

Lucent Technologies
Bell Labs Innovations



Business Cordless 905 Telephone

User's Guide

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The Lucent Technologies Business Cordless 905 telephone has been tested and has been found to comply with *FCC Part 15 Rules*. It is identified by FCC registration number AS5LT905A. These specifications are designed to provide reasonable protection against harmful interference in a commercial or residential environment. This 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 with 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 radio or television antenna.
- To the extent possible, relocate the television, radio, or other receiver with respect to the telephone.
- Plug the telephone into an electrical outlet that is not on the same circuit as one used by the radio or television.

**Industry Canada
Statement**

This device complies with RSS-210 of Industry Canada.
Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference including interference that may cause undesirable operation of the device.

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You and your system manager are responsible for the security of your system, such as programming and configuring your equipment to prevent unauthorized use. The system manager is also responsible for reading all installation, instruction, and system administration documents provided with this product in order to fully understand the features that can introduce risk of toll fraud and the steps that can be taken to reduce that risk. Lucent Technologies does not warrant that this product is immune from or will prevent unauthorized use of common-carrier telecommunication services or facilities accessed through or connected to it. Lucent Technologies will not be responsible for any charges that result from such unauthorized use.

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**Ordering
Information**

To order parts for the Business Cordless 905 telephone, see Appendix A. To order a copy of this document, request:

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1 Introduction

This chapter provides a brief description of the Business Cordless 905 telephone, lists the contents of the telephone package, and identifies the Lucent communications systems with which the 905 telephone is compatible.

Business Cordless 905 Telephone

The Business Cordless 905 telephone is a 900 MHz cordless telephone, with a handset LCD display, intended for use in a small or home office. Its multi-line operation provides up to three outside lines on which you are able to make, receive, transfer, and hold calls. The Business Cordless 905 telephone is designed to be used with a variety of PARTNER® and MERLIN® Communications Systems, allowing you access to features available on those systems. See "Compatible Systems" later in this chapter for a list.

Package Contents

The Business Cordless 905 package includes the following items:

- Base unit
- Separate 110V AC power adapter with 7.5-foot power cord
- Cordless handset
- NiCad rechargeable handset battery
- Two telephone line cords with modular connectors:
 - One cord is for MERLIN Communications Systems and has a 4-conductor, 8-pin plug on one end and a 6-pin plug on the other end. It is a 7-foot long cord with an orange label that states, "*Use this cord **only** if you are connecting to a MERLIN Communications System.*"
 - One cord is for PARTNER Communications Systems and is a 4-conductor, 7-foot long cord. This cord is not labeled.
- User's Guide
- Stick-on directory card
- Inline adapter
 - Used to extend the 7-foot telephone line cord (MERLIN Communications Systems **only**)
- Wall mounting screws

Compatible Systems

The Business Cordless 905 telephone is compatible with the following Lucent communications systems.

PARTNER	MERLIN
PARTNER 206	MERLIN 206
PARTNER Plus	MERLIN 410
PARTNER II®	MERLIN 820
PARTNER ACS	MERLIN Plus
PARTNER Endeavor™	MERLIN 1030/3070
	MERLIN II
	MERLIN LEGEND®

2 About the Controls

This chapter describes the controls, buttons, and lights on the Business Cordless 905 base unit and handset.

Base Unit Controls

A description of the lights, button, and antenna on the base unit follow the illustration.



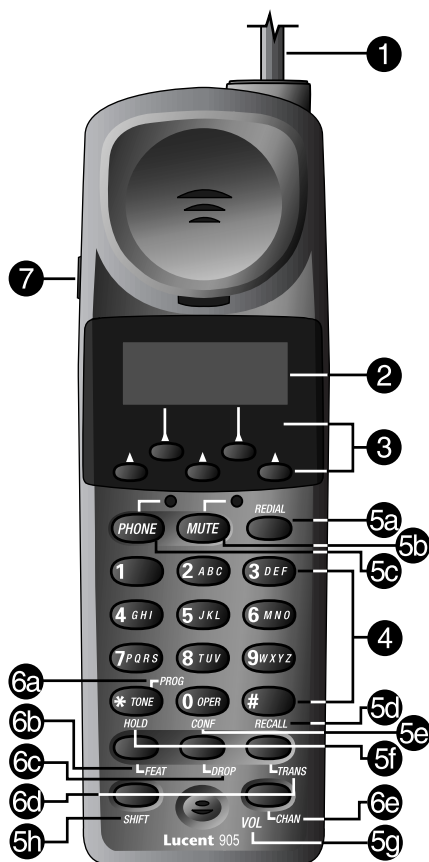
1 Antenna	2 Message Light	3 Spare Battery Charging Light
4 Charging/Handset in Use Light	5 Page/Handset Locator Button	

Base Unit Controls

1 Antenna	When the handset is removed from the base unit, this antenna should be fully upright so that you can make and receive all calls with a clear, strong reception.
2 MESSAGE Light	This light is on if you have messages waiting.
3 SPARE BATT CHARGING Light	This light is on when the spare battery is charging. A spare battery charger is built into the base unit and ensures that a charged battery is always available should the handset battery charge become low.
4 CHARGING/ HANDSET IN USE Light	If the handset is in the base and this light is on, the handset battery is successfully charging. If the handset is not in the base and this light is on, the handset is on. (This does not mean that there is a call on the handset, but just that the handset is turned on.)
5 PAGE/ HANDSET LOCATOR Button	The Page feature allows you to signal someone at the handset from the base. See "Using the Page Feature" in Chapter 5 for more information. The Handset Locator feature is useful if you misplace the handset. See "Using the Handset Locator Feature" in Chapter 5 for more information.

Handset Controls

Take a moment to familiarize yourself with the handset controls. A description of each control follows the illustration.

