
Section 3. Using the Displays

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About This Section

Read this section to become familiar with how to operate the:

- IBM 5151 Personal Computer Display
- IBM 5154 Personal Computer Enhanced Color Display
- IBM 6153 Advanced Monochrome Graphics Display
- IBM 6154 Advanced Color Graphics Display
- IBM 6155 Extended Monochrome Graphics Display
- IBM 5081 Color Graphics Display

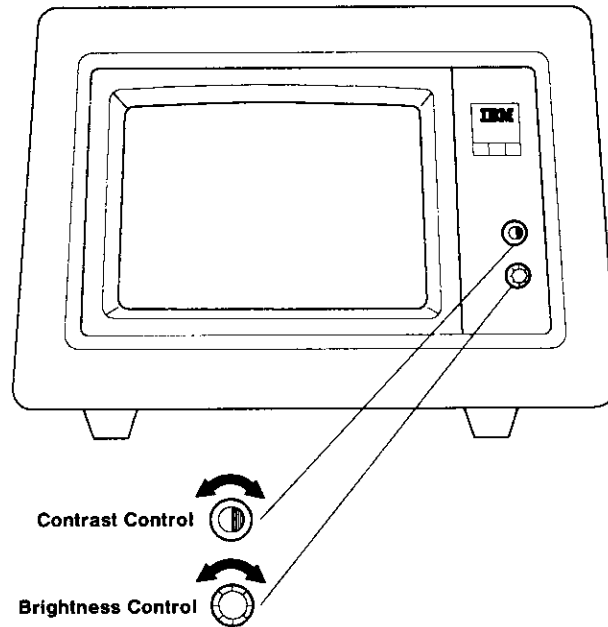
This section describes the features of the displays supported by the IBM RT PC System.

Introducing the Displays

A display is a device for visual presentation of information and is required for interactive transactions with the AIX Operating System. These displays have the following features:

- The IBM 5151 Personal Computer Display provides green characters on a grey background.
- The IBM 5154 Personal Computer Enhanced Color Display and IBM 6154 Advanced Color Graphics Display display simultaneously up to 16 colors out of a possible 64.
- The IBM 6153 Advanced Monochrome Graphics Display and IBM 6155 Extended Monochrome Graphics Display provide black characters on a white background or white characters on a black background.
- The IBM 5081 Color Graphics Display is an interactive display. It has a blue-black background with green characters.

IBM 5151 Personal Computer Display

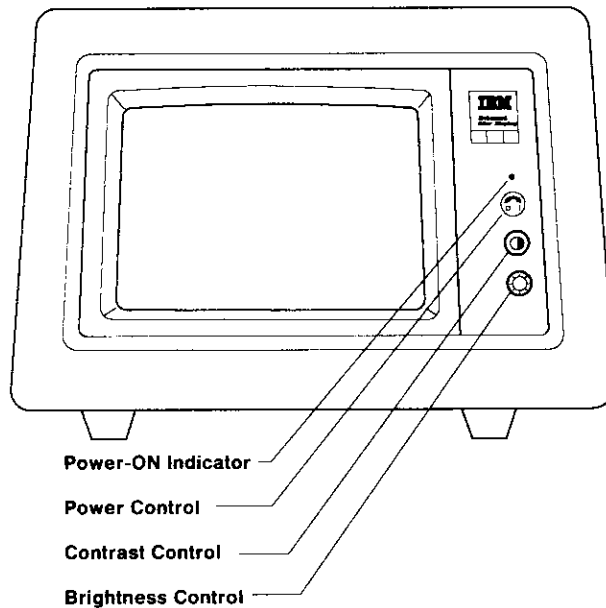


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The Brightness Control on the IBM 5151 Personal Computer Display increases the brightness of the entire screen when it is turned clockwise, and decreases the brightness when it is turned counterclockwise.

The Contrast Control increases the brightness of the data displayed on the screen when turned clockwise, and decreases the brightness when turned counterclockwise.

IBM 5154 Personal Computer Enhanced Color Display



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The Power Control turns on the IBM 5154 Personal Computer Enhanced Color Display when turned clockwise, and turns it off when turned counterclockwise. The Power-On Indicator lights when the display is turned on.

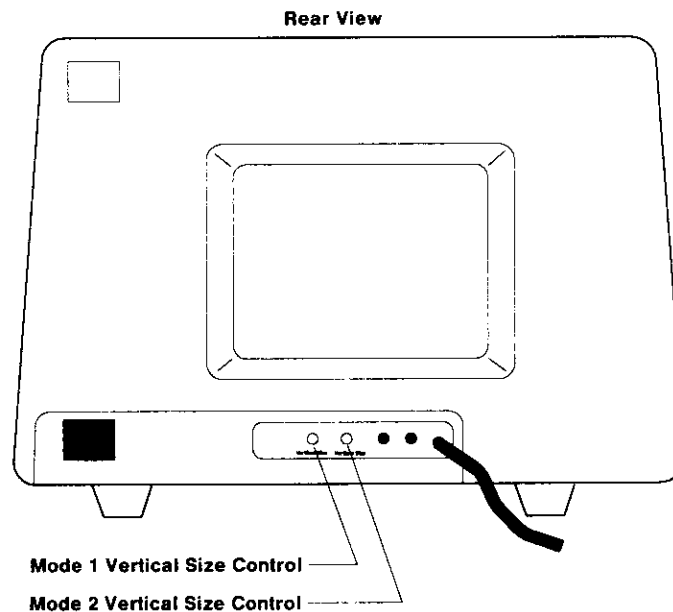
The Contrast Control changes the difference in intensity between the light and dark colors when it is pulled out and turned. The Contrast Control increases the contrast when it is turned clockwise, and decreases the contrast when it is turned counterclockwise. With the control pushed in, the contrast returns to a preset value.

The Brightness Control increases the intensity of the colors on the screen when it is turned clockwise, and decreases the intensity when it is turned counterclockwise.

Vertical Size Control Modes

You can modify the height of the figures on the screen with the two vertical size controls. Mode 1 Vertical Size Control is operational when the IBM 5154 Personal Computer Enhanced Color Display is in the Normal Color Mode. Mode 2 Vertical Size Control is operational when the IBM 5154 Personal Computer Enhanced Color Display is in the Enhanced Color mode. The Normal Color Mode and the Enhanced Color Mode are application controlled. These controls are independent of each other and operate in their particular mode.

If the vertical size needs adjustment, determine the mode you are using, and move the corresponding vertical size control until the display reaches your preferred setting.

