

## TABLE OF CONTENTS

Chapter	Title	Page
1	<b>INTRODUCTION</b>	1-1
	1. General	1-1
	1.02 Scope	1-1
	1.03 Organization	1-1
	1.04 Reference	1-1
	2. System Overview	1-1
	2.01 General	1-1
2	<b>PRIOR TO INSTALLATION</b>	2-1
	1. Site Preparation	2-1
	2. Unpacking and Inventory	2-1
	2.01 Unpacking	2-1
	2.02 Precautions	2-1
	2.03 Inventory	2-1
	3. Tools and Test Equipment	2-2
	3.01 Tools	2-2
	3.02 Test Equipment	2-2
3	<b>HARDWARE INSTALLATION</b>	3-1
	1. Introduction	3-1
	1.01 General	3-1
	1.03 Chapter Organization	3-1
	1.04 Disclaimer	3-2
	2. Installation Map	3-2
	3. Equipment Placement	3-3
	3.01 General	3-3
	3.03 Printers	3-3
	4. Card Strapping	3-3
	4.01 General	3-3
	4.02 IBM PC-AT System Board	3-4
	4.03 AST Advantage Premium Card	3-4
	4.04 AST Async Cluster Adapter Card	3-4
	4.05 Brooktrout Voice Response Cards	3-7

## TABLE OF CONTENTS (Cont'd)

Chapter	Title	Page
3	5. Installation Procedures	3-7
	5.01 Disk Drives	3-7
	5.02 IBM Monochrome Display <sup>etc.</sup> and Printer Adapter Card	3-7
	5.03 Plug-In Card Installation Procedure	3-7
	6. Report Printer Connection	3-10
	7. Backup Printer Connection	3-12
	8. Processor Interface Link (PIL) from PBX to PC	3-13
	9. SMDR Connection from PBX to PC	3-16
	10. PMS Interface Link	3-21
	11. HOBIC Link Connection	3-23
	12. Connection of PBX to PC Voice Lines	3-24
4	<b>SOFTWARE INSTALLATION</b>	4-1
	1. General	4-1
	2. Start Concurrent DOS (CDOS)	4-1
	3. Copy the Software Disks	4-2
	4. Format the PC Hard Disk	4-3
	5. Install CDOS and the Hard Disk Loader	4-5
	6. Install the Lodging II Application Software	4-6
	7. Install the CCMI Rate Tables	4-6
	8. Set the Lodging II Communication Ports	4-7
	9. Customer Database Entry	4-9
5	<b>INSTALLATION TESTS</b>	5-1
	1. General	5-1
	1.02 Preparation	5-1
	1.03 Sequence	5-1
	2. PBX to PC, Report Printer, PIL, HOBIC, and PMS Connections	5-1
	3. Call Record Buffer	5-2
	4. Voice Lines	5-3

## TABLE OF CONTENTS (Cont'd)

### LIST OF TABLES

Table	Title	Page
4-1	Serial Port Configuration Parameters	1-1

### LIST OF ILLUSTRATIONS

Figure	Title	Page
1-1	Lodging II System	1-1
3-1	IBM PC-AT System Board Switch and Jumper Settings	3-4
3-2	AST Advantage Premium Card Switch and Jumper Settings	3-5
3-3	AST Async Cluster Adapter Card - One Switch	3-6
3-4	AST Async Cluster Adapter Card - Three Switches	3-6
3-5	First Brooktrout Voice Response Card	3-8
3-6	Second Brooktrout Voice Response Card	3-9
3-7	Local Report Printer Connection	3-10
3-8	Remote Report Printer Connection	3-11
3-9	Local Backup Printer Connection	3-12
3-10	Remote Report Printer Connection	3-13
3-11	Local PIL Connection	3-14
3-12	Remote PIL Connection	3-15
3-13	Local PBX to PC SMDR Link with Call Record Buffer	3-17
3-14	Remote PBX to PC SMDR Link with Call Record Buffer	3-18
3-15	Local PBX to PC SMDR Link without Call Record Buffer	3-19
3-16	Remote PBX to PC SMDR Link without Call Record Buffer	3-20
3-17	Local PC to PMS Interface Connection	3-22
3-18	Remote PC to PMS Interface Connection	3-22
3-19	Local HOBIC Connection	3-23
3-20	Remote HOBIC Connection	3-24



## CHAPTER 1 INTRODUCTION

### 1. GENERAL

**1.01** This manual describes how to install the **focus** Lodging II Application Processor (AP). It should be read before installation so that the procedures are familiar. These procedures should be performed in the order in which they are outlined to assure proper installation of the AP.

**1.02 Scope.** This manual deals only with actual installation procedures. Operational information is included only when necessary to complete an installation step.

**1.03 Organization.** The following is a brief outline of what is contained in each chapter.

- Chapter 2, **PRIOR TO INSTALLATION**, explains what tools must be on-hand and discusses hardware unpacking and inventory.
- Chapter 3, **HARDWARE INSTALLATION**, discusses how to install the plug-in cards in the PC chassis. It then explains the connections from PBX to PC and PC to peripheral devices.
- Chapter 4, **SOFTWARE INSTALLATION**, describes the procedures involved in installing the Lodging II software. Step-by-step instructions guide you in installing Concurrent DOS, the Lodging II applications software, and the CCMI rate tables.
- Chapter 5, **INSTALLATION TESTS**, outlines the procedures for starting the Lodging II system and checking to see if it is operating properly.

**1.04 References.** Other documents provide additional information about the Lodging II system and should be on hand during installation.

**1.05** The following documents describe equipment supplied by Fujitsu Business Communications and are necessary for proper installation of the Application Processor.

- **focus 960** Customer System Specifications, Section 105-214-002
- **focus 960** Maintenance and Administration Commands Manual, Section 105-090-000
- **focus 960** Installation/Maintenance Manual, Section 105-056-000
- Lodging II Customer System Specifications, Section 115-202-000
- Lodging II User Guide, Section 115-043-000
- Lodging II System Administrator Manual, Section 115-052-000
- Lodging II Site Planning Guide, Section 115-068-000
- Lodging II Troubleshooting Guide, Section 115-067-000

**1.06** The following manufacturer documentation should be available.

- PC Installation and User Guide
- User guide for selected printer(s)
- User guide for selected call record buffer
- User guide for Property Management System (PMS)

### 2. SYSTEM OVERVIEW

**2.01 General.** The Lodging II AP provides an interface between the **focus 960** PBX and a Property Management System (PMS).

2.02 The AP includes call costing and pricing information as well as a link between PBX and PMS for various guest room information.

2.03 Figure 1-1 shows a simplified diagram of a Lodging II installation with its connections to the focus 960 PBX, PMS, and the various AP peripheral devices. The major system components are:

- Application Processor (installed in a PC)
- Call Record Buffer (optional)
- Report Printer
- Backup Printer

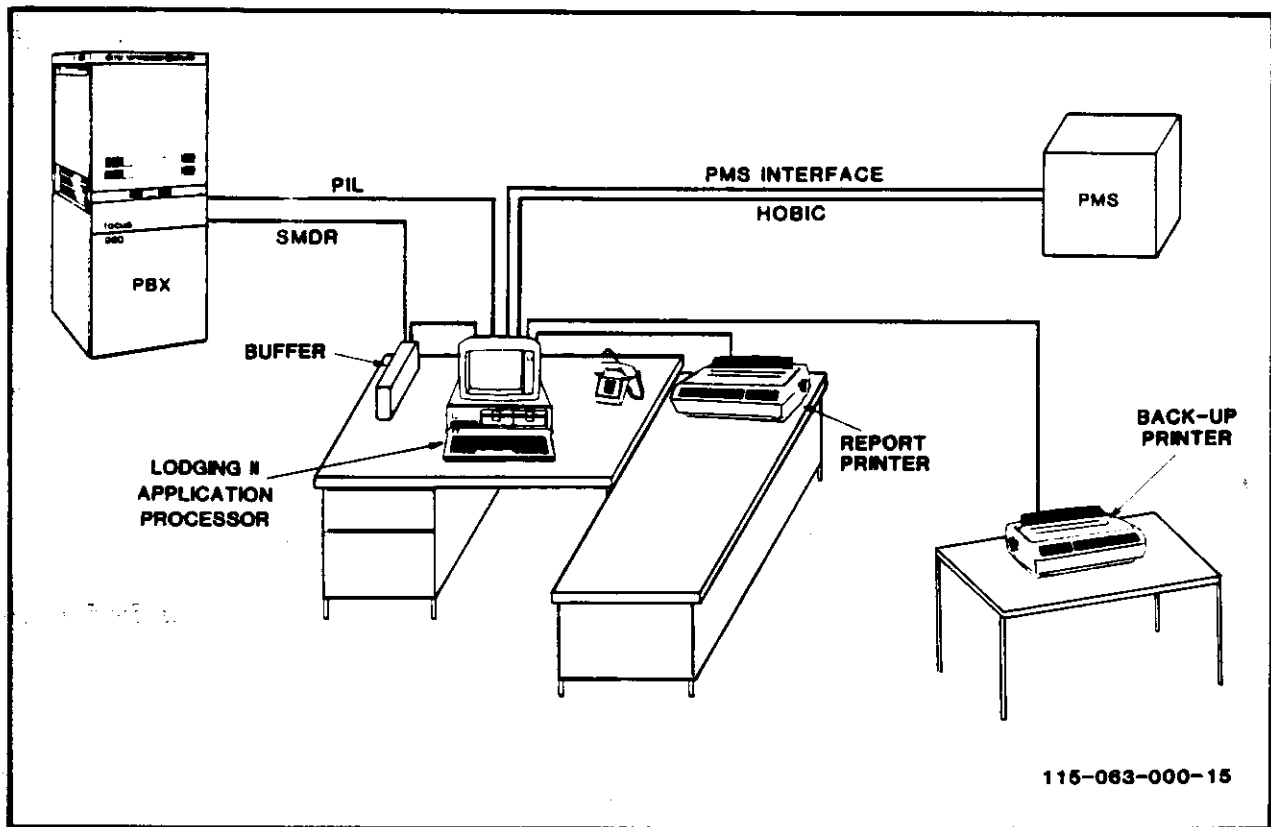


Figure 1-1. Lodging II System Overview

## CHAPTER 2 PRIOR TO INSTALLATION

### 1. SITE PREPARATION

1.01 Before installing the Lodging II system, the following should be completed:

1. The site should be selected and prepared. The preparation will include:

- A suitable desk in place for the PC.
- A stand or table in place for both the report and backup printers.
- Electrical outlets available or installed for all the equipment.

2. Refer to the Lodging II Site Planning Guide for detailed instructions on the various requirements for an adequate installation site.

### 2. UNPACKING AND INVENTORY

2.01 **Unpacking.** It is suggested that the entire system be unpacked, checked for completeness and tested prior to actual installation on-site.

2.02 **Precautions.** When unpacking the Lodging II equipment, certain procedures and precautions should be taken. These include:

- Remove items that generate static from your work area. These include styrofoam, cellophane, etc.
- Spray the area with an anti-static spray.
- Ground yourself before handling any equipment.
- Remove hardware carefully from its packaging. Never puncture or tear containers. Use a pair of scissors or a knife to cut where needed.
- Visually inspect all equipment for obvious faults.
- Hold plug-in cards by non-conductor edges only. Do not touch connectors or components.
- Keep static-sensitive components in their anti-static bags until you are ready to install them in the computer.
- Keep disks in their protective envelopes whenever they are not being used. Never touch the recording surfaces.
- Do not stack plug-in cards on top of each other. This can damage the components on the cards.

2.03 **Inventory.** After the Lodging II equipment is unpacked and inspected, inventory should be taken. To do this, check the items received against the items ordered. Use the Lodging II Site Planning Guide to verify what should have been ordered for the various connections.

### **3. TOOLS AND TEST EQUIPMENT**

**3.01 Tools.** When using standard cable kits and equipment supplied by Fujitsu Business Communications, no special tools are needed other than those normally carried by the craftsman.

**3.02 Test Equipment.** There is very little need for any test equipment during the installation. Should it become necessary to make any tests, only the following items will be needed:

- Digital Multimeter
- RS-232C Break-Out Box



## CHAPTER 3 HARDWARE INSTALLATION

### 1. INTRODUCTION

**1.01 General.** This chapter provides step-by-step instructions for installing the Lodging II AP. Although the actual installation sequence is not critical and items are sometimes installed concurrently, it is suggested that the sequence provided herein ensures everything is correctly installed and offers the best chance for a trouble-free installation.

**1.02** The following sequence should be followed:

1. Position the AP and call record buffer (if used).
2. Position the report printer.
3. Position the backup printer.
4. Configure the PC with the appropriate cards.
5. Connect the report printer.
6. Connect the backup printer.
7. Make the PBX to PC connections.
8. Make the PC to PMS connections.
9. Connect the voice lines from PBX to PC.

**1.03 Chapter Organization.** This chapter is organized as follows.

- Paragraph 2 provides the guidelines to step you through your installation.
- Paragraph 3 discusses placing the equipment in position.
- Paragraph 4 gives card strapping instructions.
- Paragraph 5 gives PC card installation instructions.
- Paragraph 6 provides step-by-step procedures for connecting the report printer.
- Paragraph 7 provides step-by-step procedures for connecting the backup printer.
- Paragraph 8 provides step-by-step procedures for connecting the Processor Interface Link (PIL) from PBX to PC.
- Paragraph 9 provides step-by-step procedures for connecting the SMDR link from PBX to PC.
- Paragraph 10 provides step-by-step procedures for connecting the PMS interface link from PC to PMS.
- Paragraph 11 provides step-by-step procedures for connecting the HOBIC link from PC to PMS.
- Paragraph 12 provides installation information for the voice lines from PBX to PC.

**1.04 Disclaimer.** The standard PC used for this AP is the IBM PC-AT\*. These instructions assume this system. If other types of PC are qualified and shipped for the AP, separate errata sheets will accompany the equipment explaining any differences in the procedures.

