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BECAUSE OF CONTINUOUS PRODUCT IMPROVEMENTS,
THE INFORMATION MENTIONED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.



Introduction

The Philips 105S color monitor displays sharp and brilliant images of text and graphics with a maximum resolution of 1024x768 pixels. It is optimal for Windows, spread sheets and any other application.

The monitor automatically scans horizontal frequencies from 30KHz to 60KHz, and vertical frequencies from 50Hz to 120Hz. With microprocessor-based digital-controlled circuitry and on screen display (OSD) controls, the monitor can automatically adjust itself to the video card's scanning frequency and can display an image with the precise parameters you desire.

- DDC1 / DDC2B allows communication between the monitor and the PC for optimal video configuration.

Note: Your monitor operates according to the VESA-standard DDC level 1 / 2B. Only computers that support the same guidelines and operate at an equal or higher level can use this feature. If your computer does not support the relevant guidelines, you can still use your monitor and computer. However, you may need to manually specify the appropriate resolution in the computer.

Features

- Digital Control – feature provides user-friendliness and ease-of-use when operating the monitor.
- An anti-glare and anti-static – screen coating eliminates any adverse effects caused by the screen's surface, such as reflection of the room light and dust attraction.
- 85Hz refresh rate – The maximum display resolution is 1024x768@75Hz non-interlaced mode. The recommended optimum resolution is up to 800x600 pixels non-interlaced by maximum 85Hz refresh rate.
- Green Design – including automatic power saving function (NUTEK) and low-emission compliance.

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



Contact us at our web site: <http://www.monitors.be.philips.com>

Safety precautions and maintenance

- Unplug the monitor, if you are not going to use it for an extended period of time.
- Unplug the monitor, if you need to clean it with a slightly damp cloth. Wiping the screen with a dry cloth is okay when the power is disconnected. However, never use alcohol or ammonia-based liquids.
- Consult a service technician if the monitor does not operate normally when following the instructions in this manual.
- The back cover should be removed only by qualified service personnel.
- Keep the monitor out of direct sunlight and away from stoves or any other heat source.
- The top of the monitor is not a shelf. Remove any object that could fall into the vents or prevent proper cooling of the monitor's electronics.

- Keep the monitor dry. To avoid electric shock, do not expose it to rain or excessive moisture.
- Keep the monitor away from magnetic objects, such as speakers, electric motors, transformers, etc.
- When positioning the monitor, make sure the power plug and outlet are easily accessible.

End-of-life disposal

Your new monitor contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

Please find out about the local regulations on how to dispose of your old monitor.

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IBM, IBM PC, and Power PC are registered trademarks of International Business Machines Corporation.

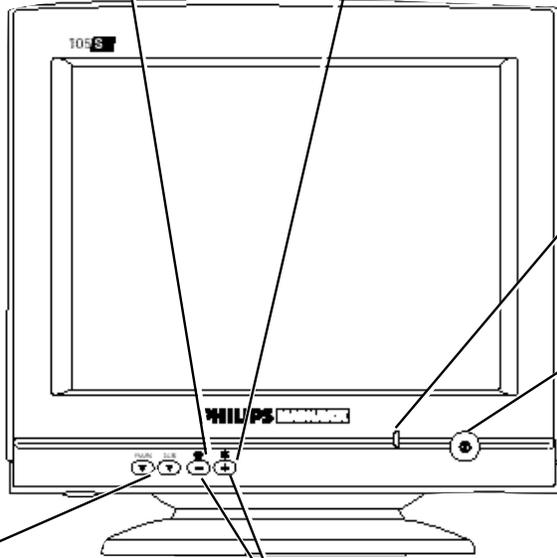
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DESCRIPTION OF CONTROLS

Contrast Knob –
Adjust the screen's contrast.

Brightness Knob –
Adjust the screen's brightness.