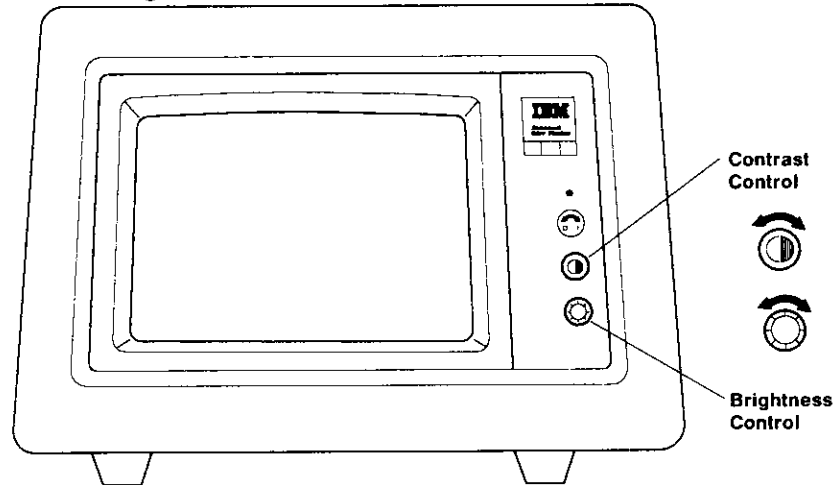


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Testing the Vertical Size Controls

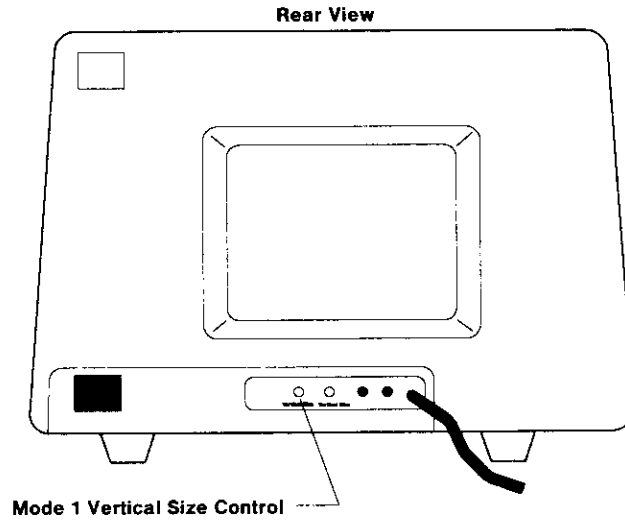
Use the following steps to test the Mode 1 Vertical Size Control and the Mode 2 Vertical Size Control.

1. Turn the power off to the system unit.
2. Turn the Power Control on.
3. Turn the Brightness and Contrast Control fully clockwise.



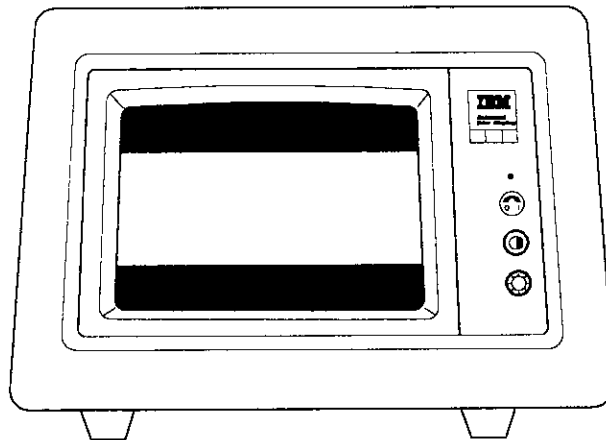
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4. Turn the Mode 1 Vertical Size Control fully counterclockwise.



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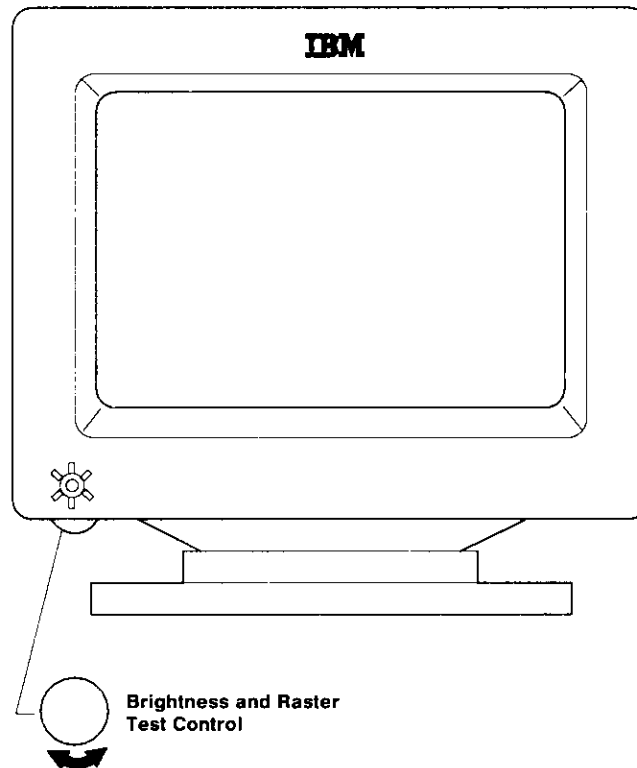
5. A black area should appear across the top and bottom of the screen.



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6. Turn the Mode 1 Vertical Size Control clockwise until the black areas at the top and bottom of the screen disappear. If one of the black areas disappears before the other, continue to turn the Mode 1 Vertical Size Control until the second black area is gone.
 7. Adjust the Brightness and Contrast Controls for eye comfort.
 8. Repeat steps 1-7 using the Mode 2 Vertical Size Control.

IBM 6153 Advanced Monochrome Graphics Display

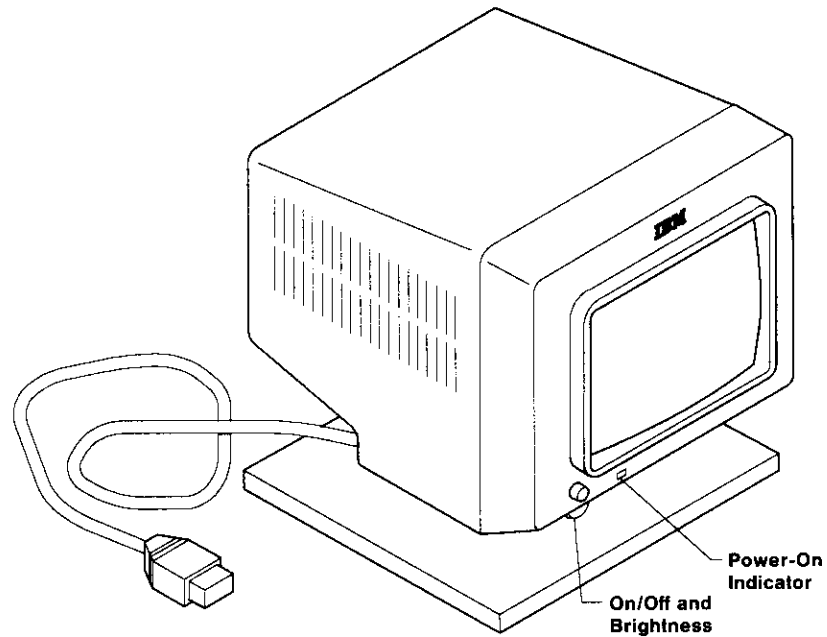


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The Brightness and Raster Test Control increases the intensity of the entire screen when it is turned clockwise and decreases the intensity when it is turned counterclockwise.

When the Brightness and Raster Test Control is turned fully clockwise, a **raster** is displayed regardless of any input to the monitor. A raster is a predetermined pattern of lines that provides uniform coverage of a display space. The raster position is used to test the display for proper operation. For normal operation, the Brightness and Raster Test Control should not be turned fully clockwise.

