Apple Multiple Scan 15 Display

Basics

Apple Multiple Scan 15 Display

Overview

The Apple Multiple Scan 15 Display is a color monitor that supports a variety of resolutions, and has a flat, square screen for clear, sharp images.

The Apple Multiple Scan 15 Display has a diagonal viewable image size of 13.3 inches.

The Apple Multiple Scan 15 Display features
- Optimized screen resolutions (640x480, 800x600, 832x624)
- A tilt-swivel base that allows the monitor to be positioned for optimal viewing comfort
- MPR II compliance for low electrical and magnetic emissions
- Energy Star power conservation compliance

Specifications

Apple Multiple Scan 15 Display

Characteristics

Picture Tube   15-in. diagonal flat square shadow mask (13.3-in. viewable image)
Multiple scan
Polished surface treatment

Screen Resolution   640x480, 800x600, or 832x624
1024x768 (only PC and PC-compatibles with a Mac/PC adapter)
0.28-mm dot pitch

Scan Rates   Vertical refresh rate: 60–75 Hz
Horizontal scan rate: 31.77–56.5 kHz
Macintosh, VGA, and SVGA compatible

Cable Connector   15-pin miniature D-type

Input Signals   Video: red, green, and blue analog signals; RS-343A standard;
                         .714 V peak to peak; positive-going
                         Sync on green: RS-343A compatible level; .286 V ± 10%
                         negative-going during blanking intervals
                         Separate Sync: 1 to 5 V peak to peak; negative- or positive-going
                         Composite Sync: 1 to 5 V peak to peak; negative- or positive-going

System Requirements

Power Macintosh, Macintosh Centris, Macintosh Quadra, some Macintosh Performas, or any NuBus compatible Macintosh with a Macintosh Display Card 24AC.

Macintosh II family, PowerBooks, Duo and Mini Dock, some Macintosh Performa, Macintosh LC, LC II, LC III, and Macintosh computers with Display Cards 4•8, 8•24, or 8•24GC installed work in 640x480 mode. Other modes possible with additional adapters.

System software version 7.1 or later

Controls and Ports

User Controls   Front panel: power, brightness and contrast controls
Additional controls available using the command button: horizontal
  and vertical shift, horizontal and vertical size, zoom and reset
Automatic degauss at power on; manual degauss by turning power
  switch off, then on (capable of full degauss after monitor is
  turned off for 20 minutes or more)

I/O Ports   Headphone/Speaker: One input and one pass-through port

Physical and Electrical

Power Supply   Voltage: 90–134 and 198–260 VAC, self-configuring
Frequency: 47–63 Hz
Power: 90 W maximum

Size and Weight   Height: 16.5 in. (424 mm)
Width: 15.8 in. (405 mm)
Depth: 17.6 in. (452.3 mm)
Weight: 31 lb. (14 kg)

Monitor Stand   Built-in, tilt-and-swivel stand

Environmental

Temperature	Operating: 50°F–104°F (10°C–40°C) Storage: 32°F–140°F (0°C–60°C) Shipping: -4°F to 151°F (-40°C to 65°C)
Altitude	Operating: to 10,000 ft. (3,000 m) Shipping: to 15,000 ft. (4,500 m)
Humidity	Operating: 20–95% maximum, noncondensing Storage: 5–90% maximum, noncondensing Shipping: 5–95% maximum, noncondensing
Power Savings Feature	Conforms to the Energy Star Program of the United States Environmental Protection Agency

Troubleshooting

Apple Multiple Scan 15 Display

General

The Symptom Charts included in this chapter will help you diagnose specific symptoms related to your product. Because cures are listed on the charts in the order of most likely solution, try the first cure first. Verify whether or not the product continues to exhibit the symptom. If the symptom persists, try the next cure. (Note: If you have replaced a module, reinstall the original module before you proceed to the next cure.)

If you are not sure what the problem is, or if the Symptom Charts do not resolve the problem, refer to the Flowchart for the product family.

For additional assistance, contact Apple Technical Support.

Symptom Charts

No Raster

No raster, LED off

1 Check power cord connection.
2 Replace power cord.
3 Return monitor to Apple.

No raster, LED on

1 Adjust contrast and brightness controls. See Adjustments chapter.
2 Verify that video card in computer is working properly.
3 Return monitor to Apple.

Geometry

Raster too short, tall, narrow, or wide

1 Adjust vertical and horizontal size. See Adjustments chapter.
2 Reset controls to factory settings. See Adjustments chapter.
3 Turn off Zoom feature. See Adjustments chapter.
4 Return monitor to Apple.

Raster not centered

1 Check that distortion is not due to environmental conditions. Move monitor.
2 Adjust vertical and horizontal center controls. See Adjustments chapter.
3 Return monitor to Apple.

Video

Screen dark or
appears dim

1 Adjust brightness. See Adjustments chapter.
2 Energy Saver option may be activated. Move mouse or press
   any key to reactivate monitor.
3 Return monitor to Apple.

