

**Lucent Technologies**  
Bell Labs Innovations



# **TRANSTALK 9000**

MDC 9000 Cordless Telephone  
Installation

503-801-101  
Issue 1  
May 1994

## **Notice**

Every effort was made to ensure that the information in this booklet was complete and accurate at the time of printing. However, information is subject to change.

## **Federal Communications Commission (FCC) Information**

For details, see "FCC Information."

## **Security**

As a customer of new telecommunications equipment, you should be aware of the significant and growing problem of theft of long distance services by third parties, known commonly as toll fraud. It is particularly important that you understand and take appropriate steps to deal with this crime because under applicable tariffs, you will be responsible for payment of associated toll charges. AT&T cannot be responsible for such charges and will not make any allowance or give any credit resulting from toll fraud. Toll fraud can occur despite the preventive efforts of network providers and equipment manufacturers.

Toll fraud is a potential risk for every customer with telecommunications equipment having one or more of the following features: (1) remote access, (2) automated attendant, (3) voice mail, (4) remote administration and maintenance, and (5) call forwarding (remote). This is not a product or design defect, but a risk associated with equipment having one or more of the features described above. If your new telecommunications equipment possesses any of these features, please consult the relevant portion of your documentation for further details and specific procedures to reduce the risk of toll fraud or contact your AT&T dealer for further details.

## **Trademarks**

PARTNER, MERLIN, MERLIN LEGEND, DEFINITY and SYSTIMAX are registered trademarks of AT&T. Supra is a registered trademark of Plantronics, Inc.

## **Warranty**

AT&T provides a limited warranty for this phone; see "AT&T Limited Warranty."

## **Ordering Information**

The order number for this booklet is 503-801-101. The order number for the *MDC 9000 Cordless Business Telephone Quick Reference* is 503-801-100. To order additional copies of these reference materials, call 1 800 432-6600 (in Canada 1 800 255-1242). To order parts and accessories, see "Ordering Replacement & Optional Parts."

## **Support Telephone Numbers**

In the U.S., AT&T provides a toll-free customer helpline 24 hours a day. Call the AT&T Helpline at 1 800 628-2888 if you need assistance when installing, programming, or using your cordless phone.

For assistance in Canada, contact your local AT&T Authorized Dealer.

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# Introduction

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Congratulations on the purchase of your new **MDC 9000 Cordless Business Telephone**, MDC stands for Multi-line Digital Cordless. Advanced radio technology and digital transmission provides more power, extended range, greater clarity, and higher security. This phone was designed to AT&T's high standards for reliability and convenience.

The **handset** is portable. This portability enables you to move about your work area or home with freedom, without giving up the features of a corded phone.

An optional headset can be connected to the handset to allow hands-free conversation. For ordering information, see "Ordering Replacement & Optional Parts."

This booklet describes MDC 9000 installation. Also included with the phone is a *Quick Reference* that contains information about displays, controls, base connectors, compatibility and troubleshooting.

After you have installed your phone and understand its controls and displays, use the programming and call handling instructions that come with your phone system. Follow the user instructions for the phone type identified below:

- PARTNER<sup>®</sup> systems: the MLC-6 Cordless Telephone: **the MDC 9000 is fully compatible with the PARTNER family of phone systems.**
- MERLIN<sup>®</sup>, MERLIN Plus, and MERLIN II systems: a 5-button phone.
- MERLIN LEGEND<sup>®</sup> systems: a 10-button ATL set.
- System 25: a 10-button set.
- System 75, System 85, and DEFINITY<sup>®</sup> systems: a 7303s set.

Refer to "MDC 9000 Compatibility" later in this booklet for a list of functional differences when using a MERLIN, MERLIN Plus, MERLIN II, MERLIN LEGEND, System 25, System 75, System 85, or DEFINITY phone system.

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## **Privacy Information**

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This telephone is designed to protect the privacy and security of your voice conversation. The set uses continuously changing radio frequencies and digital encoding techniques to make it impossible for eavesdropping to occur through the use of commercially available analog radio scanners.

## **Automatic Security Coding**

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This telephone has a digital security code that is automatically changed every time you place the handset in the base unit for 10 seconds or more. This code prevents unauthorized use of your line and also prevents a user with another cordless handset from dialing calls on your line.

## **Safety Information**

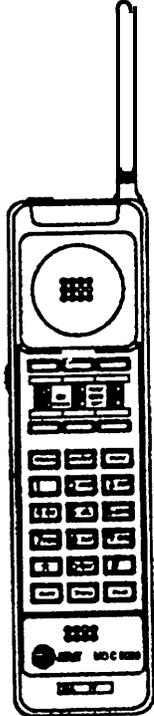
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Before installing the telephone, please read and understand the safety instructions in "Installation." This booklet also contains instructions related to safety labels on the product:

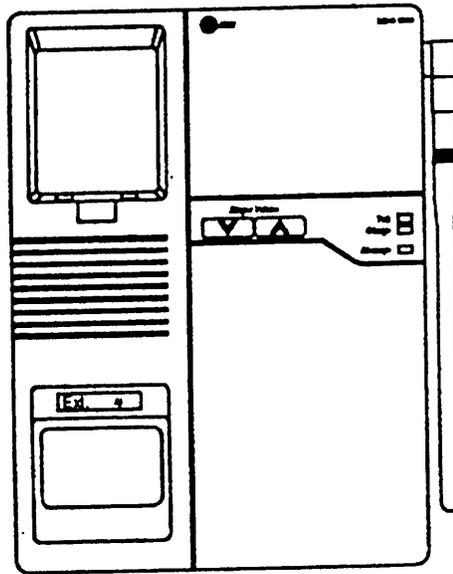
- ▲ WARNING** indicates the presence of a hazard that *can* cause severe or fatal personal injury if the hazard is not avoided.
- ▲ CAUTION** indicates the presence of a hazard that *will* or *can* cause minor personal injury or property damage if not avoided.

# Parts List

Along with this booklet, the box should contain the items shown below. If it does not, call the AT&T Helpline at 1 800 628-2888. In Canada, contact your local AT&T Authorized Dealer.



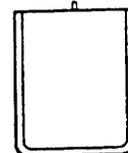
Handset



Base



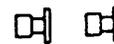
Carrying Holster



Battery Pack



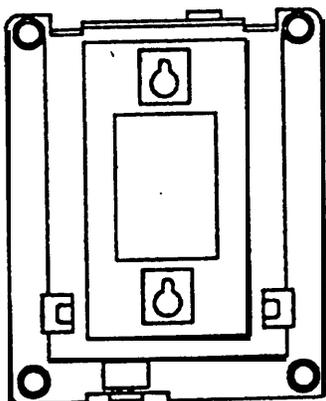
Phillips Head  
Wood Screws (2)



Mounting Sleeves (2)



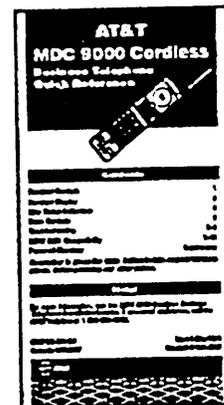
7-foot (2.3 m)  
Power Cord and  
Standard AC Adapter



Mounting Stand



14-foot (4.6 m)  
Telephone Line Cord



Quick Reference

# Installation

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## **IMPORTANT:**

Before beginning installation, please read and understand “Important Safety Instructions” and “Additional Safety Instructions for Installation Personnel” on the following pages.

## **Important Safety Instructions**

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Always follow these basic safety precautions when installing or using this product to reduce risk of injury from fire or electric shock.

**Make sure that the base is unplugged before you install.**

- ▲ The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.**
  
- ▲ WARNING: Risk of Electric Shock**  
Failure to properly ground this product will result in a risk of electrical shock, which can cause serious personal injury. This product requires a 3-prong AC power receptacle for safe operation. You should have your receptacle checked by a qualified electrician before connecting this equipment.
  
- ▲ WARNING:**  
The Rechargeable battery contains nickel and cadmium. Do not burn or puncture the battery. Like other batteries of this type, if it is burned or punctured, it could release toxic material which could cause injury. Do not dispose of it in household garbage. For information about recycling or proper disposal, consult your local solid waste (garbage) collection or disposal organization.

**SAVE THESE INSTRUCTIONS**

- 
- Read and understand all instructions in this booklet before using this product.
  - Observe all warnings and instructions marked on the product.
  - Unplug this product from wall outlets and telephone jacks before cleaning. Clean exposed parts with a soft, damp cloth. Do not use liquid or aerosol cleaners.
  - Do not use the product near water or when you are wet. If the product comes in contact with any liquids, unplug the power cord and telephone line cords immediately. Do not plug the product back in until it has dried thoroughly.
  - If you suspect a gas leak, report it immediately, but use a telephone away from the area in question. The telephone's electrical contacts could generate a tiny spark. While unlikely, it is possible that this spark could ignite a heavy concentration of gas. This product is not approved for use in areas labeled by the Occupational Safety and Health Administration (OSHA) as "explosive environments." Only "Explosive Atmosphere Telephones" may be used in such hazardous environments.
  - Never push objects of any kind into this telephone through housing slots, since the objects may touch hazardous voltage points or short out parts that could result in a risk of electric shock. Never spill liquid of any kind on the telephone.
  - Install this product securely on a stable surface. Damage may result if the product falls.
  - Install this product in a protected location where no one can step on or trip over power and line cords. Do not place objects on the cords that may cause damage or abrasion.
  - Use only the Model GBCS power supply shipped with this product.
  - Use only the correct power source. If you are not sure of the power supply to your location, consult your local power company.