IBM 6154 Advanced Color Graphics Display

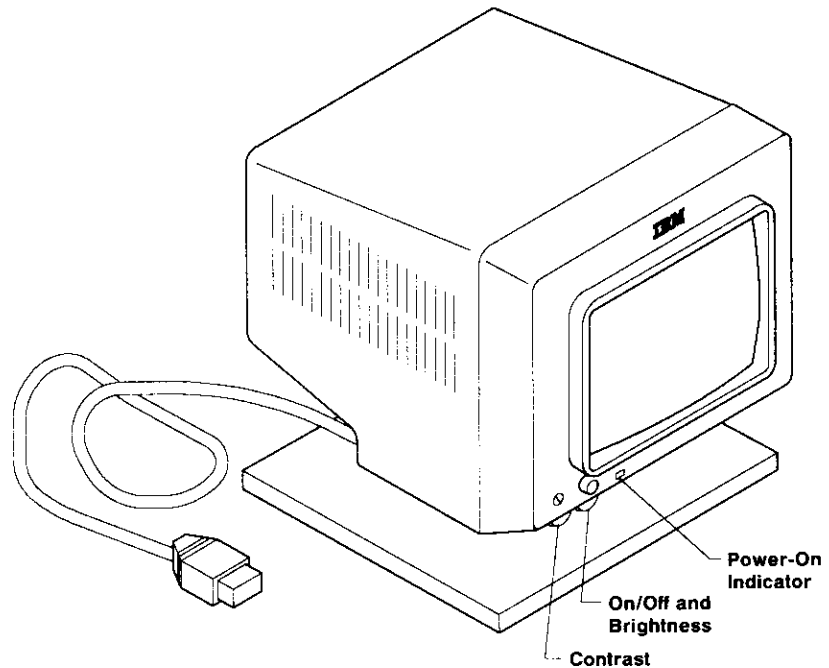


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The single control on the Advanced Color Graphics Display is used to power on the display and for brightness control. The Brightness Control increases the brightness of the entire screen when it is turned clockwise, and decreases the brightness when it is turned counterclockwise. The display power is turned off, when the Power On/Off and Brightness Control is turned fully counterclockwise.

The Power-On Indicator shows when power is available at the display.

IBM 6155 Extended Monochrome Graphics Display



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The Power On/Off and Brightness Control on the IBM 6155 Extended Monochrome Graphics Display turns the display power on or off and is used to increase or decrease the brightness. The brightness is increased when the control is turned clockwise. To decrease the brightness or turn the display power off, the control is turned counterclockwise.

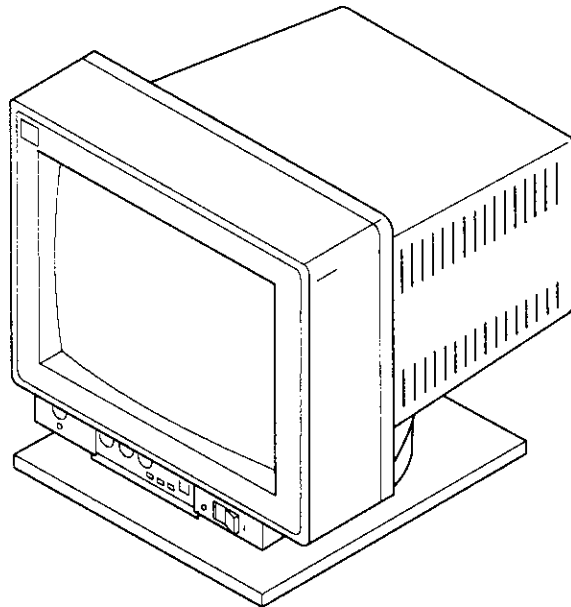
When the Contrast Control is turned clockwise, the intensity is increased. To decrease the intensity, the Contrast Control is turned counterclockwise.

The Power-On Indicator lights when the display is turned on.

IBM 5081 Color Graphics Display

The information in this section applies only to the IBM 5081 Color Graphics Display Models 16, 19, and 12, and to the 5081 Monochrome Graphics Display Model 11. The 5081 Display attaches to any IBM RT PC which has a Megapel Display Adapter installed. When connected to the IBM 5081 Color Graphics Display, the IBM RT PC functions as an interactive graphics workstation. You can tilt or turn the display on its base to fit your work needs. The following recommendations can make working at you display more comfortable:

1. To adjust the background brightness, load any application software. Adjust for your viewing comfort.
2. Avoid using blue characters on a dark background.
3. Avoid using a viewing distance of less than 20 inches.

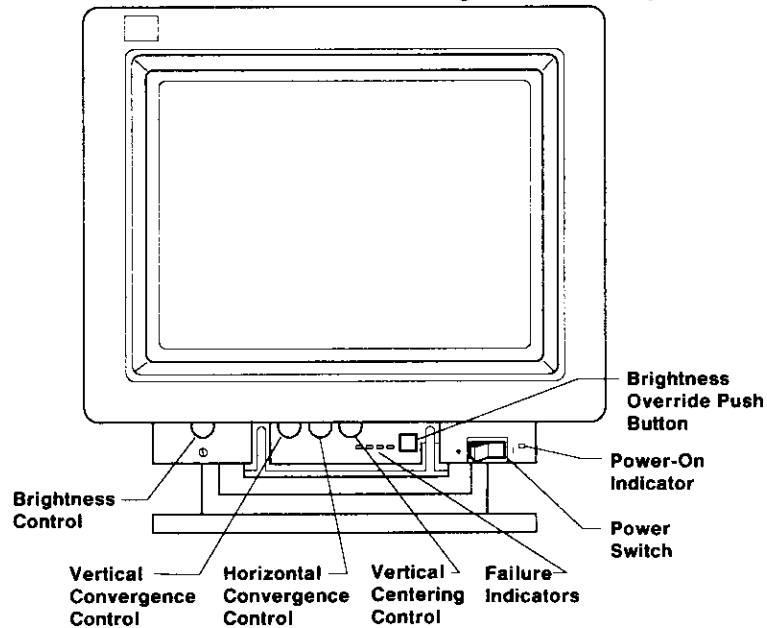


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Locating the Display Controls

This figure shows all the control buttons for the IBM 5081 Color Graphics Display. These buttons are located on the front of the display. Controls include the power switch, indicator lights, and picture quality controls.

The controls for the models 11 and 12 are similar to the controls for the models 16 and 19, but are arranged differently.



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Description Of Display Controls

Brightness Control

To increase the brightness of the display, turn the brightness control clockwise. Adjust the display to produce the amount of light with which you are most comfortable.

Vertical And Horizontal Convergence Controls

Since the color is adjusted in the factory, you generally will not have to make any adjustments. If, however, the colors

do not converge into solid lines, then adjust the vertical or horizontal convergence controls until they do.

Vertical Centering Control

If the image is not centered on the screen vertically, adjust the vertical centering control until it is.

Failure Indicators

These indicators are used by service personnel to diagnose display failures. If one or more of the red lights are on with no apparent display failure, turn the display off and then turn it on again to reset the indicators. If one or more of the red lights are on after you have done this, refer to the *IBM RT PC Problem Determination Guide*.

Brightness Override Button

The brightness override button may be pressed to verify that the display is operating properly when there is a loss of the video signal from the Megapel adapter. Pressing this button causes a background raster to appear. This may be done even when an image is on the screen.

Power Switch

To turn the power on, push in on the right side of the power switch. Push in on the left side of the switch to turn the power off.

Power-On Indicator

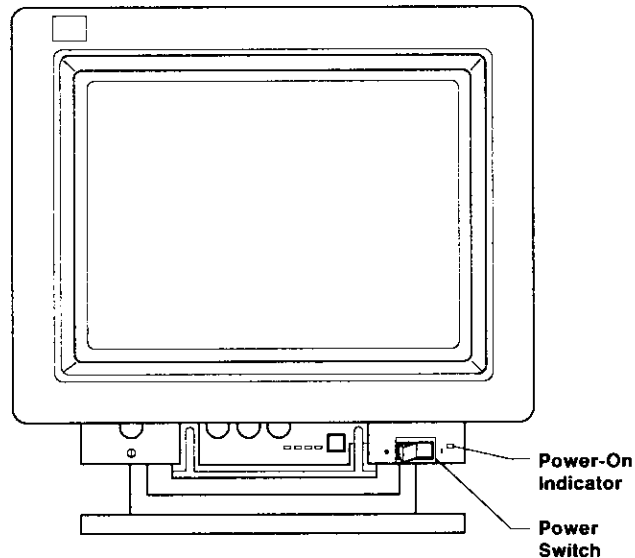
When the display is turned on, the power-on indicator lights up.