## 2. INSTALLATION MAP

2.01 The following steps should be done:

1. Place the PC in position. See paragraph 3.01 for details.
2. Place the report printer in position. See paragraph 3.03 for details.
3. Place the backup printer in position. See paragraph 3.03 for details.
4. Set the jumpers and switches on the cards. See paragraph 4 for details.
5. Configure the PC chassis as described in paragraph 5.
6. Connect the report printer according to the instructions in paragraph 6.
7. Connect the backup printer according to the instructions in paragraph 7.
8. To connect the Processor Interface Link (PIL) from PBX to PC, use one of the following paragraphs.
  - a. If you have the local cable kit, see paragraph 8.01.
  - b. If you have the remote cable kit, see paragraph 8.02.
9. To connect the SMDR link from the PBX to PC, use one of the following paragraphs.
  - a. If you have the local cable kit and you have a call record buffer, see paragraph 9.01.
  - b. If you have the remote cable kit and you have a call record buffer, see paragraph 9.02.
  - c. If you have the local cable kit and you do not have a call record buffer, see paragraph 9.03.
  - d. If you have the remote cable kit and you do not have a call record buffer, see paragraph 9.04.
10. To connect the PMS interface link from the PC, use one of the following paragraphs.
  - a. If you have the local cable kit, see paragraph 10.01.
  - b. If you have the remote cable kit, see paragraph 10.02.

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\* IBM PC-AT is a registered trademark of the International Business Machines Corporation

11. To connect the HOBIC link from the PC to the PMS, use one of the following paragraphs.
  - a. If you have a local cable kit, see paragraph 11.01.
  - b. If you have a remote cable kit, see paragraph 11.02.
12. To connect the voice lines from the PBX to the PC, see paragraph 12.

### 3. EQUIPMENT PLACEMENT

**3.01 General.** The Lodging II Site Planning Guide should be used to select the location for the AP.

1. Ensure the site is clean and uncluttered.
2. Installation requires the PC to be disassembled so sufficient space should be available to work freely.
3. AC outlets should be nearby. Plan on the following:
  - One outlet for the PC.
  - One outlet for the call record buffer (if used).
  - One outlet for the report printer.
  - One outlet for the backup printer.
  - One outlet for each power cube which may be used.

**3.02** If a call record buffer will be used, it should be positioned and configured at this time. To configure the call record buffer, refer to the operator's manual. Set the switches on the bottom of the call record buffer as follows:

- Baud Rate - should match the **focus 960** PBX transmission rate
- Handshaking (Hardware Input/Output Protocol) - xon/xoff
- Word Length - 8 bit data
- Stop Bits - 1 stop bit
- Parity - Odd

**3.03 Printers.** Place the report and backup printers where they will be used. Refer to the printer manual for set up and installation procedures.

### 4. CARD STRAPPING

**4.01 General.** In order to configure the Lodging II AP, certain switches and jumpers must be set on the plug-in cards and the system board. The following need to be configured:

1. IBM PC-AT System Board.

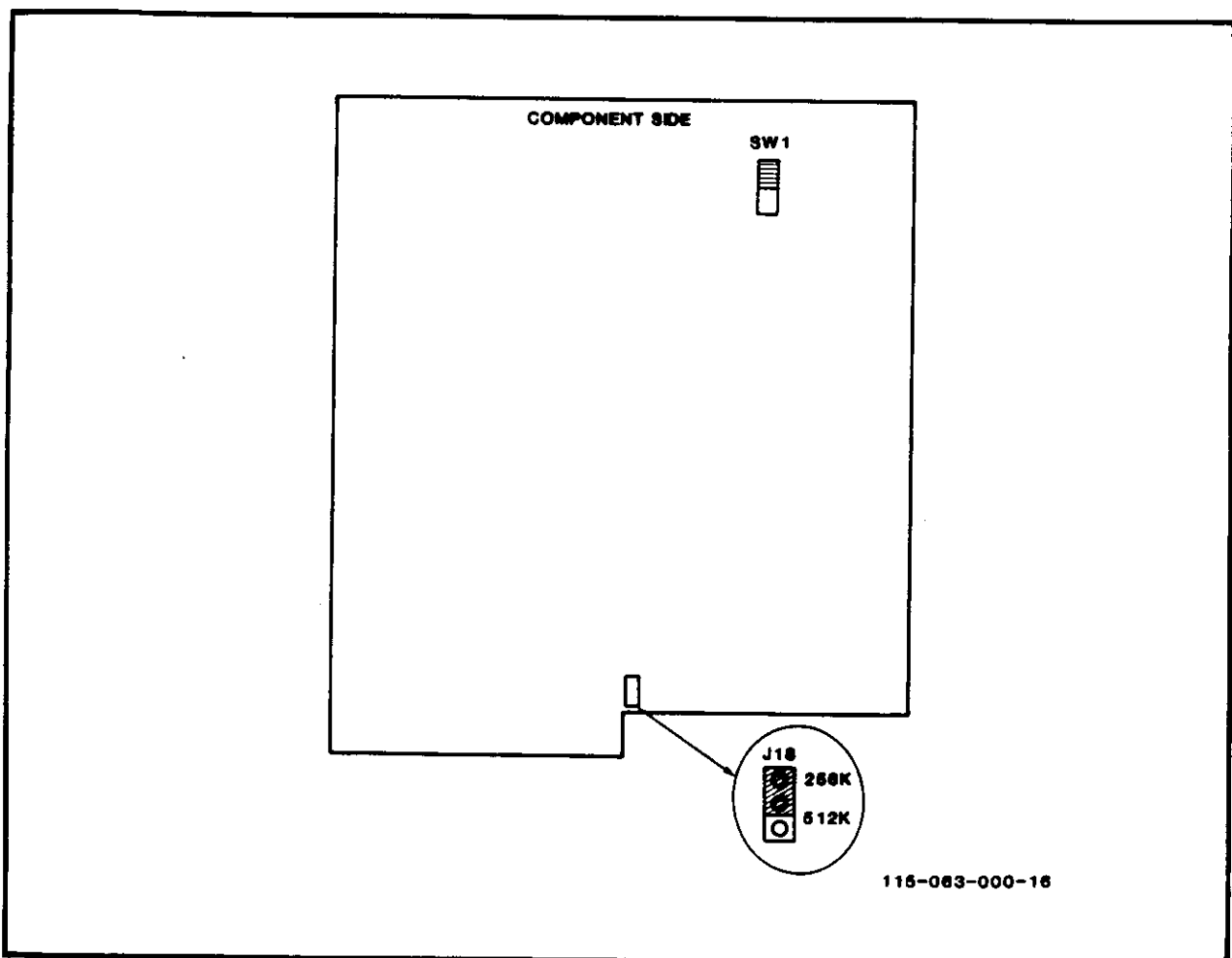
2. AST Advantage Premium Card.
3. AST Async Cluster Adapter Card.
4. Brooktrout Voice Response Cards.

**4.02 IBM PC-AT System Board.** The IBM PC-AT must be configured for an internal memory size of 256K RAM. To do this, set jumper J18 on the system board as shown in Figure 3-1. Switch SW1 should be toward the rear of the PC.

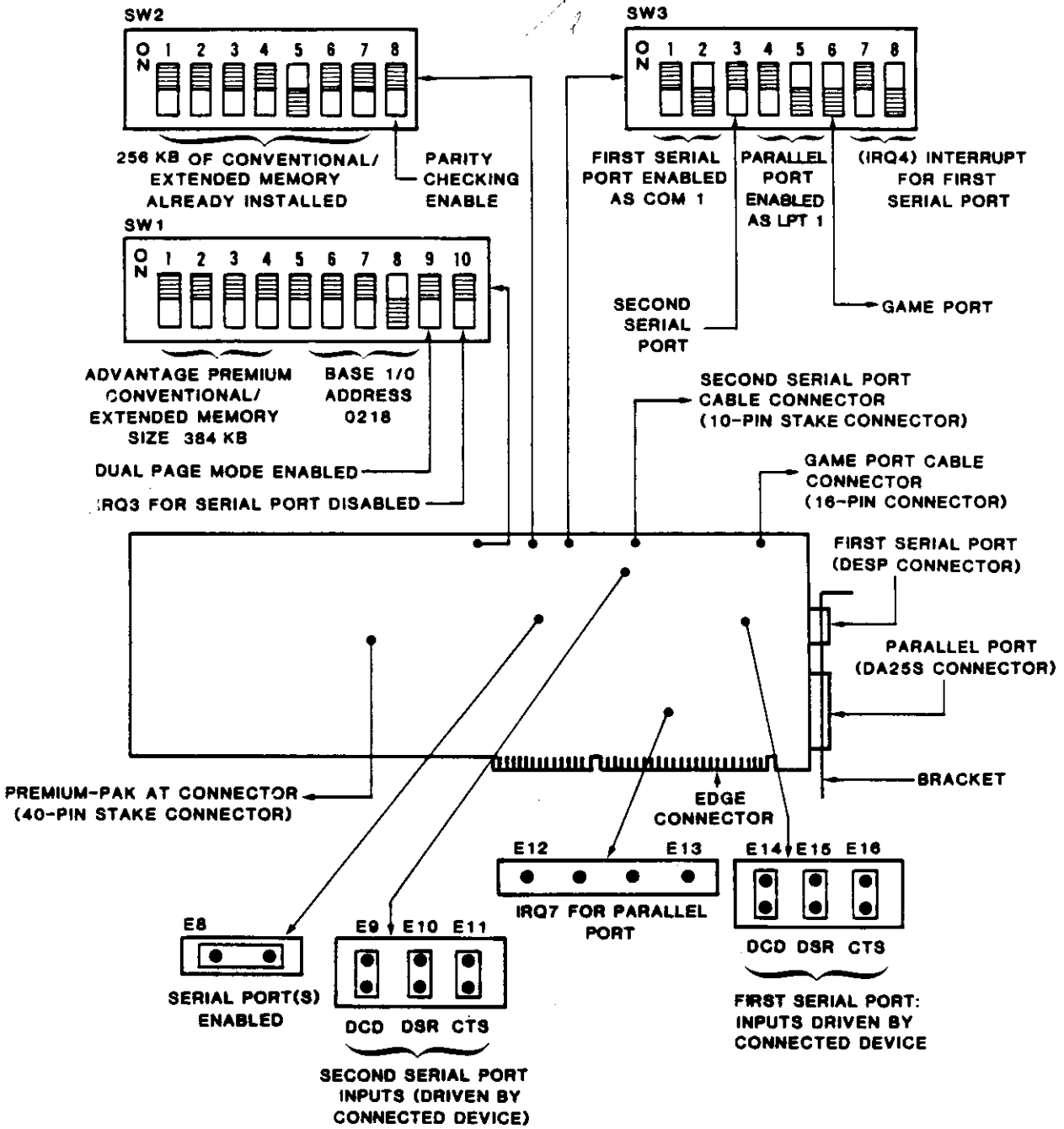
**4.03 AST Advantage Premium Card.** To configure the serial ports and memory size for the Lodging II AP, switches SW1 through SW3 and jumpers E8 through E16 must be set on the AST Advantage Premium card. Figure 3-2 shows the location of these switches and jumpers and their correct settings.

**4.04 AST Async Cluster Adapter Card.** There are two versions of this card.

- If the card you have has one switch, Figure 3-3 shows the proper settings.
- If the card you have has three switches, Figure 3-4 shows the proper settings.



