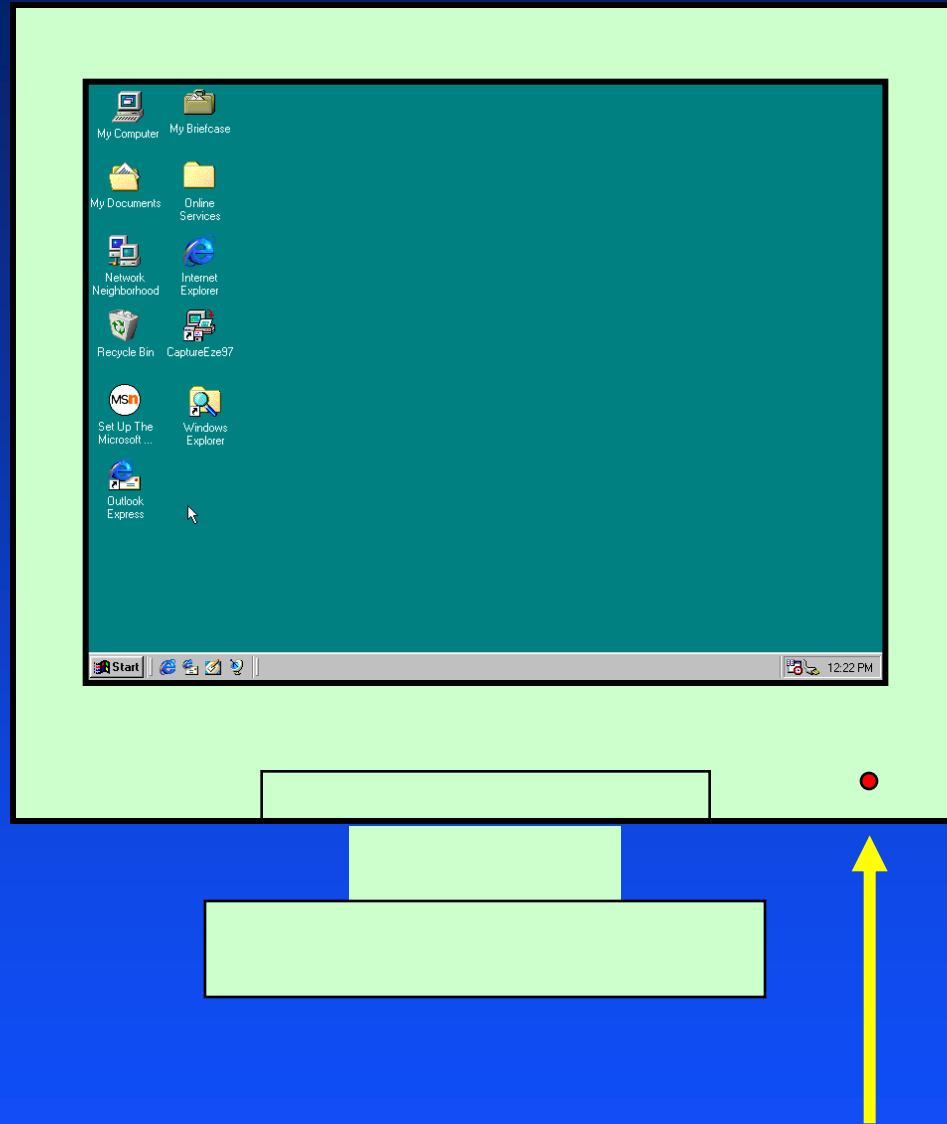


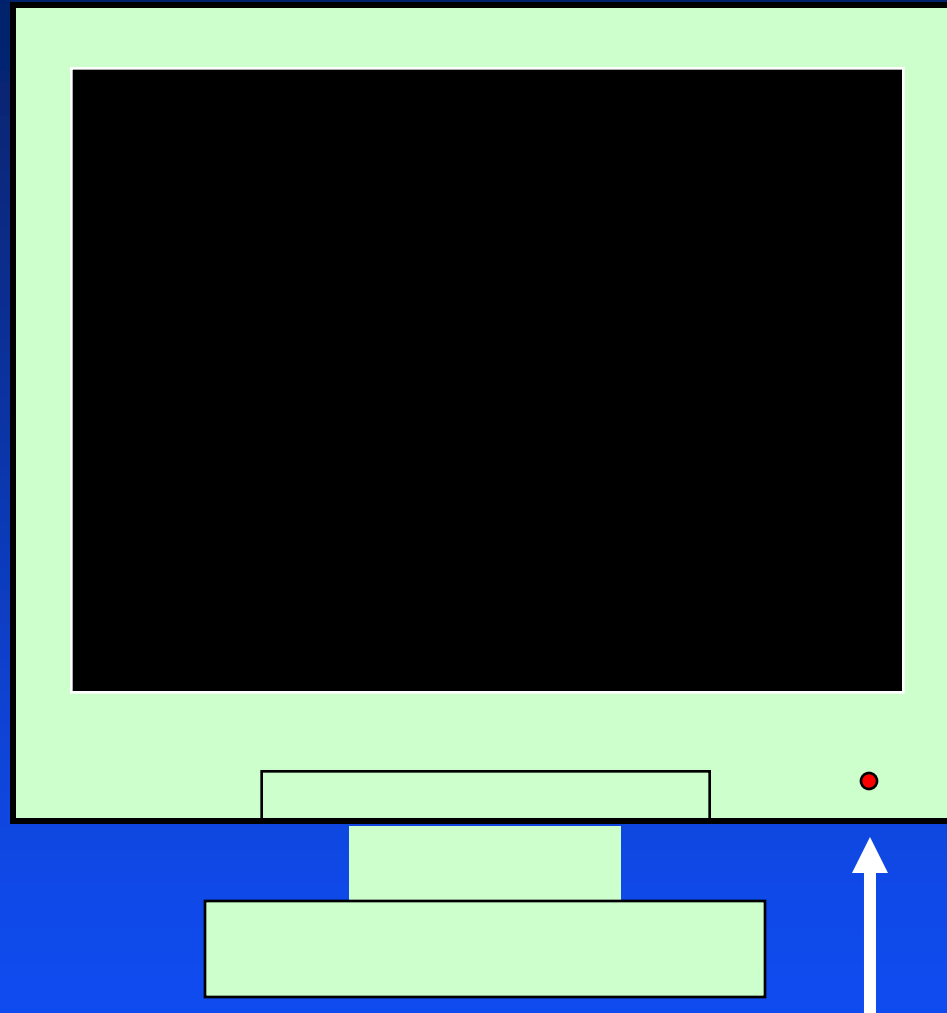
Lab 6-2

Video System Troubleshooting

Using a Monitor's Front Panel LED as a Troubleshooting Tool