Turning the Display Power ON

Warning: Objects placed on top of the display block the air vents and could cause the display to overheat.

To turn the IBM 5081 Color Graphics Display on, press the Power Switch on the right side.

When the IBM RT PC is turned on, the system automatically begins the IPL process, displaying a series of numbers in the two-digit display window. When this process is complete, a **LOGIN** command appears on the screen. If this command does not appear, refer to the *IBM RT PC Problem Determination Guide*.



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Cleaning the Display

The display screen may be cleaned with IBM Thin Film Cleaner (#7034436) or its equivalent. Do not use abrasive cleaners or cleaners containing silicone.

Using Additional View-Only Displays

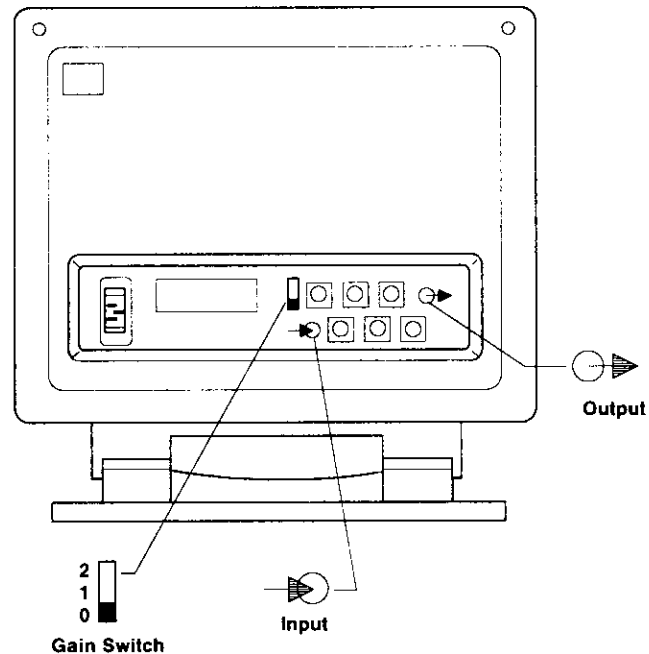
You can connect one IBM 5081 Color Graphics Display to the IBM RT PC to create an interactive graphics workstation. You can also attach up to four view-only displays in a daisy-chain format.

However, when you add additional displays, you may experience some signal loss if the length of the cable between any two displays is longer than 66 feet. The principal way to correct for this loss is to reset the gain switch. Adjusting the gain switch on any one of the displays will affect the strength of the signal to the next display. It will have no effect on the strength of the signal to the display whose gain switch is being adjusted.

The gain switch, located at the back of the IBM 5081 Display, has three positions: 0, 1, and 2. On the IBM 5081 models 16 and 19, this switch controls the OUTPUT signal level, which is the INPUT signal received by the next display on the video link. On the IBM 5081 models 11 (monochrome) and 12, the switch controls the INPUT signal level to the current display. It does not effect the OUTPUT signal level for the subsequent display.

As an approximate guide, use gain position 0 for video cable lengths of up to 66 feet between any two displays, position 1 for cable lengths between 66 and 197 feet between any two displays, and position 2 for lengths between 197 and 328 feet between any two displays.

Note: There will be some reduction in signal strength whenever the distance between displays is greater than 66 feet, even when the gain switch is set on 1 or 2. In addition, the total amount of cable used between all of the displays should not exceed 328 feet.



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To select the most effective gain switch setting for each view-only display, use the following procedure:

1. If you are already in AIX, type and enter the command **Shutdown**.
2. When **Shutdown** is complete, Turn the system off.
3. Turn the brightness control on each display all the way up (clockwise).
4. Insert the IBM RT PC Diagnostic Diskette #1 in Drive A, and turn the system on. The system will automatically IPL.
5. The **DIAGNOSTIC OPERATING INSTRUCTIONS** display. Read them and then press **Enter** to continue.
6. When the **FUNCTION SELECTION** menu displays, choose Diagnostic Routines.

Note: If you have changed your configurations since the previous session or if a component is malfunctioning, the TEST OPTION menu displays. This is followed by the DIAGNOSTIC TEST LIST menu. Follow the instructions.

7. The DIAGNOSTIC SELECTION menu displays.
8. Choose the RT PC Megapel Processor And Printer Adapter In Slot X Checkout.
9. When prompted, change diskettes in drive A. The TEST METHOD SELECTION menu will display.
10. Choose, Run Test One Time.
11. The screen is blank for 1 to 2 minutes while the diagnostics check the Megapel adapter and, if the port is enabled, the printer port. When the diagnostics finish, the message Testing The Megapel Processor And Printer Adapter displays.
12. The system is now ready to display the Crosshatch Pattern. Press **Enter**.
13. The Crosshatch Pattern displays. Follow the displayed instructions to check the adjustment of the IBM 5081 interactive display and the adjustment of all attached view-only displays. The interactive display is connected directly to the Megapel adapter.
14. If adjustment is needed refer to appendix A, "IBM 5081 Color Graphics Display Test Patterns" in the *IBM RT PC Problem Determination Guide*. If adjustment is necessary, each display in the series should be adjusted one after the other starting with the interactive display.
15. Press **End** when all of the displays are adjusted correctly.
16. A message displays asking if the IBM 5081 display is adjusted correctly.

If the answer is no, type the number 2 and press **Enter**. A Service Request Number (SRN) displays. Follow the instructions.

If the answer is yes, type the number 1 and press **Enter**. The message Testing IBM Megapel Processor And Printer Adapter displays. The system is now ready to display the Color Bar Pattern. Press enter.

17. The Color Bar Pattern displays. Follow the displayed instructions to check the adjustment of the IBM 5081 interactive display and the adjustment of all attached view-only displays.
18. If adjustment is needed refer to appendix A, "IBM 5081 Color Graphics Display Test Patterns" in the *IBM RT PC Problem Determination Guide*. If adjustment is necessary, each display in the series should be adjusted one after the other starting with the interactive display.
19. A message displays asking if the color bar is adjusted correctly.

If the answer is no, type the number 2 and press **Enter**. A Service Request Number (SRN) displays. Follow the instructions.

If the answer is yes, type the number 1 and press **Enter**. The message No Trouble Found displays.
20. To exit, remove the diskette from the disk drive.
21. Press CTRL, ALT, and PAUSE simultaneously.
22. The system returns you to the Login screen.

Section 4. Using Other Input Devices

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About This Section

Read this section to become familiar with the following input devices:

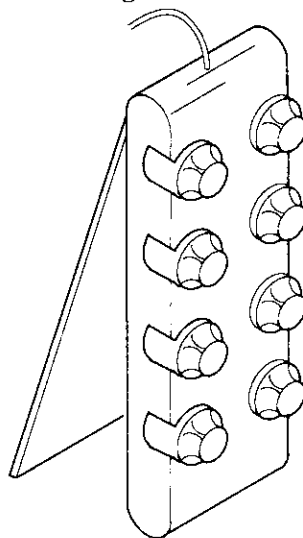
- IBM 5080 Dials Feature
- IBM 5083 Tablet
- IBM 5080 Lighted Program Function Keyboard Feature

This section describes the use of these devices.

IBM 5080 Dials Feature

The IBM 5080 Dials Feature is a compact, desktop unit with eight conelike controls that are easily turned with your fingers. The controls, or dials, are arranged in two columns of four dials. The direction and extent to which you turn the controls is transmitted through the IBM RT PC to the 5085 system for interpretation by the application program.