**Figure 3-1. IBM PC-AT System Board Switch and Jumper Settings**



115-063-000-17

Figure 3-2. AST Advantage Premium Card Switch and Jumper Settings

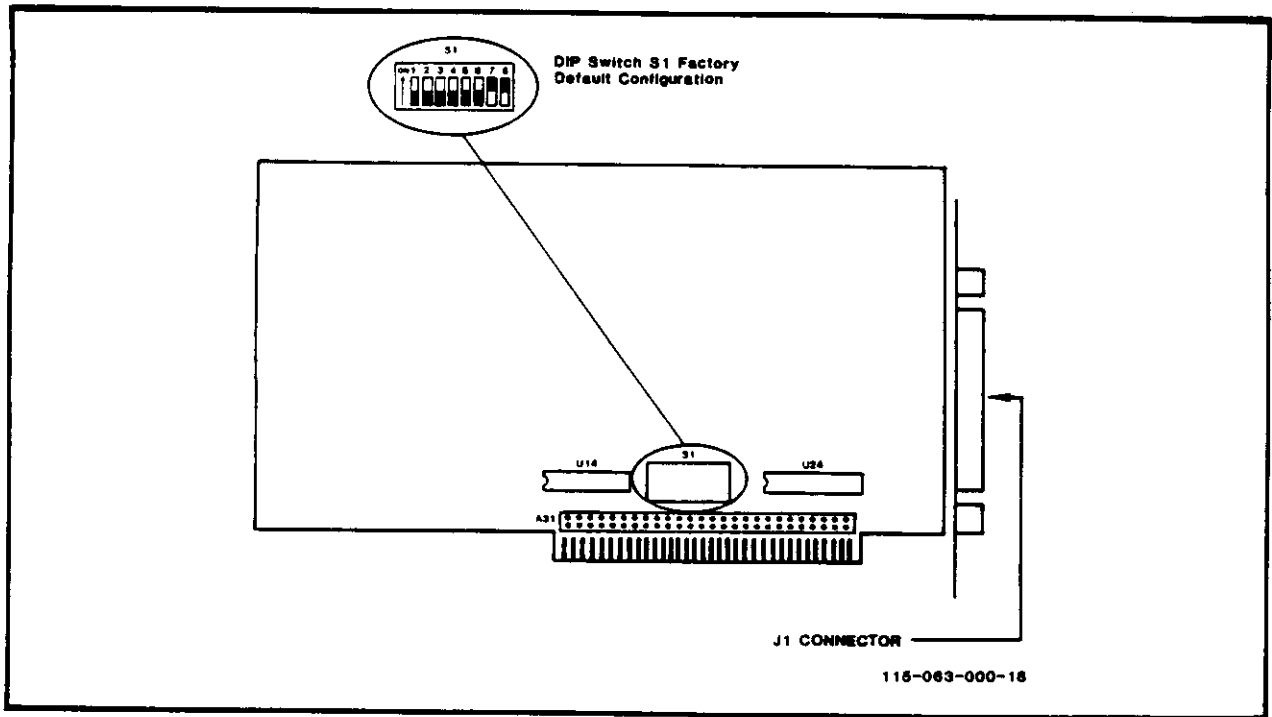


Figure 3-3. AST Async Cluster Adapter Card - One Switch

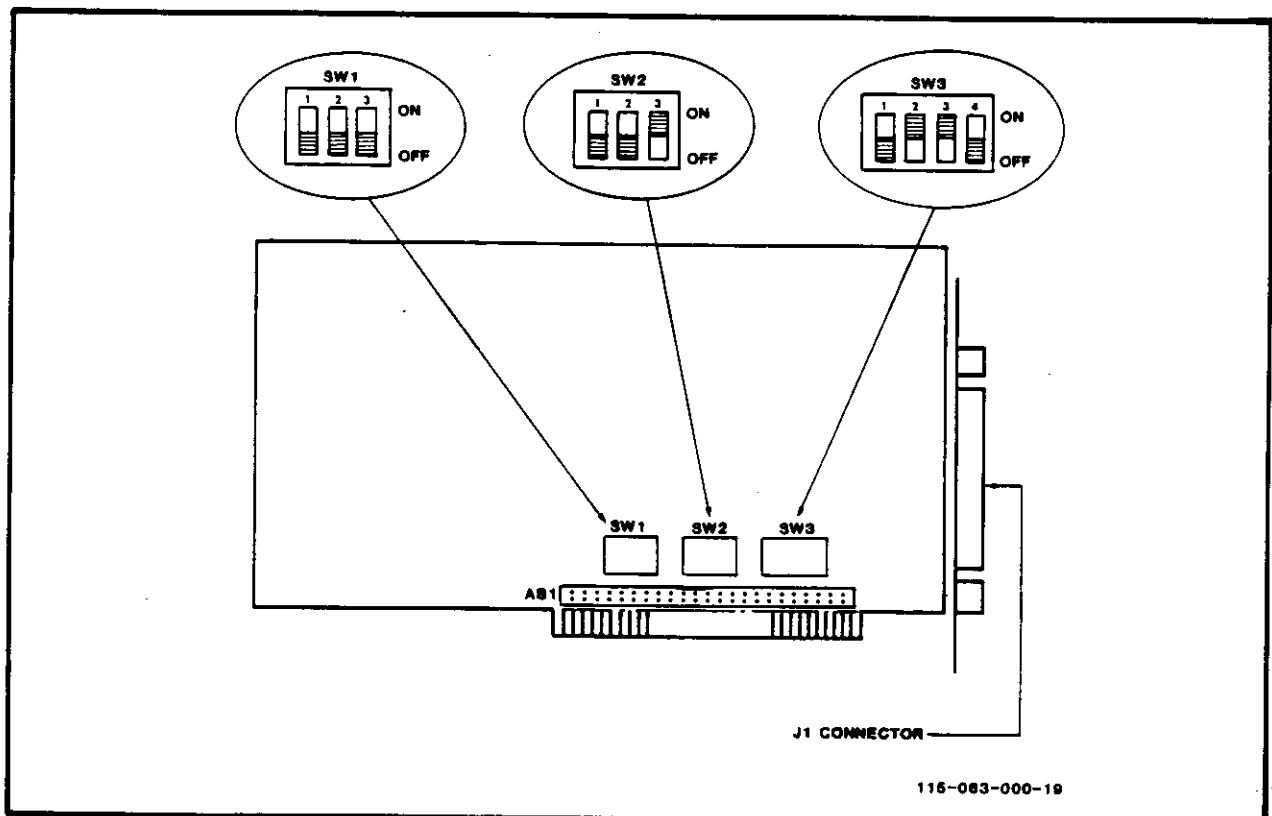


Figure 3-4. AST Async Cluster Adapter Card - Three Switches

**4.05 Brooktrout Voice Response Cards.** The two Brooktrout cards have switches and jumpers which must be set. These are optional cards but, if used, there must be two of them.

- For the first card installed, see Figure 3-5 for the proper settings. After setting the switches and jumpers; label the card as #1.
- For the second card installed, see Figure 3-6 for the proper settings. After setting the switches and jumpers, label the card as #2.

## 5. INSTALLATION PROCEDURES

**5.01 Disk Drives.** The IBM PC-AT is usually shipped from the vendor with the floppy and fixed drives installed. If these drives are not installed, follow the instructions in the IBM PC-AT Installation and Setup Manual.

**5.02 IBM Monochrome Display and Printer Adapter Card.** The IBM PC-AT is usually shipped from the vendor with the IBM Monochrome Display and Adapter card installed. If it is not installed, follow the instructions in the IBM PC-AT Installation and Setup Manual.

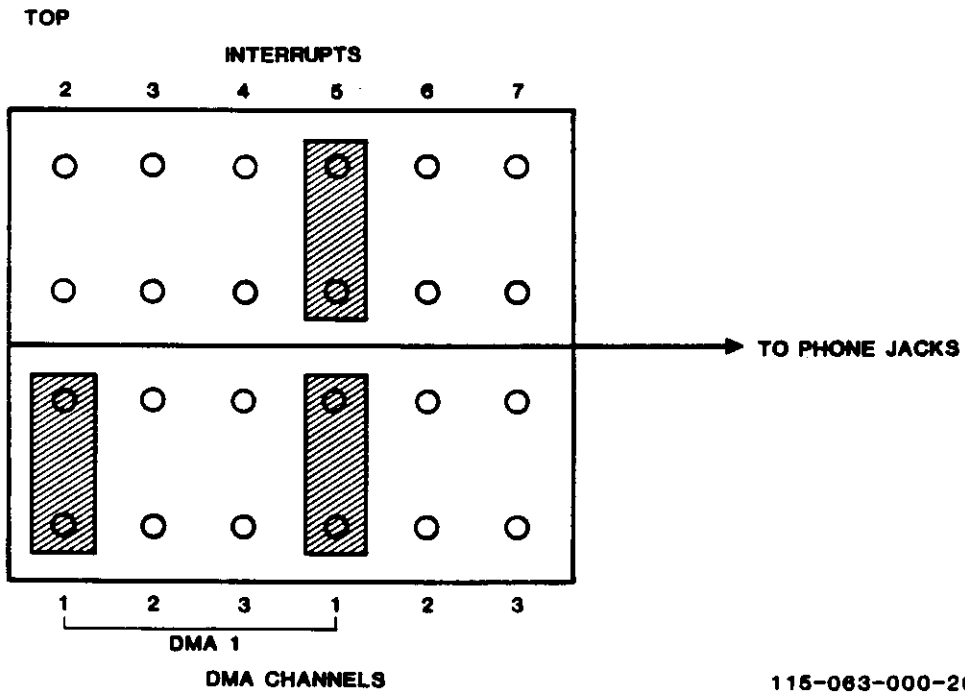
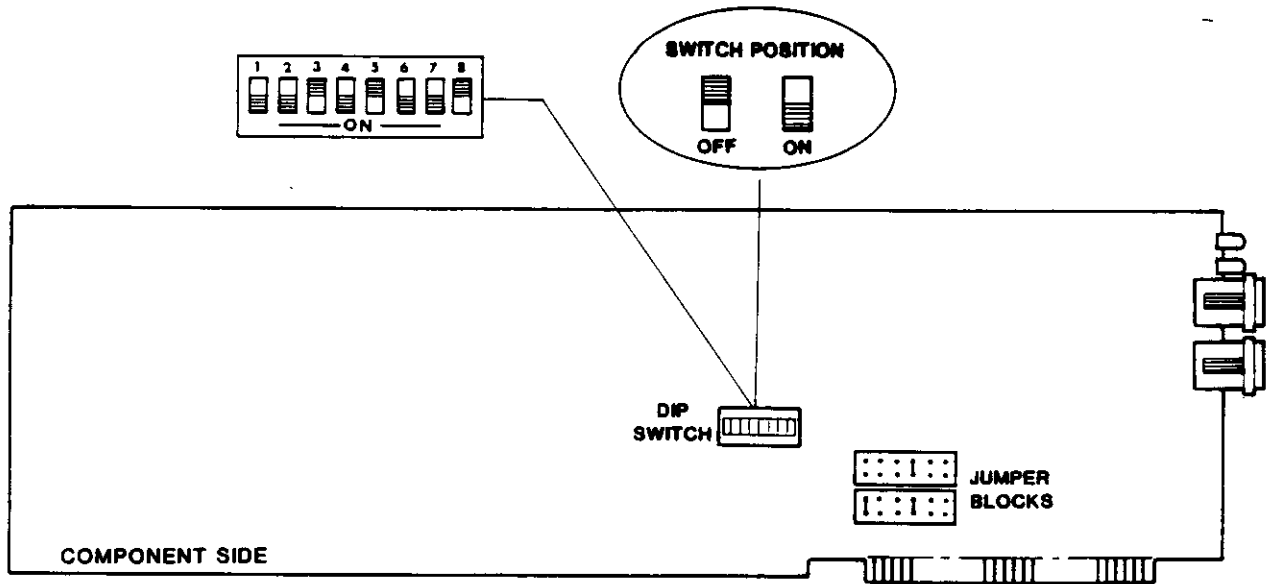
**NOTE:** Lodging II will not function if a color monitor and color monitor card are used. Use only a monochrome monitor and card. Additionally, do not use a graphics card.

**5.03 Plug-In Card Installation Procedure.** The two AST cards and the two Brooktrout Voice cards must be inserted into the PC chassis. The following lists the general procedure for inserting cards into the expansion slots:

**NOTE:** If the IBM PC-AT comes with a mini I/O board, it should be removed prior to installing the AST and Brooktrout cards.

1. Remove the cover from the PC following the instructions in the PC installation and setup manual.
2. Remove the screw that holds the expansion slot cover onto the back panel. Remove the expansion slot cover and save the screw for securing the plug-in card after it has been inserted.
3. Hold the plug-in card by the top and line it up in the slot by positioning it in the plastic support bracket on the front panel.
4. Keep the card level and ensure all ribbon cables are out of the way before lowering the card into the slot.
5. Lower the card into the expansion slot until its gold edge connectors are aligned with the system board expansion slot connectors.
6. Press the card straight down, using evenly-distributed pressure, until it fits firmly into the expansion slot.
7. Install the expansion slot cover screw that was removed in Step 2.

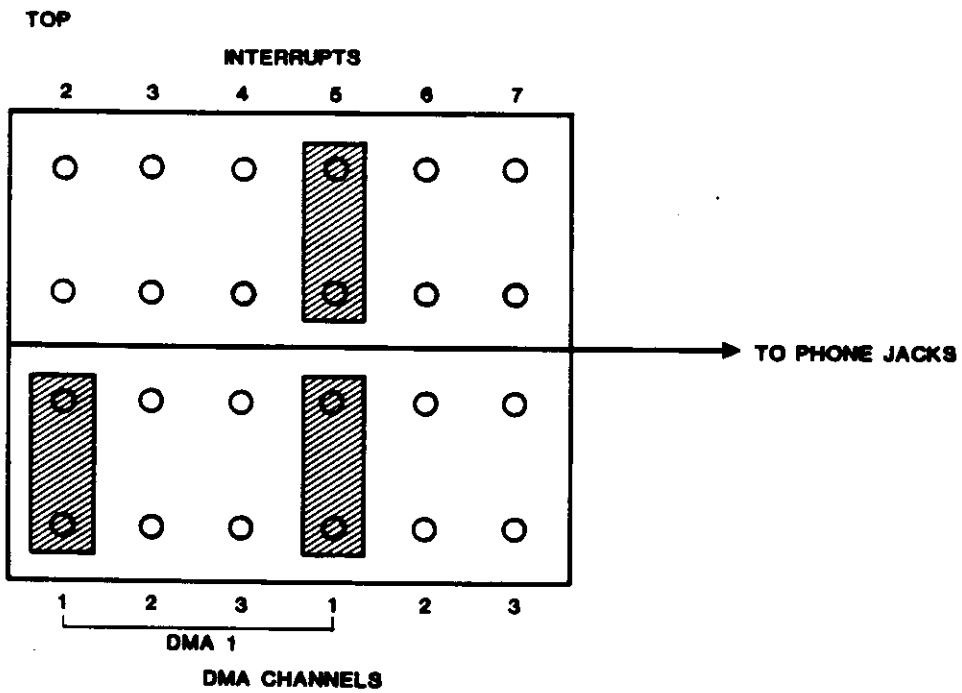
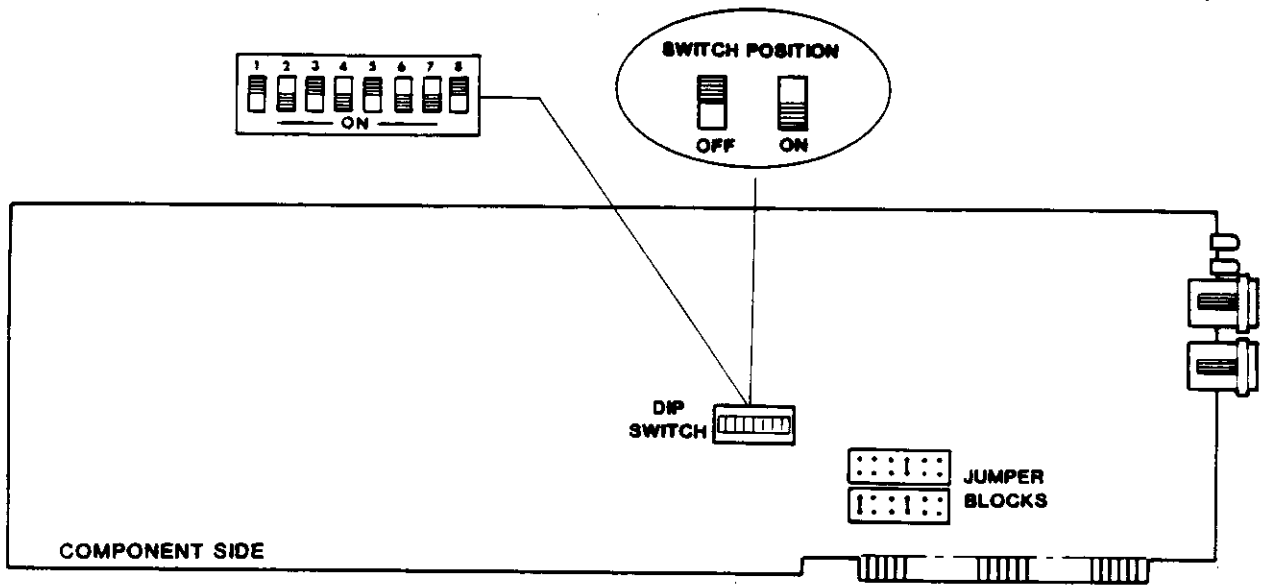
**5.04** Using the procedures given in paragraph 5.03, above, install the AST Advantage Premium card in expansion slot 2.



