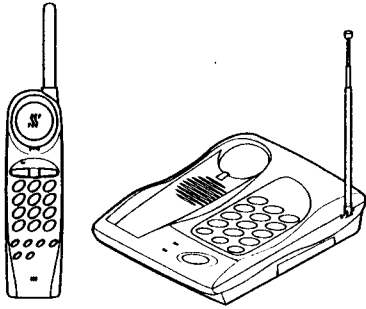# SANYO

INSTRUCTION MANUAL   CLT-538X

CORDLESS TELEPHONE

**Please read these instructions completely before use.
If you have a problem with your cordless telephone, please see
"TROUBLESHOOTING" on page 15 and "COMMON PROBLEM -
QUICK CHECK GUIDE" on page 16 before calling for service.**

CAUTION
THIS PRODUCT IS INTENDED FOR USE IN NEW ZEALAND ONLY.
SALE OR USE IN OTHER COUNTRIES MAY VIOLATE LOCAL LAWS.

IMPORTANT!

HANDSET BATTERY PACK

**Charge the handset battery pack for a full 12 hours before using your
cordless phone for the first time. (See pages 4 - 5.)**

RINGER SWITCH
If the RINGER switch on the base station is set to the off position, no ring is heard when an incoming
call is received. (See pages 8.)

GENERAL WARNING

The grant of a Telepermit for any item of terminal equipment indicates that only
Telecom has accepted that the item complies with minimum conditions for connection
to its network. It indicates no endorsement of the product by Telecom, nor does it
provide any sort of warranty. Above all, it provides no assurance that any item will work
correctly in all respects, with another item of Telepermitted equipment of a different
make or model, nor does it imply that any product is compatible with all of Telecom's
network services.

IMPORTANT NOTICES

1. This equipment may not provide for the effective hand-over of a call to another
   device connected to the same line.

2. Under power failure conditions, this telephone may not operate. Please ensure that
   a separate telephone, not dependant on local power, is available for emergency
   use.

3. This telephone does not include any date function and therefore Year 2000
   compliance is not applicable.

4. Pulse dialling may not be used on this telephone.

5. The "flash time" setting of this telephone must be 600ms.

SANYO

TABLE OF CONTENTS

CONGRATULATIONS

Your Sanyo **SUPER-COMPANDER** cordless telephone is a fine-quality home
communications product. It is carefully designed and produced by a world leader of
consumer and industrial electronics equipment. With proper maintenance and care. it
will provide you with years of enjoyment and convenience.

The CLT-538X has many unique advanced features including:

Hands-Free Speakerphone on Base and dual keypad
    Hands-Free speakerphone is included on base station. With a dialing keypad on
    both cordless handset and base station, the CLT-538X is like two telephones, and
    serves you as an intercom or 2-way pager.

SUPER-COMPANDER Noise Reduction
    This fourth generation of Sanyo's original noise reduction technology now filters out
    more background noise.

10-channel auto scan
    Your new telephone uses one of 10 channels that are now available for cordless
    telephones. It automatically selects a clear channel every time you receive or place
    a call on the handset. Should you wish to switch channels during a call, the handset
    provides a **CHANNEL** button.

Extended operating range

Illuminated keypad on both handset and base station

14-day standby

Notice:
This cordless telephone uses radio communication between the handset and the base
station and may not ensure privacy of communication. Other devices, including other
cordless telephones, may interfere with the operation of this cordless telephone or
cause noise during operation. Cordless telephones must not cause interference to any
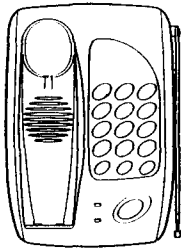licensed radio service.

Check to make sure you have all the items that come with the system.

Handset
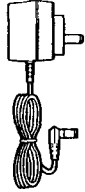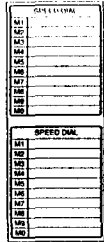
Base Station

AC Adaptor
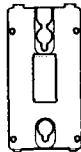
Telephone Cord

Speed Dial Directory Sheet

Model No. AD-B135
INPUT: AC 230V~240V, 50Hz
OUTPUT: DC 9V, 250mA
Polarity: Center Negative

Wall-Mount Bracket

Battery Pack SANYO 3N-270AA

TIPS FOR BEST PERFORMANCE

BASE STATION LOCATION

For maximum operating range, extend the base station antenna to full length. In most cases, the best location for the base station is at the highest point in the house. Avoid places near electrical appliances and metal structures such as a refrigerator and filing cabinets that can reduce operating range and performance.

