

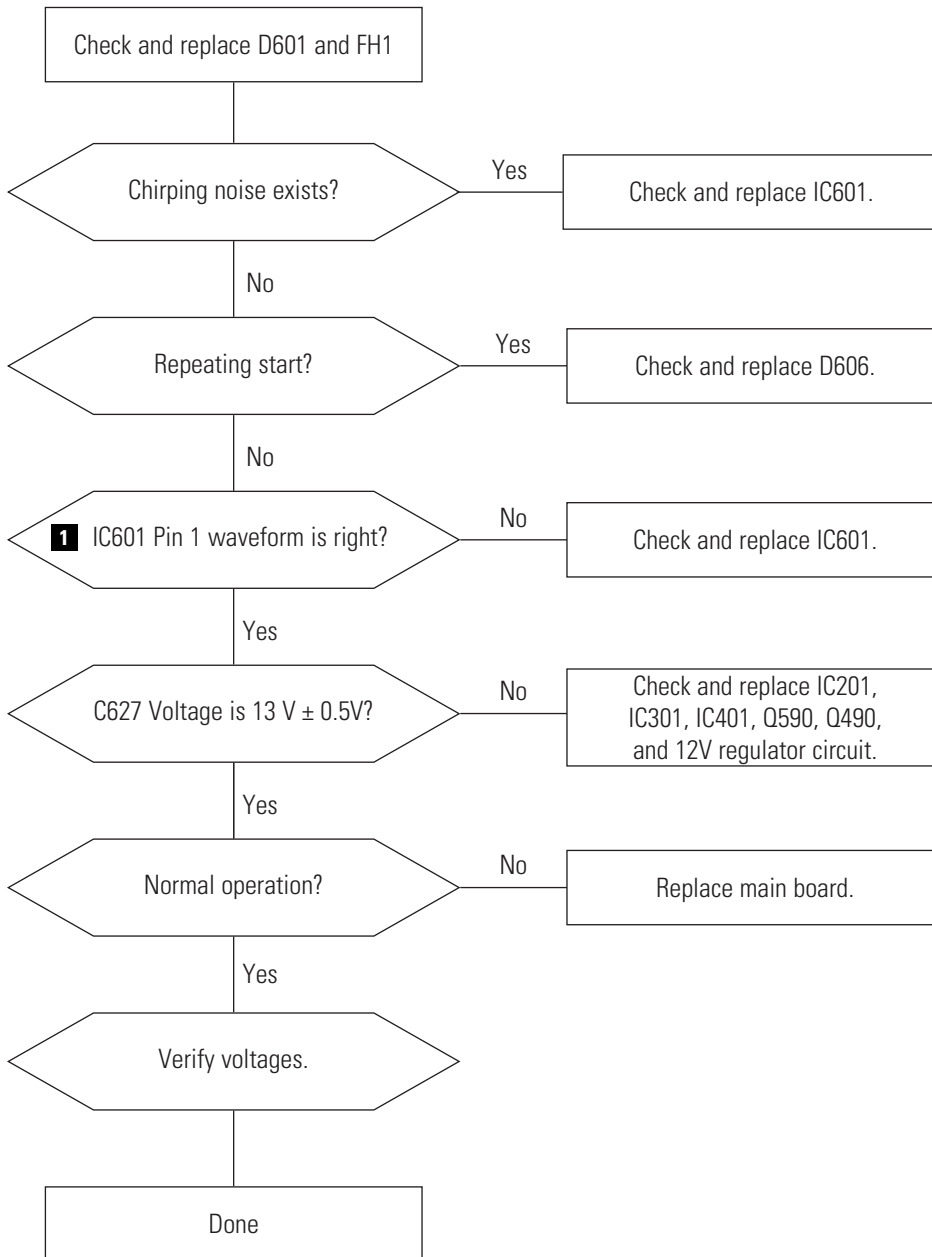
5 Troubleshooting

5-1 Parts Level Troubleshooting

Notes: Check the following circuits.

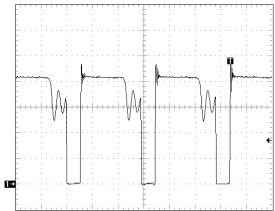
- No raster appears: Power circuit, Horizontal output circuit.
- High voltage develops but no raster appears: Video output circuits.
- High voltage does not develop: Horizontal output circuits.

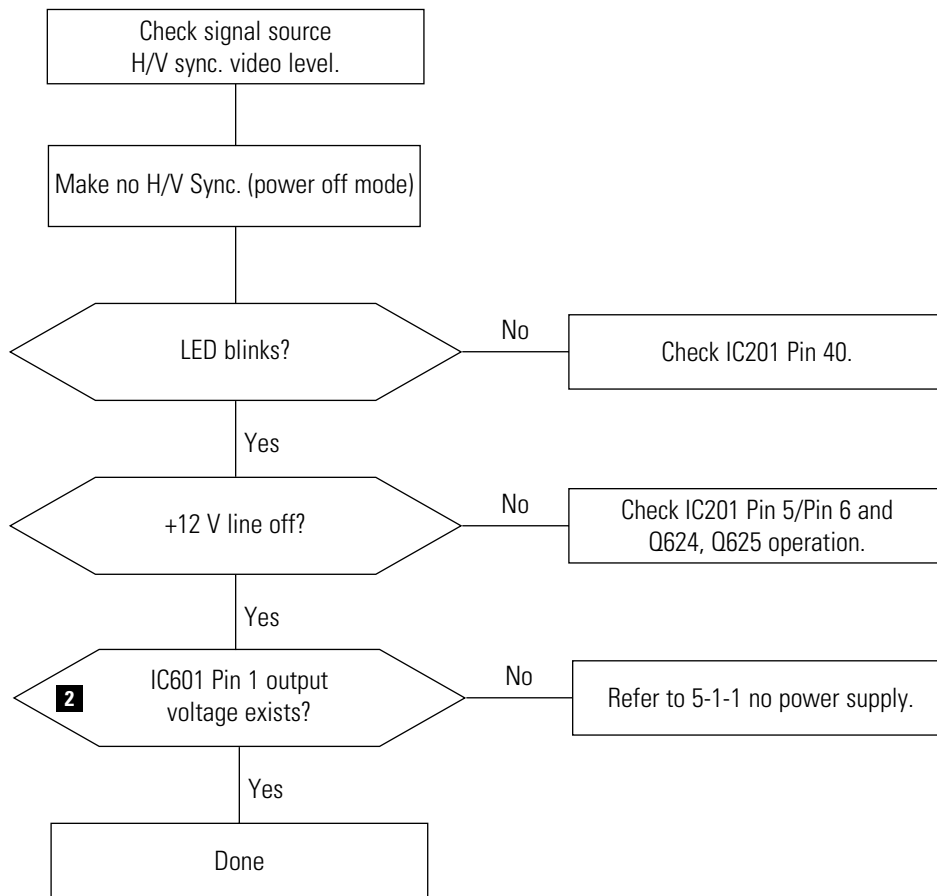
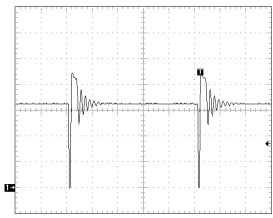
5-1-1 No Power Supply