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Figure 3-5. First Brooktrout Voice Response Card





115-063-000-21

Figure 3-6. Second Brooktrout Voice Response Card

- 5.05 Install the second serial port in expansion slot 3.
- 5.06 Install the first Brooktrout card in expansion slot 5.
- 5.07 Install the second Brooktrout card in expansion slot 6.
- 5.08 Install the Async Cluster Adapter card in expansion slot 7.
- 5.09 Check all the cards to ensure they are seated properly and the expansion slot cover screws are tight. Replace the cover of the PC following the instructions in the installation and setup manual.

## 6. REPORT PRINTER CONNECTION

6.01 If you have a local cable kit, refer to Figure 3-7 and follow the steps below to connect it.

**NOTE:** The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.

1. Plug the 25-pin male connector on the Type 3 cable into the input port of the printer.
2. Plug the 25-pin female connector on the Type 3 cable into the 25-pin connector labeled J4 on the Async Cluster Adapter cable.
3. Plug the 37-pin male connector on the Async Cluster Adapter cable into the 37-pin connector on the Async Cluster Adapter card at the rear of the PC.
4. This completes the connection of a local report printer.

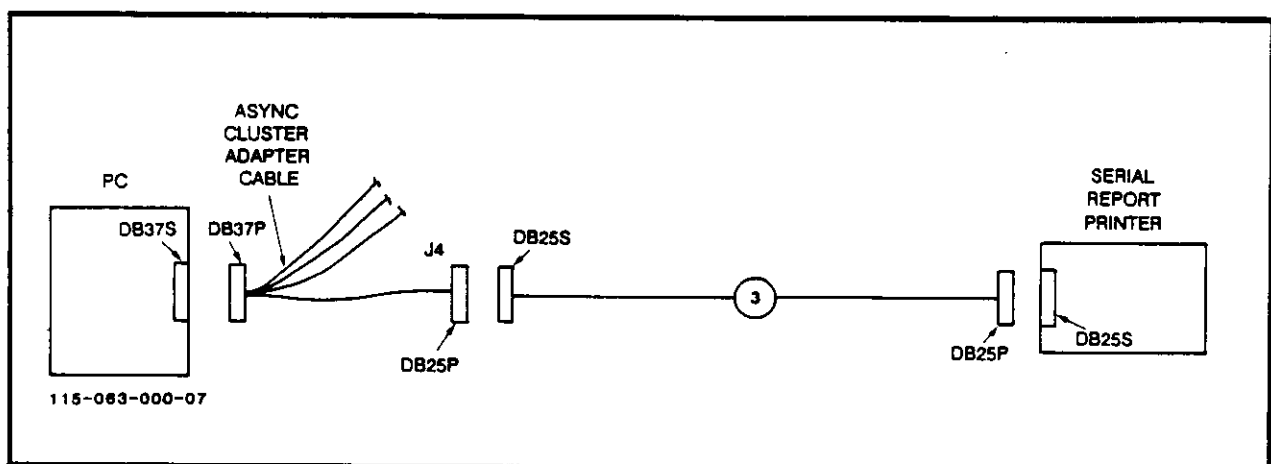


Figure 3-7. Local Report Printer Connection

6.02 If you have a remote cable kit, refer to Figure 3-8 and use the following procedures.

**NOTES:**

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
2. For these procedures, you should have on hand, kits DLB, P/N 301858-01 and PRS, P/N 301862-01.

**At the Printer:**

1. Plug the 25-pin male connector on the line driver into the input port of the printer.

**At the PC:**

1. Plug the 37-pin connector on the Async Cluster Adapter cable into the 37-pin connector on the Async Cluster Adapter card at the rear of the PC (if not already done).
2. Plug the 25-pin male connector labeled J4 on the Async Cluster Adapter cable into the 25-pin female connector on the line driver.
3. Connect the two line drivers with twisted pair cable in accordance with the installation instructions in the line driver manual.
4. This completes the connection of a remote report printer.

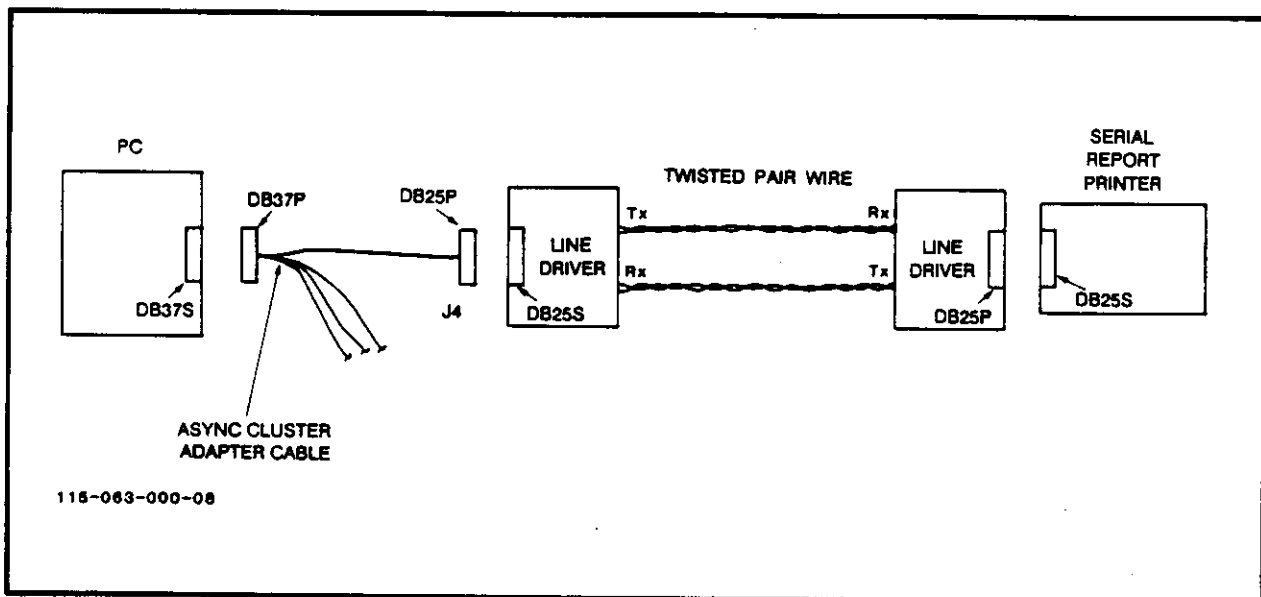


Figure 3-8. Remote Report Printer Connection

## 7. BACKUP PRINTER CONNECTION

7.01 If you have a local cable kit, refer to Figure 3-9 and follow the steps below to connect it.

### NOTES:

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
  2. For these procedures, you should have on hand, kits SRP, P/N 301868-01 or HVS, P/N 301950-02.
1. Plug the 25-pin male connector on the Type 3 cable into the input port of the printer.
  2. Plug the 25-pin female connector on the type 3 cable into the 25-pin male connector labeled J2 on the Async Cluster Adapter cable.
  3. Plug the 37-pin male connector on the Async Cluster Adapter cable into the 37-pin connector on the Async Cluster Adapter card at the rear of the PC (if not already done).
  4. This completes the connection of a local backup printer.

7.02 If you have a remote cable kit, refer to Figure 3-10 and follow the steps below to connect it.

### NOTES:

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
2. For these procedures, you should have on hand kits SRP, P/N 301868-01 (or HVS, P/N 301950-02), DLB, P/N 301858-01, and PRS, P/N 301862-01.

