

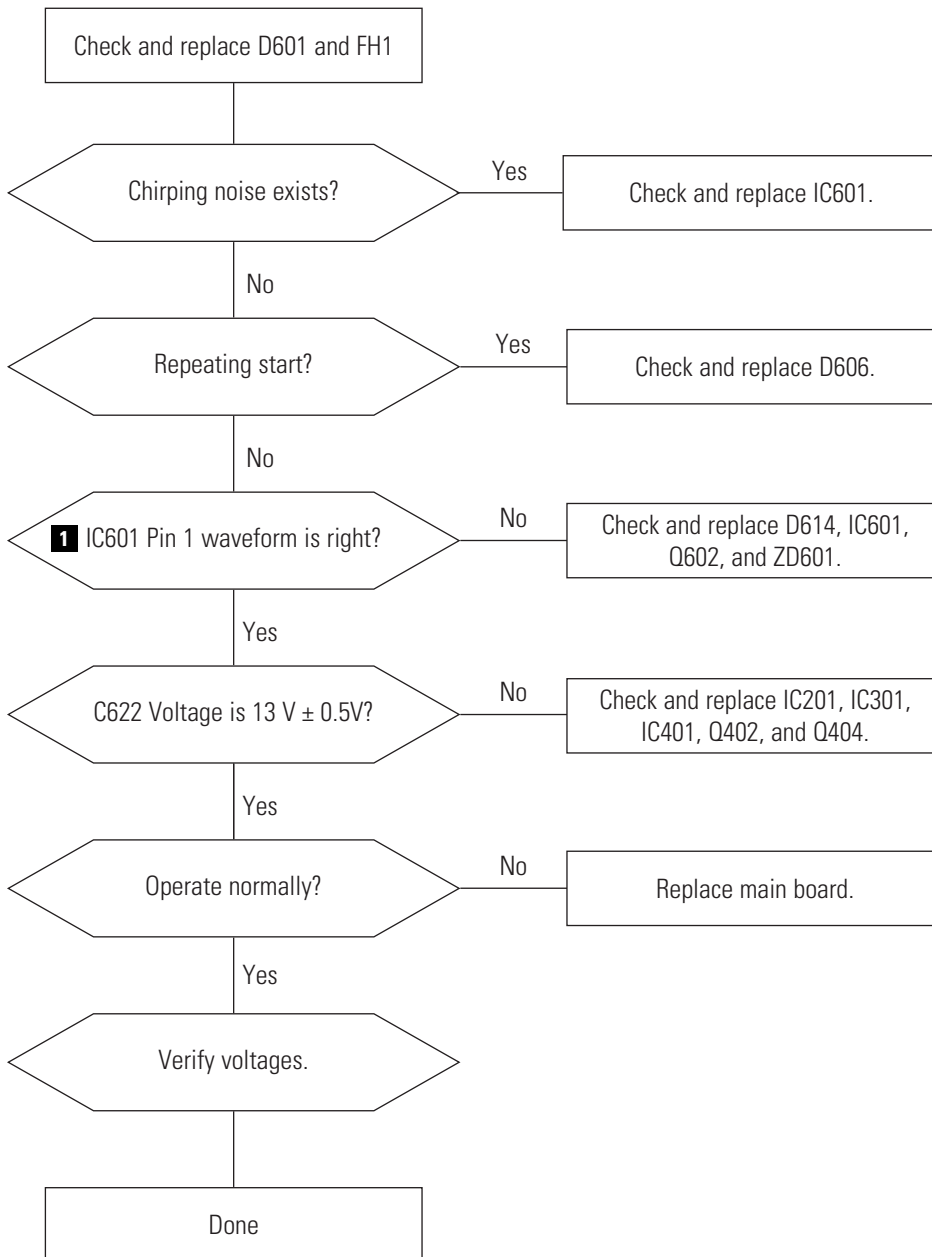
5 Troubleshooting

5-1 Parts Level Troubleshooting

Notes: Check the following circuits.

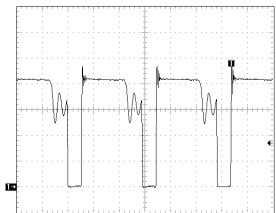
- No raster appears: Power circuit, Horizontal output circuit.
- High voltage develops but no raster appears: Video output circuits.
- High voltage does not develop: Horizontal output circuits.

5-1-1 No Power Supply

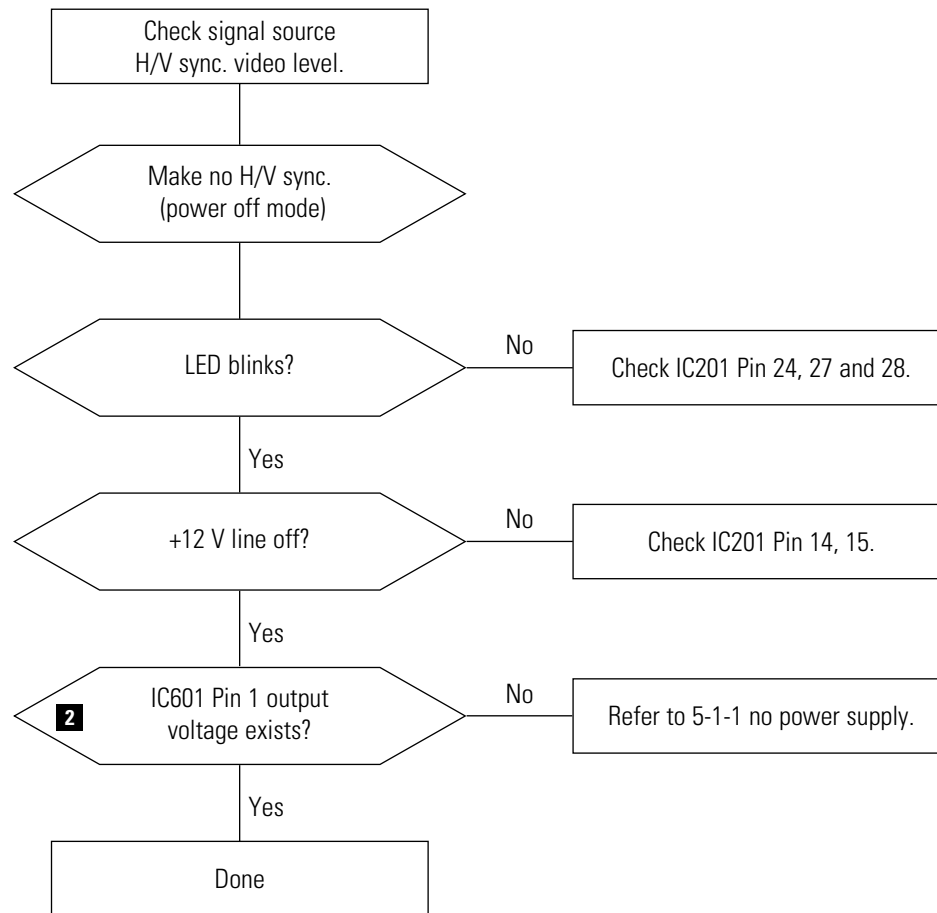
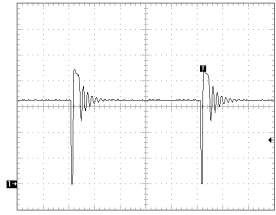


