44P Series Model 170



Setup Instructions

SA38-0561-01

First Edition (April 2000)

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Step 1: Check Your Inventory

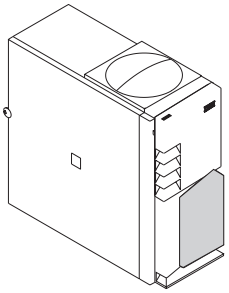
☐ Books, CD-ROM's, & other media



☐ "About Your Machine" document



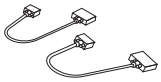
☐ System unit



☐ Display and system unit power cables (2)



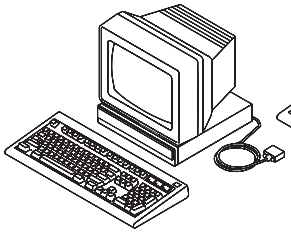
☐ 9-pin to 25-pin serial converters (2)(optional)



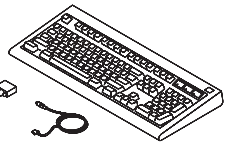
☐ SCSI converter cable (optional)



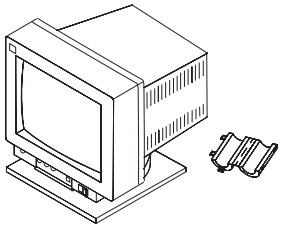
☐ ASCII terminal (optional)



☐ Keyboard (optional) Wrist/palm rest (optional)



☐ Display and cable toroid (optional)

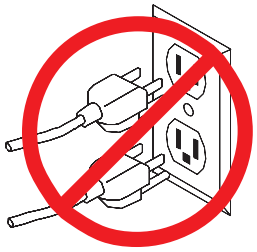


☐ Mouse (optional)



Step 2: Read the Safety Notices

Safety Note: Before continuing, refer to the System Unit Safety Information book for Danger and Caution notices. Do not plug any cables into the system unit, adapters, or electrical outlets until you have reviewed this information. Make sure none of the power cords are connected before continuing to the next step.



Step 3: Need Help?

If you encounter difficulties while setting up your system unit, contact your sales representative for assistance.

Step 4: Are All of the Internal Options Installed?

These instructions are for RS/6000 7044 Model 170 systems that have internal options (such as adapters, disk drives, or memory upgrades) already installed. If you have internal options that are not installed, go to "Installing Options" in the RS/6000 7044 Model 170 User's Guide, order number SA38-0561, shipped with your system. Then return to “Step 5: Position the System Unit and Display” on page 3.

Step 5: Position the System Unit and Display

Position the system unit and display (optional) at or near their finished location.

Observe the following guidelines when positioning the system unit:

- Leave enough space around the system unit to safely and easily complete the setup procedures.
- Observe standard ergonomic guidelines while arranging your system unit so that you may work comfortably and safely. For more information on arranging your workstation, visit the Healthy Computing Web site at: http://www.pc.ibm.com/us/healthycomputing
- The system unit weighs between 17.7 kg (39 pounds) and 20.4 kg (45 pounds). Two people are recommended to safely move it. Using less than two persons to move it can result in injury or damage to the machine.
- Be sure to maintain at least 76 mm (3 inches) of space in front and behind the system unit to allow the system unit to cool properly. Blocking the air vents can cause overheating, which might result in a malfunction or permanent damage to the system unit.
- Place the system unit in a location where it can safely and easily reach any necessary power outlets and network connections.
- Displays or ASCII terminals can weigh as much as 35 kg (77 pounds). Use caution when lifting or moving the display or ASCII terminal.
- Place the display or ASCII terminal in a stable and sturdy location.

Step 6: Check Your Display Type

If you ordered a display with your system unit, the system unit has been set to use the highest display resolution and refresh rate available for that display. If you want to:

- Attach a different display to your system unit or
- Change the default display resolution or refresh rate

then after completing the installation steps, refer to the Customer Installable Options Library CD-ROM for the documentation on the graphics adapter to learn how to change the settings for the display you are installing.

Step 7: Connect the Display

Connect the graphics display cable to the back of the display and to the graphics adapter connector.

For more display instructions, see your display documentation.