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

In a HIGH and CENTRAL location with no obstructions.

Extend the antenna to full length.

Do not place the base station on top of or near a TV or VCR as this may interfere the performance of these appliances.

CAUTIONS:

■ If you operate this product near water (bathtub, swimming pool, kitchen), take care to avoid contact between the water and the handset.

■ Never spill liquid of any kind on the handset. This may cause a malfunction.

■ Do not operate this product with dirty hands or allow the handset to be exposed to direct sunlight for extended periods. This can cause blurring, discoloration and fading of the lettering on the handset keypad. Discoloration or fading will have no effect on the telephone performance.
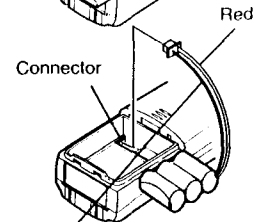
INITIAL SETUP
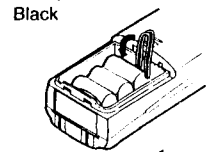
INSTALLING THE HANDSET BATTERY AND INITIAL CHARGING
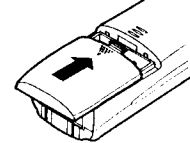
1. Remove the battery compartment lid.
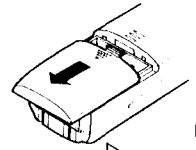
2 Plug the battery cord into the connector inside the compartment.

Connector

Red

Black

3 Place the battery in the compartment.

4 Replace the lid.

IMPORTANT: Charge the handset for a full 12 hours before using the cordless phone for the first time. Never attempt to use the cordless phone before this initial battery charge. See next page.

Replacement battery number:
SANYO 3N-270AA   GP30AAK3BML
Use of other brands or types of batteries may cause serious damage or equipment malfunctions.

AC CONNECTION

1. Insert the small plug of the AC adaptor cord into the **DC 9V AC ADAPTOR** jack on the back of the base station.
2. Secure the AC adaptor cord under the hook located below the jack, as shown
3. Plug the AC adaptor into an AC wall outlet

To power outlet
(AC 230V, 50Hz)

DC 9V AC ADAPTOR

AC adaptor
(Model No. AD-B135)
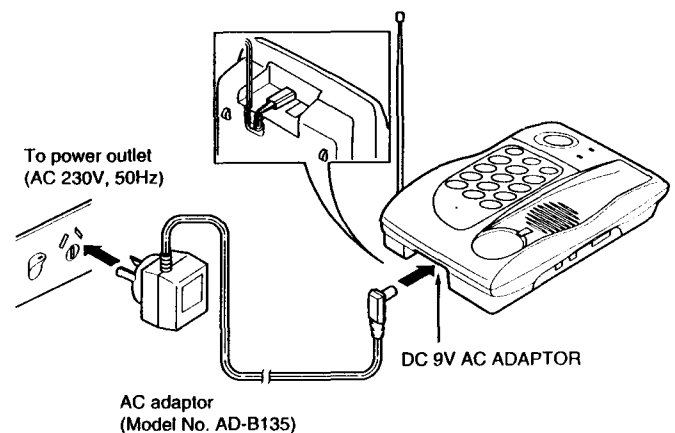
NOTE:
USE ONLY SANYO AC ADAPTOR MODEL NO. AD-B135
(APPROVAL NO. 14676)

CHARGING THE HANDSET

1. Place the handset on the base station for 12 hours. The **CHARGE/IN USE** indicator lights.
   * The base station must be connected to AC power. (see page 4.)
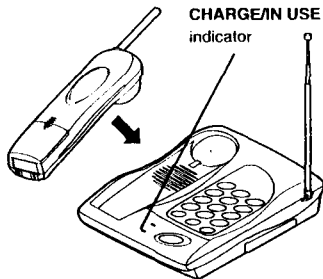
2. Remove the handset from the base station.

From then on, recharge the handset for continuous 12 hours when the **TALK/BATT.LOW** indicator flashes at a few seconds intervals. (In addition, a beep sounds at the same intervals during phone use.)