WAVEFORMS

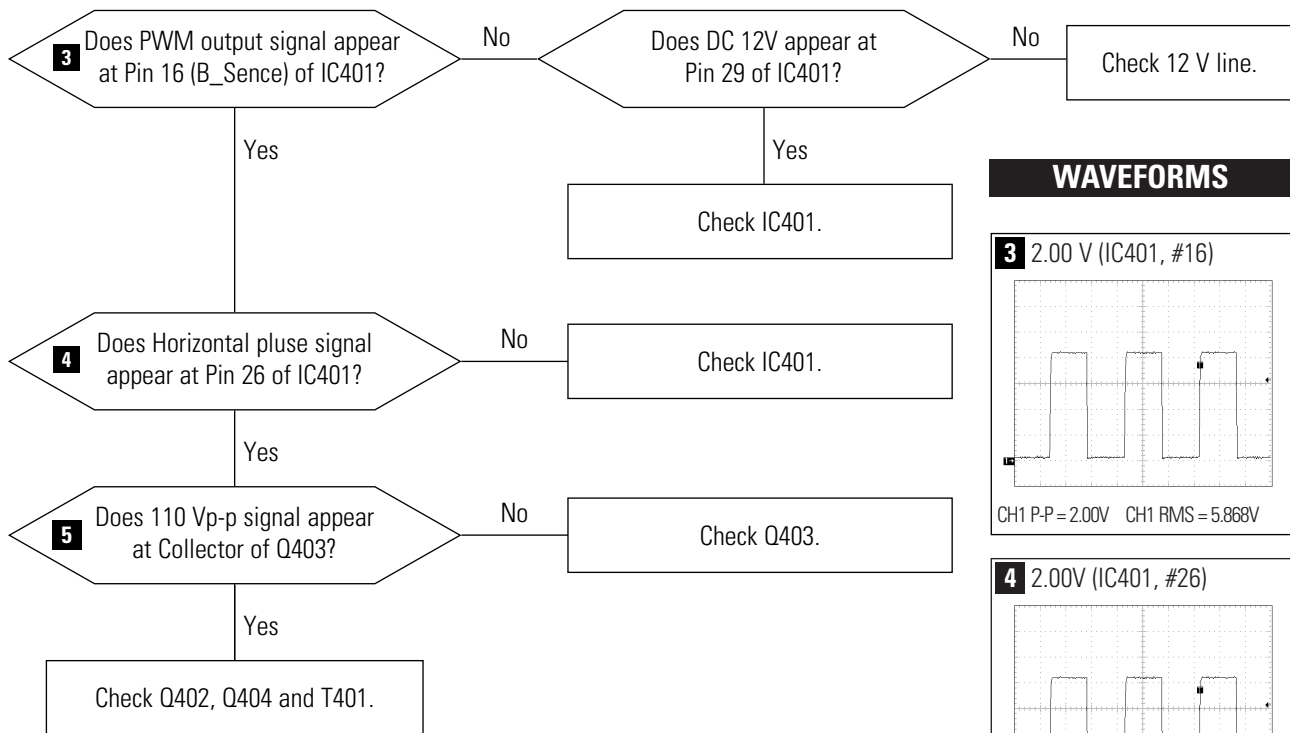
1 100 V (IC601, #1)



CH1 P-P = 100 V CH1 RMS = 350.2 V

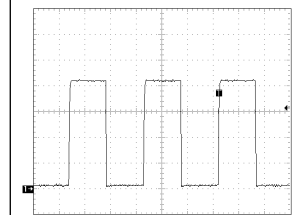
5-1-2 DPMS Failure**WAVEFORMS****2** 100 V (IC601, #1)

5-1-3 H_Deflection Failure

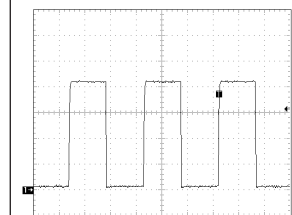


WAVEFORMS

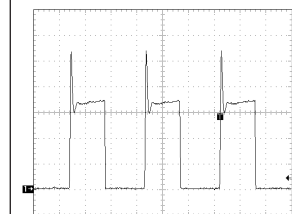
3 2.00 V (IC401, #16)



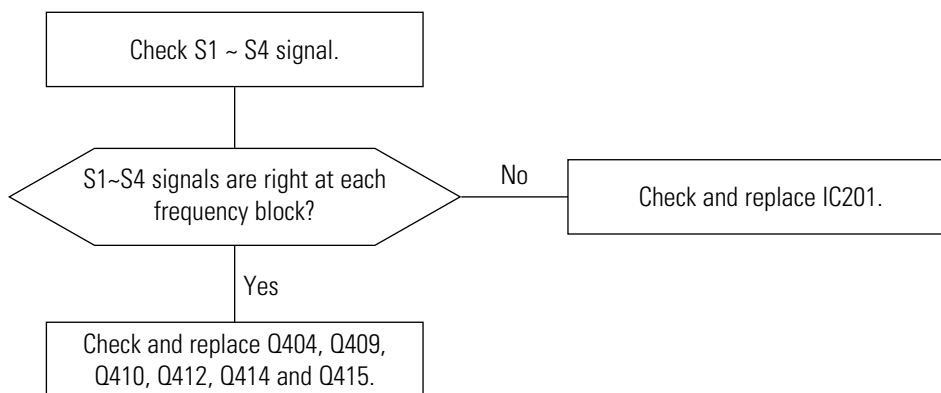
4 2.00V (IC401, #26)

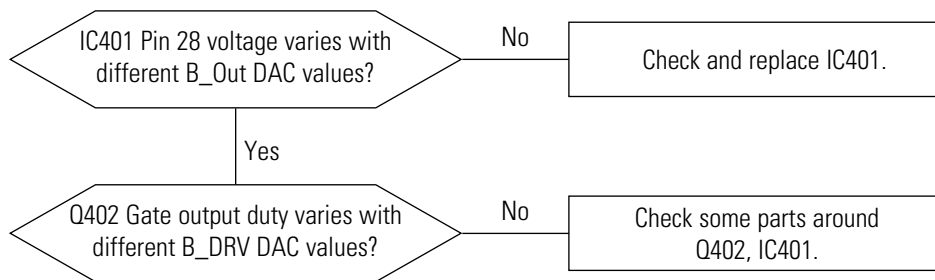
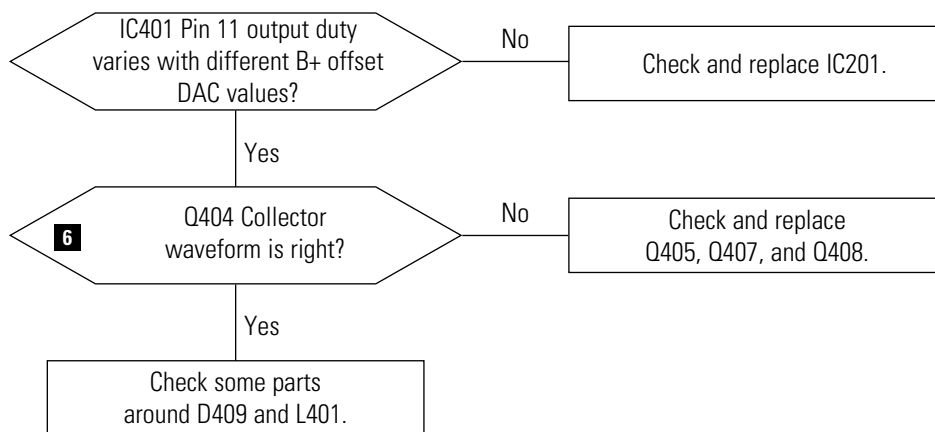
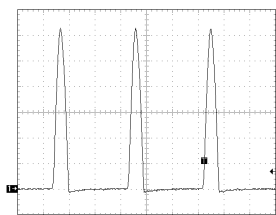


5 20.0 V (Q403, Collector)



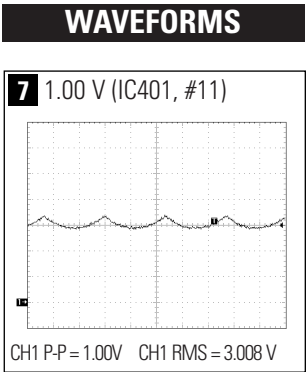
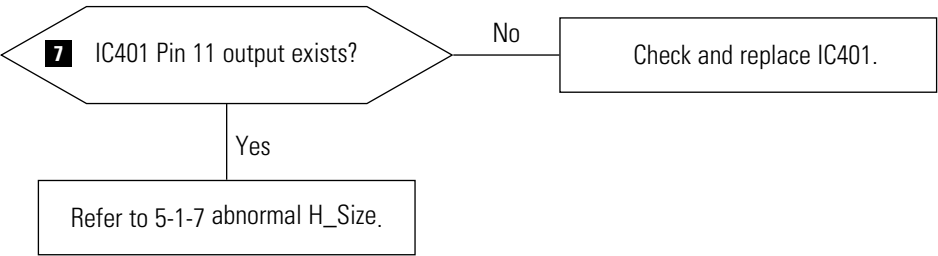
5-1-4 S Correction Failure