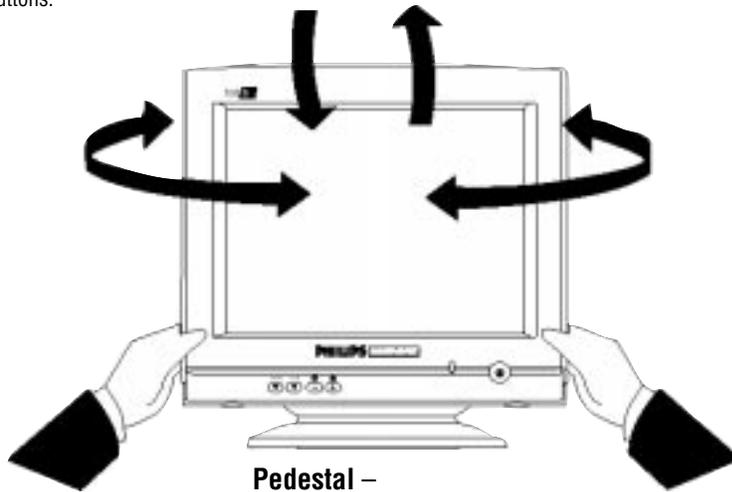
LED –
Light Emitting Diode
Turns green when the monitor is on and at full power.

Power Knob –
Turns the electricity On and Off.

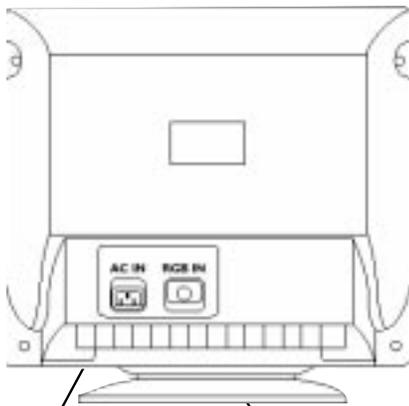


OSD Main menu and Sub-menu selection buttons.

“” or “” (Decrease or Increase)
Press “” or “” to adjust the picture or image.



Pedestal –
You can tilt and swivel the monitor to the most comfortable viewing angle. To best use your monitor, always place it at eye level.



Power Plug – Plug the power cord in here. See foldout for details.

Video In jack – One end of the cable is already connected here. The other end connects to the computer. See foldout for details.

HOW TO USE THE ON SCREEN DISPLAY (OSD)



CONTRAST AND BRIGHTNESS

CONTRAST

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



1 Press the  Contrast button (second one on the right) on the front of the monitor.

The Contrast window appears.



2 Press the  button to increase Contrast, or press the  button to decrease Contrast.



3 When finished, press the SUB button (the Contrast screen disappears.)

BRIGHTNESS

+ To adjust your screen's brightness, follow the steps below. Brightness is the overall intensity of the light coming from the screen. 100% Brightness level is recommended.



1 Press the  brightness button (furthest one on the right) on the front of the monitor.

The Brightness window appears.



2 Press the  button to increase Brightness, or press the  button to decrease Brightness.



3 When finished, press the SUB button (the Brightness screen disappears.)

SMART HELP

To continue to Brightness, press the brightness button on the front of the monitor. Next, follow steps 2-3 under BRIGHTNESS.

If you do not press the SUB button, the Contrast window will "time out" (disappear) after five seconds.

SMART HELP

To continue to Contrast, press the contrast button on the front of the monitor. Next, follow steps 2-3 under CONTRAST.

If you do not press the SUB button, the Brightness window will "time out" (disappear) after five seconds.

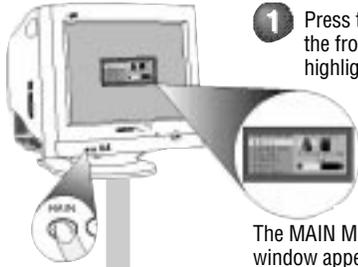


HOW TO USE THE ON SCREEN DISPLAY (OSD)

BASIC WINDOW

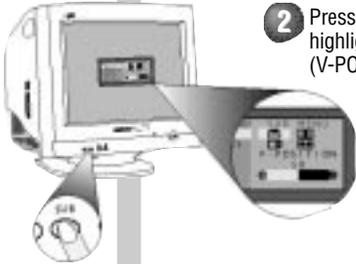
VERTICAL POSITION

 Vertical Position shifts the image on your screen either up or down. Use this feature if your image does not appear centered.

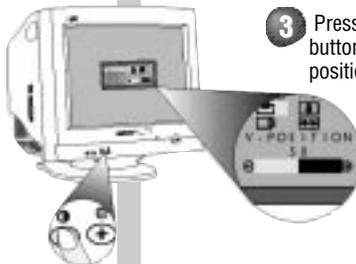


1 Press the MAIN button on the front of the monitor to highlight BASIC.

The MAIN MENU window appears.



