Personal Computer Hardware Reference Library

IBM Color Display

6361470

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Description

The IBM Color Display connects to the system unit with a signal cable of approximately 1.5 meters (5 feet) in length. This signal cable is a direct-drive interface from the Color/Graphics Monitor Adapter.

A second cable provides power to the display from an electrical outlet. The display unit has its own power control and indicator and will accept either 120-volt 60-Hz or 220-volt 50-Hz power. The power supply in the display automatically switches to match the applied power.

The display has a 340-millimeter (13-inch) CRT. The display may be placed on the system unit or on a nearby table or desk. The front panel of the display has a Power-On control, Power-On indicator, Brightness control, and Contrast control. The rear panel has the Vertical Hold and Vertical Size controls.

The characteristics of the IBM Color Display are as follows:

- Screen
  - High contrast (black).
  - Displays up to 16 colors when used with the IBM Color/Graphics Monitor Adapter.
  - Presentation of 80 characters wide by 25 rows deep.
  - Characters are defined in an 8 PEL-high by 8 PEL-wide matrix.
- Video Signal
  - Red, green, and blue signals, and intensity are independent.

- Vertical Drive
  - Positive synchronous, TTL-compatible
  - Frequency 50/60 Hz
  - Non-interlaced operation
- Horizontal Drive
  - Positive-level, TTL compatibility, at a frequency of 15.75 kHz.

Specifications

Size	
Height	297 mm (11.7 in.)
Length	392 mm (15.4 in.)
Depth	407 mm (15.6 in.)
Weight	11.8 kg (26 lb)
Heat Output	240 BTU/hr
Power Cable	
Length	1.83 m (6 ft)
Size	18 AWG
Signal Cable	
Length	1.5 m (5 ft)
Size	22 AWG

Physical Specifications

Logic Diagram

The following pages contain the logic diagram for the IBM Color Display.

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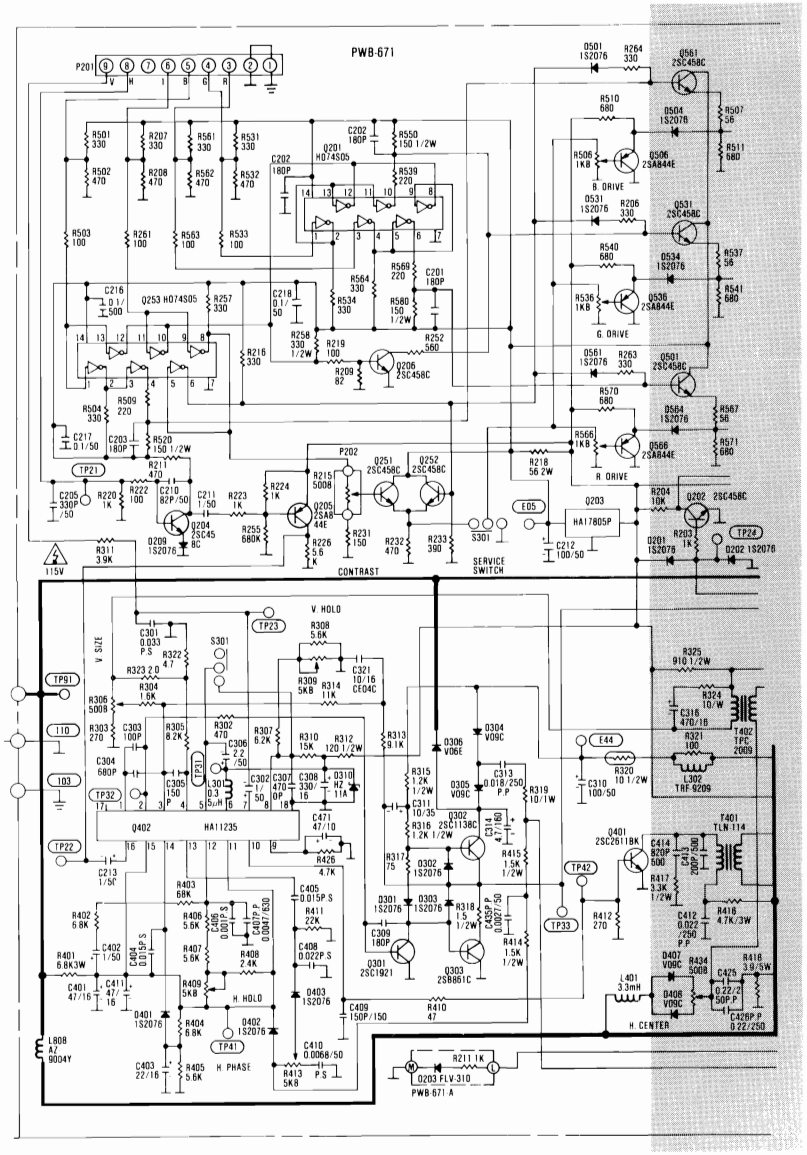

