

Panasonic

900MHz Cordless Phone

Model No.

KX-TC1481B

Pulse-or-tone dialing capability

Operating Instructions



Caller ID Compatible

PLEASE READ BEFORE USE AND SAVE.

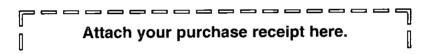
Charge the battery for about 15 hours before initial use.

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

Please read IMPORTANT SAFETY INSTRUCTIONS on page 34 before use. Read and understand all instructions.

Thank you for purchasing your new Panasonic cordless telephone.

Caller ID and Call Waiting Service, where available, are telephone company services. After subscribing to Caller ID, this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting.



For your future reference

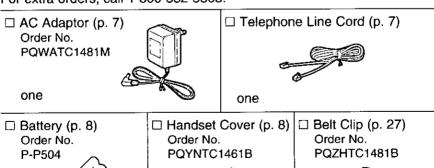
Serial No.

(found on the bottom of the unit)

Name and address of dealer

Accessories (included)

For extra orders, call 1-800-332-5368.



one

one

2

one

For Best Performance

Battery Charge

A rechargeable Ni-Cd battery powers the handset. Charge the battery for about **15 hours** before initial use (p. 8).

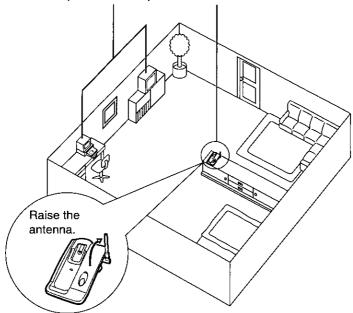


Base Unit Location

Calls are transmitted between the base unit and the handset using wireless radio waves. For maximum distance and noise-free operation, the recommended base unit location is:

Away from electrical appliances such as a TV or personal computer.

In a HIGH and CENTRAL location with no obstructions such as walls.

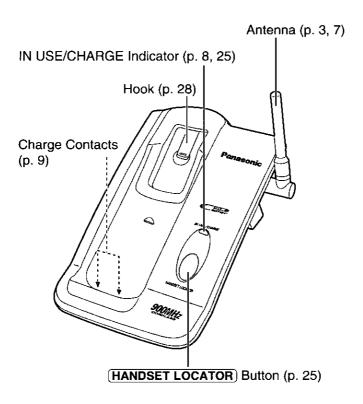


Contents

Preparation	Advanced Operation
Location of Controls 5	Phonebook20
Settings 7 Connections 7 Installing the Battery 8 Battery Charge 8 Ringer Volume 9	Storing Names and Numbers
Programmable Functions 10	Editing
Display Language 10 Dialing Mode 10	Erasing 24
D	Special Features
Besic Operiion	Setting25
	Handset Locator25
Making Calls 11	Temporary Tone Dialing (For Rotary or Pulse Service
Answering Calls 12	Users)
Caller ID Service13Viewing the Caller List15Calling Back from the Caller17Editing the Caller's Phone17	How to Use the PAUSE Button (For Analog PBX Line/Long Distance Service Users) 26 For Call Waiting Service Users
Storing Caller List Information in the Phonebook	Useful Information
Erasing Caller List Information19	Belt Clip27
momator	Optional Headset 27
	Wall Mounting28
	Adding Another Phone 29
	Battery Replacement 30
	Troubleshooting 31
	Important Safety Instructions34
	FCC and Other Information 36
	Index 38

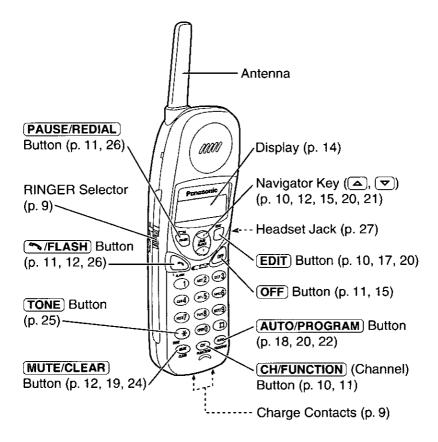


Base unit



> Location of Controls

Handset



How to use the Navigator key

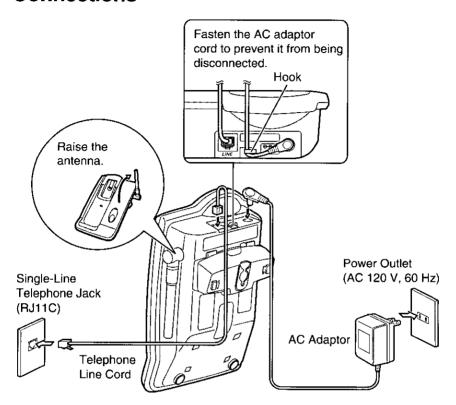
This key has two active areas that are indicated by arrows.