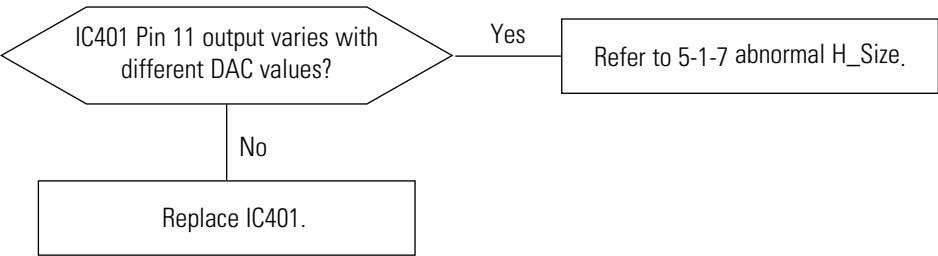
5-1-5 Invariable H_Size**5-1-6 Abnormal H_Size****WAVEFORMS****6** 200 V (Q404, Collector)

CH1 P-P = 200V CH1 RMS = 387.2V

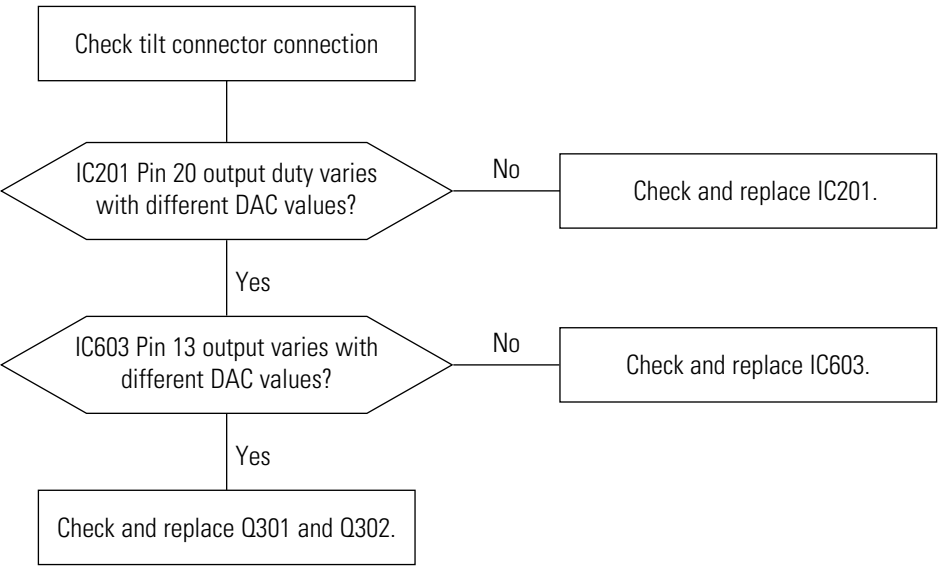
5-1-7 Side Pin or Trap Failure

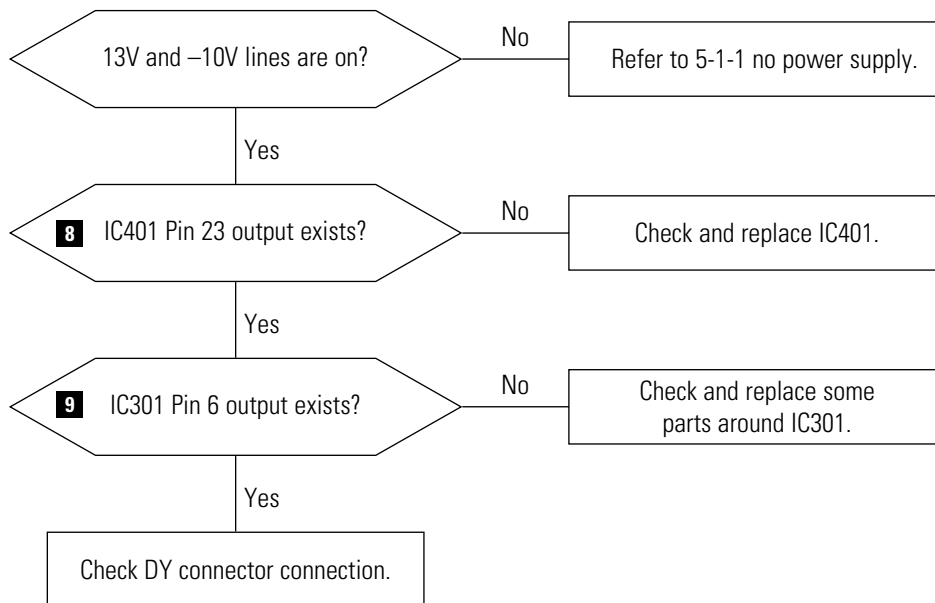
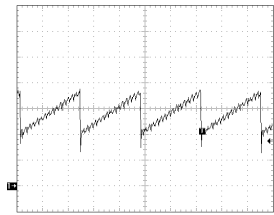
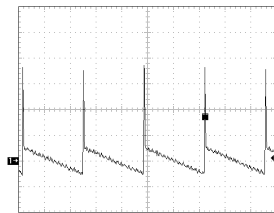
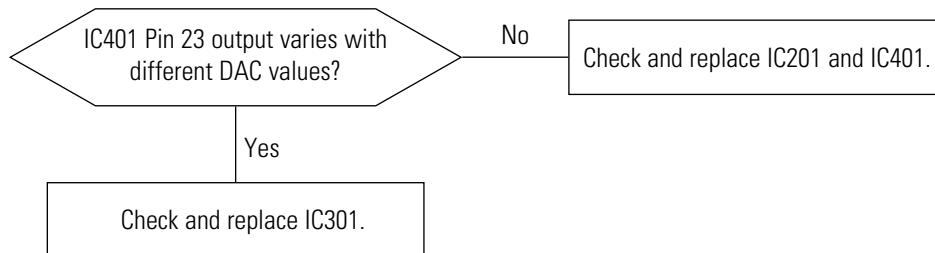


5-1-8 Para. or Pin Balance Failure

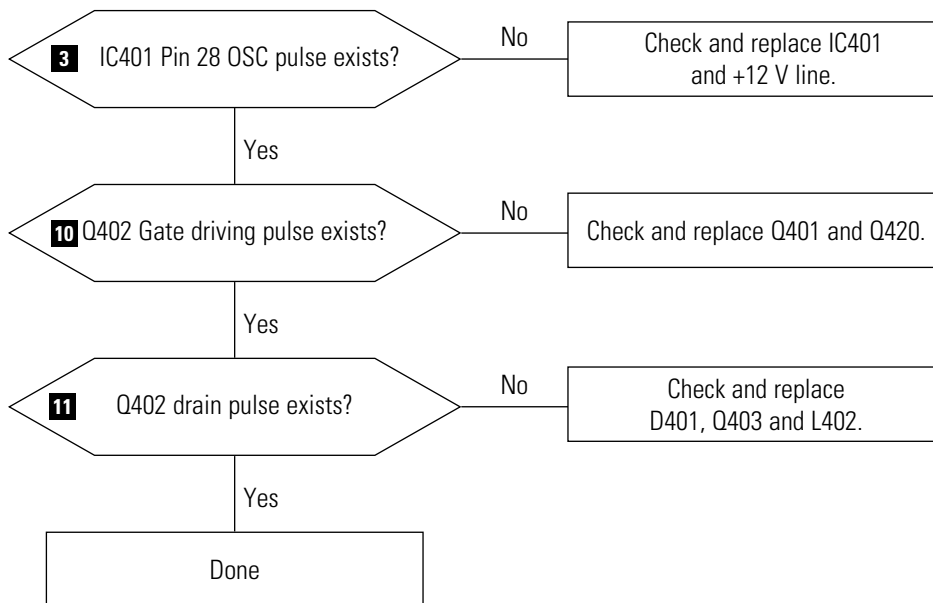


5-1-9 Tilt Failure



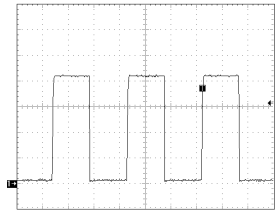
5-1-10 V Deflection Failure**WAVEFORMS****8** 500 V (IC401, #23)**9** 10.0 V (IC301, #6)**5-1-11 V Size or Position Variation Failure**