Screen flickers

1 Check that distortion is not due to environmental conditions.
   Move monitor.
2 Move monitors at least 16 inches apart if using more than
   one monitor on computer.
3 Return monitor to Apple.

No colors appear on
screen

1 Check to make sure that number of colors is set correctly on
   Monitors control panel.
2 Return monitor to Apple.

Miscellaneous

Indicator light goes out before adjustments are finished

Do not pause for more than 10 seconds while adjusting controls. If you pause for 10 seconds, monitor assumes you are finished.

No sound from the computer

1   Disconnect sound output cable or headphones from sound output port.
2   Replace sound cable.
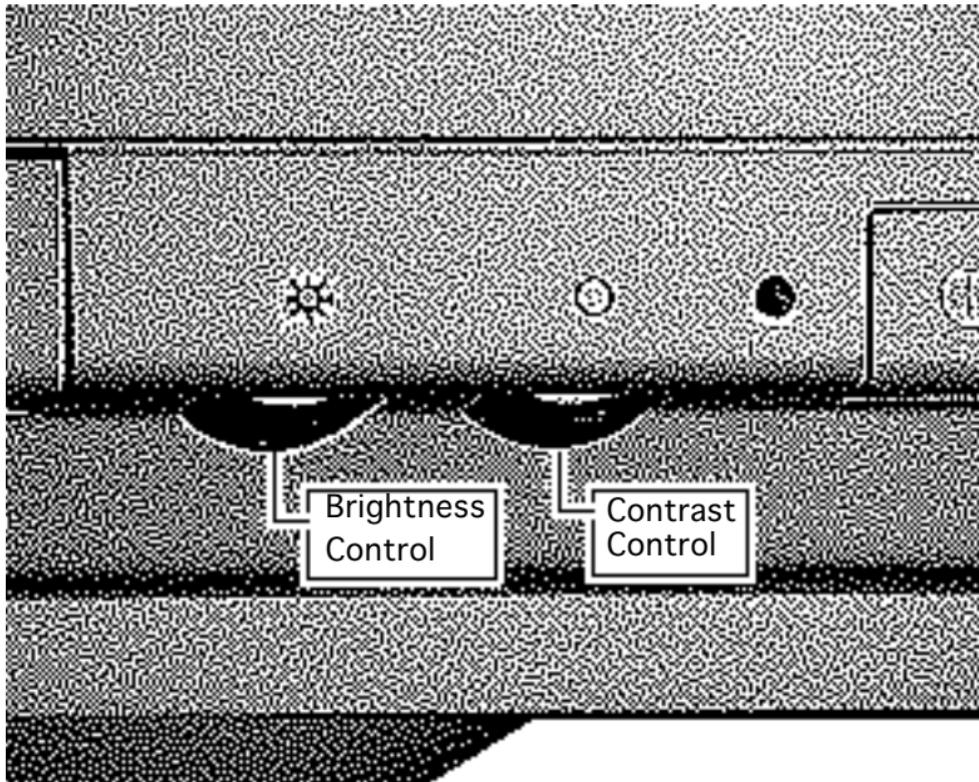3   Return monitor to Apple.

Adjustments

Apple Multiple Scan 15 Display
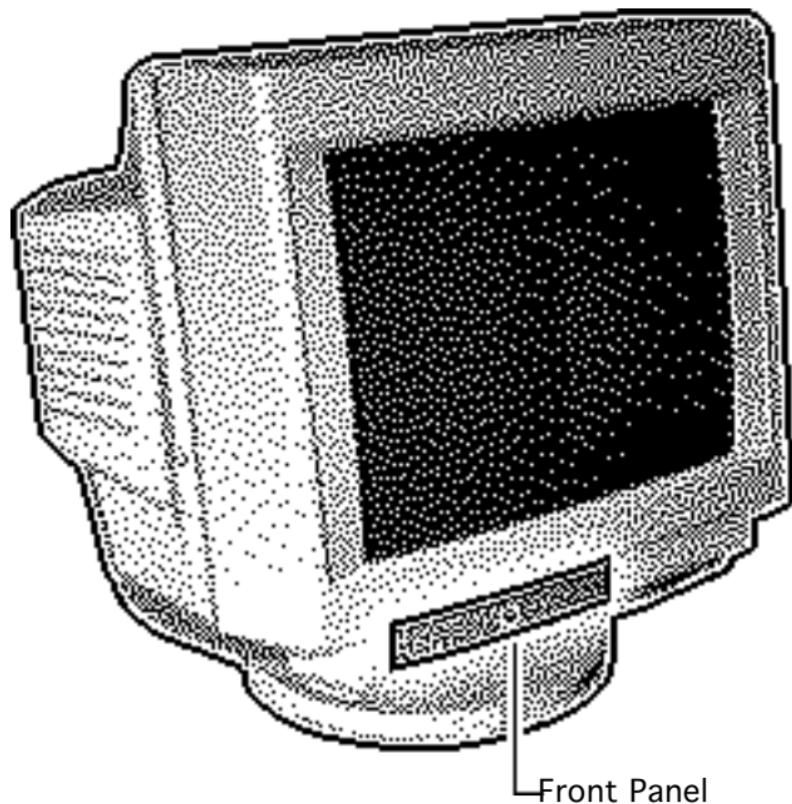
Brightness and Contrast

No preliminary steps are required before you begin this procedure.