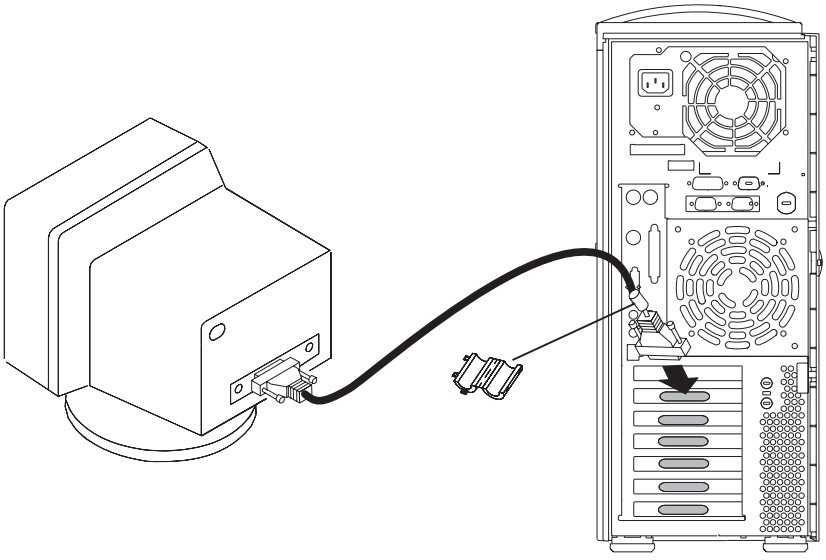
Note: Some displays require an additional cable.

To connect an ASCII display:

If you have an ASCII terminal, you must connect it to the serial connector S1. Wait until you reach “Step 12: Connect the Serial and Parallel Devices” on page 8 for instructions.

Step 8: Attach the Display Cable Toroid

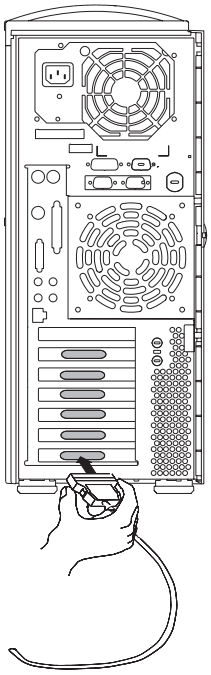
If the cable for your display does not include a toroid, locate the toroid shipped with your system unit and follow the installation instructions included with the toroid.



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Step 9: Connect the Adapter Cables

If you are using any optional adapters (such as Token-Ring or 8-port EIA-232), connect the cables to the appropriate connectors in slots 1 through 6.



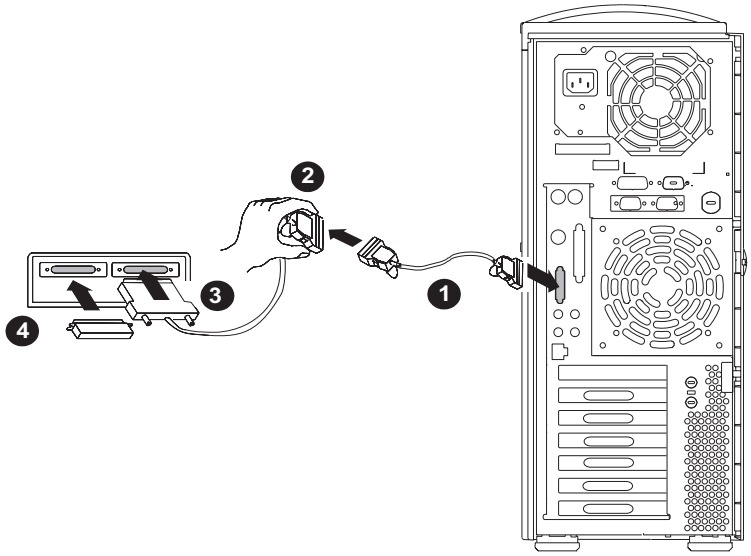
Step 10: Connect the First External SCSI Device

If you need to connect an external SCSI device, follow these steps. If you ordered the optional SCSI converter cable and need it to connect an external SCSI device, begin with step 1. If you do not need the converter cable, begin with step 3. If you have no external SCSI devices to attach, skip to “Step 12: Connect the Serial and Parallel Devices” on page 8.

