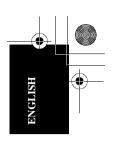
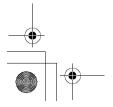


English

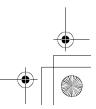


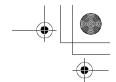














First Edition (June/2000)

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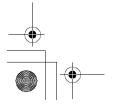
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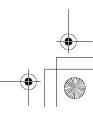
IBM HelpCenter

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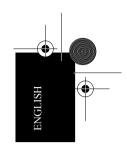
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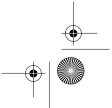




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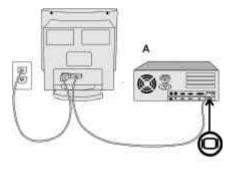


Important: Before connecting the monitor, turn off the computer and attached devices. Also, ensure the power at the electrical outlet matches the power requirements of the monitor. Refer to the **Specifications** section on page 14 for more details.

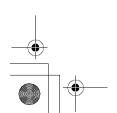
Connecting your monitor

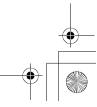
- Step 1. Connect the signal cable to the video port on the back of your computer. This port might be directly attached to your computer (figure A), or it might be part of a video adapter card (figure B).
- Step 2. Connect the power cord to the monitor first, then firmly insert the plug into a properly grounded electrical outlet.
- Step 3. Turn on the monitor, and then the computer.

If your monitor does not seem to be working correctly, refer to the *Troubleshooting* section starting on page 15 for help.





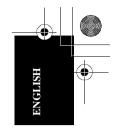












Monitor Installation Diskette for Windows 95 or 98 users

When you start your system after connecting the monitor, Microsoft® Windows® 95 or Windows 98 detects that you have added new hardware and selects a default setting. For best performance, install the files from the diskette supplied with your IBM monitor using the following instructions:

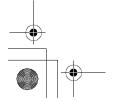
- 1. Click Start.
- 2. Select **Settings**.
- Click Control Panel. The Control Panel window opens.
- 4. Double-click the **Display** icon. The Display Properties window opens.
- 5. Click the **Settings** tab.
- 6. Click Advanced Properties.
- 7. Click the **Monitor** tab.
- 8. Click Change.
- 9. Insert the diskette into the diskette drive and then click **Have Disk**.
- 10. Click **OK**.
- 11. Select your monitor type and then click **OK**. The files will be copied to your computer from the diskette.
- 12. Close all windows and remove the diskette from the diskette drive.
- 13. Restart the system.

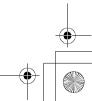
Monitor Installation Diskette for Windows 2000 users

When you start your computer after connecting the monitor, Microsoft Windows 2000 Professional detects that you have added new hardware and selects a default setting. For best performance, install the files from the diskette supplied with your IBM monitor using the following instructions:

- 1. Click Start.
- 2. Select Settings.
- Click Control Panel. The Control Panel window opens.
- 4. Double-click the **Display** icon. The Display Properties window opens.
- 5. Click the **Settings** tab.
- 6. Click Advanced.
- 7. Click the Monitor tab.
- 8. Click **Properties**.
- 9. Click the **Driver** tab, and then click **Update Driver** to open the Upgrade Device Driver Wizard window.
- 10. Click Next.
- 11. Verify that Display a list of the known drivers for this device so that can choose a specific driver is selected.
- 12. Click Next.
- 13. Insert the diskette into the diskette drive and click **Have Disk**.
- 14. Click **OK**.

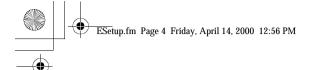


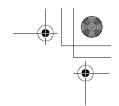












15. Select your monitor type and click **OK**. The files will be copied to your computer from the diskette.

16. Close all windows and remove the diskette from the diskette drive.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States or other countries or both.

Workplace Preparation

Positioning the Monitor

Choose a suitable place to position the monitor where it is not near fluorescent desk lighting or any equipment that produces magnetic fields that could cause interference. Ensure that the furniture or equipment can support the weight of the monitor. Allow at least 2 inches (50mm) ventilation space around the monitor.

Height

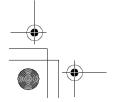
The monitor should be positioned so that the top of the screen is slightly below your eye level when you sit at your workstation.

Orientation

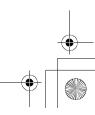
Choose a position that gives the least reflection from lights and windows, usually at a right angle to any windows. The monitor should be positioned directly in front of you so that you do not have to twist your body. Tilt the monitor to a comfortable viewing angle.

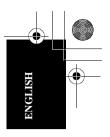












Working Practices

Rest

Take regular breaks. Vary your posture, and stand up and stretch occasionally as prolonged use of computer workstations can be tiring.

Back

You should sit back in the chair and use the backrest.