- Pressing the up or down arrow
 - -enters into the Caller List,
 - -selects the function items,
 - scrolls through your phonebook and the Caller List, and
 - -adjusts the receiver volume on the handset.

Throughout this Operating Instructions, the navigator key is indicated by the arrows \triangle or ∇ .

Connections



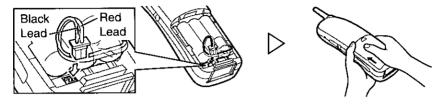
- •USE ONLY WITH Panasonic AC ADAPTOR PQWATC1481M (Order No. PQWATC1481M).
- •The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- •To connect a standard telephone on the same line, see page 29.
- off your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.

⇔ Settings

Installing the Battery

Install the battery and close the handset cover, locking it into place.

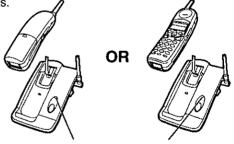
•Please do not put off the tape from the battery.



Battery Charge

Place the handset on the base unit and charge for about **15 hours** before initial use.

•The IN USE/CHARGE indicator lights.



IN USE/CHARGE Indicator

Recharge

Recharge the battery when:

- "RECHARGE" is displayed,
- --"**☎**" is displayed, or
- —the handset beeps intermittently while it is in use.

STANDBY RECHARGE ☎

Battery information

After your Panasonic battery is fully charged (p. 8):

Operation	Operating time
While in use (TALK)	Up to about 5 hours
While not in use (Standby)	Up to about 5 days

- •The battery operating time may be shortened depending on usage conditions, such as viewing the Caller ID Caller List or phonebook, and ambient temperature.
- •Clean the handset and the base unit charge contacts with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity. Otherwise the battery may not charge properly.
- olf the battery is fully charged, you do not have to place the handset on the base unit until "RECHARGE" and " are displayed. This will maximize the battery life.
- •The battery cannot be overcharged.

Standby Mode (While the handset is off the base unit)

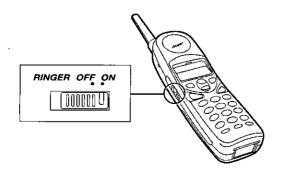
The handset goes into the standby mode after you finish using the handset (making/answering a call, viewing the Caller List or phonebook etc.). The display shows "STANDBY".

The battery operating time is conserved in this mode.

Ringer Volume

Set the RINGER selector to ON or OFF.

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



Programmable Functions

You can program the following function items using the handset near the base unit.

Make sure the unit is in the standby mode.

- •You can exit the programming mode any time by pressing OFF.
- olf you do not press any buttons for 60 seconds, the unit will return to the standby mode.

Display Language

You can select ENGLISH, SPANISH or FRENCH as the display language. Your phone comes from the factory set to ENGLISH. If you want to select the other language, program as follows:

- Press CH/FUNCTION.
 - The current setting is displayed.

SET LANGUAGE ENGLISH

Select "ENGLISH", "ESPANOL" or "FRANCAIS" by using \bigcirc or \triangle .

Ex. SPANISH is selected.

CAMBIAR IDIOMA

ESPANOL

- ? Press EDIT to save.
 - ·A beep sounds.
 - •The handset will return to the standby mode.

Dialing Mode

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.

Press CH/FUNCTION twice.

The current setting is displayed.

Select "PULSE" or "TONE" by using 🔻 or

SET DIAL MODE TONE

SET DIAL MODE PULSE

- Press (EDIT) to save.
 - A beep sounds.
 - •The handset will return to the standby mode.



Seste Operation

To have a hands-free conversation, connect an optional headset to the handset (p. 27).

- Press \(\bullet /FLASH\).
 - After a few seconds, the display will show the receiver volume.