1. Connect the Ultra 2 SCSI end of the converter cable directly to the system unit.
2. Connect the other end of the SCSI converter cable to one end of the SCSI device cable.
3. Connect the other end of the SCSI device cable to the SCSI device.
4. Connect the SCSI device terminator (if this is the last device to be connected). The last device on a SCSI bus MUST be terminated.

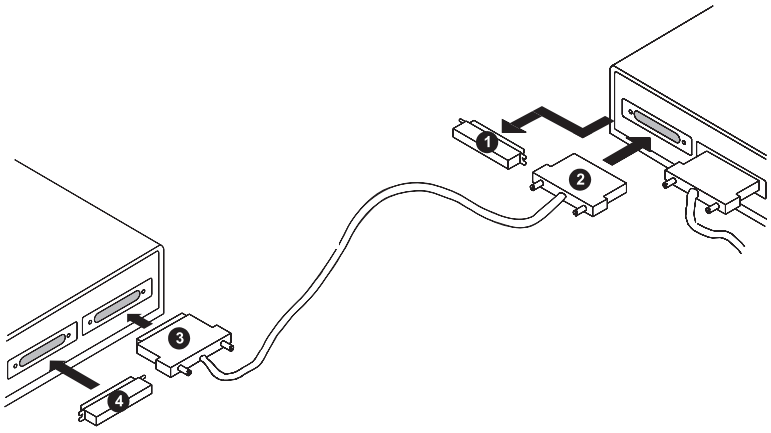
   Note: When a cable is not attached to the SCSI connector on the system unit, the connector is automatically terminated (internally).

   Refer to the SCSI device documentation to set the SCSI device address. For future reference, you can record the address in Appendix A of the RS/6000 7044 Model 170 User's Guide.



Step 11: Connect Additional External SCSI Devices

1. Locate the last SCSI device in the chain from the system unit. Remove the SCSI device terminator (if it is installed).
2. Connect the new SCSI cable where you just removed the SCSI device terminator.
3. Connect the other end of the SCSI cable to the new SCSI device.
4. Connect the SCSI device terminator.
5. Repeat the above steps for each additional SCSI device you attach.
6. Refer to the SCSI device documentation to set the SCSI device address. For future reference, you can record the address in Appendix A of the RS/6000 7044 Model 170 User's Guide.

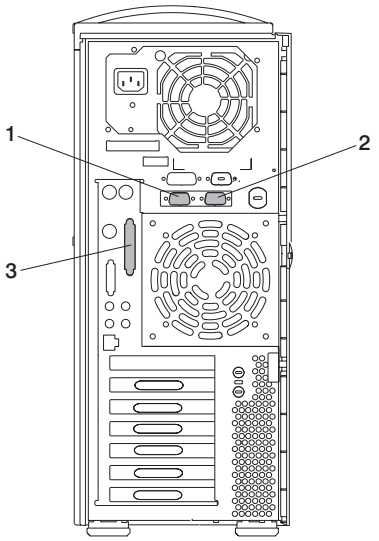


Step 12: Connect the Serial and Parallel Devices

If you have a parallel device (such as a printer), connect it to the parallel connector.

If you have one serial device, connect it to the serial connector S1. If you have an ASCII terminal, you must connect it to the serial connector S1. An additional serial device can be connected to the S2 connector.

Two 9-to-25-pin serial converters are optional with your system unit to increase serial device compatibility.