Brightness and Contrast Controls
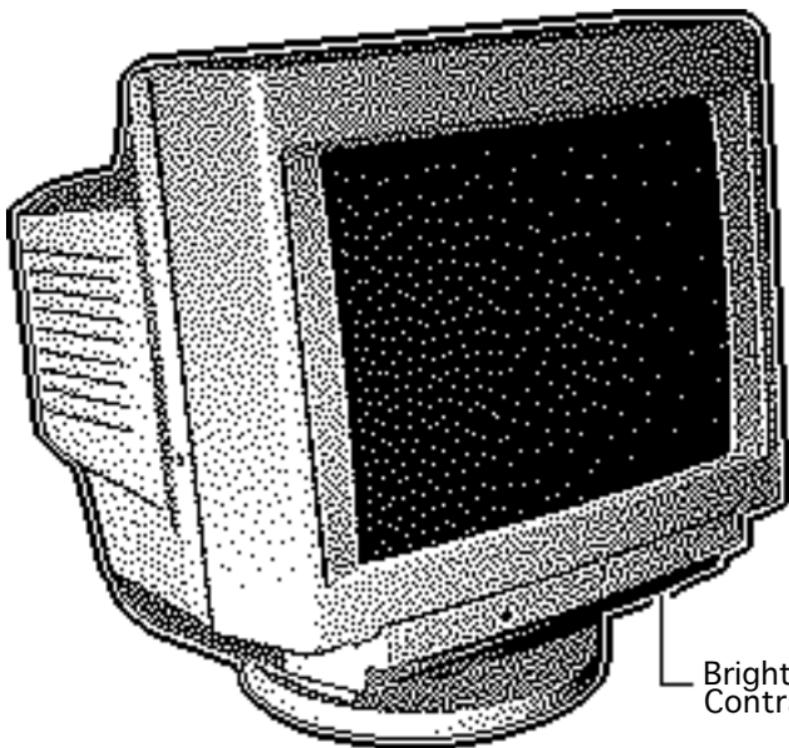
Brightness Control

Contrast Control

1. Move the brightness control to increase or decrease brightness.

2. Move the contrast control to increase or decrease contrast.

Geometry

No preliminary steps are required before you begin this procedure.

Note: Monitor controls are set at the factory. You can fine-tune the picture and make adjustments by using the front panel controls. The monitor will use your settings at each power on. (See "Factory Settings" in this chapter to recall factory settings).

Open the front panel.