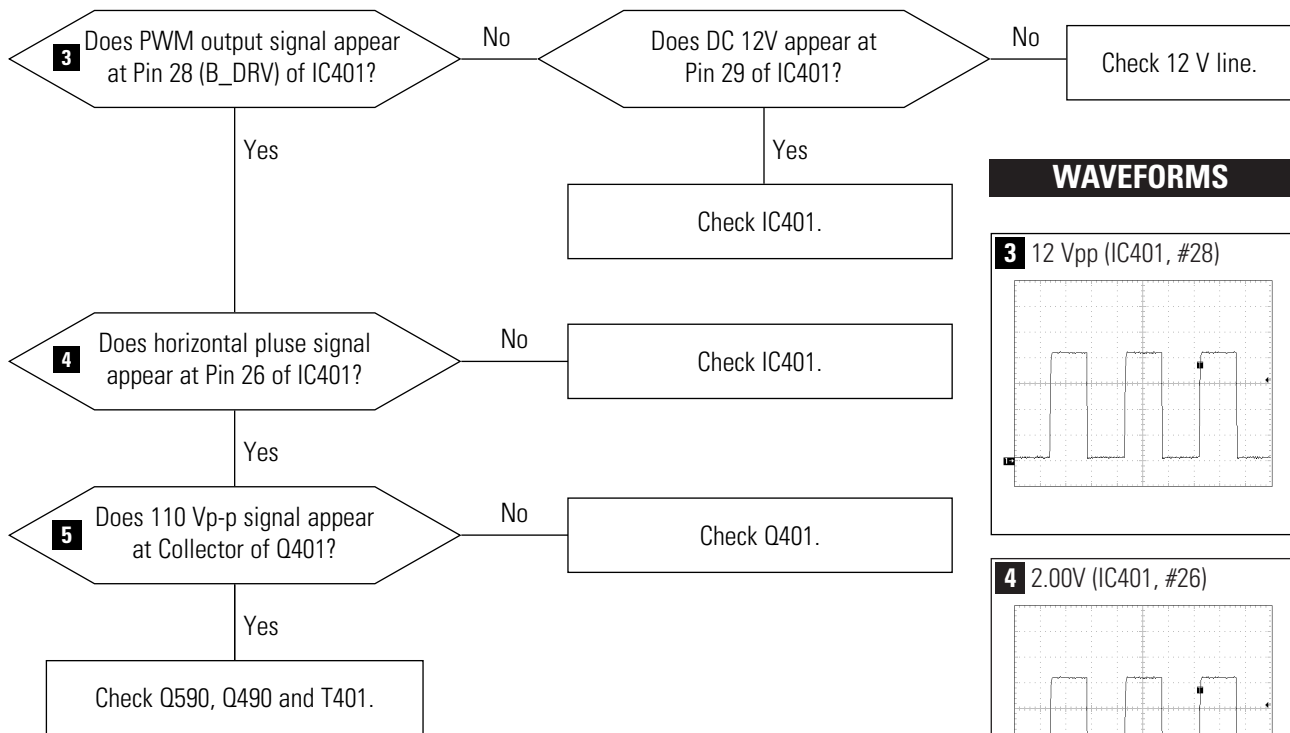
WAVEFORMS

1 332 Vpp (IC601, #1)



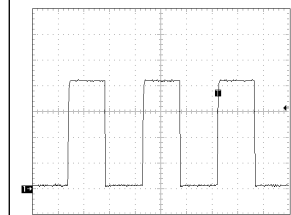
5-1-2 DPMS Failure**WAVEFORMS****2** 332Vpp (IC601, #1)

5-1-3 H_Deflection Failure

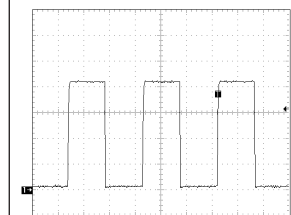


WAVEFORMS

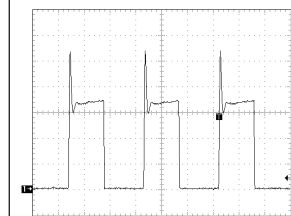
3 12 Vpp (IC401, #28)



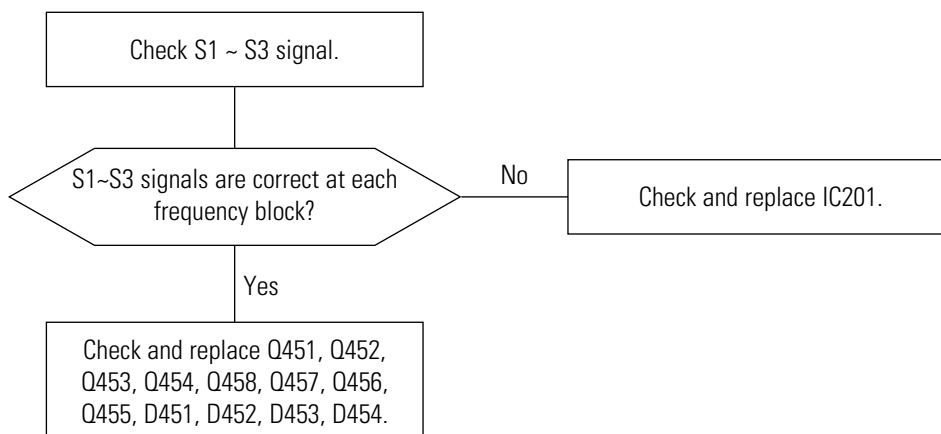
4 2.00V (IC401, #26)

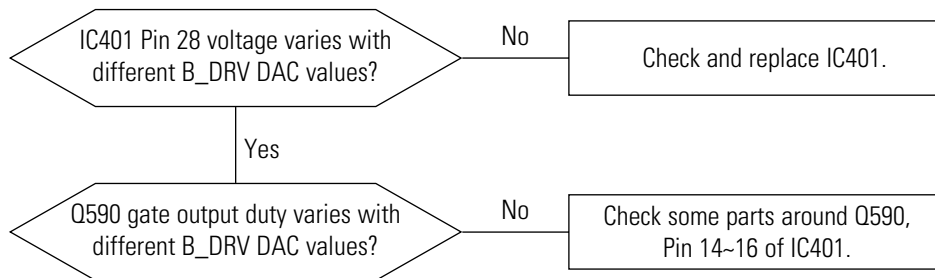
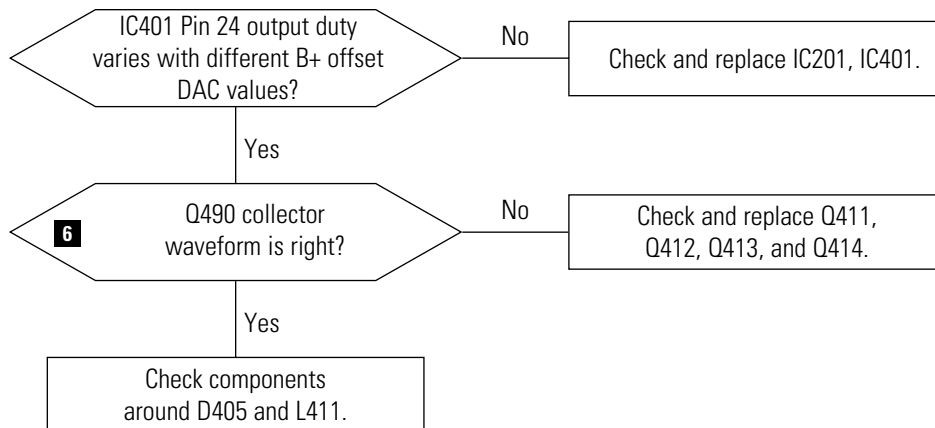
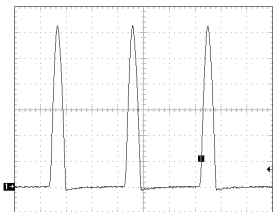


