AS/400e series

IBM

Setting Up Your 9401 Model 150

Version 4

IBM

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> **Note**
>
> Before using this information and the product it supports, be sure to read the general information in "Safety Notices" on page v and "Notices" on page 83.

Contents

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Safety Notices

Danger Notices

A danger notice calls attention to a situation that is potentially lethal or extremely hazardous to people.

DANGER

> **An electrical outlet that is not correctly wired could place hazardous voltage on metal parts of the system or the products that attach to the system. It is the customer's responsibility to ensure that the outlet is correctly wired and grounded to prevent an electrical shock. (RSFTD201)**

DANGER

> **To prevent a possible electrical shock when installing the system, ensure that the power cords for all devices are unplugged before installing signal cables. (RSFTD202)**

DANGER

> **To prevent a possible electrical shock when adding or removing any devices to or from the system, ensure that the power cords for those devices are unplugged before the signal cables are connected or disconnected. If possible, disconnect all power cords from the existing system before you add or remove a device. (RSFTD203)**

DANGER

> **To prevent a possible electrical shock during an electrical storm, do not connect or disconnect cables or station protectors for communications lines, display stations, printers, or telephones. (RSFTD003)**

DANGER

> **To prevent a possible electrical shock from touching two surfaces with different electrical grounds, use one hand, when possible, to connect or disconnect signal cables. (RSFTD004)**

Caution Notices

A caution notice calls attention to a situation that is potentially hazardous to people because of some existing condition.

CAUTION:
Telecommunications Statement: This unit contains over-voltage circuits between the ac power outlet and the unit. These circuits meet the standard limits described in International Electrical Commission (IEC) 664, installation category II. It is the customer's responsibility to ensure that the power outlet meets the standards of IEC 664, installation category II. (RSFTC214)

CD-ROM Laser Safety Information

CAUTION:
This product may contain a CD-ROM which is a class 1 laser product. (RSFTC240)

Product Recycling and Disposal

Components of the system, such as structural parts and circuit cards, can be recycled where recycling facilities exist. IBM does not currently collect and recycle used IBM products from customers in the United States other than those products that are involved in trade-in programs. Companies are available to disassemble, reutilize, recycle, or dispose of electronic products. Contact an IBM account representative for more information.

The system unit contains batteries and circuit boards with lead solder. Before you dispose of this unit, these batteries and circuit boards must be removed and discarded according to local regulations or recycled where facilities exist. This book contains specific information on each battery type where applicable.

Battery Return Program

In the United States, IBM has established a collection process for reuse, recycling, or proper disposal of used IBM batteries and battery packs. For information on proper disposal of the batteries in this unit, please contact IBM at 1-800-426-4333. Please have the IBM part number that is listed on the

battery available when you make your call. For information on battery disposal outside the United States, contact your local waste disposal facility.

Environmental Design

The environmental efforts that have gone into the design of the system signify IBM's commitment to improve the quality of its products and processes. Some of these accomplishments include the elimination of the use of Class I ozone-depleting chemicals in the manufacturing process, reductions in manufacturing wastes, and increased product energy efficiency. For more information, contact an IBM account representative.

About Setting Up Your 9401 Model 150, SA41-5144

Welcome to the AS/400e computing system! This book will help you to get your AS/400 set up and running with a Twinaxial PC or workstation as your system unit console.

Who Should Read This Book

This book is intended for system operators or system administrators who are fairly new or new to AS/400. This book takes you through some of the basic tasks that have to be done on most AS/400 systems.

Prerequisite and related information

Use the AS/400 Information Center as your starting point for looking up AS/400technical information. You can access the Information Center from the AS/400e Information Center CD-ROM (English version: *SK3T-2027*) or from one of these Web sites:

http://www.as400.ibm.com/infocenter

The AS/400 Information Center contains important topics such as logical partitioning, clustering, Java, TCP/IP, Web serving, and secured networks. It also contains Internet links to Web sites such as the AS/400 Online Library and the AS/400 Technical Studio. Included in the Information Center is a link that describes at a high level the differences in information between the Information Center and the Online Library.

How to Send Your Comments

Your feedback is important in helping to provide the most accurate and high-quality information. If you have any comments about this book or any other AS/400 documentation, fill out the readers' comment form at the back of this book.

- If you prefer to send comments by mail, use the readers' comment form with the address that is printed on the back. If you are mailing a readers' comment form from a country other than the United States, you can give the form to the local IBM branch office or IBM representative for postage-paid mailing.
- If you prefer to send comments by FAX, use either of the following numbers:

- United States and Canada: 1-800-937-3430
- Other countries: 1-507-253-5192
- If you prefer to send comments electronically, use one of these e-mail addresses:
  - Comments on books:

    RCHCLERK@us.ibm.com

    IBMMAIL, to IBMMAIL(USIB56RZ)
  - Comments on the AS/400 Information Center:

    RCHINFOC@us.ibm.com

Be sure to include the following:
- The name of the book.
- The publication number of the book.
- The page number or topic to which your comment applies.

Chapter 1. Getting Your 9401 Model 150 Installed and Running

Before you begin setting up your AS/400 and a Twinaxial PC or workstation as your system unit console, you should have the following:

Attention:

When the system is shipped or stored in a cold environment, there is a possibility that water condensation will form on the cool surfaces inside the machine. To avoid this, allow sufficient time to reach equilibrium with warmer indoor temperatures before removing the shipping bag. Leave the system unit inside the shipping bag for 6 to 12 hours to let it acclimate to the final operating environment.

- The telephone number for your service representative. You may need to contact your service representative for the following:
  - Hardware problems
  - IBM service support telephone numbers for electronic customer support, if you are **outside** of the United States. (For U.S. customers, these telephone numbers are automatically provided during setup.)

  Find the number for your service representative by contacting the dealer from whom you purchased your system. AS/400 service and support numbers can also be found on the following Web site:

  `www.ibm.com/as400/techstudio`
- A modem, if you are using electronic customer support. The modem may have been shipped or packaged separately.
- A telephone or telephone jack for the ECS modem. The telephone line must be an analog line. A digital line will not work.
- A blank tape for backing up your AS/400 operating system. IBM recommends that you purchase an IBM DC9250 2.5GB 1/4-inch data cartridge tape (16G8437) or equivalent.

  In the near future, you should purchase additional tapes to backup up your system. One tape allows you to initially save your system, but it will not be adequate for a long-term solution.
- A standard screwdriver or 5.5 mm socket wrench or equivalent if the back cover of your system has two screws located near the bottom of the cover.

Getting Your 9401 Model 150 Installed and Running

Contact your dealer for system installation assistance and services.

Complete the steps in sequence. Note that you may not complete every step in this book because of the cables you have to connect.

Planning For Your System

__ 1. As part of your system planning activity, decisions need to be made about where to locate your equipment, who will operate the computer, and so on. You need to ensure that you have proper work space, product information, and a power outlet for your system.

Before you begin to set up your system, read the following sections. These sections provide the proper site planning necessary to ensure successful installation and operation of your system.

Attention:

AS/400 9401 Model 150 System Unit is a floor-standing installation only. It is not to be installed on desks or tables.

__ 2. **9401 Model 150 Product Specifications**

Size and Weight	
Width	195mm (7.7 inches) excluding pedestal
	299mm (11.8 inches) including pedestal
Depth	555mm (21.9 inches) with back cover
	447mm (17.6 inches) without back cover
Height	520mm (20.5 inches)
Weight	20 kg (44 lbs)
Shipping Package	
Width	407mm (16 inches)
Depth	737mm (29 inches)
Height	661mm (26 inches)
Power Consumption	
Airflow	Each system unit has its own fan
Nominal Voltage Range	100-127 V ac, 200-240 V ac
Maximum measured kVA	0.3

Phase	1
Watts	182 W
BTU	622 BTU/hour
kVA	0.314
Note: To look at the rating plate, see "How to Locate the Rating Plate In Your System Unit" on page 79. The rating plate shows the voltage ranges for your system.	
Temperature and Humidity Limits	
Maximum Temperature Dry Bulb	Operating 10° to 37.8°C (50° to 100°F) Non-operating 10° to 43°C (50° to 109.4°F)
Relative Humidity	8% to 80%
Maximum Temperature Wet Bulb	Operating 23°C (73.4°F) Non-operating 27°C (80.6°F)

Power Cord	
2960	This option specifies that all power cords for the ordered system be 2.44 meters (6 feet) long, 15 A and 100-127 V ac.
2961	This option specifies that all power cords for the ordered system be 2.44 meters (6 feet) long, 10 A and 200-240 V ac.
Power Cord Plugs		
Type 4 Non Locking 125V 15A	NEMA 5-15R	

Type 5	NEMA 6-15R	
Non Locking 250V 15A		

__ 3. **Cable Path Considerations**

- Cables should be routed to avoid:
  - Creating a safety hazard
  - Exposing a cable to damage
  - Sources of electrical interference (for example, electric motors and transformers)
- Cables that run outside of a building must have lightning protection as specified in the following National Electrical Code articles or other national codes:
  - 645
  - 725
  - 770
  - 800

__ 4. **Workstation Cable Considerations**

- Separating Twinaxial Cables from Electrical Equipment

  Workstation signal cables should not be installed near any transmitting power lines or electrical equipment that uses more than 440 volts. The following distances are a guide for voltages up to 440 volts:

  - The recommended minimum distance between a signal cable and fluorescent, neon, or incandescent lighting fixtures is 127 millimeters (5 inches).
  - The recommended minimum distance between a signal cable and either unshielded power lines or electrical equipment depends on the power consumption of the equipment:
    - 2 kVA or below: 127 millimeters (5 inches)
  - The recommended minimum distance between a signal cable and unshielded power lines or electrical equipment with the signal cable in a grounded metallic conduit is:
    - 2 kVA or below: 63.5 millimeters (2.5 inches)
  - The recommended minimum distance between a signal cable and power lines in a grounded metallic conduit is:
    - 2 kVA or below: 63.5 millimeters (2.5 inches)

– The recommended minimum distance between a signal cable
enclosed in a grounded metallic conduit and power lines in a
grounded metallic conduit is:

- 2 kVA or below: 30.5 millimeters (1.2 inches)

• Local Workstation Cables

It is your responsibility to purchase, install, label, and test
workstation cables and station protectors. Because of the effort and
expertise that is required to assemble cables, it is recommended that
you purchase assembled cables.

__ 5. **Telephone Twisted-Pair Cabling Considerations**

Telephone twisted-pair cabling allows you to attach display stations
and printers to a twinaxial workstation controller by using the IBM
5299 Model 3 Mid-Range System Hub or the IBM 7299 Terminal
Multiconnector. Each allows you to attach workstations using the same
telephone wiring cable that is typically already installed for telephone
voice networks.

Notes:

a. IBM recommends that customers install the IBM 7299 Mid-Range
System Hub Model 8TC when attaching more than one workstation
to a single host port.

b. If you use a non-IBM telephone twisted-pair adapter and terminal
multiconnector box, they must be equivalent to the IBM 7299
specifications. For more information, refer to the *IBM 7299 Express
Hub for AS/400 Systems Specifications* book, G224-4535.

The following picture shows an example of how telephone twisted-pair
cabling can be used to attach devices to a system. The twinaxial to
twisted-pair adapter in the picture is also known as a **balun (G)**.

Planning For Your System
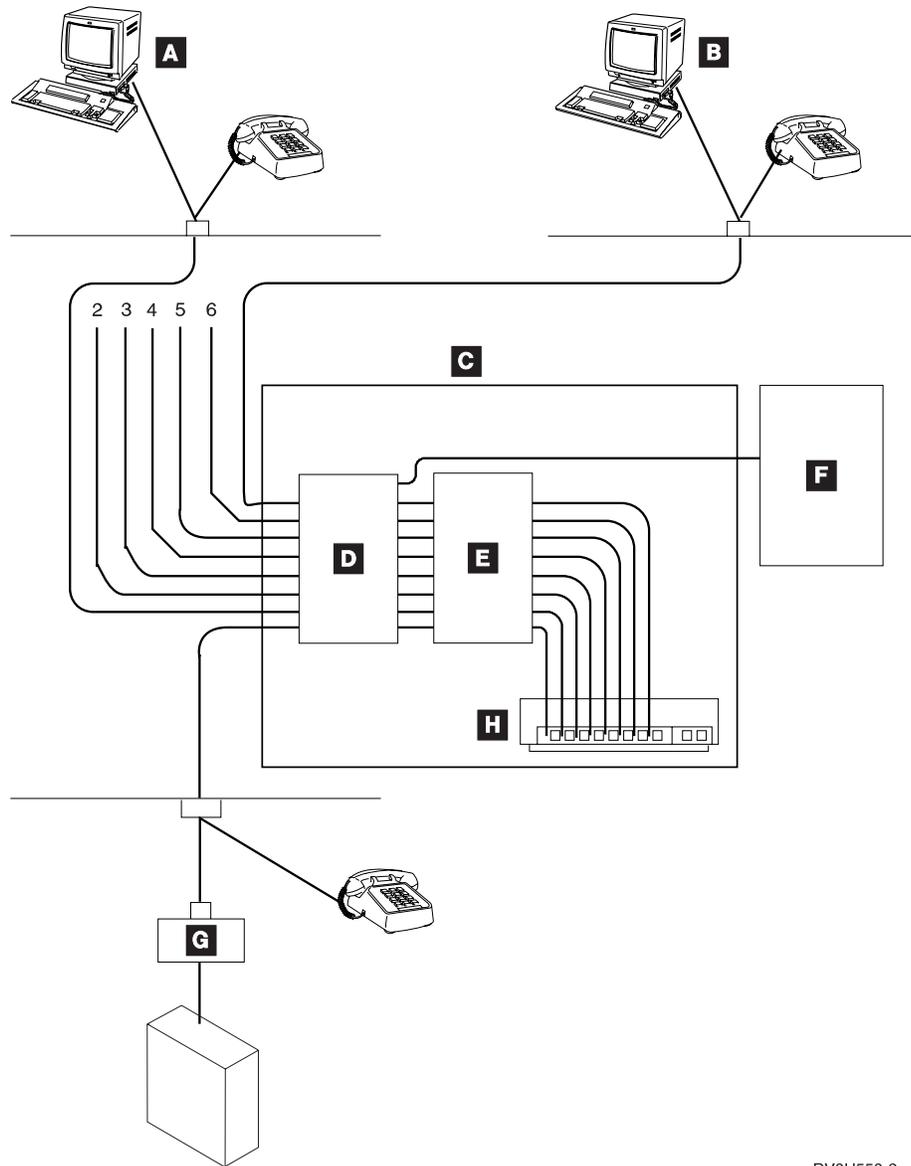
RV3U553-2

A   Twinaxial to twisted-pair adapter (United States and Canada only)

B   Twinaxial to twisted-pair adapter (United States and Canada only)

C   Telephone wiring closet

D   Telephone wiring block

E   Data wiring block (patch panel)

F   Telephone system central console

G   Twinaxial to twisted-pair adapter (balun) (United States and Canada only)

H   7299 Model 3 terminal multiconnector

__ 6. Continue with "Installing System Console Cables".

Installing System Console Cables

You will be connecting cables to the back of your system unit. The cables will be connected from the system unit to different devices. The first cable you connect will be to a workstation or personal computer (PC). This workstation or PC will be your **system unit console**. Your system unit console will be a Twinaxial console.