2 Press the SUB button to highlight the  icon (V-POSITION is selected.)



3 Press the  or  button to adjust Vertical position.



4 When finished, press the MAIN and SUB button at the same time. The display screen disappears.

SMART HELP

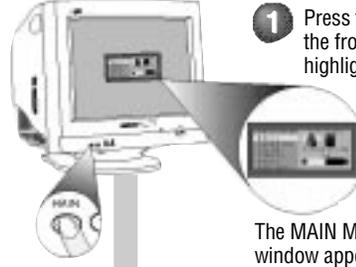
To continue MAIN MENU options, press the MAIN button on the front of the monitor.

To continue to SUB MENU options, press the SUB button on the front of the monitor.

If you do not press any button, the Vertical Position window will "time out" (disappear) after ten seconds.

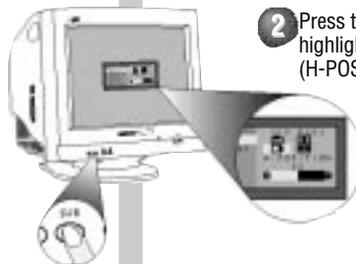
HORIZONTAL POSITION

 Horizontal position shifts the image on your screen either to the left or right. Use this feature if your image does not appear centered.

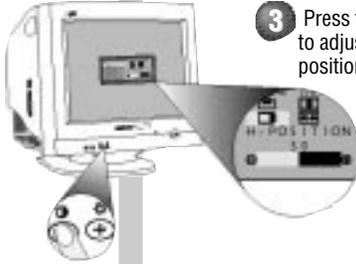


1 Press the MAIN button on the front of the monitor to highlight BASIC.

The MAIN MENU window appears.



2 Press the SUB button to highlight the  icon (H-POSITION is selected.)



3 Press the  or  button to adjust Horizontal position.



4 When finished, press the MAIN and SUB button at the same time. The display screen disappears.

SMART HELP

To continue MAIN MENU options, press the MAIN button on the front of the monitor.

To continue to SUB MENU options, press the SUB button on the front of the monitor.

If you do not press any button, the Horizontal Position window will "time out" (disappear) after ten seconds.

HOW TO USE THE ON SCREEN DISPLAY (OSD)



BASIC WINDOW

VERTICAL SIZE

 Vertical size expands or contracts the image on your screen pushing it out toward the top and bottom sides, or pulling it in toward the center.

 **1** Press the MAIN button on the front of the monitor to highlight the BASIC.

The MAIN MENU window appears.

 **2** Press the SUB button to highlight the  icon (V-SIZE is selected.)

The V-SIZE window appears.

 **3** Press the  or  button to adjust Vertical size.

The V-SIZE window shows the current vertical size setting.

 **4** When finished, press the MAIN and SUB button at the same time. The display screen disappears.

The display returns to normal.

SMART HELP

To continue MAIN MENU options, press the MAIN button on the front of the monitor.

To continue to SUB MENU options, press the SUB button on the front of the monitor.

If you do not press any button, the Vertical Size window will “time out” (disappear) after ten seconds.

HORIZONTAL SIZE

 Horizontal size expands or contracts the image on your screen pushing out toward the left and right sides, or pulling it in toward the center.

 **1** Press the MAIN button on the front of the monitor to highlight the BASIC.

The MAIN MENU window appears.

 **2** Press the SUB button to highlight the  icon (H-SIZE is selected.)

The H-SIZE window appears.

 **3** Press the  or  button to adjust Horizontal size.

The H-SIZE window shows the current horizontal size setting.

 **4** When finished, press the MAIN and SUB button at the same time. The display screen disappears.

The display returns to normal.

SMART HELP

To continue MAIN MENU options, press the MAIN button on the front of the monitor.

To continue to SUB MENU options, press the SUB button on the front of the monitor.

If you do not press any button, the Horizontal Size window will “time out” (disappear) after ten seconds.

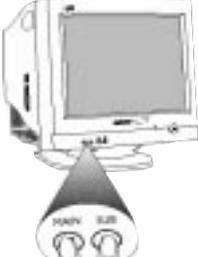


HOW TO USE THE ON SCREEN DISPLAY (OSD)

GEOMETRY WINDOW

PINCUSHION

 Pincushion is to correct the pincushion distortion of the image. Note: Use this feature only when the picture is not square.

