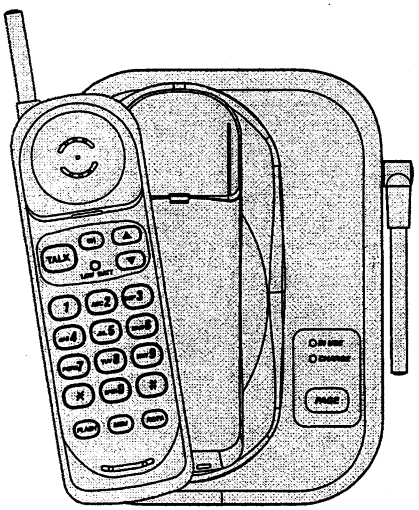
2.4GHz CORDLESS TELEPHONE

Model CY2401

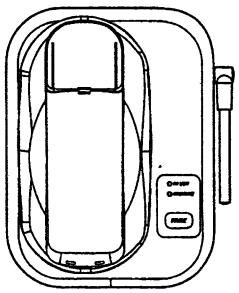


OWNER'S MANUAL

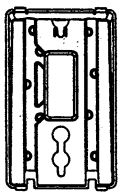
Unpacking

Carefully remove your cordless telephone from its shipping carton. If there is any visible damage, do not attempt to operate this equipment. Return it to the place of purchase.
Check to be sure you have all items that come with this cordless telephone system. You should have a HANDSET, BASE UNIT, BELT CLIP, AC ADAPTOR, MOUNTING BRACKET, TELEPHONE LINE CORD, SHORT TELEPHONE LINE CORD and OWNER'S MANUAL.

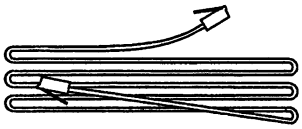
HANDSET



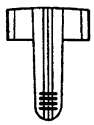
BASE UNIT



MOUNTING BRACKET

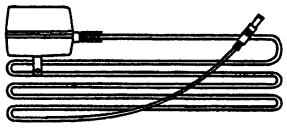


TELEPHONE LINE CORD



BELT CLIP

SHORT TELEPHONE LINE CORD



AC ADAPTOR

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IMPORTANT SAFETY INSTRUCTIONS

To reduce the risk of fire, electric shock and/or injury, always follow these basic safety precautions when using your cordless telephone equipment.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the telephone.
3. Unplug this telephone from the wall outlet before cleaning or replacing batteries. Do not use liquid cleaners or aerosol cleaners on this product. Use a damp cloth for cleaning or if necessary, use only a mild soap.
4. Do not use this telephone near a bathtub, kitchen sink, wash bowl, laundry tub, swimming pool, in a wet basement, or anywhere else where there is water.
5. Do not place this telephone on an unstable cart, stand or table. Incorrect placement of the phone could result in a fall causing serious damage to the phone.
6. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. Operate this telephone only with the correct electrical voltage shown on the marking label located on the BASE UNIT or in the Owner's Manual. If you are not sure of the voltage in your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not install the phone where people will walk on the cord.
9. Do not overload wall outlets or extension cords, since overloading can increase the risk of fire or electric shock.
10. Never push objects of any kind through slots in the phone. They could touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the telephone.
11. To reduce the risk of electric shock, do not take this telephone apart. When service or repair work is required on this telephone, take it to a qualified service representative. Opening or removing covers may expose you to dangerous voltage or other risks. Incorrect re-assembly can cause electric shock when the appliance is used.
12. Unplug this telephone from the wall outlet and consult a qualified service representative in any of the following situations:
    - **A.** When the power supply cord is frayed or damaged.
    - **B.** If liquid has been spilled into the telephone.
    - **C.** If the telephone has been exposed to rain or water.
    - **D.** If the telephone does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the telephone to normal operation.
    - **E.** If the telephone has been dropped or the case has been damaged.
    - **F.** If the telephone exhibits a distinct change in performance.

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Safety Instructions

13. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
14. Do not use the telephone to report a gas leak in the vicinity of the leak.
15. Never install telephone wiring during a lightning storm.
16. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
17. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
18. Use caution when installing or modifying telephone lines.

