
SECTION VII

VIDEO MONITOR

FUNCTIONAL SPECIFICATIONS

The video monitor is a 12-inch solid state monitor designed for display of alphanumeric dot characters. The monitor is designed for a 12-volt DC power input with an average power consumption of 12 watts. The monitor accepts separate video, and vertical drive TTL level inputs.

SPECIFICATIONS

| | |
|-----------------------------|---|
| Cathode Ray Tube: | 12" diagonal, 90° deflection angle, 4 x 5 aspect ratio, P4 phosphor, integral implosion protection. |
| Environment: | Operating Temperature: 41°F to 131°F (5°C to 55°C) ambient Humidity: 95% non-condensing at 41°F to 104°F (5°C to 40°C) Operating Altitude: 10,000 ft. (3046 meters) maximum |
| Power Input: | +12 VDC at 1 amp nominal |
| TTL Level Input Signals: | 4 volts \pm 1.5 volts Horizontal: 4 to 25 μ sec, positive going Vertical: 100 to 1400 μ sec, negative going Video: positive white |
| Video Response: | Bandwidth: 15 MHz, 3 dB Pulse rise time less than 30nsec |
| Scanning Frequency: | Horizontal: 15,600 Hz \pm 500 Hz Vertical: 50/60 Hz |
| Horizontal Retrace: | 10.5 μ sec maximum |
| Vertical Retrace: | 850 μ sec maximum |

