

Partner® Advanced Communications Systems Installation

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Notice

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

Federal Communications Commission (FCC) Interference Notice

This equipment has been tested and found to comply with the limits of a Class A or Class B digital device, pursuant to Part 15 of FCC rules. For additional FCC information, see the FCC Notice at the beginning of the *PARTNER Advanced Communications System Programming and Use* guide.

Canadian Emissions Requirements

This digital apparatus does not exceed the Class A or Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Industry Canada (IC). For additional IC information, see the IC Notification and Repair Information at the beginning of the PARTNER Advanced Communications System Programming and Use guide.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la classe A ou de la classe B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Industrie Canada. Vous trouverez des renseignements complémitaires à la PARTNER Advanced Communications System Programming and Use manuel.

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Toll fraud, the unauthorized use of your telecommunications system by an unauthorized party (for example, persons other than your company's employees, agents, subcontractors, or persons working on your company's behalf) can result in substantial additional charges for your telecommunications services. You are responsible for the security of your system. There may be a risk of toll fraud associated with your telecommunications sytem. You are responsible for programming and configuring your equipment to prevent unauthorized use. Your system manager should read all documents provided with this product to fully understand the features that can introduce the 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. If you suspect you are being victimized by toll fraud and you need technical support or assistance, call Lucent Technologies National Customer Care Center at 1 800 628 2888.

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Warranty

Lucent Technologies provides a limited warranty for this product. See Appendix B of the *PARTNER Advanced Communications System Programming and Use* guide.

Ordering Information

The order number for this book is 518-456-152. To order additional books, call 1 800 457 1235 in the continental U.S. or 1 765 361-5353 outside the continental U.S. For information about ordering other system reference materials, replacement parts, accessories, and other compatible equipment, see "Product Ordering Information" in Appendix B of the *PARTNER Advanced Communications System Programming and Use* guide.

Support Telephone Number

In the continental U.S., Lucent Technologies provides a toll-free customer hotline 24 hours a day. Call the hotline at **1 800 628-2888** or your Lucent Technologies Authorized Dealer if you need assistance when installing your system. Consultation charges may apply.

Outside the continental U.S., contact your Lucent Technologies Representative or local Authorized Dealer

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Important Safety Instructions

The following list provides basic safety precautions that should always be followed when using your telephone equipment:

- 1. Read and understand all instructions.
- 2. Follow all warnings and instructions marked on the product.
- 3. Unplug all telephone connections before cleaning. DO NOT use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 4. This product should be serviced by (or taken to) a qualified repair center when service or repair work is required.
- 5. DO NOT use this product near water, for example, in a wet basement location.
- 6. DO NOT place this product on an unstable cart, stand, or table.
- 7. Never push objects of any kind into slots or openings as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
- 8. DO NOT use the telephone to report a gas leak in the vicinity of the leak.
- 9. The product is provided with a three-wire grounding type plug. This is a safety feature. DO NOT defeat the safety purpose of the grounding type plug. DO NOT staple or otherwise attach the power supply cord to building surfaces.



A CAUTION:

DO NOT block or cover the ventilation slots or openings. They prevent the product from overheating. DO NOT place the product in a separate enclosure unless proper ventilation is provided. DO NOT place the product flat on a surface. The control unit must be wall-mounted.

Additional Safety Instructions for Installation Personnel

- 1. DO NOT install telephone wiring during a lightning storm.
- 2. DO NOT install telephone jacks in a wet location unless the jack is specifically designed for wet locations.
- 3. Never touch uninsulated telephone wires or terminals, unless the telephone line has been disconnected at the network interface.
- 4. Use caution when installing or modifying telephone lines.
- 5. The control unit must be securely wall mounted.
- 6. supply cord to building surfaces.



A CAUTION:

If any wiring from the extension jacks leaves the building premises, you must install Lucent Technologies™ IROB protectors (see "Requirements for Out-of-Building Extensions" on page 36.)



A CAUTION:

Use only Lucent Technologies-manufactured PARTNER modules in the PARTNER Advanced Communications System.



A CAUTION:

Environmental and electrical conditions must meet the requirements as listed on page 36.

SAVE THESE INSTRUCTIONS

Installation

Overview

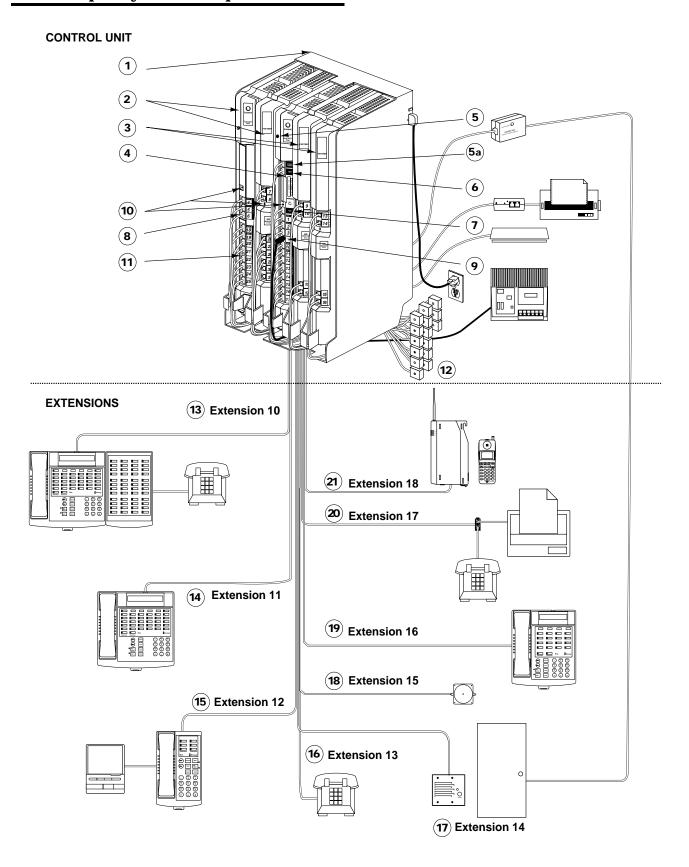
This guide explains how to install the PARTNER® Advanced Communications System (ACS) Releases 1.0, 1.1, 2.0 or later. The information applies to all releases unless otherwise specified.

This guide begins with an example system setup, then shows the components you need to install the system and gives general guidelines to consider before installation. Next, it provides step-by-step instructions for connecting and testing the components for initial installation and upgrades. Finally, it lists important system specifications. Make sure that your installation meets all electrical and environmental requirements.

If your company already has modular jacks for all outside lines and extensions, you may be able to use the existing wiring to install the system hardware and connect telephones to the system yourself. To have a Lucent Technologies service technician install and customize your system or change existing wiring, call 1 800 247-7000 (in the continental U.S. only) or call your Lucent Technologies Representative or local Authorized Dealer.

After installation, refer to the PARTNER Advanced Communications System Programming and Use guide for programming instructions.

An Example System Setup



Required Parts

You may have multiple system component packages; Figure 1 shows the package contents. Check your packages to be sure you have the parts shown here (if not, call for support as instructed on the inside front cover of this guide).