DANGER

> **To prevent a possible electrical shock when adding or removing any devices to or from the system, ensure that the power cords for those devices are unplugged before the signal cables are connected or disconnected. If possible, disconnect all power cords from the existing system before you add or remove a device. (RSFTD203)**

Each cable that is shipped with your system unit is labeled with a part number on it; for example, **PN 59X1234**. The part number is used to identify which cable to install. You will be asked to find a cable with a specific part number.

Attention:

When you connect the cables, carefully align the cable connectors with the connectors or ports to ensure that you do not bend the pins.

Installing Twinaxial Console Cable

__ 1. Remove the back cover by doing the following:

    a. Remove the two screws A near the bottom of the system unit.

    b. Grip the upper corners of the cover.

Chapter 1. Getting Your 9401 Model 150 Installed and Running   **7**

Installing System Console Cables

    c. Pull the cover up and toward you.
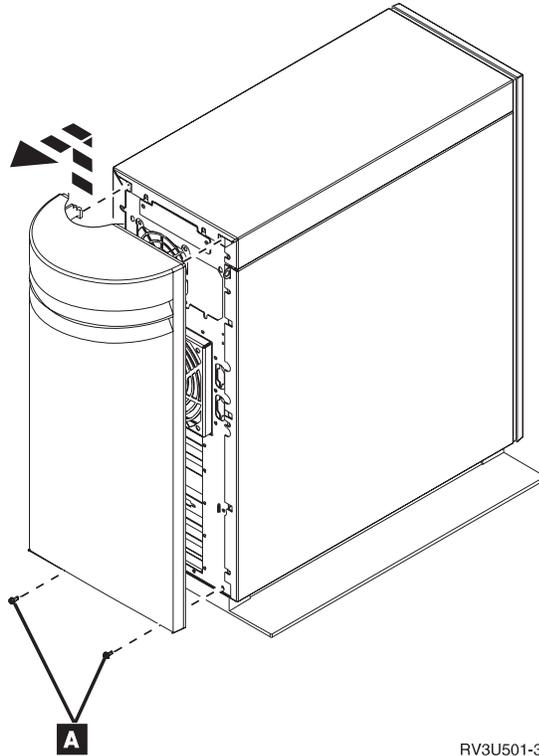
RV3U501-3

  __ 2. In the next step you will begin to install cables. The picture in this step gives you an overview of a system unit, a personal computer with a 5250 emulation adapter as the system console, and a modem for

electronic customer support.
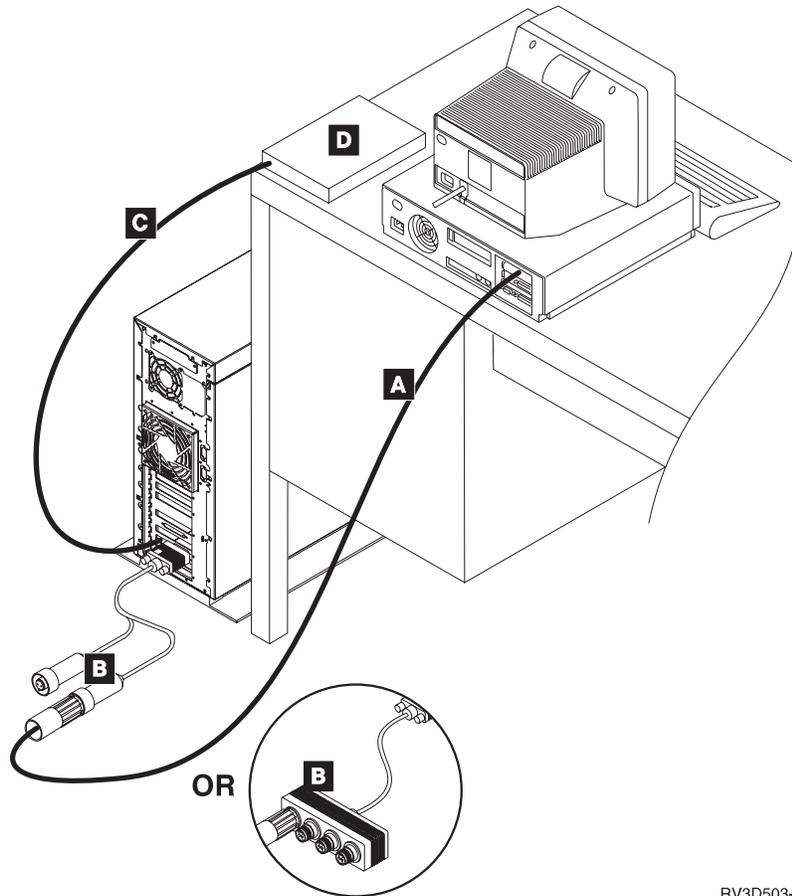
RV3D503-2

A	Twinaxial cable (**part number 4236482**) for the system console (workstation or personal computer).
B	You will have one of the following twinaxial attachment cables:

- 2-Port twinaxial attachment cable (**part number 44H7582**).
- 4-Port twinaxial attachment cable (**part number 72X5645**).

C	Communications cable for electronic customer support.
D	Modem for electronic customer support.

__ 3. Use one of the blank labels provided to label the 2-port, 44H7582, or the 4-port twinaxial attachment cable, 72X5645, **1B**.

__ 4. Connect the single end of the 2-port or 4-port twinaxial attachment cable to the adapter card connector **1B** . Push in the cable connector

Installing System Console Cables

and tighten the thumbscrews.

RZAFV500-0
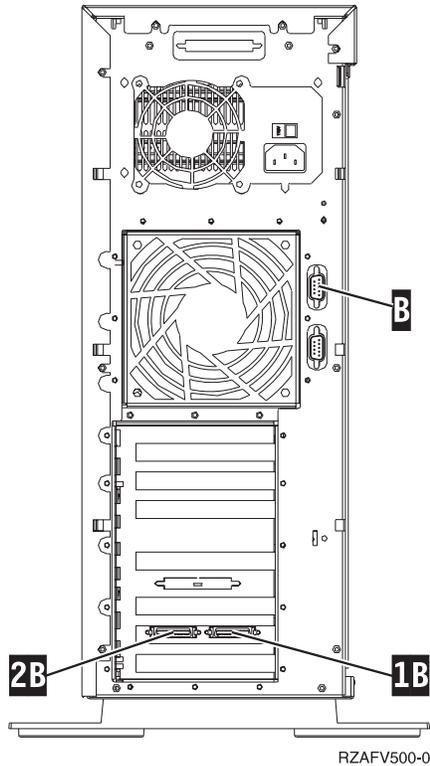
___ 5.

Attention:

If you **have set up** any workstations or personal computers (PCs) that will be connected to the system unit:

a. Power off all workstations or PCs.

b. Unplug all workstation or PC power cords from the electrical outlets.

c. Place the workstation or PC that will be used as the system console not more than 6 meters (20 feet) from the system unit.

If you **have not set up** the workstation or PC that will be used as your system console:

a. Place the workstation or PC not more than 6 meters (20 feet) from the system unit.

b. Follow the instructions that came with the workstation or PC to set it up.

c. Power off all workstations or PCs.

d. Unplug all workstation or PC power cords from the electrical outlets.

__ 6. Find the twinaxial cable (**part number 4236482**) that you will use to connect the system console (workstation or PC) to the 2-port or 4-port attachment.

__ 7. Label the cable, **system console cable**. Fit a twinaxial cable connector shield **D** (**part number 94X3698**) over the cable connector **C**, if one is not already there.

RV3D501-0
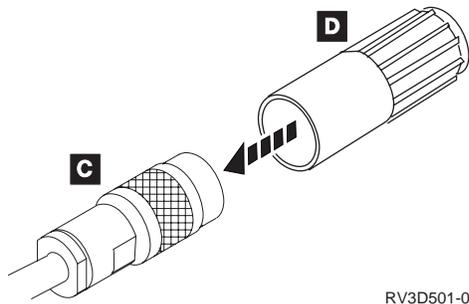
Note:

The shield helps prevent electrostatic discharge (ESD), if the electrical receptacle is not properly wired.

Installing System Console Cables

__ 8. Align the key **F** in **port 0** on the 2-port or 4-port twinaxial attachment connector with the slot **E** on the twinaxial cable.

RV4D137-0
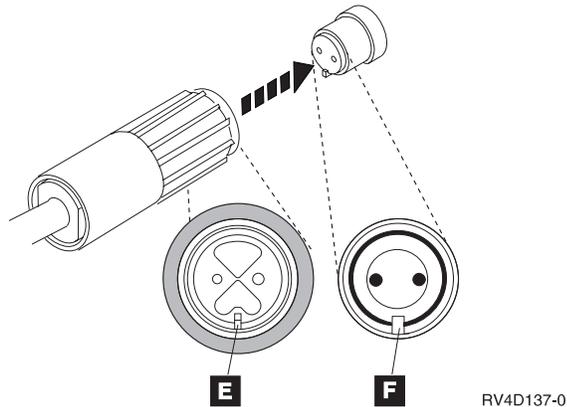
Push in, hold, and turn the outer ring until it is tight.

__ 9. To attach your system console:

    a. Place the system unit console (workstation or PC) not more than 6 meters (20 feet) from the system unit.

    b. Connect the other end of the cable to your system console.

> **Note:**
>
> The workstation address of your system console **must be set to 0**. To set the address, refer to the book that was shipped with your device.

Further information is provided later in these instructions on how to connect other workstations and printers.

__ 10. Did you receive a remote control panel cable, **part number 97H7591**, with your system?

Yes   **No**

↓   Go to "Installing Electronic Customer Support Cables" on page 14.

__ 11. Connect the remote control panel cable to your AS/400 system unit (Figure 1 on page 13), by doing the following:

a. Use one of the blank labels provided to label the remote control panel cable **MI port**.

b. Connect cable, **part number 97H7591**, to connector **B** labeled **MI** on the back of your system unit.

RZAFV500-0
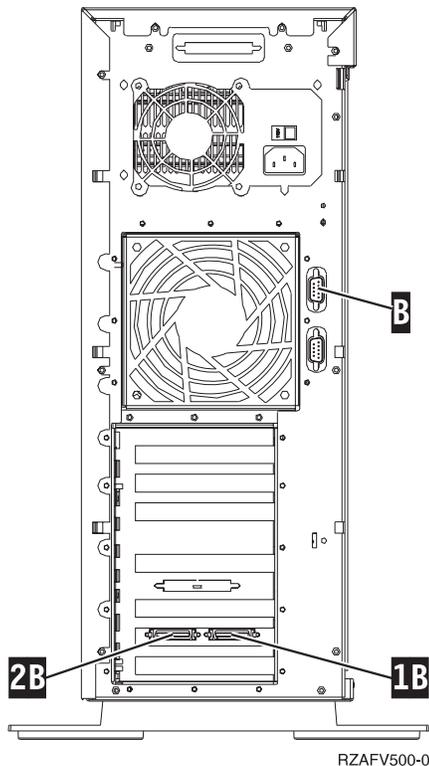
Figure 1. Where to Connect Remote Control Panel Cable

c. The other end of the Remote Control Panel cable (97H7591) will be connected to a serial port on a PC other than your Twinaxial PC or workstation. There will be information later in this book telling you when to connect remote control panel cable to a PC.

__ 12. Continue with "Installing Electronic Customer Support Cables" on page 14.

Installing Electronic Customer Support Cables

Electronic customer support allows you to access:
- The question-and answer (Q&A) database
- Local service information
- IBM product information
- Technical Information Exchange (TIE)
- Upgrade order information
- Problem analysis reporting and management

__ 1. Will you be using electronic customer support?

   Yes   No

   ↓   Go to "Installing Network Cables" on page 18.

   Find **one** of the following cables for electronic customer support:

   Part number 44H7486
   EIA 232/V.24, 6.1 Meters (20 feet)

   Part number 44H7489
   EIA 232/V.24, 6.1 Meters (20 feet) Germany

   Part number 44H7492
   EIA 232/V.24, 6.1 Meters (20 feet) Japan

__ 2. Label the cable **2B**.

__ 3. Connect the cable to the left connector on the adapter card in position **B** . Push in the cable connector and tighten the thumbscrews.

RZAFV500-0
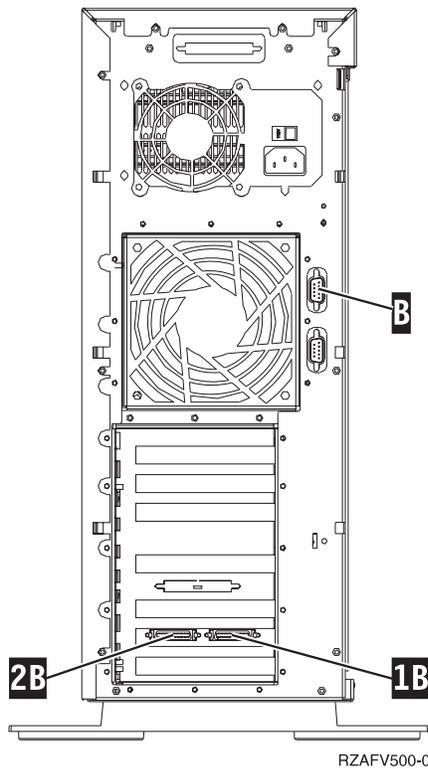
__ 4. Find the modem to be used for the electronic customer support and the installation documentation for that modem.

__ 5. Connect the cable from **2B** to your modem by doing the following:

   a. Align the cable connector with the connector on the modem.

   b. Push in the cable connector and tighten the thumbscrews.

   c. Ensure that the modem power cord is plugged into a power source.

__ 6. Is the modem an IBM 7852 Model 400 modem?

   Yes   No

   ↓   Go to step 7.

   You have completed the modem setup. Go to step **8** on page 17 .

__ 7. If your modem is not an IBM 7852 Model 400 modem, check the modem manual for the instructions to set the switches.

   a. Ensure that the modem is:

Installing Electronic Customer Support Cables

- Enabled to answer automatically
- Enabled to originate a call
- Set for bit-synchronous dialing (high-level data link control (HDLC))
- Set for HDLC protocol (with ASCII)

b. Ensure that the modem is set up so that the modem interface signals are controlled as shown in the following table.

Table 1. Modem Settings for Non-IBM 7852 Model 400 Modems

Circuit	Abbreviation	ITU-T	Pin	Comments
Transmit Data	XD	103	2	Controlled by DTE
Receive Data	RD	104	3	Received from DCE
Request to Send	RTS	105	4	Controlled by DTE
Ready for Sending	CTS/RFS	106	5	Received from DCE Follows RTS (circuit 105, pin 4)
Data Set Ready	DSR	107	6	Received from DCE Indicates connection is made
Data Terminal Ready	DTR	108	20	Controlled by DTE
Receive Line Signal Detect	CD	109	8	Not used
Data Signal Rate Select	RATE	111	23	Controlled by DTE
Transmit Signal Element Timing from DTE	DTE	113	24	Not used
Transmit Signal Element Timing from DCE	TCLK	114	15	Must be provided by DCE
Receive Signal Element Timing	RCLK	115	17	Must be provided by DCE
Calling Indicator	RI/CI	125	22	Must be provided by DCE
Loopback Maintenance Test	RLB	140	21	Controlled by DTE Must be enabled in DCE

Table 1. Modem Settings for Non-IBM 7852 Model 400 Modems (continued)

Circuit	Abbreviation	ITU-T	Pin	Comments
Local Loopback	LLB	141	18	Controlled by DTE Must be enabled in DCE
Test Indicator	TI	142	25	Not used
Channel Select	CS	126	11	Not used
Data Rate Indicate	DRI	112	12	Not used
Note:				
ITU-T = Telecommunication Standardization Sector (ITU-T) (formerly known as CCITT). DTE = Data terminal equipment (system) DCE = Data communications equipment (modem)				

Any other modem functions should remain as set by the modem manufacturer.