CONNECTING

2 Dial a phone number.

•The dialed number is displayed.

TALK VOL .III 1112222

To hang up, press **OFF** or place the handset on the base unit.

- olf an alarm tone sounds in step 1, move closer to the base unit or place the handset on the base unit, and try again.
- •If additional dialing is necessary after using speed dialing functions such as phonebook dialing (p. 22) or REDIAL, wait until speed dialing is finished to continue further dialing. Otherwise, the unit may not dial properly.

If noise interferes with the conversation

Press (CH/FUNCTION) to select a clearer channel in the talk mode or move closer to the base unit.

To redial the last number dialed

Press (► /FLASH) ⇒ (PAUSE/REDIAL).

To dial after confirming the entered number

→ Dial a phone number.

olf you misdial, press (MUTE/CLEAR).

One digit is erased from the right. Dial the correct phone number.

3334444

Press \(\simpler\)/FLASH).

 After a few seconds, the display will show the receiver volume and phone number. CONNECTING

To hang up, press **OFF** or place the handset on the base unit.

To redial after confirming the last number dialed

Press PAUSE/REDIAL ⇒ \(\bullet\)/FLASH.

Making calls

To select the receiver volume

Press or while talking.

Each time you press △ or ♥, the volume level will change by 4 levels.

Ex. Receiver volume: level 4

TALK	VOL

To mute your conversation

Press (MUTE/CLEAR) while talking.

- o"MUTE" and the receiver volume are displayed.
- •The other party cannot hear you but you can hear them.

MUTE	VOL .

To resume the conversation

Press MUTE/CLEAR again.

Answering Calls

When a call is received, the unit rings. If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 13). If you do not subscribe to a Caller ID service, "INCOMING CALL" will be displayed. In order to view the Caller ID information, please wait until the second ring to answer a call.

Lift the handset off the base unit and press \(\bigcirc\sigms/\text{FLASH}\).

You can also answer a call by pressing any button except OFF (—Any Key Talk).

When an optional headset is connected (p. 27), make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

Backlit LCD display

The lighted handset display will stay on for a while after pressing a handset button.

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 after the first ring.

The unit can record information of up to 40 callers, including the date and time received, in the Caller List. When the 41st call is received, the first call is deleted.

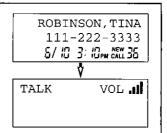
Using the list, you can automatically call back a caller. You can store the callers' numbers from the Caller List into the phonebook.

If you subscribe to a Call Waiting Caller ID Feature, when a second call is received while talking, the new caller's name, phone number and the date and time received will be displayed (p. 26).

How caller information is displayed when a call is received

The display shows the caller's name, phone number and the date and time received after the first ring.

After you answer the call, the display will show the receiver volume.



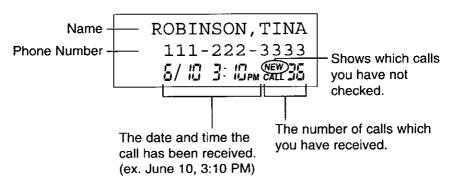


- •Caller information cannot be displayed in the following cases:
 - —If the caller dialed from an area which does not provide a Caller ID service, the display will show "OUT OF AREA".
 - —If the caller has requested not to display his/her information, the display will show "PRIVATE CALLER".
 - —If the Caller ID information is interfered with during reception, the display will show "ERROR".
- off your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.
- The name display service may not be available in some areas. For further information, please contact your telephone company.

To check the number of new calls

If you have received 10 new calls, the display will show the following:

What the display means





Viewing the Caller List

To check who has called, follow the steps below.

Make sure the unit is in the standby mode.

- Lift the handset off the base unit and press 🛡 or 🛆 to enter the Caller List.
 - •The display will show, for example, the following:

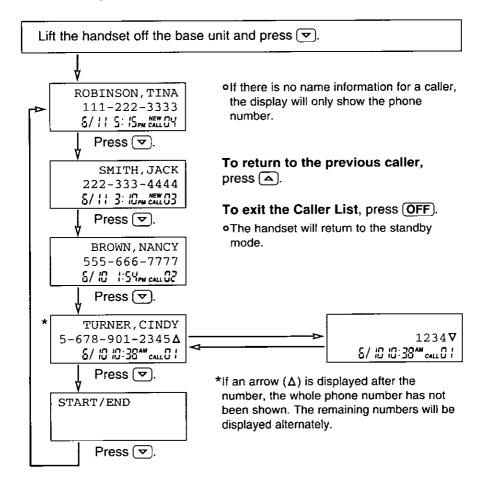
- To search from the most recent call, press ♥.