Front Panel

Vertical Center Indicator

Select Button

"+" Button

"-" Button

Vertical Center

1 Press and hold down the select button until the vertical center indicator light goes on; then release the button.

2 Press the "-" button to move the center of the picture down.

3 Press the "+" button to move the center of the picture up.

Horizontal
Center
Indicator

Select
Button
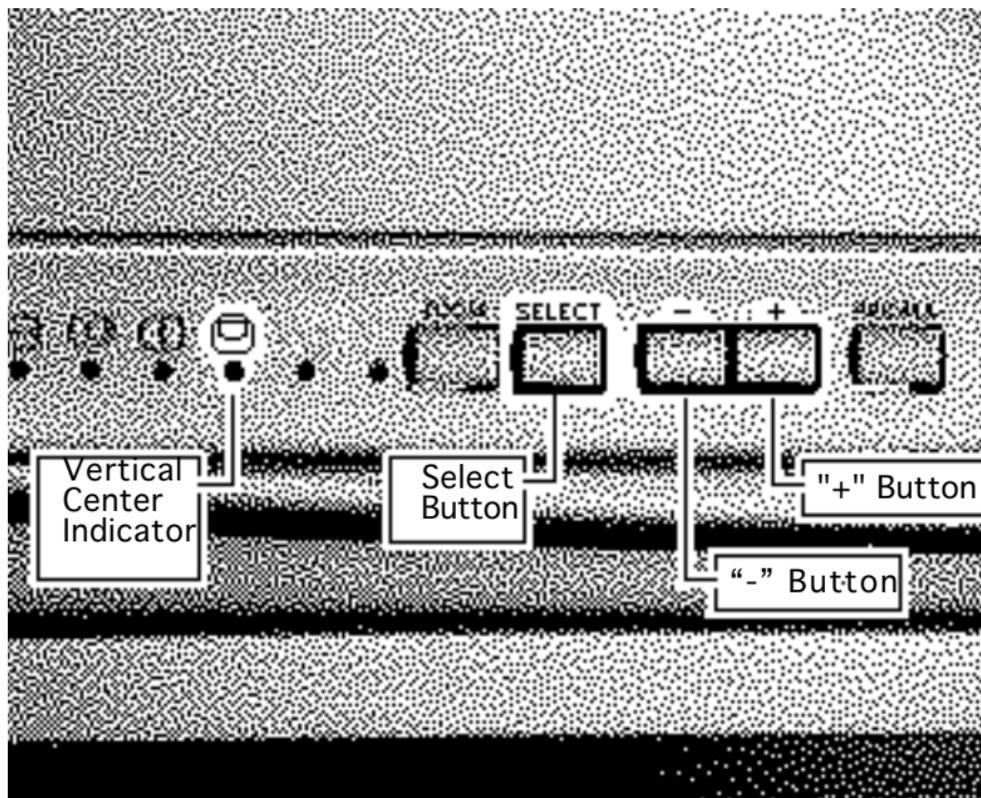
"+" Button

"-" Button

Horizontal Center

1   Press and hold down the select button until the horizontal center indicator light goes on; then release the button.

2   Press the "-" button to move the center of the picture to the left.

3   Press the "+" button to move the center of the picture to the right.

Height Indicator

Select Button
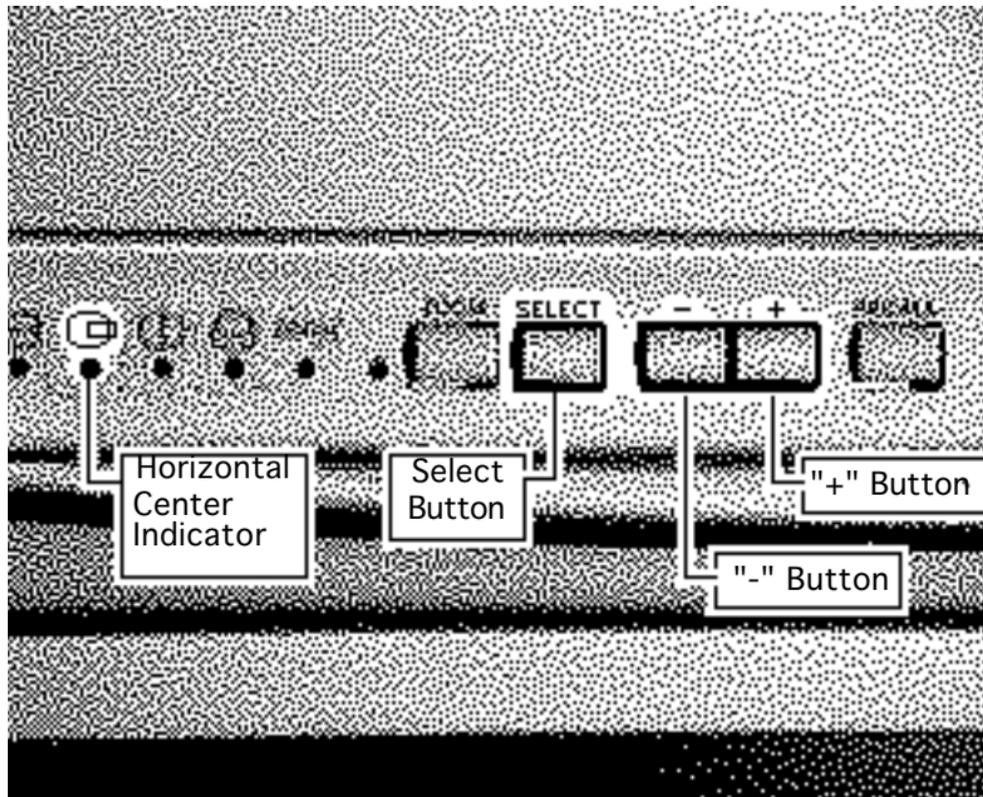
"+" Button

"-" Button

Vertical Size

1 Press and hold down the select button until the height indicator light goes on; then release the button.

2 Press the "-" button to reduce the height of the picture.

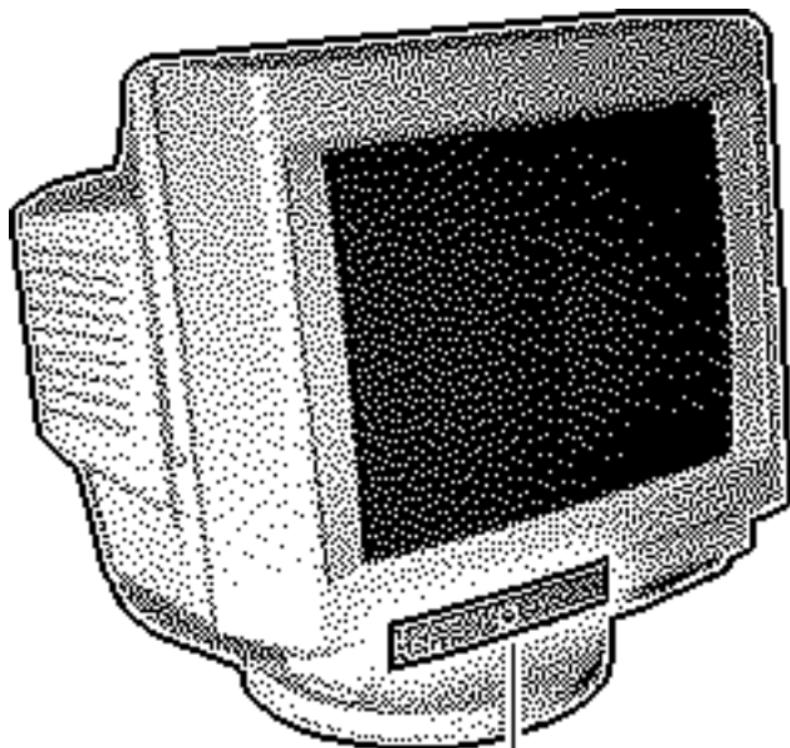3 Press the "+" button to increase the height of the picture.