__ 8. Ensure that a telephone or telephone jack is installed for the electronic customer support modem.

Note:

Ensure that you have an analog line. Digital will not work.

__ 9. **DANGER**

> **To prevent a possible electrical shock during an electrical storm, do not connect or disconnect cables or station protectors for communications lines, display stations, printers, or telephones. (RSFTD003)**

Connect the **Line** socket on the modem to the telephone jack using a telephone cable.

__ 10. Continue with "Installing Network Cables" on page 18

Installing Network Cables

__ 1. You may have more cables to connect to adapter cards in the **back of your system unit**. These cables allow you to connect networks (token-ring or Ethernet). You have already connected a cable to the card in position **1B** . If you are using electronic customer support (ECS), you also have connected a cable to the card in position **2B** .

RV3U520-2
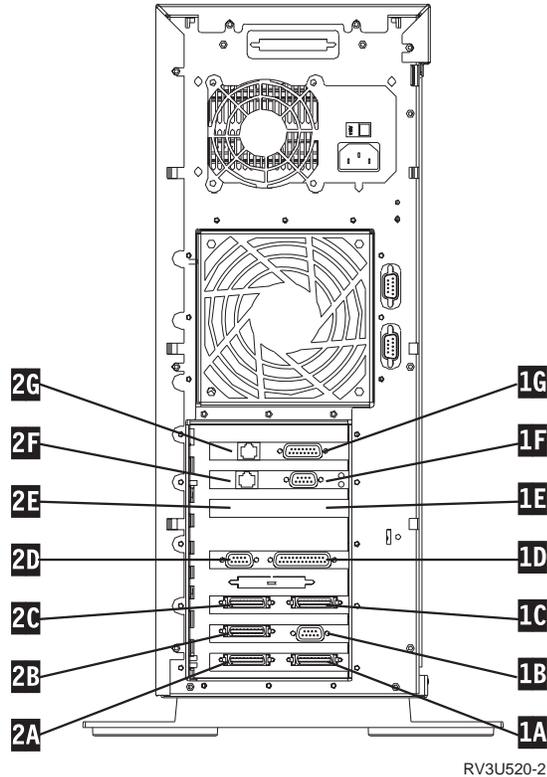
Note:

This picture is an example of a 9401 Model 150 configuration. The adapter cards on your system may have a different configuration based on the adapter cards that you ordered.

__ 2. Do you have more cables to connect?

Yes   No

↓   Go to step 7 on page 22.

__ 3. Look at the back of your system unit and the following table. Match the picture of the adapter card connectors in the first column with the connectors on the adapter cards **in the back of your system unit**.

Find the cable for that adapter card and go to the next step, 4 on page 22 , to install it.

Table 2. List of Cable Part Numbers

Adapter Card Connectors	Part Number of Cable to Connect to Adapter Card
RV3D506-0 **2720** - **Adapter Card Number**	**Cable that can be connected to a 2720 adapter card installed in 1C**: • **44H7582**, 2-port twinaxial attachment cable • OR • **72X5645**, 4-port twinaxial attachment cable (2270 processor prerequisite) **Cables that can be connected to a 2720 adapter card installed in 2C**: EIA-232/V.24 Non-Enhanced Communications Cables • **44H7480**, All others - 6.1 Meters (20 Feet) • **44H7482**, Germany - 6.1 Meters (20 Feet) • **44H7484**, Japan - 6.1 Meters (20 Feet) Japan EIA-232/V.24 Enhanced Communications Cables • **44H7486**, All others - 6.1 Meters (20 Feet) • **44H7489**, Germany - 6.1 Meters (20 Feet) • **44H7492**, Japan - 6.1 Meters (20 Feet) V.35 Communications Cable • **44H7495**, 6.1 Meters (20 Feet) V.36/RS449 Communications Cable • **44H7498**, 6.1 Meters (20 Feet) X.21 Communications Cable • **44H7501**, 6.1 Meters (20 Feet)

Installing Network Cables

Table 2. List of Cable Part Numbers (continued)

Adapter Card Connectors	Part Number of Cable to Connect to Adapter Card
RV3D507-0 **2721** - **Adapter Card Number**	**Cables that can be connected to either connector on the 2721 adapter card installed in position 1A, 2A, 1C, or 2C:** EIA-232/V.24 Non-Enhanced Communications Cables • **44H7480**, All others - 6.1 Meter (20 Foot) • **44H7482**, Germany - 6.1 Meter (20 Foot) • **44H7484**, Japan - 6.1 Meter (20 Foot) Japan EIA-232/V.24 Enhanced Communications Cables • **44H7486**, All others - 6.1 Meters (20 Feet) • **44H7489**, Germany - 6.1 Meters (20 Feet) • **44H7492**, Japan - 6.1 Meters (20 Feet) V.35 Communications Cable • **44H7495**, 6.1 Meters (20 Feet) V.36/RS449 Communications Cable • **44H7498**, 6.1 Meters (20 Feet) X.21 Communications Cable • **44H7501**, 6.1 Meters (20 Feet)
RV3D509-0 **2723** - **Adapter Card Number**	**One cable can be connected to a 2723 adapter card installed position A, C, F, or G. Attention:** If you have a 2723 adapter card and if you are going to use an RJ45 cable to connect to your Ethernet network, find the short RJ45 filter cable (part number 75G2865) and connect it to the adapter card RJ45 connector first. Then connect the longer cable to the short cable. • RJ45 Ethernet cable (position 2A, 2C, 2F, or 2G). The RJ45 Ethernet network cable is not supplied with the adapter card. • Ethernet cable (position 1A, 1C, 1F, or 1G). The Ethernet network cable is not supplied with the adapter card.
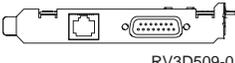
Table 2. List of Cable Part Numbers (continued)

Adapter Card Connectors	Part Number of Cable to Connect to Adapter Card

RV3D508-0
 	
2724 - **Adapter Card Number**
	One cable can be connected to a 2724 adapter card installed position A, C, F, or G. **Attention:** If you have a 2724 adapter card and if you are going to use an RJ45 cable to connect to position F or G, find the short RJ45 filter cable (part number 75G2865) and connect it to the adapter card RJ45 connector first. Then connect the longer cable to the short cable.
	
	• RJ45 Token-Ring cable (position 2A, 2C, 2F, or 2G).
	
	  The RJ45 Token-Ring network cable is not supplied with the adapter card.
	
	• Token-Ring cable (position 1A, 1C, 1F, or 1G).
	
	  The 2.44 mm (6 foot) token-ring cable (part number 6339098) is supplied with the adapter card.
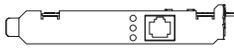
2838 - **Adapter Card Number**	**One RJ45 cable can be connected to a 2838 adapter card installed in position F or G**. RJ45 Ethernet network cable is not supplied with the adatper card.
285A - **Integrated NetFinity Server Bridge Card Number**	When installing Windows NT Operationg System, connect the extension cable (PN 45H2433) to the larger connector on the 285A Integrated NetFinity Server Bridge card. If you have the keyboard and mouse cables (PN 44H8677), connect them to the extension cable. If you have a video extension cable (PN 44H8676), connect it to the smaller connector on the 285A card. Connect the video cable from the terminal to the smaller connector on the 285A card or the extension cable.
2852 or 2868 (card number 2850) - **Integrated NetFinity Server Card Number**	No cables to connect.
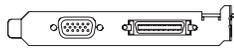
Installing Network Cables

  __ 4. Label the cable; for example, **1C** for a card in position C and connector 1.

RV3U520-2
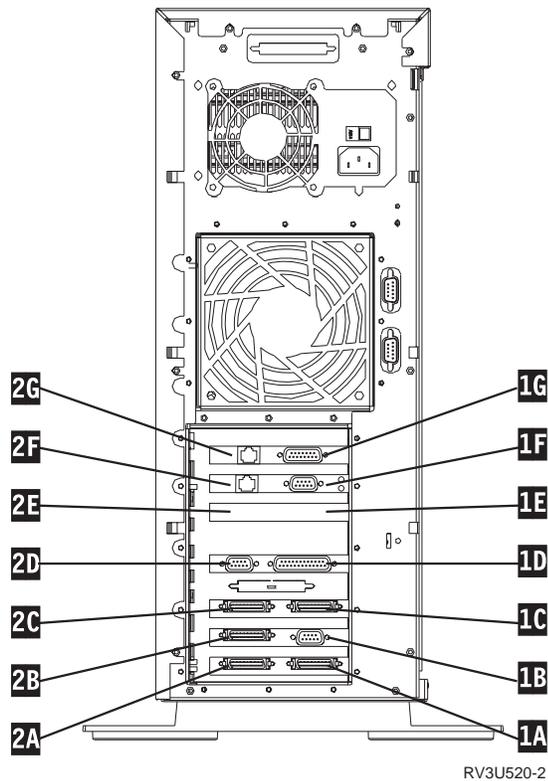
  __ 5. Push in the cable connector until it clicks.

  __ 6. Connect the other end of the cable to a network or a device.

Note:

You may have more cables to connect to adapter cards in the back of your system unit. If you do, use the table in Step 3 on page 19 and then connect the cable. Do this for all cables that you have.

  __ 7. If you have a voltage switch **A** on the back of your system unit, select the voltage range you will use for your system unit. If a label

covers the voltage switch, you can remove it.

RV3U537-2

⚠️
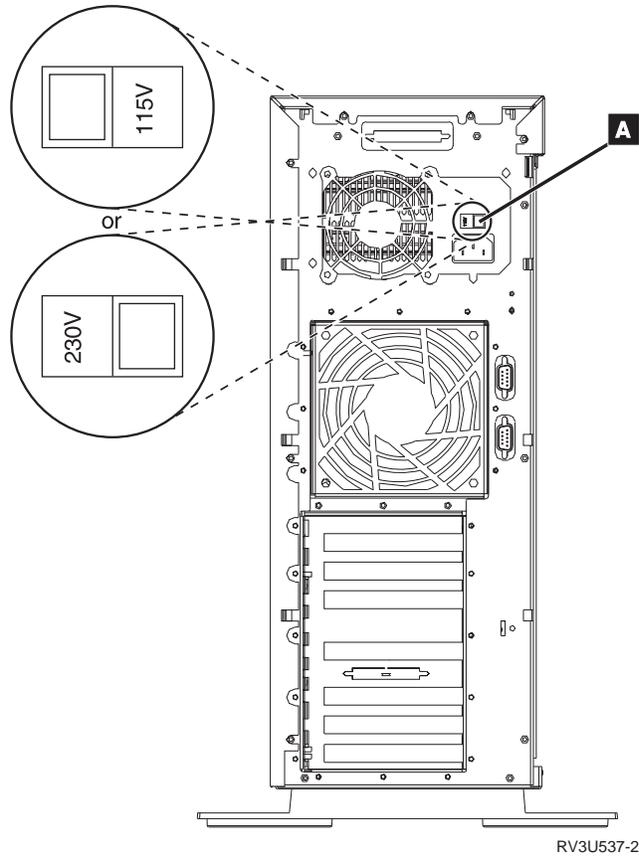
Attention:

Failing to select the proper voltage will cause damage to your hardware.

For 100-127 VAC input, set to 115V.

For 200-240 VAC input, set to 230V.

__ 8. Find the power cord that you unpacked with the system unit.

a. Locate the power plug connector **A** on the back of the system unit.

b. Remove the label that covers the power plug connector.

Installing Network Cables

   c. Plug the power cord B into the system unit.

RV3D500-0

Attention:

Do not plug in or power on your AS/400 9401 system unit at this time.

__ 9. Install the system unit back cover by doing the following:

RV3U539-2

a. Grip the upper corners of the cover.
b. Push the cover in and down.
c. Install the two screws near the bottom of the system unit.

__ 10. Continue with "Learning About the System Unit Control Panel Push Buttons".

Learning About the System Unit Control Panel Push Buttons

1. Go to the front of your AS/400 9401 system unit. Open the control panel door.

   You will be using the push buttons on the control panel. Familiarize yourself with the control panel.

Using the System Unit Control Panel Push Buttons

RV3U514-1

A   Function/Data display

B   Select push buttons

C   System attention light

D   Processor active light

E   Enter push button

F   Power push button

If in the future you attempt to power off the system unit by pressing the Power push button, a **0?** may appear. To cancel the power off operation, press any other push button on the control panel. To continue powering off the system unit, press the Power push button

again. The Power On light blinks as the system is being powered off. When power off is complete, the light goes off.

G Power On light

2. Continue with "Starting Your Twinaxial Workstation or PC".

Starting Your Twinaxial Workstation or PC

This step contains instructions on how to start your twinaxial workstation or personal computer (PC).

DANGER

> **An electrical outlet that is not correctly wired could place hazardous voltage on metal parts of the system or the products that attach to the system. It is the customer's responsibility to ensure that the outlet is correctly wired and grounded to prevent an electrical shock. (RSFTD201)**

__ 1. Plug the workstation or PC power cord into an electrical outlet.

Attention:

Do not plug in or power on your AS/400 9401 system unit at this time.

__ 2. Power on your workstation or PC.

__ 3. When performing an initial program load (IPL) on a personal computer, continue the PC IPL until the terminal emulator screen appears.

For more information about your workstation or personal computer, see the documentation that came with the device.

__ 4. Continue with "Preparing for IPL" on page 28.

Preparing for IPL

> **DANGER**
>
> **An electrical outlet that is not correctly wired could place hazardous voltage on metal parts of the system or the products that attach to the system. It is the customer's responsibility to ensure that the outlet is correctly wired and grounded to prevent an electrical shock. (RSFTD201)**

__ 1. Plug the system unit power cord into an electrical outlet.

__ 2. Look at the Function/Data display on the control panel.

    a. Does a **B N** appear in the Function/Data display?

RV3U515-0
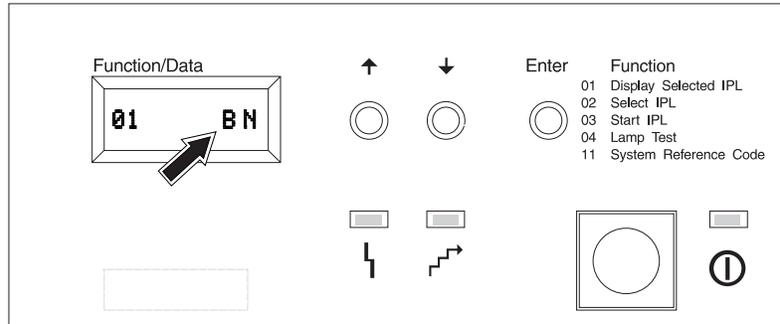
      No   **Yes**

      ↓   Go to Step 3 on page 29.

    b. Is the Function/Data display lit?

      Yes   **No**

      ↓   Before calling your hardware service representative, do the following:

          • Confirm that the electrical outlet is functioning by plugging in a lamp or other simple device.

          • Ensure that the power cord is securely plugged into the system unit and electrical outlet.

c. Press the Up or Down select push button until **02** appears in the Function/Data display.