 To search from the oldest call, press ♠.

 oTo scroll between callers, press ♥ or ♠.
- To exit the list, press OFF.

 o2 beeps sound and the handset will return to the standby mode.
- olf the Caller List is empty, you cannot enter the Caller List by pressing ▼ or ♠
- Once new calls have been checked, "NEW" will not be displayed.
- off you do not press any buttons for 60 seconds, the unit will return to the standby mode.

Ex. When you search from the most recent call:



Calling Back from the Caller List

- Lift the handset off the base unit and press or (a) to enter the Caller List.
- 2 Scroll to the desired caller by using $\begin{cal} \begin{cal} \begin{cal$

Press //FLASH).

• The displayed phone number i

•The displayed phone number is dialed automatically. TURNER, CINDY 234-456-7890 1/1211-20^{AM} call 33

TALK VOL .11 2344567890

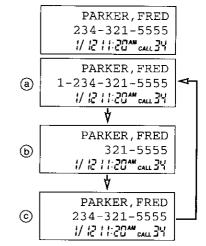
- In some cases, you may have to edit the number before dialing (See below).
- olf a phone number is not displayed in the caller information, you cannot call back that caller.

Editing the Caller's Phone Number

The unit can edit a phone number into one of 3 patterns. **Make sure the unit is in the standby mode.**

- Lift the handset off the base unit and press () or () to enter the Caller List.
- Scroll to the desired caller by using ∇ or \triangle .
- Press EDIT to select a pattern.

 Each time you press EDIT, the number is rearranged into one of 3 different patterns.
 - a 1 Area code Phone no.
 - (b) Phone no.
 - © Area code Phone no.
 - The order in which patterns (a)—(c) are displayed depends on how the telephone number is displayed in step 2.



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

To call back, press \(\simeta /FLASH\) (See above).

To store the number in the phonebook, press (AUTO/PROGRAM). Follow the instructions on the display (p. 18).

The number edited in step 3 will not be maintained in the Caller List.

Storing Caller List Information in the Phonebook

You can store numbers that are in the Caller List in the phonebook. Make sure the unit is in the standby mode.

- Lift the handset off the base unit and press \bigcirc or \bigcirc to enter the Caller List.
- Scroll to the caller you want to store in the phonebook by using or a.

 olf the number requires editing, see page 17.

TURNER, CINDY 234-456-7890 1/1211:20^m call 33

Press AUTO/PROGRAM.

STORE CID TO ?

- Press a memory station number (① to ②).

 A beep sounds.
 - On the LCD memory station number 1 shows "";", 0 shows "".".".
 - The handset will return to the standby mode.

o You can exit the programming mode any time by pressing OFF.

Erasing Caller List Information

After checking the Caller List, you can erase some or all of the entries. **Make sure the unit is in the standby mode**.

To erase a specific caller from the Caller List

- Lift the handset off the base unit and press v or to enter the Caller List.
- Scroll to the caller you want to erase from the Caller List by using abla or abla.
- Press MUTE/CLEAR.

 A beep sounds and the information is erased
 - After a few seconds, the display will show the next or previous caller information.

REAGAN, TOM 888-777-6666 1/1212:2044 GALL 35

CLEARED

To erase all entries in the Caller List

Before erasing all entries, make sure that "call" is not displayed in the recent Caller List.

- Lift the handset off the base unit and press vor a to enter the Caller List.
- Press and hold (MUTE/CLEAR) until "CLEAR ALL CID?" is displayed.
- Press MUTE/CLEAR.

 A beep sounds and all entries are erased.

 The handset will return to the standby mode.

CLEAR ALL CID?

NO ITEMS STORED

You can store up to 10 names and phone numbers in the phonebook. Using the phonebook, you can make a call by selecting a name on the handset display.

Storing Names and Numbers

Make sure the unit is in the standby mode.

Press (AUTO/PROGRAM).