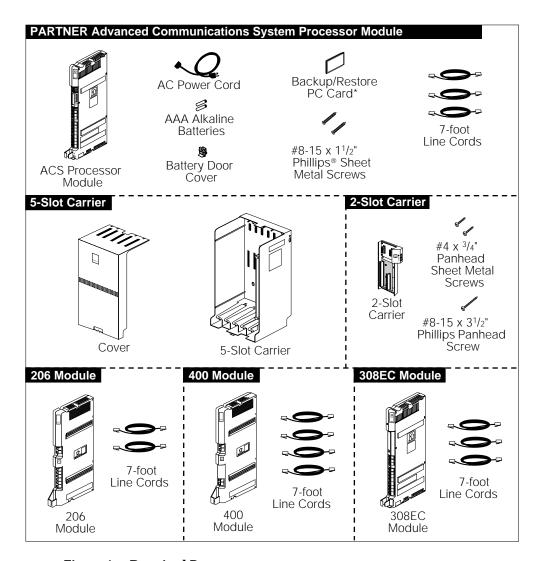


Figure 1. Required Parts

For a 5-Slot carrier, you will need to obtain four #12 screws of the appropriate type for the wall and weight of the control unit (a control unit with four 206 modules and a processor module weighs approximately 31 pounds or 14 kilograms). The weight of other configurations may vary slightly.

In addition, if you need modular telephone cords to connect the extension jacks in the control unit to the modular connecting blocks for extensions in the equipment room, short telephone cords or wall plates to wall mount PARTNER-model phones, or a 355A/355AF adapter and D8W telephone cord to connect a call reporting device, order them before installation. Refer

The Backup/Restore PC Card is included with the PARTNER ACS processor module when the system is purchased in the United States or Canada. Otherwise, it can be purchased separately.

to "Product Ordering Information" in Appendix B of the *PARTNER Advanced Communications System Programming and Use* guide for ordering instructions.

The PARTNER ACS processor module and the 206EC, 308EC, and 400EC modules support the Caller ID feature. These modules are required to provide Caller ID information on system display phones. You must subscribe to Caller ID service from your local telephone company (if it is available), and connect any lines associated with this service to the line jacks on the processor module, the 206EC module, the 308EC module, or the 400EC module. Hereafter, references in this guide to 206 modules include 206E, 206EC, and all 206 modules used with previous releases of the product. Similarly, references to 400 modules include 400E, 400EC, and all 400 modules used with previous releases of the product.

NOTE:

A system display phone is required for programming at extension 10 and/or 11. If you have any 34-button phones in the system, you must use a 34-button display phone to program since an 18-button phone cannot be used to program a 34-button phone. Also, if your system has both PARTNER-model and MLS-model phones, it is recommended that you use a PARTNER-model display phone at the programming extension.

Installation Guidelines

Telephones and Devices

You can connect the following telephones and devices to the system:

- PARTNER-model, MLS-model, MDC 9000, and TransTalk[™] 9000-series System Phones. System phones require at least two-pair wiring and are compatible with Lucent Technologies 4-pair SYSTIMAX[®] wiring.
- Call Assistant Intercom Autodialers with Busy Indication (PARTNER-CA48 for PARTNER-model phones or MLS-CA24 for MLS-model phones). You can connect an Intercom Autodialer to the system phones at extension 10 and 11. The Intercom Autodialer connects to the system phone using an adapter that is shipped with the autodialer.
- Industry-Standard Devices. Industry-standard devices (including standard phones) require one-pair mounting cords; Lucent Technologies D2R mounting cords are recommended.
 - Standard Phones. Connect standard touch-tone or rotary dial phones to the system for:
 - Power Failure Operation. During a power failure, system phones will not work because they require power to operate. However, if you connect standard phones to the first two extensions on the PARTNER ACS processor module, users can place and answer outside calls on the first two lines. If you connect a standard phone to the first extension on each 206 module, or the first two extensions on each 308EC module, users can place and answer outside calls on any of these lines. You can connect a standard phone either alone or combined with a system phone. For more information, see "Combination Extensions" on page -8.
 - Hotlines. A hotline extension should be connected to a standard phone, rather than a system telephone, but can ring any type of phone. An internal hotline phone can also be set up to ring the paging system, so announcements can be made over the loudspeaker. Do not connect a hotline phone to extension 10, 11, or the first two extensions of any 206 or 308EC module, to keep these extensions available for power failure use.

For message waiting capability, you must connect standard phones with LED-compatible message-waiting lights to a PARTNER ACS processor module, 308EC modules, or Release 3.1 (R3.1) or later 206 modules. This message- waiting capability does not work with standard phones with neon-type message-waiting lights.

- Auxiliary Equipment. There are a variety of ways to set up fax machines, modems, and answering machines to work with the system. See Chapter 4 in the PARTNER Advanced Communications System Programming and Use guide for advice on using this equipment. To connect a telephone and a standard device on the same extension, see (Combination Extensions"/On page -8.
- **Doorphones.** You can connect up to two doorphones to the system. Do not connect doorphones to extension 10, 11, or the first two extensions of any 206 or 308EC module.
- Contact Closures. You can connect up to two Contact Closure devices such as door locks to the Contact Closure Adjunct so that the devices can be activated from an extension on a user s desk.
- Voice Messaging Systems. The system supports the following voice messaging systems:
 - The PARTNER MAIL VS[®] System. This device, which physically resembles a 206 module, resides in the control unit.
 - The PARTNER MAIL[®] System. This device connects to the system through extension jacks. Do not connect PARTNER MAIL to extension 10, 11, or the first two extensions of any 206 or 308EC module to keep these extensions available for power failure use.

- The PARTNER Voice Messaging PC Card. For more information on using this voice messaging system, see the PARTNER Voice Messaging PC Card Installation, Programming and Use Guide.
- Call Reporting Devices. You can connect either a serial printer or a call accounting device, such as Lucent Technologies Call Accounting Terminal, to the SMDR jack on the processor module to record and/or analyze call activity.
- In-Range Out-of-Building Protectors. Installing phones or other standard devices (such as a doorphone) in a location other than the building where the control unit is installed requires Lucent Technologies In-Range Out-of-Building (IROB) protectors, to prevent damage from lightning. (IROBs must be installed by a qualified technician.)

Combination Extensions

You can connect a standard device (such as a standard phone or an answering machine) on an extension by itself, or so that it shares an extension with another piece of equipment (either another standard device or a system phone). An extension with two devices connected to it is called a *combination extension*. (If you combine a standard phone and a system phone on one extension, you may want to turn off the standard phone s ringer during normal use.)

You cannot install two system phones on the same extension, and the combined REN (Ringer Equivalence Number) of two devices on one extension cannot exceed 2.0. (The REN for a system phone is 0.0.)



The Call Assistant Intercom Autodialer is not regarded as a standard device. This means you can connect a standard device to a system phone that also has an Intercom Autodialer installed.

PARTNER-model system phones have a built-in auxiliary jack so you can connect a standard device directly to the phone without using a bridging adapter see "Using A Direct Connection", below. If your phone does not have a built-in auxiliary jack or if you want to connect two standard devices together, you must use a Lucent Technologies 267F2 Bridging Adapter see "Using a Bridging Adapter", below.