RV3U516-0
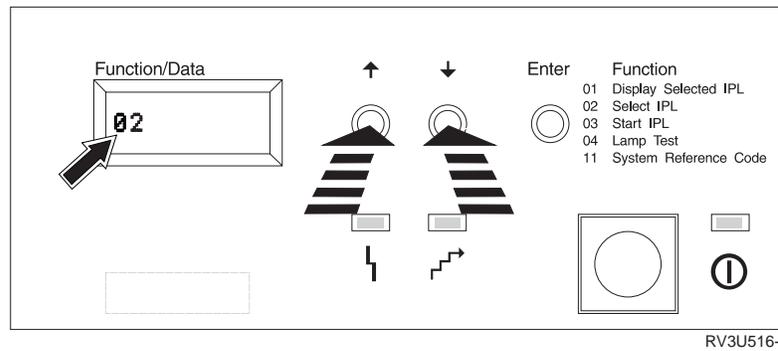
d. Press the Enter push button on the control panel.

e. Press the Up or Down select push button until **B N** appears in the Function/Data display.

RV3U517-0
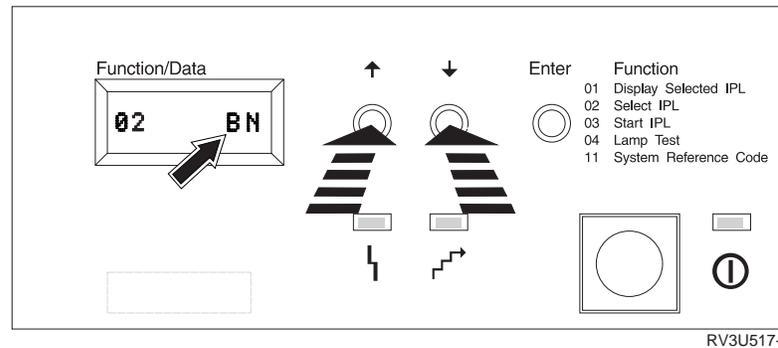
f. Press the Enter push button on the control panel.

   Note: This saves the IPL type and mode.

g. Go to Step 4.

__ 3. Press the Up or Down select push button until **02** appears in the Function/Data display.

__ 4. Press the Enter push button twice. **02** and **V** appear in the Function/Data display.

__ 5. Press the Up or Down select push button until the display is changed to **02** and **S**.

__ 6. Press the Enter push button.

> **Note:** This changes the IPL to *slow*, which will run all diagnostics on your system (for this IPL only).

__ 7. Press the Up or Down select push button until **01** appears in the Function/Data display.


```
Function/Data                ↑      ↓      Enter    Function
                                                    01   Display Selected IPL
                                                    02   Select IPL
       01                                           03   Start IPL
                                                    04   Lamp Test
                                                    11   System Reference Code
```

RV3U518-0
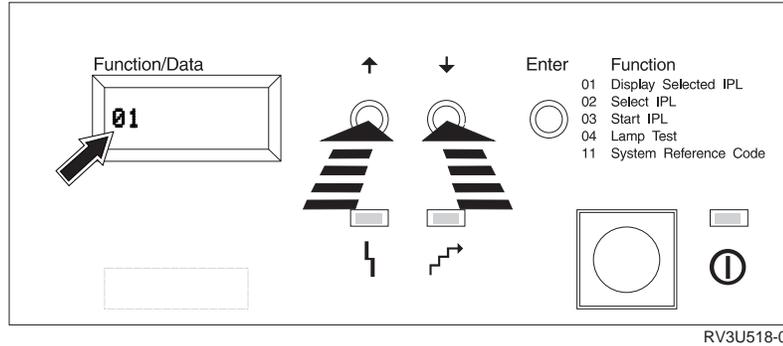
__ 8. Verify the IPL type, mode, and speed by doing the following:

   a. Press the Enter push button. **01** and **B N** appear in the Function/Data display.

   b. Press the Enter push button. **01** and **S** appear in the Function/Data display.

__ 9. Press the Power push button that is located on the AS/400 control panel.

> **Note:**
>
> The system takes approximately 15 to 20 minutes to power on and complete an IPL. When the IPL is complete, the Sign On display should appear on your system console.

While your system is performing the IPL, the following information tells you how to get online help on entering commands on the AS/400. Some of the steps you will do after the IPL completes require you to enter control language (CL) commands on the AS/400 command line. You use CL commands to request AS/400 system functions.

To see online help information about a command, do one of the following:

- Type a command on a command line and press F1 (Help) to see information about the command.
- Press F4 (Prompt) to see a list of commands sorted by major command groups.

__ 10. Continue with "Signing On and Setting System Values".

Signing On and Setting System Values

__ 1. Did the Sign On display appear on your system console?
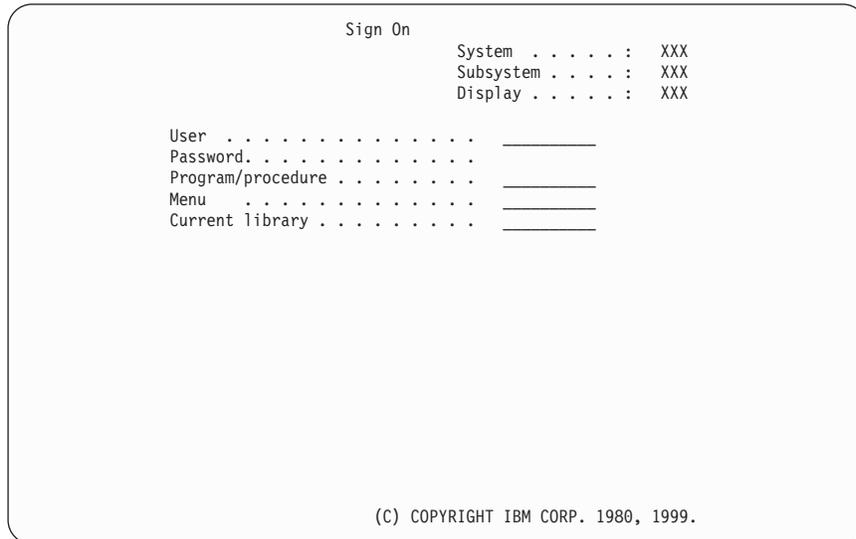
```
                           Sign On
                                       System  . . . . . :   XXX
                                       Subsystem . . . . :   XXX
                                       Display . . . . . :   XXX

              User  . . . . . . . . . . . . .   _____
              Password. . . . . . . . . . . .
              Program/procedure . . . . . . . .   _____
              Menu  . . . . . . . . . . . . .   _____
              Current library . . . . . . . .   _____












                           (C) COPYRIGHT IBM CORP. 1980, 1999.
```

Yes   No

↓   Go to the *Handling and Reporting System Problems* section of the *Basic System Operation, Administration, and Problem Handling*, SC41-5206-03 book, which was shipped with your system. Then return here and continue with the next step.

__ 2. Sign on to your AS/400 system.

a. In the *User* field, type **QSECOFR**

b. In the *Password* field, type **QSECOFR**. The password does not show on the display as you type it.

Signing On and Setting System Values

```
                          Sign On
                                    System  . . . . . :   XXX
                                    Subsystem . . . . :   XXX
                                    Display . . . . . :   XXX

            User  . . . . . . . . . . . . . .   QSECOFR___
            Password. . . . . . . . . . . .
            Program/procedure . . . . . . . .   _____
            Menu    . . . . . . . . . . . . .   _____
            Current library . . . . . . . . .   _____












                          (C) COPYRIGHT IBM CORP. 1980, 1999.
```

c. Press the Enter key.

!

Attention:

Often the Enter key is mapped to the right Ctrl key, unless
you change your keyboard mapping. If the Enter key does
not seem to work, try pressing the right Ctrl key instead.

The *QSECOFR* password has been set to expire when your system
ships.

The Sign-on Information display is shown.

```
                         Sign-on Information
                                               System:   XXX
    Password has expired.  Password must be changed to continue sign-on
    request.
```
```
    Press Enter to change your password.

    F3=Exit sign-on request
    (C) COPYRIGHT IBM CORP. 1980, 1999.
```

d. Press the Enter key. The Change Password display is shown.

```
                         Change Password

    Password last changed . . . . . . . . . . :  04/03/98

    Type choices, press Enter.

      Current password  . . . . . . . . . . .

      New password  . . . . . . . . . . . . .

      New password (to verify)  . . . . . . .
```
```
    F3=Exit         F12=Cancel
```

e. In the *Current password* field, type **QSECOFR**

f. In the *New password* field, and the *New password (to verify)* field, type a new password. The new password must follow these rules:
   - Start with an alphabetic character
   - Be up to 10 characters in length
   - Contain any combination of alphabetic characters and numeric characters. Some of the special characters are supported as well.

   Be sure to write the new password down and keep it in a safe place.

g. Did the AS/400 Main Menu appear?

```
MAIN                        AS/400 Main Menu
                                                      System: XXX
Select one of the following:

    1. User tasks
    2. Office tasks
    3. General system tasks
    4. Files, libraries, and folders
    5. Programming
    6. Communications
    7. Define or change the system
    8. Problem handling
    9. Display a menu
   10. Information Assistant options
   11. Client Access/400 tasks

   90. Sign off

Selection or command
===> _____
    _____
F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
F23=Set initial menu
(C) COPYRIGHT IBM CORP. 1980, 1999.
```

Yes   No

↓   Informational messages may appear on the Display
Messages display. Press the Enter key.

Did the AS/400 Main Menu appear?

Yes   No

↓   Go to the *Handling and Reporting System Problems*
section of the *Basic System Operation, Administration,
and Problem Handling*, SC41-5206-03 book, which was
shipped with your system. Then return here and
continue.

h. Check the control panel on the front of the system unit. (See picture
in step 1 on page 25.) Is the System Attention light on?

No   Yes

↓   Go to the *Handling and Reporting System Problems* section of
the *Basic System Operation, Administration, and Problem
Handling*, SC41-5206-03 book, which was shipped with your
system. Then return here and continue with next step.

__ 3. This step contains instructions on how to set the system break mode,
date, and time.

a. Type the following command:

chgmsgq qsysopr *break sev(65)

This command puts the system operator's message queue into break mode. Break mode causes any messages that normally go to the operator's message queue to be displayed immediately.

b. Press the Enter key.

Any messages that are currently in the queue are displayed.

```
                         Display Messages
                                           System:   XXX
Queue . . . . . :   QPADEV0011         Program . . . . :   *DSPMSG
  Library . . . :     QSYS               Library . . . :
Severity  . . . :   00                  Delivery  . . . :   *NOTIFY

Type reply (if required), press Enter.
  From  . . . :   SMITH          04/17/98   14:35:16
  I would like to rebuild NETFIN.  Any problem, please call me.
     Thanks, Mike








F3=Exit             F11=Remove a message           F12=Cancel
F13=Remove all      F16=Remove all except unanswered    F24=More keys
```

c. If the Display Messages display is shown, press F3 (Exit) to return to the AS/400 Main Menu.

d. Type the following command to set the date on the system (qdate). Ensure that you enter the correct date in the correct format.

chgsysval sysval(qdate) value('xxxxxx')

You can type the date using one of four different formats. For example, the date for August 28, 1998, can be entered as 980828, 280898, 082898, or 241 (Julian format).

e. Press the Enter key.

f. Type the following command to set the time on the system (qtime). Be sure to enter the time in accordance with the 24-hour clock. For example, 4:30 p.m., should be entered as 163000.

chgsysval sysval(qtime) value('xxxxxx')

g. Press the Enter key.

The AS/400 Main Menu appears.

Signing On and Setting System Values

```
MAIN                    AS/400 Main Menu
                                                        System: XXX
Select one of the following:

     1. User tasks
     2. Office tasks
     3. General system tasks
     4. Files, libraries, and folders
     5. Programming
     6. Communications
     7. Define or change the system
     8. Problem handling
     9. Display a menu
    10. Information Assistant options
    11. Client Access/400 tasks

    90. Sign off

Selection or command
===>_____

_____
F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
F23=Set initial menu
(C) COPYRIGHT IBM CORP. 1980, 1999.
```

h. Continue with "Backing Up Your System".

Backing Up Your System

Attention:

The tape that you create in the next two steps becomes your **master** copy and should be kept in a safe place, perhaps away from your place of business. You should always create a copy of this tape to be used as needed in your place of business.

IBM strongly recommends that you save your system to tape at this time. This tape provides you with system integrity should you need to recover from a failure. Periodically saving your system data is critical. IBM also recommends that you purchase an IBM DC9250 2.5GB 1/4-inch data cartridge tape (16G8437) or equivalent.

For additional protection against a media problem, it is highly recommended that either you do two saves of your system or you make a copy of the tape. An important part of a good save procedure is to have more than one set of tapes. For information on rotating tapes, go to Chapter 12 and find the section, *How to Manage Your Tapes*.

Note:

This procedure will take at least 1.5 hours to complete.

__ 1. Find the blank tape cartridge. This is the tape that you will use for saving the system.

The following steps are intended to help you save your system information for recovery purposes; they are not intended to be used as your backup and recovery strategy. You must create your own backup and recovery strategy. For information on how to maintain your system and protect it against disaster, go to the *AS/400e Information Center CD-ROM*or the following Web site:

`www.as400.ibm.com/infocenter`

If a system failure results in a loss of system information, use the backup tape to load the information back into the system. Refer to ″Selecting the Right Recovery Strategy″ in the *Backup and Recovery* book, to determine which recovery checklist you need to use. The type of failure you had and your system configuration are factors you need to consider when selecting the correct recovery checklist. For a complete system recovery, refer to ″Recovering Your System After a Complete System Loss″ in the *Backup and Recovery* book.

__ 2. Do the following to initialize the tape:

a. Label the tape that came with your system **SAVT01**.

b. Press the push button to open the door on the tape unit.

Backing Up Your System

    c. Insert the tape until it stops and close the door on the tape unit.
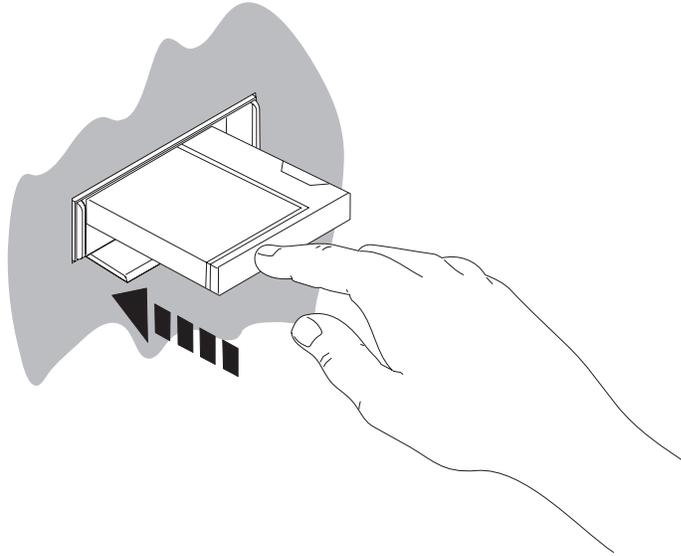
RV3U525-1

Note:

To set the tension, the tape unit rewinds the tape. This may take a few minutes.

