

Exhibit 5

**INSTALLATION AND OPERATING
INSTRUCTION**

PHILIPS

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IOTS

electronic USER'S MANUAL



Federal Communications Commission (FCC) Notice (U.S. Only)



This equipment 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 the dealer or an experienced radio/TV technician for help.



Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Use only RF shielded cable that was supplied with the monitor when connecting this monitor to a computer device.



WHEN POSITIONING THIS EQUIPMENT ENSURE THAT THE POWER PLUG AND SOCKET ARE EASILY ACCESSIBLE.

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

Safety and Troubleshooting Information

[Safety Precautions and Maintenance](#) [Troubleshooting](#) [Regulatory Information](#) [Other Related Information](#)

Safety precautions and maintenance



WARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

Read and follow these instructions when connecting and using your computer monitor:

- Disconnect the monitor from the power supply if the monitor is not to be used for an extended period of time.
- Do not attempt to remove the back cover, as you will be exposed to a shock hazard. The back cover should only be removed by qualified service personnel.
- Do not place objects on top of the monitor cabinet, objects could fall into vents or cover them and prevent proper cooling of the monitor's electronic devices.
- To avoid the risk of shock or permanent damage to the set, do not expose the monitor to rain or excessive moisture.
- Do not use alcohol or ammonia-based liquid to clean the monitor. If necessary, clean with a slightly damp cloth. Disconnect the monitor from the power supply before cleaning.

Consult a service technician if the monitor does not operate normally when operating instructions of this manual are followed.

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Troubleshooting

[Safety Precautions and Maintenance](#) [Troubleshooting](#) [Regulatory Information](#)
• [Other Related Information](#)

Common Problems

Having trouble? Something not working? Before calling for help, try these suggestions.

Having this problem?	Check these items
No Picture (Power LED not lit)	<ul style="list-style-type: none">● Make sure the Power cable is plugged into the power outlet and back of the monitor.● Power button on top of the monitor should be in the ON position.● Disconnect the monitor from the power outlet for about one minute.
No Picture (Power LED is amber or yellow)	<ul style="list-style-type: none">● Make sure the computer is turned on.● Make sure the monitor cable is properly connected to your computer.● Check to see if the monitor cable has bent pins.● The Energy Saving feature may be activated● Make sure the Brightness and Contrast controls are set correctly.
No Picture (Power LED is green)	<ul style="list-style-type: none">● Make sure the monitor cable is properly connected to your computer.● Check to see if the monitor cable has bent pins.● Make sure the computer Power button is on.
Screen doesn't show when you turn on the monitor	<ul style="list-style-type: none">● Make sure the monitor cable is properly connected to your computer. (Also refer to the Quick Start Guide).● Check to see if the monitor cable has bent pins.● Make sure the computer is turned on.
No color or intermittent color	<ul style="list-style-type: none">● If you are using a non-VESA-DDC standard video card, turn the DDC1 / 2B feature Off.
Color appears blotchy	<ul style="list-style-type: none">● The picture may need degaussing.● Remove any nearby magnetic objects.● Face the monitor toward the East for the best picture quality.● Check the Color Temperature.
Missing one or more colors	<ul style="list-style-type: none">● Make sure the monitor cable is properly connected to your computer.● Check to see if the monitor cable has bent pins.
Dim Picture	<ul style="list-style-type: none">● Adjust the Brightness and Contrast controls.● Check your video card and it's owner's manual instructions for it may be a non-VESA-DDC Standard card.

Picture is too large or too small.

- Adjust the Horizontal and/or Vertical Size.
- Adjust the Zoom.

Edges of the picture are not square.

- Adjust the geometry.

Picture has a double image.

- Eliminate the use of a video extension cable and/or video switch box.
- Face the monitor toward the East for the best picture quality.

Picture is not sharp.

- Check to make sure Moiré is switched off.
- Adjust Sync Input.

Unstable Picture

- Increase your refresh rate.

Problem with On Screen Display

- Refer to the instructions and troubleshooting information in that chapter.