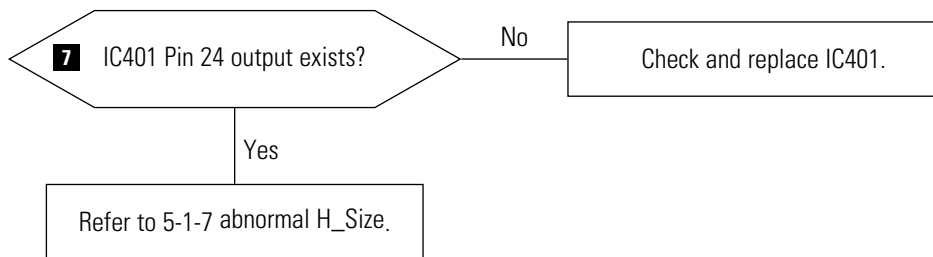
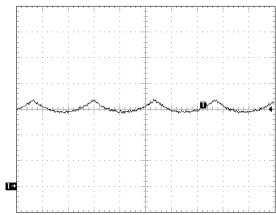
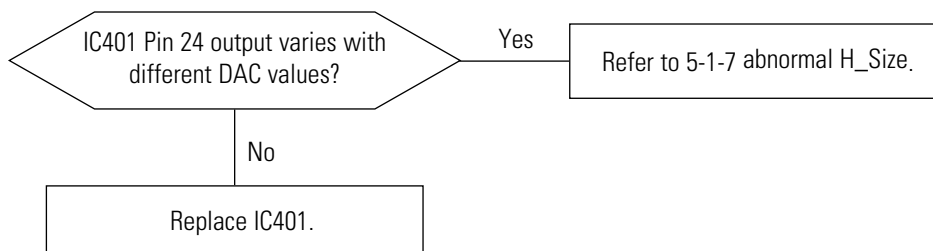
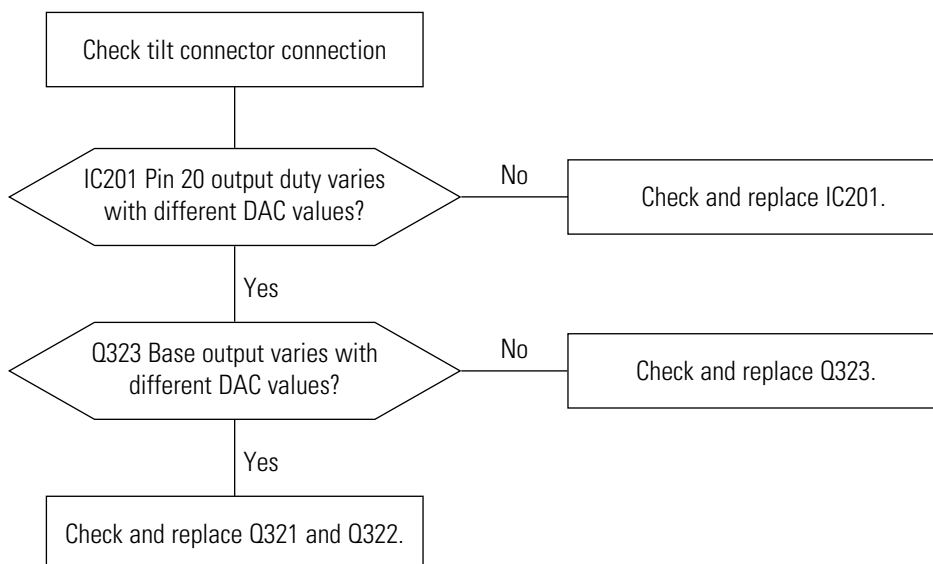
5 78 Vpp (Q401, Collector)

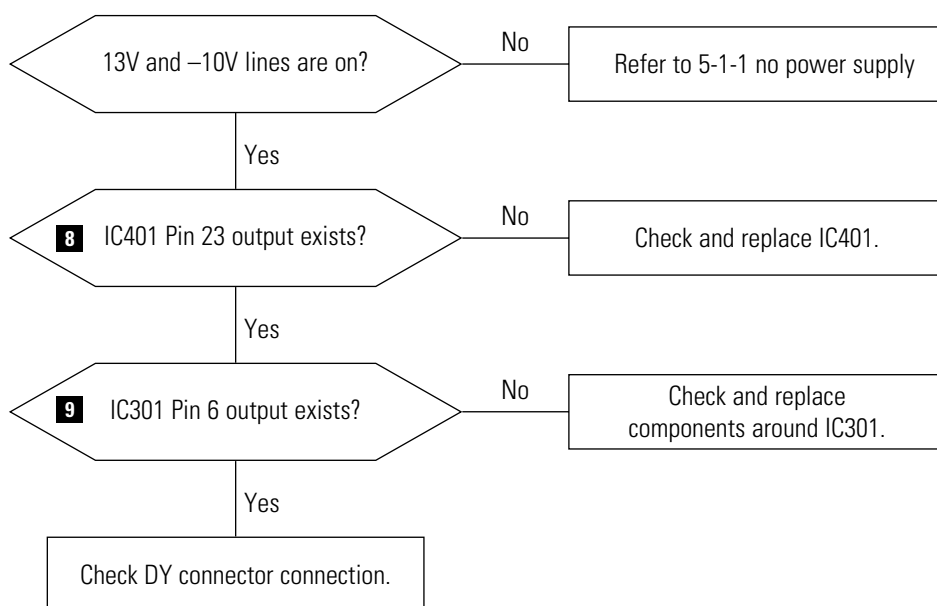
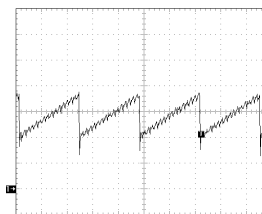
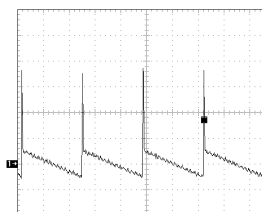
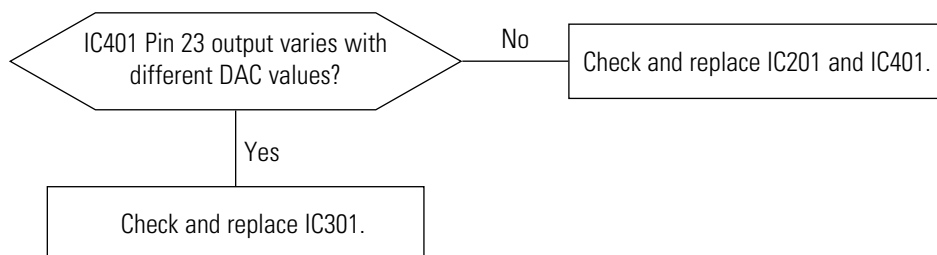


5-1-4 S Correction Failure

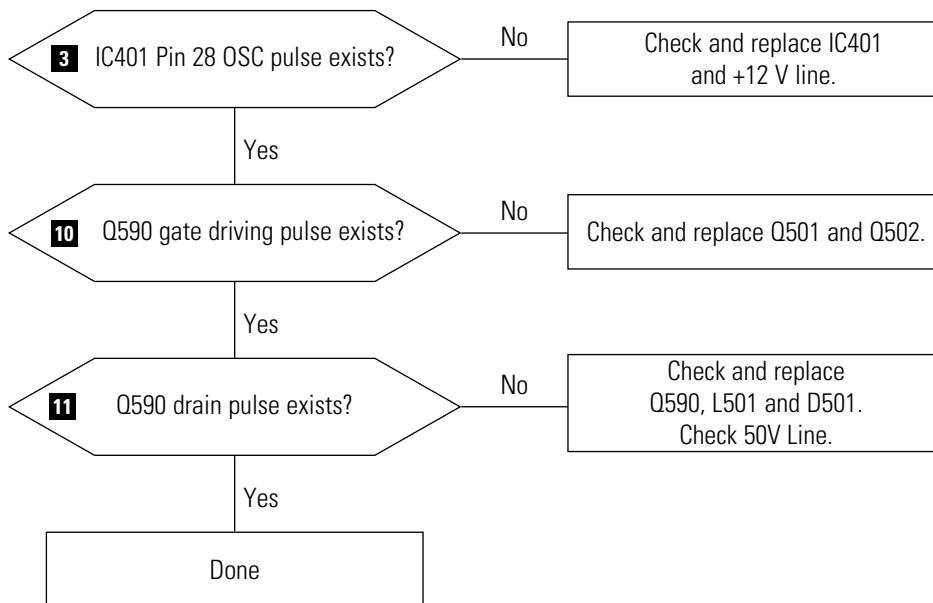


5-1-5 H_Lin. Failure → Check and Replace L441 (Fix Type)**5-1-6 Invariable H_Size****5-1-7 Abnormal H_Size****WAVEFORMS****6** 1300 Vpp (Q490, Collector)

5-1-8 Side Pin or Trap Failure**WAVEFORMS****7** 0.44 Vpp (IC401, #24)**5-1-9 Para. or Pin Balance Failure****5-1-10 Tilt Failure (Only 17" Function)**