You can proceed to the next step. You do not need to wait for the tape unit to stop.

    d. On the command line of the AS/400 Main Menu, type **3** (*General system tasks*) and press the Enter key.

```
 MAIN                          AS/400 Main Menu
                                                    System:  XXX
 Select one of the following:

      1. User tasks
      2. Office tasks
      3. General system tasks
      4. Files, libraries, and folders
      5. Programming
      6. Communications
      7. Define or change the system
      8. Problem handling
      9. Display a menu
     10. Information Assistant options
     11. Client Access/400 tasks

     90. Sign off

 Selection or command
 ===> 3_____
 _____
 F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
 F23=Set initial menu
 (C) COPYRIGHT IBM CORP. 1980, 1999.
```

e. The General System Tasks menu appears.

f. On the command line of the General System Tasks menu, type **8**
    (*Device operations*) and press the Enter key.

```
 SYSTEM                    General System Tasks
                                                    System: XXX
 Select one of the following:

      1. Jobs
      2. Status
      3. Display system operator messages
      4. Messages
      5. Files, libraries, and folders
      6. Save
      7. Restore
      8. Device operations
      9. Communications
     10. Security

     60. More system task options


 Selection or command
 ===> 8_____
 _____
 F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
 F16=AS/400 Main menu
 (C) COPYRIGHT IBM CORP. 1980, 1999.
```

g. The Device Operations menu appears.

h. On the command line of the Device Operations menu, type **4** (*Tape*)
    and press the Enter key.

Backing Up Your System

```
 DEVICE                     Device Operations
                                              System: XXX
 Select one of the following:

       1. Work with device status
       2. Work with displays
       3. Printer
       4. Tape
       5. Diskette
       6. Configure PC connections
       7. Optical

      70. Related commands




 Selection or command
 ===> 4_____
 _____
 F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
 F16=AS/400 Main menu
 (C) COPYRIGHT IBM CORP. 1980, 1999.
```

  i. The Tape menu appears.

  j. On the command line of the Tape menu, type **2** (*Initialize a tape*) and press the Enter key.

```
 TAPE                       Tape
                                              System: XXX
 Select one of the following:

       1. Display tape information
       2. Initialize a tape
       3. Print contents of a tape
       4. Save
       5. Restore
       6. Work with tape device status
       7. Verify tape

      70. Related commands




 Selection or command
 ===> 2_____
 _____
 F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
 F16=AS/400 Main menu
```

  k. The Initialize Tape display appears.

```
                        Initialize Tape (INZTAP)

  Type choices, press Enter.

  Device . . . . . . . . . . . . .  _____    Name
  New volume identifier  . . . . .  *NONE        Character value, *NONE...
  New owner identifier . . . . . .  *BLANK
  Volume identifier  . . . . . . .  *MOUNTED     Character value, *MOUNTED
  Check for active files . . . . .  *YES         *YES, *NO, *FIRST
  Tape density . . . . . . . . . .  *DEVTYPE     *DEVTYPE, *CTGTYPE, *QIC120...
  Code . . . . . . . . . . . . . .  *EBCDIC      *EBCDIC, *ASCII
  End of tape option . . . . . . .  *REWIND      *REWIND, *UNLOAD
  Clear  . . . . . . . . . . . . .  *NO          *NO, *YES




                                                                   Bottom
   F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
   F24=More keys
```

l. Type the following information:

```
Device . . . . . . . . . . . . . tap01
New volume identifier  . . . . . savt01
         .
         .
         .
Check for active files . . . . . *no
         .
         .
         .
```

```
                        Initialize Tape (INZTAP)

  Type choices, press Enter.

  Device . . . . . . . . . . . . .  tap01____    Name
  New volume identifier  . . . . .  savt01       Character value, *NONE...
  New owner identifier . . . . . .  *BLANK
  Volume identifier  . . . . . . .  *MOUNTED     Character value, *MOUNTED
  Check for active files . . . . .  *no          *YES, *NO, *FIRST
  Tape density . . . . . . . . . .  *DEVTYPE     *DEVTYPE, *CTGTYPE, *QIC120...
  Code . . . . . . . . . . . . . .  *EBCDIC      *EBCDIC, *ASCII
  End of tape option . . . . . . .  *REWIND      *REWIND, *UNLOAD
  Clear  . . . . . . . . . . . . .  *NO          *NO, *YES




                                                                   Bottom
   F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
   F24=More keys
```

m. Leave all the other values as they appear on the display.

n. Press the Enter key.

o. The tape unit rewinds the tape, which takes approximately one minute. The light on the tape unit turns off.

p. The Tape menu appears with the following message:

Volume SAVT01 prepared for operation with owner ID *BLANK.

```
 TAPE                          Tape
                                              System: XXX
 Select one of the following:

     1. Display tape information
     2. Initialize a tape
     3. Print contents of a tape
     4. Save
     5. Restore
     6. Work with tape device status
     7. Verify tape

    70. Related commands




 Selection or command
 ===>  _____
       _____
 F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
 F16=AS/400 Main menu
 Volume SAVT01 prepared for operation with owner ID *BLANK.
```

__ 3. Save the entire system on tape by performing the following:

a. On the command line of the Tape menu, type **4** (*Save*) and press the Enter key.

```
 TAPE                          Tape
                                              System: XXX
 Select one of the following:

     1. Display tape information
     2. Initialize a tape
     3. Print contents of a tape
     4. Save
     5. Restore
     6. Work with tape device status
     7. Verify tape

    70. Related commands




 Selection or command
 ===> 4_____
      _____
 F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
 F16=AS/400 Main menu
 Volume SAVT01 prepared for operation with owner ID *BLANK.
```

b. The Save menu appears.

```
SAVE                         Save
                                                      System: XXX
Select one of the following:

  Save Data
      1. Files
      2. Libraries
      3. Documents and folders
      4. Programs
      5. Other objects
      6. Changed objects only
      7. Licensed programs
      8. Security data
      9. Storage
     10. Configuration
     11. Objects in directories
                                                         More...
Selection or command
===>  _____
      _____
F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
F16=AS/400 Main menu
```

Additional options are often available on the next page of a
display. More... in the lower, right corner of a display indicates
that additional pages of that display are available. To see more
options, page down to the next display.

Note:

The keyboard sequence to page down may differ among
workstation display types. Use the documentation that
came with your display if you need to know how to page
down.

c. On the command line of the Save menu, type **21** (*Entire system*)
and press the Enter key.

Backing Up Your System

```
SAVE                            Save
                                                    System: XXX
Select one of the following:

  Save System and User Data
     21. Entire system
     22. System data only
     23. All user data

  Save Document Library Objects
     30. All documents, folders, and mail
     31. New and changed documents, new folders, all mail
     32. Documents and folders
     33. Mail only
     34. Calendars


                                                         More...
Selection or command
===> 21_____
_____
F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
F16=AS/400 Main menu
```

d. The Save the Entire System display appears.

   This display explains what happens during the save process.

```
                       Save the Entire System
                                                  System: XXX

    What this option will do
    o End all subsystems
    o Save the Licensed Internal Code
    o Save the operating system
    o Save the security data
    o Save the device configuration objects
    o Save all user libraries (including libraries for licensed programs)
    o Save all documents and folders
    o Save all distribution and mail objects
    o Save all directories
    o Start the controlling subsystem

    What this option will not do
    o Save the contents of job queues, output queues, or data queues that
    exist on the system


Press Enter to continue.

F3=Exit   F12=Cancel

(C) COPYRIGHT IBM CORP. 1980, 1999.
```

e. After reading this information, press the Enter key.
f. The Specify Command Defaults display appears.

```
                         Specify Command Defaults
                                          SYSTEM: XXX

  Type choices, press Enter.

    Tape devices  . . . . . . . . . . TAP01___   Names
                                      _____
                                      _____
                                      _____

    Prompt for commands  . . . . . . . Y         Y=Yes, N=No

    Check for active files . . . . . . Y         Y=Yes, N=No

    Message queue delivery . . . . . . *BREAK    *BREAK, *NOTIFY

    Start time . . . . . . . . . . . . *CURRENT  *CURRENT, time

    Vary off network servers . . . . . *ALL      *NONE, *ALL, *LANSERVER,
                                       _____   *NETWARE, *BASE, *AIX
                                       _____   *WINDOWSNT

                                                            More...
      F3=Exit   F12=Cancel
```

g. Change the following information:

   `Vary off network servers . . . . . ` **`*ALL`**

h. Page down to the next display. The following display appears:

```
                       Specify Command Defaults

  Type choices, press Enter.

    Unmount file systems . . . . . Y         Y=Yes, N=No

    Print system information . . . Y         Y=Yes, N=No

   Use system reply list . . . . . N         Y=Yes, N=No
```

i. Change the following information:

   `Unmount file systems. . . . . ` **`Y`**
   `Print system information. . . ` **`Y`**

j. Press the Enter key.

> **Note:**
>
> Some of the following steps may take several minutes to complete. The **X** on the bottom, left side of the display means that the command is processing.
>
> During the save operation, numerous displays for saving various AS/400 objects will be shown to you. The default values have been filled in for you. You will only need to press Enter to continue the save operation.
>
> If, during the save operation, your workstation screen goes blank, simply push any key other than Enter or the spacebar to make the display visible again.

k. The End Subsystem (ENDSBS) display appears. Press the Enter key.

l. The Save System (SAVSYS) display appears. Press the Enter key twice.

m. The Save Library (SAVLIB) display appears. Press the Enter key.

n. The Save Document Library Object (SAVDLO) display appears. Press the Enter key twice.

o. The Save Object (SAVOBJ) display appears. Press the Enter key.

p. The Start Subsystem (STRSBS) display appears. Press the Enter key.

q. The Save display appears with the following message:

    `Save or restore operation completed successfully.`

> **Attention:**
>
> Print the job log. The job log contains information about the save operation. Use the job log to verify that all objects were saved. Type one of the following:
>
> **DSPJOBLOG * *PRINT**
>
> Or
>
> **SIGNOFF *LIST**

r. Remove the tape when the light on the tape unit turns off. Store the tape in a secure, accessible location. One copy of this tape should be kept onsite, and another copy should be kept offsite in case some unexpected event occurs at your site.

s. Press F3 (Exit) to return to the AS/400 Main Menu.

t. Continue with "Setting Up Electronic Customer Support" .

Changing the Modem Country Identifier

1. On the AS/400 Main menu, type

   `chgneta`

2. When the *Change Network Attributes* screen appears, use the page up (↑) or page down (↓) key to page to the bottom of the last screen. Place your cursor on the *Modem country ID* line and select **F4** (Prompt).

3. When the *Print Key Output* screen appears, type the two-character ID for your country.

4. Press **Enter** twice.

5. When the AS/400 Main menu appears, the following confirmation message will be shown:

   `Network attribute MDMCNTRYID changed to X X ..................`

Setting Up Electronic Customer Support

__ 1. Will you be using electronic customer support?

   Yes   No

   ↓   Go to "Connecting Twinaxial Cables" on page 59.

   The following steps contain information and instructions on how to set up and access electronic customer support.

   The electronic customer support connects your AS/400 to the IBM service system. It allows remote hardware and software problem analysis, reporting, and management.

__ 2. Set up the electronic customer support information by performing the following:

   a. Make sure that you are signed on as user **QSECOFR**.

   b. Did you install Operations Console cable, **PN 97H7557**?

      Yes   No

      ↓   Go to step 2.u on page 48.

   c. Type **WRKCFGSTS** on the AS/400 command line.

   d. Press the Enter Key.

   e. Type ***LIN**.

   f. Press the Enter key twice.

g. Type **8** (Work with description) in the *Opt* column next to QESLINE.

h. Press the Enter key.

i. Type **2** (Change) next to the Resource name **QESLINE**.

j. Press the Enter key.

k. Change the Resource name from **CMN01** t o **CMN02**.

l. Press the Enter key. The message "Description for line QESLINE" appears.

m. Press the Enter key again.

n. Type **8** (Work with description) in the *Opt* column next to the QTILINE.

o. Press the Enter key.

p. Type **2** (Change) next to the Resource name **QTILINE**.

q. Press the Enter key.

r. Change the Resource name from **CMN01** to **CMN02**.

s. Press the Enter key. The message "Description for line QTILINE" appears.

t. Press F3 twice to return to the AS/400 Main menu.

u. Power on the modem that is connected to the electronic customer support feature line.

v. On the command line of the AS/400 Main Menu, type the following and press the Enter key:

    call qesphone

w. The Change Data Area (CHGDTAARA) display appears.

```
                     Change Data Area (CHGDTAARA)

 Type choices, press Enter.

 Data area specification:
   Data area  . . . . . . . . . > QESTELE       Name, *LDA, *GDA, *PDA
   Library  . . . . . . . . . . >   QUSRSYS     Name, *LIBL, *CURLIB
   Substring specifications:
   Substring starting position  . > 001         1-2000, *ALL
   Substring length . . . . . . . > 32          1-2000
 New value  . . . . . . . . . . > '                              '




                                                                 Bottom

 F3=Exit    F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
 F24=More keys
```

__ 3. Are you installing this system in the United States?

    Yes   No

↓ Call your service representative for the IBM service support telephone number.

Go to step 4 of this procedure.

The Change Data Area (CHGDTAARA) display may have one of the IBM service support numbers in the *New value* field.

*East (of the Mississippi River)...***18002378804**

*West (of the Mississippi River)...***18005252834**

__ 4. In the Change Data Area (CHGDTAARA) display, type the **primary** telephone number in the *New value* field.

```
                      Change Data Area (CHGDTAARA)

 Type choices, press Enter.

 Data area specification:
   Data area  . . . . . . . . . > QESTELE       Name, *LDA, *GDA, *PDA
     Library  . . . . . . . . . >   QUSRSYS      Name, *LIBL, *CURLIB
   Substring specifications:
   Substring starting position  . > 001          1-2000, *ALL
   Substring length . . . . . . > 32             1-2000
 New value  . . . . . . . . . . > 'SST18002378804                    '




                                                               Bottom

 F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
 F24=More keys
```

Notes:

a. The total field length for *New value* is 32 characters and ends with the apostrophe at the far right of the field. Do not delete any spaces after the last digit of the telephonenumber. Adding or deleting characters or spaces will cause an error.

b. Do not type spaces or separators as part of the telephone number. The character string must begin and end with an apostrophe.

c. The first three positions of the *New value* field show the connection information. The first 3 positions are case sensitive.

- Position 1 and 2: Modem speaker on (SS)

> **Note:** For the 7852 or 7857 modem, delete SS designation for modem speaker.
>
> To have the modem speaker off when the **SS** command is not included, change the modem speaker value to "never on." Refer to the modem manual for more information on changing configuration.
>
> - Position 3: Tone dialing (T) or pulse dialing (P)
> - Position 4: The number to get your outside line, if required (for example, 9).
> - A colon (:) following the number to get an outside line. This instructs the modem to wait approximately 10 seconds before completing the call.
>
> Examples:
> - Tone dialing, number 9 to get outside line:
>
>   ```
>   'T9:18002378804              '
>   ```
> - Pulse dialing, no number needed to get outside line:
>
>   ```
>   'P18002378804               '
>   ```

__ 5. Press the Enter key.

__ 6. The Change Data Area (CHGDTAARA) display appears again to allow you to enter the alternate support number.

```
                    Change Data Area (CHGDTAARA)

 Type choices, press Enter.

 Data area specification:
   Data area  . . . . . . . . . > QESTELE      Name, *LDA, *GDA, *PDA
     Library  . . . . . . . . . >   QUSRSYS    Name, *LIBL, *CURLIB
   Substring specifications:
   Substring starting position  . > 051        1-2000, *ALL
   Substring length . . . . . . > 32           1-2000
 New value  . . . . . . . . . . > 'T9:18005252834F               '




 F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
 F24=More keys
```

> **Note:**
>
> To determine whether you are on the display for the primary support number or the alternate support number, check the value of the substring starting position. For the primary support number it is 001. For the alternate support number it is 051.