For further assistance, refer to the [Consumer Information Centers](#) list to contact your local Philips distributor.

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About This Electronic User's Manual

[About This Guide](#) [Other Documents You May Need](#) [Notations Descriptions](#)

About This Guide

This electronic user's guide is intended for anyone who uses the Philips 109S Color Monitor. It describes the monitor's features, setup, operation and all other information, which is the same exact information described in our printed version.

The sections are as follows:

- [Safety and Troubleshooting Information](#) provides tips and solutions for common problems, and other related information you may need.
- [About This Electronic User's Manual](#) gives overview of what information are included as well as notation icon descriptions and other documentation you can refer to.
- [Product Information](#) gives an overview of the monitor's features and as well as the technical specifications for this monitor.
- [Installing Your Monitor](#) describes the initial setup process and gives an overview of how to use the monitor.
- [On Screen Display](#) provides information on adjusting the settings on your monitor.
- [Customer Care and Warranty](#) is a list of worldwide Philips consumer information centers along with the help desk phone numbers and information on the applicable warranty of your product..
- [Glossary](#) provides more information for technical terms.
- [Download Option](#) allows you to consumer keep a copy of the entire manual in your hard drive.

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Other Documents You May Need

In addition to this *Electronic User's Guide*, you may need to refer to the following documentation:

- *Philips Color Monitor Quick Start Guide* which summarizes the steps for setting up the monitor. This is included with this product.

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Notation Descriptions

The following subsections describe notational conventions used in this document.

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings.



NOTE: This icon indicates important information and tips that help you make better use of your computer system.



CAUTION: This icon indicates information that tells you how to avoid either potential damage to hardware or loss of data.



WARNING: This icon indicates the potential for bodily harm and tells you how to avoid the problem.



SMART HELP: This icon indicates helpful information when adjusting the On Screen Display of your monitor.

Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

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F00ID: A3K4089

Product Information

Product Features Technical Specifications Power Management Automatic Power Saving
• Physical Specification Pin Assignment Product Views

Product Features

* 107S10

- 17-inch (16.0" VIS) color monitor with excellent front of screen performance for use with MACs and PCs
- Autoscans covers horizontal frequencies up to 70 kHz offering a maximum resolution of 1280 x 1024 with flicker free display of 1024 x 768 at up to 88 Hz
- Flat square High Contrast CRT with high-resolution 0.27 mm dot pitch (0.23 hdp).
- Large screen display in a small footprint: World's shortest 17-inch conventional monitor with maximum depth of only 408 mm/16.1"
- Multimedia Base and USB Hub option
- TCO99, E2000, NUTEK, EPA, FCC, CE and ISO9241 certified

107S11

- 17-inch (16.0" VIS) color monitor with excellent front of screen performance for use with MACs and PCs
- Autoscans covers horizontal frequencies up to 70 kHz offering a maximum resolution of 1280 x 1024 with flicker free display of 1024 x 768 at up to 88 Hz
- Flat square High Contrast CRT with high-resolution 0.27 mm dot pitch (0.23 hdp).
- Large screen display in a small footprint: World's shortest 17-inch conventional monitor with maximum depth of only 408 mm/16.1"
- Multimedia Base and USB Hub option
- MPR-II, E2000, NUTEK, EPA, FCC, CE and ISO9241 certified

107S15

- 17-inch (16.0" VIS) color monitor with excellent front of screen performance for use with MACs and PCs
- Autoscans covers horizontal frequencies up to 70 kHz offering a maximum resolution of 1280 x 1024 with flicker free display of 1024 x 768 at up to 88 Hz
- Flat square High Contrast CRT with high-resolution 0.27 mm dot pitch (0.23 hdp).
- Large screen display in a small footprint: World's shortest 17-inch conventional monitor with maximum depth of only 408 mm/16.1"
- Multimedia Base complete with 32 W PMPO stereo output, bass boost, headphones and microphone connector
- TCO99, E2000, NUTEK, EPA, FCC, CE and ISO9241 certified