Using A Direct Connection

<u>Figure 2</u> shows how to connect a standard device directly to a system phone, using the phone s built-in auxiliary jack. (<u>Figure 2</u> is for illustration purposes only; the placement of the jacks on your phone may differ.)

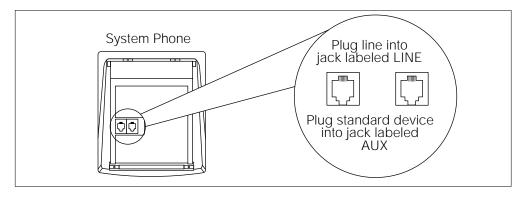


Figure 2. Combination Extension Using Direct Connection

Using a Bridging Adapter

<u>Figure 3</u> shows how to connect a system phone and a standard device or two standard devices using a (separately orderable) Lucent Technologies 267F2 Bridging Adapter.

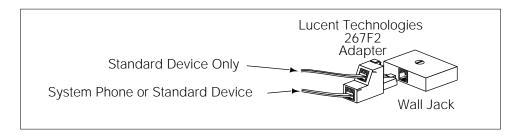


Figure 3. Combination Extension Using Bridging Adapter

Installation Procedures

Before installing the system, be sure you read the safety instructions on page ii.

The PARTNER Advanced Communications System can be installed in one of three configurations:

- standalone PARTNER ACS processor module.
- 2-Slot carrier, which can hold up to two modules.
- 5-Slot carrier, which can hold up to five modules and includes a cover.

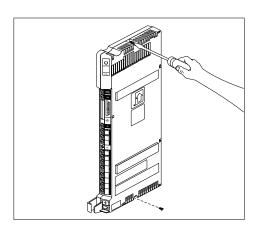
The standalone processor module or a carrier and its modules are referred to as the control unit. The control unit must always be wall-mounted. See the following sections for wall-mounting instructions.

Wall-Mounting a Standalone PARTNER ACS Processor Module

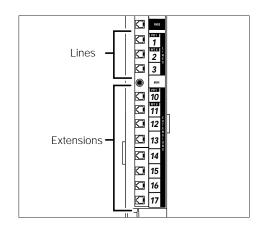
Install the PARTNER ACS processor module within 5 feet (1.5 meters) of a properly grounded wall outlet (not controlled by a switch) and the network interface jacks.

- 1
- A) Hold the PARTNER ACS processor module against the wall with the line and extension jacks facing left.
- B) Leave at least 1 foot (0.3 meters) clearance at the top, front, and right side, and at least 2 feet (0.6 meter) at the bottom and left side. This allows you to access the jacks or expand the system with another module, and ensures adequate ventilation.
- 1' (0.3 m) (0.6 m) 1' (0.3 m) 1' (0.3 m)

- 2
- A) Insert one of the #8 sheet metal screws into the screw hole at the top of the module.
- B) If you are not installing a second module, insert the other #8 sheet metal screw into the screw hole at the bottom of the module. If you are installing a second module, do not screw in the bottom screw at this time.
- C) Tighten the screw(s) until the mounting tracks are snug against the wall. There must be a 3/8" (1 cm) gap between the wall and the rest of the module. Do not overtighten the screw(s) the module will warp and fail to operate.



- A) Label the line and extension jacks as shown.
 - B) If you are installing a two-module system, continue with "Wall-Mounting a 2-Slot Carrier and Modules"; otherwise, skip to "Inserting Batteries in the PARTNER ACS Processor Module".



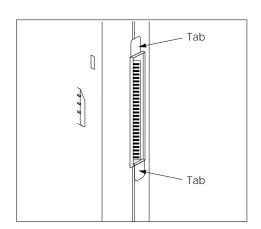
Wall-Mounting a 2-Slot Carrier and Modules

To wall-mount a 2-Slot Carrier, first follow the instructions in <u>"Wall-Mounting a Standalone PARTNER ACS</u> Processor Module".

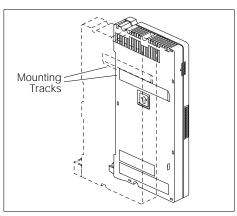
NOTE:

To add a 308EC module to a PARTNER ACS module, the ACS processor module must already be mounted on the wall. If it is not, refer to "Wall-Mounting a Standalone PARTNER ACS Processor Module" on the previous page for instructions. Before starting, disconnect the power cord from the power jack on the carrier. Then follow the instructions below.

You can install a 206, 308EC, 400, or PARTNER MAIL VS module as the second module, using the following steps:



- Remove the clear, plastic protector from the connector on the right side of the new 308EC module by grasping the tabs on the ends of the protector and lifting. If you are upgrading from a standalone system, also remove the protector from the wall-mounted ACS processor module.
- A) Remove the #8 sheet metal screw from the bottom of the wall-mounted module or modules.
 - B) If you are upgrading an existing single module system, skip to Step 4B.
- If you are replacing the second module in a two-slot carrier, remove the two #4 screws holding the carrier in place, and gently pull the carrier off the modules.



- Slide the second module off the PARTNER ACS module and put it aside.
- B) Slide the 308EC module onto the PARTNER ACS module, making sure the mounting tracks interlock, as shown in the side view.

A CAUTION:

Do not force the module. If it does not insert easily, remove the module, clear any obstruction, and reinsert it.

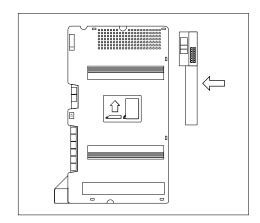
- 5
- Attach the 2-Slot carrier to the top right side of the two modules.
- Fasten the carrier to the modules using the two #4 screws included with the carrier.
- Insert the 3-1/2" #8 screw into the bottom of the modules. Tighten it until the mounting tracks of the PARTNER ACS module are flush against the wall with a 3/8" (1cm.) gap between the wall and the rest of the PARTNER ACS module. Do not overtighten the modules will warp.

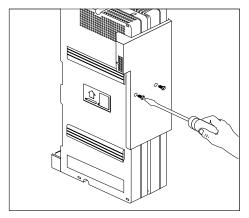


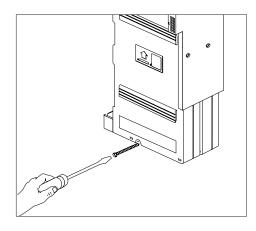
- Label the lines and extension jacks as shown.
- B) Connect modular phone cords to the extension jacks, starting at the top extension jack on the PARTNER ACS processor module.
- Route each cord through the hook on the front of its module.
- D) Connect the free end of each phone cord to the modular wall jacks for system extensions.

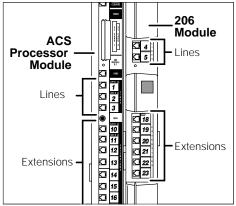


- Attach one end of a # 12 AWG or # 14 AWG solid copper wire to the grounding screw on the primary processor module. Note that the length of the wire must not exceed 35 feet (7.6 meters).
- B) Route the wire through the hook on the front of the module.
- Attach the other end of the wire to the approved earth ground, such as building steel or cold water pipe.