Type the **alternate** support telephone number (the support number you did not use as primary) in the *New value* field and press the Enter key.

__ 7. Press F3 (Exit) to return to the AS/400 Main Menu.

__ 8. On the command line of the AS/400 Main Menu, type **wrkcntinf** and press the Enter key.

    a. The Work with Support Contact Information menu appears.

    On the command line of the Work with Support Contact Information menu, type **6** (*Work with service providers*) and press the Enter key.

```
                    Work with Support Contact Information
                                                        System: XXX
     Select one of the following:

          1. Work with question and answer (Q & A) database
          2. Work with local service information
          3. Work with IBM product information
          4. Work with technical information exchange (TIE)
          5. Work with upgrade order information
          6. Work with service providers




     Selection or command
     ===> 6_____
     _____
     F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel
     (C) COPYRIGHT IBM CORP. 1980, 1999.
```

    b. The Work with Service Providers display appears.

    Type a **2** (*Change*) in the *Opt* field on the same line as the ***IBMSRV** information and press the Enter key.

Setting Up Electronic Customer Support

```
                    Work with Service Providers
                                                    System: XXX
Position to  . . . . . _____  Control point
  Network ID . . . . .  _____

Type options, press Enter.
  1=Add   2=Change   3=Copy   4=Remove   5=Display

        Control
Opt     Point          Network ID    Description
__      _____          _____  __      _____
 2      *IBMSRV                       IBM Service Support
 _      USASYSPEP      APPN           System PEP




                                                        Bottom
  F3=Exit   F5=Refresh   F12=Cancel   F13=Configure distribution services
  F22=Change IBM service route
  (C) COPYRIGHT IBM CORP. 1980, 1999.
```

c. The Change Service Provider display appears.

```
                    Change Service Provider
                                                    System: XXX
Control point . . . . . . . . :    *IBMSRV
  Network ID  . . . . . . . . :
  Description . . . . . . . . :    IBM Service Support

Type changes, press Enter.

  Service support center telephone numbers:
    Hardware service  . . . . . .   1-800-426-7378
    Software service  . . . . . .   1-800-237-5511





                                                        Bottom
  F3=Exit   F5=Refresh   F12=Cancel
```

If you are installing this system in the United States, type the
following on the Change Service Provider display:

Hardware service **1-800-426-7378**
Software service **1-800-237-5511**

If you are not installing this system in the United States, call your
service representative for the service telephone numbers.

d. Press the Enter key.

e. The Work with Service Providers display appears again, with the
   message:

```
Information for service provider *IBMSRV changed.
```

Press F12 (Cancel) as many times as necessary to return to the Work
with Support Contact Information menu.

f. On the command line of the Work with Support Contact Information
menu, type **2** (*Work with local service information*) and press the Enter
key.

g. The Work with Local Service Information display appears.

Type a **2** (*Change service contact information*) on the Work with Local
Service Information display and press the Enter key.

```
                  Work with Local Service Information
                                                  System: XXX
   Select one of the following:

       1. Display service contact information
       2. Change service contact information










   Selection
       2

   F3=Exit   F12=Cancel
```

h. The Change Service Contact Information display appears.

Type the customer information.

```
                  Change Service Contact Information
                                                  System: XXX
   Type changes, press Enter.

     Company . . . . . . . . . .    A S JOURNEY, INC_____
     Contact . . . . . . . . . .    N A VIGATOR_____
     Contact telephone numbers:
       Primary . . . . . . . . .    1-444-1234567__
       Alternative . . . . . .      1-444-1234589__
     Fax telephone numbers:
       Primary . . . . . . . . .    1-444-1234590__
       Alternative . . . . . . .
     Mailing address:
       Street address  . . . . .    999 Yellowbrick Rd._____
                                    _____
                                    _____
       City/State  . . . . . . .    Big Green, KS_____
       Country . . . . . . . . .    USA_____
       Zip code  . . . . . . . .    000000000000

                                                          More...
   F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel
```

i. Page down to the next display. The following display appears:

```
                    Change Service Contact Information
                                                      System: XXX

  Type changes, press Enter.

    National language version      2924   F4 for list
    Media for mailing PTFs  . .    8      1=Automatic selection
                                          2=Half inch reel, 1600 bpi
                                          3=Half inch reel, 6250 bpi
                                          4=Half inch cartridge
                                          5=8 MM cartridge
                                          6=Quarter inch cartridge
                                          7=Quarter inch mini cartridge
                                          8=CD-ROM




                                                                Bottom
    F3=Exit    F4=Prompt    F5=Refresh    F12=Cancel
```

j. Enter the correct information in the *National language version* and *Media for mailing PTFs* fields.

Notes:

1) Press F4 for a list of national language versions.

2) Press the Help key for more information about the *Media for mailing PTFs* field.

k. Press the Enter key.

l. The Work with Local Service Information display appears with the following message:

`Data area QSSF created in library QUSRSYS.`

Note:

If the contact information has been created and you change it, the following message appears:

`Support contact information updated.`

m. Press F3 (Exit).

You have completed entering the information for the electronic customer support remote services.

__ 9. **Test the electronic customer support remote services.**

This step contains instructions on how to perform the following tests:

- Connection/Registration test
- Operating System Preventive Service Planning (PSP) test

Ensure that you have entered the remote service information before you perform this procedure.

a. To perform the connection/registration test, type the following on the AS/400 command line: **sndsrvrqs *test**.

Press the Enter key.

> **Note:**
>
> The following message may be displayed:
>
> ```
> Local system sent SNA negative response data to controller
> QESCTL on device *N.
> ```
>
> Press the Enter key to bypass the message.

b. Messages showing the status of the request are shown at the bottom of the display.

c. If the test completes successfully, the AS/400 Main Menu appears with the following message:

```
Test request complete.
```

d. Did the test complete successfully?

Yes   No

↓   Note the error message and contact your service representative.

This ends the procedure. Go to "Connecting Twinaxial Cables" on page 59.

e. To perform the Operating System Preventive Service Planning (PSP) test, type the following on the AS/400 command line:

sndptford sf99vrm

Where **v** = Version, **r** = Release, and **m** = Modification

To determine your version, release, and modification level:

Setting Up Electronic Customer Support

1) Type **go licpgm** on any command line and press the Enter key. The Work with Licensed Programs display is shown.

2) On the command line of the Work with Licensed Programs display, type **10** (*Display installed licensed programs*) and press the Enter key.

```
 LICPGM                      Work with Licensed Programs
                                                       System:   XXX
 Select one of the following:

   Manual Install
      1. Install all

   Licensed Programs
     10. Display installed licensed programs
     11. Install licensed programs
     12. Delete licensed programs
     13. Save licensed programs

   Secondary Languages
     20. Display installed secondary languages
     21. Install secondary languages
     22. Delete secondary languages
                                                            More...
 Selection or command
 ===> 10_____
 _____
 F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
 F16=AS/400 Main menu
 (C) COPYRIGHT IBM CORP. 1980, 1999.
```

The Display Installed Licensed Programs (LP's) display appears. You will see the LP's that are installed on your system. You may not see all the items that are shown in the following example.

```
                 Display Installed Licensed Programs
                                              System:   XXX
Licensed   Installed
Program    Release   Description
5769SS1    V4R4M0    OS/400 - Library QGPL
5769SS1    V4R4M0    OS/400 - Library QUSRSYS
5769SS1    V4R4M0    Operating System/400
5769SS1    V4R4M0    OS/400 - Extended Base Support
5769SS1    V4R4M0    OS/400 - Online Information
5769SS1    V4R4M0    OS/400 - Extended Base Directory Support
5769SS1    V4R4M0    OS/400 - S/36 and S/38 Migration
5769SS1    V4R4M0    OS/400 - System/36 Environment
5769SS1    V4R4M0    OS/400 - System/38 Environment
5769SS1    V4R4M0    OS/400 - Example Tools Library
5769SS1    V4R4M0    OS/400 - AFP Compatibility Fonts
5769SS1    V4R4M0    OS/400 - *PRV CL Compiler Support
5769SS1    V4R4M0    OS/400 - S/36 Migration Assistant
5769SS1    V4R4M0    OS/400 - Host Servers
                                                          More...
Press Enter to continue.


F3=Exit   F11=Display option   F12=Cancel   F19=Display trademarks
```

3) The current version, release, and modification (VRM) level is
   shown in the *Installed Release* column where **V** is the version, **R**
   is the release, and **M** is the modification level.

Tip:

If the *Installed Release* column is not shown on the
Display Installed Licensed Programs display, press F11
once or twice to show it. F11 is a three-way toggle key
that shows the installed release, the product option, and
the installed status.

4) Find the VRM level for the Operating System/400 entry.

f. Press the Enter key.

g. The Verify Contact Information display appears.

   Press the Enter key to accept the information.

h. The Select Reporting Option display appears.

   Type a **1** (*Send service request now*) on the Select Reporting Option
   display and press the Enter key.

Setting Up Electronic Customer Support

```
                        Select Reporting Option
                                                   System: XXX
 Problem ID . . . . . . . . . :   XXXXXXXXXX
 Current status . . . . . . . :   READY
 Problem  . . . . . . . . . . :   Preventive service planning information
 requested.


 Select one of the following:

     1. Send service request now
     2. Do not send service request
     3. Report service request by voice




 Selection:
      1

 F3=Exit    F12=Cancel
```

Messages showing the status of the request will appear at the bottom of the display.

i. To display the PSP cover letter, type the following on the AS/400 command line: **dspptf 5769ss1 sf99410** and press the Enter key.

You have completed the test of the electronic customer support remote services.

__ 10. Press the Enter key.

The AS/400 Main Menu appears.

__ 11. Continue with "Connecting Twinaxial Cables" on page 59.

Connecting Twinaxial Cables

__ 1. Do you have a twinaxial cable to connect to the 2-port or 4-port
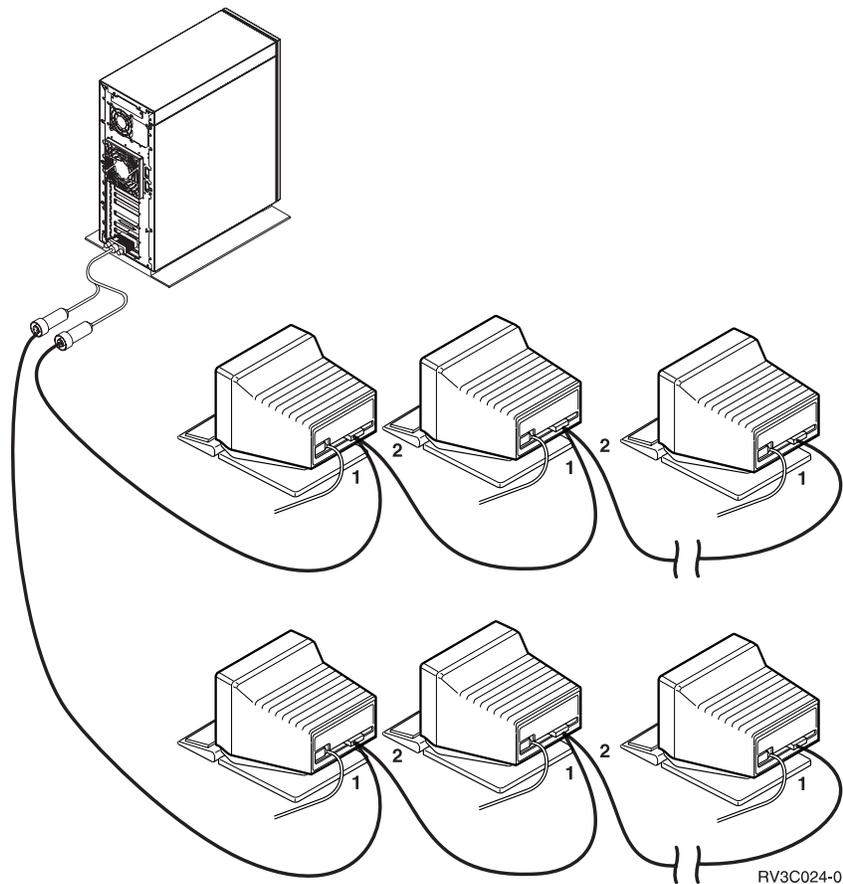   attachment cable, **part number 44H7582**, connected in position 1B?

RV3U583-0
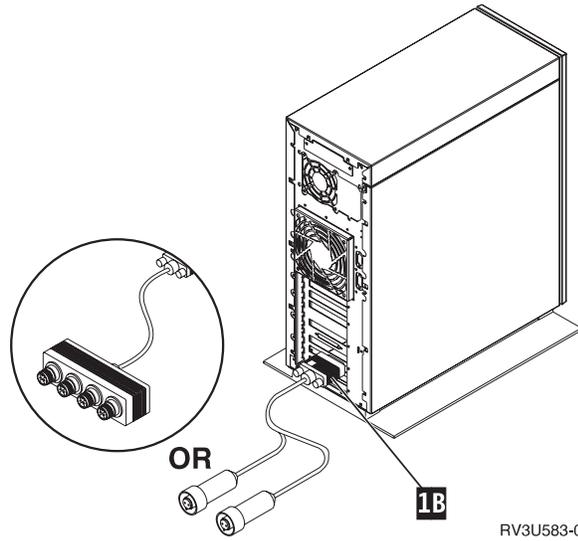
Yes   No

↓   Go to "Ordering Program Temporary Fixes" on page 61.

__ 2. Power down the system. Type **pwrdwnsys *immed** and press the Enter
        key.

Connecting Twinaxial Cables

__ 3. Connect the twinaxial communications cable to the 2-port or 4-port Twinaxial connector on the cable.

RV3C024-0

The workstations (displays or printers) each have 2 sockets for cable connections. The workstations are connected in a series, as shown, to the twinaxial ports attachment connected to the back of the 9401 Model 150 system unit.

- You can have as many as 7 addresses for a series of twinaxial displays on one port.
- The last workstation in each series must have a terminating plug. Most workstations have this already built-in and nothing further is required; however, some older models require an external terminating plug. See the documentation for the workstation to determine if the external terminating plug is required.

An address is given to each workstation connected to the system. Each workstation (up to 7) that is attached to a port must have a

unique address (0-6). It is not necessary to assign the addresses in sequential order. Follow the addressing instructions in the setup guide for each workstation.

Note:

If you need more information than what is in this step, go to the following Web site:

`http://www.as400.ibm.com/tstudio/planning/plngstrt.htm`

and click on the *Cable* link.

__ 4. Power up your system. The system will complete an IPL, which will take up to 15 minutes to complete.

__ 5. Continue with "Ordering Program Temporary Fixes".

Ordering Program Temporary Fixes

IBM periodically creates PTFs to correct problems, or potential problems found within a particular IBM licensed program.

When your system was built, it was loaded with the latest cumulative PTF package that was available at that time. It is important that you maintain PTFs on your system.

__ 1. Order the latest cumulative program temporary fix (PTF) package. For information on ordering the most current PTF, use one of the following:

- The *Software Installation*, SC41-5120-03, book
- The *AS/400e Information Center CD-ROM*
- The following Web site:

    `http://www.as400.ibm.com/infocenter`

You can continue setting up your system; however, it is recommended that, once you receive the cumulative PTF package, you apply the package.