Press a memory station number (0 to 9).

off an item is already stored, that information is displayed.

displayed.

Press EDIT.

Enter a name, up to 15 characters, with the dialing buttons (1 to 9), v or ...

• See the steps for entering names and symbols (p. 21).

olf a name is not required, press **EDIT** and go to step 6.

Press EDIT.

Enter a phone number, up to 24 digits.

 Each time you press MUTE/CLEAR, the digit is erased from the right. To erase all of the digits, press and hold MUTE/CLEAR.

oTo show the cursor, press after entering a digit. Each time you press MUTE/CLEAR, the digit under the cursor is erased.

oWhen you store the last number dialed, press PAUSE/REDIAL instead of entering a phone number.

7 Press EDIT to save.

A beep sounds.

The handset will return to the standby mode.

SELECT STATION NUMBER

EMPTY

0:

ENTER NAME :

01

ENTER NAME :

TOM:

ENTER NUMBER :

098

0987654321

0987654321

off a pause is required for dialing, PAUSE/REDIAL can be stored in a phone number counting as one digit (p. 26) in step 6.

oYou can exit the programming mode any time by pressing OFF.

olf you do not press any buttons for 60 seconds, the unit will return to the standby mode.

Entering Names and Symbols

The handset dialing buttons (1 to 9), vand a can be used to enter letters and symbols. The letters are printed on the dialing buttons. Pressing each button selects a character as shown below.

	Number of times key is pressed			
Keys	1	2	3	4
1	Blank	-	*	!
2	Α	В	С	(
3	D	E	F)
4	G	Н	I	II .
5	7	K	٦	,
6	М	N	0	;

	Number of times key is pressed			
Keys	1	2	3	4
7	P	α	R	S
8	T	U	٧	?
9	W	X	Υ	Z
4	▼ To move the cursor to the left			
To move the cursor to the right				
				_

oTo show the cursor, press ▼ after entering a character.

If you make a mistake while entering a name

Use or a to move the cursor to the incorrect character, press MUTE/CLEAR to delete and enter the correct character. Each time you press (MUTE/CLEAR), a character under the cursor is erased. To erase all characters, press and hold (MUTE/CLEAR).

Press (AUTO/PROGRAM).

Press a memory station number (0 to 9).

Press EDIT

Press 8.

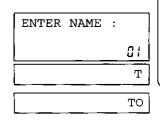
Press 6 three times, then wait for 3 seconds.

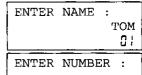
6 Press 6.

When finished, press **EDIT** to save. • Follow steps 6 and 7 on page 20 to complete the operation.

olf you enter a blank, press 1.

oTo show the cursor, press
 after entering a character. While entering names, the cursor will flash on the display.





oTo enter another character using the same dialing button, press ★ or wait for 3 seconds.

Dhonebook

Finding Stored Items

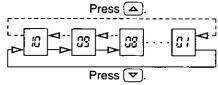
Make sure the unit is in the standby mode.

Press (AUTO/PROGRAM).

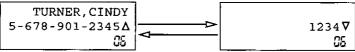
oThe first item or last item is displayed.

ANN 123-456-7890 *G2*

Scroll to the desired item by using \triangle or $\mathbf{\nabla}$.



- •You can find the items using the memory station numbers (0 to 9) directly in step 2.
- You can exit the phonebook any time by pressing (OFF).
- olf "EMPTY" is displayed in step 2 or 3, the phonebook is empty.
- \circ If an arrow (Δ) is displayed after the number, the whole phone number has not been shown. The remaining numbers will be displayed alternately.

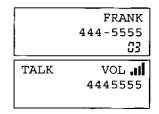


Dialing

Press (AUTO/PROGRAM).

Press or ▼.

- oThe first item or last item is displayed.
- Scroll to the phonebook item that you want to dial by using \triangle or \bigcirc .



- Press /FLASH
 - The number is dialed automatically.
- 5 To hang up, press OFF or place the handset on the base unit.
- You can find the items using the memory station numbers (0 to 9) directly in step 2.
- •You can exit the phonebook any time by pressing OFF.

□If you press <a>¬/FLASH first, follow the steps below:

Press ►/FLASH ⇒ AUTO/PROGRAM ⇒ Station Number (0 to 9).

(△ and ▼ cannot be used for finding the items.)