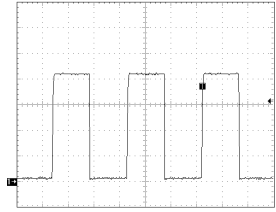
5-1-11 V Deflection Failure**WAVEFORMS****8** 2.5 Vpp (IC401, #23)**9** 50 Vpp (IC301, #6)**5-1-12 V Size or Position Variation Failure**

5-1-13 High Voltage Failure

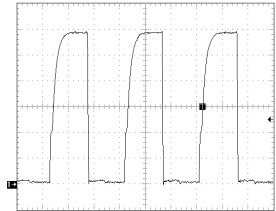


WAVEFORMS

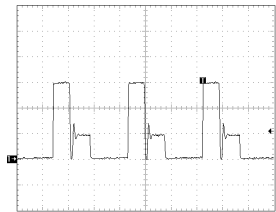
3 12 Vpp (IC401, #28)



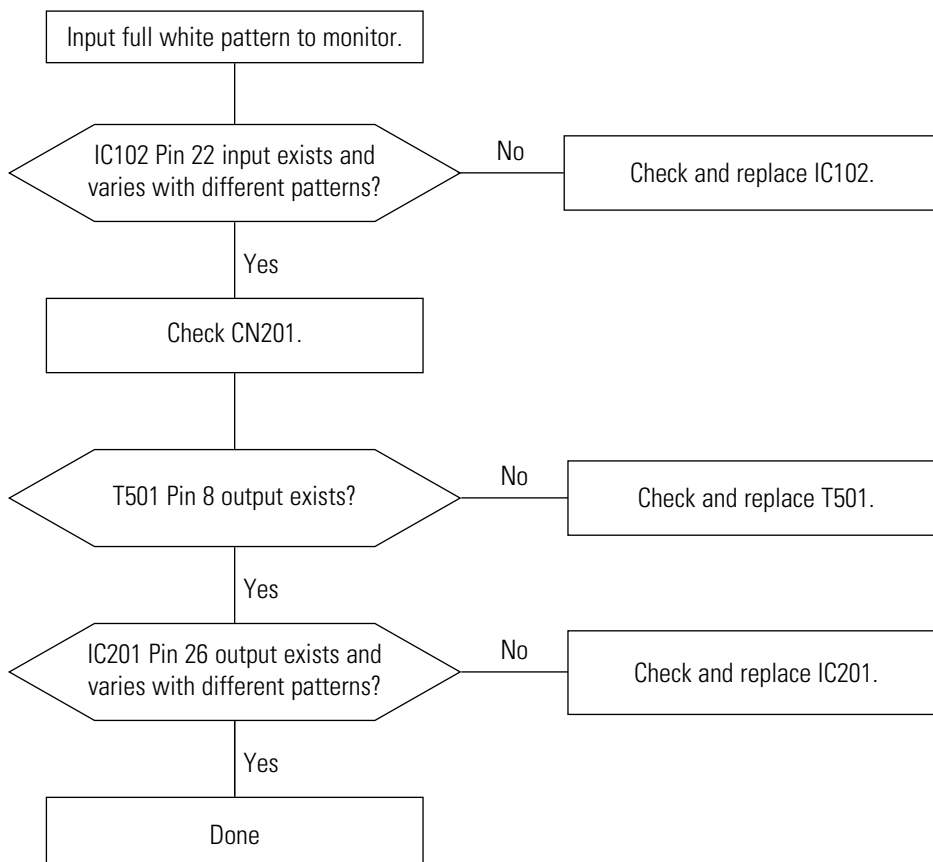
10 12 Vpp (Q590, Gate)

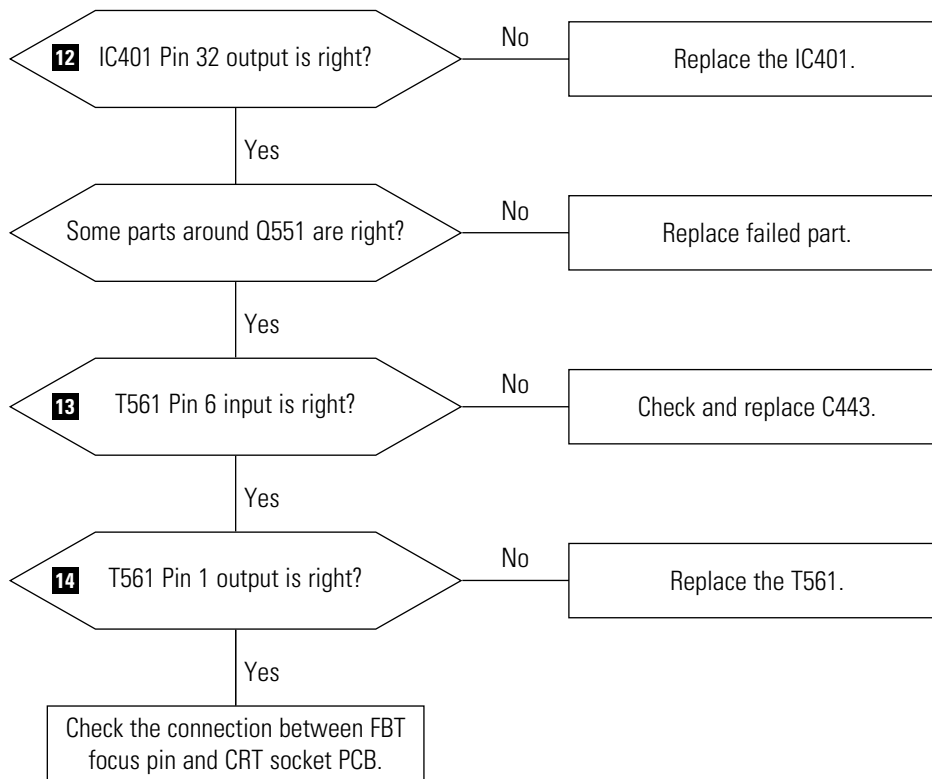
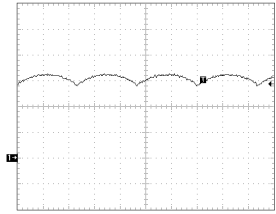
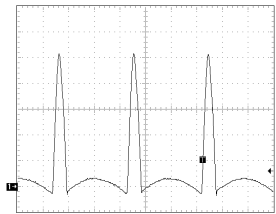
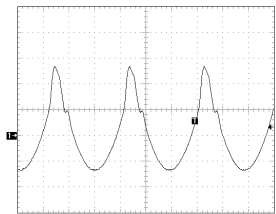