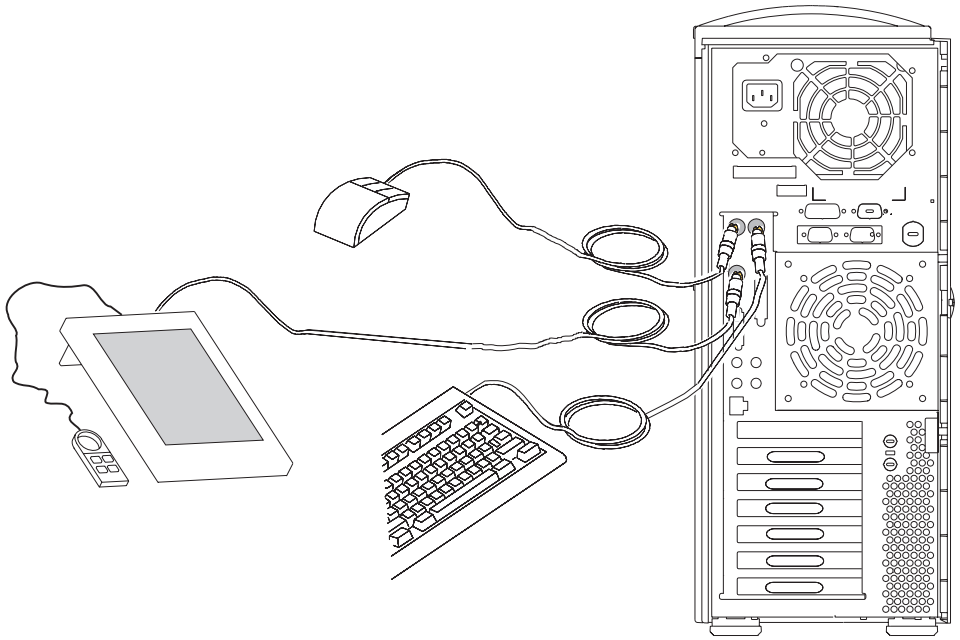
1 S1 Serial Connector

2 S2 Serial Connector

3 Parallel Connector

Step 13: Connect the Keyboard, Mouse, and Tablet

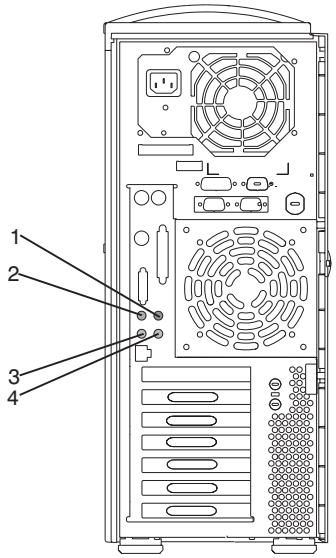
If you are using a keyboard, mouse, tablet, or other input device with your system unit, connect them to the appropriate connectors.



If a wrist/palm rest was included with your keyboard and you want to attach it, refer to the keyboard documentation for installation instructions.

Step 14: Connect the Audio Cables

If you are using earphones, microphone or audio equipment, connect the cables to the appropriate connector.



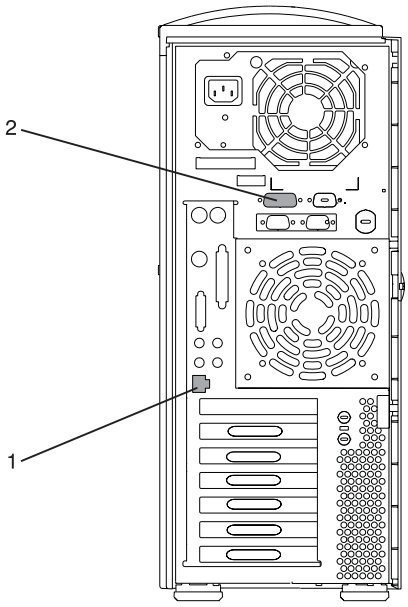
1 Audio line in
2 Audio line out
3 Headphone
4 Microphone

Step 15: Are You Using an Ethernet Connection?

Ask your system administrator if you are not sure. If you already connected your ethernet to an adapter in “Step 9: Connect the Adapter Cables” on page 5, or if you are not using Ethernet, go to “Step 18: Plug in the Power Cables” on page 15.

To connect the Ethernet cable, first determine which kind you have:

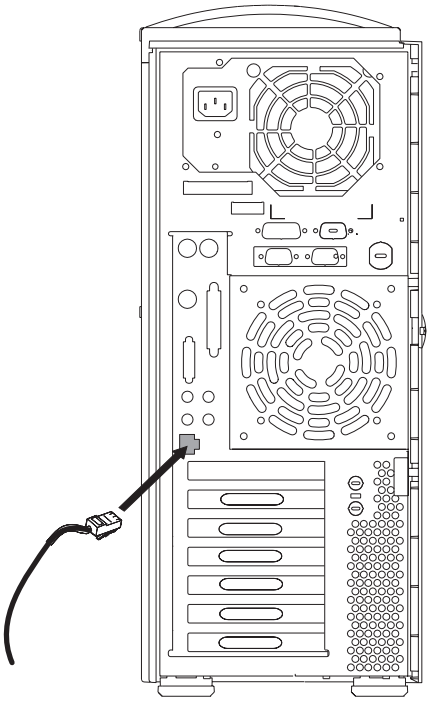
1. For Twisted-Pair (RJ-45,10/100 Base T), go to “Step 16: Connect Twisted-Pair Ethernet” on page 12.
2. For Thick (AUI - 10 Base 5), go to “Step 17: Connect Thick Ethernet” on page 13.