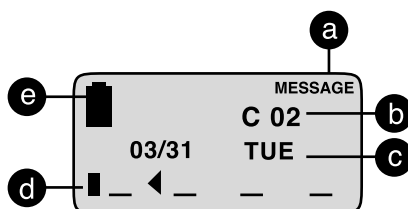


1	Antenna
2	Handset Display
3	Line and Programmable Buttons
4	Dial Pad
5a	Redial Button
5b	Mute Button
5c	Phone Button
5d	Recall Button
5e	Conference Button
5f	Hold Button
5g	Volume Button
5h	Shift Button
6a	Program (Used with Shift)
6b	Feature (Used with Shift)
6c	Drop (Used with Shift)
6d	Transfer (Used with Shift)
6e	Channel (Used with Shift)
7	Ringer/On Off

Handset Controls

1 Antenna The antenna is attached to the handset.

2 Handset Display The handset display provides information related to the communications system.



Handset Display

Note: Because of space limitations, the Business Cordless 905 telephone LCD display cannot show the full Caller ID information provided by the PARTNER ACS system.

- a Message icon** indicates whether there are messages stored.
- b Channel number** is indicated by the letter C and two digits.
- c Variable data** that appears here is dependent upon the communications system to which the telephone is connected. For example, the date (as shown in the illustration), dialed number, or Caller ID can appear here.
- d Line status** indicates line activity. See the following section, "Line Status Indicators," for more information.
- e Battery icon** is only partially displayed when the battery charge is getting low.

Line Status Indicators. There are five status indicators; each one corresponds to a specific outside line or programmable/intercom button. The function of these status indicators varies, depending on the communications system

you are using. The status indicators show triangles and rectangles, signifying the following activity.

PARTNER Systems:

- A rectangle (■) is the equivalent of a red LED on a wired system telephone.
- A triangle (◀) is the equivalent of a green LED on a wired system telephone.

MERLIN Systems:

- A rectangle (■) is the equivalent of a green LED on a wired system telephone.
- A triangle (◀) is the equivalent of a red LED on a wired system telephone.

Local Handset Display Information. While the handset display usually shows information related to the communications system such as date, dialed digits, or Caller ID, it also displays the following local information.

If you see...	It means...
SEARCHING...	Handset is trying to link up with the base unit.
CAN'T FIND BASE	Handset link-up with base unit has failed.
SHIFT - ?	You have pressed SHIFT and the handset is waiting for further input.
VOL: L + + + H	You have pressed VOL to adjust the volume. The number of plus signs (+) indicates the volume level; one indicates the lowest volume and three indicates the highest volume.

Note: *Local information is always in English, regardless of the telephone language setting.*

3 Line and Programmable Buttons

The Business Cordless 905 telephone provides five buttons that are used for line selection and button programming.

PARTNER Systems. If your telephone is connected to a PARTNER Communications System, there are two intercom and three line/programmable buttons. See "PARTNER Systems" in Chapter 4 for more information.

MERLIN Systems. If your telephone is connected to a MERLIN Communications System, there are one or two intercom buttons (depending on the type of MERLIN System) and three or four line/programmable buttons. See "MERLIN Systems" in Chapter 4 for more information.

4 Dial Pad

The dial pad is used for dialing numbers and programming feature buttons.

Note: *For the Business Cordless 905 telephone, the *TONE button sends only the *.*

5a – 5h Fixed Feature Buttons

The fixed feature buttons provide access to features that are the primary function of a specific button. (Secondary functions of these buttons provide access to alternate features. These are described in the next section.)

To access a fixed feature, press the appropriate button as described below.

5a REDIAL dials the last telephone number dialed from the handset.

5b MUTE allows you to hear your caller, but prevents the caller from hearing you. When the muting feature is activated, the light by this button is steadily on.

5c PHONE is used to turn the handset on and off. The light by this button must be steadily on when you answer a

call or make a call. If you press **PHONE** and hear two short beeps, the handset is not communicating properly with the base unit. If this occurs, move the handset closer to the base unit.

- 5d RECALL** allows you to dial out again on the same line you are currently using. Some of your lines may provide more features than others, such as 3-way calling or call waiting. This button is useful when you are on a line that provides an extra feature that you want to be sure to have available again for your next call.

On a PARTNER 206, the **RECALL** button is automatically assigned. On a PARTNER Plus, PARTNER II, or PARTNER ACS, the **RECALL** button must be programmed. See "Assigning the RECALL Button" in Chapter 4 for more information.

- 5e CONF (Conference)** allows you to connect a third caller to the telephone call. It performs the conference feature of the system to which your telephone is connected.

- 5f HOLD** allows you to put a call on hold. It performs the hold feature of the system to which your telephone is connected.

- 5g VOL (Volume)** allows you to adjust the handset volume to three different levels. Each time you press **VOL**, the level changes. When you reach the highest level, you hear three short beeps. See the table under "Local Handset Display Information" earlier in this chapter for volume display information.

- 5h SHIFT** allows you to access the five alternate feature buttons on the handset. See the following section, "6a – 6e, Alternate Features," for more information.

6a – 6e Alternate Features

You can access additional features when you press **SHIFT** and then one of the five fixed feature buttons that provide an alternate feature. The **SHIFT** button and the alternate feature appear in yellow on the handset to indicate that they

must be used together. The alternate features are described below.

6a PROG (Program) emulates the Program switch (located on the side of the telephones) on the MERLIN Communications Systems and allows you to program MERLIN features onto programmable buttons on the handset (those not assigned to lines).

See "Programming Features for MERLIN Systems" in Chapter 4 for more information.

Note: *If your telephone is connected to a PARTNER Communications System and you press **SHIFT + PROG**, an error tone is generated.*

6b FEAT (Feature) emulates the Feature button on the PARTNER Communications Systems and enables you to program PARTNER features onto the programmable buttons on the handset (those not assigned to lines).

See "Programming Features for PARTNER Systems" in Chapter 4 for more information

Note: *If your telephone is connected to a MERLIN Communications System and you press **SHIFT + FEAT**, an error tone is generated.*

6c DROP allows you to drop a conferenced party from a conference call. It emulates the Drop button on the MERLIN Communications Systems.