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- Use only the battery pack model indicated in “Ordering & Optional Parts.”
  - This device uses a 3-prong plug in continental U.S. locations. Such plugs are designed for your safety. Do not attempt to defeat this purpose. If your wall outlet will not accept the plug, the outlet should be replaced by an electrician.
  - Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it. Do not overload wall outlets as this can result in the risk of fire or electric shock. Do not staple or otherwise attach the AC power supply cord to building surfaces.
  - Slots and openings in the housing and the back or bottom are provided for ventilation. To protect the housing from overheating, these openings must not be blocked or covered. Therefore, do not place the product on a bed, sofa, rug, or other similar surface. Also, do not place this product in an enclosed area unless proper ventilation is provided.
  - Never place this product near or over a radiator or heat register.
  - Unplug this product from the wall outlet, remove the line cord from the modular wall jack, and refer servicing to qualified service personnel under the following conditions:
    - When the power supply cord or plug is damaged or frayed.
    - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
    - If the product has been dropped and the housing has been damaged.

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- This product should be serviced by (or taken to) a qualified service center when service or repair work is required. Do not open the product, there are no user serviceable components inside.

## **Additional Safety Instructions for Installation Personnel**

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- Install the product to meet all environmental and electrical requirements listed in this booklet.
- Do not install telephone wiring during a lightning storm.
- Do not install telephone jacks in a wet location unless the jack is specifically designed for wet locations. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- All wiring that connects to this equipment and becomes part of the building wiring must be a minimum of CLASS 2 or U.L. Listed Communications cable.

### **⚠ CAUTION:**

This equipment is for installation on AT&T PARTNER, PARTNER Plus, PARTNER II, MERLIN, MERLIN Plus, MERLIN II, MERLIN LEGEND, System 25, System 75, System 85, and DEFINITY phone systems only.

### **⚠ WARNING:**

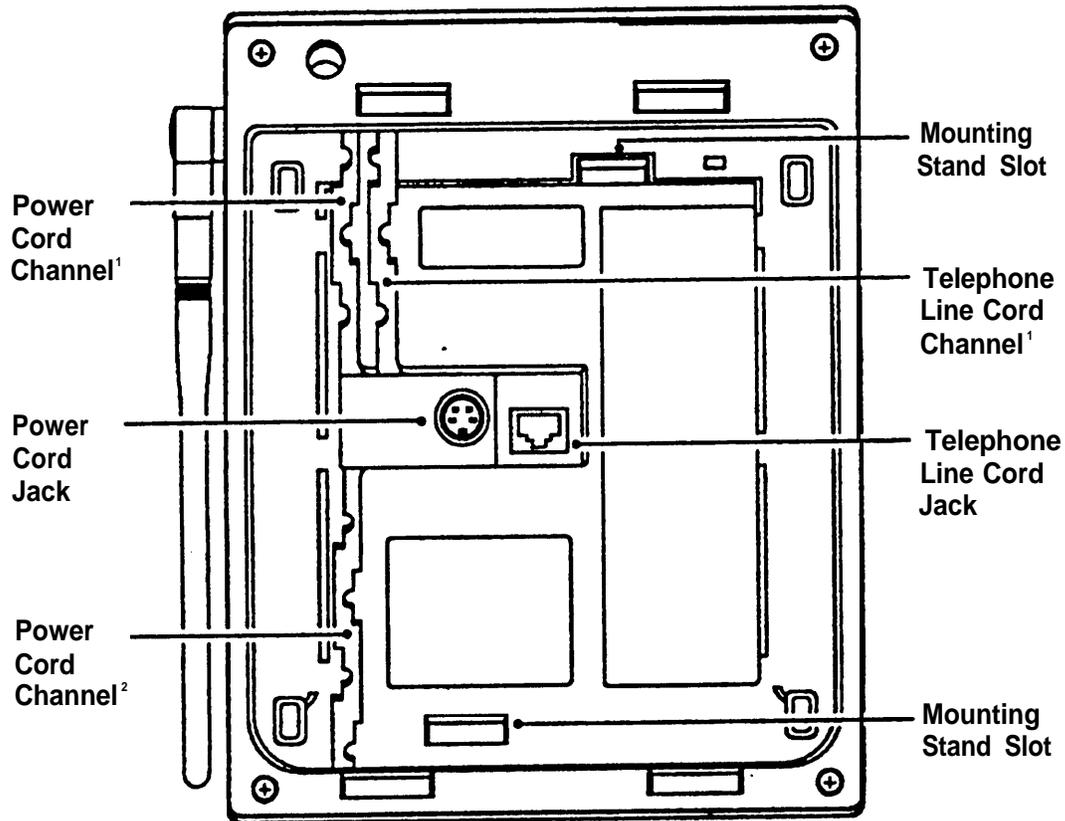
Installation of this equipment for In-Range Out of Building (IROB) conditions requires the use of protectors. See the documentation that came with your phone system for more information.

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## Base Connectors

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Before you install your telephone, familiarize yourself with these connectors on the underside of the base.



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<sup>1</sup>For use only when installing the base on a desk.

<sup>2</sup>For use only when installing the base on a wall.

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## Positioning the Base

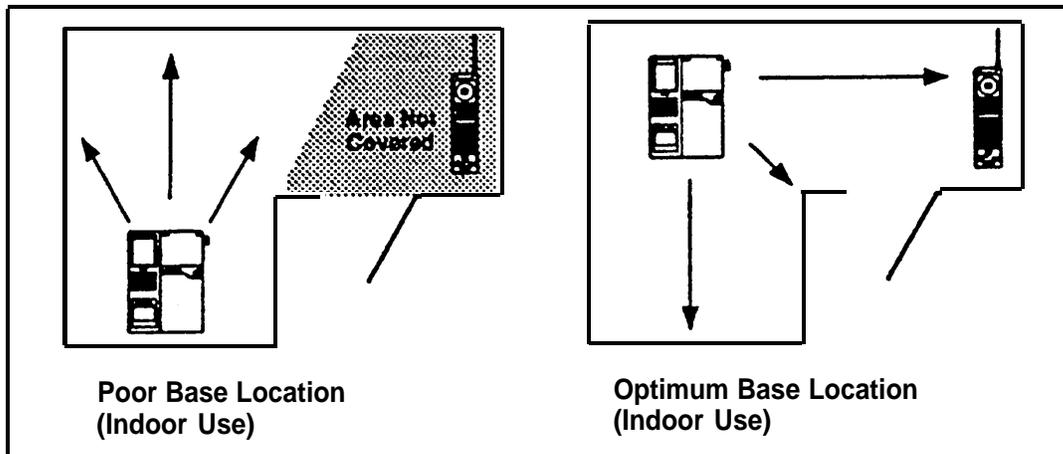
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This phone uses radio transmissions to communicate. Its range depends on your particular operating environment, and the range can be improved by placing the base in an optimum location. The base can be placed on a desk or mounted on a wall.

Before you install the phone, note the following considerations regarding its location and use:

- Mount the base near the center of the area in which the handset will be used, but at least *20 feet (6.6 m) away from the phone system switch/control unit.*
- Install the base within 6 feet (2 m) of a properly grounded 3-prong electrical outlet that is not controlled by an on/off switch.
- If your phone system uses an uninterruptible power supply, such as a backup generator, be sure to connect the base for the cordless phone to that power supply.
- The base should *not* share the same power line or be within 6 feet (2 m) of electromagnetic equipment with microprocessors such as personal computers, facsimile machines, 900 MHz wireless LANs and other equipment, phone system control units, uninterruptible power supplies (UPS), copier machines, or electric motors and industrial machinery. A distance of 20 feet (6.6 m) is advisable for minimum interference.
- The base should be located at least 3 feet (1 m) from metal sources. These include metal reinforced ceilings, metal window frames, concrete reinforced with metal, sheet metal walls, steel I-beams, metal studs in walls, screens, and fences.
- Some solid structures, such as moist concrete walls, brick walls, and steel reinforced concrete walls, will inhibit the range.
- If more than one cordless phone is being used, do not place a handset from one cordless phone into the base of another. If this accidentally occurs, place each handset in the correct base for at least 10 seconds.