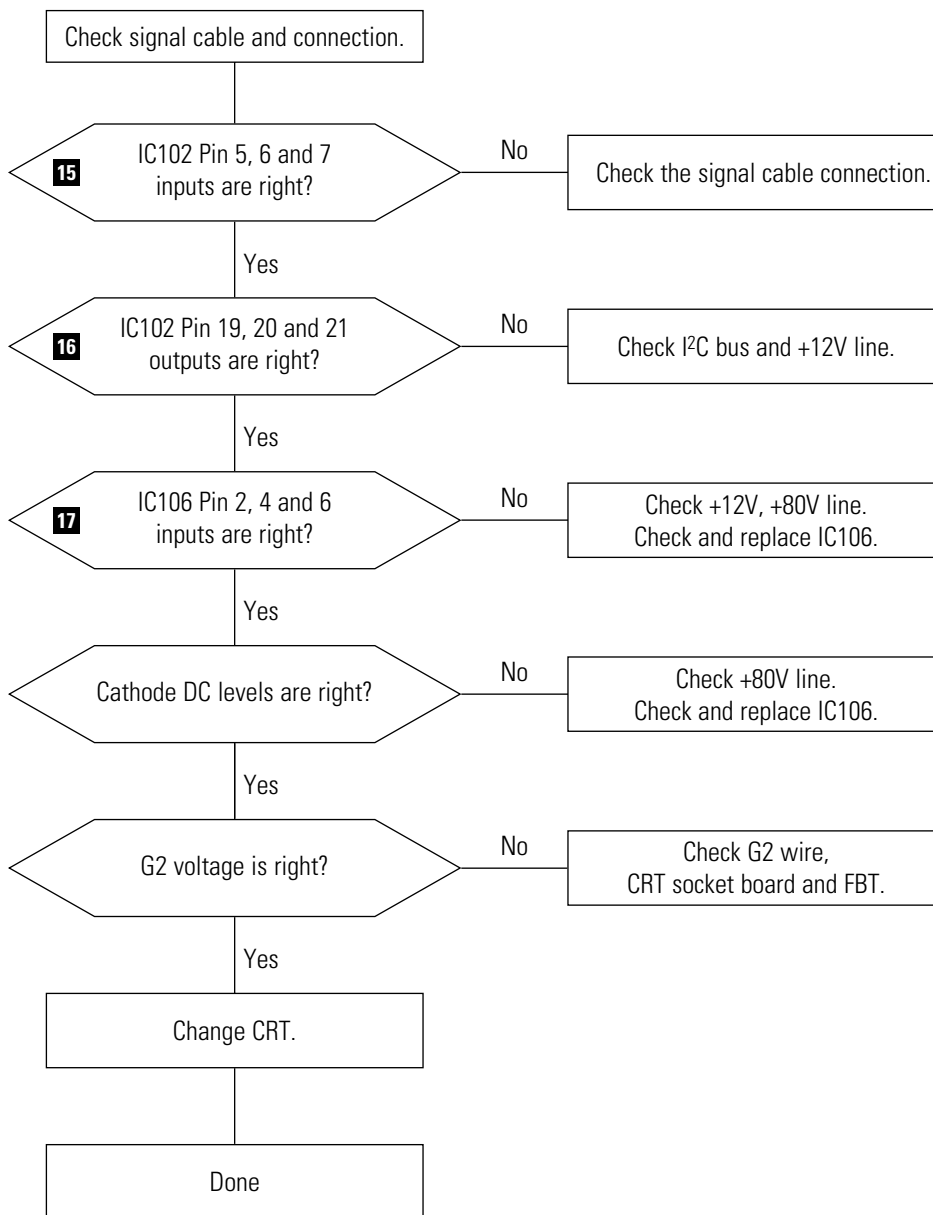
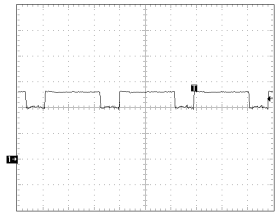
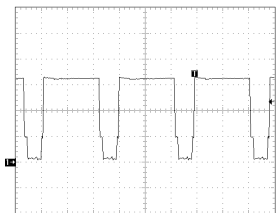
11 150 Vpp (Q590, Drain)

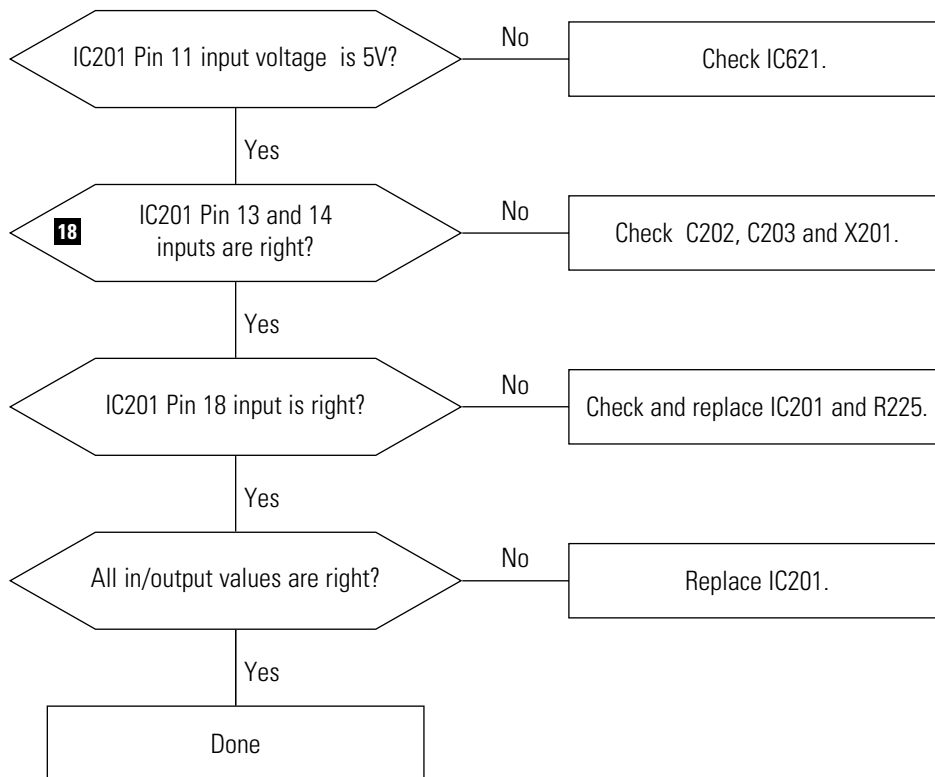
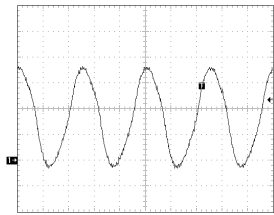


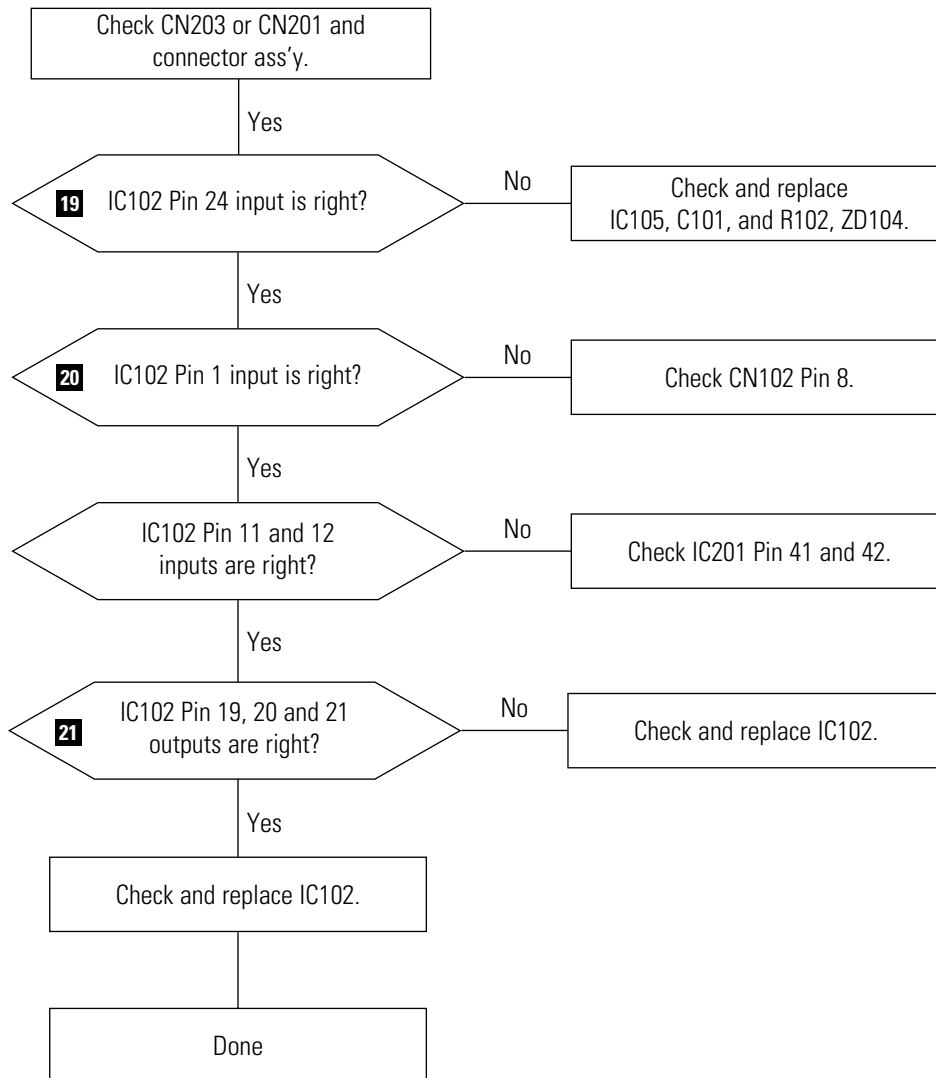
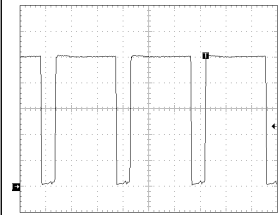
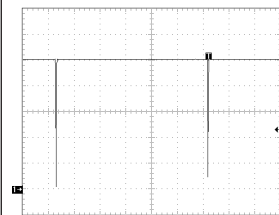
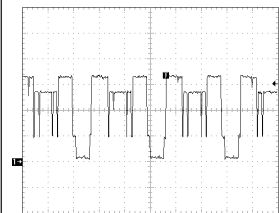
5-1-14 ABL Failure