- 9 Press the power cord firmly into the power jack on the carrier. Plug the other end of the power cord into a properly grounded three-prong wall outlet not controlled by a switch.
- 10 Check the green lights on the fronts of the modules. If a single light is out, power down the carrier, reseat the module, then power up the carrier. If both green lights are out, power down the carrier, reseat both modules, then power up the carrier. If the lights are out, in the continental U.S. call the hotline at 1 800-628-2888. Outside the continental U.S., contact your Lucent Technologies Representative or local Authorized Dealer.

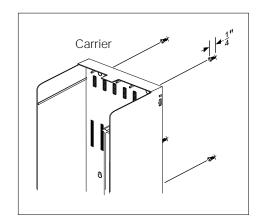
Wall-Mounting a 5-Slot Carrier and Modules

Install the 5-Slot carrier within 5 feet (1.5 meters) of a properly grounded wall outlet (not controlled by a switch) and the network interface jacks. In addition, when you mount the carrier on the wall, leave at least 1 foot (0.3 meter) of clearance at the top and sides, and two feet (0.6 meter) at the front and bottom to ensure proper ventilation.

NOTE:

The location of each module within the carrier is important; place them as instructed in the following procedure.

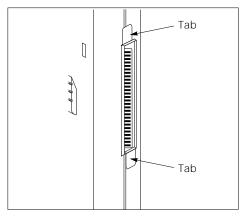
- 1
- A) Hold the 5-slot carrier against the wall.
- B) Using the four screw keyholes in the carrier as a template, mark screw locations on the wall.
- C) If you re mounting the carrier on plywood, start four #12 screws supplied with the carrier leaving the screw heads extending approximately 1/4 (.64 cm) from the wall. If you are mounting on drywall, use wall anchors, which must be purchased.



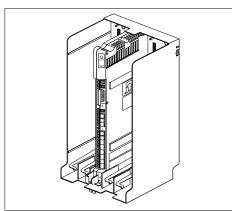
Before installing any modules, make sure the clear, plastic protector has been removed from the connector area on the rear of each module. To remove the protector, grasp the tabs on the ends of the protector and lift.



308EC and 206 modules must be to the left of any 200 and 400 modules.



- 3
- A) Verify that the PARTNER ACS processor module is in the center slot of the carrier. In the other slots, from left to right, first install the 308EC or 206 modules followed by the 400 or 200 modules.
- B) Align the module carefully in the appropriate slot, and push slowly but firmly in the center of the module until the connectors on the module lock into place, and the module is attached to the rear of the carrier.

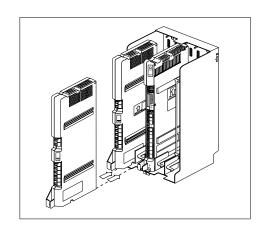


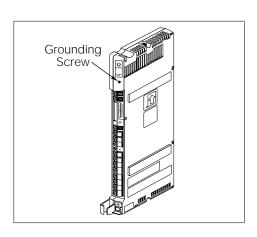


A CAUTION:

Do not force the module. If it does not insert easily, remove the module, clear any obstruction, and reinsert it.

- 4
- A) Label the line and extension jacks.
- B) Connect line and telephone cords to the appropriate jacks on the new module.
- C) Route each cord through the hook on the front of its module.
- D) Connect the free end of each line cord to the appropriate network interface jack.
- E) Connect the free end of each telephone cord to the modular connecting blocks for system extensions.
- F) Gather the line and extension cords hanging below the hook and twist tie or wire wrap them.
- G) Place the bundle of wires in the indentation on the bottom of the carrier.
- A) Attach one end of a # 12 AWG or # 14 AWG solid copper wire to the grounding screw on the primary processor module. Note that the length of the wire must not exceed 35 feet (7.6 meters).
 - B) Route the wire through the hook on the front of the module.
 - Attach the other end of the wire to the approved earth ground, such as building steel or cold water pipe.
- A) Plug the power cord into a properly grounded three-prong wall outlet not controlled by a switch.
 - B) Power up the control unit by moving the On/Off switch to the "On" position ("—").
- A) Check the green lights on the fronts of the modules.
 - B) If a single light is out, power down the carrier, reseat the module, then power up the carrier. If multiple lights are out, power down the carrier, reseat the leftmost module that has a light out, then power up the carrier.
 - C) If the lights are still out, in the continental U.S. call the hotline at 1 800-628-2888. Outside the continental U.S., contact your Lucent Technologies Representative or local Authorized Dealer.
- Continue with Inserting Batteries in the PARTNER ACS Processor Module.





Inserting Batteries in the PARTNER ACS Processor Module

The PARTNER ACS processor module uses two user-replaceable, AAA-size standard alkaline batteries to guard against the loss of system programming in case of a power failure. These batteries will retain the system programming for 45 days to 6 months, depending on the freshness of the batteries. It is recommended that you replace the batteries with fresh ones every year.

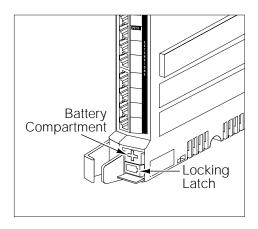


A CAUTION:

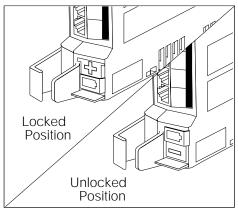
If this is a new installation, you need to install batteries. Batteries and battery cover may be packed in a separate box. If you are replacing batteries, the old batteries must be removed with the power on or the system s memory will be lost.

Use the following procedure to replace the batteries:

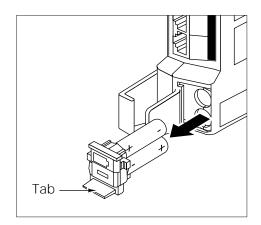
Locate the battery compartment at the bottom of the PARTNER ACS processor module, below the extension jacks.



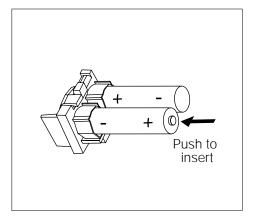
Push gently on the battery icon (the locking latch) and slide the battery icon up to cover the plus icon, which unlocks the battery assembly.



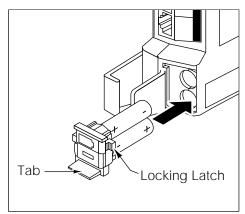
Remove the battery assembly by gently pulling the tab at the bottom of the battery compartment cover.



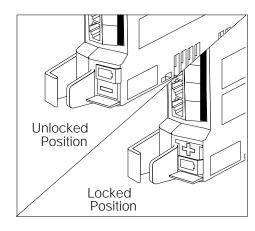
Insert two new AAA-size standard alkaline batteries into the metal battery clips by pushing them straight in, placing the negative (–) end of one battery into the bottom clip, and the positive (+) end of the other battery into the top clip.



- With the locking latch in the unlocked position (battery icon and "minus" icon visible), slide the battery assembly into the processor module along the battery guides on the inside of the battery compartment.
- Make sure the battery assembly is pushed in far enough that the edges of the assembly slip behind the plastic housing of the processor module.



Pressing lightly on the battery icon on the front of the battery assembly, slide the locking latch downward to secure the assembly in place. The "plus" icon and the battery icon should now be visible on the front of the battery assembly. This is the locked position.