-  Press the MAIN button to highlight BASIC, then press MAIN button to select the GEOMETRY control window.
-  Press the SUB button to highlight the  icon (PINCUSHION is selected.)
-  Press the  or  button to adjust PINCUSHION.
-  When finished, press the MAIN and SUB button at the same time. The display screen disappears.

SMART HELP

To continue MAIN MENU options, press the MAIN button on the front of the monitor.

To continue to SUB MENU options, press the SUB button on the front of the monitor.

If you do not press any button, the Pincushion window will "time out" (disappear) after ten seconds.

TRAPEZOID

 Trapezoid is to correct the trapezoid distortion of the image. Note: Use this feature only when the picture is not square.

-  Press the MAIN button to highlight BASIC, then press MAIN button to select the GEOMETRY control window.
-  Press the SUB button to highlight the  icon (TRAPEZOID is selected.)
-  Press the  or  button to adjust TRAPEZOID size.
-  When finished, press the MAIN and SUB button at the same time. The display screen disappears.

SMART HELP

To continue MAIN MENU options, press the MAIN button on the front of the monitor.

To continue to SUB MENU options, press the SUB button on the front of the monitor.

If you do not press any button, the Trapezoid window will "time out" (disappear) after ten seconds.

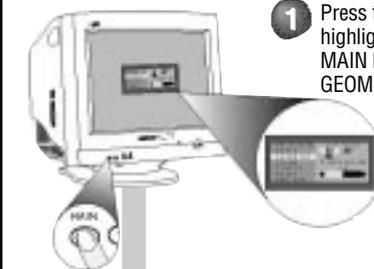
HOW TO USE THE ON SCREEN DISPLAY (OSD)

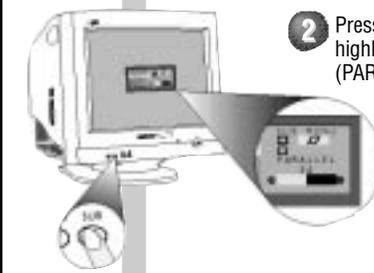


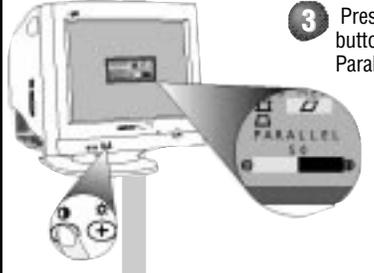
GEOMETRY WINDOW

PARALLEL

 Parallel is to correct the parallelogram distortion of the image. Note: Use this feature only when the picture is not square.

- 

1 Press the MAIN button to highlight BASIC, then press MAIN button to select the GEOMETRY control window.
- 

2 Press the SUB button to highlight the  icon (PARALLEL is selected.)
- 

3 Press the  or  button to adjust Parallelogram.
- 

4 When finished, press the MAIN and SUB button at the same time. The display screen disappears.

SMART HELP

To continue MAIN MENU options, press the MAIN button on the front of the monitor.

To continue to SUB MENU options, press the SUB button on the front of the monitor.

If you do not press any button, the Parallel window will “time out” (disappear) after five seconds.



HOW TO USE THE ON SCREEN DISPLAY (OSD)

MAIN MENU WINDOW

COLOR

Your monitor has two preset options to select: 9300° K or 6500° K. Computer Aided Design (CAD) usually works best with the 9300° K setting. Desktop Publishing (DTP) usually works best with the 6500° K setting.

- 1 Press the MAIN button. The On Screen Display window appears.
- 2 Press the MAIN button to select the COLOR function.
- 3 Press the  button to select 9300, or press the  button to select 6500.
- 4 When finished, press the MAIN and SUB button at the same time. The display screen disappears.

SMART HELP

To continue MAIN MENU options, press the MAIN button on the front of the monitor.

To continue to SUB MENU options, press the SUB button on the front of the monitor.

If you do not press any button, the COLOR window will “time out” (disappear) after ten seconds.

STATUS

Status tells you the vertical and horizontal scanning frequencies that your computer is using to operate your monitor. *Note: This screen is for review only.*

- 1 Press the MAIN button. The On Screen Display window appears.
- 2 Press the MAIN button to select the STATUS function.
- 3 When finished, press the MAIN and SUB button at the same time. The display screen disappears.

SMART HELP

To continue MAIN MENU options, press the MAIN button on the front of the monitor.