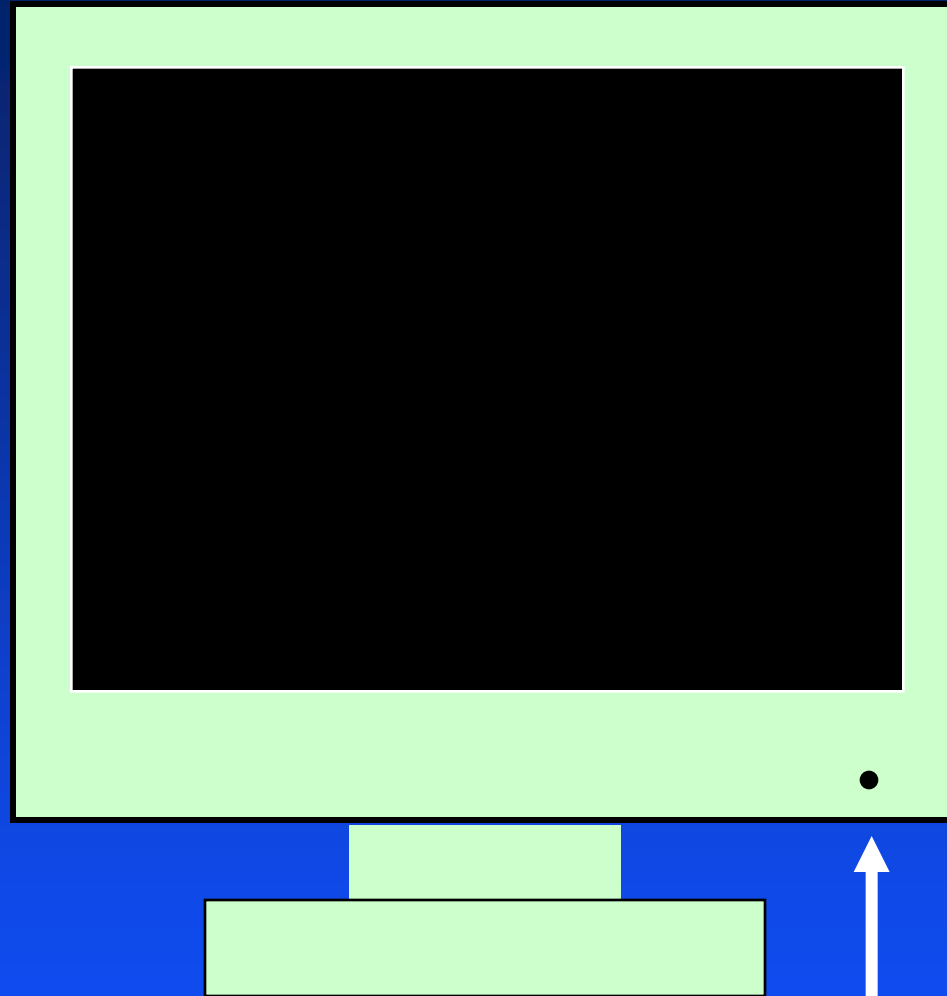
This little power LED tells a lot...



No Picture and LED ON...

No Picture and Power LED ON...