5-1-12 High Voltage Failure

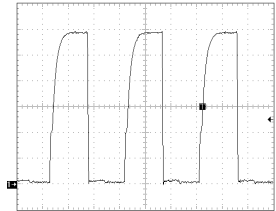


WAVEFORMS

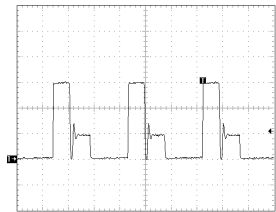
3 2.00 V (IC401, #28)



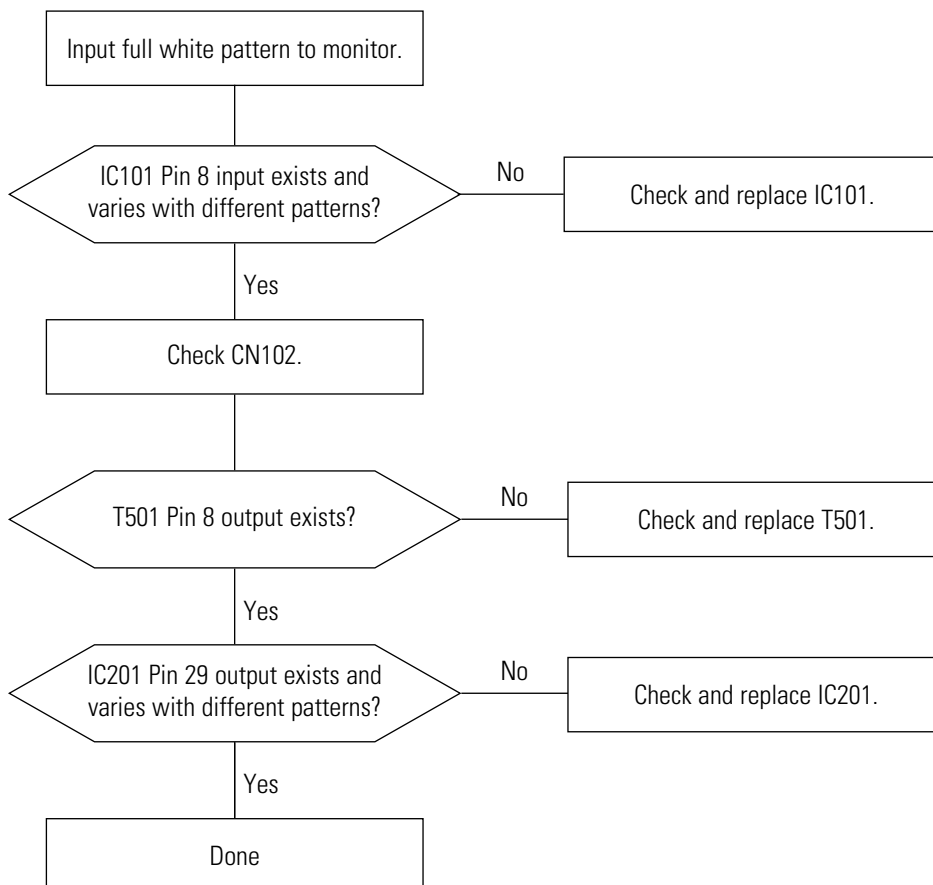
10 2.00 V (Q402, Gate)

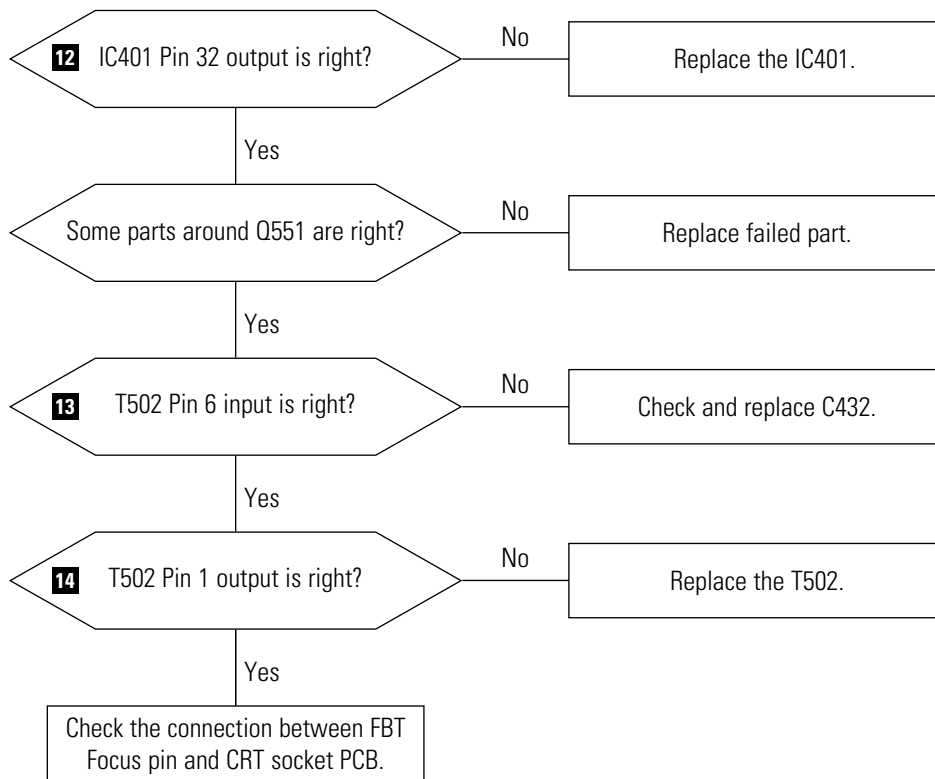
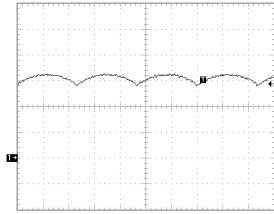


11 50.0 V (Q402, Drain)

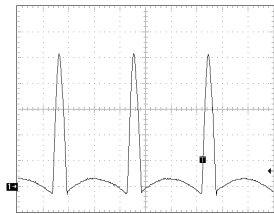


5-1-13 ABL Failure

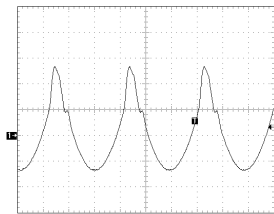


5-1-14 Dynamic Focus Failure**WAVEFORMS****12** 2.00 V (IC401, #32)