Width Indicator

Select Button
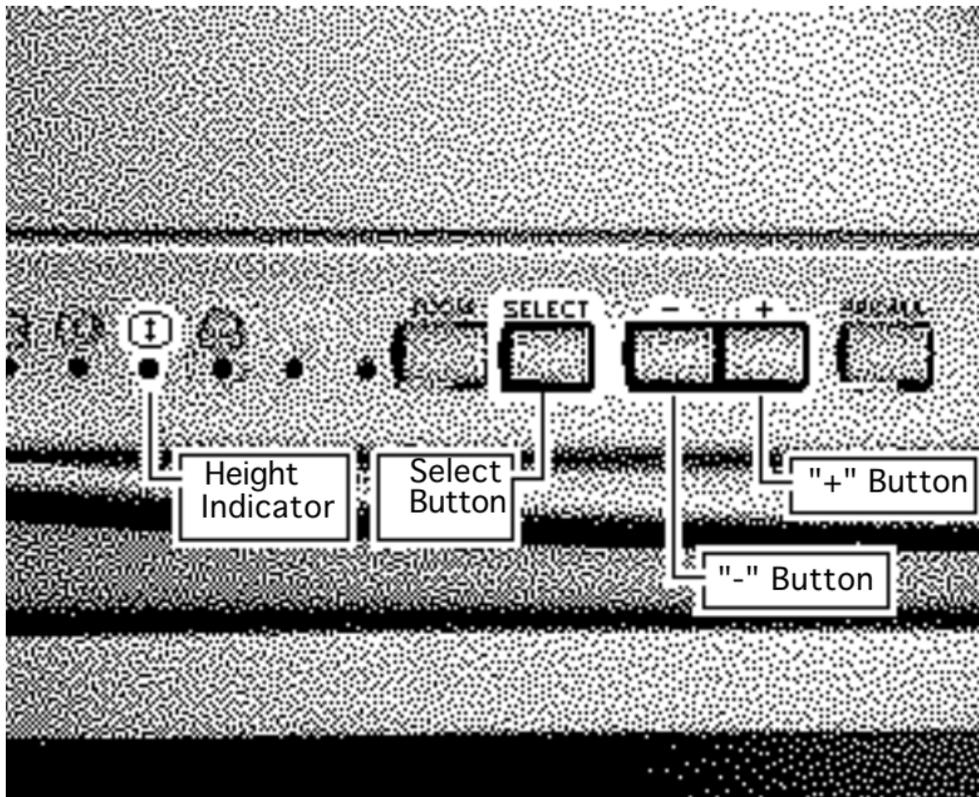
"+" Button

"-" Button

Horizontal Size

1 Press and hold down the select button until the width indicator light goes on; then release the button.

2 Press the "-" button to reduce the width of the picture.

3 Press the "+" button to increase the width of the picture.