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CRT

Size and deflection	17 inch / 41 cm ; 90° deflection angle
Dot pitch / Grille pitch	0.27 mm
Horizontal pitch	0.23 mm
Tube type	Shadow mask, flat square, high contrast, anti-glare, anti-static, anti reflection, light transmission 47%
Phosphor	P22
Recommended display area	12.0" x 9.0" / 306 x 230 mm
Maximum display area	12.9" x 9.7" / 327 x 245 mm

SCANNING

Horizontal scanning	30 - 70 KHz
Vertical scanning	50-160 Hz

VIDEO

Video dot rate	108 MHz
Input impedance	
- Video	75 ohm
- Sync	2.2 kOhm
Input signal levels	0.7 Vpp
Sync input signal	Separate sync
	Composite sync
Sync polarities	Positive and negative

WHITE COLOR TEMPERATURE

Chromaticity CIE coordinates:

at 9300 K degrees	$x = 0.283 / y = 0.297$
at 6500 K degrees	$x = 0.313 / y = 0.329$

** These information are subject to change without notice.*

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Power Management

Complies with EPA Energy Star and NUTEK specifications

Typical operation :	75W
Suspend / Standby Mode :	< 8W

Off Mode : < 2.5W

Automatic Power Saving

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. And if an input from a keyboard, mouse or other input device is detected, the monitor will automatically "wake up". The following table shows the power consumption and signaling of this automatic power saving features:

Power Management Definition						
VESA's Mode	Video	H-sync	V-sync	Power Used	Power Saving (%)	LED color
ON	Active	Yes	Yes	< 85W	0 %	Green
Stand-by	Blanked	No	Yes	< 15W	86%	Yellow
Suspend	Blanked	Yes	No	< 15W	86%	Yellow
OFF	Blanked	No	No	< 5W	95%	Amber

This monitor is ENERGY STAR compliant. As an ENERGY STAR® Partner, PHILIPS has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

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Physical Specifications

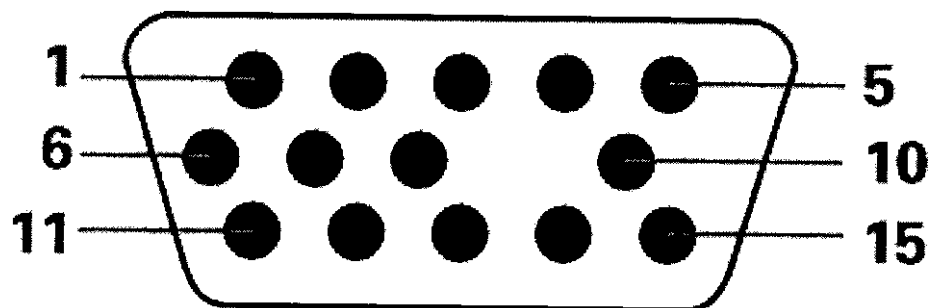
Dimensions	107S10 and 107S11 - 15.7" x 16.1" x 16.1" / 399 x 410 x 408 mm (including base) 107S15 - 15.7" x 17.2" x 16.1" / 399 x 438 x 408 mm (including base) 107S10 and 107S11 - 15.7" x 14.7" x 16.1" / 399 x 373 x 408 mm (excluding base) 107S15 - 15.7" x 14.7" x 16.1" / 399 x 373 x 408 mm (excluding base)
Weight	107S10 and 107S11 - 15.0 kg / 107S15 - 15.5 kg
Power supply	90 - 264 VAC, 50/60Hz
Power consumption	105 Watt*
Temperature (operating)	0 to 40 C / 32 to 104 F
Temperature (storage)	-25 to +65 C / -13 to 149 F
Relative humidity	5% to 95%

* Resolution 1280 x 1024, standard size, contrast max., brightness 50%, 9300°, full white pattern.

* These information are subject to change without notice.