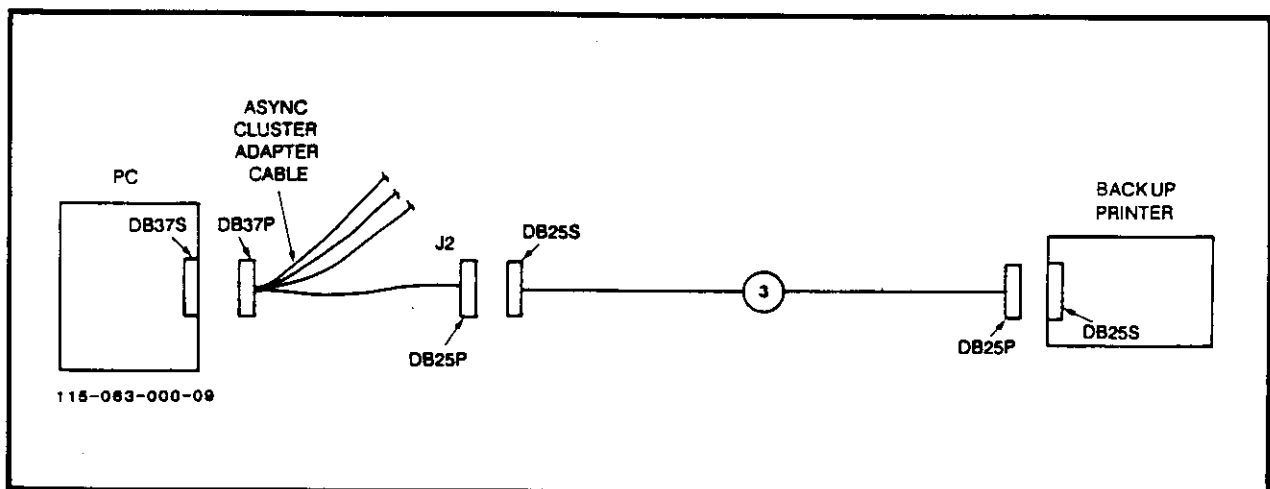


Figure 3-9. Local Backup Printer Connection

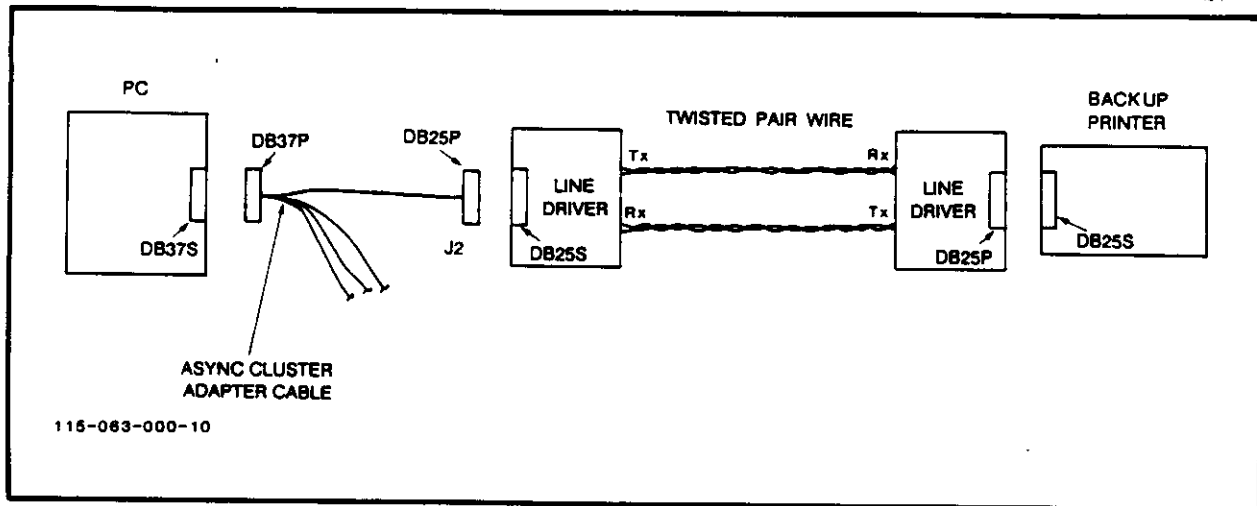


Figure 3-10. Remote Backup Printer Connection

**At the Printer:**

1. Plug the 25-pin male connector on the line driver into the input port of the printer.

**At the PC:**

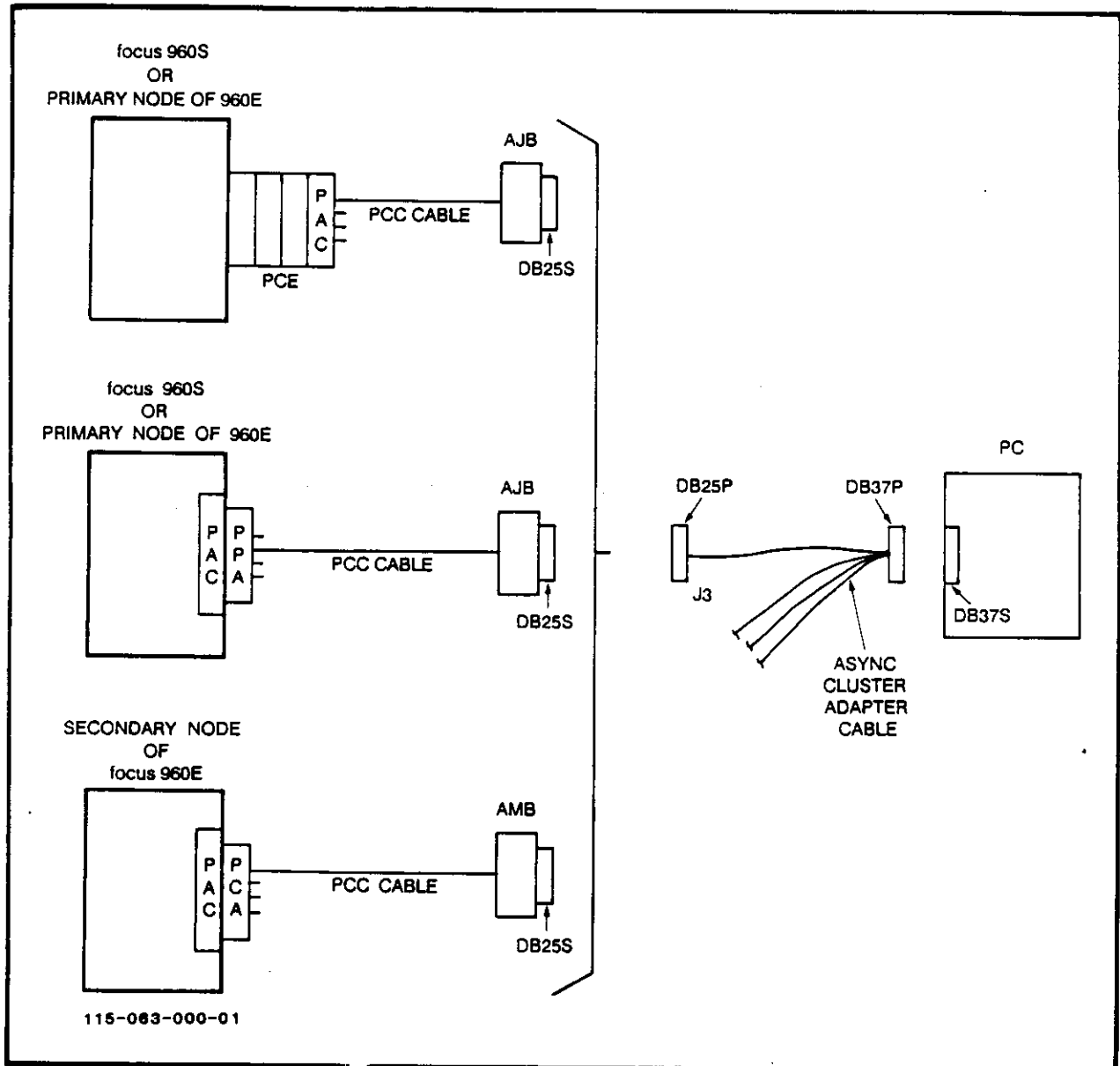
1. Plug the 37-pin connector on the Async Cluster Adapter cable into the 37-pin connector on the Async Cluster Adapter card at the rear of the PC (if not already done).
2. Plug the 25-pin male connector labeled J2 on the Async Cluster Adapter cable into the 25-pin female connector on the line driver.
3. Connect the two line drivers with twisted pair cable in accordance with the installation instructions in the line driver manual.
4. This completes the connection of a remote backup printer.

**8. PROCESSOR INTERFACE LINK (PIL) FROM PBX TO PC**

8.01 If you have a local cable kit, refer to Figure 3-11 and use the following steps to connect it.

**NOTES:**

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
  2. These procedures assume the PBX hardware has already been configured for this application. Refer to the **focus 960** Installation/Maintenance Manual for further information.
1. Plug one end of a PCC cable into the PCE, PPA, or PCA (whichever is being used).



**Figure 3-11. Local PIL Connection**

2. Plug the other end into either the AJB or AMB included with the cable kit. Refer to Figure 3-11 to determine the proper adapter to be used.
3. Plug the 25-pin female connector on the AJB or AMB into the 25-pin male connector labeled J3 on the Async Cluster Adapter cable.
4. Plug the 37-pin connector on the Async Cluster Adapter cable into the 37-pin connector on the Async Cluster Adapter card at the rear of the PC (if not already done).
5. This completes the local connection of the PIL.

8.02 If you have a remote cable kit, refer to Figure 3-12 and follow the steps below to connect it.

**NOTES:**

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
2. These procedures assume the PBX hardware has already been configured for this application. Refer to the **focus 960** Installation/Maintenance Manual for further information.
3. For these procedures, you should have on hand kit PLA, P/N 301851-01.

**At the PBX:**

1. Plug one end of a PCC cable into the PCE, PPA, or PCA (whichever is being used).
2. Plug the other end into either the AJC or AMC included with the cable kit. Refer to Figure 3-12 to determine the proper adapter to be used.

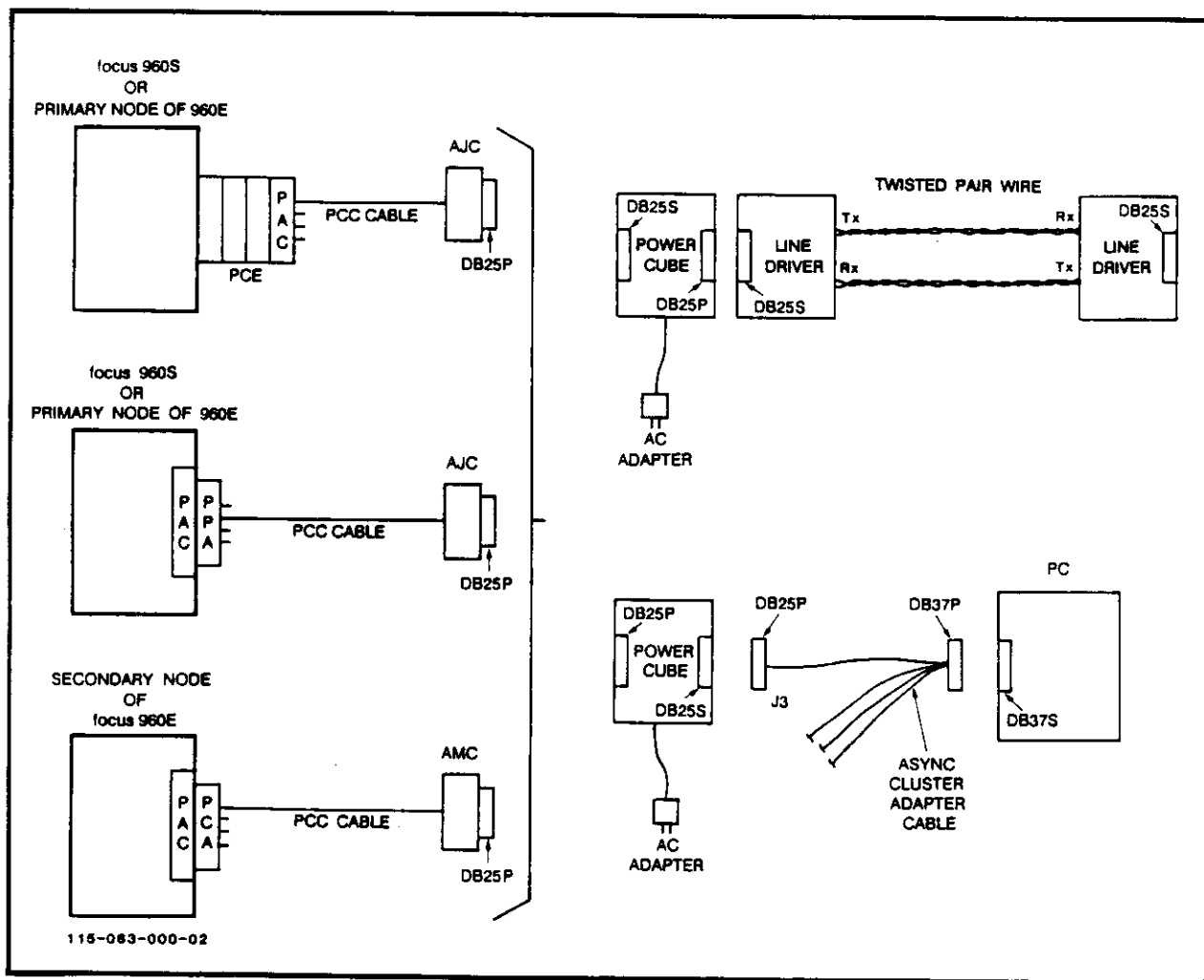


Figure 3-12. Remote PII Connection

3. Plug the 25-pin female connector on one of the power cubes into the AJC or AMC.
4. Plug the 25-pin female connector on the line driver into the 25-pin male connector on the power cube.
5. Plug the power cube AC adapter into an AC outlet.

**At the PC:**

1. Connect the 37-pin connector on the Async Cluster Adapter cable to the 37-pin connector on the Async Cluster Adapter card at the rear of the PC (if not already done).
2. Plug the 25-pin female connector on the power cube into the 25-pin male connector labeled J3 on the Async Cluster Adapter cable.
3. Plug the 25-pin female connector on the line driver into the 25-pin male connector on the power cube.
4. Plug the power cube AC adapter into an AC outlet.
5. Connect the two line drivers with twisted pair cable in accordance with the installation instructions in the line driver manual.
6. This completes the remote PIL connection.

**9. SMDR CONNECTION FROM PBX TO PC**

**9.01** If you have a local cable kit and you have a call record buffer, refer to Figure 3-13 and follow these steps.

**NOTES:**

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
  2. These procedures assume the PBX hardware has already been configured for this application. Refer to the **focus 960** Installation/Maintenance Manual for further information.
  3. For these procedures, you should have on hand, kits PLP, P/N 301850-01 and CRB, P/N 735043-01.
1. Plug one end of a PCC cable into the PCE, PPA, or PCA (whichever is being used).
  2. Plug the other end into either the AJA or AMA included with the cable kit. Refer to Figure 3-13 to determine the proper adapter to be used.
  3. Plug the AJA or AMA into the 25-pin female connector on the call record buffer.
  4. Plug the 25-pin female connector on the Type 1 cable into the 25-pin male connector on the call record buffer.
  5. Plug the 9-pin connector on the Type 1 cable into the 9-pin connector on the Premium card (COM1) at the rear of the PC.
  6. This completes the connection of a local SMDR link with a call record buffer.



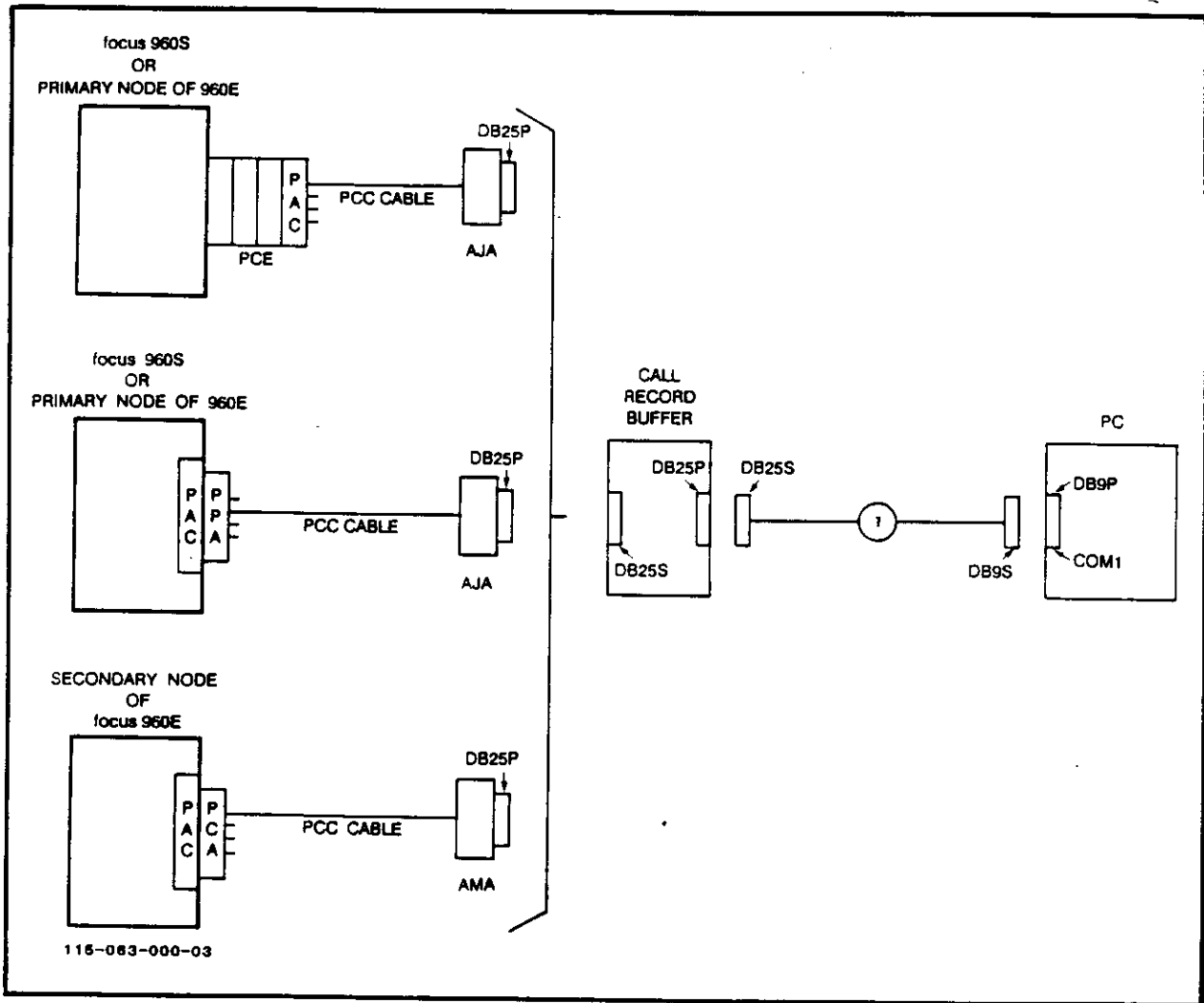


Figure 3-13. Local PBX to PC SMDR Link with Call Record Buffer

9.02 If you have a remote cable kit and you have a call record buffer, refer to Figure 3-14 and follow these steps.

**NOTES:**

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
2. These procedures assume the PBX hardware has already been configured for this application. Refer to the **focus 960** Installation/Maintenance Manual for further information.
3. For these procedures, you should have on hand kits CRB, P/N 735043-01 and SRK, P/N 301852-01.