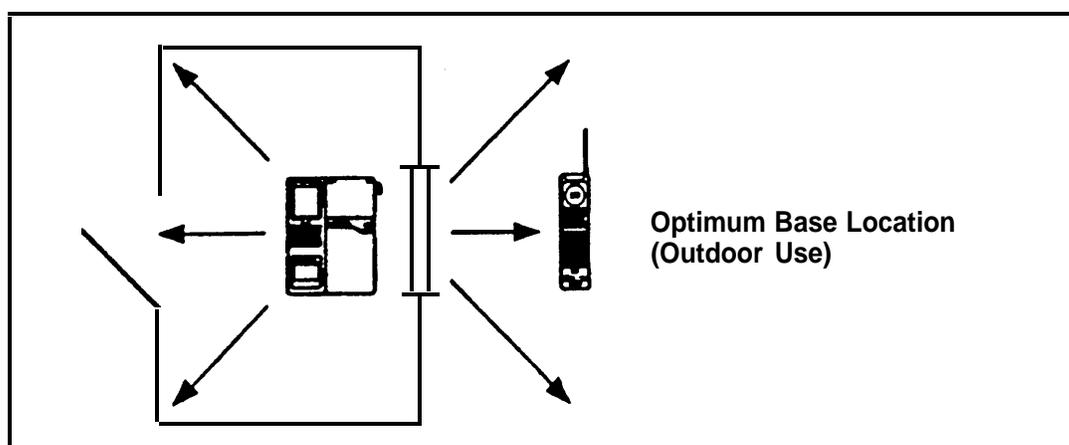
The handset does not need to be located with the base except for charging. **For best coverage, place the base in a central location** (see the figure below), and avoid metal objects which are in the line of sight to the operating area of the handset.



**NOTE:**

If Radio Frequency Interference (RFI) is experienced, moving the base to a higher level, or moving it just 2 feet (.6 m) to a new location can significantly improve the transmission.

For outdoor use, place the base near a window facing the outdoor area where the handset will be used (see the figure below). Do not install the base where it will be exposed to direct sunlight.



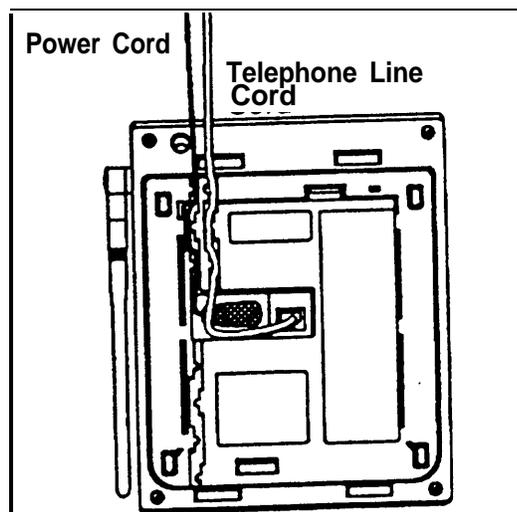
If you have questions about the installation of your cordless telephone or the location of the base, refer to "Troubleshooting" in the *Quick Reference*, or call the AT&T Helpline at 1 800 628-2888.

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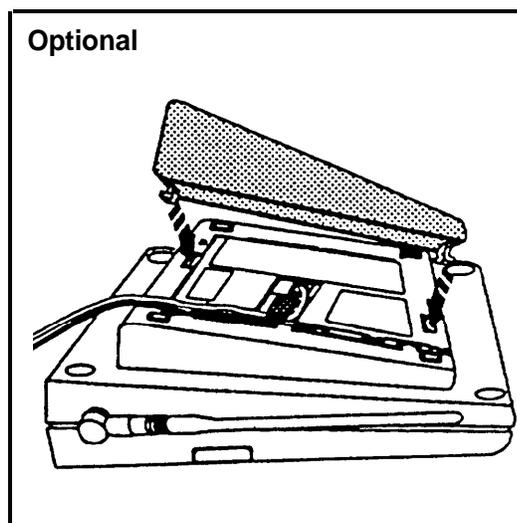
## Installing the Base on a Desk

- Unit must be unplugged before Installing
- See “Parts List” and “Base Connectors” earlier in this booklet for additional picture detail

**1** Plug the telephone line cord into the telephone line cord jack on the underside of the base, then insert the power cord/AC adapter into the power cord jack next to the telephone line cord jack. Route each cord through its channel (as shown), and out the back of the base.

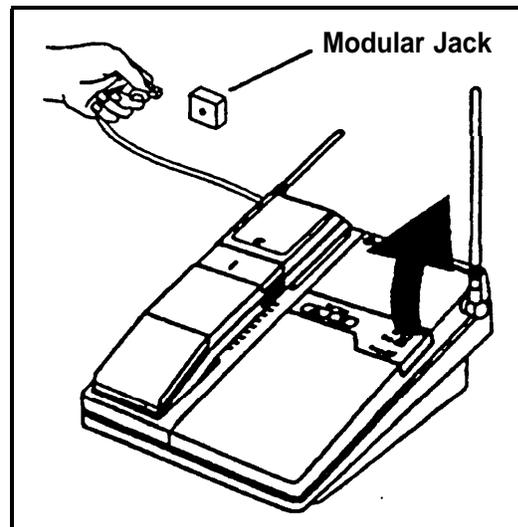


**2** Optionally, you can install the mounting stand to raise the angle of the phone. To attach the stand to the base of the phone, gently place the phone upside down with the low end of the phone to the right. Insert the tab on the narrow end of the stand into the right slot on the base of the phone. Then insert the other tab into the left slot, pushing the stand down and slightly inward until the tab locks into place.

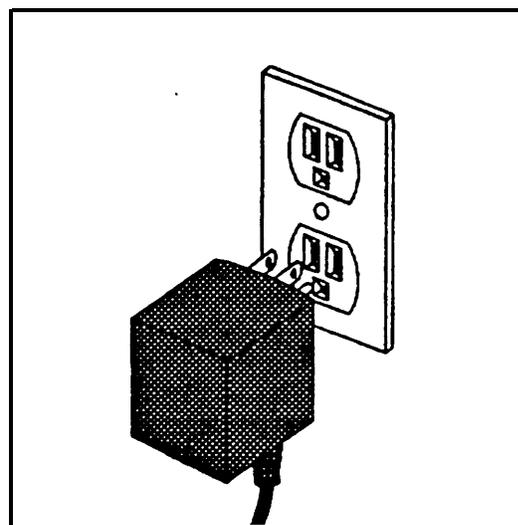


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**3** Insert the other end of the telephone line cord into a modular jack. Rotate the base antenna until it is standing upright.



**4** Plug the power cord/AC adapter into a properly grounded 3-prong wall outlet.

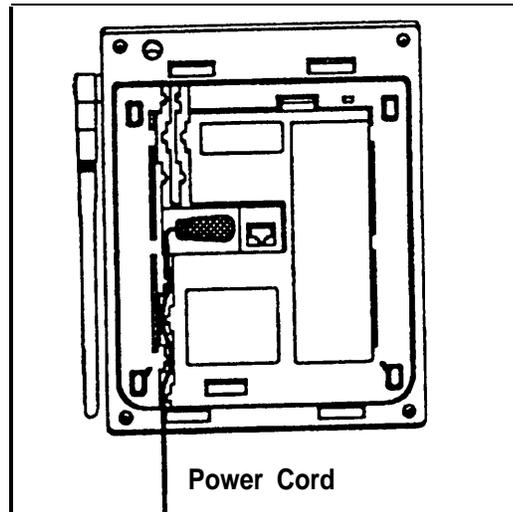


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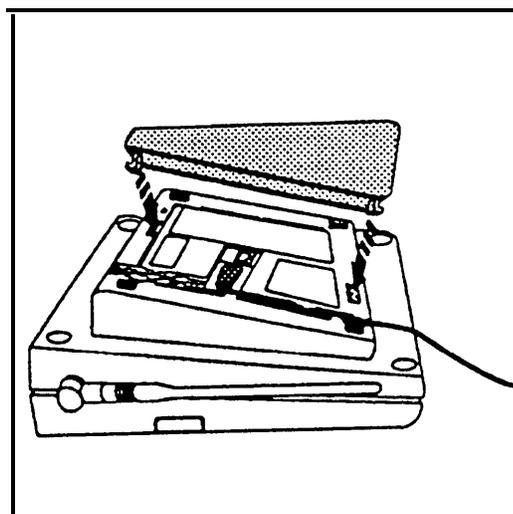
## Installing the Base on a Wall

- Unit must be unplugged before installing
- See “Parts List” and “Base Connectors” earlier in this booklet for additional picture detail

**1** Plug the power cord/AC adapter into the power cord jack on the underside of the base. Route the power cord through its channel and out the front end of the phone (as shown).

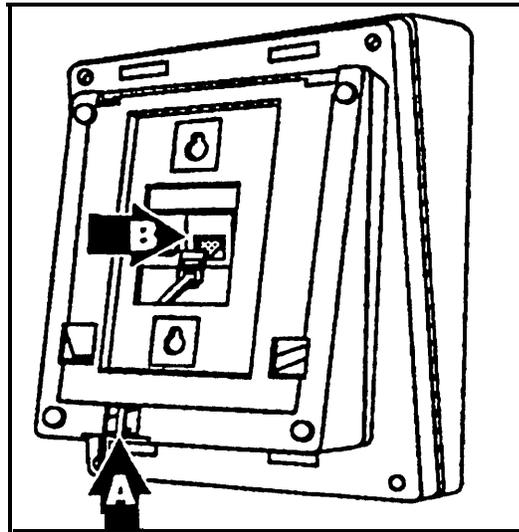


**2** Attach the mounting stand to the base of the phone as follows: Gently place the phone upside down with the low end of the phone to the right. Insert the tab on the narrow end of the stand into the left slot on the base of the phone. Then insert the other tab into the right slot, pushing the stand down and slightly inward until the tab locks into place.