Normal use of the dials includes panning, zooming, and rotation of two- and three-dimensional images.

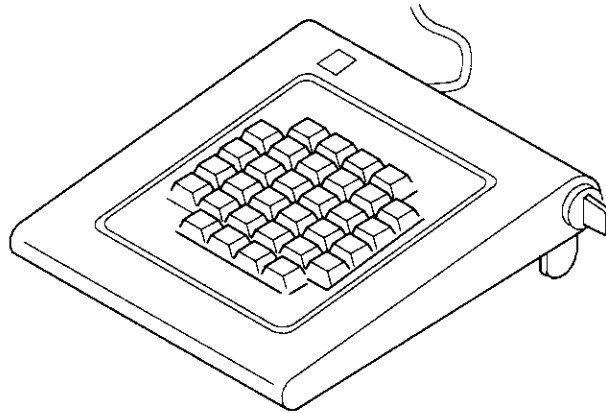


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IBM 5080 Lighted Program Function Keyboard Feature

The Lighted Program Function Keyboard Feature (LPFK) is a separate keyboard with 32 keys. Each key can be lit. The lights are controlled by interactive graphics application programs. The programs can turn the lights on or off to show the keys you may select at any given time.

A test switch located at the back of the LPFKs is used to verify that all of the lights are working correctly.



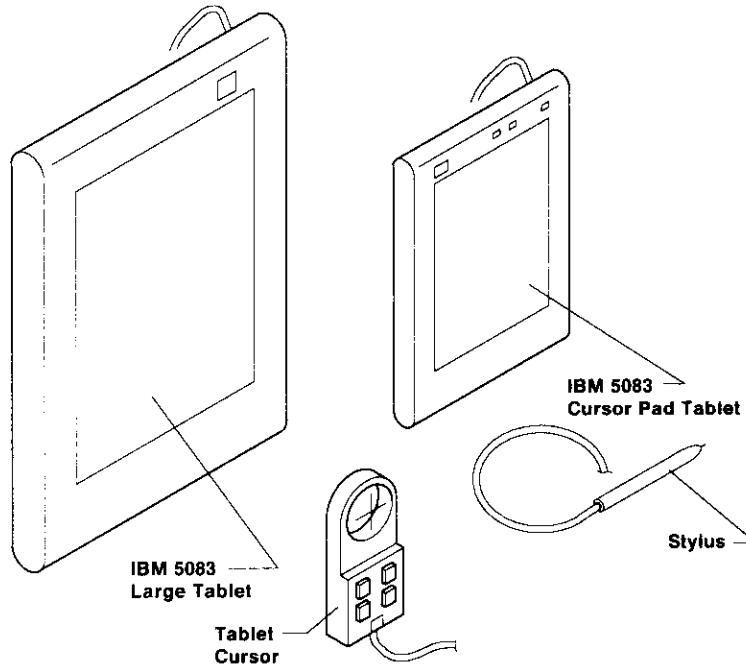
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IBM 5083 Tablet

The IBM 5083 Tablet is a thin, flat device which you may operate with either the tablet cursor or stylus.

The tablet cursor is a mouse-like device with four buttons. When the cursor is moved on the surface of the tablet, the tablet provides the location to the software. When the buttons are pressed, the tablet provides an identifying code to the software.

The stylus is a pen-like device used to point to a position on the surface of the tablet. When the stylus is pressed, the tablet provides the location of the stylus to the software.



AS06A062

Section 5. Moving the System

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Moving the IBM 5081 Color Graphics Display	5-16

About This Section

This section helps you prepare either the IBM 6150 System Unit or the IBM 6151 System Unit to be moved.

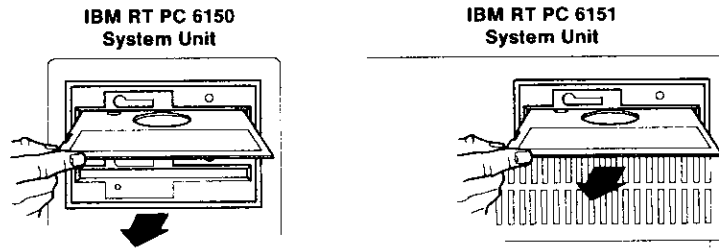
The section also provides detailed instructions for packing the IBM 6150 System Unit, which requires special handling.

See the section on the IBM 5081 Color Graphics Display for instructions on moving the display.

Before the Move

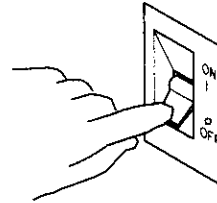
Perform the following steps before you pack the system unit for the move.

1. Before you move the system, make backup copies of the information stored on the fixed-disk drives. See *Using and Managing the AIX Operating System* for instructions on backing up data.
2. Remove any diskettes from the diskette drives.



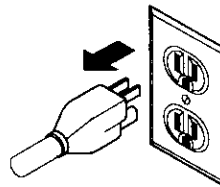
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3. Turn off the power on *all* devices.



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4. Unplug all power cables from the electrical outlets.

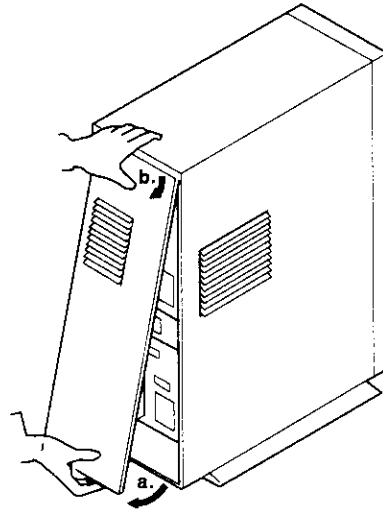


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5. Remove the rear cover from the system unit.

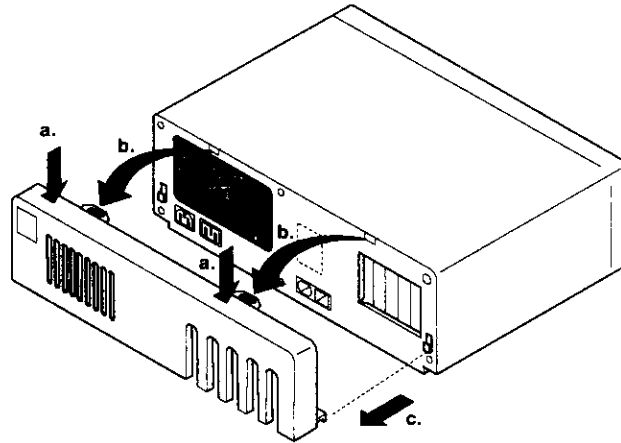
- IBM 6150 System Unit

- a. Snap the bottom free of the unit.
- b. Lower the cover until the hooks are free of the frame.