Pin Assignment

The 15-pin D-sub connector (male) of the signal cable (IBM systems):



Pin No.	Assignment	Pin No.	Assignment
1	Red video input	9	No pin
2	Green video input	10	Logic ground
3	Blue video input	11	Identical output - connected to pin 10
4	Identical output - connected to pin 10	12	Serial data line (SDA)
5	Ground	13	H. Sync / H+V
6	Red video ground	14	V. Sync (VCLK for DDC)
7	Green video ground	15	Data clock line (SCL)
8	Blue video ground		

Views

Follow the links to see various views of the monitor and its components.

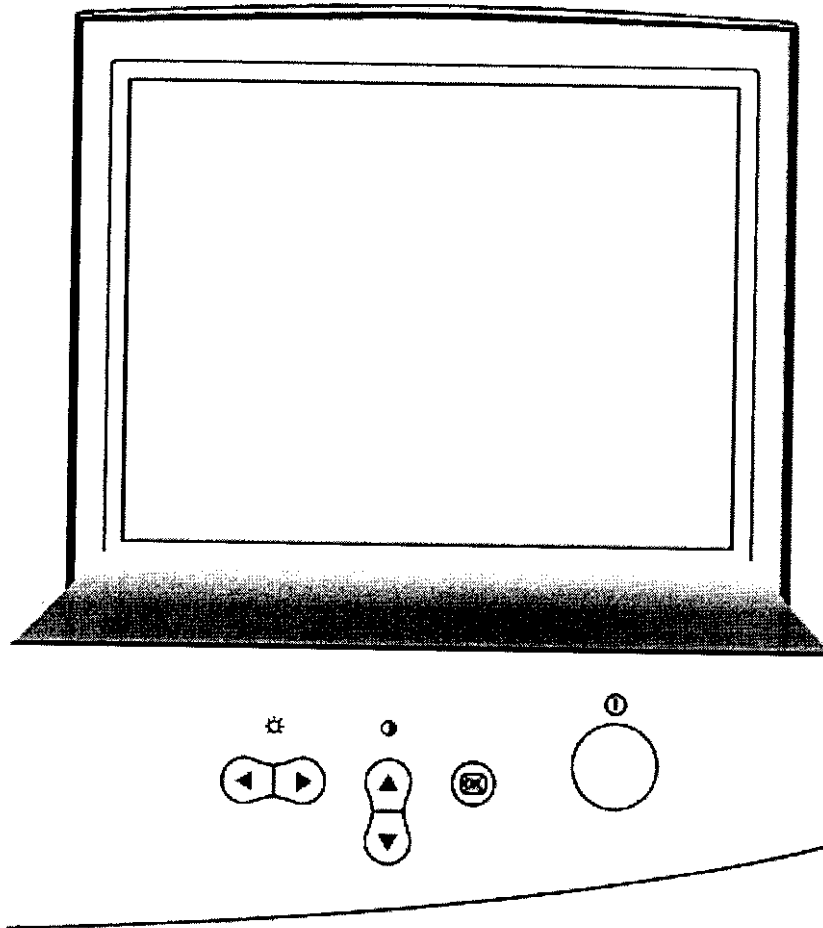
[Front View](#)

[Rear View](#)

Installing your Monitor

[Front View](#) [Rear View](#) [6B3G10 Multimedia Base \(option\)](#) [PCUH411 USB Hub \(option\)](#)

Front View



Power button switches your monitor on.



OK button which when pressed will take you to the OSD controls



Contrast hotkey. When the UP arrow is pressed, the adjustment controls for the CONTRAST will show up.