Step 16: Connect Twisted-Pair Ethernet

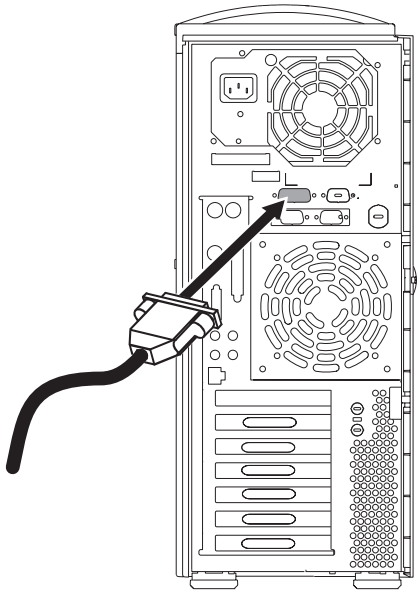
Note: The twisted-pair connecter is compatible with the IEEE 802.3 Ethernet network (10 Base T, 100 Base TX links enabled).

1. Connect the twisted-pair cable to the twisted-pair connector.
2. The twisted-pair Ethernet cable is now installed; go to “Step 18: Plug in the Power Cables” on page 15.

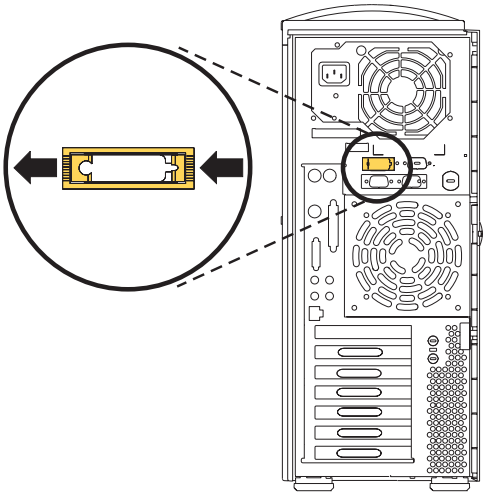


Step 17: Connect Thick Ethernet

1. Connect your thick Ethernet cable to the AUI connector.



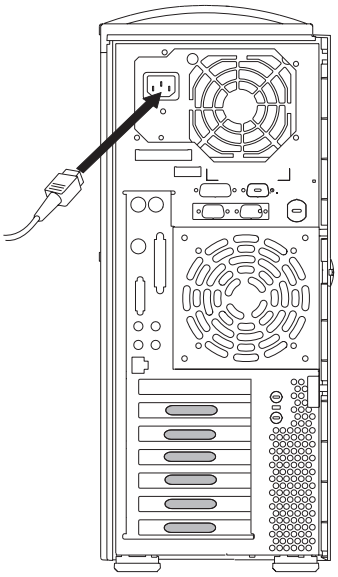
2. Lock the thick cable to the Ethernet connector by sliding the Ethernet connector toward the large notch.



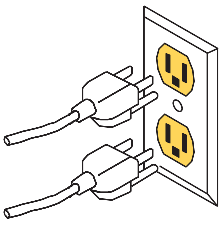
3. The thick Ethernet cable is now installed. Go to “Step 18: Plug in the Power Cables” on page 15.

Step 18: Plug in the Power Cables

1. Plug the power cable into the system unit.



2. Plug the power cables into the display and attached devices.
3. Plug these power cables into electrical outlets.



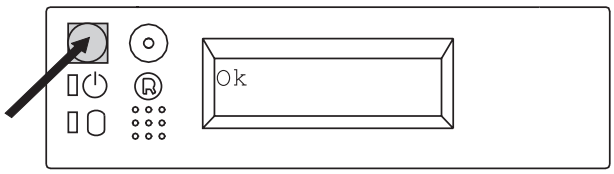
CAUTION:
This product is equipped with a three-wire power cable and plug for your safety. Use this power cable with a properly grounded electrical outlet to avoid electrical shock.