Editing

Make sure the unit is in the standby mode.

- Press AUTO/PROGRAM).
- Press ▲ or ♥.

 •The first item or last item is displayed.
- Scroll to the phonebook item you want to change by using a or , and press EDIT.

JANE 345-6789 **ይ**ዣ

ENTER NAME : JANE

Edit the name using the dialing buttons, or (p. 21), up to 15 characters.

ENTER NAME : JANE WALKER JY

Fress EDIT.

3456789

Add a number to the current number.

olf you do not need to change the number, go to step 7.

0983456789

- Each time you press (MUTE/CLEAR), a digit is erased from the right. To erase all of the digits, press and hold (MUTE/CLEAR).
- o To show the cursor, press ♥. The digit is added to the right of the cursor. Each time you press MUTE/CLEAR, the digit under the cursor is erased.
- 7 When finished, press **EDIT** to save.
 - A beep sounds.
 - •The handset will return to the standby mode.
- •You can find the items using the memory station numbers (0 to 9) directly in step 2.
- •You can exit the phonebook any time by pressing OFF.

Phonebook

Erasing

Make sure the unit is in the standby mode.

To erase a specific caller from the Phonebook

- ✓ Press AUTO/PROGRAM.
- Press or .

 The first item or last item is displayed.

HELEN 666-777-8888 **C**S

- Scroll to the phonebook item you want to erase by using () or ().
- Press (MUTE/CLEAR).

 o A beep sounds.

 o The handset will return to the standby mode.

CLEARED

- •You can find the items using the memory station numbers (① to ②) directly in step 2.
- •You can exit the phonebook any time by pressing (OFF).

To erase all entries in the Phonebook

- Press (AUTO/PROGRAM).
- $2 \quad \text{Review phonebook record by using } \triangle \\ \text{or } \overline{\blacktriangledown}.$
- Press and hold <u>MUTE/CLEAR</u> until "CLEAR ALL?" is displayed.

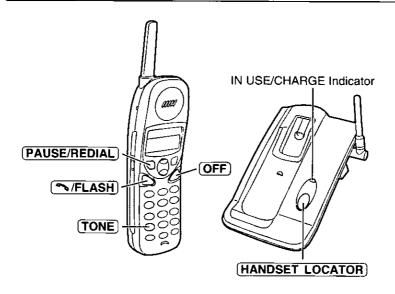
CLEAR ALL ?

Press (MUTE/CLEAR).

• A beep sounds and all entries are erased.

• The handset will return to the standby mode.

NO PHONEBOOK



Automatic Security Code Setting

Each time you place the handset on the base unit, the unit automatically selects one of more than 65,000 security codes. These codes help prevent the unauthorized use of your telephone line by another cordless telephone user.

Handset Locator

You can locate the handset or page the handset user with beep tones from the base unit.

- Press (HANDSET LOCATOR).
 - •The IN USE/CHARGE indicator flashes. The handset beeps for 1 minute and "PAGING" is displayed on the handset.
- 2 To stop paging, press (HANDSET LOCATOR) again or press (OFF) on the handset.

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 Analog PBX Line/Long Distance Service Users)

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

- Ex. Line access number (9) (PBX)
 - 9 ⇒ PAUSE/REDIAL) ⇒ Phone number
- Pressing (PAUSE/REDIAL) once creates a 3 second pause. This prevents misdialing when you redial or dial a stored number.
- Pressing PAUSE/REDIAL more than once increases the length of the pause between numbers.

For Call Waiting Service Users

Press \(\bullet \rangle FLASH\) if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- oTo return to the first caller, press <a>¬✓FLASH) again.
- •The call waiting service cannot be used when a parallel connected telephone is in use.
- off this function does not operate properly, consult your telephone company for details.

Call Waiting Caller ID Feature

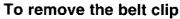
Call Waiting Caller ID Feature allows your unit to display the second caller's information. After you hear a call-waiting tone while talking, the unit will display the caller's name, the phone number and the date and time received.

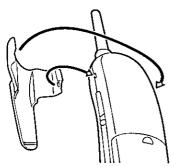
BROWN, NANCY 555-666-7777 5/13 1:54-0 25102

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

You can hang the handset on your belt or pocket using the belt clip.