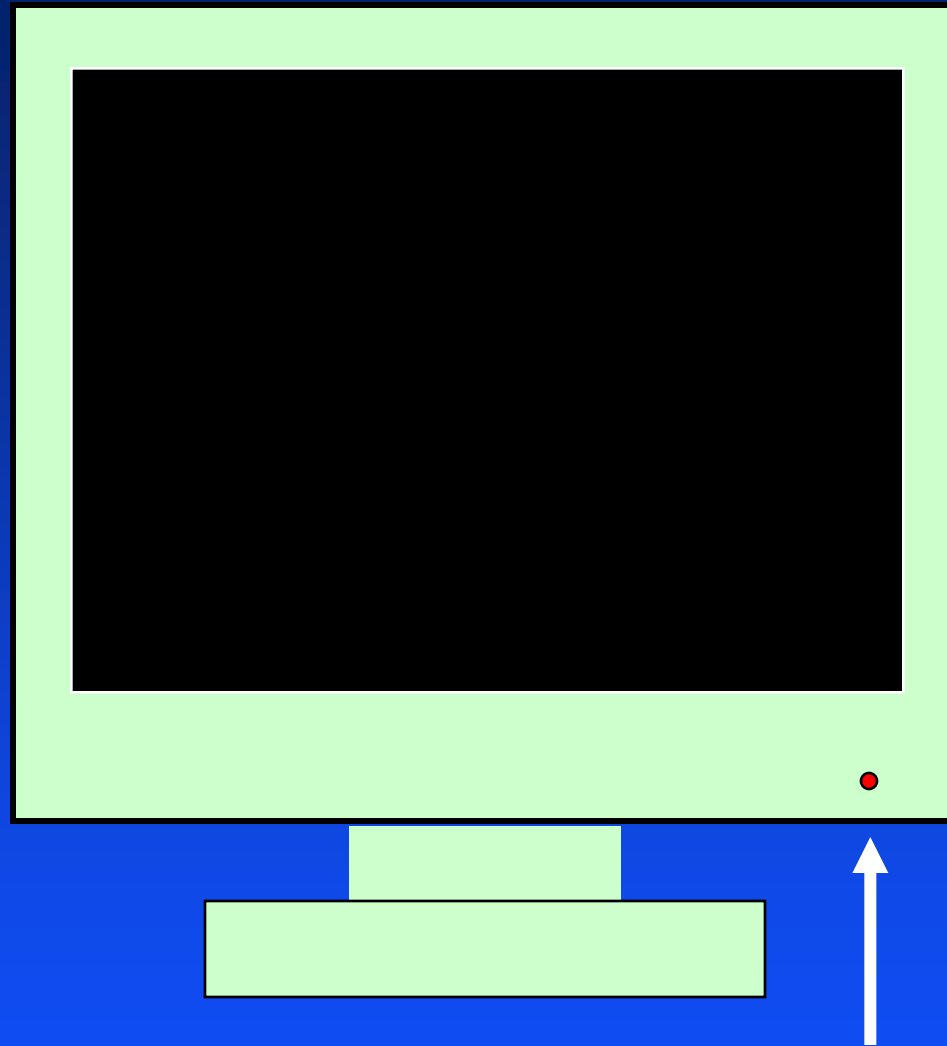
- Adjust contrast and brightness controls all the way up.
- Press RESET button if monitor has one.



No Picture and LED OFF...

No Picture and Power LED OFF...

- Monitor Power Switch OFF?
- Monitor's AC Cord Unplugged?



No Picture and LED BLINKING...

No Picture and Power LED Blinks...

- Computer turned off?
- Cable between monitor and computer disconnected?
- Power Management feature turned on and monitor in low-power stand by mode?

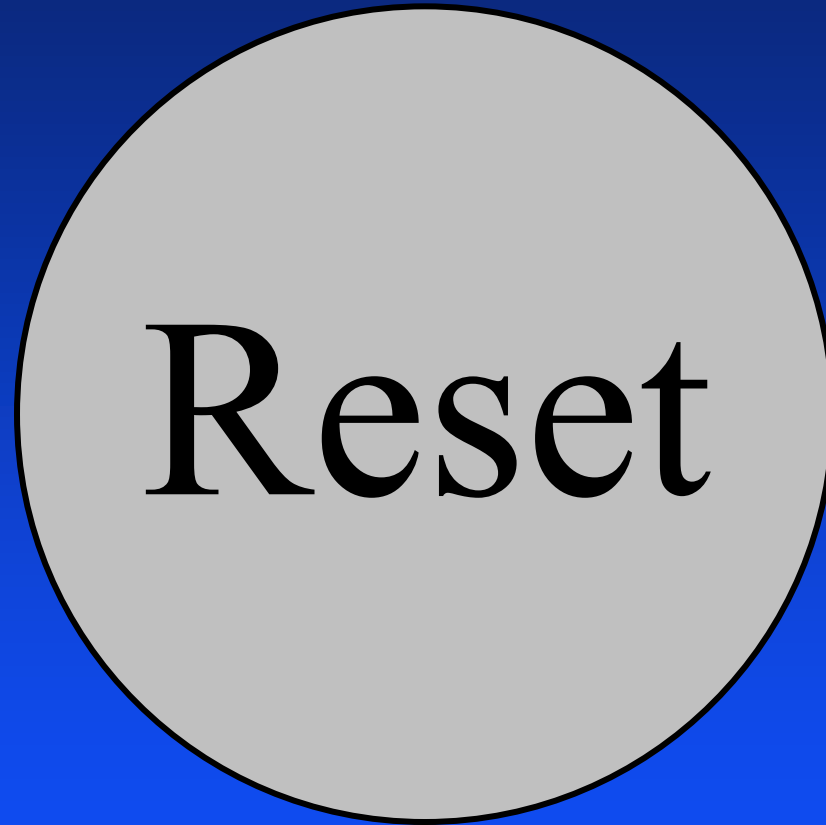
Cleaning a Monitor

To clean a video monitor...