To continue to SUB MENU options, press the SUB button on the front of the monitor.

If you do not press any button, the STATUS window will “time out” (disappear) after ten seconds.

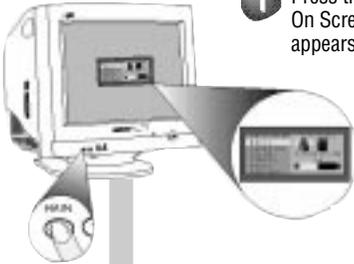
HOW TO USE THE ON SCREEN DISPLAY (OSD)

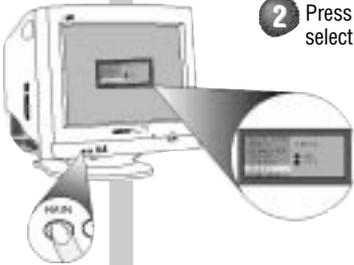


MAIN MENU WINDOW

RESET

Resetting from the On Screen Display returns the monitor's control settings to factory preset values.

- 

1 Press the MAIN button. The On Screen Display window appears.
- 

2 Press the MAIN button to select the RESET function.
- 

3 Press the  button to select NO, or press the  button to select YES.
- 

4 When finished, press the MAIN and SUB button at the same time. The display screen disappears.

SMART HELP

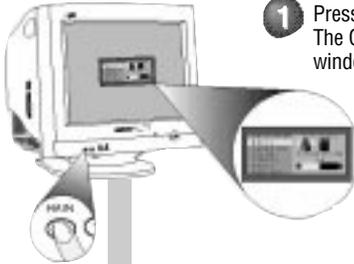
To continue MAIN MENU options, press the MAIN button on the front of the monitor.

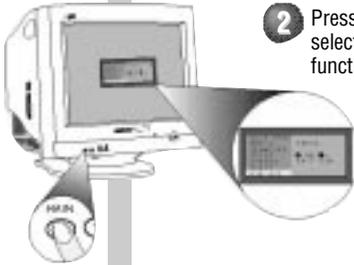
To continue to SUB MENU options, press the SUB button on the front of the monitor.

If you do not press any button, the RESET window will “time out” (disappear) after ten seconds.

OSD OFF

Exiting from the On Screen Display removes the On Screen Display from the monitor screen.

- 

1 Press the MAIN button. The On Screen Display window appears.
- 

2 Press the MAIN button to select the OSD OFF function.
- 

3 Press the  or  button to exit the OSD.

SMART HELP

To continue MAIN MENU options, press the MAIN button on the front of the monitor.

If you do not press any button, the OSD OFF window will “time out” (disappear) after ten seconds.



ADDITIONAL INFORMATION

POWER SAVING FEATURE / GLOSSARY

AUTOMATIC POWER SAVINGS & PRESET RESOLUTION MODES

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. If input from a keyboard, mouse, or other device is detected, the monitor automatically "wakes up." The table at left shows the power consumption and signalling of this automatic power-saving feature. The table at right shows the 9 factory preset resolution modes. The maximum number of modes is 13. This leaves room for additions.

Power Management Definition						
VESA's mode	Video	H-sync	V-sync	Power used	Power saving(%)	LED color
ON	Active	Yes	Yes	< 80W	0%	Green
Stand-by	Blanked	No	Yes	< 15W	80%	Amber
Suspend	Blanked	Yes	No	< 15W	80%	Amber
OFF	Blanked	No	No	< 8W	90%	Amber

This monitor is Energy Star compliant and power management compatible.



AS AN ENERGY STAR PARTNER, PHILIPS HAS DETERMINED THAT THIS PRODUCT MEETS THE ENERGY STAR GUIDELINES FOR ENERGY EFFICIENCY.

The proper operation of the function requires a computer with VESA DPMS power management capabilities. When used with a computer equipped with VESA DPMS, the monitor is Energy Star compliant.

Factory Preset Resolution Modes				
MODE	RESOLUTION	H. FREQ. (KHz)	V. FREQ. (Hz)	STANDARD
1	640 x 400	31.5	70	VGA
2	640 x 480	31.5	60	VGA
3	640 x 480	37.5	75	VESA/75
4	640 x 480	43.3	85	VESA/85
5	800 x 600	37.9	60	VESA/60
5	800 x 600	46.9	75	VESA/75
7	800 x 600	53.7	85	VESA/85
8	1024 x 768	48.3	60	VESA/60
9	1024 x 768	60	75	VESA/75

GLOSSARY

Here are a few definitions that may help you.