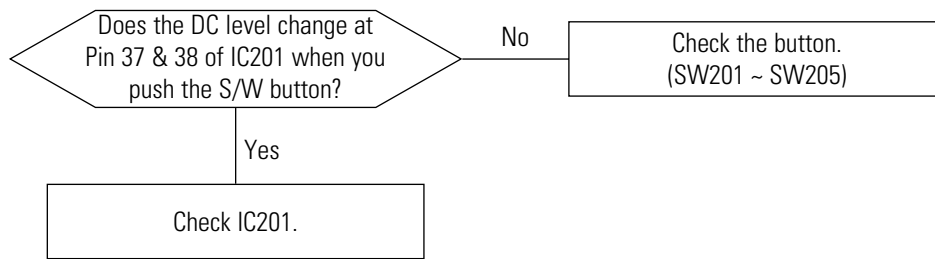
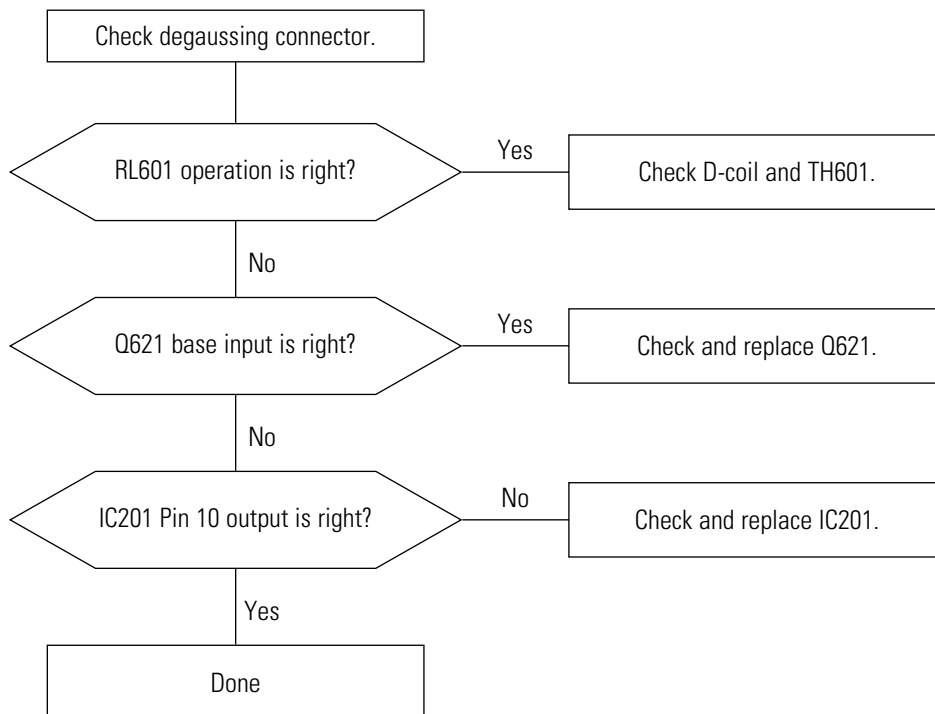


5-1-15 Dynamic Focus Failure (Only 17" Function)**WAVEFORMS****12** 0.58 Vpp (IC401, #32)**13** 50.0 V (T561, #6)**14** 380 Vpp (T561, #1)

5-1-16 No Video**WAVEFORMS****15** 1.00V (IC102 #5,6,7)**16** 1.00V (IC102 #19,20,21)**17** 20.0V (IC106, #2,4,6)

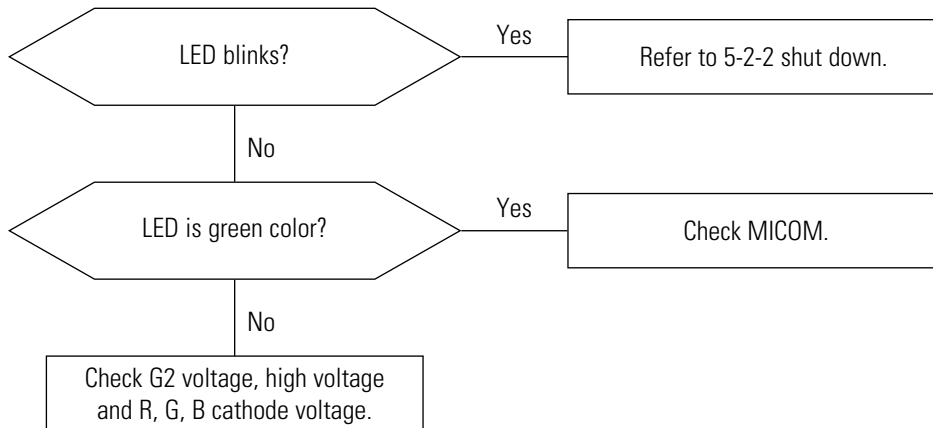
5-1-17 MICOM Failure**WAVEFORMS****18** 5 Vpp (IC201, #13, 14)

5-1-18 OSD Failure**WAVEFORMS****19** 1.00 V (IC102, #24)**20** 1.00 V (IC102, #1)**21** 1.00 V (IC102, #19,20,21)

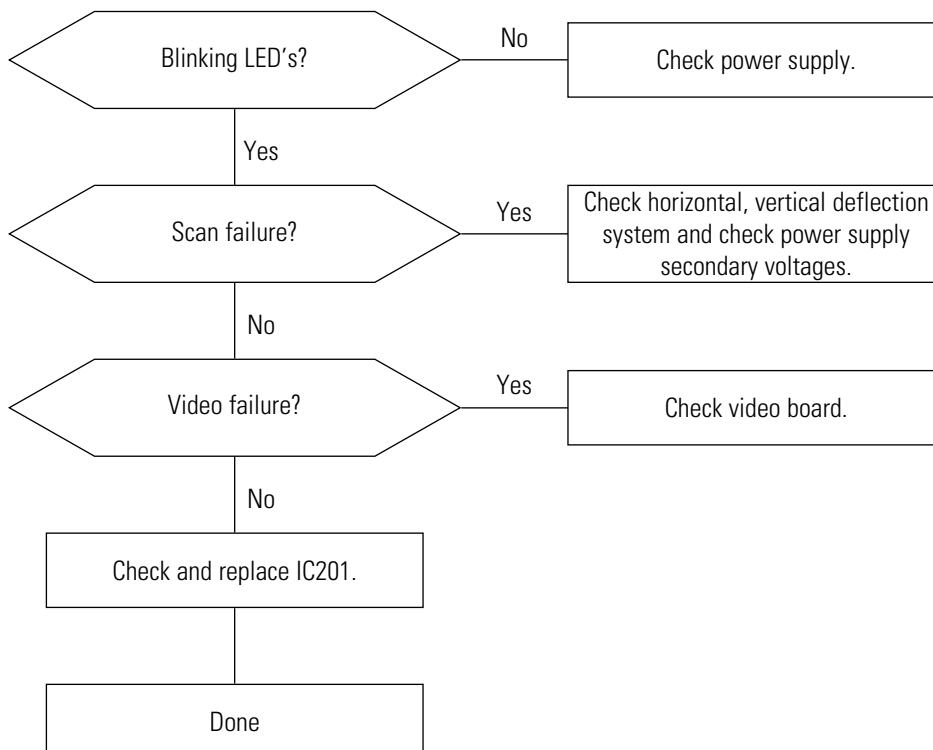
5-1-19 User Control & Power Switch Failure**5-1-20 Degaussing Failure**