Note: *If your telephone is connected to a PARTNER Communications System and you press **SHIFT + DROP**, an error tone is generated.*

6d TRANS (Transfer) allows you to transfer a call. It emulates the Transfer button on both the MERLIN and PARTNER Communications Systems.

6e CHAN (Channel) allows you to activate the channel search feature.

**7 RINGER
ON/OFF**

This switch turns the handset ringer on and off.

3 Installing the Telephone

This chapter provides instructions for a table installation and a wall installation. The Business Cordless 905 telephone cannot be connected to a normal telephone line. It must be connected to either a PARTNER Communications System's station port or to a MERLIN Communications System's station port. See "Compatible Systems" in Chapter 1 for a list of Lucent communications systems with which the Business Cordless 905 telephone is compatible.

Table Installation

Choose a location near a standard electrical outlet (120V AC) and the telephone jack to which the telephone is being connected.

Installing the Handset Battery

Follow these steps to install the handset battery.

- 1 Place the battery pack in the handset battery compartment.
- 2 Make sure the metal contacts on the end of the battery are aligned with the contacts in the battery compartment.
- 3 Place the battery compartment cover on the handset by sliding it on its track up over the battery compartment until it snaps firmly into place.

Setting the Handset Ringer Switch

Check to make sure the handset ringer switch is set to ON. If it is not, set the switch on the side of the handset to ON so that the handset will ring.

If the ringer switch is set to OFF, the handset does not ring. Note, however, that the Page/Handset Locator feature works even if the ringer switch is set to OFF. See "Using the Handset Locator Feature" in Chapter 5 for more information.

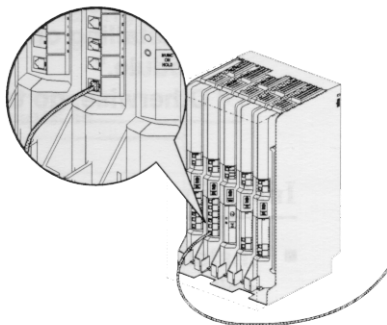
Connecting the Telephone Line Cord

Follow these steps to connect the telephone line cord.

- 1 Plug one end of the telephone line cord into the jack labeled **LINE** on the back of the base.

Note: *The Business Cordless 905 telephone comes with two telephone line cords—one for PARTNER Communications Systems and one for MERLIN Communications Systems. The PARTNER cord is not labeled. The MERLIN cord contains an orange label that states, "Use this cord **only** if you are connecting to a MERLIN Communications System." **Be sure to use the correct telephone line cord for your system.***

- 2 Plug the other end of the telephone line cord into the system's station port as shown in the following illustration.



Plug Line Cord into System's Station Port

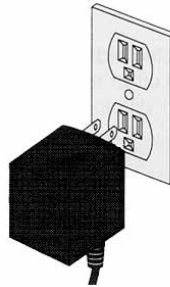
Note: *This illustration shows the telephone line cord plugged in locally at a PARTNER switch. Depending on where your system switch is installed, however, you may have to run additional wire in order to reach the switch.*

- 3 Press the line cord into one of the two u-shaped strain-relief grooves on the bottom of the base.

Connecting the Power Cord

Follow these steps to connect the power cord.

- 1 Plug the power cord into the jack labeled **POWER** on the back of the base.
- 2 Press the power cord into the other strain-relief groove on the bottom of the base.
- 3 Plug the AC adapter that is on the other end of the power cord into a standard electrical outlet as shown in the following illustration.



Plug AC Adapter into Standard Electrical Outlet

 CAUTION:

Use only the AC power adapter supplied with the telephone.
Telephone Power Supply, Class 2, Model No. R75B-1.
Input: 120 V AC, 60 Hz, 6W.
Output: 7.5 V DC, 700 mA.

Adjusting the Base Antenna

Position the base antenna so that it is fully upright.

Charging the Handset Battery Pack

Place the handset either face-up or face-down in the base. The CHARGING/HANDSET IN USE light on the base turns on to indicate that the handset is in the right position to charge the battery pack.

Allow the battery to charge fully (approximately 4 hours) before using the Business Cordless 905 telephone.

Checking for Dial Tone

After the battery pack is charged, pick up the handset and check for a dial tone by pressing **PHONE**. When the PHONE light is steadily on, you should hear a dial tone.

Wall Installation

Choose a location near a standard outlet (120V AC) and the telephone jack to which the telephone is being connected.

Installing the Handset Battery

Follow these steps to install the handset battery.

- 1 Place the battery pack in the handset battery compartment.
 - 2 Make sure the metal contacts on the end of the battery are aligned with the contacts in the battery compartment.
 - 3 Place the battery compartment cover on the handset by sliding it on its track up over the battery compartment until it snaps firmly into place.
-

Setting the Handset Ringer Switch

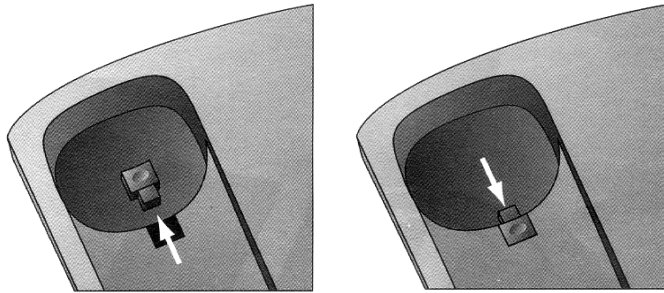
Check to make sure the handset ringer switch is set to ON. If it is not, set the switch on the side of the handset to ON so that the handset will ring.

If the ringer switch is set to OFF, the handset does not ring. Note, however, that the Page/Handset Locator feature works even if the ringer switch is set to OFF. See "Using the Handset Locator Feature" in Chapter 5 for more information.