Standby time
When the handset battery is fully charged, your Sanyo cordless phone offers **up to 14 days of continuous standby time or up to 10 hours of continuous talk time.** (Listed *standby time is measured under a situation in which handset is kept in standby mode only–no phone calls are made or received).* Under normal usage conditions, recharging is required more often.
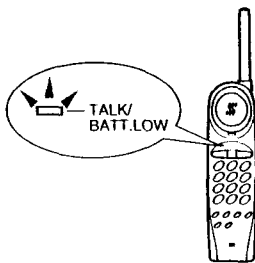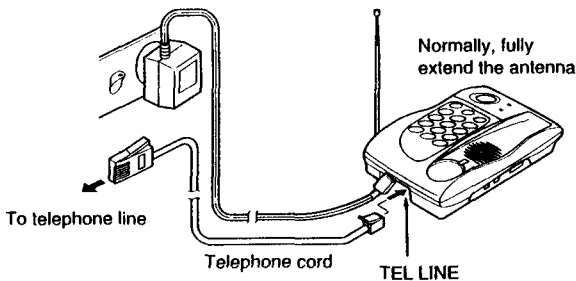
CAUTION: Repeated recharging for shorter periods may reduce battery capacity.

PHONE LINE CONNECTION

Note:
Please make sure that the handset battery is fully charged before connecting the phone line cable.

To telephone line

Telephone cord   TEL LINE

WARNINGS
- This cordless telephone may, on some longer lines, have difficulty handing over to another device connected to the same line.
- Immediately disconnect the equipment should it become physically damaged, and arrange for its disposal or repair.
- The operation of this equipment on the same line as telephones or other equipment with audible warning devices or automatic ring detectors will give rise to bell tinkle or noise and may cause false tripping of the ring detector. Should such problems occur, the user is not to contact Telecom Faults Service.

CAUTION
This telephone is for use with a "tone dialing system" only. If you have a pulse dialing lines, you can't use this cordless telephone.

SECURITY CODE

This cordless telephone has a digital security system with 10,000,000 possible codes. This system helps prevent the unauthorized use of your telephone line by another cordless telephone.

How to reset your security code
1. Place the handset in the base station cradle.
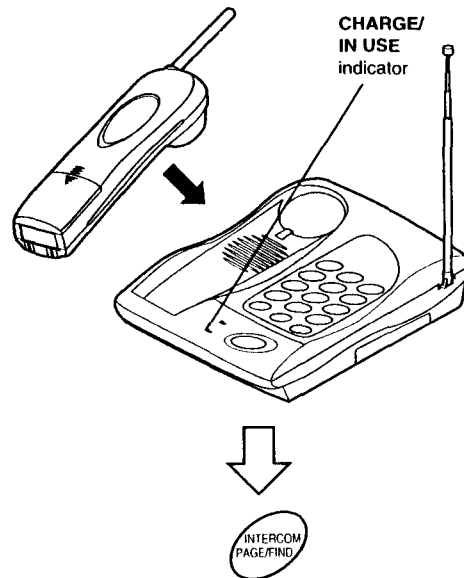
2. Within 8 seconds, press [INTERCOM•PAGE/FIND] on the base station. The **CHARGE/IN USE** indicator flashes, and then lights steadily. The security code is now set.

NOTES:
■ To change your security code at any time, simply repeat the above steps. A new security code is automatically set each time.
■ If you experience difficulty in resetting security code, first disconnect the AC adaptor from the unit, reconnect it, and then try again.

HANDSET

Antenna

Earpiece

TALK/BATT.LOW
Indicator
Lights when the handset
is in talk mode.
Flashes at a few seconds
intervals when the battery
pack needs recharging.
(If the battery pack is
completely exhausted,
this indicator does not
light.)

TALK/VOL Button
Press to receive an
incoming call or to place
an outgoing call.
Also used to change the
receiving level of the
earpiece in two steps.

END Button
Press to end a call.

Dialing Buttons

MEMORY Button
Used to store phone
numbers in speed dial
memory or to call a
stored phone number.

REDIAL/P (pause) Button
Press to redial the last
number dialed.
Also used to insert a
pause between two digits.