CH1 P-P = 2.00V CH1 RMS = 6.124V

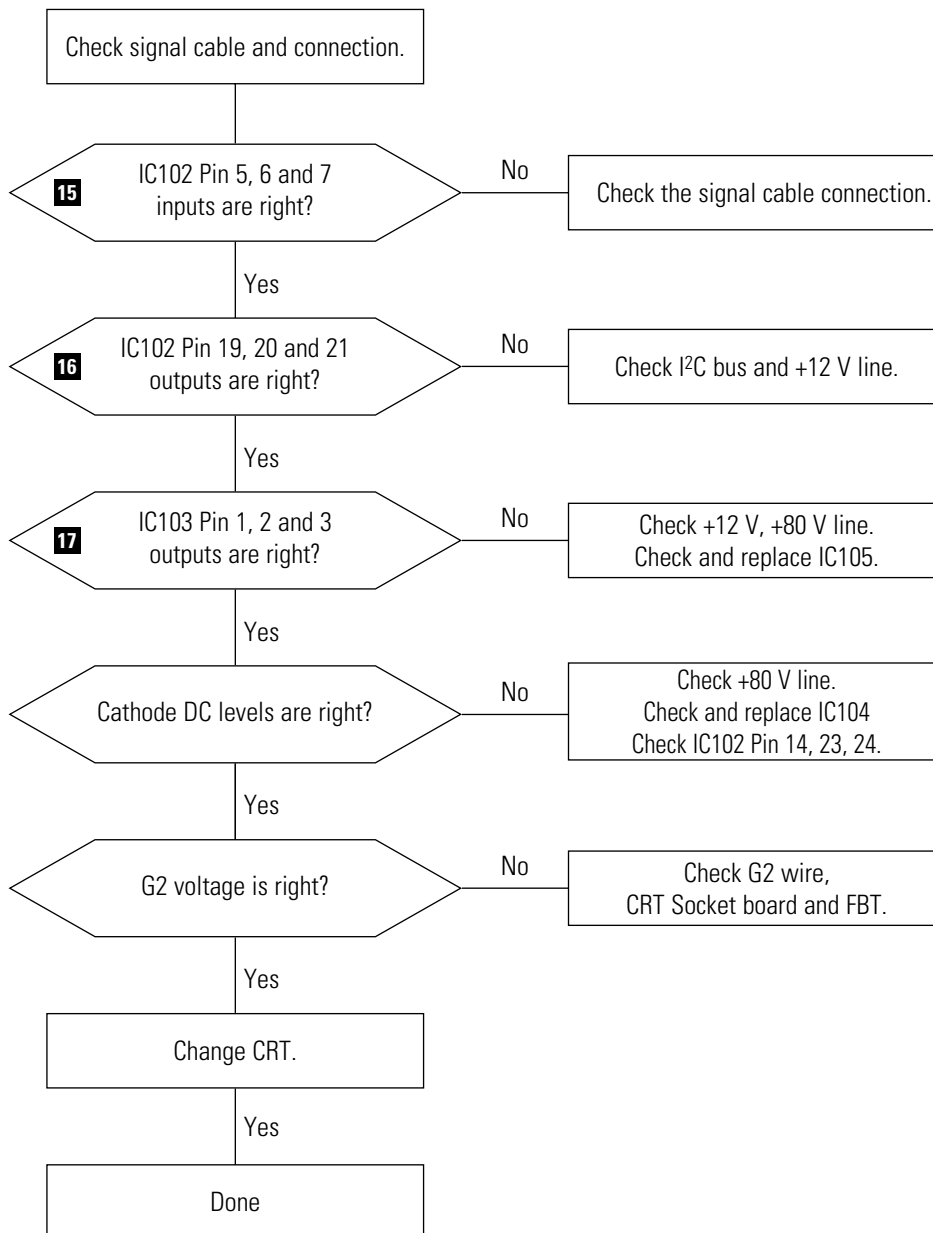
13 50.0 V (T502, #6)

CH1 P-P = 50.0V CH1 RMS = 75.6V

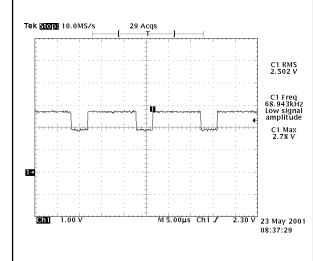
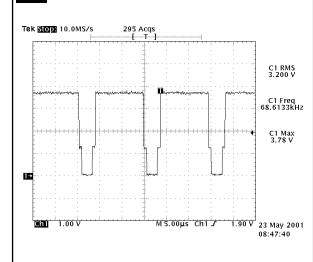
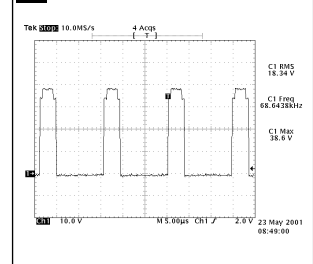
14 100 V (T502, #1)

CH1 P-P = 100V CH1 RMS = 124.0V

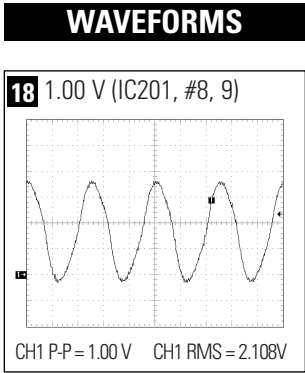
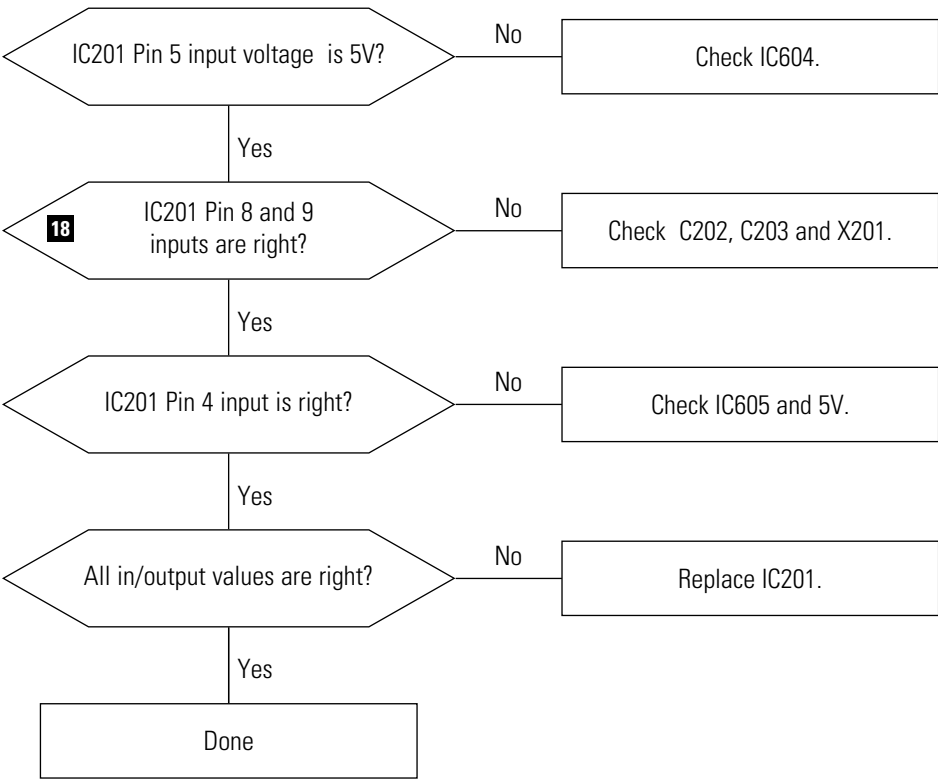
5-1-15 No Video



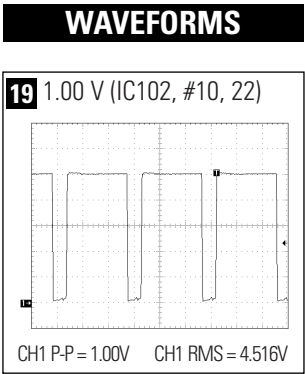
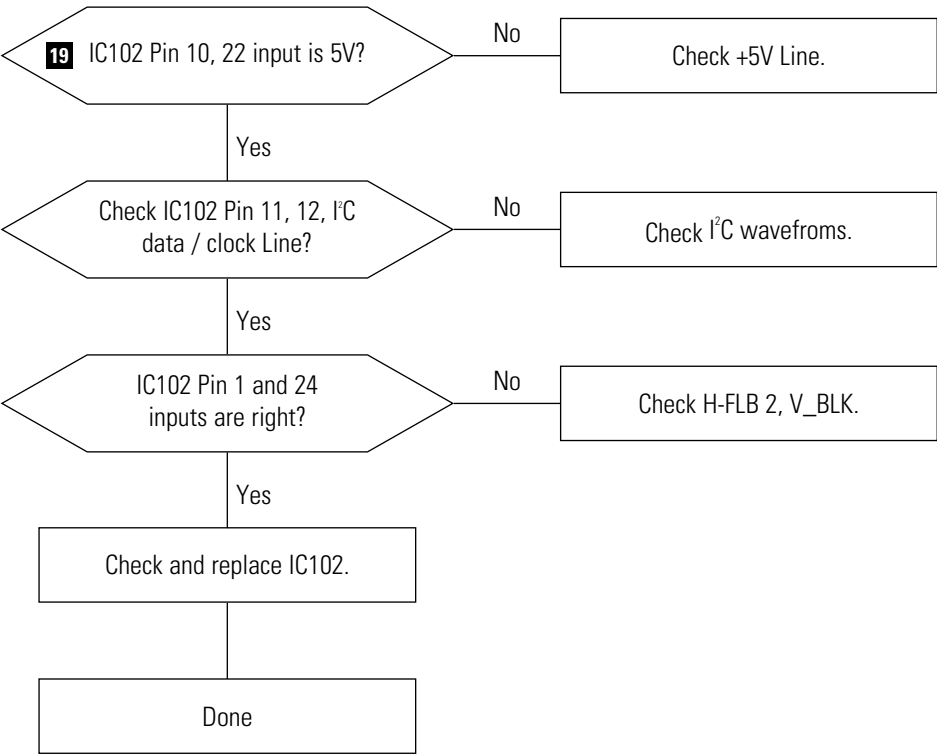
WAVEFORMS