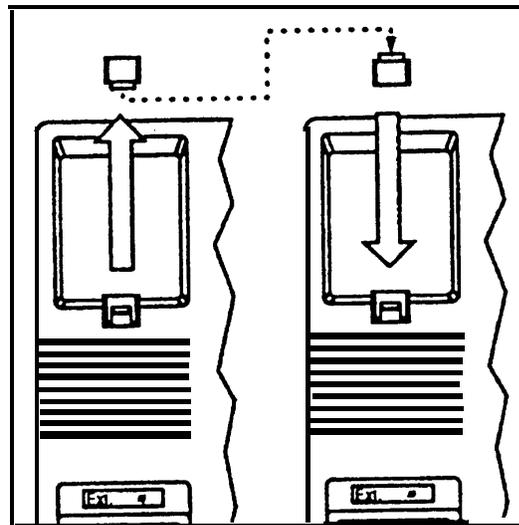


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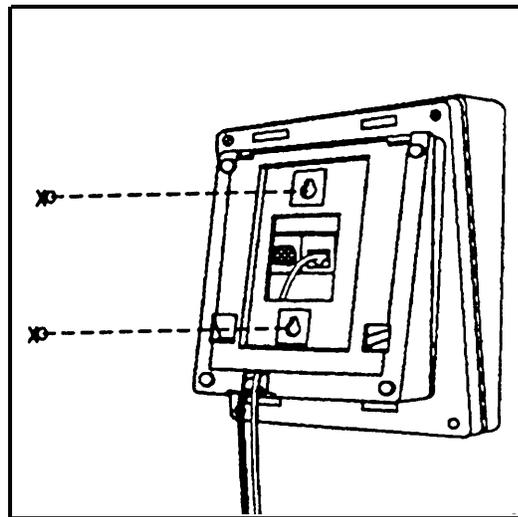
**3** Insert the telephone line cord through the hole indicated on the mounting stand (A). Push the telephone line cord up and then insert it into the telephone line cord jack (B) on the underside of the base.



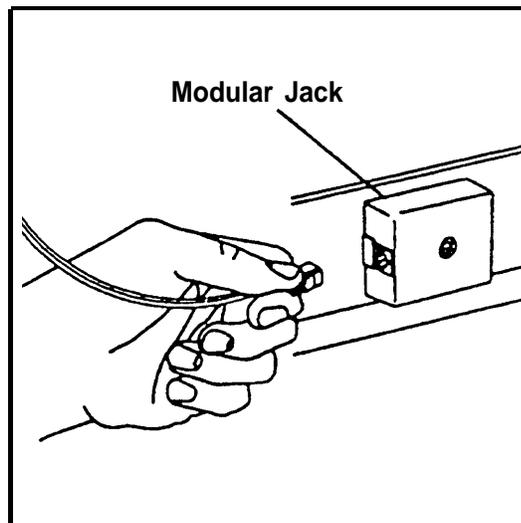
**4** Reverse the handset hook on the base. Press the hook down and slide it up out of its slot, then turn the hook upside down and replace it in the slot, with the top protruding so the handset can hang from it.



**5** Mark the screw locations on the wall using the Wall Mount Template on the inside back cover of this booklet. Choose a location backed by a wooden stud (if unavailable, use toggle bolts instead of the wood screws). Lightly tap a nail into the marks on the wall to start holes. Then slip each screw into a mounting sleeve (with screw head in wider barrel of sleeve) and screw into wall, leaving the screw heads approximately  $\frac{1}{4}$ " (6 mm) away from the wall. Place the base over the screws, then slide it downward slightly to lock it into place.

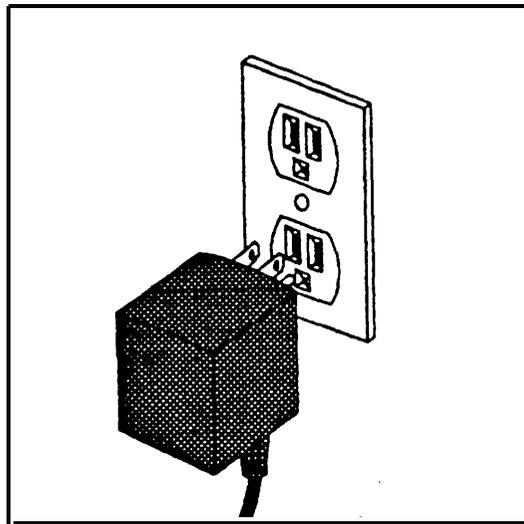


**6** Plug the other end of the telephone line cord into a modular jack on the wall.



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**7** Plug the power cord/AC adapter into a properly grounded 3-prong wall outlet.

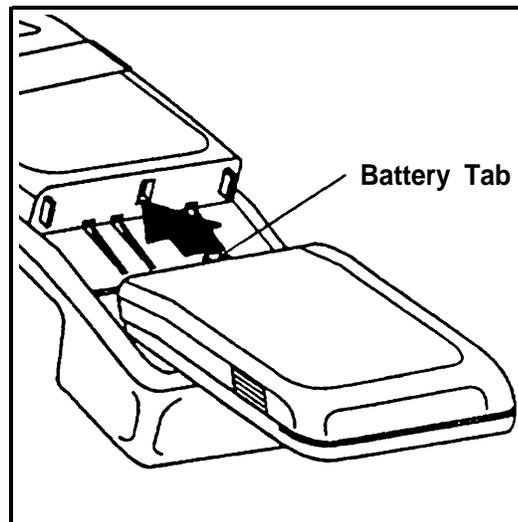


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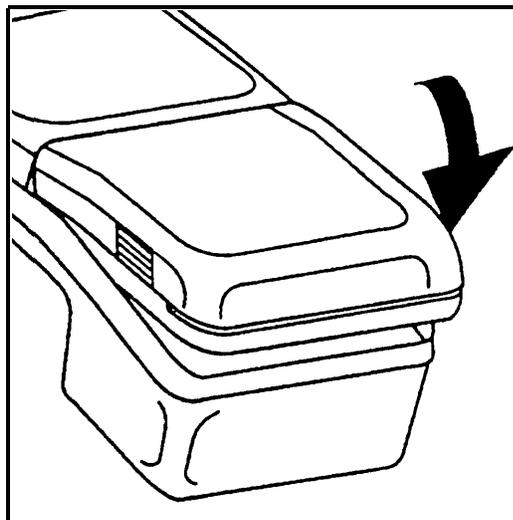
## Inserting and Removing the Battery Pack

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**1** Insert the tab on the battery pack into the hole along the top edge of the battery compartment on the handset.

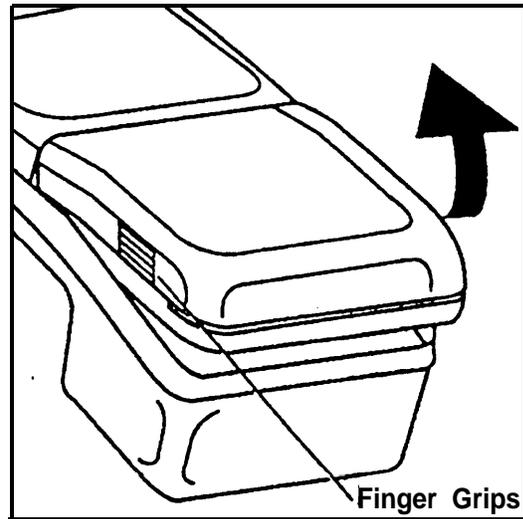


**2** Press the battery pack downward to lock it into place.



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**3** To remove the battery pack, grasp the finger grips on both sides of the battery pack, then gently pull the battery pack upward and out.



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## **Charging the Battery**

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**You must charge the battery for 12 hours before using the phone for the first time.**

To charge the battery, simply place the handset on the base, making sure that the base is plugged into an AC outlet. The Charge LED on the base lights to show that the handset is seated properly, and the battery is charging. It takes about 12 hours to fully charge a drained battery.

After the battery is charged, you will be able to use the handset for about 3 hours of talk time. During idle periods, the handset can be out of the base for approximately 22 hours before it needs to be charged.

When power in the handset battery is low, the **BATT** indicator appears in the handset display. (The indicator blinks if the handset is on and flashes if the handset is off.) The handset also emits four beeps if the handset is on or when *any* button is pressed. The handset repeats the four beeps each time the handset is taken out of the base until the battery is recharged.

## **Replacing the Battery Pack**

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If you are experiencing problems, refer to “Troubleshooting” in the *Quick Reference*. To order a replacement battery pack, see “Ordering Replacement & Optional Parts.”

**▲ WARNING:**

The Rechargeable battery contains nickel and cadmium. Do not burn or puncture the battery. Like other batteries of this type, if it is burned or punctured, it could release toxic material which could cause injury. Do not dispose of it in household garbage. For information about recycling or proper disposal, consult your local solid waste (garbage) collection or disposal organization.