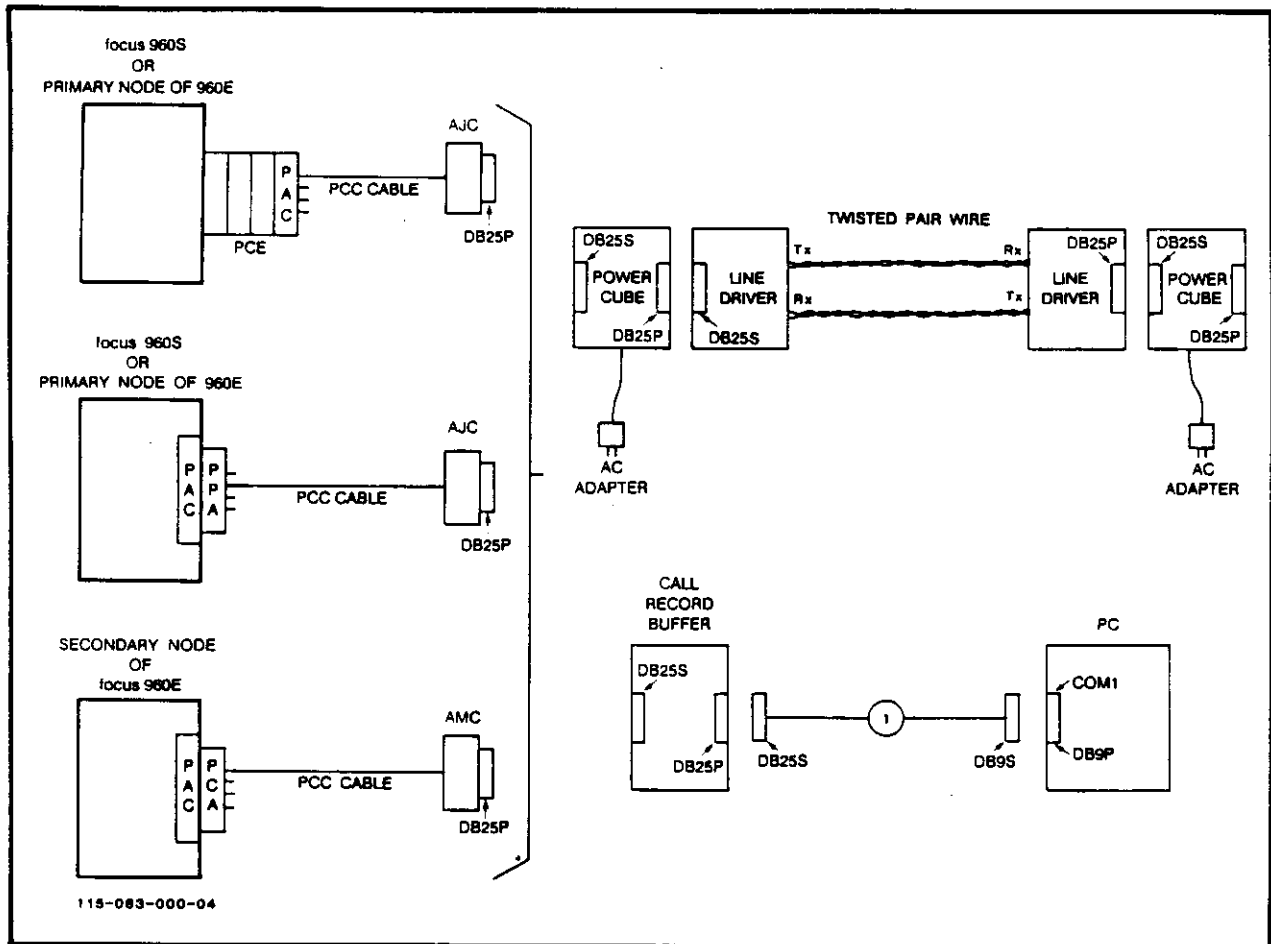


Figure 3-14. Remote PBX to PC SMDR Link with Call Record Buffer

**At the PBX:**

1. Plug one end of a PCC cable into the PCE, PPA, or PCA (whichever is being used).
2. Plug the other end into either the AJA or AMA included with the cable kit. Refer to Figure 3-14 to determine the proper adapter to be used.
3. Plug the 25-pin female connector on one of the power cubes into the AJA or AMA.
4. Plug the 25-pin female connector on the line driver into the 25-pin male connector on the power cube.
5. Plug the power cube AC adapter into an AC outlet.

**At the PC:**

1. Plug the 9-pin connector on the Type 1 cable into the 9-pin connector on the Premium card (COM1) at the rear of the PC.
2. Plug the 25-pin female connector on the Type 1 cable into the 25-pin connector on the call record buffer.

3. Plug the 25-pin male connector on the power cube into the 25-pin female connector on the call record buffer.
4. Plug the 25-pin male connector on the line driver into the 25-pin female connector on the power cube.
5. Plug the power cube AC adapter into an AC outlet.
6. Connect the two line drivers with twisted pair cable in accordance with the installation instructions in the line driver manual.
7. This completes the remote connection of the SMDR link with a call record buffer.

9.03 If you have a local cable kit and you do not have a call record buffer, refer to Figure 3-15 and follow these steps.

**NOTE:** For these procedures, you should have on hand kit PLP, P/N 301850-01.

1. Plug one end of a PCC cable into the PCE, PPA, or PCA (whichever is being used).

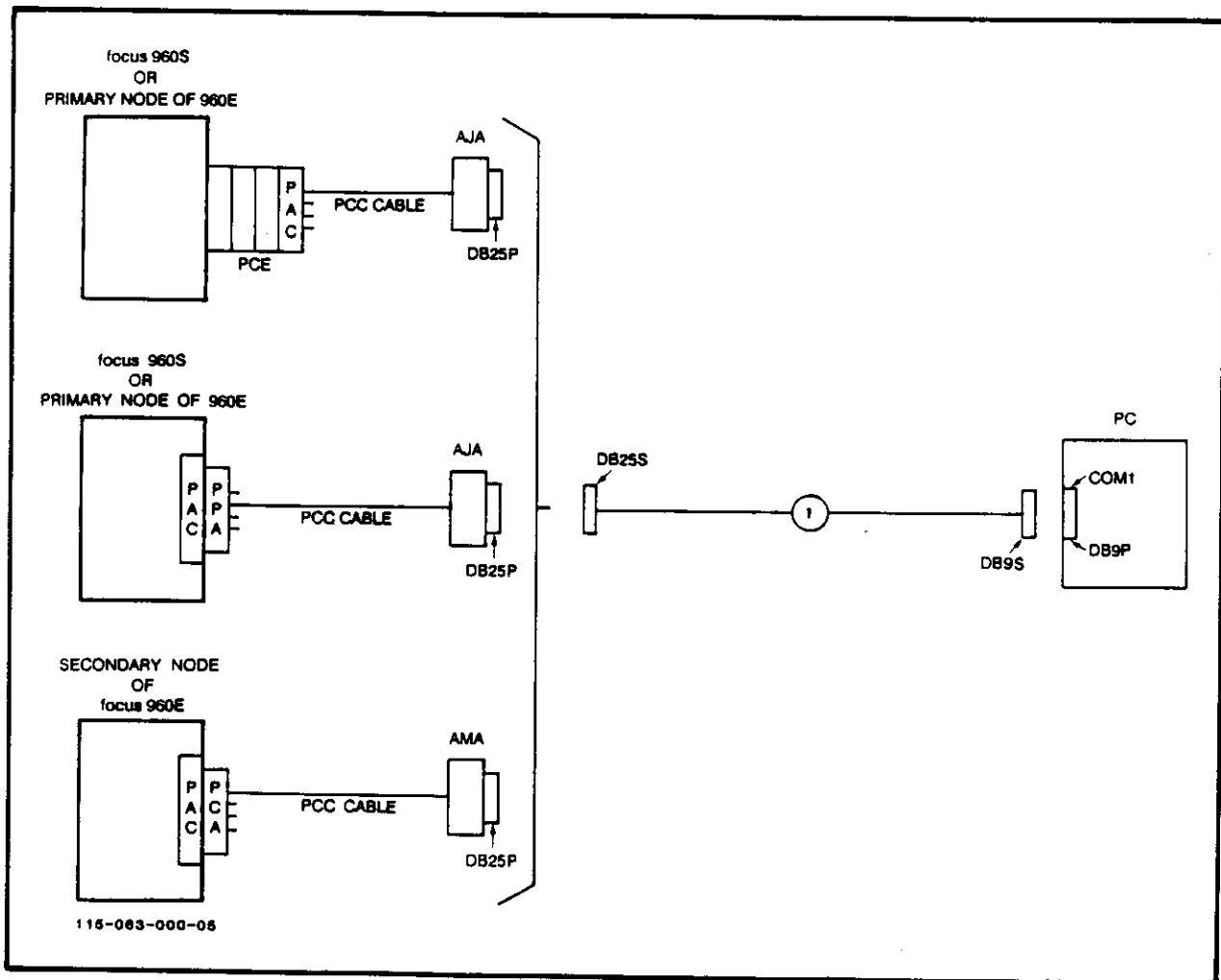


Figure 3-15. Local PBX to PC SMDR Link without Call Record Buffer

2. Plug the other end into either the AJA or AMA included with the cable kit. Refer to Figure 3-15 to determine the proper adapter to be used.
3. Plug the 25-pin female connector on the Type 1 cable into the AMA or AJA.
4. Plug the 9-pin connector on the Type 1 cable into the 9-pin connector on the Premium card (COM1) at the rear of the PC.
5. This completes the local connection of the SMDR link without call record buffer.

9.04 If you have a remote cable kit and you do not have a call record buffer, refer to Figure 3-16 and follow these steps.

**NOTES:**

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
2. These procedures assume the PBX hardware has already been configured for this application. Refer to the **focus 960** Installation/Maintenance Manual for further information.

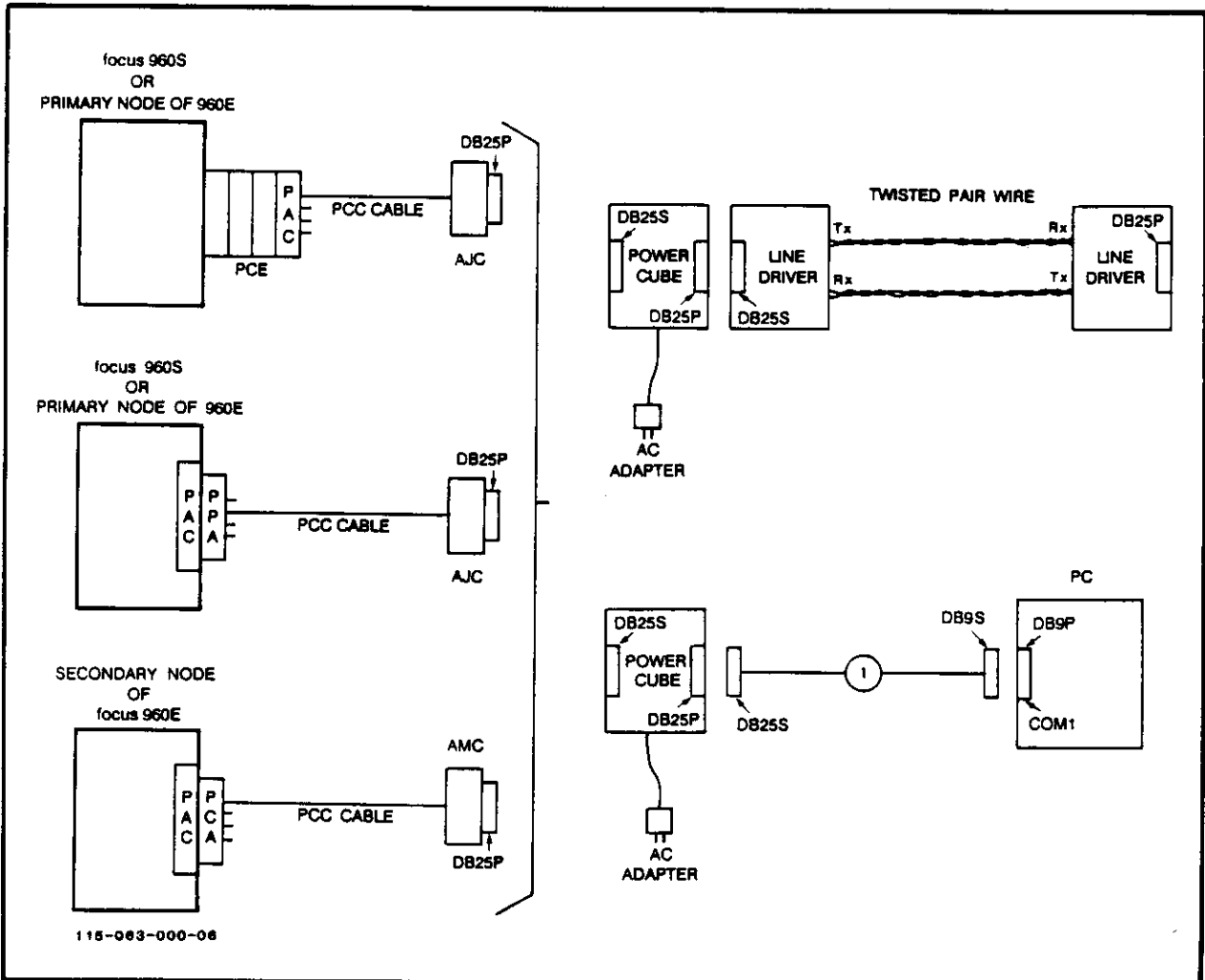


Figure 3-16. Remote PBX to PC SMDR Link without Call Record Buffer

3. For these procedures, you should have on hand kits PLP, P/N 301850-01 and SRK, P/N 301852-01.

**At the PBX:**

1. Plug one end of a PCC cable into the PCE, PPA, or PCA (whichever is being used).
2. Plug the other end into either the AJC or AMC included with the cable kit. Refer to Figure 3-16 to determine the proper adapter to be used.
3. Plug the 25-pin female connector on one of the power cubes into the AJC or AMC.
4. Plug the 25-pin female connector on the line driver into the 25-pin male connector on the power cube.
5. Plug the power cube AC adapter into an AC outlet.

**At the PC:**

1. Plug the 9-pin connector on the Type 1 cable into the 9-pin connector on the Premium card (COM1) at the rear of the PC.
2. Plug the 25-pin female connector on the Type 1 cable into the 25-pin male connector on the power cube.
3. Plug the 25-pin male connector on the line driver into the 25-pin female connector on the power cube.
4. Plug the power cube AC adapter into an AC outlet.
5. Connect the two line drivers with twisted pair cable in accordance with the installation instructions in the line driver manual.
6. This completes the connection of the remote SMDR link without call record buffer.