- Unplug it first
- Dust it with a dry soft cloth (screen too) or a cloth dampened with water
- Clean ventilation slots

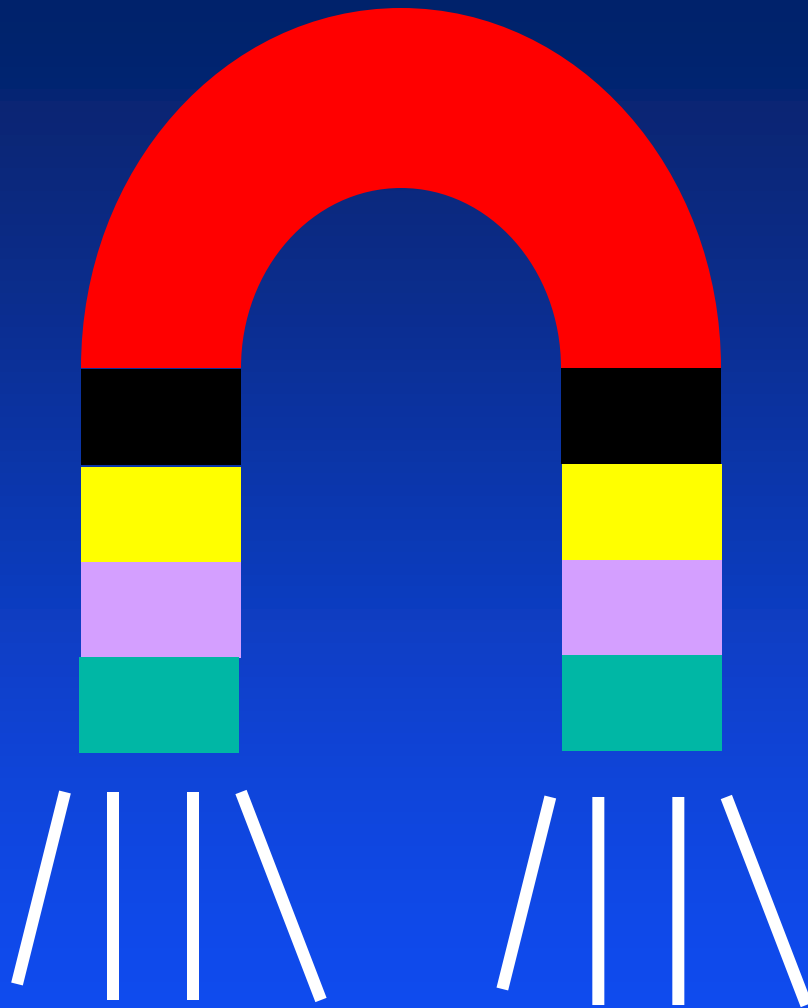
Picture Adjustments

Reset Button

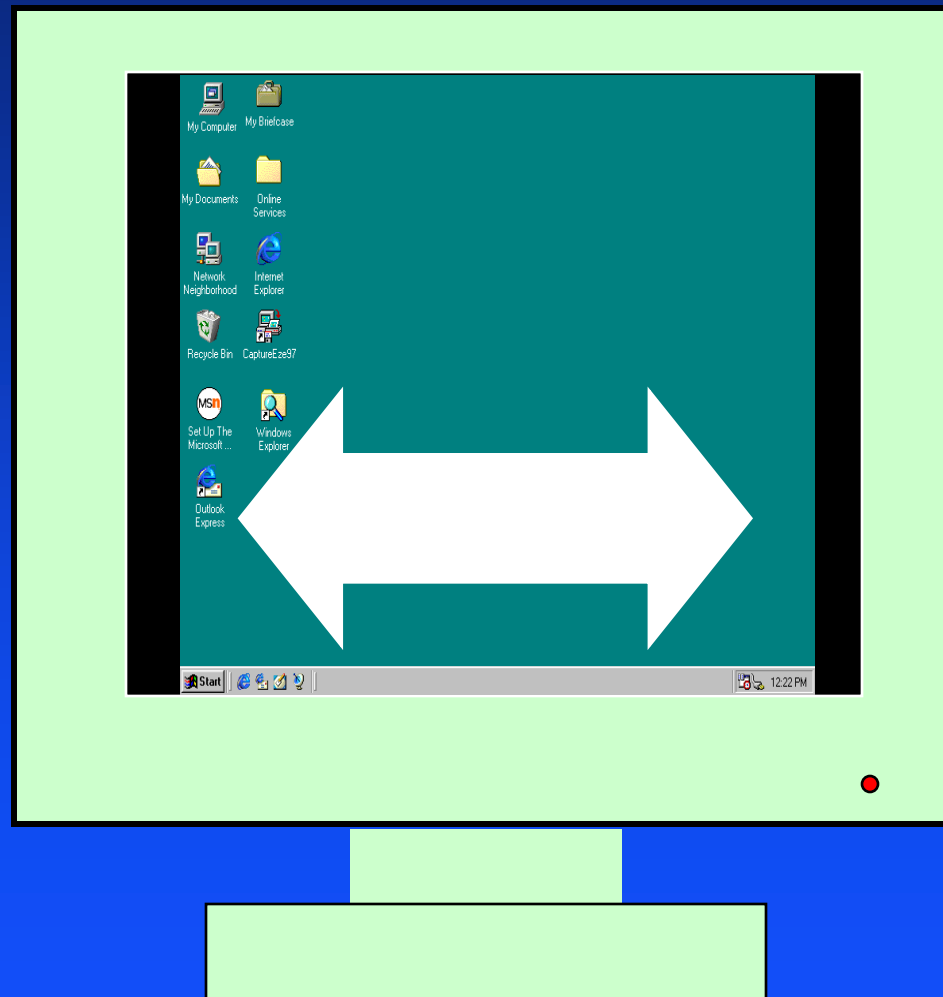


Degauss Button

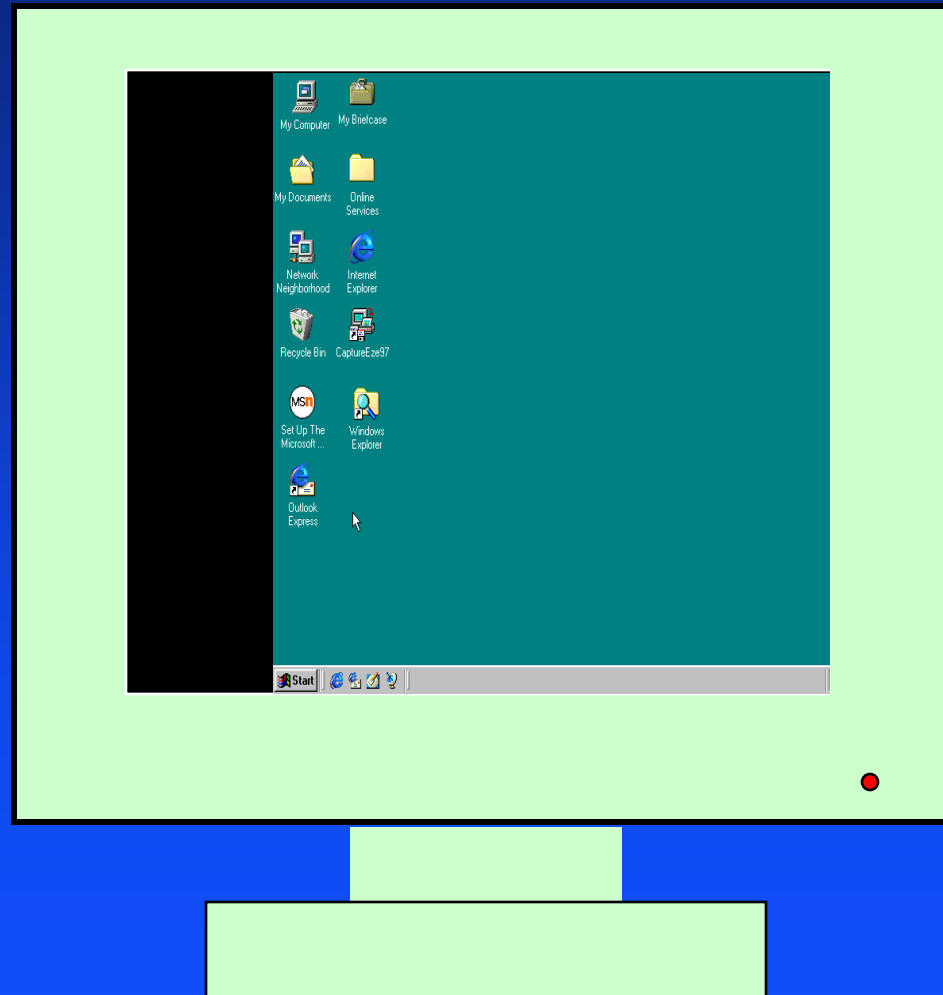




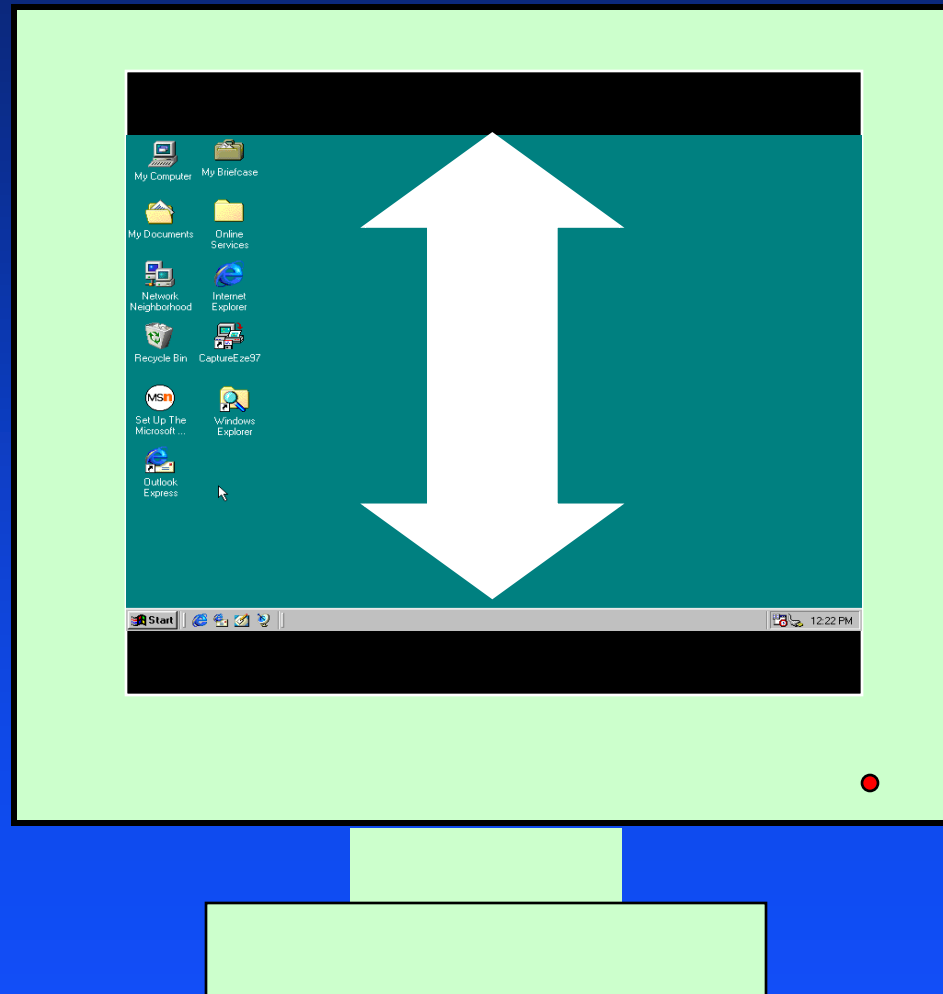
Horizontal Size



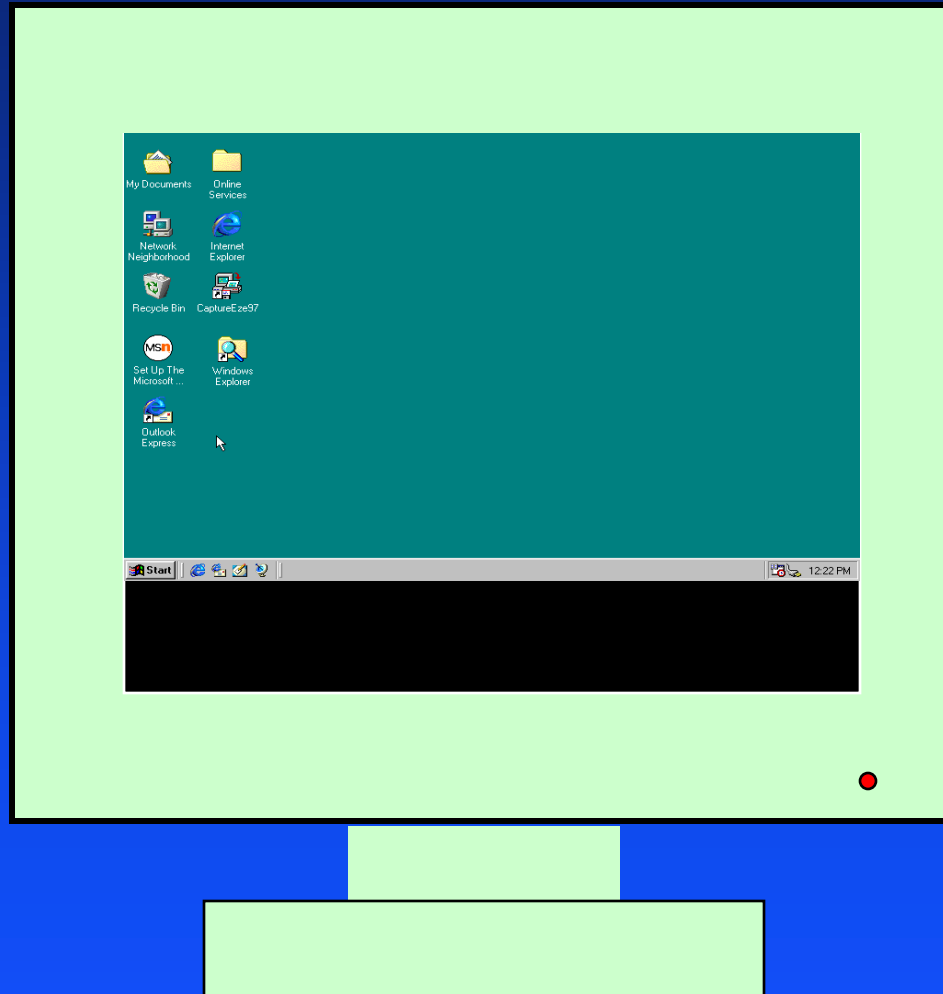
Horizontal Position



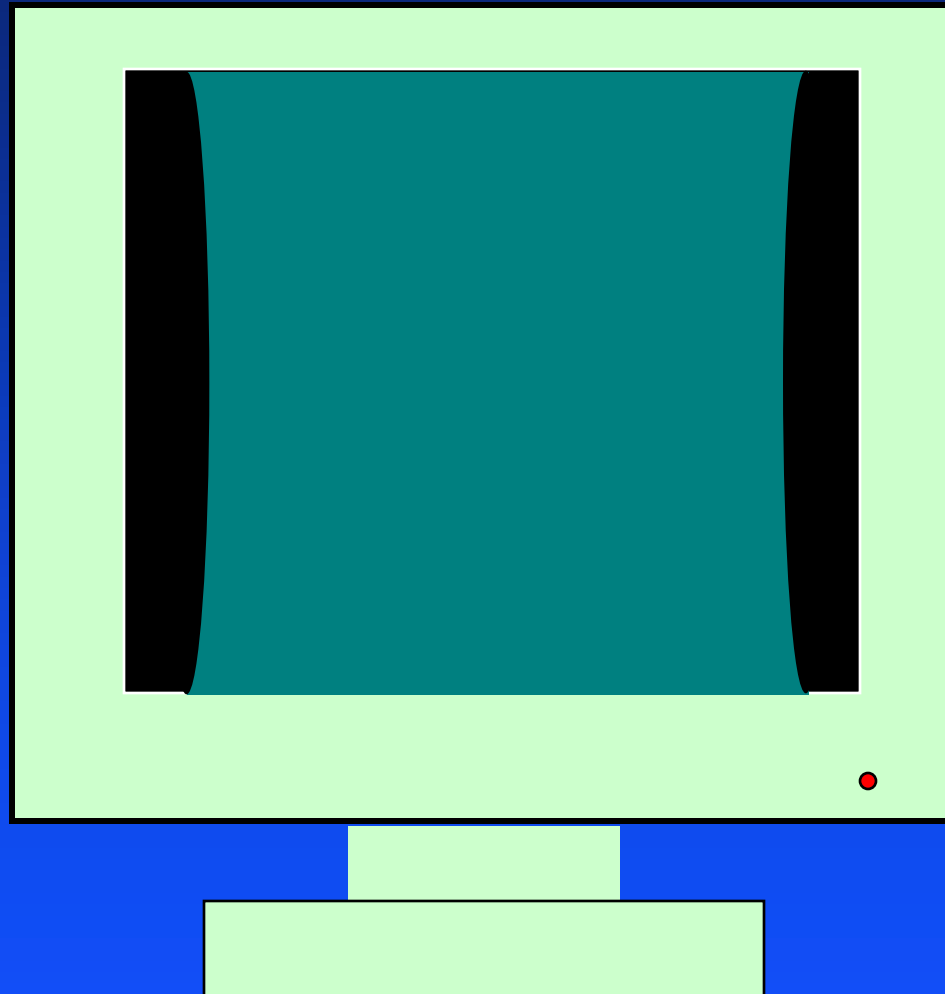
Vertical Size



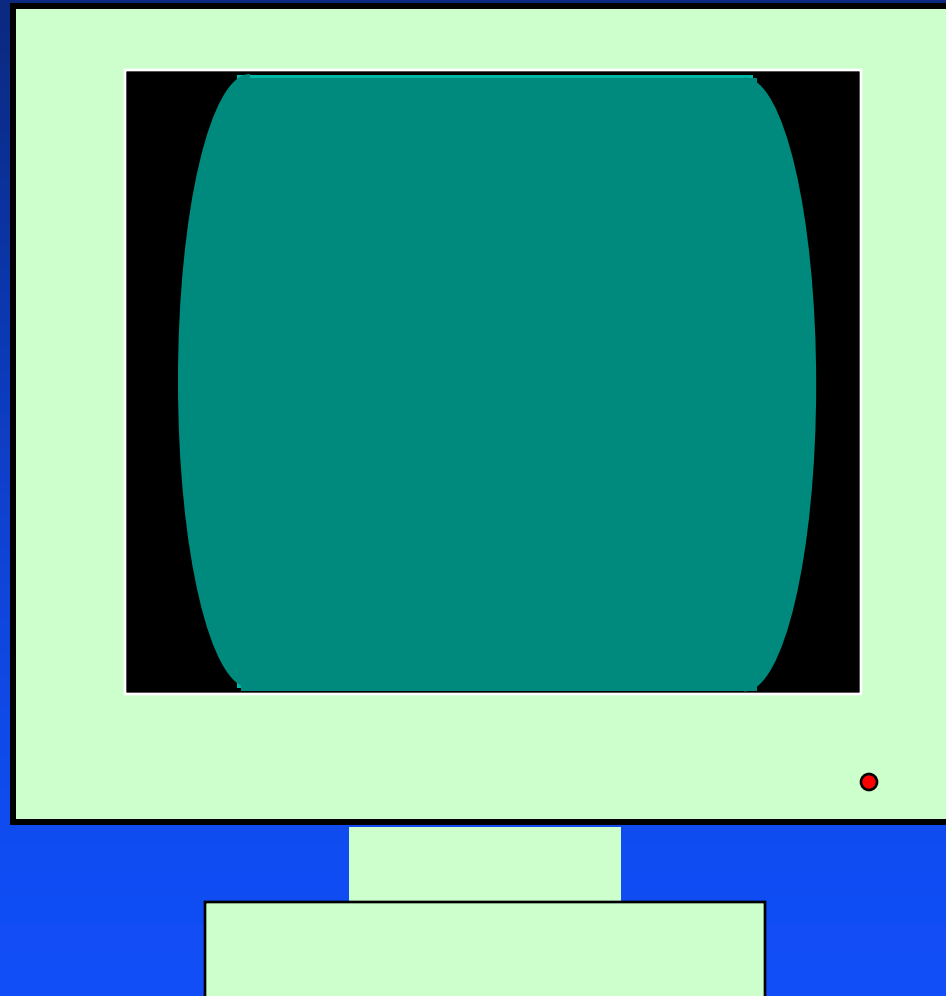
Vertical Position



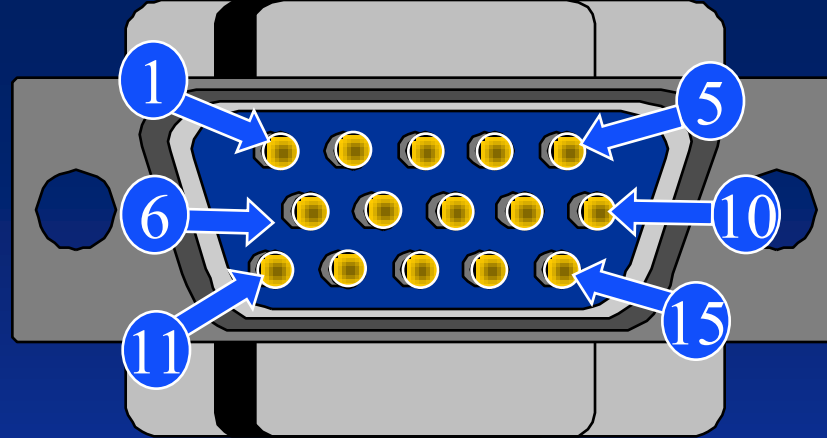