FLASH Button
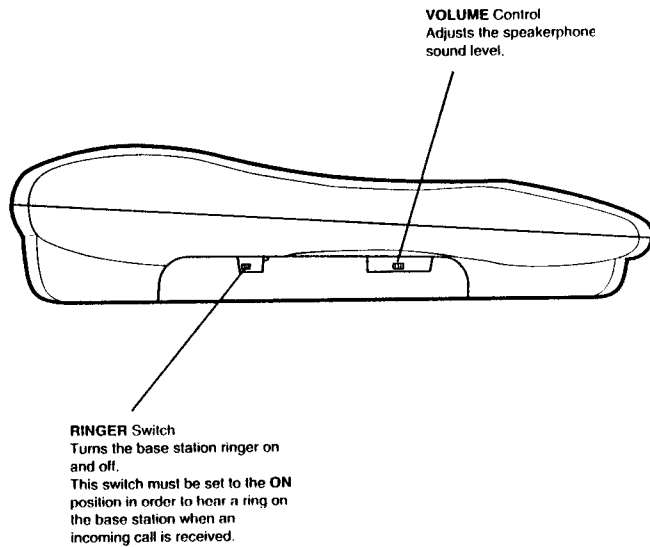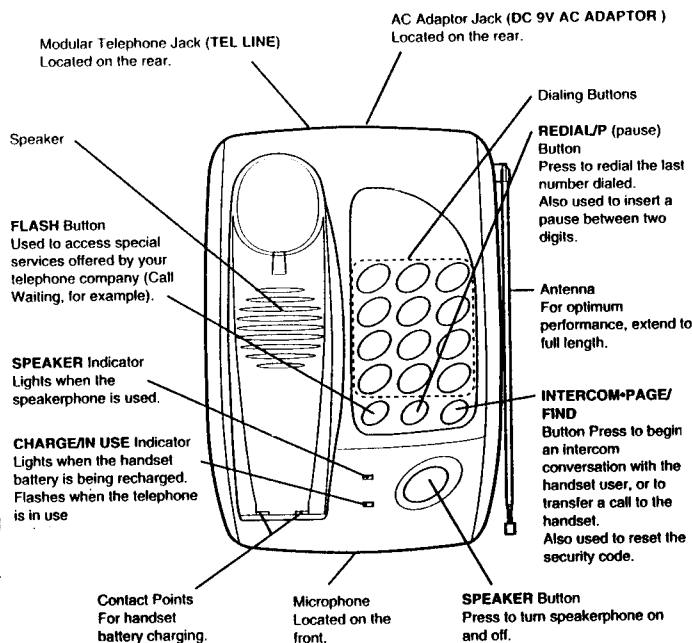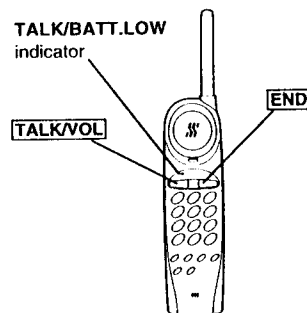Used to access special
services offered by your
telephone company (Call
Waiting, for example).

INTERCOM Button
Press to begin an
intercom conversation
with the base station.
Also used for transferring
a call to the base station.

CHANNEL Button
Press to change to a
clear channel if you hear
noise or interference
during a call.

RINGER VOL. Button
Press and hold for at
least one second in
standby mode to change
ringer volume (low or
high).

Battery
compartment
Located on the rear.

Microphone

Contact Points
For handset battery charging.
Located on the underside.

BASE STATION

Modular Telephone Jack (TEL LINE)
Located on the rear.

AC Adaptor Jack (DC 9V AC ADAPTOR)
Located on the rear.

Speaker

Dialing Buttons

**REDIAL/P (pause)
Button**
Press to redial the last
number dialed.
Also used to insert a
pause between two
digits.

FLASH Button
Used to access special
services offered by your
telephone company (Call
Waiting, for example).

Antenna
For optimum
performance, extend to
full length.

SPEAKER Indicator
Lights when the
speakerphone is used.

**INTERCOM•PAGE/
FIND**
Button Press to begin
an intercom
conversation with the
handset user, or to
transfer a call to the
handset.
Also used to reset the
security code.

CHARGE/IN USE Indicator
Lights when the handset
battery is being recharged.
Flashes when the telephone
is in use

Contact Points
For handset
battery charging.

Microphone
Located on the
front.

SPEAKER Button
Press to turn speakerphone on
and off.

7

BASE STATION

VOLUME Control
Adjusts the speakerphone
sound level.

RINGER Switch
Turns the base station ringer on
and off.
This switch must be set to the ON
position in order to hear a ring on
the base station when an
incoming call is received.