UP and DOWN buttons are used when adjusting the OSD of your monitor

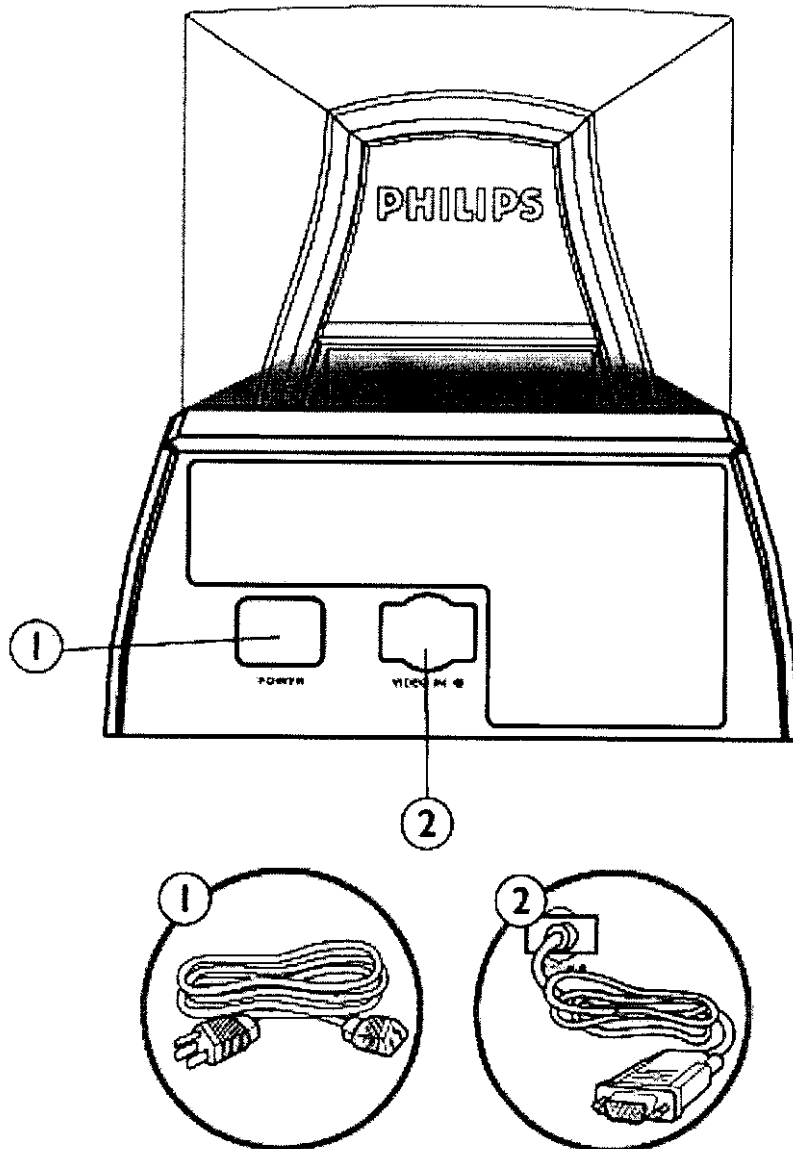


Brightness hotkey. When both the LEFT and RIGHT arrows are pressed at the same time, then the adjustment controls for BRIGHTNESS will show up.



LEFT and RIGHT buttons, like the UP and DOWN buttons, are also used in adjusting the OSD of your monitor.

Rear View



1. Power in - attach power cable here.

2. Video In - this is a cable which is already attached to your monitor. Connect the other end of the cable to your PC.

The OSD Controls

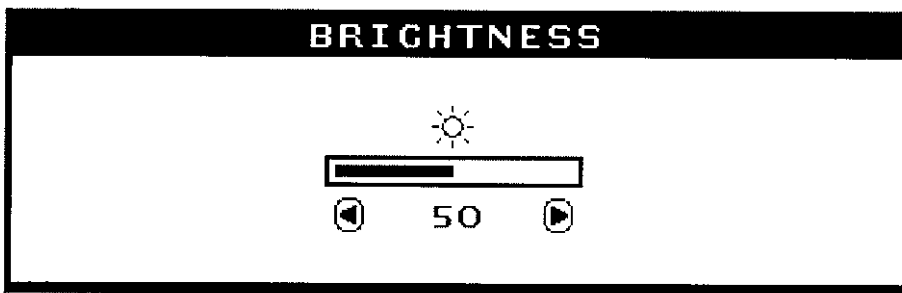
Description of the On-Screen Display The OSD Tree

The OSD Controls : Brightness (HotKey) Contrast (HotKey) Language Input Signal Selection Zoom Adjust Horizontal Adjust Vertical Adjust Shape Adjust Color Reset to Factory Settings Extra Controls Close Main Controls



BRIGHTNESS

To adjust your screen's brightness, follow the steps below. Brightness is the overall intensity of the light coming from the screen. A 50% brightness is recommended.