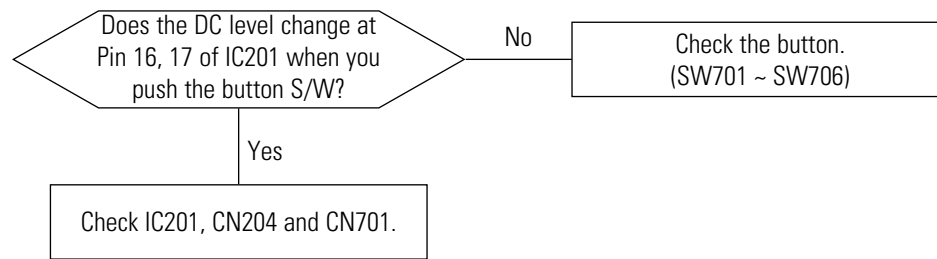
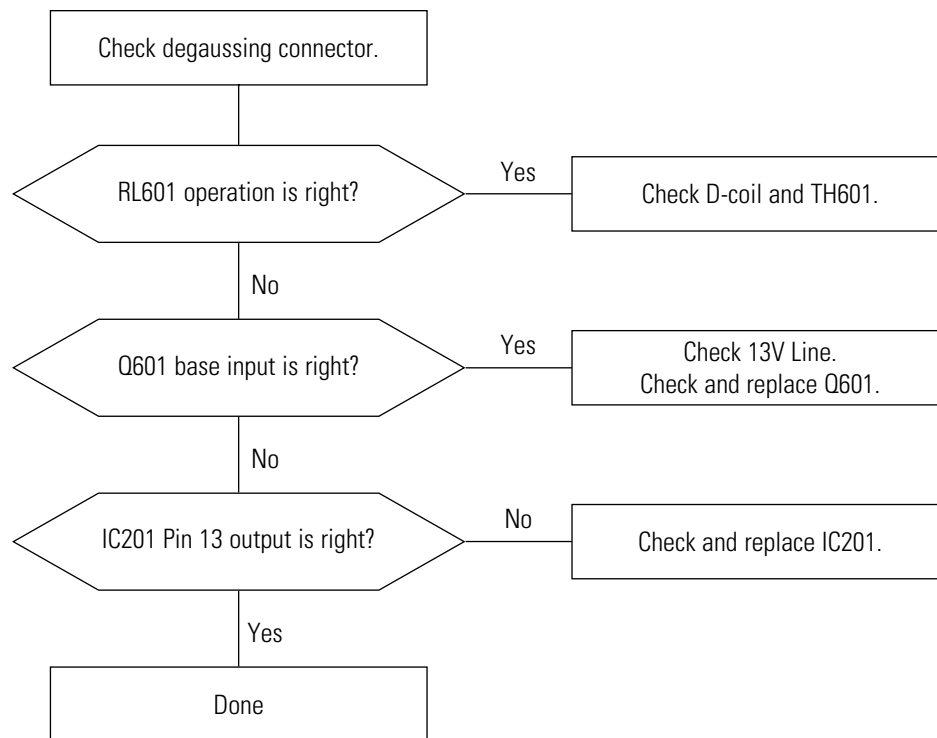
15 1.00 V (IC102, #5, 6, 7)**16** 1.00 V (IC102, #19,20,21)**17** 20.0 V (IC103, #1, 2, 3)

5-1-16 MICOM Failure



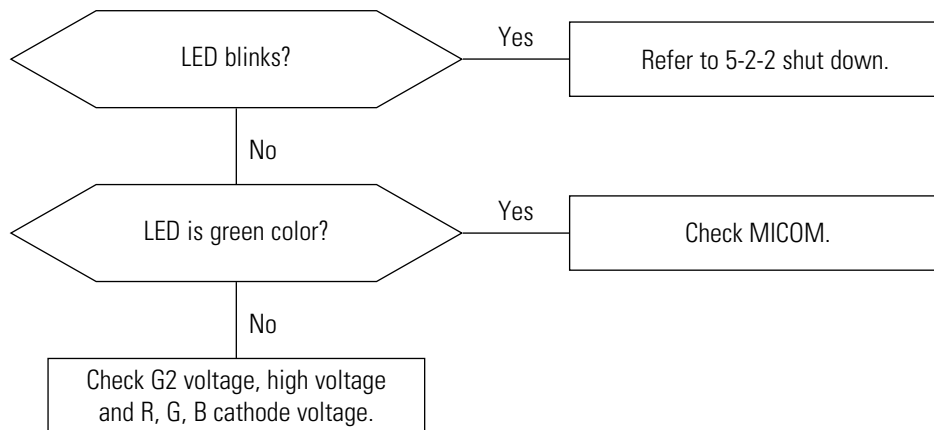
5-1-17 OSD Failure



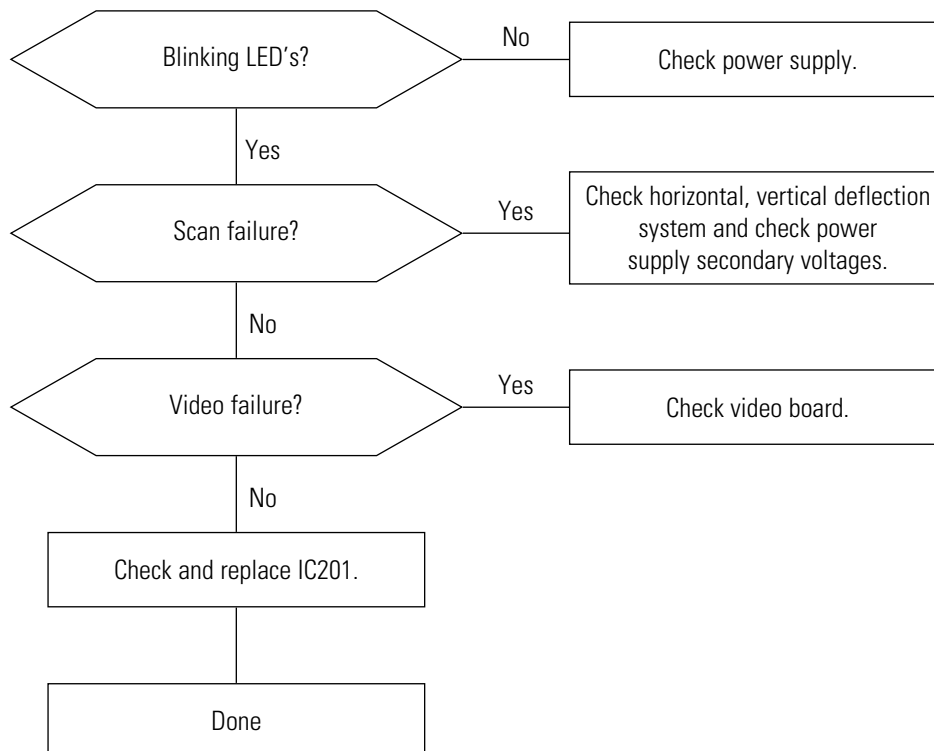
5-1-18 User Control Failure**5-1-19 Degaussing Failure**