BASIC OPERATION

BEFORE USING THE PHONE

1. Take the handset to the location you want to use it.

2. Press the [TALK/VOL] button. Verify that you get a dial tone and the **TALK/
BATT.LOW** indicator lights. Your handset is ready to use.

3. Place a call or press [END] to hang up.

TALK/BATT.LOW
indicator

[END]

[TALK/VOL]

NOTE:
The base station **CHARGE/IN USE** indicator will flash when [TALK/VOL] button is
pressed.

RINGER VOLUME SETTING
You can set ringer volume low or high in standby mode.
Every time you press and hold the **RINGER VOL.** button for at least one second, ringer
volume changes between low and high alternately.
When reset, the handset rings at the selected volume level.

RINGER
VOL.

10-CHANNEL ACCESS/AUTO SCAN
Every time you answer or place a call using the handset, this cordless telephone
automatically selects a clear channel from 10 channels available to transmit signals
between the base station and handset. If you notice interference during a call, simply
press the **CHANNEL** button on the handset to access a clear channel.

CHANNEL

8

PLACING A CALL

USING THE HANDSET
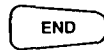
1. Press TALK/VOL.
   (Or lift the handset from the base station and then press TALK/VOL.)
   The **TALK/BATT.LOW** indicator lights. The dialing buttons also light for approximately 10 seconds.

2. Dial the number.

3. Press END to hang up.

To adjust the volume
Press TALK/VOL once during a call.
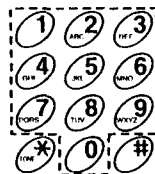The volume level changes in two steps each time TALK/VOL is pressed: normal or loud

USING THE BASE STATION
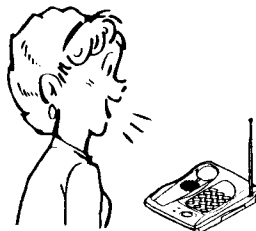
You can make a phone call without the handset.

1. Press SPEAKER to get a dial tone.
   The **SPEAKER** indicator lights and **CHARGE/IN USE** indicator flashes.
   The dialing buttons also light for approximately 10 seconds.
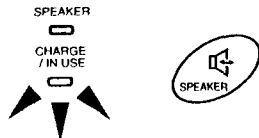
2. Dial the number.

When the call is answered, speak into the microphone

3. Press SPEAKER to end the call.

ANSWERING A CALL

ANSWERING WITH THE HANDSET

When a call comes in, the dialing buttons and the **TALK/BATT.LOW** and **CHARGE/IN USE** indicators flash.

1. Press TALK/VOL.
   (Or lift the handset from the base station.)

ANY KEY ANSWER
You can also press any key on the handset except the END key to answer the call.

2. Press END to hang up.

NOTES:
- The cordless handset may ring slightly after the base station.
- If the handset is too far away from the base station, pressing END may not hang up a call. If this happens, come closer to the base station and then press END.

ANSWERING WITH THE BASE STATION

You can answer an incoming call using the base station speakerphone without picking up the handset.

When a call comes in, the dialing buttons and the **CHARGE/IN USE** indicator flashes.

1. Press SPEAKER to answer a call.
   The **SPEAKER** indicator lights and **CHARGE/IN USE** indicator flashes
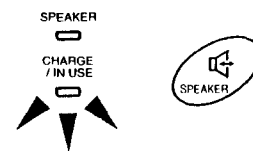
Use the **VOLUME** control on the side to adjust the speaker volume.

2. Press SPEAKER again to end the call.

NOTE: If the **RINGER** switch is set to the **OFF** position, the base station will not ring.

SPEED DIAL (Handset only)

The handset can store up to 10 phone numbers in its memory. You can dial a stored number simply by pressing the **MEMORY** button and the assigned 1-digit memory location number.

To store numbers in memory

1. Press and hold the **MEMORY** button for at least one second.
   The **TALK/BATT.LOW** indicator flashes.
   The dialing buttons light for approximately 10 seconds.

MEMORY   ⊐— TALK/
                             BATT.LOW
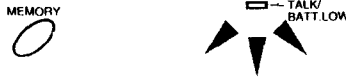
2. Dial the phone number you want to store using the handset keypad.
   If you make an error while storing a number, press [END] to cancel the operation.
   To resume, begin with step 1.
   – Up to 16 digits can be stored. (A pause counts as one digit.)
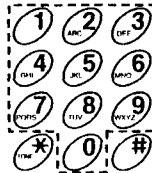
3. Press the **MEMORY** button.