__ 2. When the package has been applied, continue with the final section of this chapter.

Completing Your Installation

Your system is ready to use. Congratulations! Additional tasks, such as adding software or hardware, configuring communications, or setting up users, can be done whenever you want to do them.

Keep all materials for use by the service representative in a safe place.

Configuring Your Remote Control Panel

Did you connect cable, **part number 97H7591**, to the connector labeled **MI** on the back of your AS/400 system unit?

No   **Yes**

↓   Connect the other end of the Remote Control Panel cable (97H7591) to a serial port on a PC other than your Twinaxial PC or workstation. Go to the *Operations Console Setup*, SC41-5508-00, book to find the instructions for PC requirements and remote control panel configuration.

Completing Optional Tasks

Read this section if you want to install licensed programs that were not preloaded on your system, if you want to remove licensed programs already on your system, or if you want to rename your system at this time.

- Go to the *Software Installation*, SC41-5120-03, book if you need to do any of the following:
  – Install any licensed programs. You need to do this if your system does not contain all the programs that you ordered and if you received a separate shipment of distribution media. Use the chapter "Installing Additional Licensed Programs".

    Note:

    If you are unsure which licensed programs are installed on your new AS/400 system, type **go licpgm** on the command line and press the Enter key. Then type **10** to view the licensed programs already on your system.

  – Remove licensed programs.

You may need help to determine if you should delete an unwanted part of a licensed program. Use the information in the topic, *How to Remove Licensed Programs*, in Appendix C of the *Software Installation* book.

- If you need to install application programs, including those from other software providers, go to the documentation that came with the application programs.
- To install any of the applications that are listed in the following table, use the book that is listed for that application.

Application	Where to Go for Information
Firewall	Information Center from the *AS/400e Information Center CD-ROM* or from the following Web site: `http://www.as400.ibm.com/infocenter`
Novel NetWare**	Integrating AS/400 with Novell NetWare, SC41-5124
OS/2 Warp Server	OS/2 Warp Server for AS/400 Administration, SC41-5431
Integration Service (if you want to use your Integrated NetFinity Server as a LAN adapter)	Chapter 2 of this book
FloMark**	IBM FloMark** Installation and Maintenance, SH12-6260
Windows NT**	*OS/400 - AS/400 Integration with Windows NT Server*, SC41-5439-02

- If you want to rename your system to something that is easy for you to remember, complete the following. Note that renaming your system does include having to IPL (turn off and restart) your system again, so you may want to do this when you have to apply PTFs or when you have a scheduled IPL.

  __ 1. Enter the Change Network Attribute (CHGNETA) command on the command line:

     chgneta sysname(xxxxxxxx)

     Where **xxxxxxxx** can be up to 8 alphanumeric characters.

  __ 2. Press the Enter key.

  __ 3. IPL your system again. The system takes up to 20 minutes to complete the IPL.

     Note:

Completing Your Installation

If your system is in a network, your network administrator (if you have one) will tell you what your system name should be. Otherwise, choose a name that is meaningful to you.

Getting Your System Working for You

You can access the Information Center from the *AS/400e Information Center CD-ROM* or from the following Web site:

`http://www.as400.ibm.com/infocenter`

Topics in the Information Center include:
- Configuring devices
- Establishing backup and recovery strategies

  Complete backup and recovery information is covered in the *Backup and Recovery*, SC41-5304-03 book.
- Making your 4758 Cryptographic card operational
- Setting up Client Access and TCP/IP
- Setting up security policies
- Operations Navigator

Note:

The AS/400 9401 Model 150 does not provide support for Macintosh** and ASCII devices.

Chapter 2. Configuring Your NetFinity Server

This chapter shows how to configure *Integration Services* for the Integrated NetFinity Sever. Proceed with this chapter if you plan to use your Integrated Netfinity Server for AS/400 as a **local area network (LAN) adapter only**. If you want to configure *Integration Services for Integrated NetFinity Server* to run a licensed program such as Lotus Notes, Novell Netware, or OS/2 Warp Server on your Integrated Netfinity Server for AS/400, see the book for the appropriate licensed program. If you want to run Windows NT Server, see that topic under the Networking topic on the *AS/400 Information Center CD-ROM.*

There are four main steps to the configuration procedure for setting up an Integrated Netfinity Server for AS/400 as a LAN adapter:

1. Determine the name of the resource that represents your Integrated Netfinity Server for AS/400
2. Create a network server description (NWSD)
3. Create a line description
4. Install *Integration Services*

Determine the Name of the Integrated Netfinity Server for AS/400 Resource

Before you configure *Integration Services*, you must know the name of the resource that represents your Integrated NetFinity Server.

__ 1. Enter GO CFGNWS on the AS/400 command line. The Configure Network Server menu appears.

__ 2. From the Configure Network Server menu, select option 10 (Work with hardware resources). The Work with Hardware Resources (WRKHDWRSC) display appears.

__ 3. On the Work with Hardware Resources display, type *CMN in the *Type* field. The Work with Communication Resources display appears.

__ 4. Record the name of the resource that represents your Integrated NetFinity Server. The 285x Integrated NetFinity Server appears as File Server Adapter IOA. Associated with the Integrated NetFinity Server adapter card is a resource name in the format LINxx, where xx is the number associated with the resource.

In Figure 2 on page 66, the 285x Integrated NetFinity Server adapter resource name is LIN05.

Configuring Your NetFinity Server

```
                  Work with Communication Resources
                                              System:    SYSNAMXX
  Type options, press Enter.
    5=Work with configuration descriptions    7=Display resource detail

  Opt   Resource      Type  Status               Text
        CMB01         6756  Operational          Combined function IOP
          LIN03       605A  Operational          Virtual Controller
          LIN01       2724  Operational          LAN Adapter
            CMN01     2724  Operational          Token-Ring Port
          LIN02       2720  Operational          Comm Adapter
            CMN02     2720  Operational          Comm Port
          LIN05       2850  Operational          File Server IOA
            CMN03     2723  Operational          Ethernet Port
            CMN07     2724  Operational          Token-Ring Port
            CMN05     6B00  Operational          Virtual Port




                                                          Bottom
    F3=Exit   F5=Refresh   F6=Print   F12=Cancel
```

Figure 2. Work with Communication Resources Display (285x Integrated NetFinity Server)

__ 5. Press F12 (Cancel) to return to the Configure Network Server display.

__ 6. Go to "Create a Network Server Description (NWSD)".

Create a Network Server Description (NWSD)

For each Integrated NetFinity Server, you must create a network server
description (NWSD). The NWSD provides setup information about the
Integrated NetFinity Server software, network protocol, and a definition of
attached communications equipment, such as line descriptions.

__ 1. On the Configure Network Server menu, select option 1 (Create
        network server description). The Create Network Server Desc
        (CRTNWSD) display appears.

__ 2. In the *Network server description* field, specify the name of the network
        server. All network server descriptions in a physical LAN must have a
        unique name. The network server description name can have up to
        eight characters. To avoid character translation problems, use the
        characters A-Z and 0-9 when naming the network server.

__ 3. In the *Resource name* field, specify the resource name of your Integrated
        Netfinity Server for AS/400. If you do not know the resource name, see
        "Determine the Name of the Integrated Netfinity Server for AS/400
        Resource" on page 65.

__ 4. In the *Network server type* field, specify *BASE for the network server type parameter.

__ 5. Press the Enter key. Additional parameters are shown on the display. You can use the default values. To find out more information about the additional parameters, you can position the cursor on any of the parameters and press F1 to see the online help for that field.

__ 6. Press the Enter key. The network server description is created.

__ 7. Press F12 (Cancel) to return to the Configure Network Server display.

__ 8. Go to "Create a Line Description".

Create a Line Description

You must create either a token-ring or an Ethernet line description for use with *Integration Services for Integrated NetFinity Server*, depending on which is used in your network. Most of the configurations for line descriptions that are associated with Integrated Netfinity Server for AS/400 are very similar to those you already use for other AS/400 functions.

__ 1. Enter GO CFGNWS on the AS/400 command line. The Configure Network Server menu appears.

__ 2. Select option 21 (Line commands).

__ 3. Select option 21 (Create Line Desc (Ethernet)) to create an Ethernet line description, or option 29 (Create Line Desc (Token-Ring)) to create a token-ring line description. You might need to page down to get to these options.

Either the Create Line Desc (Token-Ring) or the Create Line Desc (Ethernet) display appears.

Configuring Your NetFinity Server

```
                    Create Line Desc (Token-Ring) (CRTLINTRN)

 Type choices, press Enter.

 Line description . . . . . . . . > TRNLINE        Name
 Resource name  . . . . . . . . . > *NWSD          Name, *NWID, *NWSD
 Vary on wait . . . . . . . . . .   *NOWAIT        *NOWAIT, 15-180 (1 second)
 Maximum controllers  . . . . . .   40             1-256
 Network server description:
                                    SERVER1        Name, *NONE
   Port number  . . . . . . . . .   1              1-3, *INTERNAL
 Line speed . . . . . . . . . . .   4M             4M, 16M, *NWI
 Duplex . . . . . . . . . . . . .   *HALF          Character value, *HALF, *FULL
 Maximum frame size . . . . . . .   1994           265-16393, 265, 521, 1033...
 Local adapter address  . . . . .   400000000001   400000000000-7FFFFFFFFFFF...
 Exchange identifier  . . . . . .   *SYSGEN        05600000-056FFFFF, *SYSGEN




                                                                      More...
 F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters    F12=Cancel
 F13=How to use this display       F24=More keys
```

Figure 3. Create Line Description (Token-Ring) - First Display

```
                    Create Line Desc (Token-Ring) (CRTLINTRN)

 Type choices, press Enter.

 SSAP list:
   Source service access point  .   *SYSGEN        02-FE, *SYSGEN
   SSAP maximum frame . . . . . .   _              *MAXFRAME, 265-16393
   SSAP type  . . . . . . . . . .   _              *CALC, *NONSNA, *SNA, *HPR
             + for more values
 Text 'description' . . . . . . .   *BLANK
```

Figure 4. Create Line Description (Token-Ring) - Second Display

```
                  Create Line Desc (Ethernet) (CRTLINETH)

Type choices, press Enter.

Line description . . . . . . . .   ETHLINE      Name
Resource name  . . . . . . . . .   *NWSD        Name, *NWID, *NWSD
Online at IPL . . . . . . . . .    *YES         *YES, *NO
Vary on wait . . . . . . . . . .   *NOWAIT      *NOWAIT, 15-180 seconds
Attached NWI . . . . . . . . . .   *NONE        Name, *NONE
Network interface type . . . . .   *FR          *FR, *ATM
DLC identifier . . . . . . . . .   *NONE        1-1018, *NONE
Network server description:
                                   *SERVER1     Name, *NONE
  Port number  . . . . . . . . .   2            1-3
Local adapter address  . . . . .   020000000000 020000000000-7EFFFFFFFFFF...
Exchange identifier  . . . . . .   *SYSGEN      05600000-056FFFFF, *SYSGEN
Ethernet standard  . . . . . . .   *ALL         *ETHV2, *IEEE8023, *ALL
Line speed . . . . . . . . . . .   10M          Character value, 10M, 100M...
Duplex . . . . . . . . . . . . .   *HALF        Character value, *HALF...

                                                                 More...
F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display       F24=More keys
Parameter LIND required.                                             +
```

Figure 5. Create Line Description (Ethernet) - First Display

```
                  Create Line Desc (Ethernet) (CRTLINETH)

Type choices, press Enter.

SSAP list:
  Source service access point  .   *SYSGEN      02-FE, *SYSGEN
  SSAP maximum frame . . . . . .   _            *MAXFRAME, 265-1496, 265...
  SSAP type  . . . . . . . . . .   _            *CALC, *NONSNA, *SNA, *HPR
             + for more values
Text 'description' . . . . . . .   *BLANK
```

Figure 6. Create Line Description (Ethernet) - Second Display

Resource Name (RSRCNAME)

Specify *NWSD for the value on the Resource name parameter. The
*NWSD value indicates that the line is specified in the network server
description.

Network Server Description (NWSD)

The network server description is a two-part parameter that consists of
the following elements:

a. The name of the network server with which the line is associated.

b. The port on the Integrated Netfinity Server for AS/400 to which the line is attached. See the book *Integration Services for Integrated PC Server* to see the physical port locations for the 285x Integrated NetFinity Server.

If you have not yet created a network server description, go to "Create a Network Server Description (NWSD)" on page 66.

__ 4. Line Speed

Specify the speed for which your LAN is configured.

__ 5. Local Adapter Address (ADPTADR)

Specify the adapter address for this line description within the range that is shown.

The *ADPT value is not valid for the Integrated Netfinity Server for AS/400.

Tips:

- If you have existing Ethernet or token-ring LANs, you may have to update servers and devices on those LANs to identify AS/400 by its local adapter address.

  The address you use for such applications as 5250 emulation, Client Access, and the like, needs to match this address to access the AS/400 through the Integrated NetFinity Server.

- If you do not specify *YES for the auto create controller, you must create a controller description before the Integrated NetFinity Server can be used for AS/400 communications.

For more information on configuring controller descriptions and AS/400 communications, see the *Communications Configuration*, SC41-5401-00 book.

When you have finished installing and configuring *Integration Services*, you can start the feature by varying on the network server. For more information, see "Starting and Stopping Integration Services for the Integrated NetFinity Server" on page 71.

After you have successfully varied on the network server, save a copy of the working NWSD and server configuration files. Then, if later changes to the NWSD or server configuration files cause errors, you can restore the working version of the NWSD and the server configuration files. For more information, see the *Integration Services for Integrated PC Server*, SC41-5123-00 , book. book.

Starting and Stopping Integration Services for the Integrated NetFinity Server

You can use the Network Server Administration menu to start or stop
Integration Services for Integrated NetFinity Server.

__ 1. Enter GO NWSADM on the AS/400 command line. The Network Server
Administration display appears as shown in Figure 7.

__ 2. To start a network server, select option 2.

__ 3. To stop a network server, select option 3.

Note:

Only one NWSD can be active for each Integrated NetFinity Server.

Once an application is installed on the Integrated NetFinity Server,
starting and stopping the network server also starts and stops the
application, not just the operating system running on the Integrated
NetFinity Server.

```
NWSADM                    Network Server Administration
                                                    System:   SYSNAMXX
Select one of the following:

     1. Configure a network server
     2. Start a network server
     3. Stop a network server
     4. Work with network server storage spaces

    10. Change network server attributes
    11. Change network server user attributes
    12. Work with network server user enrollment

    20. Work with network server status
    21. Work with network server aliases

    30. Submit a network server command
                                                           More...
Selection or command
===>

F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
F16=AS/400 Main menu
```

Figure 7. Network Server Administration Menu

Checking Network Server Status

To view the status of a network server, enter the following command:

```
WRKNWSSTS SVRTYPE(*BASE)
```

The Work with Network Server Status Display appears.

```
                    Work with Network Server Status
                                              System:   SYSNAMXX
 Server type  . . . . . :    *BASE

 Type options, press Enter.
   8=Work with configuration status   14=Restart server   15=Work with storage

 Opt  Server    Status            Text
 __   BENCC04   ACTIVE            *BLANK
 __   BEN1CC09  INACTIVE          *BLANK




                                                          Bottom
 Parameters or command
 ===>
 F3=Exit   F4=Prompt   F5=Refresh   F6=Print list   F9=Retrieve   F12=Cancel
 F17=Position to
```

Figure 8. Work with Network Server Status Display

This display shows you the list of base servers and their status (active, inactive, or pending).