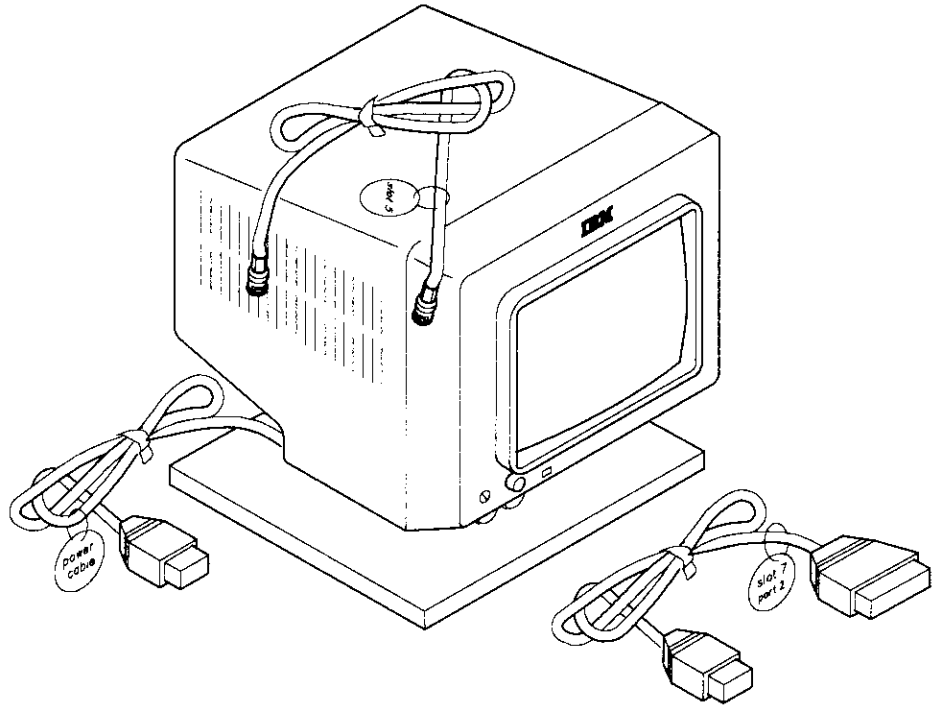
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-
- IBM 6151 System Unit.
 - a. Push down on the cover.
 - b. Free the hooks from the loops.
 - c. Free the bottom hooks from the frame.



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6. Unplug, coil, and tape *all* cables. Label the cables to ensure that you recable the system correctly.



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What Type of Move Are You Making?

If you move the devices within the same building, you do not need to pack the devices in cartons. See "Short Distance Move" on page 5-9.

If you transport the devices in a vehicle, pack them in shipping cartons. See "Packing for a Long Distance Move" on page 5-11.

Short Distance Move

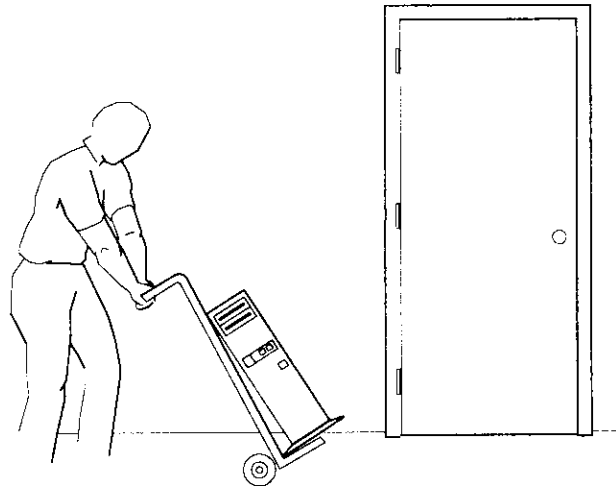
Although you do not have to pack the devices in cartons to move them within the same building, handle all devices carefully.

Warning: To prevent loss of data, move the system units carefully to avoid damaging the fixed-disk drives.

IBM 6150 System Unit

CAUTION

Two or more people should lift the IBM 6150 System Unit, which weighs up to 42 kg (92 lb). Use a dolly if possible.

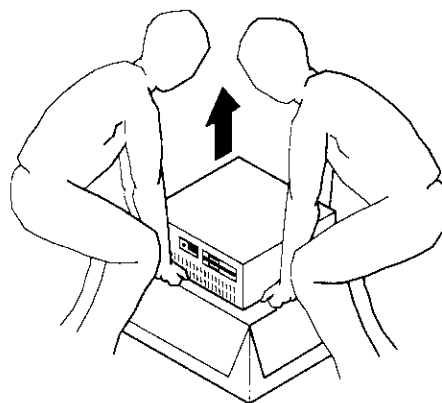


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IBM 6151 System Unit

CAUTION

Two or more people should lift the IBM 6151 System Unit, which weighs 25 kg (56 lb).



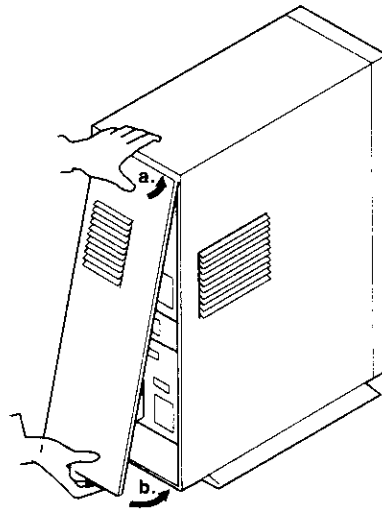
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Packing for a Long Distance Move

To provide the best protection, use the original packing materials or materials designed for each device. If you do not have the correct packing materials, contact the point of purchase to obtain them.

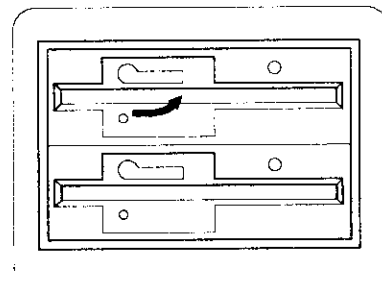
Use the following instructions for packing the IBM 6150 System Unit:

1. Snap the rear cover into position.



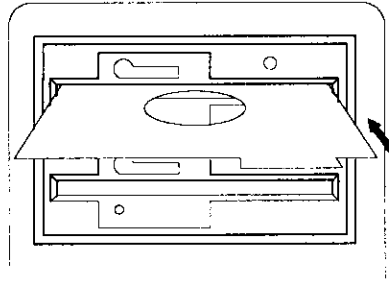
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2. Open the diskette drive.



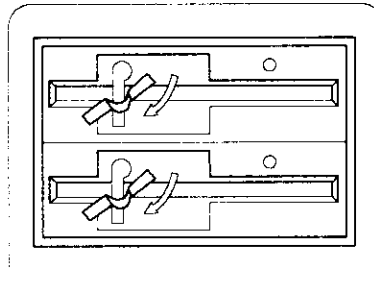
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3. Insert the shipping card.



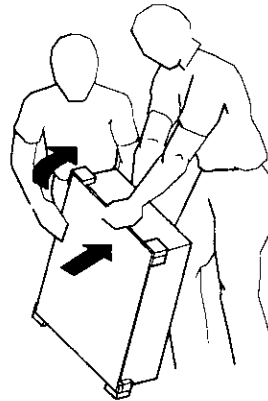
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4. Close the lever and tape it in position.



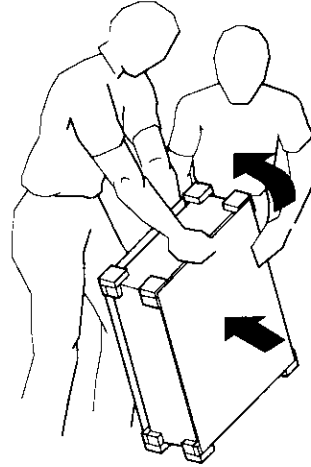
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5. Tilt the unit to one side and put the packing pad in place.