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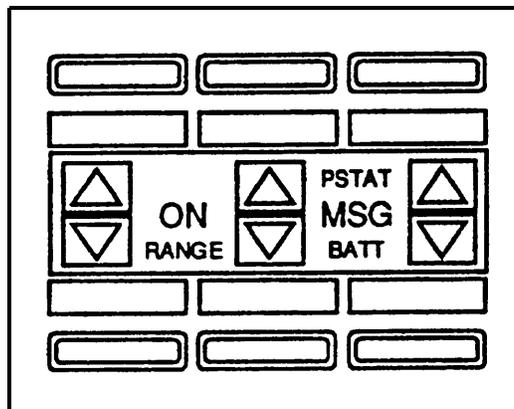
## Testing the Installation

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### NOTE:

Before testing the installation, make sure the telephone line cord on the base is plugged into a modular jack and the power cord is plugged into a wall outlet. Also, verify that the battery is charged (see "Charging the Battery" on the previous page) and that the antenna on the base is in an upright position.

1. After charging the battery, remove the handset from the base.
2. Turn the handset on by pressing [On/Off] .  
**ON** appears in the handset display.
3. On the base, hold down *both* Ringer Volume controls ( [V] and [^] ) *simultaneously* for at least three seconds.  
*The handset emits two beeps. The Talk, Charge, and Message LEDs on the base light. All indicators on the display appear as shown below:*

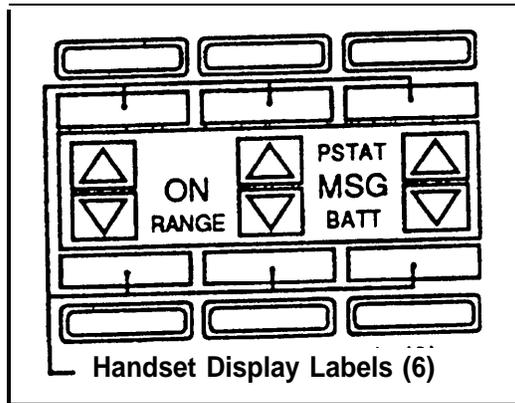


4. Release the Ringer Volume controls.  
*The handset and base ringers sound, and the handset returns to the "On" state.*

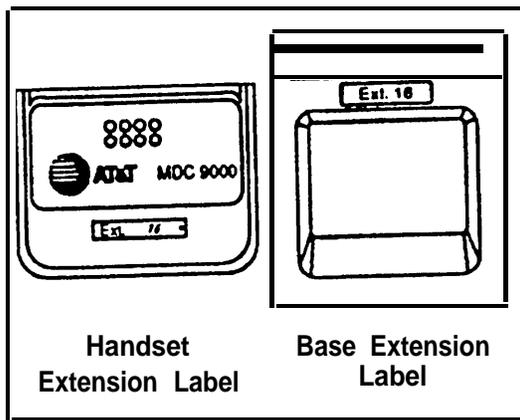
If the ringers do not sound, the three LEDs on the base do not light, or the indicators do not appear on the handset display, call the AT&T Helpline at 1 800 628-2888.

## Filling Out Labels

Remove the protective film from the handset display. Using a *ball-point pen or pencil only*, write the following information on the erasable labels and directory card:



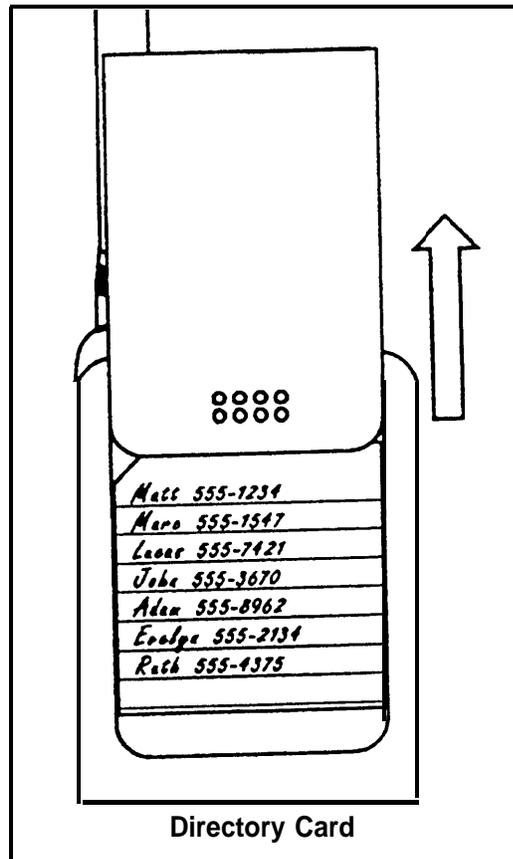
On the handset display labels, write line numbers or programmed features assigned to each of the outside line/programmable/intercom/drop buttons. See "MDC 9000 Compatibility" later in this booklet.



On the handset extension label (below the mouthpiece) and on the base extension label, write the phone's extension number.

### NOTE:

If you use a pencil or *ball-point* pen on these labels, you will be able to erase the information later. Do *not* use felt-tip or other types of non-erasable markers. Also, do not remove the labels.



On the directory card, write any important phone numbers, extension numbers, or Speed Dial numbers you want as a reference. The directory card is beneath the cover that contains user instructions, on the top back of the handset (behind the antenna). To open the cover, push up on the dots on the cover until the cover locks into place.

# Handset Range Indicators

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This phone provides an audible and a visual warning signal to alert you when the handset is too far from the base:

- If the handset is off and you press [On/Off] to make a call, the handset emits two beeps and the RANGE indicator appears in the display. If you want to check the range prior to making a call, press [Status] when the handset is off. If you do not get the warning signals mentioned previously, you are in range to make a call.
- If you are active on a call and move out of range, the STAT indicator appears in the handset display.

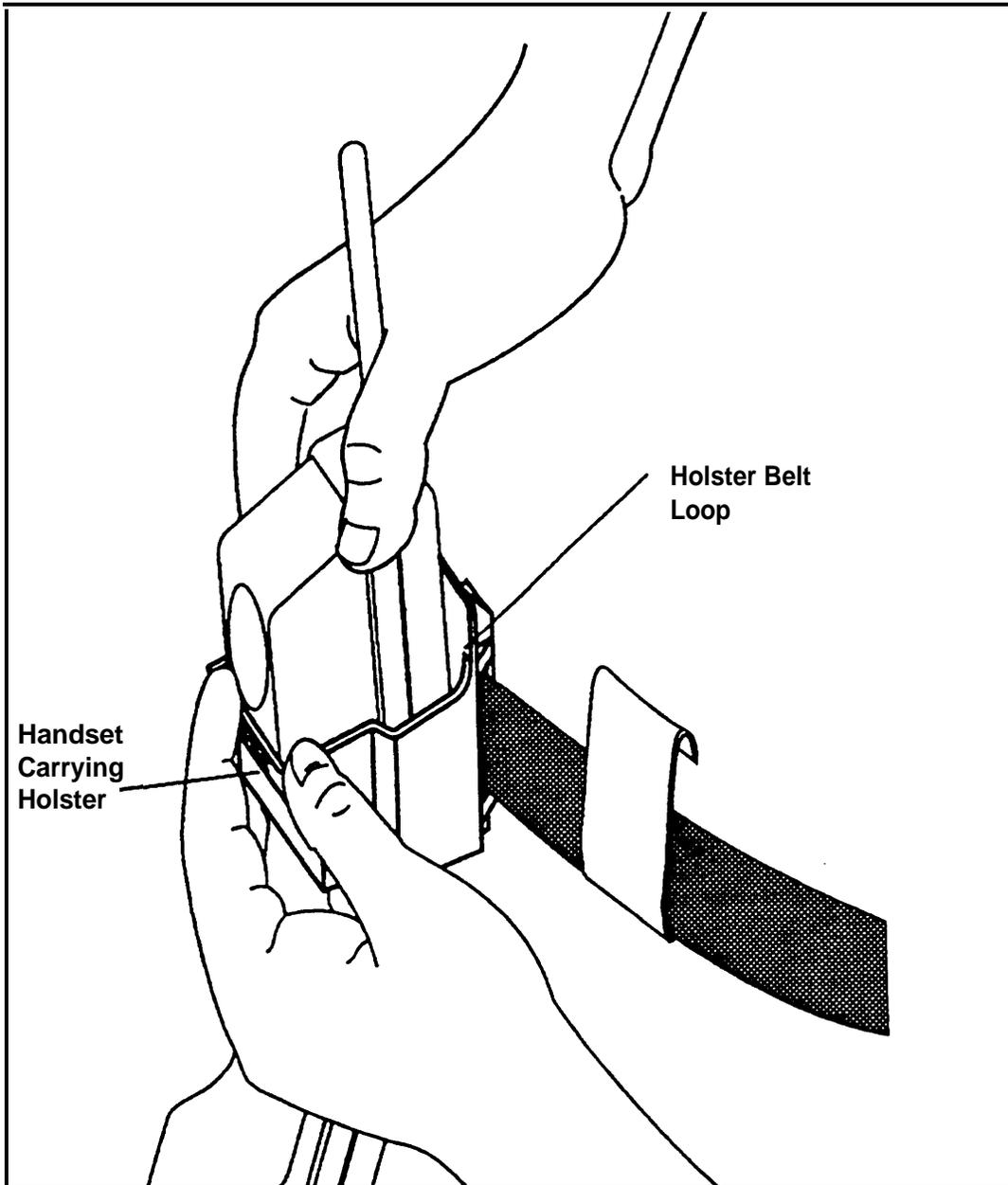
In either case, you should move the handset closer to the base. Press the [Status] button to update the display.