MEMORY

4. Press a number button ((0) – (9)) to assign a memory location number to the phone number.

   A beep sounds, and the **TALK/BATT.LOW** indicator goes off. The phone number is now stored.
   The lights of the dialing buttons also go off.

5. Write the stored phone number on the speed dial directory sheet (included).

6. Repeat steps 1 - 5 to store other numbers or to change previously stored numbers.

To insert a pause:
Stored phone numbers can include a 2-second pauses between two digits (after 1 to get an outside line in a PBX system, for example). Press the **REDIAL/P** button after the first digit.

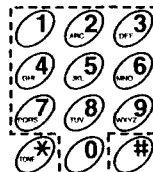**To dial a number stored in the memory**

1. Press [TALK/VOL].

   (TALK/VOL)

2. Press the **MEMORY** button.

MEMORY

3. Enter the location number ((0) – (9)) using the handset keypad.

To clear a specific stored number
1. Press and hold the **MEMORY** button for at least one second.
2. Press the **MEMORY** button again.
3. Enter the assigned speed dial number.
   The number stored in this location has been erased.

Speed dialing can be performed using the handset keypad only.

The speed dial memory may be erased if the handset battery is replaced or exhausted.

11

REDIAL

You can automatically redial the last number called using the **REDIAL/P** button on the handset or base station. A number of up to 32 digits can be redialed.

I The **REDIAL/P** button on the handset redials the last number called using the handset keypad.

REDIAL/P

I The **REDIAL/P** button on the base station redials the last number called using the base station keypad.

(REDIAL/P)

NOTE:

To redial after hearing a busy signal, press [END], then [TALK/VOL], then the **REDIAL/P** button.

FLASH BUTTON

You can use the **FLASH** button to answer the second party when you subscribe to CALL WAITING service offered by your phone company and PBX system.

If you subscribe to CALL WAITING...

1. If a call comes in when you are already on the phone, a beep sounds.

2. Press **FLASH**.
   The first call is placed on hold, and you can talk to the second caller

FLASH   (FLASH)

3. Press **FLASH** again.
   The second caller is placed on hold, and you can talk to the first caller.

FLASH   (FLASH)

NOTE: The **FLASH** button may also be used to get a new dial tone without pressing the [END] button or replacing the handset in the base station cradle. However, if your telephone line has special service features (like CALL WAITING), the **FLASH** button may not operate in this way.
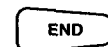
INTERCOM

The intercom feature allows wireless communications between the base and handset users. The paging feature can also be used as a handset locator.

From Handset to Base Station (Auto Intercom)

1. Handset: Press the **INTERCOM** button to page the base station.
   Base station automatically switches to intercom mode.
   The **CHARGE/IN USE** indicator flashes and **SPEAKER** indicator lights.

INTERCOM

2. Handset/Base station: Begin intercom conversation.

3. Handset: Press [END] to turn off the intercom.

   (END)

From Base Station to Handset

1. Base station: Press [INTERCOM•PAGE/FIND] to page the handset. The **CHARGE/IN USE** indicator flashes.

   When the handset is paged by the base station, the **TALK/BATT.LOW** indicator flashes.

(INTERCOM   CHARGE   ⊐— TALK/
PAGE/FIND)   / IN USE   BATT.LOW

2. Handset: Press [TALK/VOL] (or any key except [END]) and begin intercom conversation.
   The **TALK/BATT.LOW** indicator lights.

3. To turn off the intercom, press [END] on the handset.

   (END)
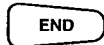
12
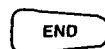
Room Monitoring

Using the intercom feature, the handset user can monitor the ambient sound of the room where the base station is located

1. Press the **INTERCOM** button to begin monitoring.

INTERCOM

(To improve the clarity of the monitor sound, cover the handset microphone with your hand.)

2. Press ⌈END⌉ to end monitoring.

END

Handset Locator

If you misplace the handset, press ⌈INTERCOM•PAGE/FIND⌉ on the base station to make the handset beep.

INTERCOM
PAGE/FIND

TRANSFERRING A CALL

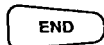A call can be transferred between the handset and the base station.