Battery Safety

CAUTION:

To reduce the risk of fire or personal injury, read and follow these instructions:

1. Use only the following type and size BATTERY PACK:

   Cordless Telephone Battery Pack
   3.6V, 600mAh
   Ni-MH Battery Pack
2. Do not dispose of the BATTERY PACK in a fire. It may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the BATTERY PACK. Released electrolyte from a battery is corrosive and may cause damage to the eyes or skin. Electrolyte may be toxic if swallowed.
4. Exercise care in handling the BATTERY PACK to prevent shorting the battery with conductive materials such as rings, bracelets and keys. The BATTERY PACK or conductor may overheat and cause burns.
5. Charge the BATTERY PACK provided with (or identified for use with) this product only in accordance with the instructions and limitations specified in this manual.

ATTENTION:

The product that you have purchased contains a rechargeable BATTERY PACK. The BATTERY PACK is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this BATTERY PACK into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

SAVE THESE INSTRUCTIONS

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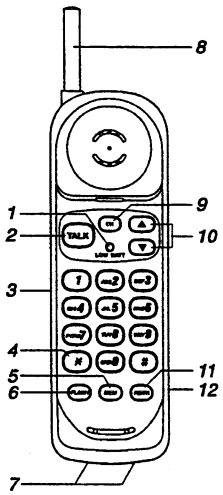
HANDSET Features



1. **IN USE/BATT LOW LED Indicator:** Blinks when the HANDSET is in TALK mode. Blinks and a "beep" sound will be heard when battery power is low.
2. **TALK Button:** Press to answer an incoming call or to place a call. Press to end a call. Press twice to stop paging.
3. **Headset Connection Jack**
4. **TONE Button:** Press to change the dialing mode temporarily from Pulse to Tone for Rotary Service Users. (Press once before entering numbers to access the answering system or electronic banking services, etc.)
5. **MEM Button:** Press to store phone numbers in memory or to call a number you have stored previously.
6. **FLASH Button:** Press to answer an incoming call if you have Call Waiting.
7. **CHARGE CONTACTS**
8. **ANTENNA**
9. **CHANNEL Button:** Press to change the operating channel when you hear interference.
10. **VOLUME CONTROL Buttons:** Adjust the volume level.
11. **RE/PA Button:** Press to redial the last number called. Press to insert a pause while dialing. (You will need the (RE/PA) button to dial numbers which use an alternative long distance access code.)
12. **RINGER Switch:** Turn to OFF position to disengage the ringer.

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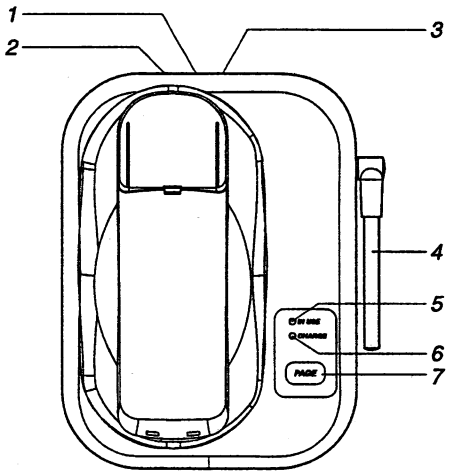
BASE UNIT Features



1. **POWER-IN CONNECTION JACK**
2. **TELEPHONE LINE CONNECTION JACK**
3. **TONE/PULSE Select Switch**
4. **ANTENNA**
5. **IN USE Indicator:** Lights up when the unit is ON or PAGE function is in use.
6. **CHARGE LED Indicator:** Lights up when the HANDSET is placed on the BASE UNIT for charging. We strongly recommend cleaning of the CHARGE CONTACTS periodically with a damp cloth.
7. **PAGE Button:** Press to page the HANDSET. Press any HANDSET buttons to stop.