- Brightness** Refers to how light or dark the overall screen is.
- Contrast** Refers to the sharpness of objects on the screen and the ability to easily distinguish one from the other.
- DDC** (Display Data Channel) is a signaling standard established to help the performance of personal computers. In order to use this function, your computer must be designed for DDC. There are several types of DDC. Most computer monitors are designed for DDC1 and DDC2 Level B (DDC1 /2B).



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SPECIFICATIONS

GENERAL	
CRT	
Screen size	:15" (38.1 cm) flat & square
Viewable Image Size (VIS)	:13.8"
Dot pitch	:0.28 mm (horizontal)
Phosphor	:P22 or equivalent, medium short persistence
Screen treatment	:AGAS IRIS
Display area	
Factory preset	:270 mm (H) x 202 mm (V)
Maximum usable	:280 mm (H) x 210 mm (V)
Scanning frequency	
Horizontal (line)	:30-60kHz (AutoScan)
Vertical (frame)	:50-120 Hz (AutoScan)
Input power	:100 - 240 V AC, 50 - 60 Hz
Power consumption	:70 Watt normal, 80 Watt max.
Input signal	
Video	:0.7 Vpp, 75 Ohm impedance
Sync	:Separate sync. TTL
Pedestal	
Tilt	:5° forward, 15° backward
Swivel	:90° left, 90° right
Physical	
Unit dimension (WxHxD)	:362x370x396mm
Net weight	:12.5kg (27.5lbs)
Operating conditions	
Temperature	:0° C - 40° C (32° F - 104° F)
Humidity	:20% - 80%
Storage conditions	
Temperature	:-25° C - 65° C (-13° F - 150° F)
Humidity	:20% - 90%

Specifications subject to change without notification.

PIN ASSIGNMENT

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

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





ADDITIONAL INFORMATION

WHAT TO DO IF SOMETHING ISN'T WORKING

TROUBLESHOOTING

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

HAVING THIS PROBLEM?

No Picture
(Power LED not lit)

CHECK THESE ITEMS

Make sure the Power cable is plugged in the wall and back of the monitor.
Power button on the front 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)

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. See page 11 for details.

No Picture
(Power LED is Green)

Make sure the Brightness and Contrast controls are set correctly. See page 4 for details
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.

Color appears blotchy

Remove any nearby magnetic objects.
Face the monitor East for best picture quality.

Missing one or
more colors

Make sure the monitor cable is properly connected to your computer.
Check to see if the monitor cable has bent pins.

Dim Picture

Adjust the Brightness and Contrast controls. See page 4 for details.
Check your video card and the manual instructions for it. It may be a non-VESA-DDC Standard card.

Picture is too large
or too small

Adjust the Horizontal and/or Vertical Size. See page 6 for details.

Edges of the picture
are not square

See page 7 and 8 for details.

Picture has a double
image

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

Unstable Picture

Increase your refresh rate. Consult your computer manual for details.

Windows '95 cannot
find your video card

Select "Super VGA" under STANDARD DISPLAY TYPES, or contact your video card manufacturer
for the right drivers.

For further assistance, contact Philips at (800) 835-3506 or (423) 475-0280.

ADDITIONAL INFORMATION



LIMITED WARRANTY

COMPUTER MONITOR

Three Years Free Labor / Three Years Free Service on Parts / One Year Exchange*

*Product will be exchanged with a new or renewed to original specifications unit within two business days for the first year. This product must be shipped in for service during years two and three.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase. Attach it to this owner's manual and keep both nearby.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For three years thereafter, all parts will be repaired or replaced, and labor is free. After three years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the original product expires, the warranty on all replaced and repaired products and parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

WHERE CAN I GET MORE INFORMATION?

For more information, contact the Customer Care Center at Philips Service Company by calling (800) 835-3506 (U.S.A. customers only) or (423) 475-0280.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact the Customer Care Center phone number listed below for product assistance and procedures for servicing:

Customer Care Center - Philips Service Company

(800) 835-3506

or

(423) 475-0280

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

(800) 479-6696

Three years free parts and three years free labor will be provided at Philips Canada depot or any one of its authorized service centers.

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Company, P.O. Box 555, Jefferson City, Tennessee 37760