**10. PMS INTERFACE LINK**

- 10.01 If you have a local cable kit, refer to Figure 3-17 and follow these steps.

**NOTES:**

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
  2. These procedures assume the PBX hardware has already been configured for this application. Refer to the **focus 960** Installation/Maintenance Manual for further information.
1. Plug the 9-pin female connector of the Type 4 cable into the 9-pin male connector (COM2) at the rear of the PC. (COM2 is the second serial port which was installed in expansion slot 3.)
  2. Plug the 25-pin male connector on the Type 4 cable into the 25-pin female connector on the PMS.
  3. This completes the local PMS interface link connection.

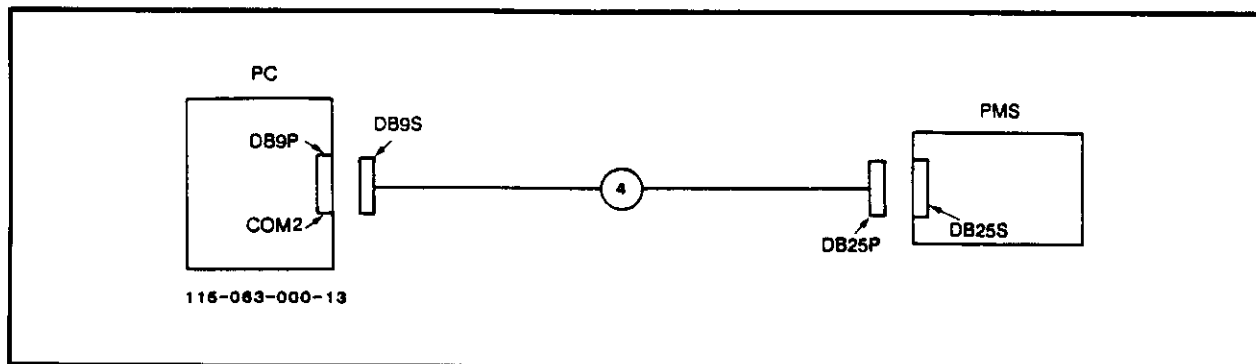


Figure 3-17. Local PC to PMS Interface Connection

10.02 If you have a remote cable kit, refer to Figure 3-18 and follow these steps.

**NOTES:**

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
2. These procedures assume the PBX hardware has already been configured for this application. Refer to the **focus 960** Installation/Maintenance Manual for further information.
3. For these procedures you should have on hand kits DLB, P/N 301858-01 and RAL, P/N 301860-01.

**At the PC:**

1. Plug the 9-pin female connector of the Type 1 cable into the 9-pin male connector (COM2) at the rear of the PC. (COM2 is the second serial port installed in expansion slot 3.)
2. Plug the 25-pin female connector of the Type 1 cable into the 25-pin male connector on the line driver.

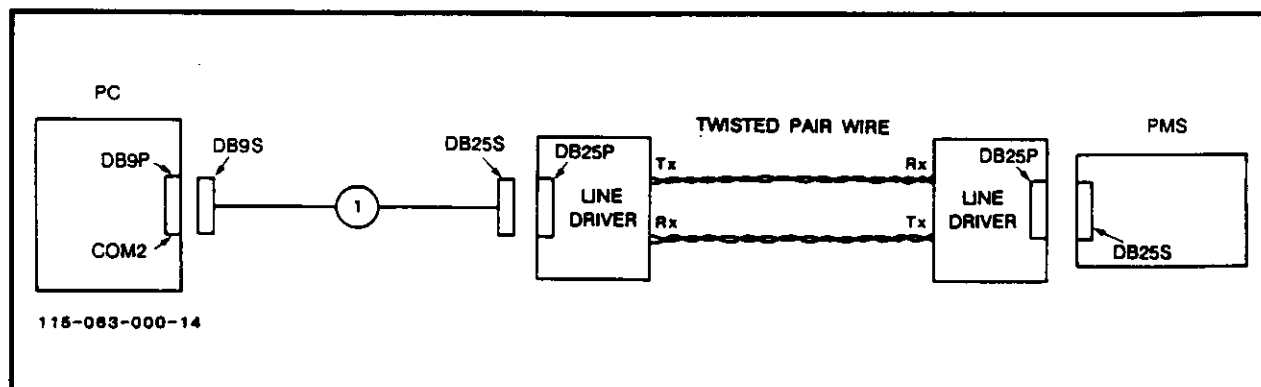


Figure 3-18. Remote PC to PMS Interface Connection

## At the PMS:

1. Plug the 25-pin male connector on the line driver into the 25-pin female connector on the PMS.
2. Connect the two line drivers with twisted pair cable in accordance with the installation instructions in the line driver manual.
3. This completes the remote PMS interface link connection.

## 11. HOBIC LINK CONNECTION

11.01 If you have a local cable kit, refer to Figure 3-19 and follow these steps.

### NOTES:

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
  2. These procedures assume the PBX hardware has already been configured for this application. Refer to the **focus 960** Installation/Maintenance Manual for further information.
  3. For these procedures, you should have on hand kit DLB, P/N 301858-01.
1. Plug the 37-pin connector on the Async Cluster Adapter cable into the 37-pin connector on the Async Cluster Adapter card at the rear of the PC (if not already done).
  2. Plug the 25-pin male connector labeled J1 on the Async Cluster Adapter cable into the 25-pin female connector on the Type 3 cable.
  3. Plug the 25-pin male connector on the Type 3 cable into the 25-pin female connector on the PMS.
  4. This completes the connection for a local HOBIC link.

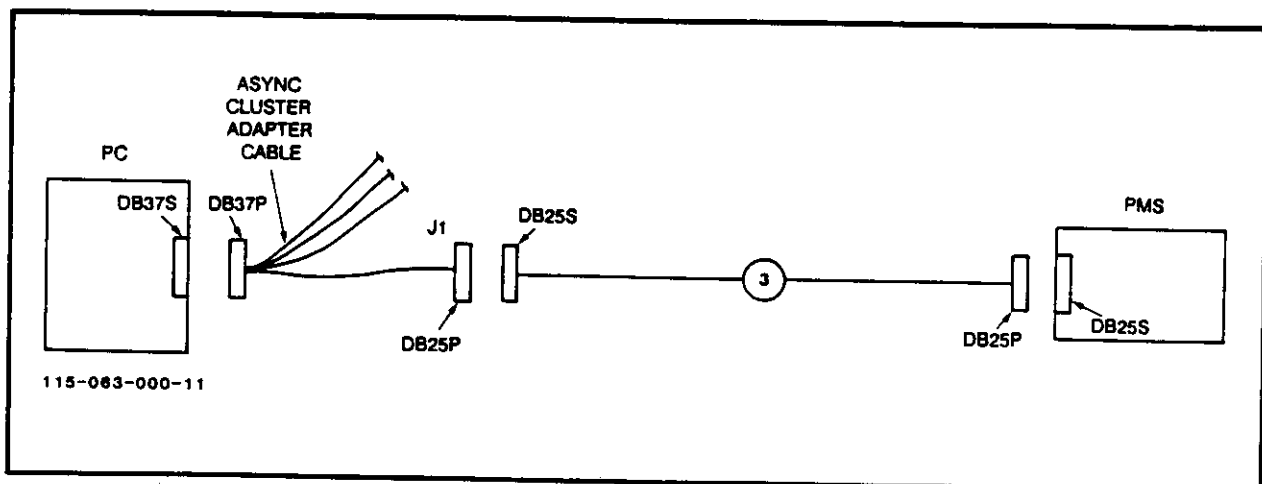


Figure 3-19. Local HOBIC Connection

11.02 If you have a remote cable kit, refer to Figure 3-20 and follow these steps.

**NOTES:**

1. The cable kits are standard items which support the installation of various applications. Not all items contained in a kit are used for every site. Use only those items called out in the diagram you are using.
2. These procedures assume the PBX hardware has already been configured for this application. Refer to the **focus 960** Installation/Maintenance Manual for further information.
3. For these procedures, you should have on hand kits DLB, P/N 301858-01 and RAL, P/N 301860-01.

**At the PC:**

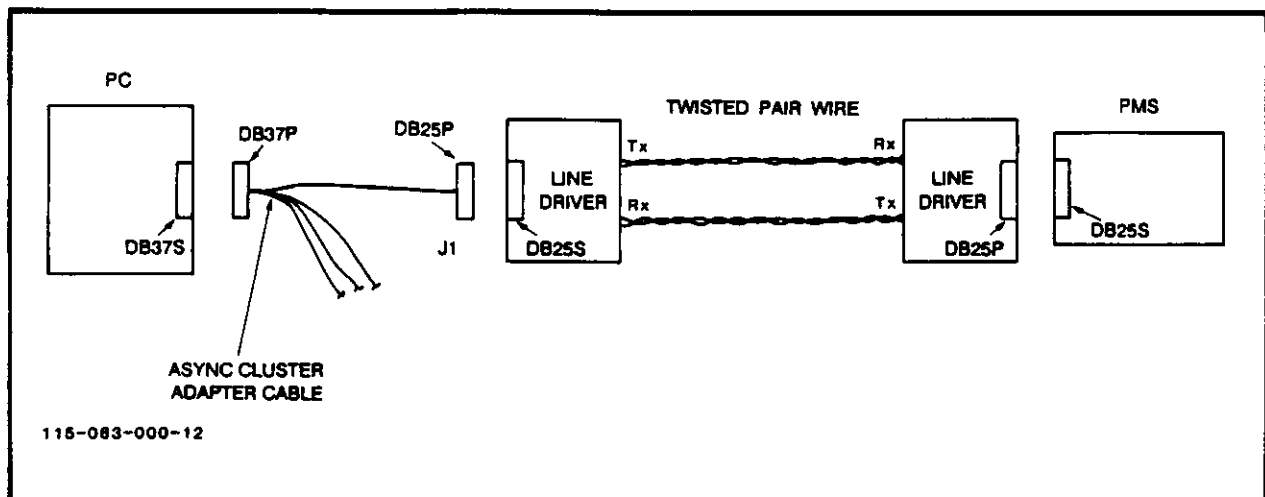
1. Plug the 37-pin connector on the Async Cluster Adapter cable into the 37-pin connector on the Async Cluster Adapter card at the rear of the PC (if not already done).
2. Plug the 25-pin male connector labeled J1 on the Async Cluster Adapter cable into the 25-pin female connector on one of the line drivers.

**At the PMS:**

1. Plug the 25-pin male connector on the line driver into the 25-pin female connector on the PMS.
2. Connect the two line drivers with twisted pair cable in accordance with the installation instructions in the line driver manual.
3. This completes the connection of a remote HOBIC link.

**12. CONNECTION OF PBX TO PC VOICE LINES**

12.01 Each Brooktrout Voice Response card has two standard modular telephone jacks. The top jack is a monitor jack. The lower jack is to connect the voice line from the PBX.



**Figure 3-20. Remote HOBIC Connection**



**12.02** To connect these lines, do the following:

1. Using the **focus 960** Customer System Specifications determine which two stations have been assigned as room status lines.
2. Using the **focus 960** Installation/Maintenance Manual, find these two stations on the MDF.
3. Run wires from the MDF to the vicinity of the PC. Be sure to identify the two lines.
4. Mount two modular jacks (RJ11-type) near the PC. Label the jacks with the station numbers. These two lines must be installed in the proper sequence or the system will not function properly.
5. Plug one end of a standard telephone line cord into the jack for the first station and the other end into the lower jack of the first Brooktrout card. The first card is the one installed in expansion slot 5.
6. Plug one end of a standard telephone line cord into the jack for the second station and the other end into the lower jack of the second Brooktrout card. The second card is the one installed in expansion slot 6.
7. This completes connection of the voice lines.



## CHAPTER 4 SOFTWARE INSTALLATION

### 1. GENERAL

**1.01** When the hardware installation has been completed, install the Lodging II software. The following operations should be done in order.

1. Start Concurrent DOS (CDOS).
2. Copy the Software Disks.
3. Format the PC Hard Disk.
4. Install CDOS and the Hard Disk Loader.
5. Install the Lodging II Application Software.
6. Install the CCMI Rate Tables.
7. Set the Lodging II Communication Ports.
8. Program the Customer Data Base.

**1.02** Before starting the installation, make sure that you have the following disks:

1. Concurrent DOS Disks 1 through 4.
2. **focus** Lodging II - one disk.
3. MS or PC DOS. Quantity of 1 or 2 depending on the version.
4. CCMI Rate Tables (1-4). A possible four disks may be supplied, but this depends on what options were purchased and make up your costing tables.

### 2. START CONCURRENT DOS (CDOS)

1. Turn the PC off.
2. Insert CDOS disk #1 in drive A (the floppy disk drive).
3. Turn the PC on.
4. If it is necessary to turn your monitor on separately, then do so now.
5. When the loading is finished, the monitor screen will display **DRI** in very large letters.
6. Press **F1**.
7. The Main Installation Menu will be displayed.

### 3. COPY THE SOFTWARE DISKS

**3.01** Once CDOS has been started and the Main Installation Menu is displayed on the screen, make copies of all CDOS and SMDA disks.

**NOTE:** Label disk copies as you make them.

1. Press **F2**. **Make Backup Copies Of The Original Floppy Diskettes**

**NOTE:** You will be in the Concurrent Disk Maintenance Program. A message will be displayed which asks you to **Insert and Select the Source Diskette**. (The source disk will always be your original SMDA or CDOS disk.)

2. Insert the source disk into drive A and,

Press **F2**

to set the source drive.

3. Another message will appear asking you to **Insert And Select the Destination Diskette**. (The destination disk will always be the disk to which you are copying.)

4. Remove the source disk and insert a blank disk into drive A.

Press **F2**.

**NOTE:** If you insert a disk that is not blank, a different message will be displayed. You must format the blank disks using CDOS.

5. A message will be displayed which asks if you want to format the destination disk.

Type **Y**

6. The screen display will now read:

**The data on the destination diskette in drive A will be erased. Is this what you want to do (Y or N)?**

Type **Y**

7. **Insert a Source Diskette and Type any Key** will prompt you to insert the same source disk you just used into drive A.