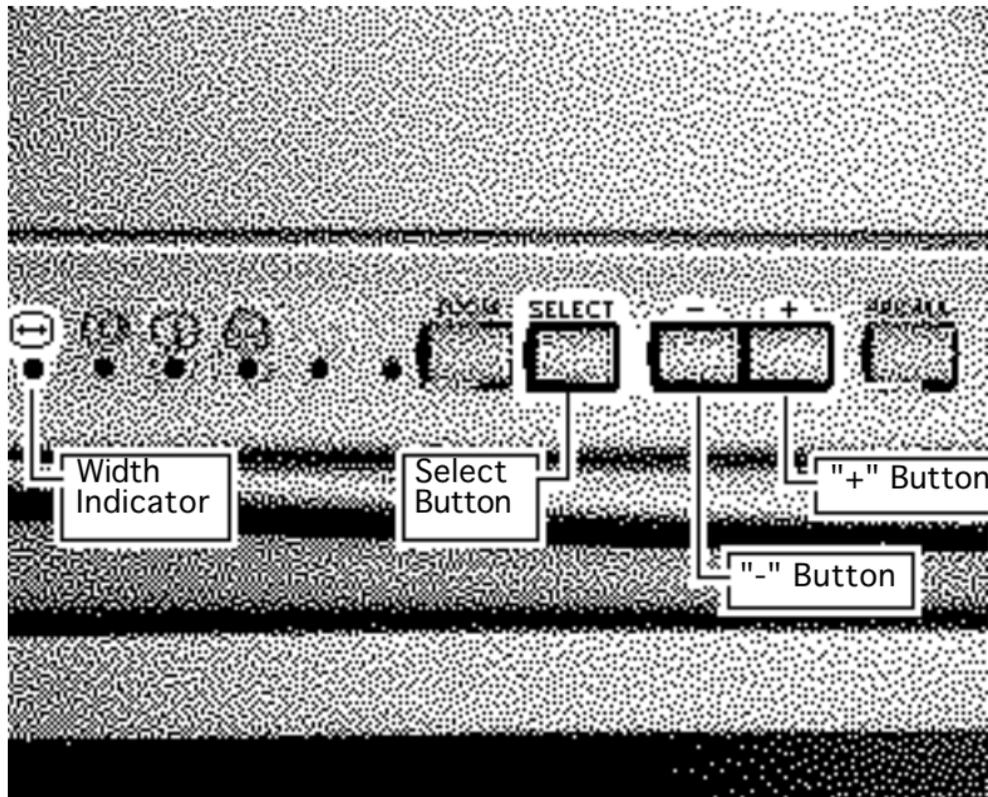
Zooming

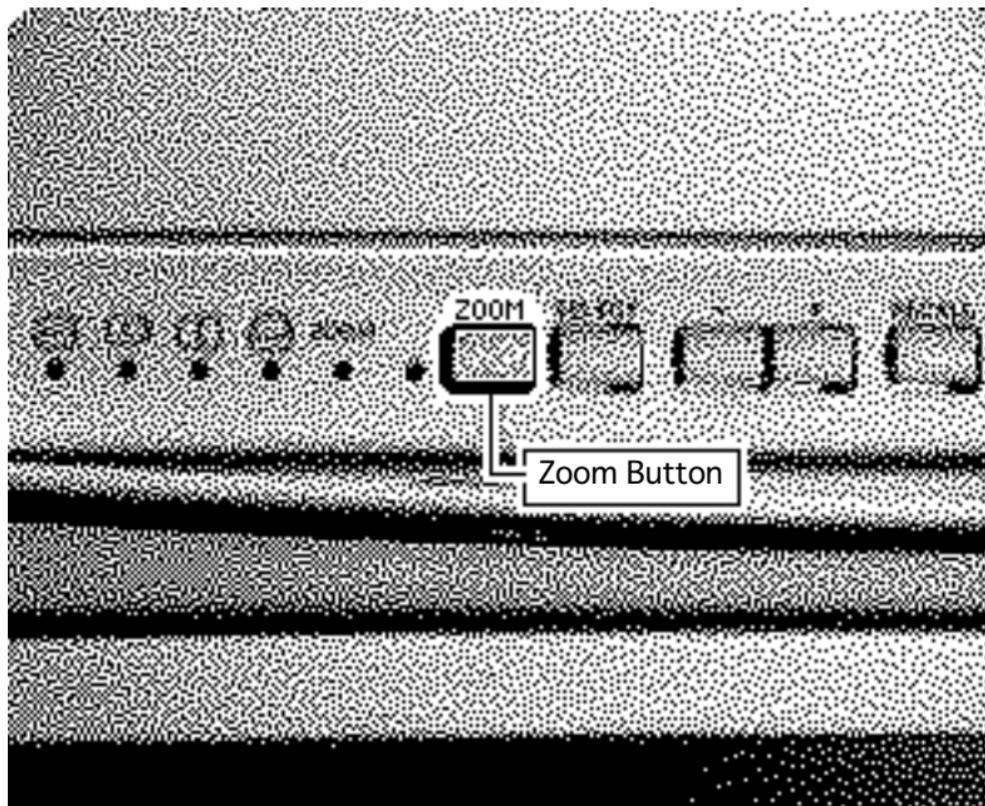No preliminary steps are required before you begin this procedure.

Note: Zooming adjusts the picture so that it fills the entire screen. The process removes any black borders around the picture.