Pin Cushion



Bow



VGA



Cable End

<u>Pin</u>	<u>Signal</u>	<u>Pin</u>	<u>Signal</u>
1	Red	9	No Connection
2	Green	10	Sync Ground
3	Blue	11	Ground
4	Ground	12	Serial Data
5	Display Data Channel	13	Horizontal Sync
	Ground	14	Vertical Sync (VCLK)
6	Red Ground	15	Serial Clock
7	Green Ground		
8	Blue Ground		

Opening a Monitor to Repair It

Opening a Monitor



Basic Video Troubleshooting 101

Basic Video Troubleshooting 101

- Is the monitor turned on?

Basic Video Troubleshooting 101

- Is the monitor turned on?
- Is the monitor's AC cord plugged in?

Basic Video Troubleshooting 101

- Is the monitor turned on?
- Is the monitor's AC cord plugged in?
- Turn up brightness/contrast controls.

Basic Video Troubleshooting 101

- Is the monitor turned on?
- Is the monitor's AC cord plugged in?
- Turn up brightness/contrast controls.
- **Check the video cable.**

Basic Video Troubleshooting 101

- Is the monitor turned on?
- Is the monitor's AC cord plugged in?
- Turn up brightness/contrast controls.
- Check the video cable.
- **Check Power On Self-Test (POST) beeps.**

Basic Video Troubleshooting 101

- Is the monitor turned on?
- Is the monitor's AC cord plugged in?
- Turn up brightness/contrast controls.
- Check the video cable.
- Check Power On Self-Test (POST) beeps.
- **Re-seat video card and socketed chips.**

Basic Video Troubleshooting 101

- Is the monitor turned on?
- Is the monitor's AC cord plugged in?
- Turn up brightness/contrast controls.
- Check the video cable.
- Check Power On Self-Test (POST) beeps.
- Re-seat video card and socketed chips.
- **Check any configuration switch settings.**

Basic Video Troubleshooting 101

- Is the monitor turned on?
- Is the monitor's AC cord plugged in?
- Turn up brightness/contrast controls.
- Check the video cable.
- Check Power On Self-Test (POST) beeps.
- Re-seat video card and socketed chips.
- Check any configuration switch settings.
- **Swap video card, monitor, video cable.**

Basic Video Troubleshooting 101

- Is the monitor turned on?
- Is the monitor's AC cord plugged in?
- Turn up brightness/contrast controls.
- Check the video cable.
- Check Power On Self-Test (POST) beeps.
- Re-seat video card and socketed chips.
- Check any configuration switch settings.
- Swap video card, monitor, video cable.
- **Enter Safe Mode or re-load video driver.**

Now, it's your turn.