5-2 General Troubleshooting

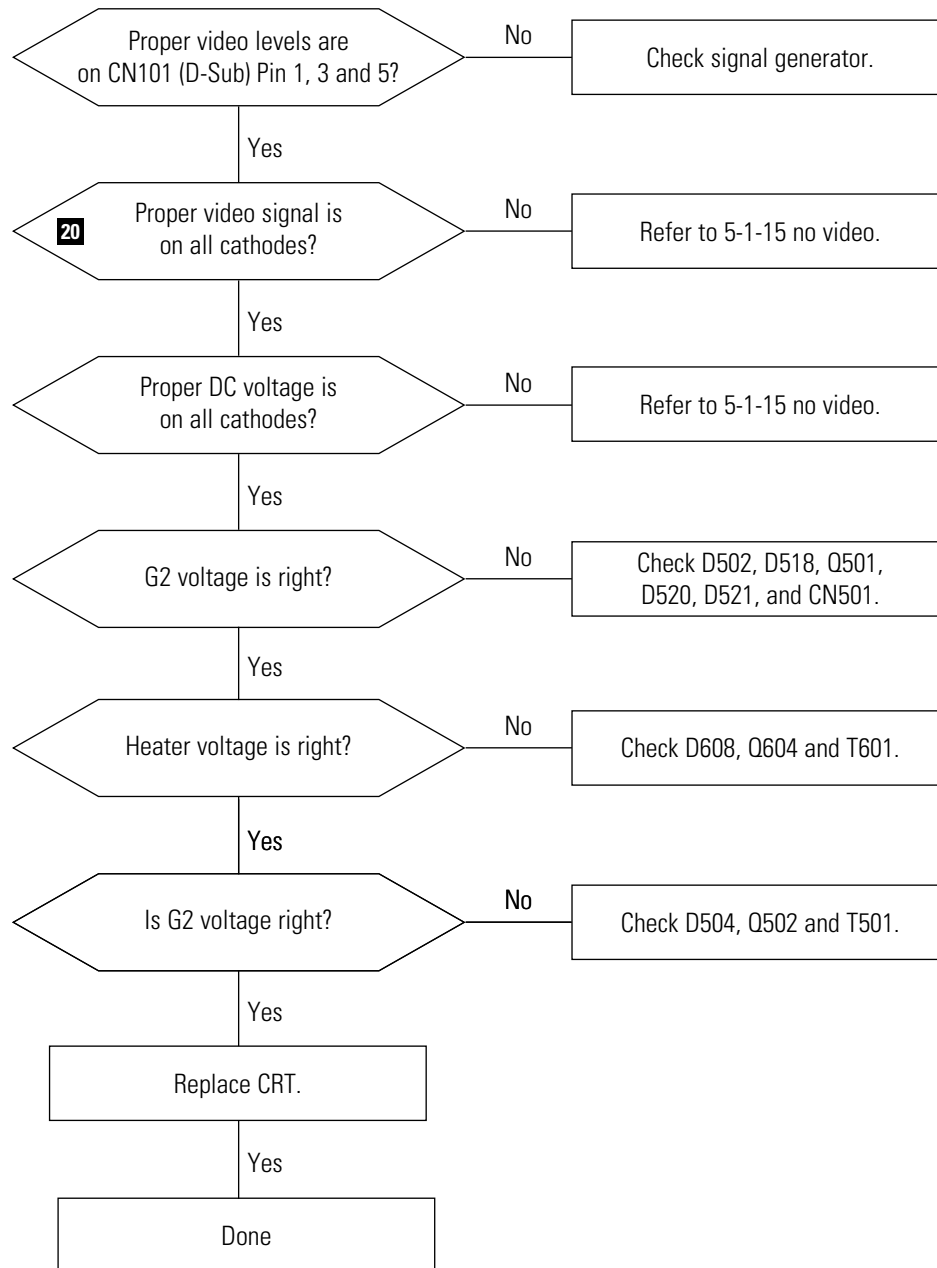
5-2-1 No Picture



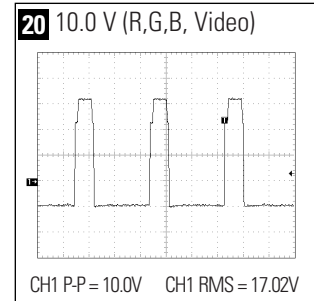
5-2-2 Shut Down



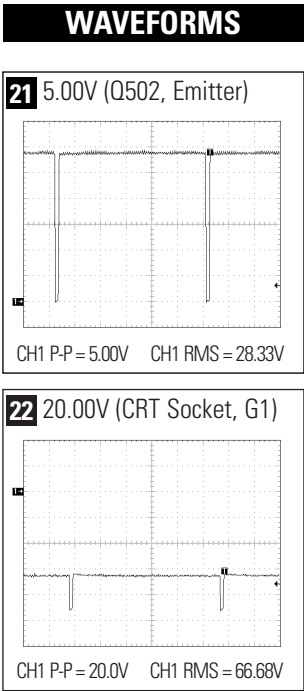
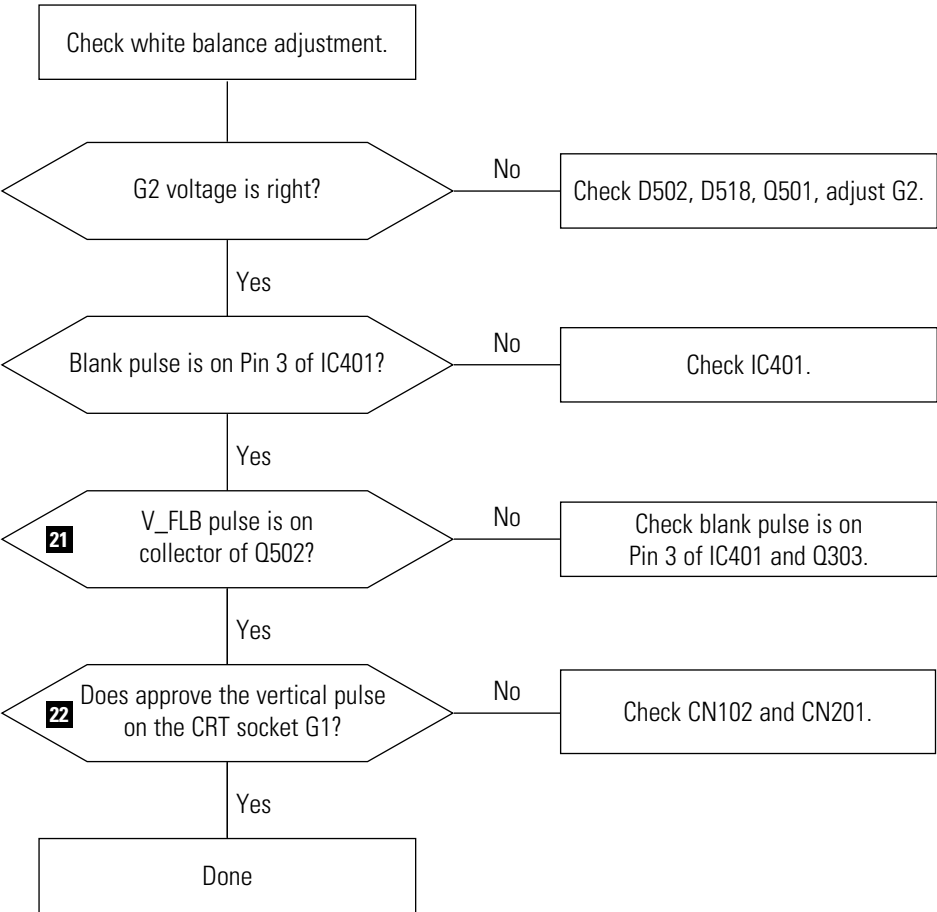
5-2-3 Missing Color