Initializing the System

NOTE:

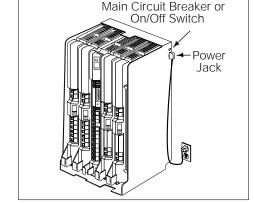
The system must be powered down before you insert or remove a PC Card.

The Backup/Restore, Automatic System Answer/Direct Extension Dial, PARTNER MAIL Basics and software upgrade features of the system all require the use of a PC card. If you plan to use any of these features, insert the appropriate PC Card in a PC Card Slot before applying to the system. See "Inserting or Removing a PC Card" later in this guide.

Before you can use PARTNER MAIL *Basics*, the PARTNER ACS must be upgraded from Release 1.0 to Release 1.1 or later. PARTNER MAIL *Basics* does not work with ACS Release 1.0.

To apply the PARTNER ACS Release 1.1 or Release 2.0 or later software upgrade, use the following procedure:

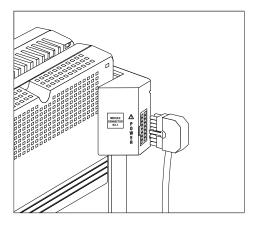
- Insert the PC Card in the PC Card Slot before powering up the system for the first time.
- Power up the system as described in the following procedure. While the system upgrades, the bicolor (red/green) power LED on the processor flashes green and red alternately. When the upgrade has finished (in about 20 seconds), the power LED becomes steady green.



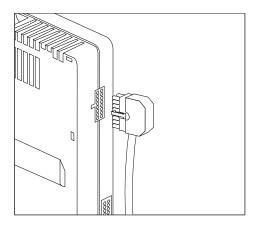
- 3 Power down the system.
- Remove and discard the one-time-use software upgrade card.
- 5 Repower the system.

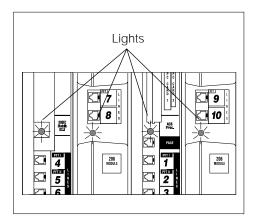
To power up the system, use the following procedure:

- A) If you have a Standalone or a 2-Slot carrier configuration, skip to Step 1B. If you have a 5-Slot carrier, move the carrier s On/Off switch to the "Off" position ("O").
 - B) Press the power cord firmly into the power jack on the carrier or Standalone PARTNER ACS processor module until it locks into place. (See the illustrations on this page for the location of the power jack for each type of configuration.)
 - C) Plug the other end of the power cord into a properly grounded three-prong wall outlet not controlled by a switch.



- D) If you have a 5-Slot carrier, power up the control unit by moving the On/Off switch to the "On" position.
- Check all green lights on the fronts of the modules. If all the lights are lit, continue with <u>"Connecting Lines and Extensions"</u>; otherwise:
 - A) If a single light is out, power down the control unit, reseat the module, then power up the control unit.
 - If multiple lights are out, power down the control unit, reseat the leftmost module that has a light out, then power up the control unit.
 - B) If the lights are still out, call for support as instructed on the inside front cover of this guide.





Connecting Lines and Extensions

If extensions are not wired to any modular jacks, call a qualified service technician.

- 1
- A) Test for dial tone at the network interface jacks before connecting outside lines to the control unit. For the test, connect a standard phone to the first network interface jack.
- B) Lift the handset and listen for dial tone. (If there is no dial tone, contact your local telephone company before continuing.)
- C) Repeat for each network interface jack.
- 2
- A) Connect line cords to the line jacks on the ACS processor module, and the 206, and 400 modules. Start at the top with the line jacks on the processor module, and then move to the leftmost 206 or 308EC module. Fill each module before moving to the next module to the right.
- B) Route each cord through the hook on the front of the module.
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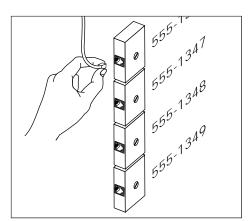
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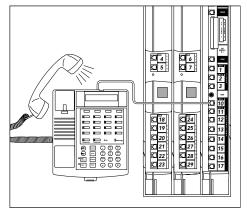
Network Interface Jacks

3 Connect the free end of each line cord to the appropriate network interface jack.





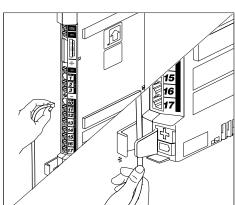
- A) Test the
 - A) Test the lines—plug a system phone into extension jack 10. Press the line buttons for each outside line and listen for dial tone.
 - B) Repeat for the first extension on each module.



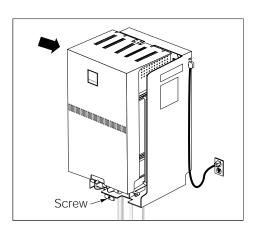
5 A) Connect modular telephone cords to the extension jacks, starting at the top extension jack on the PARTNER ACS processor module. When that module is full, move to the leftmost 206 or 308EC module. Fill each module before moving

on to the next module to the right

- B) Route each cord through the hook on the front of the module.
- Connect the free end of each modular telephone cord to the modular wall jacks for system extensions.
- D) Dress the wires. Gather the line and extension cords hanging below the hooks of the first two modules and twist tie or wire wrap them. Repeat for the remaining cords. For the 5-Slot carrier, place each bundle of wires in the indentations cut out of the bottom edge of the carrier.



- If you have a 5-Slot carrier configuration, install the cover as follows:
 - A) Make sure all modules are seated properly. The cover will not fit if the modules are not seated properly.
 - B) To cover the modules, grasp the upper edges of the cover and hold it squarely over the control unit. It is important to install the cover to keep the modules dust-free and the system working efficiently.
 - C) Place the cover over the modules and make sure it fits firmly in place.
 - D) Insert the #6 screw into the tab on the lower front of the cover. Tighten the screw.

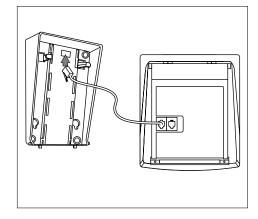


Assembling System Phones

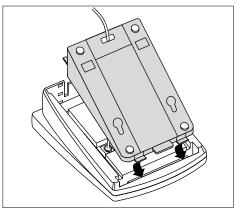
All PARTNER-model system phones are shipped with a stand for either desk mounting or wall mounting the phone.

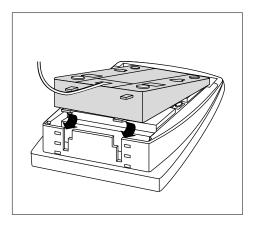
Desk Mounting

- 1
- A) Gently place the phone upside down.
- B) Route the telephone cord through the hole in the top center of the

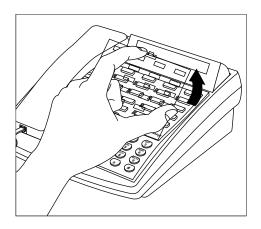


- Insert the tabs on the narrow end of the stand into the slots on the inside bottom edge of the phone.
- A) While pressing in the tabs that protrude from the wide end of the stand, lower the stand to the phone.
 - B) Release the tabs to lock the stand into one of the three positions provided by the openings in the back of the phone.
 - C) The height of the stand is adjustable to three positions: low, medium, and high. The phone height can be adjusted by moving the locking tabs to a different position.





