telephone company or an installer.



Remove the handset guide from the unit, then turn it over.



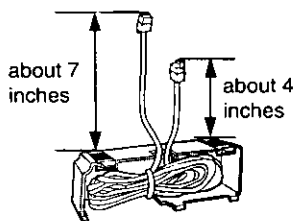
Replace the handset guide with making its tab upward.



Remove the wall mounting adaptor from the bottom of the unit.

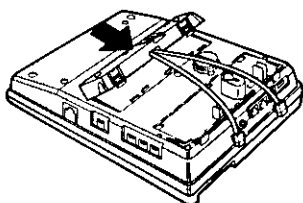


4



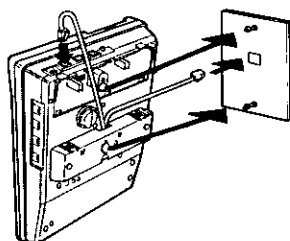
Tuck the telephone line cord inside the wall mounting adaptor.

5

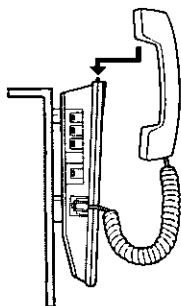


Insert the tabs of the wall mounting adaptor into the openings of the unit, then push it in the direction of the arrow. (The word "UP" on the adaptor should be upward.)

6



Connect the telephone line cord to the unit and to the wall-jack on the wall phone plate. Mount the unit on the wall phone plate, then seat securely by hooking as shown.



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

# Troubleshooting guide ---

## **The unit does not ring.**

- The RINGER selectors are set to the OFF position.  
Set to the HIGH or the LOW position. (See page 10.)

## **The unit does not work.**

- The connection of the unit has been made improperly. (See pages 7, 8, 9.)
- Make sure that the AC adaptor is connected.

## **The unit cannot store phone numbers into memory.**

- Confirm the handset is in the cradle and the SP-PHONE indicator light goes out.
- Do not pause for over 60 seconds while storing.
- Make sure that the AC adaptor is connected.

## **While storing a phone number, the unit starts to ring.**

- You can talk to the caller by simply lifting the handset.  
The program is canceled, then store the phone number again.

## **While operating the unit, the AC adaptor feels warm.**

- This is a normal condition.

## **The hold and the conference features do not function.**

- A power failure has occurred.
- Make sure that the AC adaptor is connected.

## **The SP-PHONE button cannot be used.**

## **The clock is dead.**

## **Full one-touch dialing does not function.**

## **The LCD display does not work.**

- Make sure that the AC adaptor is connected.

## **The line indicators do not work properly.**

- The connection of the telephone lines or the programming of the line indicators is made improperly. (See pages 8, 9, 30.)
- The setting of the LINE MODE selectors is wrong. (See page 11.)
- Make sure that the AC adaptor is connected.

## **While having a conversation, the other line indicator flashes red.**

- An incoming call is arriving on the other line. To answer it, press the HOLD button to put the current call on hold, then press the line button whose indicator is flashing red. To return to the first call, press the line button of the first call. (See page 25.)

# Important Safety Instructions

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

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bath tub, wash bowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
  - A. When the power supply cord or plug is damaged or frayed.
  - B. If liquid has been spilled into the unit.
  - C. If the unit has been exposed to rain or water.

- D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
- E. If the unit has been dropped or physically damaged.
- F. If the unit exhibits a distinct change in performance.
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.
- **Environment** — do not place the unit in room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
  - **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you left the unit unused for long time, unplug the AC adaptor from the outlet.
  - **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult with your telephone company.

## SAVE THESE INSTRUCTIONS

### **WARNING:**

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

# FCC and other information

If requested by the telephone company, inform them as follows:

- FCC Registration No.  
(found on the bottom of the unit)
- Facility Interface Code...02LS2
- Service Order Code....9.0F
- Required Network Interface Jack....RJ11,RJ14 or RJ25
- Ringer Equivalence....0.2B  
Ringer Equivalence(Under a power failure)....1.0B
- The particular telephone lines to which the equipment is connected.

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

## **Ringer Equivalence No.**

### **(REN):**

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

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

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

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

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

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

**CAUTION:**

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

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

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

**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.



## For product service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-545-2672 for the location of an authorized servicenter.

## When you ship the product

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

Symptom

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

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

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



# Panasonic

## PRODUCT INFORMATION · OPERATION ASSISTANCE · LITERATURE REQUESTS · DEALER LOCATIONS

Customer Satisfaction Center 2F-3, One Panasonic Way, Secaucus, NJ 07094 (Headquarters)  
201-348-9090 (9:00am-8:00pm Monday-Friday, EST)

## ACCESSORY PURCHASES

1-800-332-5368 (Consumer Orders Only)  
Matsushita Services Company 20421 84th Avenue South Kent, WA 98032  
(6 am to 6 pm Monday-Friday; 6 am to 10:30 am Saturday; PST)  
(Visa, Mastercard, Discover card, American Express, Check)

## AUTHORIZED SERVICENTERS · PARTS DISTRIBUTOR LOCATIONS

To locate an independent authorized servicer or parts distributor in your area, within the USA dial toll free  
1-800-545-2672, 24 hours a day, 7 days a week.