**Mounting Base
on the Wall**

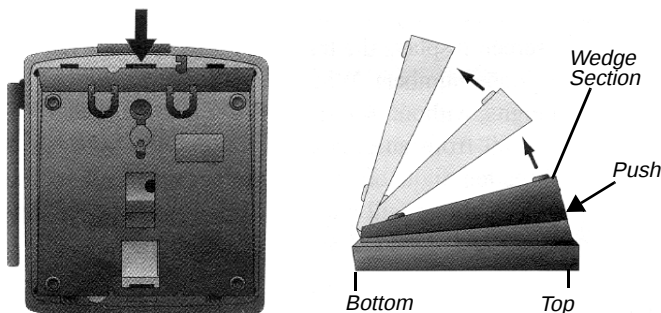
Follow these steps to mount the base unit on the wall.

- 1 Reverse the handset hook on the base. Push down on the top of the handset hook and slide it out. Turn the hook around and reinstall it, so the longer portion is now extended as shown in the following illustrations.



Reverse Handset Hook for Wall Mounting

- 2 Remove the reversible wedge attached to the base by depressing the indentation located on the thicker end of the wedge while gently lifting up and away from the base as shown in the following illustrations.



Remove Reversible Wedge from Base

Note: Disregard the instructions labeled "To Change Dial Mode" on the bottom of the base. These instructions do not apply to the Business Cordless 905 telephone.

- 3 Plug one end of the telephone line cord into the jack labeled **LINE** on the back of the base.

Note: The Business Cordless 905 telephone comes with two telephone line cords—one for PARTNER Communications Systems and one for MERLIN Communications Systems. The PARTNER cord is not labeled. The MERLIN cord contains an orange label that states, "Use this cord **only** if you are connecting to a MERLIN Communications System." **Be sure to use the correct telephone line cord for your system.**

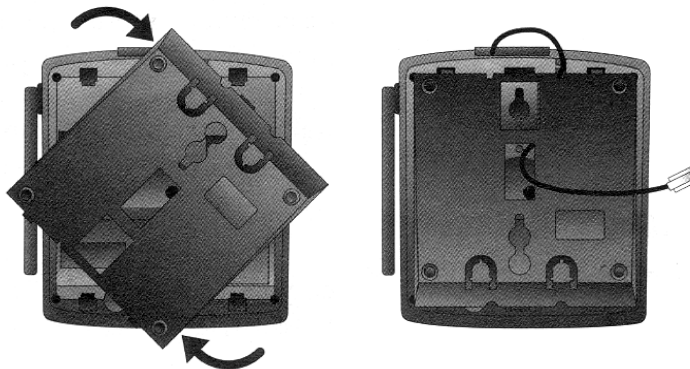
- 4 Press the line cord into the short groove on the bottom of the base as shown in the following illustration.



Press Line Cord into Groove

This groove is designed to allow the line cord to pass underneath the reversible wedge when it is reattached.

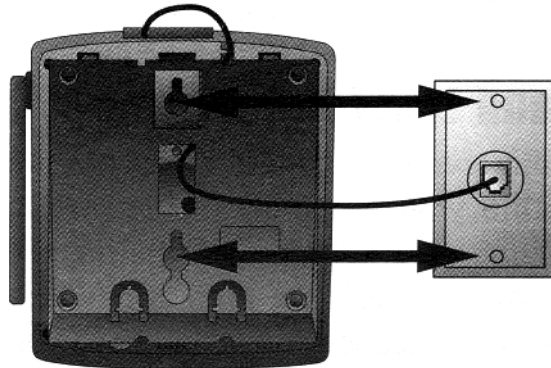
- 5 Turn the reversible wedge so that the thicker end is toward the bottom. Feed the remaining line cord through the inside of the reversible wedge and out the center rectangular opening as shown in the following illustrations.



Reverse Wedge and Feed Line Cord

- 6 Reattach the reversible wedge by inserting the tabs into the slots on the bottom of the base. Push down on the thicker end until the wedge snaps firmly into place.
- 7 After the reversible wedge is reattached, feed the remaining line cord back into the rectangular opening, leaving about three inches free.
- 8 Plug the other end of the telephone line cord into the wall jack.
- 9 Position the telephone so that the mounting knobs on the wall jack fit into the holes on the bottom of the reversible wedge as shown in the following illustration.

Note: *If the wall jack is not equipped with the mounting plate with mounting knobs, you can order one. See Appendix A "Ordering Information" for details.*



Align Slots with Wall Jack Mounting Knobs

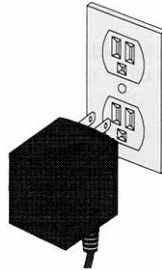
Note: *For wall installations not utilizing a wall jack, use the template provided on the inside back cover of this guide to help you position mounting screws. Route line and power cords in a manner appropriate to your installation.*

- 10 Gently pull down on the telephone until the telephone locks into place.

Connecting the Power Cord

Follow these steps to connect the power cord.

- 1 Plug the power cord into the jack labeled **POWER** on the top of the base.
- 2 Plug the AC adapter that is on the other end of the power cord into a standard electrical outlet as shown in the following illustration.



Plug AC Adapter into Standard Electrical Outlet

 CAUTION:

Use only the AC power adapter supplied with the telephone. Telephone Power Supply, Class 2, Model No. R75B-1.
Input: 120 V AC, 60 Hz, 6W.
Output: 7.5 V DC, 700 mA.

Adjusting the Base Antenna

Position the base antenna so it is fully upright.

Charging the Handset Battery Pack

Place the handset face-down in the base. The CHARGING/HANDSET IN USE light on the base turns on to indicate that the handset is in the right position to charge the battery pack.

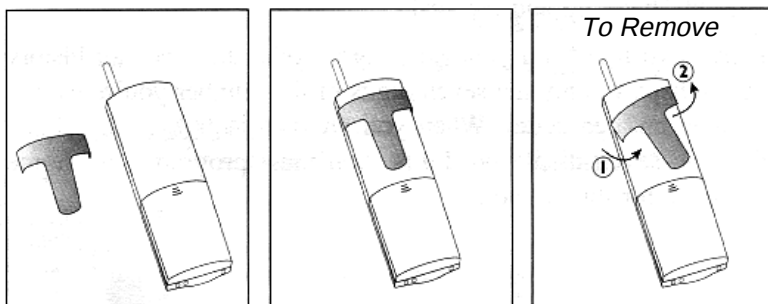
Allow the battery to charge fully (approximately 4 hours) before using the Business Cordless 905 telephone.