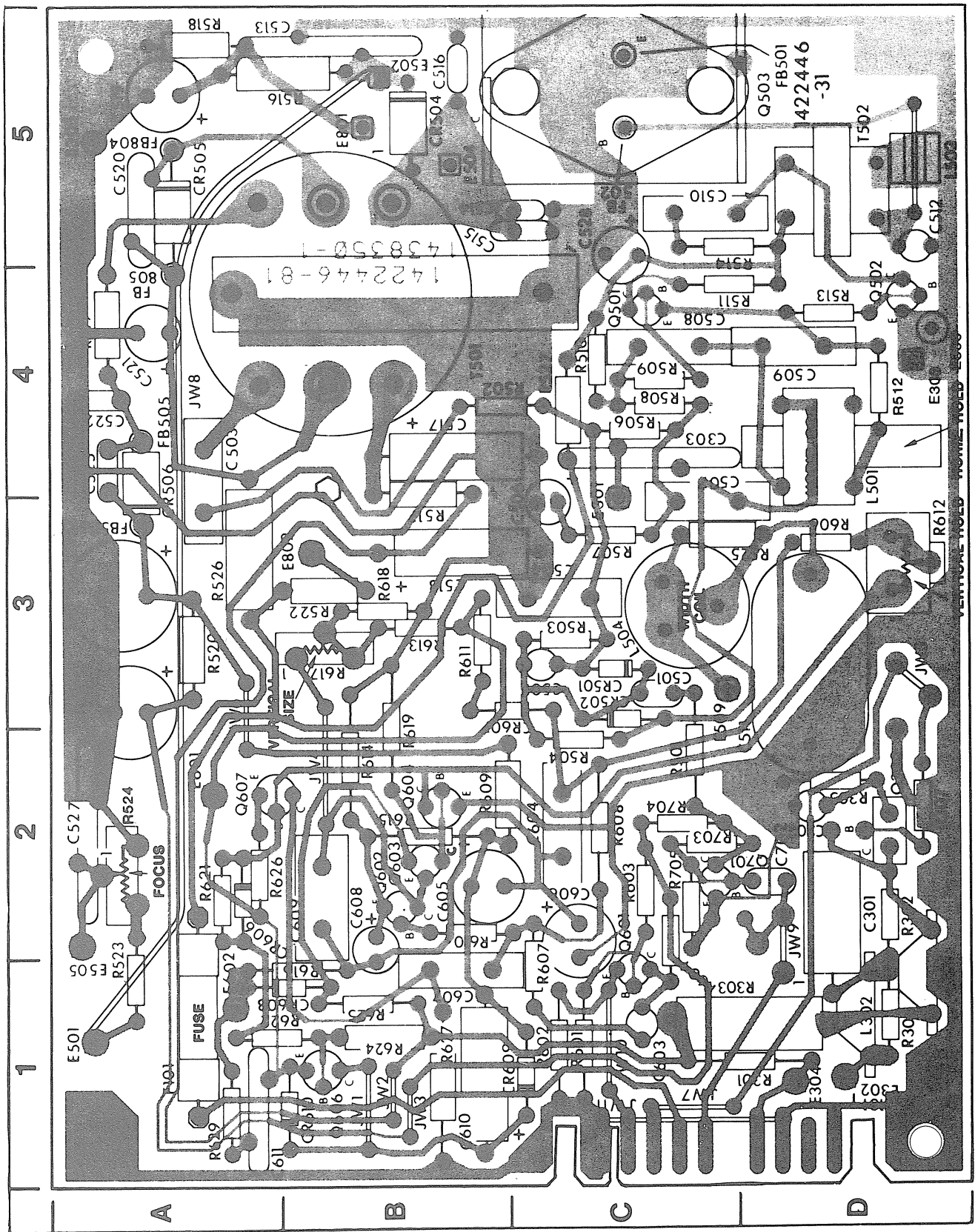


FIGURE 1. VIDEO MONITOR PRINTED CIRCUIT BOARD

SERVICE ADJUSTMENTS

NOTE: Measurements should be made using 12.0 VDC input. Measurements with kine (CRT) attached will require the ground strap from kine be connected to chassis to prevent transistor failures in the event of kine arcing.

FOCUS

Adjust focus control F524 (Figure 1, Zone 2-A) for best overall focus.

VERTICAL SIZE

Adjust vertical size control R617 (Figure 1, Zone 3-B) to produce vertical scan of approximately 6 inches.

HORIZONTAL LINEARITY

Loosen deflection yoke clamp and slide linearity sleeve forward or backward to equalize character spacing on left side of to match character spacing on right side of screen (See Figure 2 for location of linearity sleeve).

WIDTH

Note: Check horizontal linearity prior to width adjustment. Adjust width control to produce horizontal scan of approximately 8 inches.

CENTERING

Adjust centering rings on deflection yoke assembly to center display on screen top to bottom and left to right.

HORIZONTAL HOLD

Horizontal Hold is accomplished by adjustment of the horizontal oscillator coil (Figure 1, Zone 4-D).

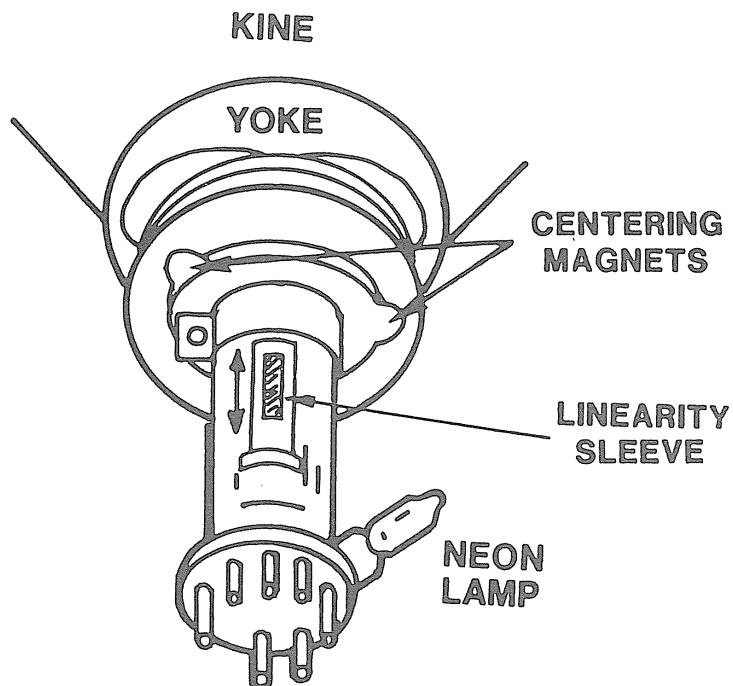


FIGURE 2. DEFLECTION YOKE ASSEMBLY