1 Open the front panel.

Front Panel

Zoom Button

2　Press the zoom button.

3　To return to normal size, press the zoom button again.
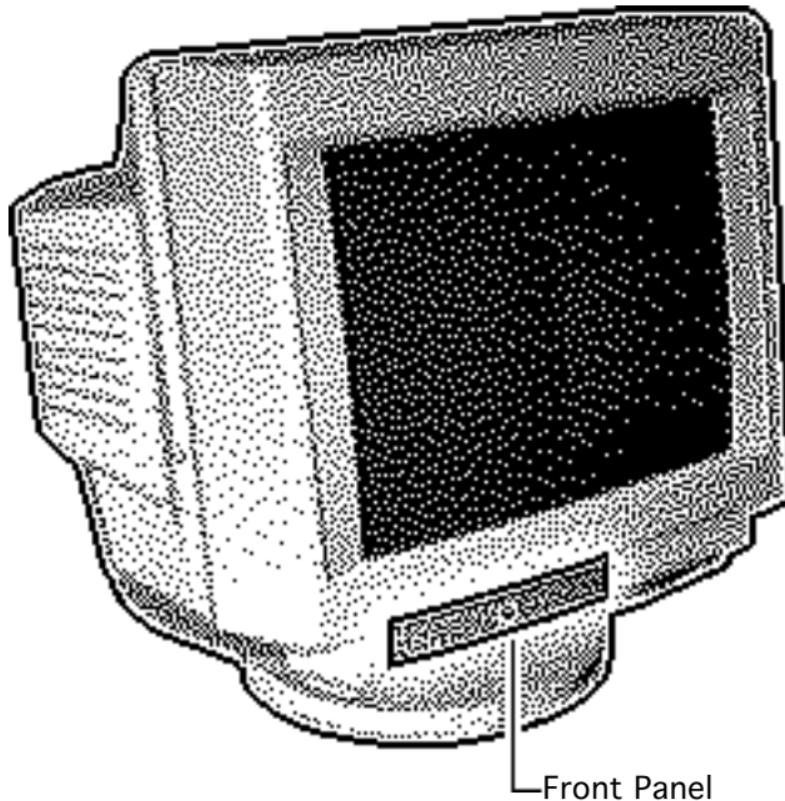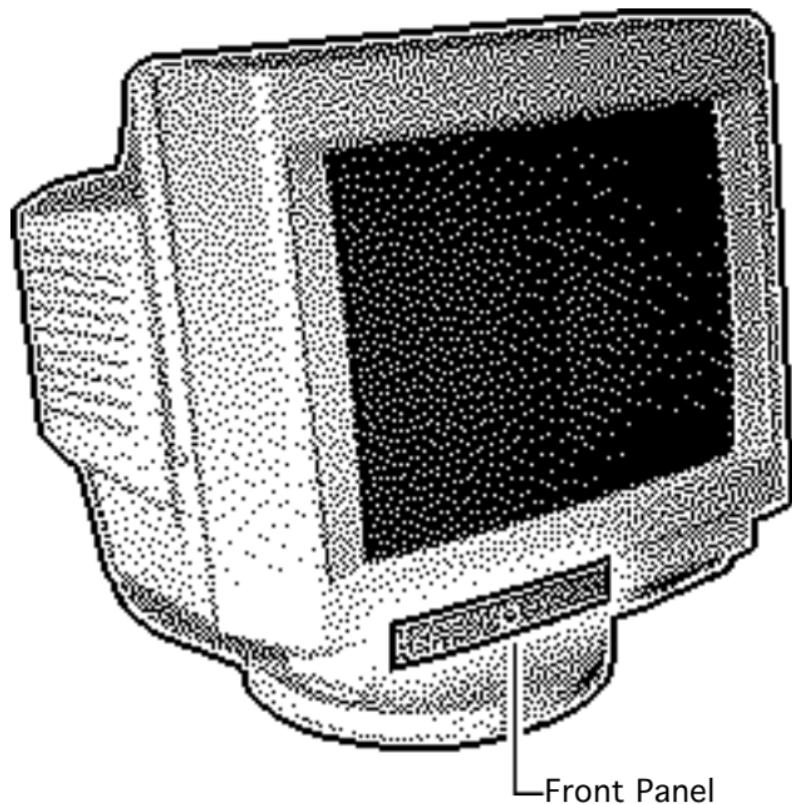
Factory Settings

No preliminary steps are required before you begin this procedure.

Note: The controls for the monitor are set at the factory. You can fine-tune the picture and make adjustments to the settings using the front panel controls. The monitor will use your settings each time the computer is turned on.