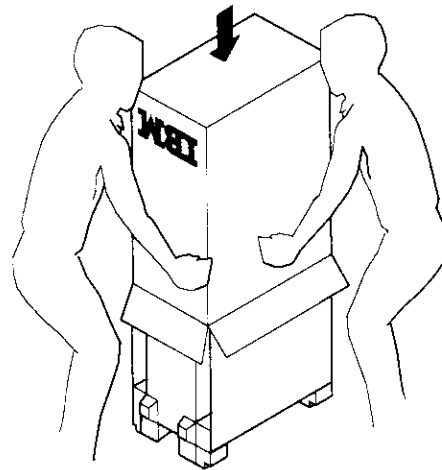
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6. Tilt the unit to the other side, putting the other packing pad in place.



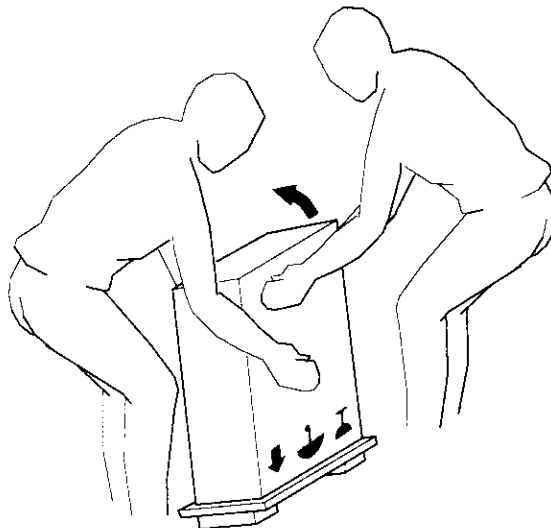
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7. Lower the carton onto the system unit.



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8. Lay the unit on its side and tape the flaps shut.



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Warning: The unit is shipped upside down because it is top heavy and is more stable upside down.

Ensure that the end of the shipping carton containing the base of the unit is labeled "Open This End" and that the graphics on the carton point upward toward the base. The base of the unit should come out of the carton first when the unit is unpacked.

After the move, use the forms and the instructions stored in the *IBM RT PC User Setup Guide* and follow the setup, cabling, and testing procedures.

Moving the IBM 5081 Color Graphics Display

The IBM 5081 Display must be disconnected from the IBM RT PC prior to relocating the system.

Disconnecting the IBM 5081 Color Graphics Display

1. Remove the power cord plug from the wall socket.
2. Remove the power connector from the rear left corner of the display.
3. Disconnect the cable on the right rear of the display by turning the knurled portion of each plug counterclockwise until it unlocks. Slide the plug off the receptacle.
4. Coil and tape all cables. Label the cables to ensure that you can recable the system correctly.

CAUTION

Do not lift the IBM 5081 Display by yourself.

Short-Distance Moves

For point-to-point moves that do not require trucking, use a pushcart to move the IBM 5081 Display. Be sure to place the display securely on the cart.

Long-Distance Moves

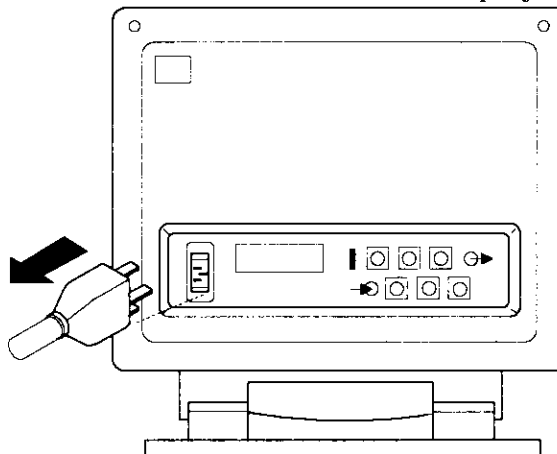
If you saved the original packing material, use it to repack your IBM 5081 Display. If you use a new carton, be sure the unit is well cushioned.

Installation at Your New Location

For instructions on how to set up the IBM 5081 Display, refer to the *IBM RT PC User Setup Guide*.

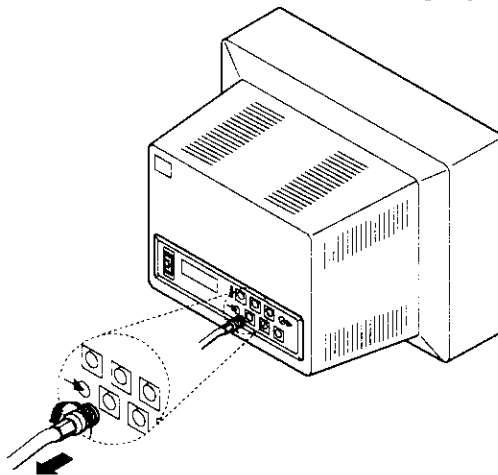
Moving the IBM 5081 Color Graphics Display

Remove the power cord from the rear of the display.



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Disconnect the cables from the rear of the display.



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Section 6. Printers

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About This Section

Specific operating information for each printer attached to an IBM RT PC System can be found in the operator's guide for that printer. The operator's guide is shipped with the printers. For convenient reference, you can insert the printer documentation in this section.

For information on attaching the printer to the IBM RT PC System, see the *User Setup Guide*.

Section 7. Plotters

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About This Section

Specific operating information for each plotter attached to an IBM RT PC System can be found in the operator's guide for that plotter. The operator's guide is shipped with the plotter. For convenient reference, you can insert the plotter documentation in this section.

For information on attaching the plotter to the IBM RT PC System, see the *User Setup Guide*.

Section 8. Terminals

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About This Section

Operating instructions for terminals supported by IBM RT PC can be found in the operator's guide for the terminal. The operator's guide is shipped with the terminals. For convenient reference, you can insert the guide in this section.

Section 9. IBM 6157 Streaming Tape Drive

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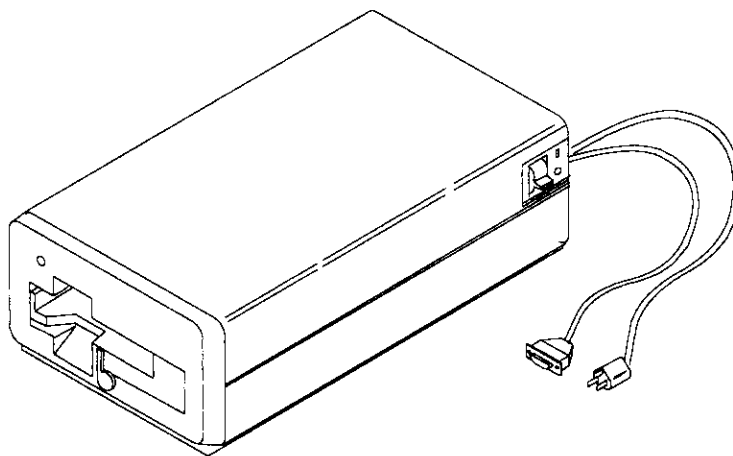
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About This Section

The manual, *IBM 6157 Streaming Tape Drive Setup and Operating Instructions* is shipped with the streaming tape drive and explains its operation. You can insert the instructions in this section for convenient reference.

IBM 6157 Streaming Tape Drive

The IBM 6157 Streaming Tape Drive provides a convenient way to store data. The streaming tape drive may be disconnected from the system when not in use.



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Section 10. IBM RT PC 6192 Expansion Unit

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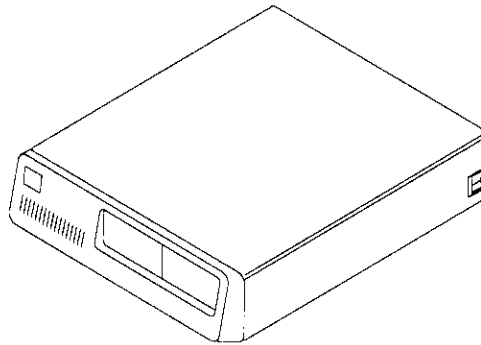
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About This Section

This section briefly describes the IBM RT PC 6192 Expansion Unit. For a complete description and explanation, see the *IBM RT PC 6192 Expansion Unit Setup and Options Installation*.