From Handset to Base Station

1. Handset: Press the **INTERCOM** button to alert the base station. The **TALK/BATT.LOW** indicator flashes.

INTERCOM

The call is put on hold.
Speak to the base station user.

2. Handset: Press ⌈END⌉. The base station user can now talk to the caller using the speakerphone.

END

Handset: (If the base station does not answer, press ⌈TALK/VOL⌉ to talk to the caller again.)
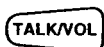
From Base Station to Handset

1. Base station: Press ⌈INTERCOM•PAGE/FIND⌉ to alert the handset user.
   The call is put on hold.
   The **CHARGE/IN USE** and **SPEAKER** indicators flash.

INTERCOM
PAGE/FIND

2. Handset: Press ⌈TALK/VOL⌉ (or any key except ⌈END⌉) to answer the base station.
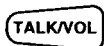
TALK/VOL

3. Handset: Press ⌈TALK/VOL⌉ again to talk to the caller.

TALK/VOL

Base station: If the handset user does not answer, press ⌈SPEAKER⌉ to talk to the caller again.

SPEAKER

WALL MOUNTING

To mount the base station on a wall

1. Insert the hooks of the wall-mount bracket in the holes (1) on the underside of the base station.
   Then push them in the direction of arrow (2) as shown.

To socket

To wall

Wall-mount
(2) bracket
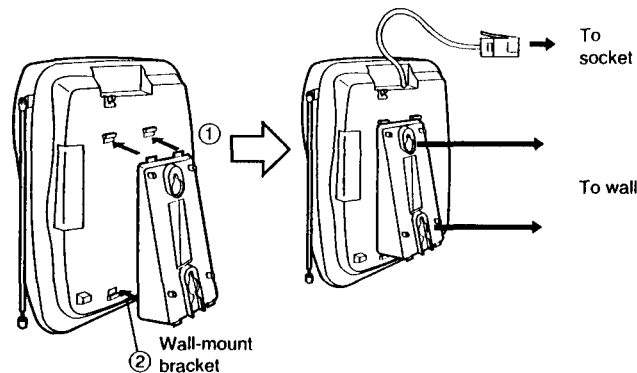
2. Connect a short modular telephone cord (not supplied) to the wall plate.
3. Mount the base station on the wall phone plate and seat it securely.

RECHARGEABLE HANDSET BATTERY

Recharge handset in the base station cradle for a continuous 12 hours when the **TALK/BATT.LOW** indicator flashes. (See page 5).

Repeated recharging for shorter periods may reduce battery capacity.

Battery Refresh

If your battery seems to need recharging more often than usual, it may have lost part of its charging capacity because of premature recharging. To return the battery to its full capacity, try the battery refresh procedure.

▌ Discharge the battery by leaving the handset in talk mode until the **TALK/BATT.LOW** indicator flashes. (First, disconnect base station from phone line.)
▌ Charge the handset for 12 hours.
▌ Repeat this procedure once more.

If performance still doesn't improve, it's time to replace the battery.

REMEMBER: Reset security code after a battery refresh (page 6).

> **REMEMBER:**
> Your handset battery needs recharging when you hear a beep every few seconds during phone use. (The **TALK/BATT.LOW** indicator flashes at the same intervals.)

Cleaning the contact points
To ensure that the handset battery charges properly, clean the contact points on the handset and the base station once a month with a soft cloth.
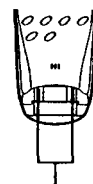
Contact points   **Contact points**

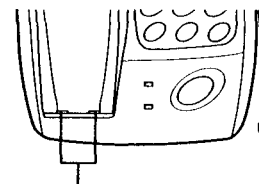Although it is unlikely that the base station will malfunction, if it does, disconnect it from the telephone line until proper repairs are completed.

The cordless telephone uses radio frequencies for transmission and reception, and is subject to certain operating conditions. The following conditions are normal and could affect the operation of your system.

1. NOISE
Electrical pulse noise is present in most homes at one time or another. This is most intense during electrical storms. Certain kinds of electrical equipment such as light dimmers, fluorescent bulbs, motors, fans, etc., also generate these noise pulses. Because radio frequency transmissions are susceptible to these pulses, on occasion you may hear them in your handset. Generally they are a minor annoyance and should not be interpreted as a defect in your system.

2. RANGE
Because radio frequencies are used, the location of the base station can affect the operation range. Try several locations in your home or business and pick the one that gives you the clearest signal to the handset. Turning around while holding the handset may help you find the best position.