If you do not permanently overwrite the factory

└─Front Panel

settings (as shown in "Replacing Factory Settings" in this chapter), you can use the recall function to return to factory settings.
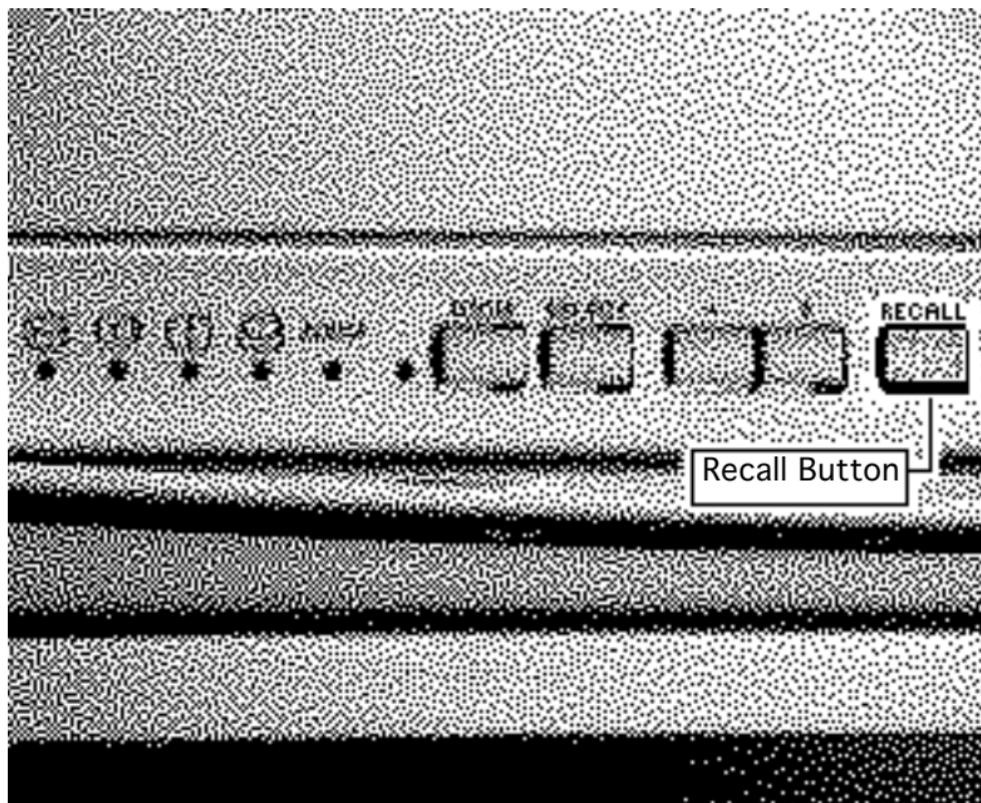
Open the front panel.

Front Panel

Recall Button

Recall

Note: Turn off zooming before pressing the recall button.

Press the recall button to return to the factory settings.

Opening

Replacing Factory Settings

Note: After changing the settings of the monitor, you can permanently replace the original factory settings with your own.

1　Set the controls on the monitor to the desired settings.

2　Insert a pen or straightened paperclip into the opening to the left of the zoom button. The new settings are now
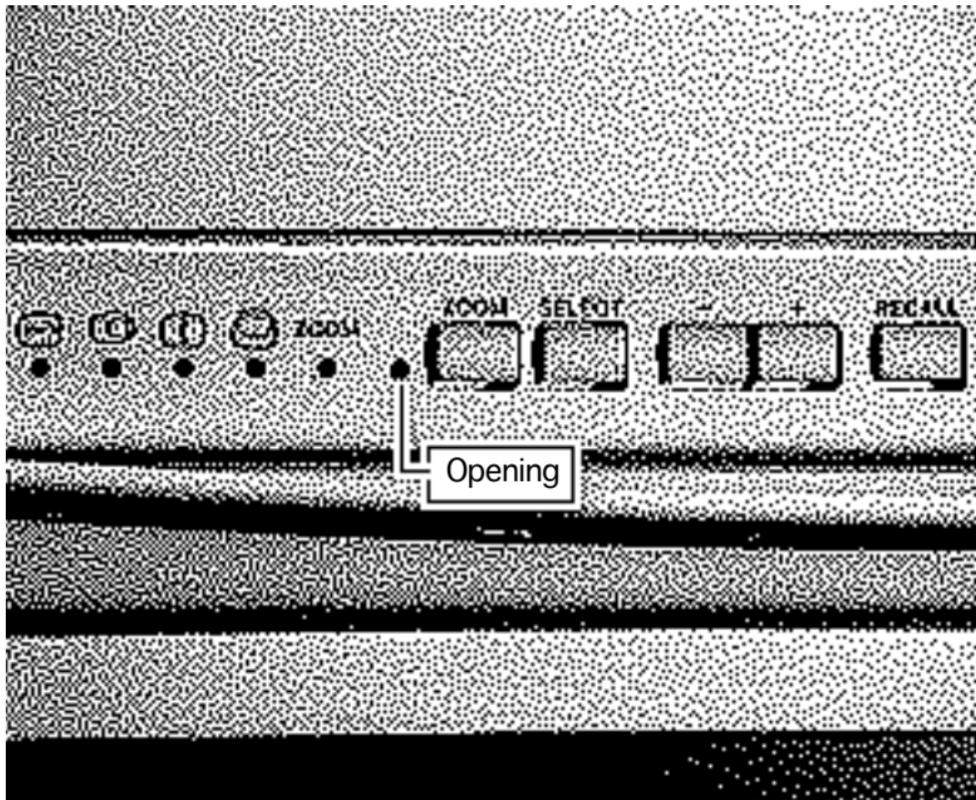
stored permanently in the monitor's memory.

Important: The original factory settings are now permanently replaced with the current settings. You cannot recall the original factory settings. Pressing the recall button only restores the last settings you stored.