Refer to “Troubleshooting” in the *Quick Reference* for additional information about out-of-range conditions.

# Using the Carrying Holster

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The carrying holster allows you to carry the handset with you without having to hold it in your hand. To attach the holster to your belt, simply thread your belt through the holster's belt loop. Then slip the handset into the holster.



To easily remove the handset from the carrying holster, place one hand on the holster to hold it in place (as shown in the picture above), then pull the handset out with the other hand.

# Headsets

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This phone is equipped with a single-prong headset jack on the left side of the handset (near the earpiece volume control switch). Headsets assist in call answering and provide hands-free operation. AT&T offers a headset designed for use with your cordless phone. See “Ordering Replacement & Optional Parts” for more information.

**NOTE:**

The range of the handset is diminished when you are using the headset. Therefore, you may need to move closer to the base, or move the base closer to your operating area.

## Using a Headset

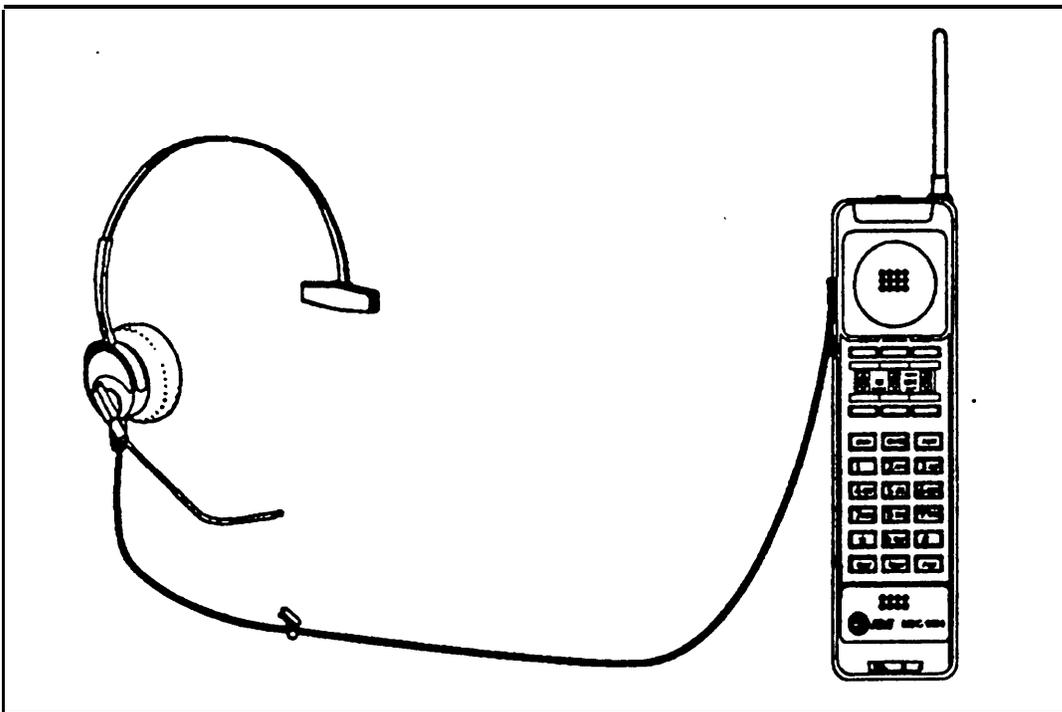
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To use a headset, simply plug the headset cord into the headset jack on the handset.



**CAUTION:**

Do not plug any other device into the headset jack.



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If desired, the headset cord can be removed from the handset without the call being dropped. You can then use the handset as you normally would.

**NOTE:**

Calls cannot be heard on the handset when the headset is connected to the headset jack. The handset microphone is also disabled.

### **Using the Headset On/Off Button**

For convenience when using the carrying holster, the headset [On/Off] button near the antenna should be used. This button will become active **only** when the headset cord is plugged into the headset jack. It is identical in function to the [On/Off] button to the left of the [Hold] button.

### **Answering Calls with a Headset**

When you receive a call, you will hear a ringing tone coming from the handset (you will not hear a tone from the headset itself). To answer the call, press the headset [On/Off] button near the antenna (or [On/Off] to the left of [Hold] if the handset is not in the holster).

### **Placing Calls with a Headset**

To place a call with a headset:

1. Remove the handset from the holster.
2. Press the [On/Off] button near the antenna to access an available line.
3. Dial the number as described in the user instructions that came with your phone system.

# MDC 9000 Compatibility

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After you have installed your phone and understand its controls and displays, use the programming and call handling instructions that come with your phone system; follow the user instructions for the phone type identified below:

- PARTNER systems: the MLC-6 Cordless Telephone; **the MDC 9000 is fully compatible with the PARTNER family of phone systems.**
- MERLIN, MERLIN Plus, and MERLIN II systems: a 5-button phone.
- MERLIN LEGEND systems: a 10-button ATL set.
- System 25: a 10-button set.
- System 75, System 85, and DEFINITY systems: a 7303s set.

Carefully note the functional differences listed in the following sections.

## Entering Station Programming Mode

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- To enter programming mode, turn the handset on, then press [Feat] followed by [0] [0] .
- To exit programming mode, press [Feat] followed by [0] [0] ; or turn the handset off.

### **NOTE:**

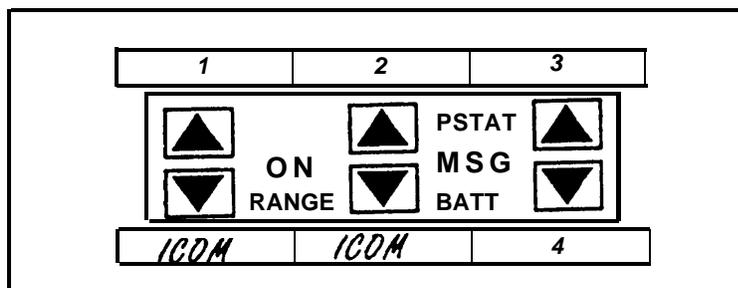
The above instructions do not apply on System 25, System 75, System 85, and DEFINITY systems. On these systems, buttons are assigned by your system administrator.

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## Programming System Features

### **PARTNER Systems:**

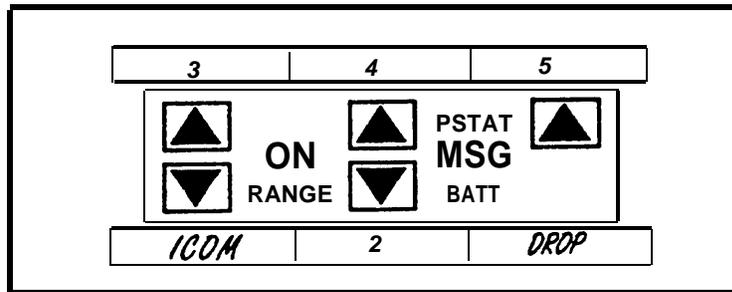
- PARTNER II and PARTNER Plus system buttons should be assigned as follows; 1, 2, 3, and 4 are line or feature buttons (for a PARTNER system, buttons 1 through 4 are line only):



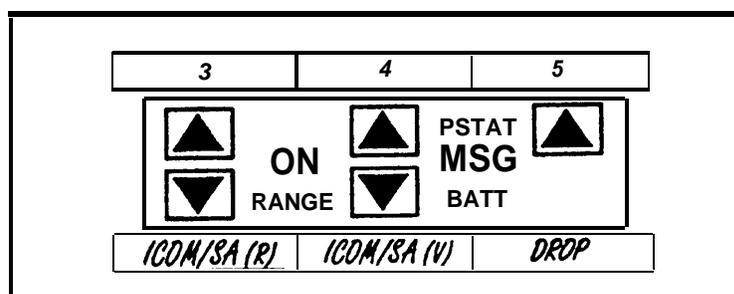
### **MERLIN Systems:**

- It is recommended that you use MERLIN 206/410/820 systems installed with Feature Package 2 with your wireless phone.
- You must disable the Voice Announce feature. This phone does not have a speaker function.
- You should not be assigned to a paging group.
- To program the Ringing Option feature, use the “arrow” and “rectangle” indicators in the display as the equivalent of red and green LEDs, respectively.
- For MERLIN II system users, if you program an Auto Intercom button, idle line preference must be set to intercom.
- If any of your incoming lines has the call waiting feature, program the Recall feature on one of the programmable buttons and press it before you pickup a waiting call. You can dial #50 before you pickup a waiting call on the following: MERLIN 206/410/820 systems only with Feature Package 2, and all MERLIN Plus, MERLIN II, and MERLIN 1030/3070 systems. Pressing the [On/Off] button will disconnect the call.