Introducing the IBM RT PC 6192 Expansion Unit

The IBM RT PC Expansion Unit has six communication adapter slots. Once you have installed the adapters you need, you can attach an optional communications device to each adapter. The seventh slot in the expansion unit is used to connect the expansion unit to the system unit.



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**Section 11. IBM 6156 Portable Disk Drive Model 001
and Model 003**

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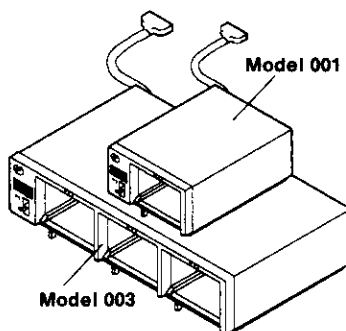
About This Section

This section briefly describes the IBM 6156 Portable Disk Drive. For a complete description and explanation, see the *IBM 6156 Portable Disk Drive Setup, Operations and Technical Information* for IBM RT PC.

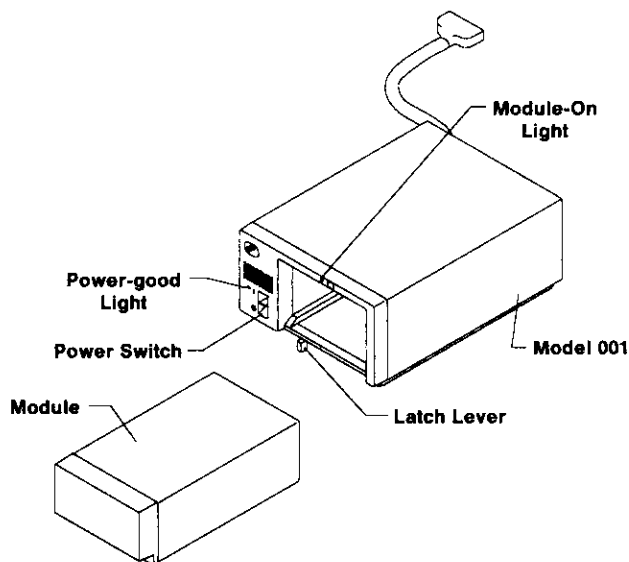
Introducing the IBM 6156 Portable Disk Drive

The IBM 6156 Portable Disk Drive permits the attachment of external disk storage to the IBM RT PC. The Portable Disk Drives contain one or more disk drive modules which can be easily removed for storage away from the base system.

The Model 001 holds one and the Model 003 holds up to three disk drives modules.



AS06A107



AS06A104

Glossary

application program. A program used to perform an application or part of an application.

button. A key on a mouse that is used to select buttons on the display screen or to scroll the display image.

byte. The amount of storage required to represent one character; a byte is 8 bits.

character delete. In text data, the action that erases the character at the current cursor location and moves any trailing text one character position to the left.

character key. A keyboard key that allows the user to enter the character shown on the key. Compare with function keys.

character position. On a display, each location that a character or symbol can occupy.

character set. A group of characters used for a specific reason; for example, the set of characters a printer can print or a keyboard can support.

color display. A display device capable of displaying more than two colors and the shades produced via the two colors, as opposed to a monochrome display.

cursor. A movable symbol (such as an underline) on a display, used to indicate to the operator where the next typed character will be placed.

cursor movement keys. The directional keys used to move the cursor without altering text.

delete. To remove. For example, to delete a file.

diskette. A thin, flexible magnetic plate that is permanently sealed in a protective cover. It can be used to store information copies from the disk.

diskette drive. The mechanism used to read and write information on diskettes.

display device. An output unit that gives a visual representation of data.

display screen. The part of the display device that displays information visually.

enter. Send information to the computer by pressing the Enter key.

fixed disk. A flat, circular, nonremoveable plate with a magnetizable surface layer on which data can be stored by magnetic recording.

fixed-disk drive. The mechanism used to read and write information on fixed disk.

formatted diskette. A diskette on which control information for a particular computer system has been written but which may or may not contain any data.

function keys. Keys that request actions but do not display or print characters. Included are the keys that normally produce a printed character, but when used with the code key produce a function instead. Compare with character key.

graphic character. A character that can be displayed or printed.

graphics. A type of data created from fundamental drawing units such as lines, splines, curves, and polygons.

hard file. See *fixed disk*.

hardware. The equipment, as opposed to the programming, of a system.

ID. Identification.

initial program load (IPL). The process of loading the system programs and preparing the system to run jobs.

IPL. See initial program load.

K-byte. See *kilobyte*.

key pad. A physical grouping of keys on a keyboard (numeric keypad, cursor keypad, etc.).

keyboard. An input device consisting of various keys allowing the user to input data, control cursor and pointer locations, and to control the user and workstation dialogue.

keylock feature. A security feature in which a lock and key can be used to restrict the use of the display station and the system unit.

kilobyte. 1024 bytes.

label. The name in the disk or diskette volume table of contents that identifies a file.

log in (v). To sign on at a work station.

log off (v). To sign off at a work station.

M-byte. See megabyte.

megabyte. 1,048,576 bytes.

mouse. A locator device hand-operated by moving it on a surface. The mouse is used to provide cursor positioning and graphic input.

password. A string of characters that, when entered along with a user identification, allows an operator to login to the system.

pointing. The action of positioning the pointing cursor on a displayed object.

pointing cursor. A cursor used to point to and select buttons, to activate panes, and to scroll the contents of the active

pane. The pointing cursor is controlled by the mouse.

power-on light. A light on the operator panel that indicates that the DC power in the system unit is okay.

Power On Self Test (POST). An internal diagnostic program activated each time the system is turned on.

problem determination. The process of identifying why the system is not working. Often this process identifies programs, equipment, data communications facilities, or user errors as the source of the problem.

problem determination procedure. A prescribed sequence of steps aimed at recovery from, or circumvention of, problem conditions.

process. (1) A sequence of discrete actions required to produce a desired result. (2) An entity receiving a portion of the processor's time for executing a program. (3) An activity within the system begun by entering a command, running a shell program, or being started by another process.

program. A file containing a set of instructions conforming to a particular programming language syntax.

raster array. In computer graphics, a predetermined arrangement of lines that provide uniform coverage of a display space.

reset. To return a device or circuit to a clear state.

screen. See *display screen*.

security. The protection of data, system operations, and devices from accidental or intentional ruin, damage, or exposure.

special character. A character other than an alphabetic or numeric character. For example, *, +, and % are special characters.

system. The computer and its associated devices and programs.

system unit. The part of the system that contains the processing unit, the fixed-disk drive and the fixed disk, and the diskette drive.

text. A type of data consisting of a set of linguistic characters (for example, alphabet, numbers, symbols) and formatting controls.

text cursor. A cursor that indicates where to type the next character. The text cursor is controlled by the keyboard.

two-digit display. Two seven-segment light-emitting diodes (LEDs) on the operator panel used to track the progress of power-on self-tests (POSTs).

virtual resource manager (VRM). A set of programs that manage the hardware resources (main storage, disk storage, display stations, and printers) of the system so that these resources can be used independently of each other.

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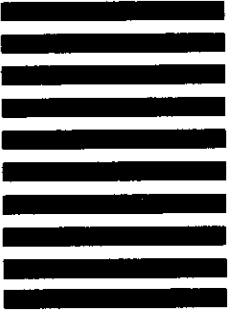
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