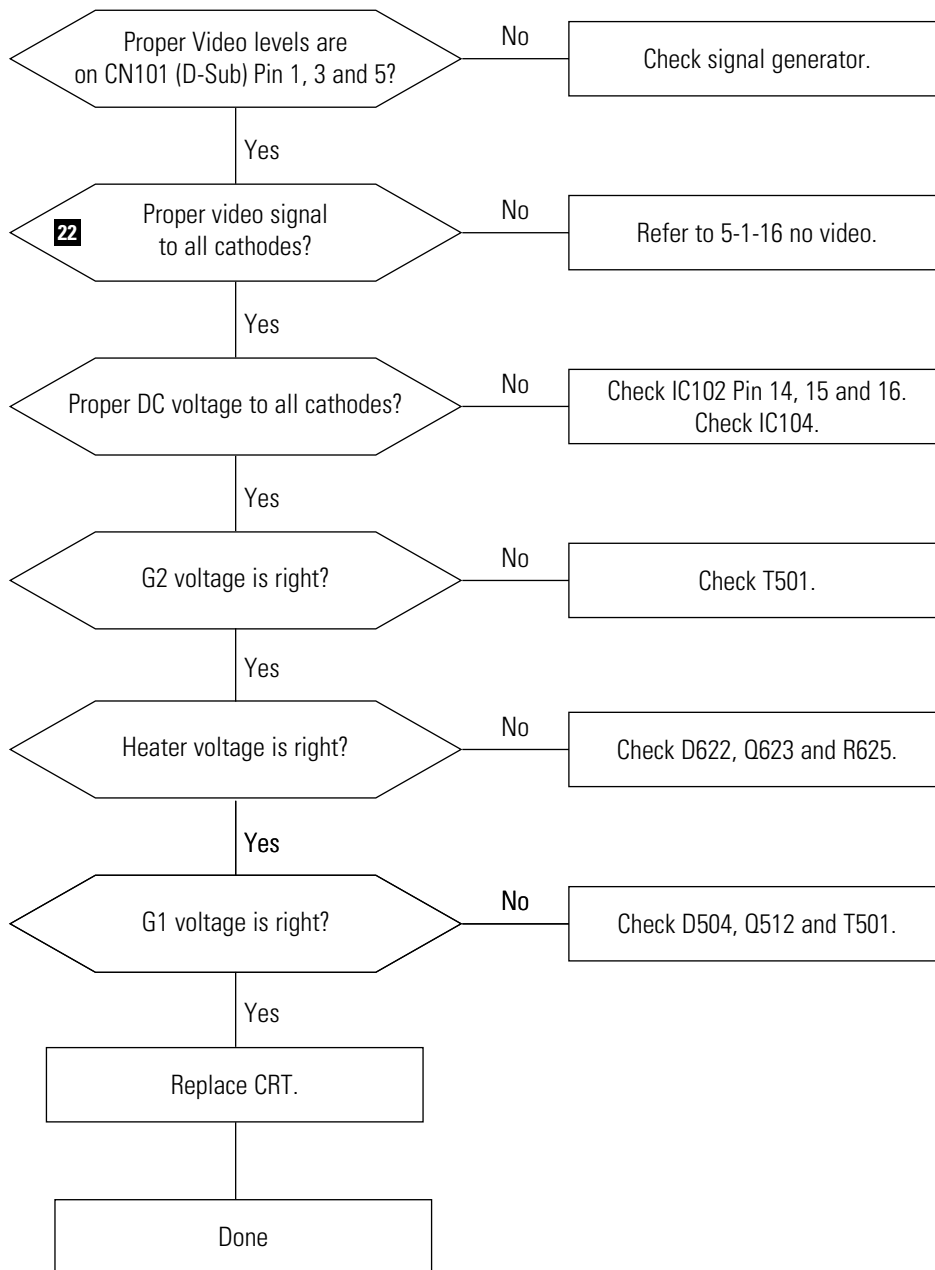
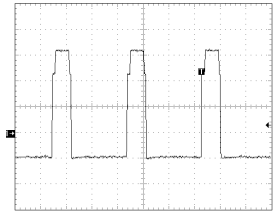
5-2 General Troubleshooting

5-2-1 No Picture

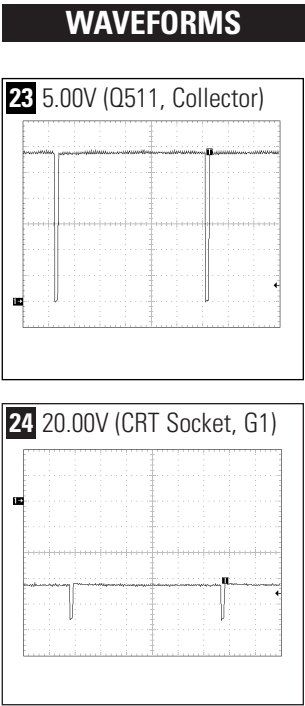
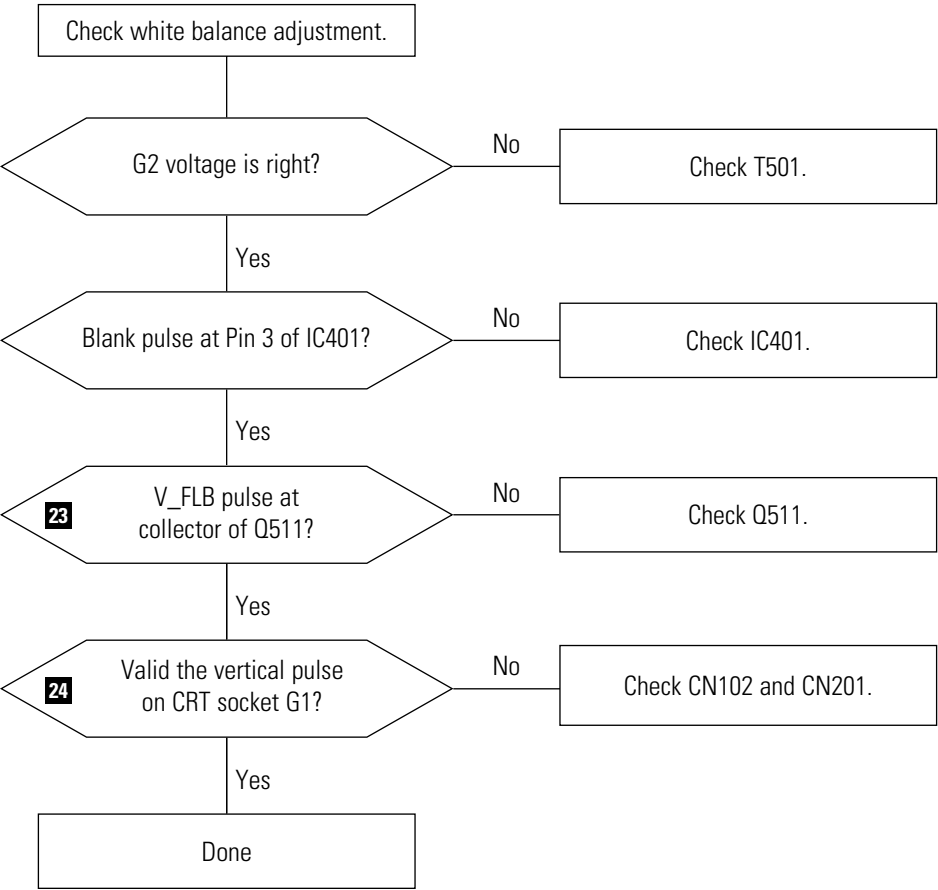