## PRODUCT REPAIRS Factory Servicenters

### CALIFORNIA

6550 Katella Avenue  
Cypress, CA 90630  
Phone (714) 373-7425  
Fax (714) 894-8534

800 Dubuque Avenue  
S. San Francisco,  
CA 94080  
Phone (415) 871-6371  
Fax (415) 871-6840

20201 Sherman Way  
Suite 102  
Canoga Park, CA 91306  
Phone (818) 709-1775  
Fax (818) 709-2165

3878 Ruffin Road Suite A  
San Diego, CA 92123  
Phone (619) 560-9200  
Fax (619) 560-1831

### COLORADO

1640 South Abilene Suite D  
Aurora, CO 80012  
Phone (303) 752-2024  
Fax (303) 752-0610

### FLORIDA

3700 North 29th Avenue  
Suite 102  
Hollywood, FL 33020  
Phone (954) 925-2880  
Fax (954) 925-5224

4710 Eisenhower  
Boulevard Suite A1  
Tampa, FL 33634  
Phone (813) 884-4746  
Fax (813) 886-4564

### GEORGIA

8655 Rosewell Road  
Suite 100  
Atlanta, GA 30350  
Phone (770) 518-6301  
Fax (770) 518-6306

### HAWAII

99-859 Iwaiwa Street  
Aiea, Hawaii 96701  
Phone (808) 488-1996  
Fax (808) 486-4369

### ILLINOIS

\*1703 North Randall Road  
Elgin, IL 60123  
\*12:30 to 4:30, Mon-Fri\*  
Phone (847) 468-5464  
Fax (847) 468-5465

9060 Golf Road  
Niles, IL 60714  
Phone (847) 608-1010  
Fax (847) 299-1710

### MARYLAND

Sulphur Springs  
Business Park  
1638 Sulphur Springs  
Road  
Baltimore, MD 21227  
Phone (410) 242-2607  
Fax (410) 247-3047

### MASSACHUSETTS

60 Glacier Drive Suite G  
Westwood, MA 02090  
Phone (617) 329-4280  
Fax (617) 329-0586

\*pick-up/drop-off only

### MICHIGAN

37048 Van Dyke Avenue  
Sterling Heights, MI 48312  
Phone (810) 939-2060  
Fax (810) 939-2638

### MINNESOTA

7850-12th Avenue South  
Airport Business Center  
Bloomington, MN 55425  
Phone (612) 854-8624  
Fax (612) 854-2089

### OHIO

2236 Waycross Road  
Cincinnati, OH 45240  
Phone (513) 851-4180  
Fax (513) 851-8443

### PENNSYLVANIA

2221 Cabot Boulevard  
West Suite B  
Langhorne, PA 19047  
Phone (215) 741-0661  
Fax (215) 741-0521

Chartiers Valley  
Shopping Center  
1025 Washington Pike  
Bridgeville, PA 15017  
Phone (412) 257-4522  
Fax (412) 257-4650

### TENNESSEE

919-8th Avenue South  
Nashville, TN 37203  
Phone (615) 244-4434  
Fax (615) 244-6713

### TEXAS

7482 Harwin Drive  
Houston, TX 77036  
Phone (713) 781-1528  
Fax (713) 781-0643

13615 Welch Road  
Suite 101 Farmers Branch,  
TX 75244  
Phone (214) 385-1975  
Fax (214) 960-7626

### WASHINGTON

20425-84th Avenue South  
Kent, WA 98032  
Phone (206) 872-7922  
Fax (206) 872-0918

### Service in Puerto Rico

Matsushita Electric  
of Puerto Rico, Inc.  
Panasonic Sales  
Company/  
Factory Servicenter  
Ave. 65 de Infanteria,  
Km. 9.5 San Gabriel  
Industrial Park  
Carolina, Puerto Rico 00985  
Phone (809) 750-4300  
Fax (809) 768-2910

## REPAIR INQUIRIES Regional Customer Care Department

### EAST (PCE)

2221 Cabot Boulevard  
West Suite A  
Langhorne, PA 19047  
Phone (215) 741-0676  
Fax (215) 750-6492

### Covers:

CT, DE, ME, MD, MA,  
NH, NJ, NY, PA, RI, VT,  
VA, DC, WV

### EAST (PCE)

1225 Northbrook  
Parkway  
Suite 2-390  
Suwanee, GA 30174  
Phone (404) 338-6860  
Fax (404) 338-6548

### Covers:

AL, FL, GA, MS, NC, SC,  
TN

### CENTRAL (PCC)

1707 North Randall Road  
Elgin, IL 60123  
Phone (847) 468-5530  
Fax (847) 468-5528

### Covers:

AR, IL, IN, IA, KS, KY, LA,  
MI, MN, MO, NE, ND, OK,  
SD, TX, WI, OH

### WEST (PCW)

6550 Katella Avenue  
Cypress, CA 90630  
Phone (714) 373-7440  
Fax (714) 373-7447

### Covers:

AK, AZ, CA, CO, ID, MT,  
NV, NM, OR, UT, WA,  
WY, HI

# PANASONIC

## Telephone Products

### Limited Warranty

Matsushita Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico for one (1) year from the date of original purchase in the event of a defect in materials or workmanship.

**This Limited Warranty Excludes both Labor and Parts for:** batteries, antennas, and cosmetic parts (cabinet).

Carry-in or mail-in service in the USA or Puerto Rico can be obtained during the warranty period by contacting a Matsushita Services Company (MSC) Factory Servicenter listed in the Servicenter Directory. Or call, toll free, 1-800-545-2672 to locate a MSC authorized Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the local telephone number in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use. The warranty 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 accident, misuse, abuse, neglect, mishandling, faulty installation, misapplication, set-up adjustments, improper operation or maintenance, alteration, modification, introduction of sand, humidity or liquids, line power surge, improper voltage supply, lightning damage, signal reception problems, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or serviced by anyone other than a MSC Factory Servicenter or a MSC authorized Servicenter, or damage that is attributable to acts of God.

#### **LIMITS AND EXCLUSIONS**

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. 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 above exclusions or limitations may not apply to you.

This 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 warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the company address indicated above.