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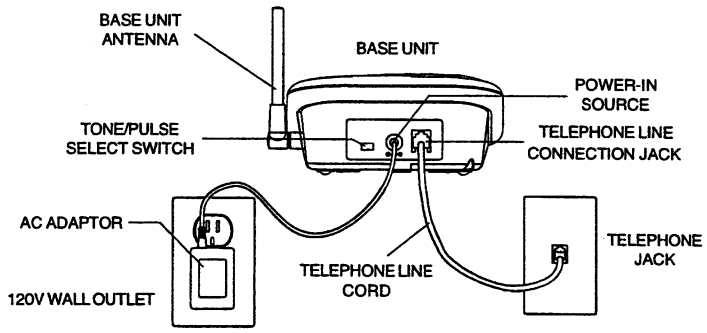
Installation



1. Insert the small plug on the end of the AC ADAPTOR into the POWER-IN CONNECTION JACK on the back of the BASE UNIT.
2. Plug the AC ADAPTOR into a 120VAC wall outlet.
3. Insert one plug of the TELEPHONE LINE CORD into the house TELEPHONE JACK and the other plug into the TELEPHONE LINE CONNECTION JACK on the back of the BASE UNIT. (If you have an older 4-prong TELEPHONE JACK, you will need an RJ-11C TELEPHONE JACK ADAPTOR. This adaptor is available at the same place you purchased your telephone.)
4. We recommend not placing this unit next to appliances. Doing so may cause interference.
5. TONE/PULSE Select Switch:
   - **A.** If your home is equipped with a tone dialing system, set the TONE/PULSE select switch to the TONE position.
   - **B.** If you have a rotary dialing system, set the TONE/PULSE select switch to the PULSE position.
   - **C.** If you are unsure which system you have, set the TONE/PULSE select switch to the TONE position. Press the TALK button on the HANDSET to get a dial tone, and press any button on the keypad except the zero. If the dial tone continues, you do not have tone dialing service. Press the TALK button on the HANDSET to hang up. Set the TONE/PULSE select switch to the PULSE mode and try again.

Press the TALK button to confirm that you have a dial tone. If you do not get a dial tone, review steps 1 through 5. If you still do not have a dial tone, refer to the Problem Solving section on page 12.

9. **Before initial use, charge the HANDSET for 12 hours.**

You are now ready to use your new Cordless Telephone.

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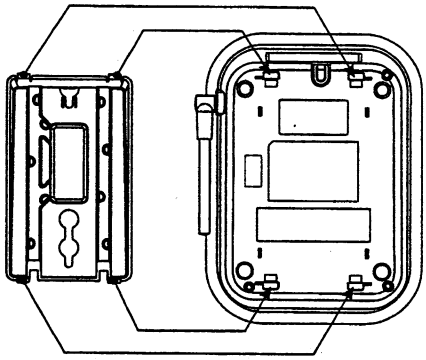
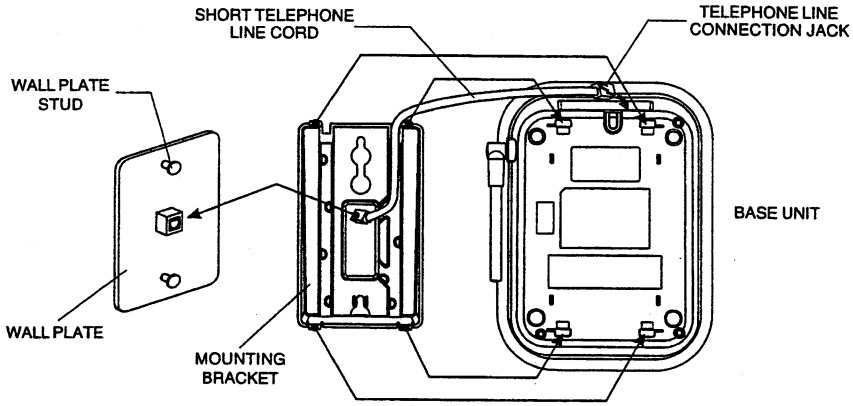
Installation

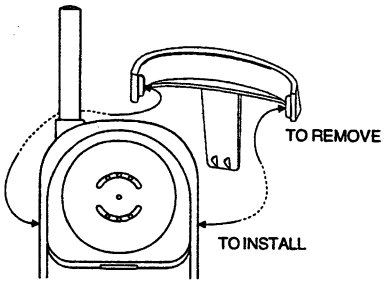
Desk Mounting



Wall Mounting



Belt Clip Mounting



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Basic Operation

Preparing for Use

Before you can use your cordless telephone, you must charge the HANDSET for 12 hours. Failure to do so will require recharging of the BATTERY PACK more often.