4. Wait for the operator panel to display 0k.

Step 19: Your System Unit Is Now Set Up

Arrange your system unit and attached devices so you can use them comfortably. For more information on arranging your workstation, visit the Healthy Computing Web site at: http://www.pc.ibm.com/us/healthycomputing

To power on your system unit, open the front panel and press the white power switch.



When you press the Power On switch, the Power On LED comes on and the system starts a POST (power-on self test). During POST, progress codes display in the operator panel display.

If the Power On light does not come on and there is no indication of power when you press the Power On switch, ensure that the power cord, located at the back of the system unit, is plugged into a grounded electrical outlet. If this does not solve the problem, go to the "Hardware Problem Determination" chapter in the RS/6000 7044 Model 170 User's Guide, order number SA38-0561. If the LED is not glowing and 0K is not displayed in the display, go to the "Using the Stand-alone and Online Diagnostics" chapter, also in the User's Guide.

Note: Be sure to maintain at least 76 mm (3 inches) of space at the rear of the system unit to allow for proper cooling.

Step 20: Go to Your Operating System Documentation

If an operating system has been preinstalled in your RS/6000 7044 Model 170 system, or if you are installing one, refer to the operating system installation documentation.

Communications Statements

The following statement applies to this product. The statement for other products intended for use with this product appears in their accompanying documentation.

Federal Communications Commission (FCC) Statement

Note: The RS/6000 7044 Model 170 has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 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.
- Consult an authorized dealer or service representative for help.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from authorized dealers. Neither the provider nor the manufacturer are responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

International Business Machines Corporation
New Orchard Road
Armonk, New York 10504
Telephone: (919) 543-2193



FOR HOME OR OFFICE USE

European Union (EU) Statement

This product is in conformity with the protection requirements of EU Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. The manufacturer cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of option cards supplied by third parties. Consult with your dealer or sales representative for details on your specific hardware.

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to CISPR 22 / European Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

International Electrotechnical Commission (IEC) Statement

This product has been designed and built to comply with IEC Standard 950.

United Kingdom Telecommunications Safety Requirements

This equipment is manufactured to the International Safety Standard EN60950 and as such is approved in the UK under the General Approval Number NS/G/1234/J/100003 for indirect connection to the public telecommunication network.

The network adapter interfaces housed within this equipment are approved separately, each one having its own independent approval number. These interface adapters, supplied by the manufacturer, do not use or contain excessive voltages. An excessive voltage is one which exceeds 70.7 V peak ac or 120 V dc. They interface with this equipment using Safe Extra Low Voltages only. In order to

maintain the separate (independent) approval of the manufacturer's adapters, it is essential that other optional cards, not supplied by the manufacturer, do not use main voltages or any other excessive voltages. Seek advice from a competent engineer before installing other adapters not supplied by the manufacturer.

Avis de conformité aux normes du ministère des Communications du Canada

Cet appareil numérique de la classe B est conform à la norme NMB-003 du Canada.

Canadian Department of Communications Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

VCCI Statement

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取扱説明書に従って正しい取り扱いをして下さい。

The following is a summary of the VCCI Japanese statement in the box above.

This product is a Class B Information Technology Equipment and conforms to the standards set by the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). This product is aimed to be used in a domestic environment. When used near a radio or TV receiver, it may becaome the cause of radio interference. Read the instructions for correct handling.

Radio Protection for Germany

Dieses Gerät ist berechtigt in Übereinstimmung mit dem deutschen EMVG vom 9.Nov.92 das EG–Konformitätszeichen zu führen.

Der Aussteller der Konformitätserklärung ist die IBM Germany.

Dieses Gerät erfüllt die Bedingungen der EN 55022 Klasse B.

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RS/6000 RS/6000 7044 Model 170 Setup Instructions

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	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied
Overall Satisfaction	□	□	□	□	□

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Please tell us how we can improve this book:

Thank you for your response. May we contact you? □ Yes □ No

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