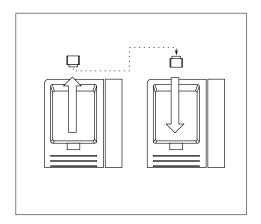
- 4
- A) Turn the phone over.
- B) Remove the plastic cover from the phone. Label the button sheet to show any programmed lines or button features, then place the button sheet on the phone so the holes fit over the buttons. Carefully replace the plastic cover.
- C) Adjust the swivel display to the desired angle (low, medium, or high).
- D) To access the *User Instruction Cards*, pull out the tray located under the front of the phone.



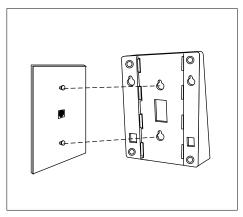
Wall Mounting

Wall mounting instructions apply only to PARTNER-model phones. For all other system phones, follow the instructions provided with the phone.

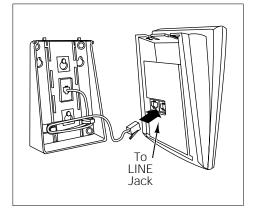
- 1
- A) Reverse the plastic hook that sits in the earpiece part of the handset cradle.
- B) Turn the phone upside down and remove the tray that holds the *User Instruction* cards: press the tabs on both sides of the tray near the pull out tab while you slide the tray straight out.



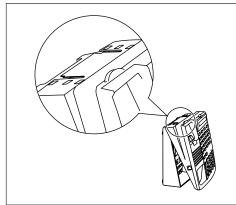
Holding the stand with the wide edge down, mount the stand on the wall plate using the keyholes on the base of the stand. For proper mounting, the wall plate must be a Lucent Technologies 630B connecting block.



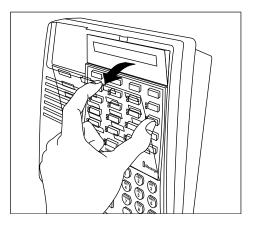
- 3
- A) Plug one end of the telephone cord into the jack in the center of the wall plate.
- B) Plug the other end of the telephone cord into the LINE jack on the bottom of the telephone.
- C) Wrap any excess cord around the cord wrap posts on the bottom inside of the stand.



- 4
- A) To mount the phone on the stand, insert the tabs on the top of the stand into the *middle* set of notches on the top edge of the phone.
- B) Make sure the telephone cord is neatly wrapped inside the phone, then rotate the phone down until the bottom edge snaps into position.



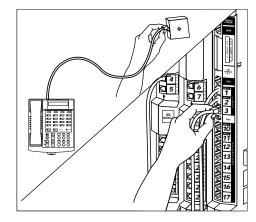
- 5
- A) Remove the plastic cover from the phone. Label the button sheet to show any programmed lines or button features, then place the button sheet on the phone so the holes fit over the buttons. Carefully replace the plastic cover.
- B) Make sure the swivel display is set to the lowest position.



Connecting and Testing Telephones

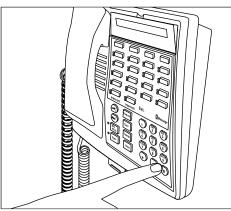
To connect a phone, plug the modular telephone mounting cord into a modular wall jack or directly into a module extension jack. (If you are connecting a standard phone and its mounting cord is loose, try a Lucent Technologies D2R mounting cord instead.)

To install two phones (or other devices) on a single extension jack, see Combination Extensions earlier in this guide.



- Test the telephone for proper operation. To test the power and lights on a system phone:
 - A) While the phone is idle, press and hold the # button for five seconds.
 - B) Before releasing the # button, lift the handset.

 All lights should light, the ringer should sound,
 and (on system display phones only) a test
 pattern should appear on the display. (If not, call
 for support as instructed on the inside front cover
 of this guide.)
 - C) Replace the handset; the phone is now in normal operating mode.

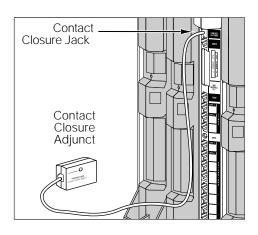


Connecting Contact Closure, Call Reporting (SMDR), Paging, and Music-On-Hold Devices

Only steps for connection to the processor module are provided here. See the manufacturer s instructions for more information about installing and using these devices.

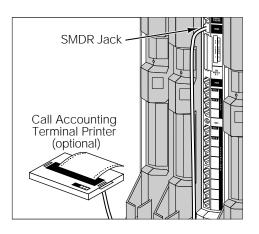
Contact Closure Adjunct

- Insert the modular plug into the Contact Closure jack, the first jack on the PARTNER ACS processor module.
- 2 Route the cord as you did for the line and extension cords, then connect the other end of the cord to the jack in the Contact Closure Adjunct.
- Have a qualified electrician wire the Contact Closure device or devices to the wiring receptacles in the other end of the Contact Closure Adjunct. See the information shipped with the Contact Closure Adjunct for wiring instructions.



Call Reporting (SMDR) Printer

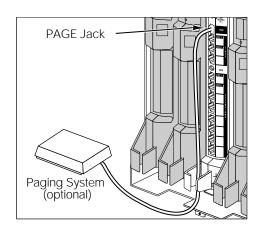
- Insert one end of a D8W modular cord into the SMDR jack, the second jack on the PARTNER ACS processor module.
- Plug the other end of the cord into a 355A adapter, then plug the adapter into the printer s RS-232C serial port.



Paging System

If you connect a paging system from a manufacturer other than Lucent Technologies, a paging interface may be required.

- Insert the modular plug into the PAGE jack on the PARTNER ACS processor module (located near the middle of the processor, just above the line jacks).
- 2 Route the cord as you did for line and extension cords, then connect the other end of the cord to the paging system.

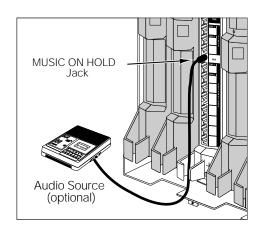


Music-on-Hold Audio Source

The performance of music over telephone lines is a public performance under United States Copyright law. Accordingly, in order for the performance of that music to be lawful, it must be licensed annually to the user by the copyright owners or their representatives.

You can purchase a Magic On Hold system from Lucent Technologies, 1 800 446-5366, which includes the required license for the first year. This license must be renewed annually.

- Insert an RCA phono plug into the MUSIC ON HOLD jack on the PARTNER ACS processor module (located near the middle of the processor, below the line jacks).
- 2 Route the cord as you did for line and extension cords, then connect the other end of the cord to the audio source.



Place a call on hold and listen. If you do not hear music at any setting, check Music On Hold (#602)" and Music On Hold Volume (#614) in Chapter 5 of the PARTNER Advanced Communications System Programming and Use guide.

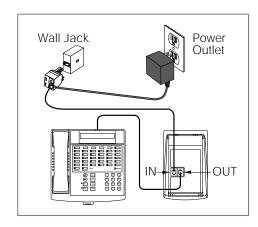
Connecting a PARTNER-CA48 Intercom Autodialer

The PARTNER-CA48 Intercom Autodialer is shipped with an adapter, a D8W line cord, a power cord, a power unit, and a button-labeling sheet.