1. Place the HANDSET on the BASE UNIT for 12 hours.
2. After 12 hours, remove the HANDSET from the BASE UNIT.

Receiving Calls with the HANDSET on the BASE UNIT

1. When the phone rings, lift the HANDSET. The IN USE indicator will flash. (Note: The HANDSET RINGER Switch must be in the "ON" position for ringer to operate.)
2. Start your conversation.
3. To end your conversation, either press the TALK button or place the HANDSET on the BASE UNIT. If you place the HANDSET on the BASE UNIT charge cradle, you activate the automatic STANDBY feature.

Receiving Calls with the HANDSET off the BASE UNIT

1. When the phone rings, press the any button to answer the call. The IN USE indicator will flash.
2. Start your conversation.
3. To end your conversation, either press the TALK button or place the HANDSET on the BASE UNIT. If the HANDSET is placed on the BASE UNIT charge cradle, the automatic STANDBY feature is then activated.

NOTE: The BASE UNIT has no ringer and does not ring when receiving an incoming call.

Placing Calls

1. Press the TALK button. The IN USE indicator will light up.
2. Listen for a dial tone.
3. Dial the phone number.
4. When finished with your call, press the TALK button again. The IN USE indicator will turn off.

Redial Feature

1. If you get a busy tone, press the TALK button to hang up.
2. Press the TALK button again.
3. Listen for a dial tone.
4. Press the RE/PA button. This will automatically redial the last telephone number called.

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Basic Operation

Storing Numbers

1. Be sure the BASE UNIT IN USE indicator is off and the HANDSET is in STANDBY mode.
2. Press the MEM button.
3. Dial the number you want to store.
4. Press the MEM button again.
5. Dial the index number (0-9) where you want to store that number. You will hear one confirmation "beep".
6. Write the name of the person you will be calling with that number next to the corresponding index number on the Telephone Number Label.
7. Repeat steps 1 through 6 for other telephone numbers.

EXAMPLE: To store the number 555-1212 under the index number 1 on the keypad:

1 - Press the MEM button.
2 - Dial 555-1212.
3 - Press the MEM button again.
4 - Press 1 on the keypad.
5 - You have stored 555-1212 under button 1 on the keypad.

A total of 10 telephone numbers can be programmed in memory.

IMPORTANT: The maximum number of digits that can be stored for any phone number is 16 in PULSE or TONE mode. The maximum number of digits for mixed (TONE and PULSE in combination) dialing is 15. If you are using a switchboard system to access an outside line (such as an 8 or 9), press the RE/PA button to store a PAUSE.

Recalling Stored Numbers from Memory

1. Press the TALK button.
2. Press the MEM button.
3. Press the index number for the number you have stored. The stored number will be dialed automatically.

EXAMPLE: To recall number 555-1212 stored under button 1 on the keypad:
- Press the TALK button.
- Press the MEM button.
- Dial 1.

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Security Code

This telephone has an internal security code with 65,536 possible combinations. Each time you pick up the HANDSET, the code is randomly set to a new combination.
Communication between HANDSET and BASE UNIT may not be possible in any of the following situations:

1. After a power failure.
2. After relocating the BASE UNIT by disconnecting the AC ADAPTOR.
3. After replacing the HANDSET BATTERY PACK.

To reset, place the HANDSET on the BASE UNIT for 2 to 5 seconds.

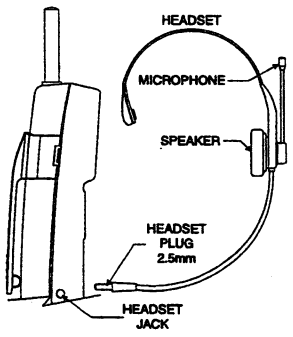
Out of Range Warning Tones

If you are too far away from the BASE UNIT, the HANDSET emits "beep" sounds to warn you that the background noise level is too high for proper communication between the HANDSET and the BASE UNIT. When you hear this sound, you should move closer to the BASE UNIT to reduce the noise level. Otherwise, the call will **automatically cut off**.

Using the Headset Jack

Your telephone can utilize a headset (not included) to be connected to your HANDSET for you to enjoy a hands-free communication.

When you plug in the headset plug into the HEADSET JACK, it automatically mutes the microphone and speaker of the HANDSET. Unplug the headset to return the HANDSET to normal use. The HEADSET JACK is compatible with 2.5mm headset plugs only.