Hands

Use a light touch on the keyboard, keeping your hands and fingers relaxed. Allow a space in front of the keyboard to rest your wrists when not typing. Consider using a wristpad.

Eyesight

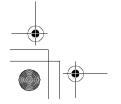
Working with monitors, in common with any prolonged close work, can be visually demanding. Look away from the screen periodically and have your eyesight checked regularly.

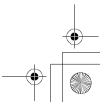
Screen settings

Set the screen brightness and contrast to a comfortable level. You may have to adjust this as the lighting changes during the day. Many application programs let you select color combinations which can help you to view in comfort.



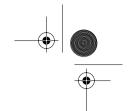






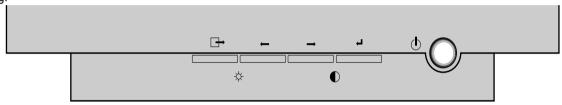






User controls

The image is already optimized for many display modes. however, the controls can be used to adjust the image to your liking.



	Button	Description
ڻ ٺ	Power switch	Switches the monitor on and off.
← →	Adjustment buttons	Allow you to move around the on-screen display (OSD) menu and to make adjustments.
4	OSD/Select	Activates the On-Screen-Display / selects control icons / locks the OSD to prevent changes. See page 11.
4	EXIT	Closes an active menu window and takes you to the previous level. If you are in the main level of the menu, pushing this button will turn off the menu. Important: Holding in this button for longer than 5 seconds erases all data in the User Settings memory.





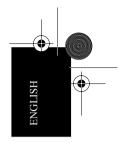












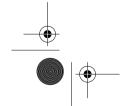
Brightness and contrast can be adjusted as follows, without the need to display the OSD:

Select the function and use the
and
buttons to adjust. If adjustment is not made within 15 seconds, the current settings will be saved and the control screen will disappear automatically.

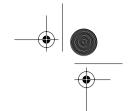
Icon	Control	Description
←	BRIGHTNESS	Adjusts the background brightness
→	CONTRAST	Adjusts the contrast between foreground and background



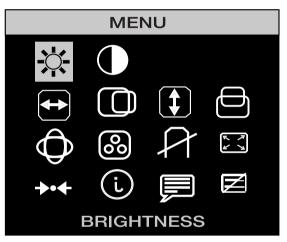




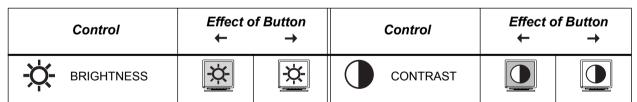


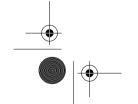


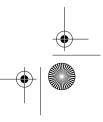
On-Screen Display (OSD)

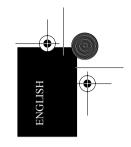


To display the OSD, press the → button. While the menu displays on the screen, you can select a control using ← or → button. When the required control is highlighted, push the → button to activate the control and then use ← and → buttons to make adjustments.

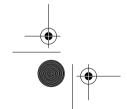


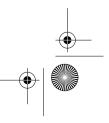


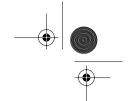




Control	Effect o	ect of Button → Control		Effect o	of Button →
WIDTH	<u>AZ</u>	AZ	† HEIGHT	AZ	AZ
H-POSITION	AZ	AZ	V-POSITION	AZ	AZ
ADVANCED	Select this icc area.	on to access th	ne following controls that affe	ct the shape o	f the viewing
PINCUSHION	RZ		BALANCED PINCUSHION	AZ	AZ
TRAPEZOID	AZ	A	ROTATION		<u> Az</u>
PARALLELOGRAM	AZ	AZ	MOIRÉ	AZ	AZ







		7
	J	リ

Cor	ntrol	Effect of Button ← →		Button Control		Effect o	of Button →
	TICAL EARITY			ΠŢ	VIDEO INPUT LEVEL	ΓŒ	ſŢ
		9300K	6500K			YES	NO
		User Color 1	User Color 2			Select YES and push the button to remove	
© COL	OR	Switches the "warmth" of the image colors. 9300K gives whites a bluish cast, while 6500K is more like natural sunlight. If neither preset color is satisfactory, you can define your own color preference.		A	DEGAUSS (Demagnetize)	screen color in caused by ma The monitor in	impurities agnetic fields. may "buzz" and the image olor and few seconds. are normal. ae degauss than once
ZOC	РМ	Reduces view of display area	Enlarges view of display area	→• ←	RESET	Recalls factor any, for the comode.	NO ry settings, if urrent display