NOTE:

The PARTNER-CA48 Intercom Autodialer can be wall mounted to work next to a wall-mounted system phone. See the instructions provided with the Autodialer.

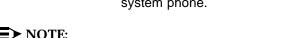
- 1 Plug the adapter into the wall jack.
- Plug one end of the D8W line cord into the J1 jack on the adapter.
 - B) Plug the other end of the D8W line cord into the IN jack on the bottom of the autodialer.
- 3 Plug the blue-tinted connector (labeled D8AC) of the power cord into the jack on the power unit.



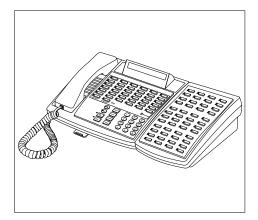
A CAUTION:

Use only the power unit supplied with the PARTNER-CA48 Intercom Autodialer.

- B) Plug the other end (clear tinted) of the power cord into the J2 jack on the adapter.
- C) Plug the power unit into an electrical outlet.
- Plug the phone s modular telephone cord (LINE jack) into the OUT jack on the bottom of the autodialer.
- Arrange the autodialer on the desk next to the phone.
 - Remove the plastic cover from the autodialer and label the button sheet with employee names. Place the button sheet on the autodialer, then carefully replace the plastic cover.
 - Adjust the height of the autodialer to match the system phone.



If you unplug the system phone that is connected to an autodialer, you must reset the autodialer. To do so, unplug the D8W line cord (connected to the IN jack on the bottom of the autodialer) from the J1 jack on the adapter, then plug it back in.



Equipment Upgrades

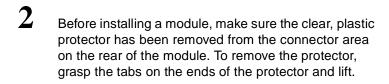
If you are upgrading from a standalone PARTNER ACS processor module to a 2-Slot carrier, see "Wall-Mounting a 2-Slot Carrier and Modules" earlier in this guide for instructions. If you are adding modules to an existing 5-Slot carrier, see "Adding New Modules", below.

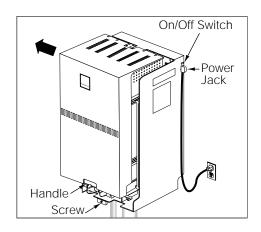
Adding New Modules

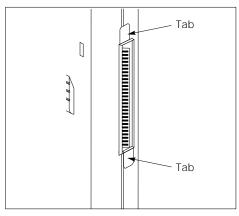
WARNING:

Before starting, verify that you have batteries installed in the PARTNER ACS processor module, and then disconnect the power cord from the power jack on the processor module. For an illustration showing the location of the power jack, see Initializing the System in this guide.

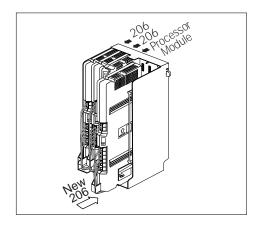
- Move the On/Off switch to the "Off" position ("O").
 - Loosen the screw on the lower front of the carrier B) s cover. Then place one hand on the handle on the lower front and place your other hand on the top of the cover.
 - Gently pull the cover up and away from the carrier be careful not to break the tabs that attach the cover to the carrier.



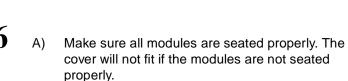




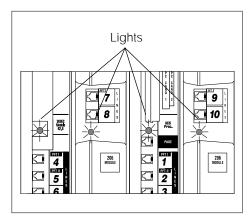
- A) Before you insert the new module, make sure that all 400 (or 200) modules are installed to the right of all 206 or 308EC modules. If you need to move a module to accommodate the new one, see Replacing System Modules later in this section.
 - B) Push slowly but firmly in the center of the module until the module locks into place, and is attached to the rear of the carrier. Do not force the module. If the module does not insert easily, remove it, clear any obstruction, and reinsert it.

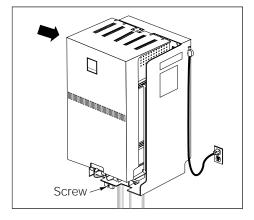


- 4
- A) See <u>"Connecting Lines and Extensions"</u> for instructions for connecting line and/or extension jack cords to the new module.
- B) Reconnect the power cord.
- C) Move the On/Off switch to the "On" position ("—").
- 5 Check that all green lights on the fronts of the modules are lit:
 - A) If a single light is out, power down the control unit, reseat the module, then power up the control unit.
 - If multiple lights are out, power down the control unit, reseat the leftmost module that has a light out, then power up the control unit.
 - B) If the lights are still out, call for support as instructed on the inside front cover of this guide.



- B) To replace the cover, grasp it by its upper edges and hold it squarely over the control unit.
- C) Place the cover over the modules and make sure it fits firmly in place.
- D) Tighten the screw on the lower front of the cover.





Replacing System Modules

The procedure for replacing a module depends on your configuration:

If you have a	See
Standalone PARTNER ACS processor module configuration	"Replacing a Standalone PARTNER ACS Processor Module"
2-Slot carrier configuration	"Replacing Modules in a 2-Slot Carrier"
5-Slot carrier configuration	"Replacing Modules in a 5-Slot Carrier"

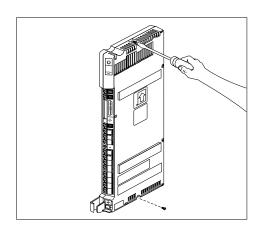
Replacing a Standalone PARTNER ACS Processor Module



A WARNING:

Disconnect the power cord from the power jack on the processor module. For an illustration showing the location of the power jack, see "Initializing the System" earlier in this guide.

- Check the slack in the wires. If there is not enough slack to remove the module without pulling the line and extension cords free, label and disconnect the wires before continuing.
- Remove the screws at the top and bottom of the module, and remove the module from the wall.
- Follow the instructions in "Wall-Mounting a Standalone" PARTNER ACS Processor Module" and "Inserting Batteries in the PARTNER ACS Processor Module" earlier in this guide.
- Connect the line and extension cords one at a time, making sure to place the correct cords into their corresponding jacks on the new module. (See "Connecting Lines and Extensions" earlier in this guide.)
- 5 Reconnect the power cord.



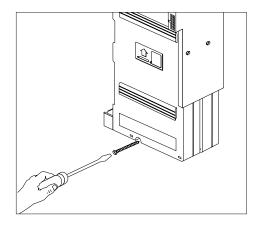
Replacing Modules in a 2-Slot Carrier



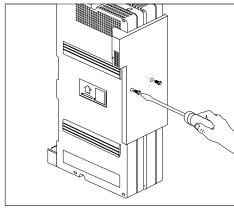
WARNING:

Before starting, verify that you have batteries installed in the PARTNER ACS processor module, and then disconnect the power cord from the power jack on the carrier. For an illustration showing the location of the power jack, see I"Initializing the System" earlier in this guide.