Checking for Dial Tone

After the battery pack is charged, pick up the handset and check for a dial tone by pressing **PHONE**. When the PHONE light is steadily on, you should hear a dial tone.

Attaching the Belt Clip

If desired, you can attach the belt clip to the cordless handset, using the illustrations below.



Attach Belt Clip

About Registration

After the handset and base unit are installed and turned on for the first time, they establish a registration code that is stored in the base. During some circumstances, such as when the power is off for a period of time, the registration code must be reset. See "Resetting the Registration Code" in Chapter 6 for more information.

4 Telephone Compatibility

The Business Cordless 905 telephone provides five buttons that are used for intercom and line selection/button programming. The function of each of these buttons depends on the communications system to which your telephone is connected.

If your telephone is connected to a PARTNER Communications System, there are two intercom and three line/programmable buttons. If your telephone is connected to a MERLIN Communications System, there are one or two intercom buttons (depending on the type of MERLIN System) and three or four line/programmable buttons.

After you have installed your Business Cordless 905 telephone and understand the controls and displays, use the programming instructions provided with your communications system; follow the user instructions for the telephone type identified below.

For this communications system...	Use the instructions for a...
PARTNER 206 PARTNER Plus PARTNER II PARTNER ACS PARTNER Endeavor	MLS-12D®
MERLIN 206 MERLIN 410 MERLIN 820 MERLIN Plus MERLIN 1030/3070 MERLIN II MERLIN LEGEND	BIS-22D

PARTNER Systems

On all PARTNER Communications Systems, you can assign a feature to an available button (a button that does not have a line or another feature assigned to it).

Note: *Functions that require on-hook dialing access, such as password entry, are not supported on the Business Cordless 905 telephone.*

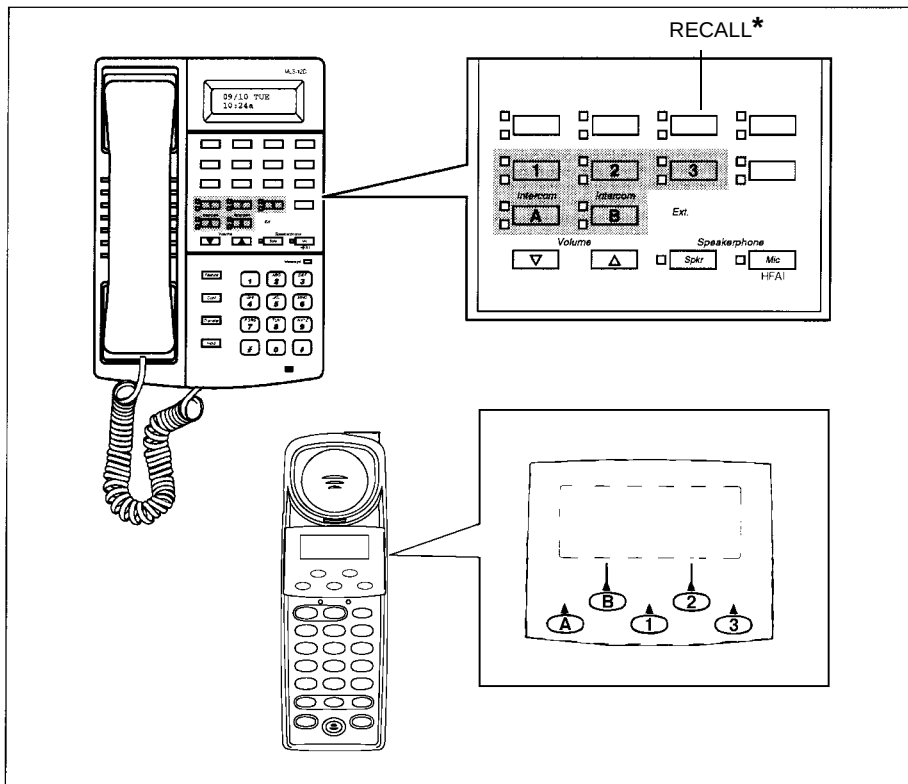
Programming Features for PARTNER Systems

Follow these steps to enter programming mode.

- 1 Press **PHONE** to turn on the handset.
- 2 Press **SHIFT + FEAT + 0 + 0** to enter program mode.
- 3 Program the feature (using the procedure described in the manual for your PARTNER Communications System).
- 4 To exit program mode, press **SHIFT + FEAT + 0 + 0**, or press **PHONE** to turn off the phone.

Button Mapping for PARTNER Systems

On all PARTNER Communications Systems, the Business Cordless 905 telephone emulates an MLS-12D telephone. The following diagram illustrates the MLS-12D button assignments and the corresponding assignments on the Business Cordless 905 telephone.



Button Mapping for PARTNER Systems

* See "Assigning the RECALL Button" that follows for more information about the RECALL button feature. This button must not have a line assigned to it.

**Assigning the
RECALL Button**

On a PARTNER 206, the **RECALL** button is automatically assigned. On a PARTNER Plus, PARTNER II, or PARTNER ACS, the **RECALL** button must be programmed.

Follow these steps to program the **RECALL** button.

- 1 Press **PHONE** to turn on the handset.
- 2 Press **SHIFT + FEAT + 0 + 0** to enter program mode.
- 3 Press **RECALL**.
- 4 Press **SHIFT + FEAT + 0 + 3**.
- 5 To exit program mode, press **SHIFT + FEAT + 0 + 0**, or press **PHONE** to turn off the phone.

MERLIN Systems

On all MERLIN Communications Systems, you can assign a feature to an available button (a button that does not have a line or another feature assigned to it).

Note: *The Business Cordless 905 telephone does not have a speaker function. Therefore, the Voice Announce feature must be disabled.*

It is recommended that you use MERLIN 206/410/820 systems installed with Feature Package 2 with your Business Cordless 905 telephone so that you can disable that feature.