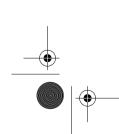


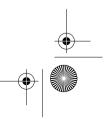






Control	Effect of Button ← →	Control	Effect of Button ← →	
i INFORMATI	Information displays a list of available modes and the current user setting. This is an informational screen only.		Changes to display the OSD data in any of the six languages listed. Use ← or → button to select English, Deutsch, Español, Français, Italiano, or Portuguêse.	
OSD LOCK/ UNLOCK	Allows you to secure the current control settings so that they cannot be inadvertently changed. You can unlock the OSD controls at any time by using the same procedure. Push and hold in the button for 10 seconds or more to Lock or to Unlock.	HALF TONE	← Half Tone: Off → Half Tone: On	

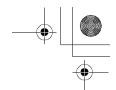




ENGLISH









Further Information

Display modes

The display mode the monitor uses is controlled by the computer. Therefore, refer to your computer documentation for details on how to change display modes.

The image size, position and shape might change when the display mode changes. This is normal and the image can be readjusted using the monitor controls.

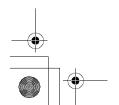
To ensure flicker-free operation, select the highest (non-interlaced) refresh rate both the computer and the monitor can support, (generally 75 Hz or higher), for the addressability that your application requires.

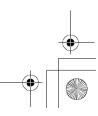
For the display modes listed, the screen image has been optimized during manufacture.

Addressability	Refresh Rate	Horizontal Frequency
640 x 480	60 Hz	31.5 kHz
640 x 480	85 Hz	43.3 kHz
720 x 400	70 Hz	31.5 kHz
800 x 600	75 Hz	46.9 kHz
800 x 600	85 Hz	53.7 kHz
960 x 529	75 Hz	41.8 kHz
1024 x 768	75 Hz	60.0 kHz
1024 x 768 †	85 Hz	68.7 kHz
1280 x 1024	75 Hz	80.0 kHz

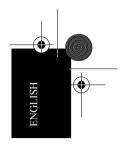
[†] Recommended display mode

Table 1: Factory Set Display Modes.









Power Management

To benefit from power management, the monitor must be used in conjunction with a computer that implements the Video Electronics Standards Association (VESA) Display Power Management Signalling (DPMS) Standard.

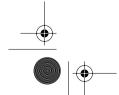
The power management feature is invoked when the computer recognizes that you have not used your mouse or keyboard for a user-definable period of time. There are several states as described in the table below.

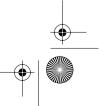
As an Energy Star® Partner, IBM has determined that this product meets the Energy Star® guidelines for energy efficiency.

Switch off your monitor at the end of each working day, or whenever you expect to leave it unused for long periods during the day.

State	Power Indicator	Screen	Restoring Operation	Compliance
On	Steady green	Normal		
DPMS Standby	Flashing green (0.5 sec. interval)	Blank	Press a key or move the mouse.	
DPMS Suspend	Flashing green (1 sec. interval)	Blank	Press a key or move the mouse.‡	ENERGY STAR®
DPMS Off	Flashing green (2 sec. interval)	Blank	Press a key or move the mouse.‡	ENERGY STAR [®] and NUTEK

[‡] There may be a slight delay before the picture reappears.







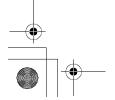






The G78 (Type-model 6627-xAx) color monitor uses a 17 inch IFT CRT with a viewable image size of 16.0 inches

(400.4 11111).					
Dimensions	Width: Depth:	422.0 (mm) 420.0 (mm)	Weight	Unpackaged: Packaged:	37.48 lb (17.0 Kg) 47.4 lb (21.5Kg)
Tilt Swivel	Height: Forward tilt: Backward tilt: Swivel: Clockwise: Counterclockwise:	420.1 (mm) - 4° + 15° + 45° - 45°	Video Input	Input Signal: Horiz. Addressability: Vert. Addressability: Clock Rate:	Analog Direct Drive, 75 ohm 0-0.7 V 1600 pels (max.) 1200 lines (max.) 180 Mpels/sec
			Communications	VESA DDC	1 / 2B / 2Bi
Image	Maximum Height: Maximum Width: Dot Pitch:	244.02 mm 325.36 mm 0.25 mm	Synchronization Range	Horiz. Frequency: Vert. Frequency:	30 kHz - 85 kHz 50 Hz - 160 Hz
Power Input	Supply Voltage: Max Supply Current:	90 - 264 V ac, 50 / 60 ± 3 Hz 1.4 A at 120 V ac	Environment	Temperature: Operating: Storage: Shipping:	0 to 40°C(32 to 104F) - 20 to 45°C(- 4 to 113F) - 40 to 65°C(- 40 to 149F)
Power Consumption (Typical)	Normal Operation: DPMS Stand-by: DPMS Suspend: DPMS Off:	100 W 70 W <15 W < 3 W		Humidity: Operating: Storage: Shipping:	10 to 80% 5 to 90% 5 to 95%

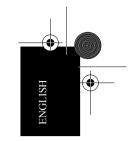










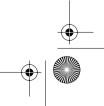


Troubleshooting

If you have a problem setting up or using your monitor, you might be able to solve it yourself. Before calling your retailer or IBM, try the suggested actions that are appropriate to your problem.

