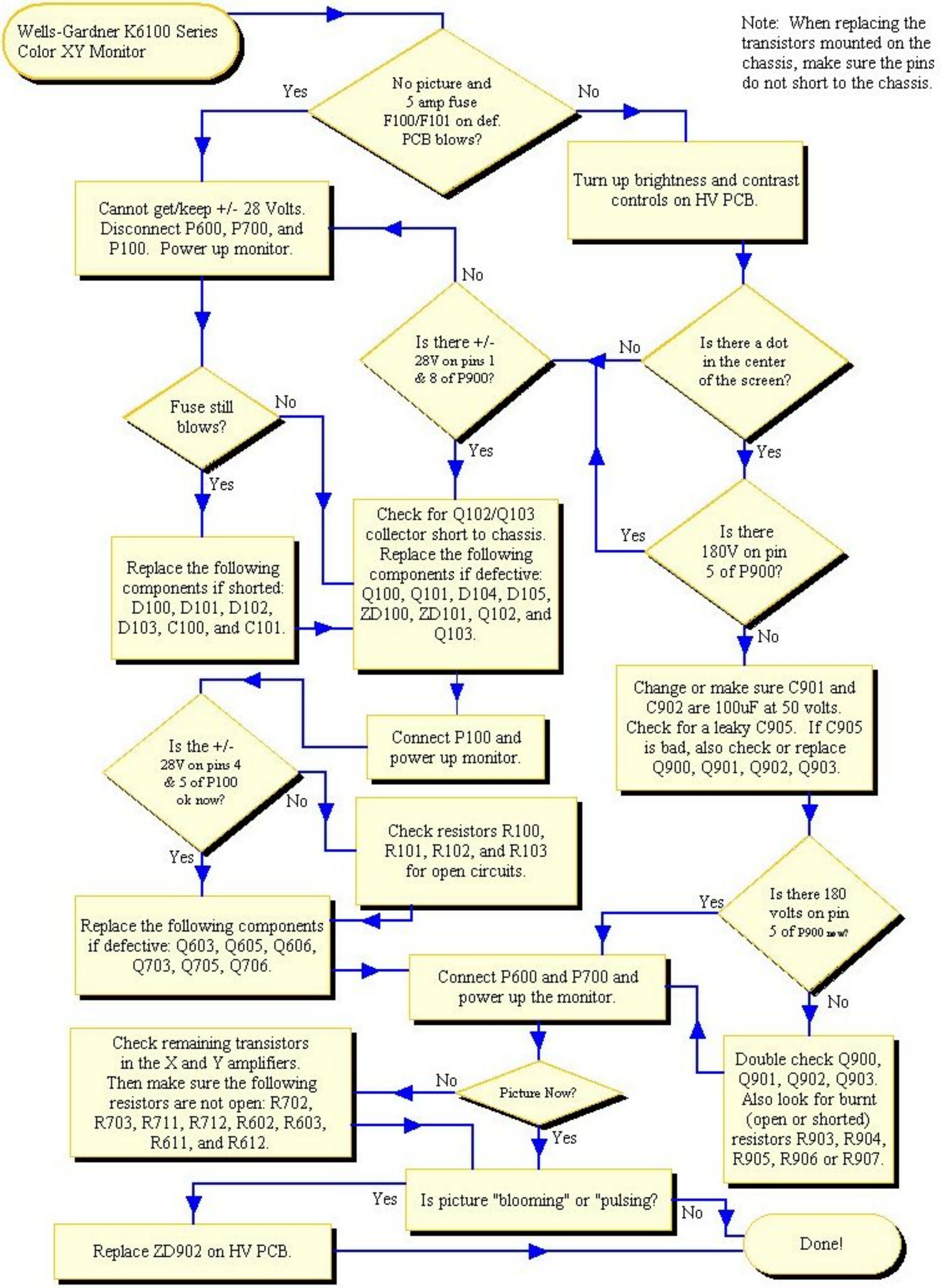
Wells-Gardner K6100 Series Color XY Monitor
Note: When replacing the transistors mounted on the chassis, make sure the pins do not short to the chassis.
No picture and 5 amp fuse F100/F101 on def. PCB blows?
Yes
No
Cannot get/keep +/- 28 Volts. Disconnect P600, P700, and P100. Power up monitor.
Turn up brightness and contrast controls on HV PCB.
Is there +/- 28V on pins 1 & 8 of P900?
No
Yes
Is there a dot in the center of the screen?
No
Yes
Fuse still blows?
No
Yes
Check for Q102/Q103 collector short to chassis. Replace the following components if defective: Q100, Q101, D104, D105, ZD100, ZD101, Q102, and Q103.
Is there 180V on pin 5 of P900?
Yes
No
Replace the following components if shorted: D100, D101, D102, D103, C100, and C101.
Change or make sure C901 and C902 are 100uF at 50 volts. Check for a leaky C905. If C905 is bad, also check or replace Q900, Q901, Q902, Q903.
Connect P100 and power up monitor.
Is the +/- 28V on pins 4 & 5 of P100 ok now?
No
Yes
Check resistors R100, R101, R102, and R103 for open circuits.
Is there 180 volts on pin 5 of P900 now?
Yes
No
Replace the following components if defective: Q603, Q605, Q606, Q703, Q705, Q706.
Connect P600 and P700 and power up the monitor.
Check remaining transistors in the X and Y amplifiers. Then make sure the following resistors are not open: R702, R703, R711, R712, R602, R603, R611, and R612.
No
Picture Now?
Yes
Double check Q900, Q901, Q902, Q903. Also look for burnt (open or shorted) resistors R903, R904, R905, R906 or R907.
Yes
Is picture "blooming" or "pulsing?
No
Replace ZD902 on HV PCB.
Done!