1) Press the  or  button on the monitor. The BRIGHTNESS window appears.



2) Press the  or  button to adjust the brightness.

3) When the brightness is adjusted to the level desired, stop pressing the  or  button and after three seconds the BRIGHTNESS window will disappear with the new adjustment saved.



Smart

Help

After the BRIGHTNESS window has disappeared, to continue to the CONTRAST window, follow the steps under CONTRAST.

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CONTRAST

To adjust your screen's contrast, follow the steps bellow. Contrast is the difference between the light and dark areas on the screen. A 100% contrast is recommended.

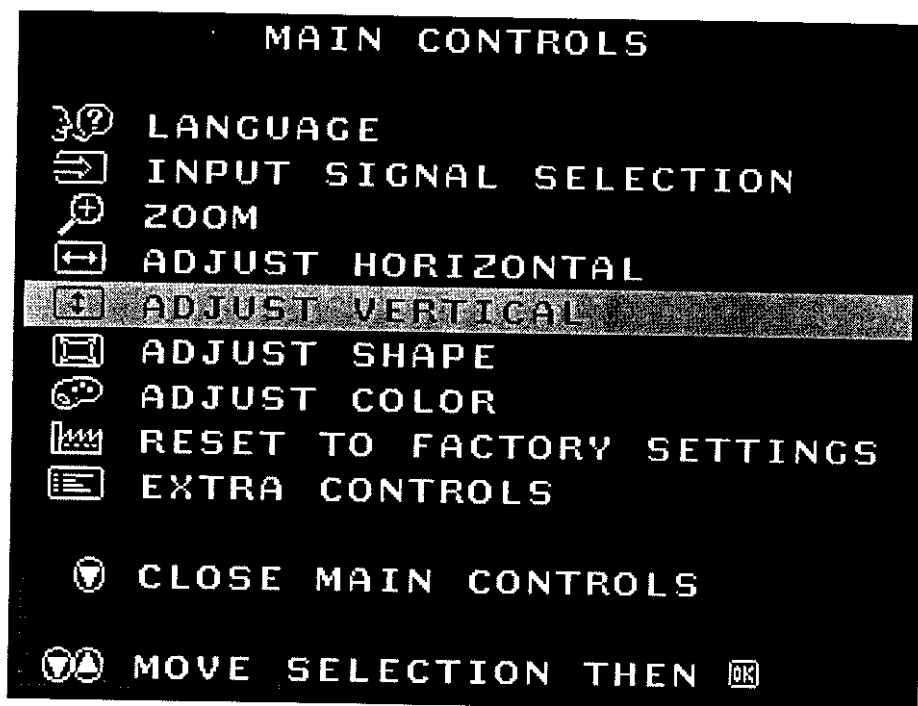
1) Press the  or  button on the monitor. The CONTRAST window appears.