Problem	Possible Cause Suggested Action		Reference
Screen is blank and power indicator is off.	No power to monitor.	Ensure that the electrical outlet and the monitor are both switched on. Check that the power cord is firmly plugged into the monitor and the electrical outlet. If the power cord plug has a removable fuse, replace it. Try another power cord. Try another electrical outlet.	Connecting your monitor section on page 2.
Screen is blank and power indicator is steady green.	Brightness and Contrast might be too low.	Adjust brightness and contrast.	User controls section starting on page 6
Screen is blank and power indicator is flashing green every half second.	The monitor is in the Power Management Standby state.	Press any key on the keyboard or move the mouse to restore operation. Check the Power Management software on your computer.	Power Management section on page 13.







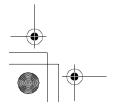


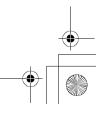




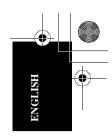


Problem	Possible Cause	Suggested Action	Reference
Screen is blank and power indicator is flashing green every 0.3 second.	Display mode of the computer is outside the range of the monitor.	Reconfigure the computer to use a supported display mode.	Further Information on page 12.
Screen is blank and power indicator is flashing green every 1 or 2 seconds.	The monitor is in the Power Management Suspend or Off state.	Press any key on the keyboard or move the mouse to restore operation. Check the Power Management software on your computer.	Power Management section on page 13.
"Check Signal Cable" displays on the screen.	The monitor is not receiving a video signal.	Check that the signal cable is firmly connected to the computer and the monitor. Check that no pins are bent in the signal cable connector.	Connecting your monitor section on page 2.
Image appears to be flickering.	The monitor is operating in an interlaced or low refresh rate display mode.	Reconfigure the computer to use a non- interlaced display mode with a refresh rate of at least 75 Hz.	Further Information on page 12.
be movering.	The monitor might be affected by interference from nearby equipment.	Move fluorescent desk lighting or any equipment that produces magnetic fields further away from the monitor.	



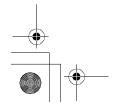


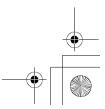




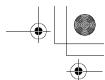
Problem	Possible Cause	Suggested Action	Reference
Image appears to be discolored.	The monitor might be affected by interference from nearby equipment.	Move any equipment that produces magnetic fields (e.g. sub woofer loud speakers) further away from the monitor.	
		If another monitor is close by, a separation distance of at least 150 mm (6 inches) is recommended.	
	Magnetization of monitor components has built up.	Demagnetize the monitor.	User Controls, Degauss (Demagnetize) section on page10.
		Adjust the Color settings.	User Controls, Color section on page 10.













Monitor Self Diagnosis

The monitor continuously checks for the presence of a signal cable. If the cable becomes disconnected, the monitor displays a white box with a red border and characters stating "No Connection! Check Signal Cable." If you see this screen the monitor is working properly. If you do not see this screen and all troubleshooting remedies do not resolve the problem, further help will be required from an IBM authorized dealer or retailer or from an IBM HelpCenter.

Further Help

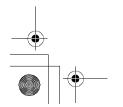
If you are unable to correct the problem yourself, contact your dealer, retailer, or other IBM authorized reseller.

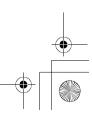
In the US call: 1-800-772-2227 In Canada call: 1-800-565-3344 Before calling, please have available as much of the following information as possible:

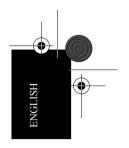
- 1. Type, model and serial number from the label on the back of your monitor.
- 2. Purchase receipt.
- 3. Description of problem.
- 4. Computer type and model.
- 5. System configuration (hardware fitted, etc.).
- 6. System BIOS version number.
- 7. Operating System and version number.
- 8. Display driver version number.

If possible, stay by your computer system. Your technical support representative might want to go through the problem with you during the call.



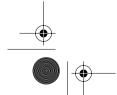


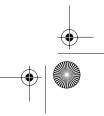




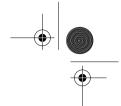
Warranty period - Three (3) years Your installation Diskette includes translations of IBM's Statement of Warranty in the following languages.

Worldwide Statement of Warranty (Except Turkiye, U.SS, Puerto Rico and Canada)		
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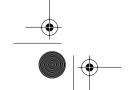


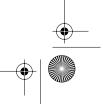


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