3. INTERFERENCE
Electronic circuits activate a relay to connect the cordless telephone to your telephone line. These electronic circuits operate in the radio frequency spectrum. While several protection circuits are used to prevent unwanted signals, there may be periods when these unwanted signals enter the base station. You may hear clicks or hear the relay activate while you are not using the cordless handset. If this starts occurring frequently, it can be minimized or eliminated by lowering the height of your base station antenna, or relocating the base station. Check for interference before selecting your final base station location by plugging it in and monitoring it for clicks.

Two cordless systems should not be operated too close to each other because of interference. This interference can be reduced by lowering your base station antenna, thereby reducing its range.

Most cordless phone problems can be corrected quickly and easily — without service. If you experience difficulties, try the suggestions below before taking your phone in for service.

If the phone doesn't work at all
∎ Security code may have been canceled. To reset, see page 6.
∎ AC adaptor may not be plugged into wall outlet or base station.
∎ Telephone line may not be connected.
∎ Handset battery may be extremely low. If **TALK/BATT.LOW** indicator flashes in talk mode, recharge battery. (See page 14).
∎ Handset may be too far from base station. Move closer.

The operating range seems shorter
∎ Check the base station location for interfering objects. (See page 3.)
∎ Extend the base station antenna to full length.

Handset battery life or standby time seems shorter
∎ Handset battery may have been repeatedly recharged before being fully exhausted. Try Battery Refresh (See page 14).
∎ Battery may need replacing (See page 4.)

Incoming calls do not ring on handset
∎ Handset may be too far from base station. Move closer.
∎ More than one cordless phone is connected to the same line and they may be using a same channel. Change the channel of a phone by pressing the **CHANNEL** button.

Incoming calls do not ring on base station
∎ The **RINGER** switch may be set to OFF.

Reception is noisy (interference, hum or static)
∎ Switch to a clearer channel. (See page 8.)
∎ Base station may be too close to electrical equipment. Try another location.
∎ Handset may be too close to large metal object(s). Move to another location, or change direction while using handset.
∎ Lower base-station antenna to reduce interference range.

If phone still does not work
∎ Reset base station and handset as follows:
   1. Disconnect AC adaptor, and then reconnect AC adaptor to reset base station.
   2. Disconnect then reconnect the handset battery.
   3. Reset security code. (See page 6.)

"If you have a problem with your cordless telephone, try the following suggestions before calling for service"

NO.	SYMPTOM	CHECK	IF	SOLUTION
1.	NOISE	A. Is the antenna of the base station fully extended?	NO	Fully extend the antenna.
		B. Is there any electronic equipment nearby? (For eg: personal computer, FAX, etc)	YES	Move the base station and handset further away from them.
		C. Is there any object which obstructs radio frequencies between the base station and handset? (For eg: concrete, tile walls or metal object, etc)	YES	Try to move the base station to another location.
		D. Is another cordless phone nearby?	YES	Try to change the channel used by pressing the CHANNEL button on the handset.
		E. Fluorescent lamps or other electronic equipment may generate noise pulses.	YES	Move the base station and handset further away from them.
		F. Are you hearing beeps for battery alarm during phone conversation?	YES	The handset battery is low. Recharge it.
2.	CUT OFF	A. Is the TALK/BATT. LOW indicator lit?	YES	Recharge the handset battery.
		B. Is the telephone line cutting off during phone conversation?	YES	Make certain that the AC adaptor is firmly connected to both the base station and an AC wall outlet. Also make certain that the handset battery is firmly connected to the socket in the compartment.
		C. Is the phone interrupted during phone conversation?	YES	Check the above ITEM (B-E) of NOISE SYMPTOM, No. 1.
3.	NO CHARGE	A. Is the CHARGE/IN USE indication lit with the handset placed on the base station cradle?	NO	Clean the battery charging terminals on the handset and base station with a soft cloth.
		B. Does the TALK/ BATT. LOW indicator not go off, even if the handset battery is recharged?	YES	Same as above. If the performance still does not improve, replace the handset battery.
4.	LOSS OF SECURITY CODE	A. Does a continuous beep sound in the handpiece?	YES	1. Place the handset in the cradle of the base station. 2. Press the INTERCOM•PAGE/ FIND button on the base station (within 8 seconds). A beep sounds within 30 seconds. The security code is now set.