To attach the belt clip





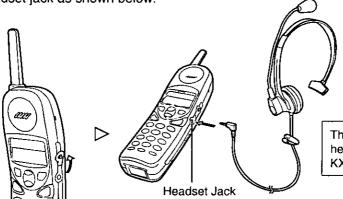


Optional Headset

Plugging an optional headset into the handset allows a hands-free phone conversation. Please use only a Panasonic KX-TCA87 or KX-TCA90 headset. To order, call the accessories telephone number on page 2.

Connecting an optional headset to the handset

Open the headset jack cover, and connect an optional headset to the headset jack as shown below.



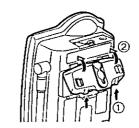
The illustration headset is a KX-TCA87.

When an optional headset is connected to the handset, make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

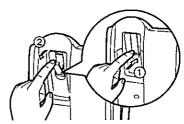
Wall Mounting

This unit can be mounted on a wall phone plate.

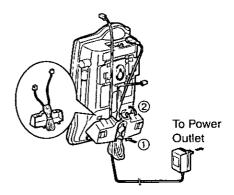
Remove the wall mounting adaptor.



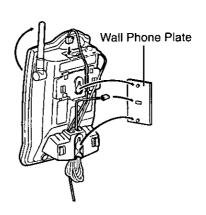
Push the lower side of the hook (1) and pull down the hook until it locks (2), so the tab holds the handset.

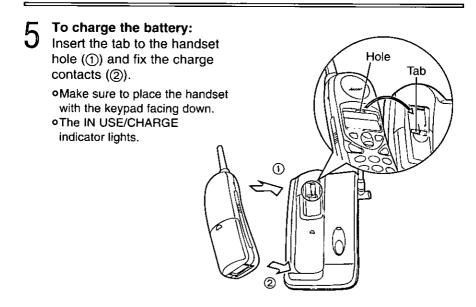


- 3 Connect the AC adaptor.
 Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.
 - The word "UP WALL" should face upward.



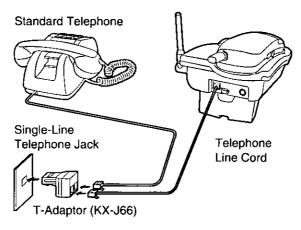
- Connect the telephone line cord. Mount the unit, then slide down.
 - Raise the antenna.





Adding Another Phone

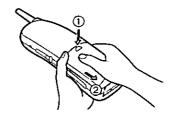
This unit will not function during a power failure. To connect a standard telephone on the same line, use the Panasonic T-adaptor KX-J66. To order, call the accessories telephone number on page 2.



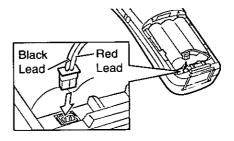
Battery Replacement

If "RECHARGE" and "\(\infty\)" are displayed after a few telephone calls even if the battery was fully charged, replace the battery with a new Panasonic P-P504 battery. To order, call the accessories telephone number on page 2.

Press the notch on the handset cover firmly (1) and slide it as indicated by the arrow (2).



- 2 Remove the old battery. Then install the new one.
 - Insert the battery plug into the connector as shown in the picture.
 - •Be sure wires are free from being pressed by the battery body or handset cover.



Close the cover. Make sure you charge the new battery for about 15 hours.

A nickel cadmium battery that is recyclable powers the product you have purchased. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.



(Indices)	
<i>liatorinetton</i>	

Problem	Cause and Remedy
The unit does not work.	 Check the settings (p. 7–9). Charge the battery fully (p. 8). Clean the charge contacts and charge again (p. 9). Install the battery properly (p. 8, 30). Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and try again.
An alarm tone sounds.	 You are too far from the base unit. Move closer and try again. Place the handset on the base unit and try again. Plug in the AC adaptor. Raise the base unit antenna.
Static, sound cuts in/out, fades. Interference from other electrical units.	 Locate the handset and the base unit away from other electrical appliances (p. 3). Move closer to the base unit. Raise the base unit antenna. Press (CH/FUNCTION) to select a clearer channel in the talk mode.
The handset does not ring.	 The ringer volume is set to OFF. Set to ON (p. 9). If a power failure occurs, the handset loses communication with the base. When power returns, place the handset on the base unit once then try again.
The handset display is blank.	Install the battery properly (p. 8, 30).Charge the battery fully (p. 8).
You cannot program items, such as the dialing mode.	 oProgramming is not possible while the unit is in the talk mode or when viewing the Caller List/phonebook. oDo not pause for over 60 seconds while programming. oMove closer to the base unit.