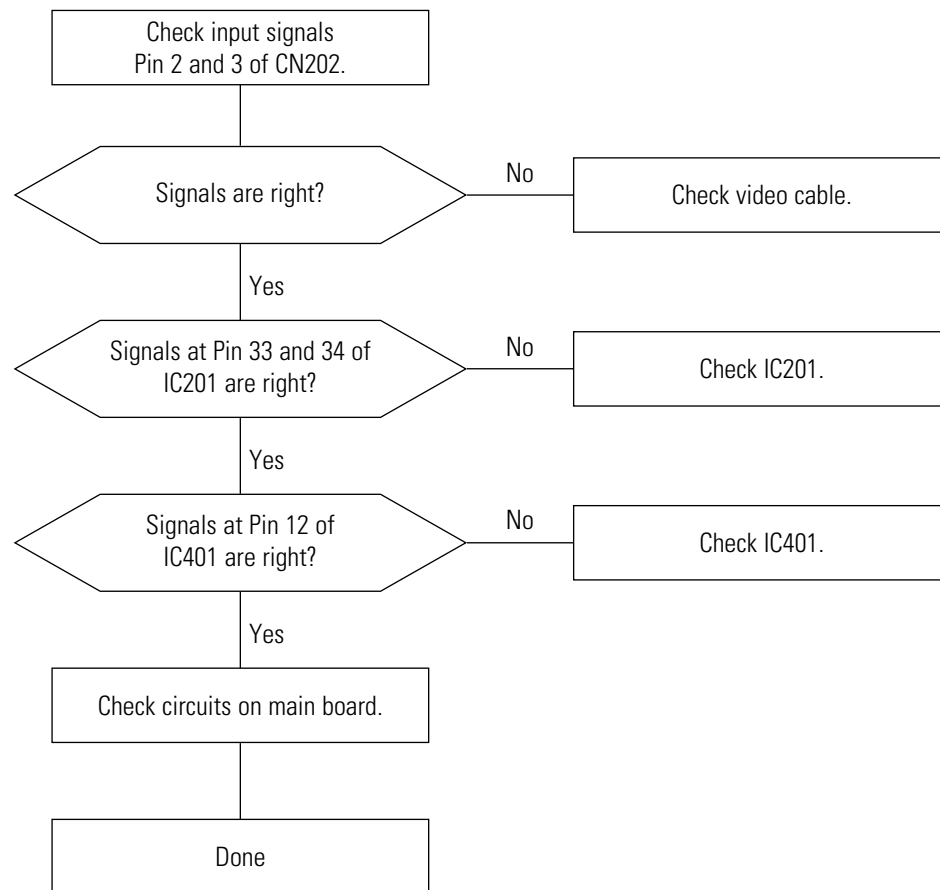


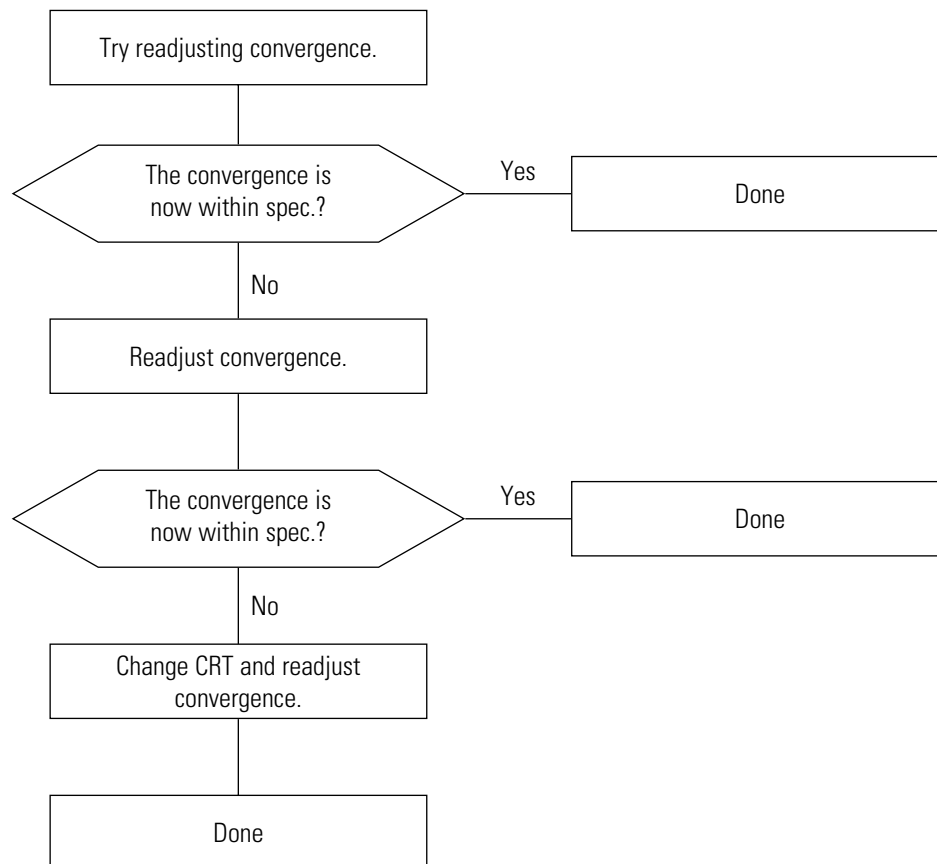
WAVEFORMS

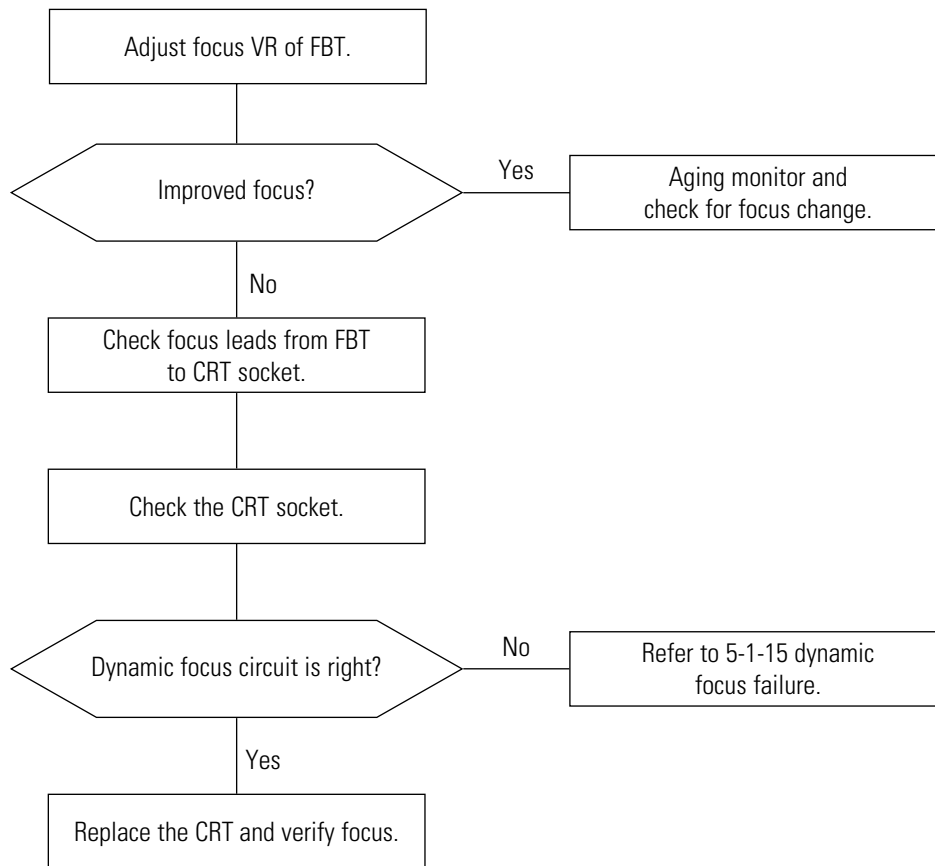


5-2-4 Visible Retrace



5-2-5 Unsynchronized Image

5-2-6 Misconvergence

5-2-7 Poor Focus**5-2-8 Purity Failure**