- MERLIN 206/410/820 and MERLIN Plus system buttons should be assigned as follows; 2, 3, 4, and 5 are line or feature buttons:



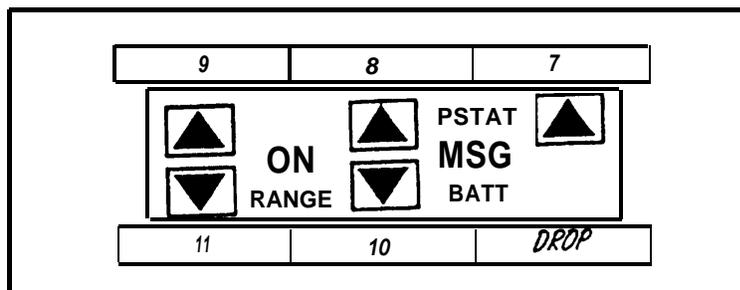
- To use MERLIN LEGEND system feature codes with this phone, program the top right-hand button as a system Feature button. This will permit you to use the wide array of LEGEND system features by turning the set on, pressing the system Feature button, and dialing the appropriate “ \* ” code number. Your cordless phone’s [Feat] button only allows you to enter programming mode. It does not work when using MERLIN LEGEND system features.
- MERLIN 1030/3070, MERLIN II, and MERLIN LEGEND system buttons should be assigned as follows; 3, 4, and 5 are line or feature buttons:



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## System 25:

- For Releases 1, 2, and 3, this phone **must** be administered as a 10-button MERLIN set (type 303).
- Assigning features may be done **only** by the system administrator.
- Use the following features with caution:  
Automatic Intercom, Bridging, Coverage, Direct Station Selection, Personal Line, Pooled Facility, Send All Calls (use with single ring reminder).  
Since these features provide visual indication that the feature is turned on, be aware that if you turn off the handset when using that feature, you may forget that the feature is on.
- Do not assign the following features: Auto Answer, Scroll, Inspect, Directory, Next, Local, Call, and Manual Callback Queuing.
- If programming the Flex DSS or Repertory Dial feature, dial the number to be recorded and push the button you are assigning to the feature. You will receive 3 short beeps and a dial tone to confirm programming.
- If you are programming numbers for the Station Speed Dial feature, dial the numbers to be stored then dial the Personal Speed Dialing code (#20 through #39), including the #. Listen for a confirmation tone followed by a dial tone.
- System 25 buttons should be assigned as follows; 7, 8, 9, 10, and 11 are system access *or* feature buttons:



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## **System 75, System 85, and DEFINITY Systems:**

This phone must be administered as a 7303s Hybrid terminal for the following systems:

- System 75 - R1V1, R1V2, and R1V3
- System 85 - R2V1, R2V2, R2V3, and R2V4
- DEFINITY G1 - (R1V4)
- DEFINITY G2 - G2.1 and G2.2 - (R2V5, R2V6)
- DEFINITY G3 Version 1 - (R1V5)
- DEFINITY G3 Version 1.1 and Version 2 - (D92)
- DEFINITY G3 Version 3 - (D93)

Native terminal administration will be provided in DEFINITY G3 Version 3.

On the older switch types that do not accommodate Universal modules (System 85 - R2V1; R2V2, R2V3, and R2V4), an ANN17B Hybrid pack in conjunction with a DS-1 carrier must be used to connect the switch and the MDC 9000 telephone. On the newer switches that accommodate Universal modules:

- System 75 R1V1, R1V2, and R1V3
- DEFINITY G1 - (R1V4)
- DEFINITY G3 Version 1 - (R1V5)
- DEFINITY G3 Version 1.1 and Version 2 - (D92)
- DEFINITY G3 Version 3 - (D93)

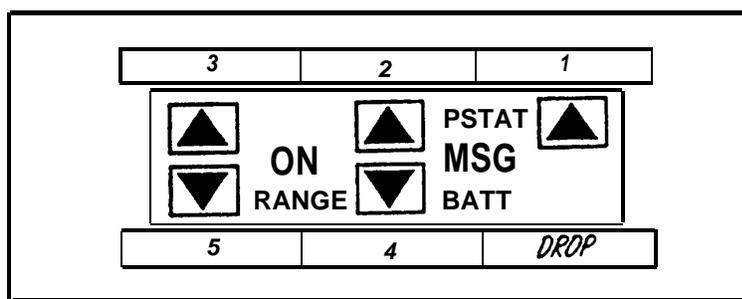
a TN762B Hybrid pack must be used with the Universal carrier for this purpose. Depending upon the actual hardware configuration, DEFINITY G2 - G2.1 and G2.2 may utilize either an ANN17B or TN762B pack. In either case, the latest vintage packs are recommended.

Note that for DEFINITY G2.1 and G2.2, General Terminal Administration (GTA) may be used to set up "custom" set types so that administration may be done using that custom set type.

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Set administration and button feature assignment may be done **only** by the system administrator. It is recommended that you do not use features that require visuals (the LCD feature indicator) to be updated while the set is turned off. Also, since some features, such as Send All Calls, provide visual indication that the feature is turned on, be aware that if you turn off the handset when using that feature, you may forget that the feature is on.

- System 75, System 85, DEFINITY G1, G2, and G3 system buttons should be assigned as follows; 1, 2, 3, 4, and 5 are line or feature buttons:



# Maintaining Your MDC 9000

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This phone is designed to provide trouble-free performance without any special maintenance procedures. To reduce the risk of accidental damage:

- Keep the telephone in an area free of dust, smoke, and moisture.
- Do not place the phone near a heating duct, radiator, or other heat source, and do not drop or expose it to excessive shock or vibration.
- Unplug the phone base if its cord is damaged, if liquid is spilled into it, or if its housing becomes cracked or otherwise damaged.
- To clean your telephone, wipe the outside housing with a soft, dust-free cloth. If absolutely necessary, you may use a cloth *slightly* dampened with a mild soap and water solution. Dry quickly with a soft cloth.

**▲ CAUTION:**

Your telephone contains sensitive electronic parts. Never submerge it in any kind of liquid, and never use detergents, alcohols, solvents, abrasive cleaners, or an excessive amount of water when cleaning the housing and faceplate. To do so could result in irreparable damage.

# Ordering Replacement & Optional Parts

To order replacement parts or optional equipment, call the AT&T Sourcebook Sales, AT&T Catalog Sales, or the AT&T National Parts Sales Center toll free. When ordering, please use the part numbers shown in the table below.

<b>Item</b>	<b>AT&amp;T Sourcebook Sales 1 800 451-2100</b>	<b>AT&amp;T Catalog Sales 1 800 635-3866</b>	<b>AT&amp;T National Parts Sales Center 1 800 222-PART</b>
Battery Pack White Black	32034A 32036A	32034A 32036A	106760812 106760804
Handset Carrying Holster Gray Black	NA NA	NA NA	846628527 846501401
Handset Carrying Case	11134X	11134X	NA
Telephone Line Cords: 14-foot (4.6 m) 25-foot (8.3 m) 50-foot (16.6 m) 75-foot (25 m) 100-foot (33.3 m)	32008A 32009A 32010A 32900A 32011A	32008A 32009A 32010A 32900A 32011A	104073655 104073663 104073671 104073689 104073697
Supra RF Headset	32030A	32030A	*

\* Headset order number not available at time of printing.

# AT&T Limited Warranty and Limitation of Liability

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AT&T warrants to you, the customer, that your cordless telephone system will be in good working order on the date AT&T or its authorized reseller delivers or installs the system, whichever is later ("Warranty Date"). If you notify AT&T or its authorized reseller within one year of the Warranty Date that your system is not in good working order, AT&T will without charge to you repair or replace, at its option, the system components that are not in good working order. Repair or replacement parts may be new or refurbished and will be provided on an exchange basis. If AT&T determines that your system cannot be repaired or replaced, AT&T will remove the system and, at your option, refund the purchase price of your system or apply the purchase price towards the purchase of another AT&T system.

If you purchased your system directly from AT&T, AT&T will perform warranty repair in accordance with the terms and conditions of the specific type of AT&T maintenance coverage you selected. A written explanation of AT&T's types of maintenance coverage may be obtained from AT&T by calling 1 800 247-7000 (in the continental U.S. only). If you purchased your system from an AT&T authorized reseller, contact your reseller for the details of the maintenance plan applicable to your system.

This AT&T limited warranty covers damage to the system caused by power surges. Unless otherwise expressly agreed to in a written agreement signed by AT&T, AT&T will not be responsible under this limited warranty for damages resulting from:

- Failure to follow AT&T's installation, operation, or maintenance instructions;
- Unauthorized system modification, movement, or alteration;
- Unauthorized use of common carrier communication services accessed through the system;
- Abuse, misuse, or negligent acts or omissions of the customer and persons under the customer's control; or
- Acts of third parties and acts of God.