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Battery Pack Information

Battery Pack Information

Use the following type and size battery pack:

3.6V, 600mAh, Ni-MH Battery Pack

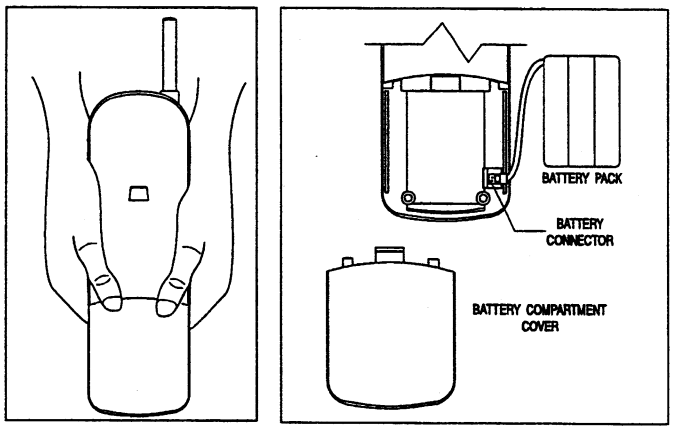
When the BATT LOW indicator starts to blink, a "beep" sound will be heard every 5 seconds. This indicates that the BATTERY PACK needs to be recharged.

Charge the battery pack at least once every 90 days of non-use to avoid battery failure. When the BATTERY PACK can no longer be charged, replacement of the BATTERY PACK will be necessary.

The BATTERY PACK used in your telephone may develop a condition known as "MEMORY". Once subjected to a regular short discharging routine, the BATTERY PACK assumes the discharging pattern it was subjected to. This is known as a "MEMORY" condition which causes rapid discharging shortening the BATTERY PACK charge span. If you believe your BATTERY PACK has developed a memory condition, do not charge the HANDSET until the BATTERY LOW indicator comes on. When it does come on, charge the HANDSET fully for 12 hours.

ATTENTION:

The product that you have purchased contains a rechargeable BATTERY PACK. The BATTERY PACK is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this BATTERY PACK into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.



Remove the HANDSET BATTERY COMPARTMENT COVER by pressing and sliding it down.

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Problem Solving

Phone does not work, check the following:

1. BASE UNIT is plugged into power source.
2. HANDSET is charged.
3. TONE/PULSE switch is in the right position.
4. TELEPHONE LINE CORD is plugged into the TELEPHONE JACK and TELEPHONE LINE CONNECTION JACK.

Range of phone limited, check the following:

1. BASE UNIT is centrally located in your residence.
2. BASE UNIT is not located near appliances.

No dial tone, check the following:

1. TELEPHONE LINE CORDS plugs are connected to the TELEPHONE JACK and TELEPHONE LINE CONNECTION JACK.
2. If you had a power failure or had unplugged the BASE UNIT, replace the HANDSET on the BASE UNIT for 2 to 5 seconds to reset the system.

Received signal flutters or fades, check the following:

1. BATTERY PACK in HANDSET is fully charged.
2. HANDSET is not too far from the BASE UNIT.

Interference on reception, check the following:

1. Noise may be picked up from electrical products in the home or electrical storms. Generally, this noise is a minor annoyance and should not be interpreted as a defect in your system.
2. Choose an alternate channel using the CH button on the HANDSET.

If after pressing the TALK button, you receive three beeps and no dial tone, check the following:

1. If you had a power failure or had unplugged the BASE UNIT, replace the HANDSET on the BASE UNIT for 2 to 5 seconds to reset the system.
2. BASE UNIT is plugged into the power source.

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Technical Information

This cordless telephone uses radio frequencies to allow mobility. There are certain difficulties in using radio frequencies with a cordless telephone. While these are normal, the following could affect the operation of your system.

Noise

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

Range

Because radio frequency is used, the location of the BASE UNIT can affect operating range. Try several locations in your home or business and pick the one that gives you the clearest signal to the HANDSET.

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 UNIT. You may hear clicks or hear the relay activate while you are not using the HANDSET. If the interference occurs frequently, it can be minimized or eliminated by lowering the height of your BASE UNIT ANTENNA or by relocating the BASE UNIT. You can check for interference before selecting the final BASE UNIT location by plugging in the phone.