OFF) and try again.

o or a may have been pressed when you picked up the handset. Press

Troubleshooting

Problem	Cause and Remedy
You cannot store a name and phone number in the phonebook.	 You cannot store an item in the phonebook while the unit is in the talk mode. Do not pause for over 60 seconds while storing.
While programming or searching, the handset starts to ring and stops the program/search.	oTo answer the call, press \(\sim_/FLASH \). Start again from the beginning after hanging up.
The handset does not display the caller's name and/or phone number.	 You need to subscribe to a Caller ID service from a telephone company. Other telephone equipment may be interfering with your phone. Disconnect it and try again. Other electrical appliances connected to the same outlet may be interfering with the Caller ID information. Telephone line noise may be affecting the Caller ID information.
The display goes to the standby mode while viewing the Caller List.	ODo not pause for over 60 seconds while searching.
When a second call is received during a conversation, the unit does not display the new caller's name and/or phone number.	oThe caller requested not to send his/her information. See page 14.
(HANDSET LOCATOR) does not function.	 The handset is too far from the base unit. The handset is engaged in an outside call. Wait until the IN USE/CHARGE indicator light goes out.

Problem	Cause and Remedy
You cannot redial by pressing (PAUSE/REDIAL).	oWhen pressing PAUSE/REDIAL after /FLASH), more than 32 digits long number will not be redialed correctly. oWhen pressing /FLASH after PAUSE/REDIAL), more than 24 digits long number will not be redialed correctly.
"RECHARGE" and " co " are displayed or the handset beeps intermittently.	Charge the battery fully (p. 8).
While talking, the call is disconnected.	 The battery needs to be recharged. Charge the battery fully (p. 8).
You charged the battery fully, but "RECHARGE" and " " " " " " " " " " " " "	 Clean the charge contacts and charge again (p. 9). Install a new battery (p. 30).
The IN USE/CHARGE indicator light does not go out while charging.	oThis is normal.
You cannot have a conversation using the handset.	•When an optional headset is connected (p. 27), you must use the headset to talk with the caller. To have a normal cordless phone conversation, disconnect the headset.
You cannot have a conversation using the headset.	•Make sure that an optional headset is connected properly (p. 27).
If you cannot solve your problem	 Call our customer call center at 1-800-211-PANA(7262). Panasonic's e-mail address for customer inquiries: consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY

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 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. 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.
- 13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
- 14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION:

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

- Use only the battery(ies) specified.
- 2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
- 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 batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
- 5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

WARNING:

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

•The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

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 47 CFR 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.

Privacy of communications may not be ensured when using this phone.

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.

The USOC jack is RJ11C and the jack is Part 68 compliance.

This equipment is hearing aid compatible.

- 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. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- off 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.

Index

A Accessories	I Installation AC adaptor
B Backlit LCD 12 Base Unit location 3 Battery, Charge 3, 8 Battery life 9 Battery replacement 30 Belt Clip 27	L Language, display
C Call waiting caller ID 26 Call waiting tone 26 Caller ID, display 14 Caller ID service 12, 13 Caller List 17 editing 17 erasing 19 storing 18 viewing 15, 16 Calling back from Caller ID List 17	P PAUSE 26 Phonebook 20 dialing 22 editing 23 erasing 24 finding 22 name and symbols 21 storing 20 Pulse service 25
D Dialing mode	R Redial
	V Volume control 12

For product service

- Call 1-800-211-PANA(7262) or 1-800-833-9626 for the location of an authorized servicenter.
- Panasonic's e-mail address for customer inquiries: consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY

When you ship the product

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

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed on the back cover or to executive or regional sales offices. These locations do not repair consumer products.
 - This cordless telephone is designed for use in the United States of America.
 Sale or use of this product in other countries may violate local laws.
 - Ce téléphone sans fil est conçu pour être utilisé aux États-Unis d'Amérique.
 La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
 - Este teléfono sin cordón fue elaborado para uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
 - このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

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

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

P/N: 480 - 20460 - 00010