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**AT&T'S OBLIGATION TO REPAIR, REPLACE, OR REFUND, AS SET FORTH ABOVE, IS YOUR EXCLUSIVE REMEDY.**

**EXCEPT AS SPECIFICALLY SET FORTH ABOVE, AT&T, ITS AFFILIATES, SUPPLIERS, AND DEALERS MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY DISCLAIM ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**Limitation of Liability:**

*Except as provided below, the liability of AT&T and its affiliates and suppliers for any claims, losses, damages, or expenses from any cause whatsoever (including acts or omissions of third parties), regardless of the form of action, whether in contract, tort, or otherwise, shall not exceed the lesser of: (1) the direct damages proven; or (2) the repair cost, replacement cost, license fee, annual rental charge, or purchase price, as the case may be, of the equipment that directly gives rise to the claim. Except as provided below, AT&T and its affiliates and suppliers shall not be liable for any incidental, special, reliance, consequential, or indirect loss or damage incurred in connection with the equipment. As used in this paragraph, consequential damages include, but are not limited to, the following: lost profits, lost revenues, and losses arising out of unauthorized use (or charges for such use) of common carrier telecommunications services or facilities accessed through or connected to the equipment. For personal injury caused by AT&T's negligence, AT&T's liability shall be limited to proven damages to person. No action or proceeding against AT&T or its affiliates or suppliers may be commenced more than twelve (12) months after the cause of action accrues. THIS PARAGRAPH SHALL SURVIVE FAILURE OF AN EXCLUSIVE REMEDY.*

## **Repair Information**

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Outside the continental U.S., contact local AT&T Authorized Dealer for warranty and repair information applicable to your system.

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## **In-Warranty Repairs**

If you purchased or leased your system directly from AT&T, AT&T will repair it free of charge during the one-year warranty period. Simply call the Helpline and ask for service.

Business-Day service is standard during the warranty period for both the control unit and system phones. Business-Day service is performed during normal business hours. However, if you need 24-hour service protection during the warranty period on the control unit in case there is a major system failure, you can purchase an Around-the-Clock service contract from your local AT&T sales office (1 800 247-7000 in the continental U.S. only). (Around-the-Clock service is not available for phones.)

If you purchased or leased your system through an AT&T Authorized Dealer, contact your dealer for repairs.

## **Post-Warranty Repairs**

If you purchased the system from AT&T and you have a post-warranty service contract, AT&T service is provided under the terms of that contract.

To significantly reduce unexpected repair costs after the warranty period, you can purchase a post-warranty service contract from AT&T. If you do not have a contract, AT&T service is provided on a time-and-materials basis by calling the Helpline. A contract provides to you, within the applicable coverage period and response times, service calls with no charge for parts and labor on covered repairs. Both Business-Day and Around-the-Clock coverages of varying lengths are available. To order a post-warranty service contract, call 1 800 247-7000 (in the continental U.S. only)

If you leased your system from AT&T, Business-Day service is included in your lease. To upgrade to Around-the Clock service, call 1 800 247-7000 (in the continental U.S. only)

If you purchased or leased your system through an AT&T Authorized Dealer, contact your dealer for repairs.

# FCC Information

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Federal Communications Commission (FCC) rules require that you be notified of the following:

## FCC Part 15 Rules

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The AT&T MDC 9000 Cordless Business Telephone has been tested and has been found to comply with *FCC Part 15 Rules*. These specifications are designed to provide reasonable protection against harmful interference in a commercial or residential installation. This cordless telephone 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 the telephone does cause harmful interference to radio or television reception, which can be determined by turning the telephone off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Where it can be done safely, reorient the receiving television or radio antenna.
- To the extent possible, relocate the television, radio, or other receiver with respect to the telephone.
- Plug the telephone into an AC outlet that is not on the same circuit as one used by the radio or television.

## Hearing Aid Compatibility

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This cordless telephone is compatible with inductively-coupled hearing aids.

# Specifications

GENERAL			
<b>Model:</b>	MDC 9000		
<b>Dimensions and Weights:</b>	Handset	12.1"(L) x 2.3"(H) x 2.44"(W)	0.6 lbs
	Handset w/Battery	12.1"(L) x 2.3"(H) x 2.44"(W)	0.91 lbs
	Base	9.4"(L) x 3.43"(H) x 7.52"(W)	1.75 lbs
	Battery Pack	3.3"(L) x 1.2"(H) x 2.45"(W)	0.31 lbs
	Headset w/Cord (Approx.)	7.6"(L) x 1.2"(H) x 6.3"(W)	0.17 lbs
	Power Supply	3.3"(L) x 2.6"(H) x 2.0"(W)	0.67 lbs
<b>Operating Temperature:</b>	Temperature range:	4.4° C (40° F) to 40° C (104° F)	
	Relative humidity:	15% to 95%	
<b>Electrical Specifications (Power):</b>	Handset	2.0 watts	
	Base	3.4 watts	
	Power Supply (Base)	(12V 123mA)	
<b>Battery Life:</b>	Nickel Cadmium	3.0 hrs talk time/22 hours standby time	
RF SYSTEM PARAMETERS			
<b>Frequency Band:</b>	902.1 -927.9 MHz		
<b>Channel Spacing:</b>	150 KHz		
<b>Total Channel Capability:</b>	50 (Dynamically allocated out of 173)		
<b>Duplex Method:</b>	Time Division Duplex (TDD) (Transmit and Receive on same frequency)		
<b>Transmitter Output Power:</b>	Dynamic Power Adjustment: 1mW ERP Minimum to 200mW ERP Maximum		
<b>Receiver Sensitivity:</b>	-100 dBm at Antenna Port		
OTHER			
<b>Electrical Requirements:</b>	<ul style="list-style-type: none"> <li>■ 90 - 130VAC, 50-40 Hz, 3-prong outlet separate ground, separately fused at 15 amps.</li> <li>■ Outlet must not be controlled by anon/off switch.</li> <li>■ Grounding to comply with Underwriters Laboratories (UL) 1459</li> </ul>		
<b>Requirements for Out-Of-Building Extensions:</b>	Installation of a telephone or other standard (tip/ring) device in another building requires the following In-Range Out-of-Building (IROB) protectors to protect the switch/control unit and device from electrical surges: MDC 9000 phone: two AT&T 503A1 protectors (ETR) two AT&T 341 protectors (ATL)		
<b>Wiring:</b>	<ul style="list-style-type: none"> <li>■ MDC 9000 phone: AT&amp;T SYSTIMAX® or at least 2-pair (4-wire) star ("home run" not "loop") ETR</li> <li>■ AT&amp;T SYSTIMAX or at least 4-pair (8-wire) star ("home run" not "loop") ATL</li> <li>■ Bridging Adapter: AT&amp;T 267F2 (ETR)</li> <li>■ Bridging Adapter: AT&amp;T 267C (ATL)</li> <li>■ Range: 1,000 feet (305 meters) for the Base Unit</li> </ul>		

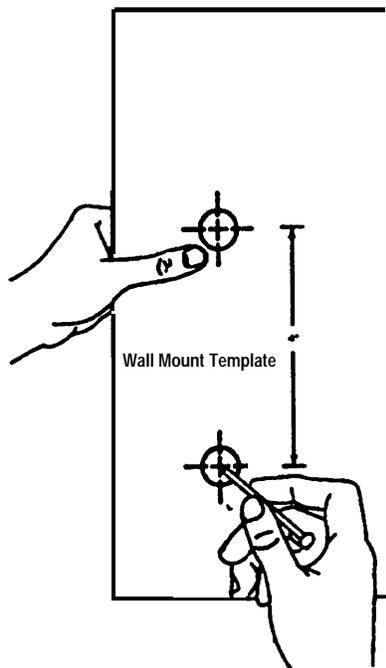
## Using the Wall Mount Template

1. If you wish, remove the template from this booklet by cutting or tearing along this dotted line. 

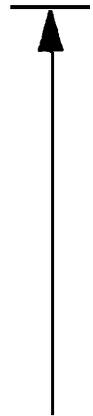
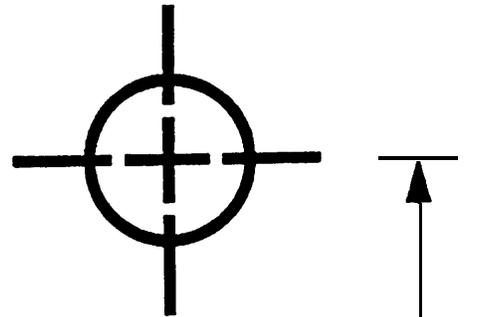
If you do not use the template, note that screws should be installed on a vertical line, exactly 4 inches (10.2 cm) apart.)

2. Referring to the figure below, hold the template against the place on the wall where you want to mount the **base**.

**Make sure you hold the template perfectly straight** (use a level if needed).

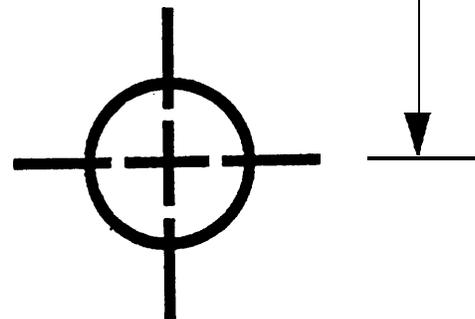


3. Using a nail, pencil, or other pointed object, push through each cross mark on the template to mark the spots where you drive the mounting screws.



4"  
(10.2 cm)

## Wall Mount Template



AT&T 503-801-101

Graphics © AT&T 1988