This display also allows you to work with configuration status, restart a server, and work with network server storage spaces.

Chapter 3. Adding Hardware Options to Your 9401 Model 150

Adding hardware options to your system unit is an easy way to increase its capabilities. Although a trained service representative must install a few options, you can install most options yourself. However, if you elect not to perform an option installation, contact IBM or an authorized dealer to make arrangements for them to perform the installation. There may be a fee for this service.

You can add:
- Main storage cards
- Disk units
- Integrated NetFinity Server
- Adapter cards
- Adapter card cables

Before you order additional hardware options, you may need to verify what is installed in your system unit. The following information will help you to determine what is in your system unit.

Main Storage Cards (Memory)

Hardware Option
> Main storage cards (memory)

Feature (Option) Number
> 3182, 3110

How Many Supported
> 3 sets

How to Determine What Your System Unit Has

At the AS/400 Main menu:
- __ 1. Type **strsst** and press the Enter key.
- __ 2. When the System Service Tools menu appears, select option **1** (*Start a service tool*). Press the Enter key.
- __ 3. When the Start a Service Tool menu appears, select option **7** (*Hardware service manager*). Press the Enter key.

Main Storage Cards-Memory

__ 4. When the Hardware Service Manager menu appears, select option **2** (*Logical hardware resources*). Press the Enter key.

__ 5. When the Logical Hardware Resources menu appears, select option **3** (*Main storage resources*). Press the Enter key.

The following display is an example of what you will see. The location of the main storage cards that are installed in your system unit is listed in the *Location* column.

```
                    Display Main Storage Information

  Type options, press Enter.
   2=Change detail    5=Display detail    8=Associated packaging resource(s)


  Opt   Location  Type    Size   Resource Name  Status
   _         1    3172      32   MS01           Operational

   _

   _
```

Main storage cards can be installed in lo cations 1, 2, and 3. You will always see *Location 1* as "Operational". If *Location 2* is listed as "Operational", you have room to install only one more set of storage cards. If all three locations are listed as "Operational", your system unit will not hold any more main storage cards.

__ 6. Press F3 (Exit) until you reach the Exit System Service Tools display. Then press the Enter key to end SST and return to the AS/400 Main menu.

Disk Units (Storage)

Hardware Option
Disk units (Storage)

Feature (Option) Number
6607

How Many Supported
4 disk units

How to Determine What Your System Unit Has

At the AS/400 Main menu:

__ 1. Type **strsst** and press the Enter key.

__ 2. When the System Service Tools menu appears, select option **3** (*Work with disk units*). Press the Enter key.

__ 3. When the Work with Disk Units menu appears, select option **1** (*Display disk configuration*). Press the Enter key.

__ 4. When the Display Disk Configuration menu appears, select option **1** (*Display disk configuration status*). Press the Enter key.

The following display is an example of what you will see. The disk units that are installed in your system are listed on your screen as *Configured* in the *Status* column.

```
            Display Disk Configuration Status

              Serial                    Resource
 ASP  Unit    Number     Type    Model  Name      Status

  1    1      xx-xxxxxxx 6607     030    DD00x     Configured
  _
  _
```

There are four disk unit locations. You w ill always see *Unit 1* as "Configured". If *Unit 2* is listed as "Configured", you can install two more disk units. If *Unit 3* is listed as "Configured", you can install one more disk unit. When four disk units are listed as configured, you cannot install any more disk units in your system.

__ 5. Press F3 (Exit) until you reach the Exit System Service Tools display. Then press the Enter key to end SST and return to the AS/400 Main menu.

Integrated NetFinity Server

Hardware Option
Integrated NetFinity Server

Feature (Option) Number
2852 or 2868 (card number 2850)

How Many Supported
1

How to Determine What Your System Unit Has

__ 1. When the IPL or Install the System menu appears, select the *Use dedicated service tools* option. Press the Enter key.

__ 2. On the Dedicated Service Tools (DST) Sign-On screen, enter your DST USERID and password. Press the Enter key.

__ 3. When the Use Dedicated Service Tools menu appears, select option **1** (*Start a service tool*). Press the Enter key.

__ 4. When the Select a Service Tool menu appears, select option **7** (*Hardware service manager (systems, frames, cards)*). Press the Enter key.

__ 5. When the Hardware Service Manager menu appears, select option **1** (*Packaging hardware resources*).

Integrated NetFinity Server

__ 6. Place the cursor on System Unit and type **9** (*Hardware contained within package*).

__ 7. Is the adapter card number 2850 listed in the *Model-Type* column?

```
                  Packaging Hardware Resource Detail

Resource name . . . . . . . . . . . . . xxx

Type-Model  . . . . . . . . . . . . . . 2850-001
Actual type model . . . . . . . . . . .
Serial number . . . . . . . . . . . . . xx-xxxxxxx
Part number . . . . . . . . . . . . . . xxxxxxxxxxxx
```

Yes   No

↓   You **can** add a 2850 Integrated NetFinity Server card to your system unit.

You **cannot** add another 2850 Integrated NetFinity Server card to your system unit.

__ 8. Press F3 (Exit) until you reach the Exit System Service Tools display. Then press the Enter key to end SST and return to the AS/400 Main menu.

Adapter Cards

Hardware Option
Adapter cards (add functions)

Feature (Option) Numbers
2720, 2721, 2723, 2724

How Many Supported
Varies (see Table 3 on page 78 and Table 4 on page 78)

**How to Determine What Your System Unit Has**

At the AS/400 Main menu:

__ 1. Type **strsst** and press the Enter key.

__ 2. When the System Service Tools menu appears, select option **1** (*Start a service tool*). Press the Enter key.

__ 3. When the Start a Service Tool menu appears, select option **7** (*Hardware service manager*). Press the Enter key.

__ 4. When the Hardware Service Manager menu appears, select option **2** (*Logical hardware resources*). Press the Enter key.

__ 5. When the Logical Hardware Resources menu appears, select option **1** (*System bus resources*). Press the Enter key.

__ 6. On the Logical Hardware Resources on System Bus menu, type an **8** (*Associated packaging resource(s)*) next to *Multiple Function IOP*. Press the Enter key.

__ 7. On the Packaging Resources Associated with a Logical Resource menu, type a **9** (*Hardware contained within package*) next to *Multiple Function IOP*. Press the Enter key.

The following display is an example of what you will see. The adapter cards that are listed on your display as *Communications IOA* are the cards that are installed in your system unit. Note that the alphabetic letters (A through G) that point out the card positions map to Table 3 on page 78 and Table 4 on page 78.

```
            Packaging Hardware Resources

                             Resource      Card
Description           Type-Model  Name        Pos

System Processor      2270-000    C01         1
   Communications IOA 2721-001    C08         1A
   Communications IOA 2720-001    C09         1B
```


RV3D505-0
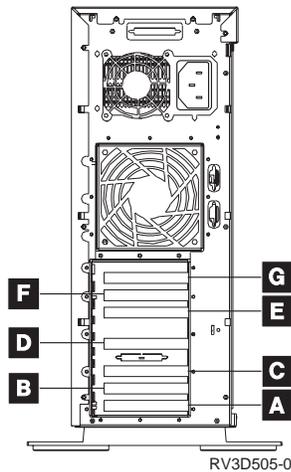
On your *Packaging Hardware Resources* display, look at the *Type-Model* column.

Do you have a Communications IOA Type-Model **285x-xxx** installed in your system unit?

Yes   **No**

Adapter Cards

↓   Go to Table 3 to determine if you can add another adapter card.

Go to Table 4 to determine if you can add another adapter card.

Adapter Card Placement Table:

Table 3. System Unit WITHOUT an Adapter Card Position D

Adapter Card Position	2720	2721	2723 or 2724
C	X	X	X
B	X	X	-
A	-	X	X
Maximum Number of Adapter Cards Per System Unit	1	3	1

Note:
- Position B is already filled and is used for your system unit console and electronic customer support modem.
- Positions D, E, F, and G do not have cards.

Table 4. System Unit WITH an Adapter Card in Position D

Adapter Card Position	2720	2721	285A	2850 or 2852	2723 or 2724	2838
G	-	-	-	-	X	X
F	-	-	-	-	X	X
E	-	-	-	X	-	
D	-	-	X	-	-	
C	X	X	-	-	-	
B	X	X	-	-	-	
A	-	X	-	-	-	
Maximum Number of Adapter Cards Per System Unit	1	3	1	1	2	

- Position B is already filled and is used for your system unit console and electronic customer support modem.

__ 8. Press F3 (Exit) until you reach the Exit System Service Tools display. Then press the Enter key to end SST and return to the AS/400 Main menu.

Adapter Card Cables

Hardware Option
Adapter card cables

Feature (Option) Number
0350, 0353, 0356, 0359, 0363, 0399, 0325

How Many Supported
Varies

For information on which cable to connect to an adapter card, go to
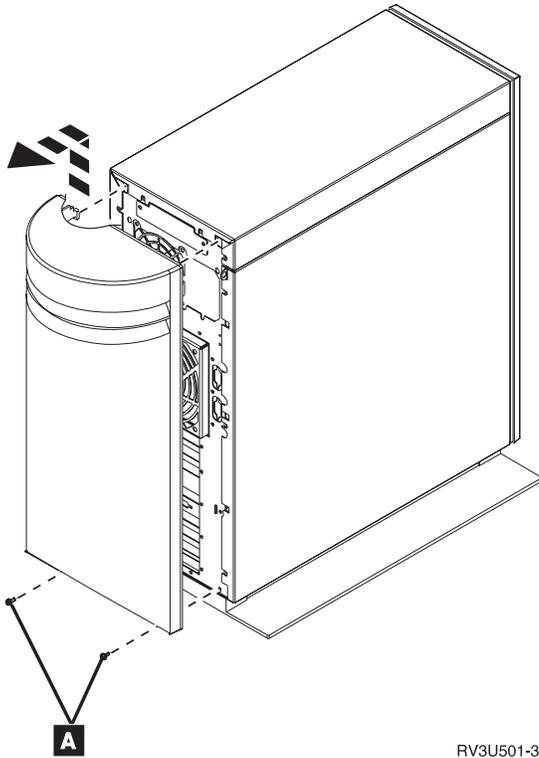"Installing Network Cables" on page 18, in this book.

How to Locate the Rating Plate In Your System Unit

The rating plate shows the voltage ranges for the system.

__ 1. Remove the back cover. Your system unit will have one of the following
back covers:

How to Locate the Rating Plate In Your System Unit

Back Cover With Screws

Back Cover Without Screws

RV3U581-0
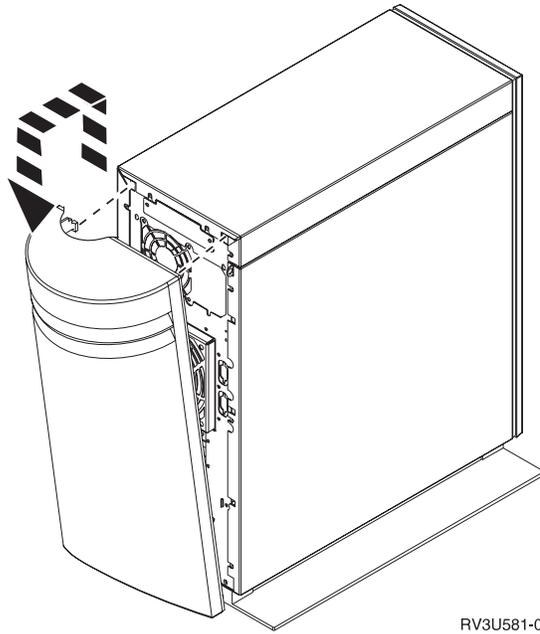
To remove the back cover:

a. Grip the upper corners of the cover.

b. Pull the cover up and toward you.

c. Push the cover down until it clears the bottom bracket and remove it from the system unit.

A

RV3U501-3

To remove the back cover:

a. Remove the two screws **A** near the bottom of the system unit.

b. Grip the upper corners of the cover.

c. Pull the cover up and toward you.

__ 2. Remove the side cover from the system unit by doing the following:

a. Remove the three screws **B** .

b. Slide the cover from front to back.
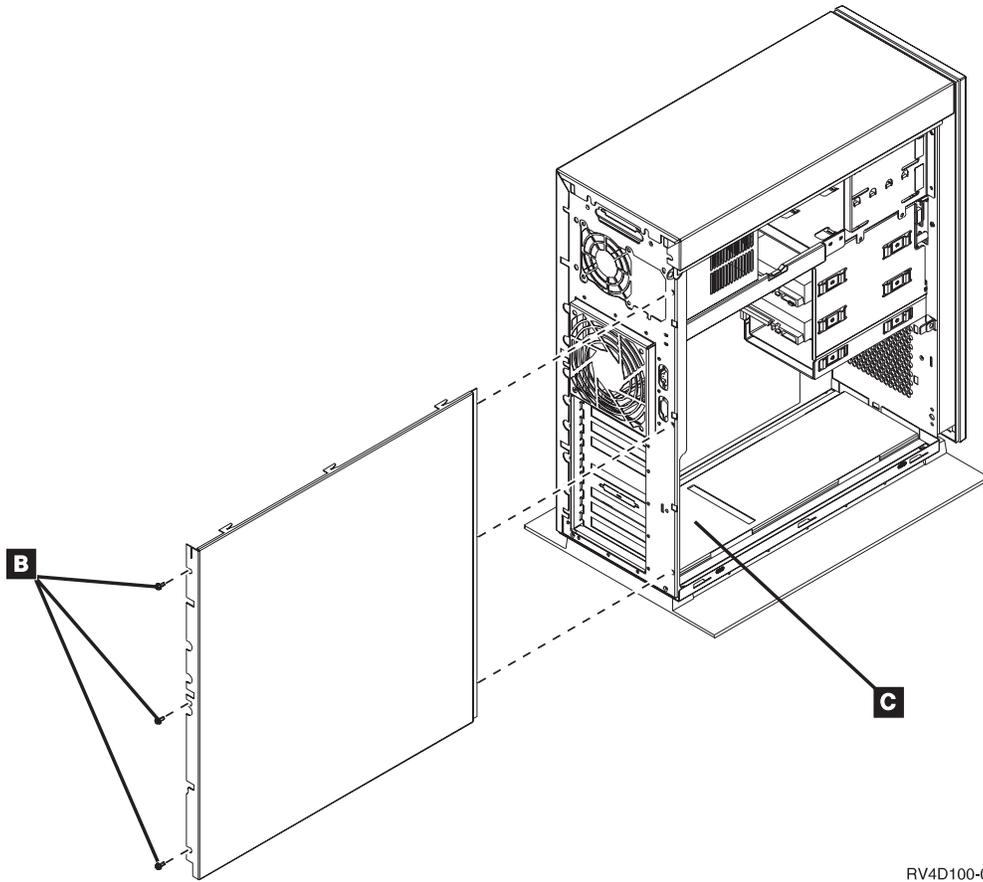
RV4D100-0

The *rating plate* is located inside the system unit toward the back of the bottom panel **C** .

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
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Responsible Party:

International Business Machines Corporation
New Orchard Road
Armonk, NY 10504

Telephone: 1-919-543-2193

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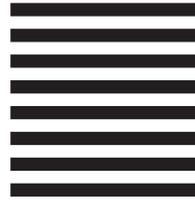Fold and Tape   **Please do not staple**   Fold and Tape

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