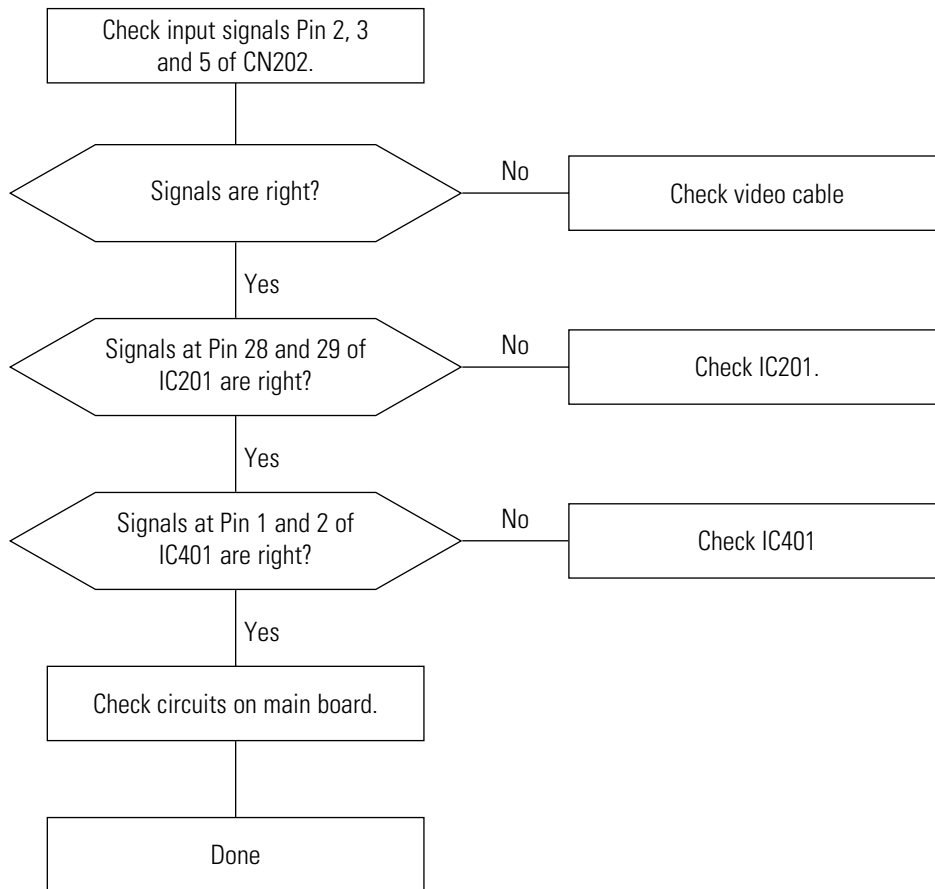
5-2-2 Shut Down

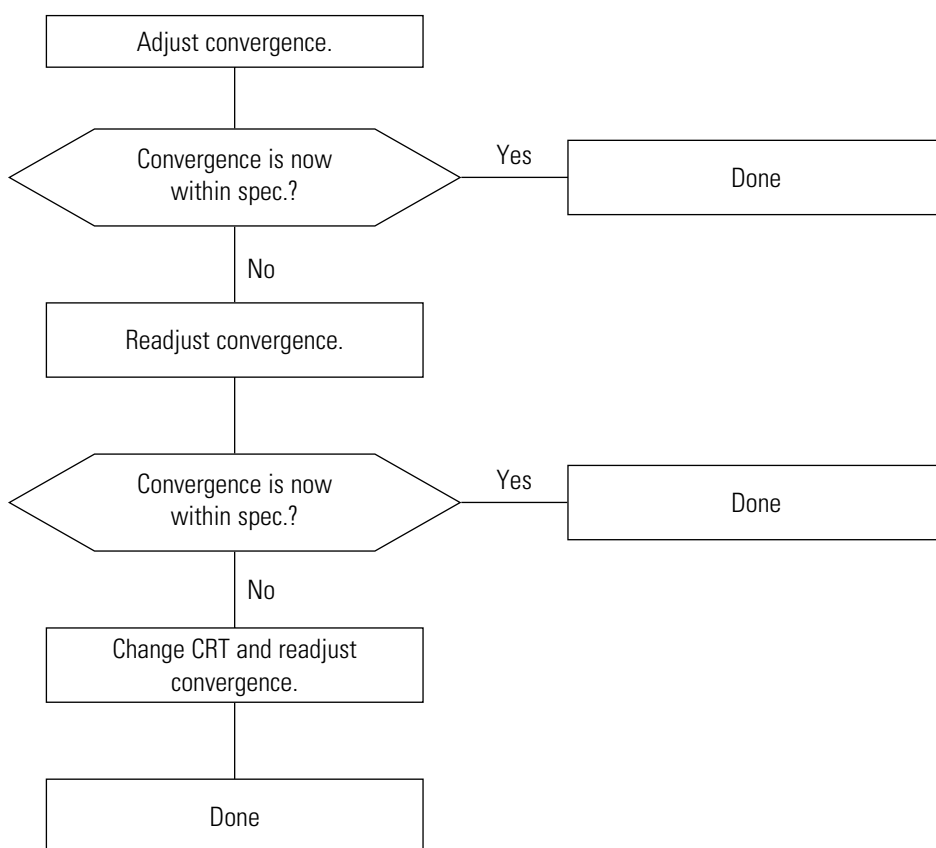


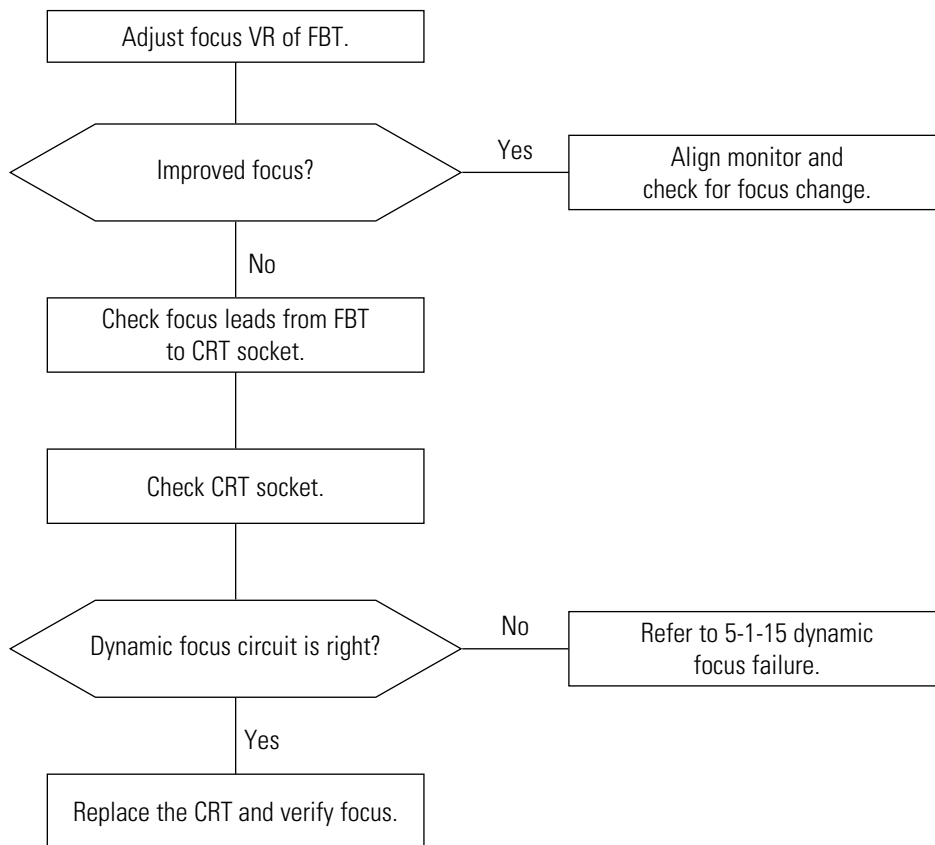
5-2-3 Missing Color**WAVEFORMS****22** 10.0 V (R,G,B, Video)

5-2-4 Visible Retrace



5-2-5 Unsynchronized Image

5-2-6 Misconvergence

5-2-7 Poor Focus (Only 17" Function)**5-2-8 Purity Failure**