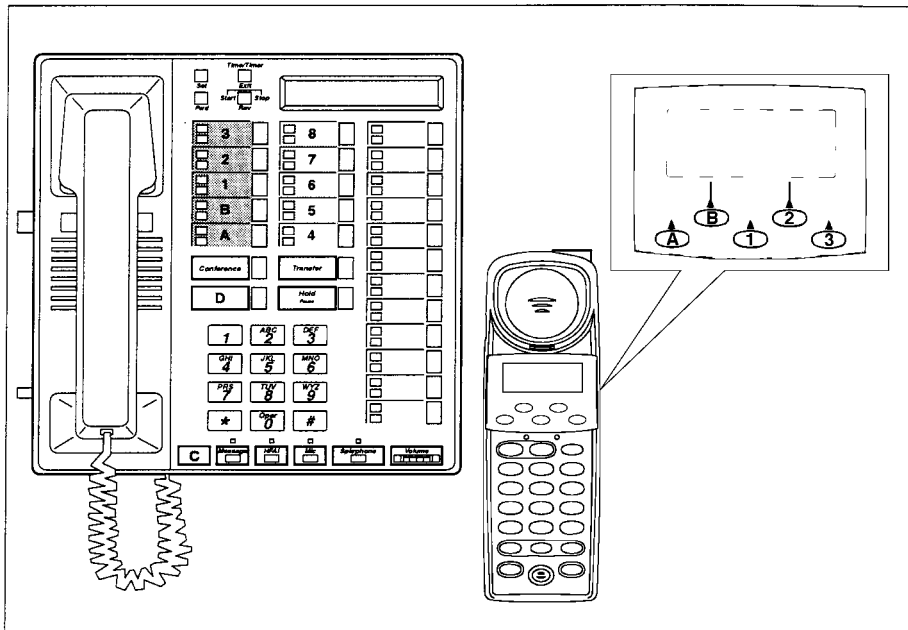
Programming Features for MERLIN Systems

Follow these steps to enter programming mode.

- 1 Press **PHONE** to turn on the handset.
- 2 Press **SHIFT + PROG** to enter program mode.
- 3 Program the feature (using the procedure described in the manual for your MERLIN System).
- 4 To exit program mode, press **SHIFT + PROG**, or press **PHONE** to turn off the phone.

Button Mapping for MERLIN Systems

On all MERLIN Communications Systems, the Business Cordless 905 telephone emulates a model BIS-22D telephone. The following diagram illustrates the BIS-22D button assignments and the corresponding assignments on the Business Cordless 905 telephone.



Button Mapping for MERLIN Systems

5 Using the Telephone

This chapter provides instructions for general telephone operation. For a complete description of all of the features available on your telephone, see the system documentation provided with your communications system.

See Chapter 4, entitled "Telephone Compatibility," for information on programming system features onto available line/programmable buttons on your Business Cordless 905 telephone.

General Telephone Operation

This section provides instructions for basic telephone operation such as making a call, answering a call, and adjusting handset volume.

Note: *Up to four Business Cordless 905 telephones can be used simultaneously in a common area without any user experiencing interference, as long as a minimum distance of 4 feet is maintained between the telephone bases.*

Making a Call

Follow these steps to make a call.

- 1 Press **PHONE** and wait for the **PHONE** light to go on steadily.
- 2 When you hear a dial tone, dial the number.
- 3 To end the call, press **PHONE**, or place the handset in the base. The **PHONE** light goes off.

Answering a Call

Follow these steps to answer a call.

- 1 Press **PHONE** and wait for the **PHONE** light to go on steadily. This indicates the call is connected.
- 2 To end the call, press **PHONE**, or place the handset in the base. The **PHONE** light goes off.

Placing a Call on Hold

Follow these steps to place a call on hold.

- 1 Press **HOLD** to put the call on hold.
- 2 To return to the call, press the line button associated with the icon that is winking.

Using Recall

Follow these steps to dial out again on the same line that you are currently using.

- 1 Press **RECALL**. The current call is terminated.
- 2 When you hear a dial tone, dial the number.

Redialing the Last Number

Follow these steps to redial the last number dialed on this telephone (up to 16 digits).

- 1 Press **PHONE** and wait for the **PHONE** light to go on steadily.
- 2 When you hear a dial tone, press **REDIAL**. If your communications system supports display, the number in redial memory appears on your handset LCD display.

Changing Channels

The Business Cordless 905 telephone has an advanced 16-channel AutoSelect feature that minimizes the chance of interference.

Follow these steps if you notice noise or interference while using the handset.

- 1 Press **SHIFT + CHAN**.
- 2 If the interference continues, move closer to the base and repeat Step 1 until you find a clear channel. Your call will not be interrupted.

Note: *The handset must be in range with the base in order to change channels.*

Adjusting the Handset Volume

The handset volume can be set to three different levels. Each time you press **VOL**, the level changes. One short beep indicates the lowest volume setting; two short beeps indicate the middle volume setting; three short beeps indicate the highest volume setting.

Follow these steps to adjust the handset volume.

- 1 Press **PHONE** to turn the telephone on.
- 2 Press **VOL** until you reach the desired volume level.

Using the Mute Feature

Mute allows you to hear your caller, but prevents the caller from hearing you.

Follow these steps to use the Mute feature.

- 1 Press **MUTE** while on a call.
- 2 To return to your conversation, press **MUTE** again.

Using the Page Feature

The Page feature allows you to signal someone at the handset from the base.

Follow these steps to page someone at the handset.

- 1 Make sure the **CHARGING/HANDSET IN USE** light is not lit on the base.
- 2 Press the **PAGE/HANDSET LOCATOR** button on the base. A paging tone will sound at the handset.

Note: *When the handset is in use, the page feature is inactive.*

Using the Handset Locator Feature

This feature is useful if you misplace the handset. Follow these steps to locate the handset.

