

The block diagram illustrates the architecture of a color monitor system. Key components and their interconnections are as follows:

- Power Section:** An AC input (100-120V, 60Hz) is connected to a POWER SUPPLY REGULATOR, which provides 14V, 12V, -12V, and 76V rails. A 5V REGULATOR is also shown, connected to the 12V rail.
- Audio Section:** AUDIO INPUT is processed by an LM1203 VIDEO PRE-AMP, then a VIDEO OP, and a CUT-OFF CK. The signal is then amplified by an AUDIO AMP (TDA1496) and sent to SPEAKERS. A VOLUME CONTROL is also present.
- Video and Deflection Section:** The video signal from the LM1203 is processed by the VIDEO OP and then the CUT-OFF CK. The output is connected to the LM1290 H-OSC PROCESSOR & X-RAY PROJECTOR. The LM1290 is also connected to a 12V REGULATOR and a DC-DC CONVERTER. The LM1290 outputs to the HORIZONTAL DRIVER, which then connects to the HORIZONTAL DEFLECTION & S-CORRECTION block. This block is also connected to a DIODE MODULATOR and a FEED BACK loop.
- Geometry and Control Section:** The LM1290 is connected to an AFC (Automatic Frequency Control) block. The AFC block is connected to the LM1296 V-OSC & GEOMETRY COMPENSATOR. The LM1296 is connected to the VERTICAL DEFLECTION block. The VERTICAL DEFLECTION block is connected to the H-BLK+ and V-BLK+ outputs.
- Microprocessor and System Control:** A MICRO-PROCESSOR is connected to the 5V REGULATOR, a POWER SAVING CONTROL block, and a 2402/2404 E²-PROM FOR DDCI DDCII. The MICRO-PROCESSOR also controls the KEY SWITCH, FUNCTION, and CONTROL inputs. It is connected to the LM1290, LM1296, and the HORIZONTAL DEFLECTION & S-CORRECTION block.
- Other Components:** An HV GENERATOR (T301) is connected to the HORIZONTAL DEFLECTION & S-CORRECTION block and the H-BLK+ output. A DIODE MODULATOR is connected to the HORIZONTAL DEFLECTION & S-CORRECTION block and the H-BLK+ output.