ADJUST VERTICAL

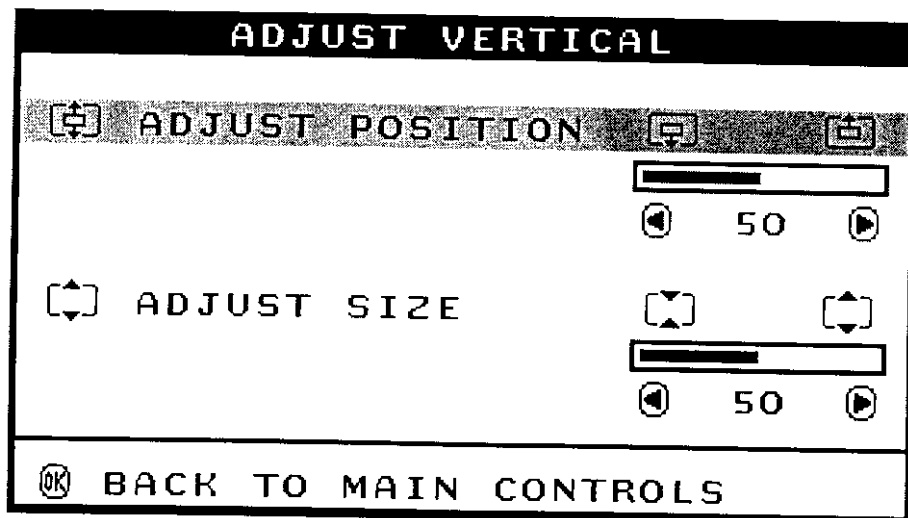
ADJUST POSITION under ADJUST VERTICAL shifts the image on your screen either up or down. Use this feature if your image does not appear centered. ADJUST SIZE under ADJUST VERTICAL expands or controls the image on your screen, pushing it out toward the top or bottom or pulling it in toward the center.



1) Press the  button on the monitor. The MAIN CONTROLS window appears.



2) Press the  button until ADJUST VERTICAL is highlighted.

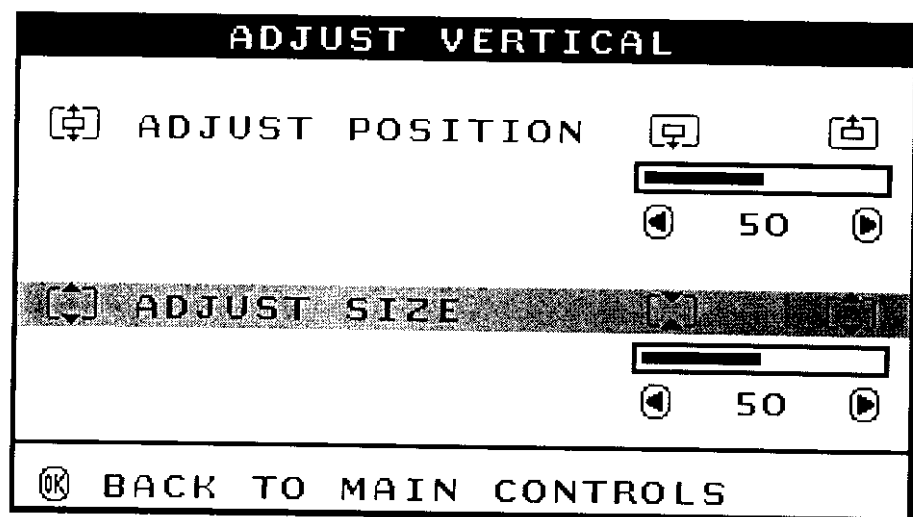




3) Press the  button. The ADJUST VERTICAL window appears. ADJUST POSITION should be highlighted.




4) Press the  or  button to move the image up or down.

- 5) When the position is adjusted, press the  button to return to MAIN CONTROLS window, or press the  to highlight ADJUST SIZE.



- 6) To adjust the vertical size, press the  or  button.


- 7) When the size is adjusted, press the  button to return to MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.




Help

Smart

After returning to MAIN CONTROLS . . .

. . . to continue to ADJUST SHAPE, press the  button until ADJUST SHAPE is highlighted. Next, start with step 3 under ADJUST SHAPE and follow the directions.



. . . to exit completely, press the  button

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ADJUST SHAPE

ADJUST SIDE CURVE

ADJUST SIDE CURVE under ADJUST SHAPE allows you to adjust two of the five preset options. These two options are PINCUSHION and BALANCED pincushion. Note: use these features only when the picture is not square.

- 1) Press the  button on the monitor. The MAIN CONTROLS window appears.
- 2) Press the  button until ADJUST SHAPE is highlighted.