NOTICE:

This cordless telephone uses radio communication between the HANDSET and the BASE UNIT 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. Units not containing coded access may be accessed by other radio communication systems. Cordless telephones must not cause interference to any licensed radio service.

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FCC Requirements

Federal Communications Commission Requirements

This equipment complies with Part 68 of FCC Rules. A label on the BASE UNIT of this equipment contains, among other information, the FCC Registration Number and the Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company.

The REN is also useful in determining the quantity of devices that you may connect to your telephone line and still allow these devices to ring when your telephone number is called. In most areas, but not all, the sum of the RENs for all devices connected to one line should not exceed five (5.0). To be certain of the number of devices that you may connect to your line, you should contact your local telephone company.

If your equipment should cause harm to the telephone network, the telephone company may temporarily disconnect your service. If possible, they will notify you in advance that temporary discontinuance of service may be required. However, when advanced written notice is not possible, the telephone company may temporarily discontinue service without notice if such action is necessary under the circumstances. The telephone company may make changes in its communication 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 of the Federal Communications Commission. **Do not attempt to repair or modify this equipment.**
WARNING: Changes or modifications not expressly approved by the party responsible for its compliance could void the user's authority to operate the equipment.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the BASE UNIT of the cordless telephone should not be placed on or near a TV or VCR. If interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference.

This equipment should not be used on coin telephone lines. Connection to party line service is subject to state tariffs. If trouble is experienced, disconnect this equipment from the telephone line to determine if it is causing the malfunction. If the equipment is determined to be malfunctioning, its use should be discontinued until the problem has been corrected.

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FCC Requirements

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.

1. Re-orient or relocate the receiving ANTENNA.
2. Increase the distance between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio / TV technician for help.

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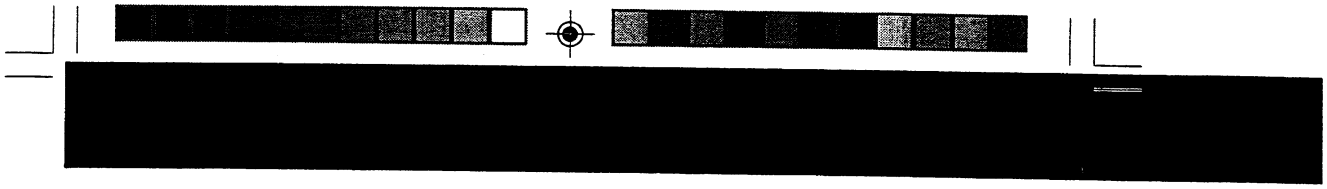

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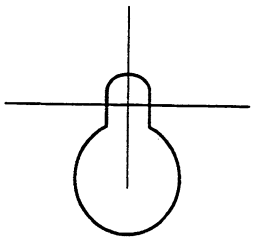
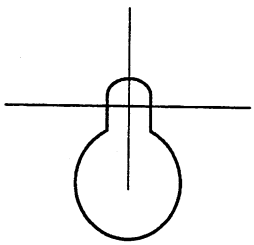
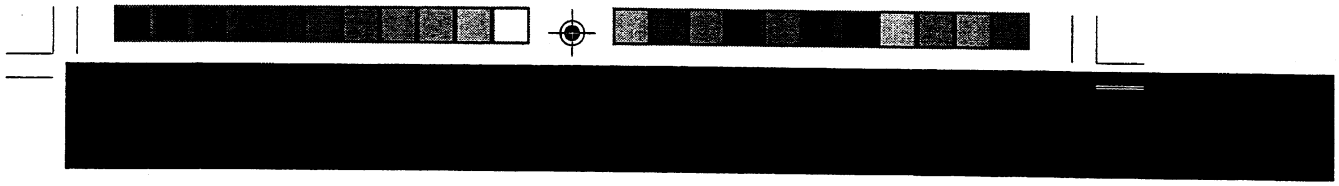
Wall Mount Template



This page serves as a template for attachment of screws to the wall when mounting this telephone on the wall.

1. Cut out this page.
2. Use this template to determine the distance between screws when mounting this phone on the wall.
   The two cross hairs identify where to attach the screws.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