8. After the contents of the disk have been read into the computer's memory, a screen prompt will appear which says:

**Insert Destination Diskette and Type Any Key**

9. Upon completion, insert a different source disk and press **F2**.

10. Insert another destination disk and repeat steps 4-8, above, until all the disks have been copied. (Follow the screen instructions.)

3.02 Store all of the original disks and proceed with the software installation using the copies you just made.

#### 4. FORMAT THE PC HARD DISK

4.01 When you have completed the process of making copies of your original Lodging II software, it is necessary to format your PC hard disk drive into two partitions: DOS and CP/M. **Always** install the DOS partition before doing the CP/M formatting.

1. Press **ESC** to return to the Main Installation Menu.
2. Press **ESC** again to exit the Main Installation Menu.
3. Insert CDOS disk #1 in drive A and press **F9**.

**NOTE:** If your hard disk already has information on it, then you must do the following:

- a. Remove the CDOS disk from drive A and insert PC DOS.
- b. Press the **CTRL, ALT, and DEL** keys simultaneously.
- c. At the A > prompt, type:  
**FDISK**
- d. The **FDISK OPTIONS Menu** will be displayed. Select item 3, **Delete DOS Partition**.
- e. The screen displays - **Warning! Data on the DOS partition will be lost. Do you wish to continue? N**
- f. Type **Y** and press **ENTER**.
- g. The **DOS partition deleted** is your next message on the screen.
- h. Remove the PC DOS disk and insert CDOS disk number 1 in drive A.
- i. Press the **CTRL, ALT, and DEL** keys simultaneously. This will reboot the system by loading in CDOS again.
- j. At the **DRI** screen,

Press **F1**.

The Main Installation Menu will appear.

4. Press **F4. Install Concurrent for Hard Disk Based System**

The Concurrent Hard Disk Installation Menu will appear.

5. Press **F2. Format the Hard Disk**

6. Your next screen prompt is:

**Place the Concurrent Utilities Disk #1 (Disk #2 of 4) in drive A**

7. Insert CDOS disk 2 in drive A and Press **F2. Continue Formatting.**  
This command will place you in the Concurrent Hard Disk Maintenance Program.
8. If the hard disk has never been formatted, you will see in the top right hand corner of the screen, **000**. This is the number of used cylinders in the **Partition Summary for the first hard disk**. If this is true, proceed to Step 16.
9. If the hard disk has already been formatted and partitions currently exist, a number greater than 000 will be seen in Partition Summary. This summary also includes the names and sizes of both partitions.

**NOTE:** If this is not a new PC, but one which was used previously for other applications, remember to back up the contents of the hard disk if you want to save any of the files.

10. Press **F5. Delete CP/M partition**
11. **Do you really want to proceed?** will be your next message on the screen.  
Press **F9. Delete Existing Partition**  
The Main Installation Menu will next appear.
12. Press **F1. Display or Change Partitioning**
13. Repeat steps 10-12 if it is necessary to remove any additional partitions from the hard disk.
14. Press **F4. Create DOS Partitioning**
15. The next screen will show you the start and end cylinders of the DOS partition.  
Enter **000** and press **ENTER**. The screen will show the accepted partition size.
16. The system will accept the start cylinder of 000 and the screen will display this partition size.
17. When using the IBM 30MB hard disk, enter **150** and press **ENTER**. (Always enter a number which equals 25% of the total number of cylinders.)
18. Press **F10** to enter the partition size and to begin formatting.
19. Upon completion of this formatting,  
Press **ESC**.  
The Main Menu will be displayed within the Concurrent Hard Disk Maintenance Program.
20. Press **F1. Display or Change Disk Partitioning**  
The screen now shows you the size of the DOS partition just created. It will also provide several options.

21. **Press F3. Create the CP/M Partition**

The screen now shows the start and end cylinders of the DOS and CP/M partitions.

22. Enter the start cylinder number and press **ENTER**.

23. Press **F10** then enter **150**.

The screen shows the partition size.

24. Enter the total remaining number of cylinders, **582**, for the partition size.

25. Press **ENTER**.

26. Press **F10**. The system will accept your entry now and the next screen will display the CP/M options regarding directory size and verify writes to the hard disk.

27. Press **ESC. Accept CP/M Options As Shown**

This accepts the input as system default for the selected options and will begin the formatting.

28. When the formatting is done,

Press **ESC**.

The Main Menu will appear.

29. Press **ESC** again to exit the program. The next message will say:

**Please insert a boot diskette in drive A:**

30. Insert CDOS disk 1 in drive A.

31. Press **F9. Reload Operating System From Diskette**

32. When the **DRI** screen appears,

Press **F1**.

The Main Installation Menu appears.

5. **INSTALL CDOS AND THE HARD DISK LOADER**

5.01 You are now ready to install CDOS on the CP/M partition.

1. Press **F4. Install CDOS for Hard Disk Based System**

The Hard Disk Installation Menu will appear.

2. Press **F4. Install Concurrent on the CP/M Partition**. The screen will instruct you how to install CDOS.

3. Type **Y**

4. Strike any key when ready.
5. Follow the screen instructions for installing each of the CDOS disks, inserting each disk in the order prompted. When this is completed, the **Choose Startup Method** menu will appear.
6. Press **F2. Install The Concurrent DOS Hard DISK Loader**  
A keyboard diagram will appear.
7. Remove the last disk from drive A and press the **CTRL, ALT, and DEL** keys simultaneously.
8. When CDOS has been loaded (from the hard disk), the following message will prompt you:

**Install the Application**

5.02 Your next step is to load the Lodging II application disk.

**6. INSTALL THE LODGING II APPLICATION SOFTWARE**

1. Insert the Lodging II software disk in drive A and press any key.
2. After the software is loaded to the hard disk, a keyboard diagram will appear on the screen. At this point in the installation, you are ready to install the CCMi rate tables.

**7. INSTALL THE CCMi RATE TABLES**

7.01 These tables must be installed using MS or PC DOS.

1. Insert a PC or MS DOS disk into drive A.
2. Press the **CTRL, ALT, and DEL** keys simultaneously to start the system from this software program.

3. After the software has loaded,

Press **ENTER** twice.

4. The **A >** prompt will appear.

5. Type **C:** and press **ENTER**.

The system prompt will now be **C >** .

6. Type **DRESTORE** and press **ENTER**.

7. The screen prompts will provide you with instructions for inserting and copying the CCMi rate table disk(s) onto the hard disk. The next prompt will be:

**Insert backup diskette 01 in drive A: Strike any key when ready**

Remove the DOS disk from the drive and insert the (first) rate table disk. Strike any key. Follow the screen prompts if you have more than one rate table disk.



8. When you have finished loading all your disks, reboot the system by pressing the **CTRL, ALT, and DEL** keys simultaneously.

7.02 This will activate the software. It will load from the hard disk and step through a series of self diagnostics. When it is completed, the **focus** Lodging II Login screen will appear. The system default log-in name is **Admin-System**. There is no password.

### 8. SET THE LODGING II COMMUNICATION PORTS

8.01 The Application Processor comes set with default serial port configurations. Table 4-1 shows the settings which should be assigned on each port.

8.02 To make changes to any of the ports, use the following steps:

1. Log in to Lodging II. Type **ADMIN-SYSTEM** and press **ENTER** twice.
2. At the Main Menu, select item 3, **System Functions** and press **ENTER**.
3. From the system functions menu, select item 2, **Shut Down System**.
4. From the shut down menu, select item 1, **Shut Down and Exit to Operating System**.
5. A warning will be displayed regarding loss of call records and a prompt will ask if you wish to continue.

Type **Y** and press **ENTER**.

**Table 4-1. Serial Port Configuration Parameters**

PORT	COM1	COM2	J1	J2	J3	J4
Port Number	0	1	2	3	4	5
Port Use	SMDR Input	PMS Link	HOBIC Output	Backup Printer	PIL Link	Report Printer
Baud Rate	1200	1200	1200	1200	1200	1200
Word Length	8	8	8	8	8	8
Stop Bits	1	1	1	1	1	1
Parity	Odd	None	None	None	Odd	None
DTR/DSR In	On	Off	Off	Off	Off	Off
DTR/DSR Out	Off	Off	Off	Off	Off	Off
RTS/CTS In/Out	Off	Off	Off	Off	Off	Off
XON/XOFF In	Off	Off	On	Off	Off	Off
XON/XOFF Out	Off	Off	On	Off	Off	Off

6. A CDOS prompt of D> will appear.

**NOTE:** If the system prompt is 3D>, type **User 0** and press **ENTER**. The D> will then appear.

7. Type **SETPORT** and press **ENTER**.

This program will present a menu that informs you that the current port is **Serial Port**. This is your SMDR port.

8. Press **F3** to change the settings.

9. The next menu will allow you to change the port parameters as you press the appropriate function key. Once the port parameters match that of the PBX, press **ESC**. This will return you to the previous menu.

10. Press **F5** if the handshaking (DTR/DSR) needs to be changed.

11. Press **ESC**.

12. If changes have to be made to any of the other ports, press **F7** to change the port number.

13. Repeat steps 8-11 for each port to be configured.

**NOTE:** The changes you have made **will not** be permanently saved until you execute a program called **SETUP**.

14. At the D> prompt, type **SETUP** and press **ENTER**.

15. Press **F3**. **Save the System Parameters.**

16. Press **F3**.

17. Press **F5**. **Save the Serial Port Configuration.**

18. Press **ESC**.

19. Press **F10**. **Update and Exit.**

20. Press **F5**.

The changes you just made to the SMDR port (port 0) and any others are now permanently saved.

21. Restart Lodging II by pressing the **CTRL**, **ALT**, and **DEL** keys simultaneously.

**CAUTION:** All settings must match between the PBX and PC and the PMS and PC. If the settings do not match, interface problems will exist and the system will not function properly.

## **9. CUSTOMER DATA BASE ENTRY**

**9.01** Using the Lodging II Customer System Specifications and Lodging II System Administrator Manual, program the customer data base.

**9.02** It is suggested the data base be backed up on a floppy disk. To do this, refer to the Lodging II System Administrator Manual.

## CHAPTER 5 INSTALLATION TESTS

### 1. GENERAL

**1.01** At the conclusion of software installation, the Lodging II Application Processor should be ready to start processing information. To ensure everything is working properly, a series of tests should be made.

**1.02 Preparation.** In order to conduct the tests and prepare the AP for normal operation, do the following:

1. Check all connections to ensure they are properly made.
2. Ensure the report printer is plugged in, paper properly aligned and the power turned on.
3. Ensure the backup printer is plugged in, paper properly aligned and the power turned on.
4. Ensure the call record buffer (if used) is plugged in and the power turned on.
5. Ensure all power cubes (if used) are plugged in.

**1.03 Sequence.** The following tests check each portion of the AP. They should be performed in the order given. Each test assumes the previous test was successfully completed.

### 2. PBX TO PC, REPORT PRINTER, PIL, HOBIC, and PMS CONNECTIONS

**2.01** To test the SMDR link from the PBX and the report printer, do the following:

1. At the AP, log in with the user name **ADMIN-SYSTEM** and press **ENTER**, twice.
2. From the Main Menu, select item 3, **System Functions** and press **ENTER**.
3. From the System Functions Menu, select item 1, **Call Record Collection Functions** and press **ENTER**.
4. From that menu, select item 1, **Start Immediate Call Record Printout** and press **ENTER**.
5. Make several calls from PBX extensions classmarked as guest phones to numbers in the local calling area (411, weather, time, etc.).
6. As each call is disconnected, the following should occur:
  - a. The report printer should print a call record.

**NOTE:** This record is merely a reflection of the PBX SMDR output and does not include any costing or pricing information.

- b. The call record, with pricing information, should be posted to the guest account.

7. If no print out is received, ensure the printer is on and the connections properly made, then try the test again. If a printout is still not received, refer to the Lodging II Troubleshooting Guide for further information.
8. If the call is not posted to the guest room, check the connections between the PBX and PC and between the PC and the PMS. Try the test again. If the call is still not posted, refer to the Lodging II Troubleshooting Guide for further information.

### 3. CALL RECORD BUFFER

3.01 If the AP is equipped with a call record buffer, test it as follows:

1. Log in to Lodging II. Type **ADMIN-SYSTEM** and press **ENTER** twice.
2. At the Main Menu, select item 3, **System Functions** and press **ENTER**.
3. From the system functions menu, select item 2, **Shut Down System**.
4. From the shut down menu, select item 1, **Shut Down and Exit to Operating System**.
5. A warning will be displayed regarding loss of call records and a prompt will ask if you wish to continue.  
  
Type **Y** and press **ENTER**.
6. A CDOS prompt of **D >** will appear.
7. Make several calls from PBX extensions to numbers in the local calling area.
8. After the last call is made, restart Lodging II by pressing the **CTRL**, **ALT**, and **DEL** keys simultaneously.
9. When the login screen appears, log in with the user name **ADMIN-SYSTEM** and press **ENTER**, twice.
10. From the Main Menu, select item 1, **Reports** and press **ENTER**.
11. From the Report Menu, select item 1, **General Reports** and press **ENTER**.
12. From the General Report Menu, select item 1, **Chronological Call Detail Report** and press **ENTER**.
13. On the report screen, enter a starting time one or two hours earlier than the current time.
14. Enter the current time as the stop time.
15. Have the report sent to the printer.
16. Press **F1** to start the report.
17. When the report is completed, check it to see if the calls made during the shut-down are recorded.

18. If the calls are not on the report, run the report again with an earlier start time and a later stop time. If the calls are still not recorded, refer to the Lodging II Troubleshooting Guide for further information.

#### 4. VOICE LINES

4.01 If Brooktrout Voice Response cards are installed, check their operation by doing the following:

1. From a station classmarked as a guest phone, dial one of the voice line extension numbers.
2. When the system answers, enter the requested information.

**NOTE:** Depending on the customer data base, the system will ask for either a room number or a security code. Enter whichever is requested.

3. The system should respond as information is entered. The response will be to repeat what you have entered.
4. If, upon dialing the voice line, you receive the message, **System Problem**, check the two connections on the Brooktrout cards. Ensure they are tight, in the proper sequence, and in the lower jack.
5. Try the test, again. If there is still a problem, refer to the Lodging II Troubleshooting Guide for further information.