

U3000 TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	COMMENTS
NO PICTURE/VIDEO	Q102, T701, R802, ZD500, C723, Q501, T700, R626, CRT	
JITTER/SHAKY VIDEO	C115, Q205, Q101, J703, VR701	VR701 DIRTY OR BAD CONTACT
DARK/DIM VIDEO	Q604, IC U301, CRT	
WHITE SCREEN	IC U201, CRT	
FUZZY PICTURE	C115, T701	
NO POWER/DEAD	Q101, Q108, Q102, Q701, Q700, C106, IC U101, D106, U600	
BRIGHTNESS	Q200, D206, C310, Q102, IC U200, VR200, CRT	
CONTRAST	Q201, D207, C225, U200, VR202, VR201, CRT	
VERTICAL DEFLECTION	Q602, Q603, Q600, R628, ICU600	
HORIZ SYNC	Q803, Q103, IC U700, Q101, VR700, Q102	
COLOR PROBLEMS	R203, IC U200, CRT	
NO RED PICTURE RED	Q500, Q501, R506, IC U200, CRT Q500, Q501, IC U200, CRT	BLUE & GREEN MAY BE MISSING
NO BLUE PICTURE BLUE	Q504, Q505, R526, IC U200, CRT Q504, Q505, IC U200, CRT	RED & GREEN MAY BE MISSING
NO GREEN PICTURE GREEN	Q502, Q503, R516, IC U200, CRT Q502, Q503, IC U200, CRT	RED & BLUE MAY BE MISSING
WIDTH PROBLEM	L1, C36, C37, T1	
PIN CUSHION	VR703, L701, Q703	

NOTE: ITEMS IN THE "CAUSE" COLUMN ARE LISTED FROM MOST COMMON TO LEAST COMMON COMPONENTS

The voltages below are for reference only and may vary with input signal and control adjustments

U3000 Voltage Reference Chart

(This chart should only be used as a guide. Your readings may be different)

PART LOCATION	EMITTER	BASE	COLLECTOR	PART LOCATION	EMITTER	BASE	COLLECTOR
Q200	2.4	1.69	**	Q603	2.1	2.7	12.16
Q201	2.39	1.69	0	Q604	-0.23	-0.82	-91.25
Q202	2.4	1.68	0	Q605	6.27	7.12	23.36
Q203	0	-1.22	2.2	Q700	23.32	23.3	1.63
Q204	0	-0.07	2.21	Q701	**	**	**
Q205	0.01	-0.08	4.24	Q702	0	0.32	4.66
Q301	0	0.8	0.03	Q703	0.91	1.54	13.63
Q302	0	**	8.63	Q704	14.27	13.62	0.6
Q303	0	0	2.72	Q705	0	0.6	4.44
Q600	1.19	0.71	23.28	Q706	11.69	8.57	6.02
Q601	11.88	11.88	23.25	Q800	0	-1	-1.4
Q602	11.88	0	11.89	Q801	-0.77	-1.41	-0.85

LOCATION	ANODE	CATHODE	LOCATION	ANODE	CATHODE
D200	0.2	12.01	D605	0.68	0
D201	0	0.21	D702	23.39	23.37
D202	0.13	12.01	D704	8.06	104.02
D203	0	0.13	D705	0	8.07
D204	0.16	12.01	D706	**	
D205	0	0.16	D707	**	
D206	2.34	1.68	D708	23.39	23.38
D207	2.34	1.68	D710	0	19.03
D208	2.33	1.68	D800	-103.3	**
D209	1.79	2.21	D801	0	-0.14
D210	1.78	2.22	D802	-0.01	4.56
D211	1.78	2.22	ZD301	0	5.08
D301	3.7	5.09	ZD600	1.35	2.68
D302	0	3.7	ZD700	0	11.65
D305	2.95	5.09	ZD701	0	3.42
D306	0	2.95	ZD702	-0.2	7.15
D602	1.31	23.2			
D603	23.21	23.22			
D604	1.36	0.68			