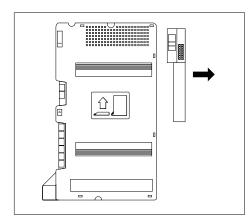
- 1 Check the slack in the wires. If there is not enough slack to remove the modules without pulling the line and extension cords free, label and disconnect the wires before continuing.
- 2 Remove the long screw at the bottom of the modules.



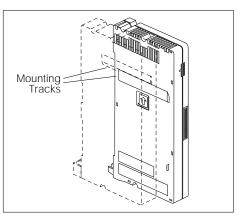
Remove the screws that attach the carrier to the modules.



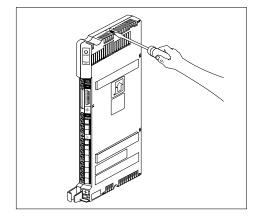
4 Pull the carrier to the right to remove it.



- 5 A) Slide the top module to the left to disengage its interlocking mounting tracks from the PARTNER ACS processor module.
 - B) If you are replacing the PARTNER ACS processor module, skip to Step 7. If you are replacing the top module, continue with Step 6.
- Mount the new module by following Steps 3 through 8 in <u>"Wall-Mounting a 2-Slot Carrier and Modules"</u>, earlier in this guide, and then skip to Step 8 below.



- Remove the screw at the top of the PARTNER ACS processor module and remove the module from the wall.
 - B) Mount the new PARTNER ACS processor module by following the instructions in "Wall-Mounting a Standalone PARTNER ACS Processor Module" and "Inserting Batteries in the PARTNER ACS Processor Module" earlier in this guide.
 - Remount the top module by following Steps 1 and 3 through 9 in <u>"Wall-Mounting a 2-Slot</u> Carrier and Modules" earlier in this guide.



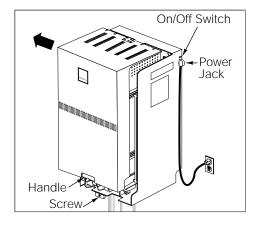
- 8 Connect the line and extension cords one at a time. making sure to place the correct cords into their corresponding jacks on the new module. (See "Connecting Lines and Extensions" earlier in this guide.)
- Reconnect the power cord.

Replacing Modules in a 5-Slot Carrier

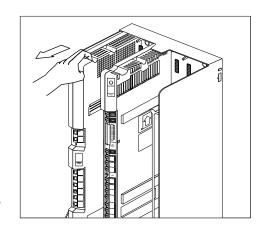
WARNING:

Before starting, move the On/Off switch to "off", and unplug the power cord. Verify that you have batteries installed in the PARTNER ACS processor module, and then disconnect the power cord from the wall jack on the carrier.

- Loosen the screw on the lower front of the carrier s cover. Then place one hand on the handle on the lower front and place your other hand on the top of the cover.
 - Gently pull the cover up and away from the B) carrier be careful not to break the tabs that attach the cover to the carrier.



- Before installing a module, make sure the clear, plastic protector has been removed from the connector area on the rear of the module. To remove the protector, grasp the tabs on the ends of the protector and lift.
- A) Check the slack in the wires. If there is not enough slack to remove the module without pulling the line and extension cords free, label and disconnect the wires before continuing with Step 3B.
 - B) Place one hand on top of the module. With your other hand, grip the plastic bracket on the bottom front of the module, and pull out the old module.
 - C) If you are replacing a module with one of a different type, make sure that all 400 (or 200) modules are installed to the right of all 206 or 308EC modules and that the PARTNER ACS processor module remains in the center slot.
 - D) To insert the replacement, push slowly but firmly in the center of the module until the module locks into place, and is attached to the rear of the carrier.



Tab

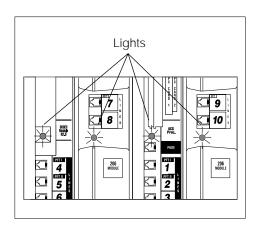
Tab



Do not force the module. If the module does not insert easily, remove it, clear any obstruction, and reinsert it.

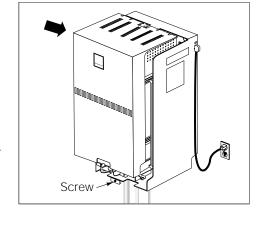
- A) Connect the line and extension cords one at a time, making sure to place the correct cords into their corresponding jacks on the new module.

 (See "Connecting Lines and Extensions" earlier in this guide.)
 - B) Reconnect the power cord.
 - Move the carrier s On/Off switch to the "On" position ("—").
- 5 Check that all green lights on the fronts of the modules are lit:
 - A) If a single light is out, power down the control unit, reseat the module, then power up the control unit.
 - B) If multiple lights are out, power down the control unit, reseat the leftmost module that has a light out, then power up the control unit.
 - C) If the lights are still out, call for support as instructed on the inside front cover of this guide.



- 6
- Make sure all modules are seated properly. The cover will not fit if the modules are not seated properly.
- B) To replace the cover, grasp it by its upper edges and hold it squarely over the control unit.
- C) Place the cover over the modules and make sure it fits firmly in place.
- Tighten the screw on the lower front of the cover.

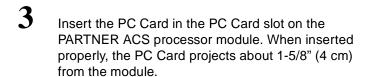
Inserting or Removing a PC Card

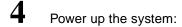


A CAUTION:

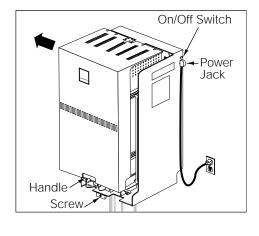
Before starting, verify that you have batteries installed in the PARTNER ACS processor module.

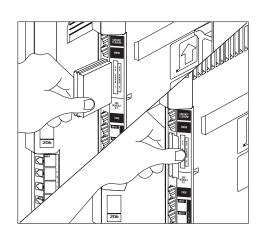
- If you have an existing 5-Slot carrier, move the carrier s On/Off switch to the "Off" position ("O"). For all types of installations, disconnect the power cord from the power jack. For illustrations showing the location of the power jack on the various configurations, see "Initializing the System" earlier in this guide.
- If you do not have a 5-slot carrier, go to Step 3. If you have a 5-slot carrier:
 - Loosen the screw on the lower front of the cover. Then place one hand on the handle on the bottom front of the cover and place your other hand on the top of the cover.
 - Gently pull the cover up and away from the carrier be careful not to break the tabs that attach the cover to the carrier.





- A) Reconnect the power cord.
- B) If you have a 5-Slot carrier, move the carrier s On/Off switch to the "On" position.





- 5 Check that all green lights on the fronts of the modules are lit:
 - A) If a single light is out, power down the control unit, reseat the module, then power up the control unit.
 - B) If multiple lights are out, power down the control unit, reseat the leftmost module that has a light out, then power up the control unit.
 - C) If the lights are still out, call for support as instructed on the inside front cover of this guide.
- A) If you have a 2-Slot carrier or a standalone configuration, you are finished with this procedure. If you have a 5-Slot carrier, continue with Step 5B.
 - B) Make sure all modules are seated properly. The cover will not fit if the modules are not seated properly.
 - C) To replace the cover, grasp it by its upper edges and hold it squarely over the control unit.
 - D) Place the cover over the modules and make sure it fits firmly in place.
 - E) Tighten the screw on the lower front of the cover.