- 1 Press and hold the **PAGE/HANDSET LOCATOR** button on the base for approximately four seconds. You will hear a repeating paging tone in the handset.
- 2 To cancel the paging tone, press any button on the handset, or press the **PAGE/HANDSET LOCATOR** button on the base.

This feature turns itself off in approximately three minutes if you have not turned it off before then.

Note: *When the handset is in use, the handset locator feature is inactive.*

Programming the Telephone

See Chapter 4, entitled "Telephone Compatibility," for instructions on programming PARTNER or MERLIN Communications Systems features onto the line/programmable buttons on the Business Cordless 905 telephone.

6 Maintenance

This chapter provides information about the batteries and explains how to reset the registration code.

About the Batteries

The Business Cordless 905 telephone is equipped with a spare battery charger built into the base unit. The spare battery charger ensures that you always have a charged battery available should the handset battery charge become low. A handset battery is provided with the telephone. There is also a Model 3091 spare battery that can be purchased separately and then be installed in the base unit.

The battery provides approximately 6 hours of talk time and 3 days of stand-by time.

Charging the Handset Battery Pack

The handset battery pack needs charging when:

- A new battery is installed in the handset.
- The telephone beeps four times when you press **PHONE**.
- The battery status symbol on the LCD display is only partially displayed.
- The telephone does not respond when you press **PHONE** and no light goes on.

To charge the handset battery, place the handset in the base face-down (or face-up if the base is installed on a table) so that the CHARGING light on the base unit turns on. The battery pack is typically fully charged in four hours.

To extend battery life, replace the handset in the base after using it for a typical business day, or when one of the conditions described above occurs.

If you repeatedly get a low battery indicator, even after four hours of charging, the battery should be replaced. See "Replacing the Handset Battery Pack" later in this chapter.

 CAUTION:

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

- Use only a Model 3091 battery.
- Do not dispose of the battery in a fire. The cell might explode. Check with local codes for special disposal instructions.
- Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
- Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause harm.
- Charge the battery provided with, or identified for use with, this product only, in accordance with the instructions and limitations specified in this guide.
- Observe proper polarity orientation between the battery and the charge contacts.

Replacing the Handset Battery Pack

Follow these steps to replace the handset battery pack.

- 1 Remove the battery compartment cover on the handset by pressing on the indentation and sliding the cover downward.
- 2 Remove the old battery pack.
- 3 Place the new battery pack in the compartment.
- 4 Make sure the metal contacts on the end of the battery are aligned with the charging contacts in the battery compartment.

- 5 Replace the cover by sliding it on its track up over the battery compartment until it snaps firmly into place.
- 6 The new batteries must be charged before using the telephone. Place the handset face-down in the base (or face-up if the base is installed on a table) and allow it to charge for at least four hours. Although the telephone may operate before that, let the batteries charge fully for best performance.

Charging the Spare Battery Pack

The spare battery pack is the Model 3091, which must be purchased separately. Follow these steps to charge the spare battery pack.

- 1 Open the base unit battery compartment.
- 2 Place the optional spare battery pack in the battery compartment.
- 3 Make sure the metal contacts on the end of the battery are aligned with the charging contacts in the battery compartment.
- 4 Replace the battery compartment cover.
- 5 When the battery is installed properly, the **SPARE BATT CHARGING** light on the base unit lights.
- 6 The spare battery is fully charged after 15 hours.

Resetting the Registration Code

There are three ways to reset the registration code. First try Method One, which is the easiest. If this does not work, then try Method Two. If Method Two does not work, try Method Three.

Method One

Follow these steps to reset the registration code.

- 1 Place the handset in the base, making sure the **CHARGING/HANDSET IN USE** light is on.

- 2 Wait 30 seconds, then pick up the handset and press **PHONE**.

The phone should operate properly. If it does not, try the next method.

Method Two

Follow these steps to reset the registration code.

- 1 Remove the handset battery.
- 2 Wait 30 seconds and then replace the battery in the handset battery compartment.
- 3 Return the handset to the base and wait 10 seconds.
- 4 Pick up the handset and press **PHONE**.

If the telephone still does not operate properly, try the next method.

Method Three

Follow these steps to reset the registration code.

- 1 Unplug the power adapter from the electrical outlet.
- 2 If you have installed a spare battery in the base, remove it.
- 3 Wait 30 seconds and plug the adapter back into the electrical outlet.
- 4 Return the spare battery to the base.
- 5 Remove the handset battery and then replace it.
- 6 Place the handset in the base, making sure the **CHARGING/HANDSET IN USE** light is on.
- 7 Wait another 10 seconds, pick up the handset, and press **PHONE**.

The telephone should operate properly.

7 Troubleshooting

This chapter provides information on troubleshooting and range of operation.

About Troubleshooting

If you have difficulty operating the Business Cordless 905 telephone, try the following suggestions. If these do not resolve the problem, call Lucent Technologies Customer Support at 1-800-222-3111.

If...	Then...
The telephone does not link up and there is no LCD display	Check the following items in the order provided. 1 Make sure the battery pack is installed correctly. See "Installing the Handset Battery" in Chapter 3. 2 Recharge the batteries. See "Charging the Handset Battery Pack" in Chapter 6.
The telephone beeps four times when you press PHONE	This indicates a low handset battery voltage condition. The battery icon in the handset LCD is only partially displayed. 1 Recharge the battery or change to the spare battery. See "Charging the Handset Battery Pack" or "Replacing the Handset Battery Pack" in Chapter 6. 2 If the battery pack will not charge, replace it with a new Model 3091 battery.

If...	Then...
You hear a two-beep signal and see CAN'T FIND BASE on the handset display	The handset and base are not communicating properly. This may be occurring for any of the following reasons. • You are out of range. Move closer to the base and try the call again. If you are on a call, your call is put on hold. To retrieve the call once you are back in range, press the line button associated with the icon that is winking. • The handset and base are set to different registration codes. If moving closer to the base does not solve the problem, reset the registration code. See "Resetting the Registration Code" in Chapter 6. • The base is not powered. Put the handset in the base unit. If the CHARGING/HANDSET IN USE light does not go on, make sure the power cord is plugged into the base unit and into an electrical outlet. If the CHARGING/HANDSET IN USE light still does not go on, the base is defective, or there is no power at the electrical outlet.