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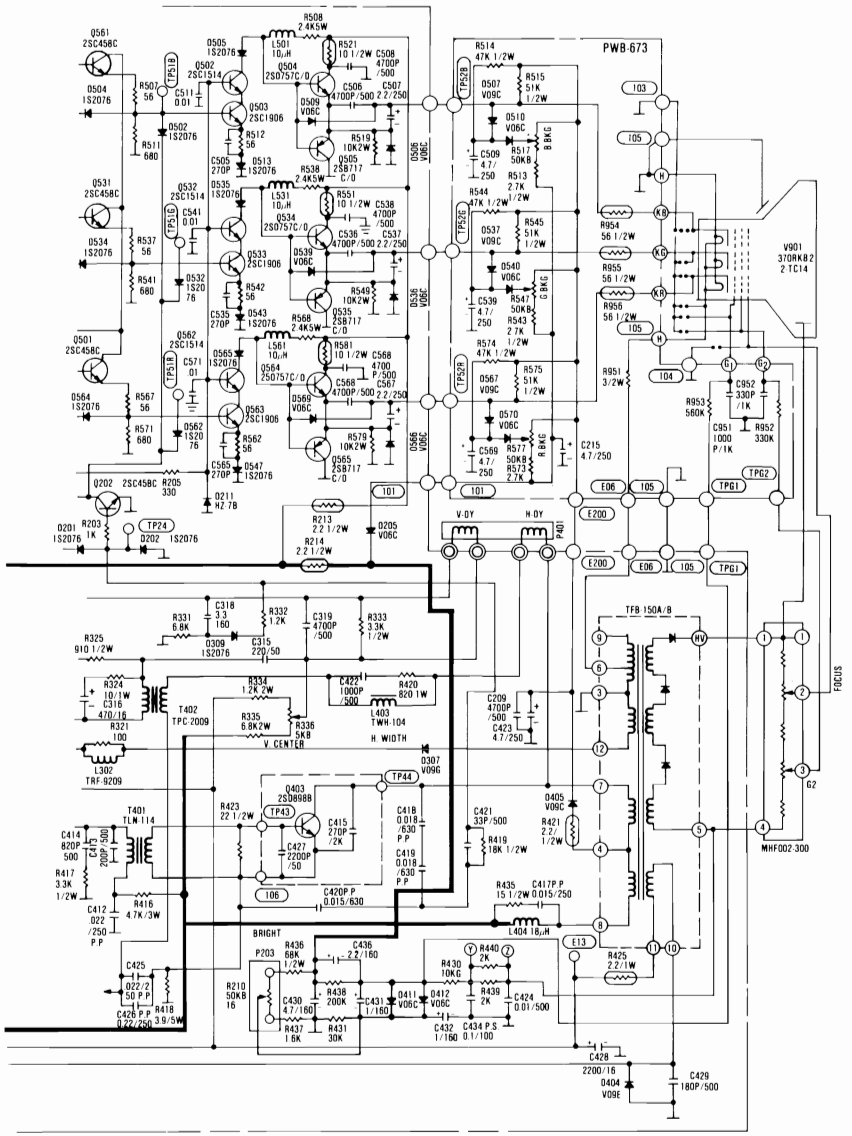
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