If...	Then...
The variable data in the LCD display is all solid rectangles. (See "Handset Display" in Chapter 2 for location of the variable data in the display.)	Check the following in the order provided. 1 Check the line cord connections at the Business Cordless 905 telephone and at the communications system switch. 2 If the connections are good, check to see if the other telephones on the system are working. If they are not, there is a problem with the switch. 3 If the other telephones are working, take the following steps. • For PARTNER Communications Systems: At the same station port, replace the Business Cordless 905 telephone with a corded PARTNER telephone or with another working 905 telephone. • For MERLIN Communications Systems: At the same station port, replace the Business Cordless 905 telephone with another working 905 telephone, or connect a corded MERLIN telephone with a standard MERLIN line cord. (A corded MERLIN telephone will not work if used with the special MERLIN cord required for the 905 telephone.) Attempt to place an intercom call. If you still do not get an intercom dial tone, the system port or wiring is bad. If you move the Business Cordless 905 telephone to another station port on the system, the new port will have to be reprogrammed. See "PARTNER Systems" or "MERLIN Systems" in Chapter 4 for more information.

If...	Then...
You have no dial tone	Check the following in the order provided. 1 Check to see if the PHONE light is on. If it is not, press PHONE. 2 Refer to the line status indicators to verify that you are active on a line or intercom. If not, press the appropriate line button. If line status indicators do not reset, you are not communicating with the switch. If you get dial tone on some of your lines, but not on all of them, there is a problem with the specific line or the switch, rather than with the telephone. 3 Check the line cord connections at the Business Cordless 905 telephone and at the switch. If the connections are good, do the following: • For PARTNER Communications Systems: At the same station port, replace the Business Cordless 905 telephone with a corded PARTNER telephone or with another working 905 telephone. • For MERLIN Communications Systems: At the same station port, replace the Business Cordless 905 telephone with another working 905 telephone, or connect a corded MERLIN telephone with a standard MERLIN line cord. (A corded MERLIN telephone will not work if used with the special MERLIN cord required for the 905 telephone.) Attempt to place an intercom call. If you still do not get an intercom dial tone, the system port or wiring is bad. If you move the Business Cordless 905 telephone to another station port on the system, the new port will have to be reprogrammed. See "PARTNER Systems" or "MERLIN Systems" in Chapter 4 for more information.

If...	Then...
You hear noise or interference when using the telephone	Do the following in the order provided. 1 Move closer to the base, since you may be out of range. 2 Press SHIFT + CHAN on the handset. This activates the channel search feature and changes to another available channel. 3 If the noise is exceptionally loud, move closer to the base before changing channels. 4 Household appliances plugged into the same circuit as the base may sometimes cause interference. Try moving the appliance or the base to another outlet. 5 The layout of your home or office may be limiting the operating range. Try moving the base to another location, preferably on an upper floor.
The telephone does not ring when you receive a call	Do the following in the order provided. 1 Make sure the handset RINGER switch is set to ON. 2 Make sure the telephone line cord is connected firmly to the base and the station port. 3 Make sure the power cord is plugged into an electrical outlet that is not controlled by a wall switch. 4 Make sure the communications system switch setting allows ringing on lines. 5 Since you may be too far from the base, try moving closer.
The telephone misdials or you do not hear the other person right away	It may take a few seconds for your handset to find a good connection to the telephone system. While it is searching, the PHONE light blinks rapidly. Do not start dialing until the PHONE light is steadily on and you hear a dial tone.

About the Operating Range

The Business Cordless 905 telephone handset and base can communicate over a distance of approximately 50 to 150 feet, depending upon the locations of the base and the handset, the weather, and the construction of your home or office.

The following descriptions identify some out-of-range situations that may occur.

- If you hear two short beeps in the handset when you make a call, this indicates that you are out of range and the base and handset cannot communicate. The message **CAN'T FIND BASE** appears on the handset LCD display. If this happens, move closer to the base to restore normal operation.
- If you receive a call while you are out of range, the handset may not ring, or if it does ring, the call may not connect when you press **PHONE**. Move closer to the base and then press **PHONE** to answer the call.
- If you move out of range during a telephone conversation, you will be interrupted by silence, noise, or other interference. The message **SEARCHING...** will appear on the handset LCD display. The call will remain connected. To improve reception, move closer to the base.
- If you move out of range and lose communication with the base, the call will be put on HOLD. To retrieve the call, walk back into range, periodically pressing **PHONE** until you successfully communicate with the base (the **CAN'T FIND BASE** message will disappear from the handset display). Then press the line button to select the line that was put on HOLD.

A Ordering Information

This appendix provides information on ordering additional parts for the Business Cordless 905 telephone.

**Ordering
Additional
Parts**

To order replacement parts in the continental U.S., call the Sourcebook Sales, Catalog Sales, or National Parts Sales Center toll free. When ordering, please use the part numbers shown in the following table.

Item	Sourcebook Sales 1-800-451-2100	Catalog Sales 1-800-635-8866	National Parts Sales Center 1-800-222-PART
Business Cordless 905 Telephone	320602B	320602B	108166059
Battery Pack	32091	32091	407759729
Handset Belt Clip	3206-CLP	3206-CLP	847903614
7-foot Telephone Line Cord (PARTNER)	3206-PLC	3206-PLC	105463012
7-foot Telephone Line Cord (MERLIN)	3206-MLC	3206-MLC	848069068
Mounting Plate	1034	1034	102251469

Using the Wall Mount Template

Use the template below to position the screws for mounting the base unit.

- 1 Cut out the template along the dotted line.
- 2 Lightly affix the template to the wall with tape where you want to attach the base unit. If possible, choose a location that will position at least one of the screw holes over a wall stud.
- 3 Mark the wall and then remove the template.

