

HITACHI

SERVICE MANUAL

PAL/SECAM/NTSC

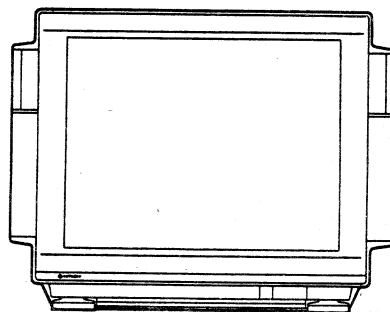
YK

No.0434E

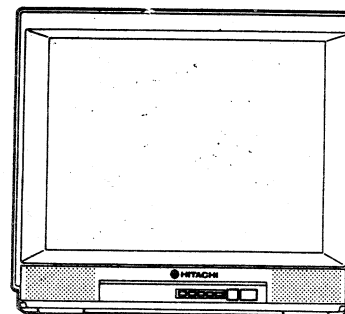
CMT2117 -191
-192
CMT2145 -191
-192
CMT2157 -191
-192

SO Chassis

CMT2117



CMT2145/CMT2157



July 1992

Symbol No.	PAL Voltage (V)	SECAM Voltage (V)	NTSC3.58 Voltage (V)
IC001 (VL) 1	12.4	12.4	12.4
2	0	0	0
3	0.1	0.1	0.1
4	0.1	0.1	0.1
5	0	0	0
6	14.0	14.0	14.0
7	-	-	-
8	0	0	0
9	12.4	12.4	12.4
IC001 (VH) 1	0	0	0
2	12.4	12.4	12.4
3	1.8	1.8	1.8
4	0.1	0.1	0.1
5	0	0	0
6	14.0	14.0	14.0
7	-	-	-
8	0	0	0
9	12.4	12.4	12.4
IC001 (UHF) 1	0	0	0
2	0	0	0
3	1.8	1.8	1.8
4	0.1	0.1	0.1
5	0	0	0
6	14.0	14.0	14.0
7	-	-	-

Symbol No.	PAL Voltage (V)	SECAM Voltage (V)	NTSC3.58 Voltage (V)
17	5	5	5
18	5	5	5
19	-	-	-
20	2.15	2.5	2.43
21	4.3	4.4	4.35
22	0	0	0
23	0	0	0
24	4.9	4.9	4.9
25	5.4	5.46	0.051
26	0	0	0
27	4.1	4.1	4.1
28	2.2	2.2	2.17
29	1.6	1.6	5.6vp-p
30	-	-	-
31	-	-	-
32	0	0	0
33	-	-	-
34	5	5	5
35	5	5	5
36	3	3	3.3
37	3.9	3.9	1.74
38	0-5	0-5	2.77
39	0-10	0-10	4
40	0-10	0-10	3.3
41	-	-	-

Symbol No.	PAL Voltage (V)	SECAM Voltage (V)	NTSC3.58 Voltage (V)
61	0.105	0.105	0.1
62	0.105	0.105	0.1
63	0.105	0.105	0.1
64	-	-	-
IC1102 1	5	5	5
2	5	5	5
3	0	0	0
4	5	5	5
5	5	5	5
6	-	-	-
7	5	5	5
8	5	5	5
IC1301 (TV) 1	-	-	-
2	0	0	0
3	0	0	0
4	0	0	0
5	6.4	6.4	6.4
6	0.1	0.1	0.1
7	6.3	6.3	6.3
8	5.7	5.7	5.7
9	9.7	9.7	9.7
10	6.4	6.4	6.4
11	5.7	5.7	5.7
12	6.4	6.4	6.4

Symbol No.	PAL Voltage (V)	SECAM Voltage (V)	NTSC3.58 Voltage (V)
7	6.1	6.1	6.1
8	0	0	0
IC4502 1	12	12	12
2	5.6	5.6	5.6
3	-	-	-
4	7.8	7.8	7.8
5	6.7	6.7	6.7
6	6.8	6.8	6.8
7	0	0	0
8	6.9	6.9	6.9
9	14.7	14.7	14.7
IC5001 1	2.22	2.2	2.82
2	2.22	2.2	
3	2.82	2.82	
4	3.6	3.6	
5	3.55	3.56	
6	3	3	
7	3.2	3.2	
8	0	0	
9	2.64	2.6	
10	9.7	9.7	
11	3.54	3.52	
12	5.8	5.8	
13	5.7	5.7	

5	0	0	0
6	14.0	14.0	14.0
7	-	-	-
8	0	0	0
9	12.4	12.4	12.4
IC001 (UHF)			
1	0	0	0
2	0	0	0
3	1.8	1.8	1.8
4	0.1	0.1	0.1
5	0	0	0
6	14.0	14.0	14.0
7	-	-	-
8	12.4	12.4	12.4
9	12.4	12.4	12.4
IC1101			
1	5	5	5
2	0~5	0~5	0~5
3	-	-	-
4	-	-	-
5	-	-	-
6	5Vp-p	5Vp-p	5Vp-p
7	0.032	0.032	0.032
8	5	5	5
9	5	5	5
10	5	5	5
11	4.9	4.9	4.9
12	4.9	4.9	4.9
13	5	5	5
14	5	5	5
15	-	-	-
16	5	5	5

31	-	-	-
32	0	0	0
33	-	-	-
34	5	5	5
35	5	5	5
36	3	3	3.3
37	3.9	3.9	1.74
38	0~5	0~5	2.77
39	0~10	0~10	4
40	0~10	0~10	3.3
41	-	-	-
42	4.3	4.3	4.3
43	0.032	0.032	0.032
44	0.032	1.94	1.96
45	0.036	0.036	0.036
46	0.036	0.036	0.036
47	0.04	0.04	0.04
48	0.04	0.04	0.04
49	0.064	0.064	0.064
50	0.064	0.064	0.063
51	0.067	0.066	0.066
52	0.067	0.066	0.066
53	0.067	0.067	0.066
54	0.32	0.032	0.316
55	0.069	0.069	0.069
56	0.069	0.069	0.069
57	-	-	-
58	5	5	5
59	1.04	1.04	1.05
60	4.88	4.88	4.87

IC1301 (TV)			
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	6.4	6.4	6.4
6	0.1	0.1	0.1
7	6.3	6.3	6.3
8	5.7	5.7	5.7
9	9.7	9.7	9.7
10	6.4	6.4	6.4
11	5.7	5.7	5.7
12	6.4	6.4	6.4
IC1301 (VIDEO)			
1	-	-	-
2	8.0	8.0	8.0
3	0	0	0
4	8.0	8.0	8.0
5	6.4	6.4	6.4
6	0.1	0.1	0.1
7	6.3	6.3	6.3
8	5.7	5.7	5.7
9	9.9	9.9	9.9
10	6.4	6.4	6.4
11	5.7	5.7	5.7
12	6.4	6.4	6.4
IC1302			
1	9.6	9.6	9.6
2	6.1	6.1	6.1
3	0.1	0.1	0.1
4	5.4	5.4	5.4
5	0	0	0
6	0	0	0

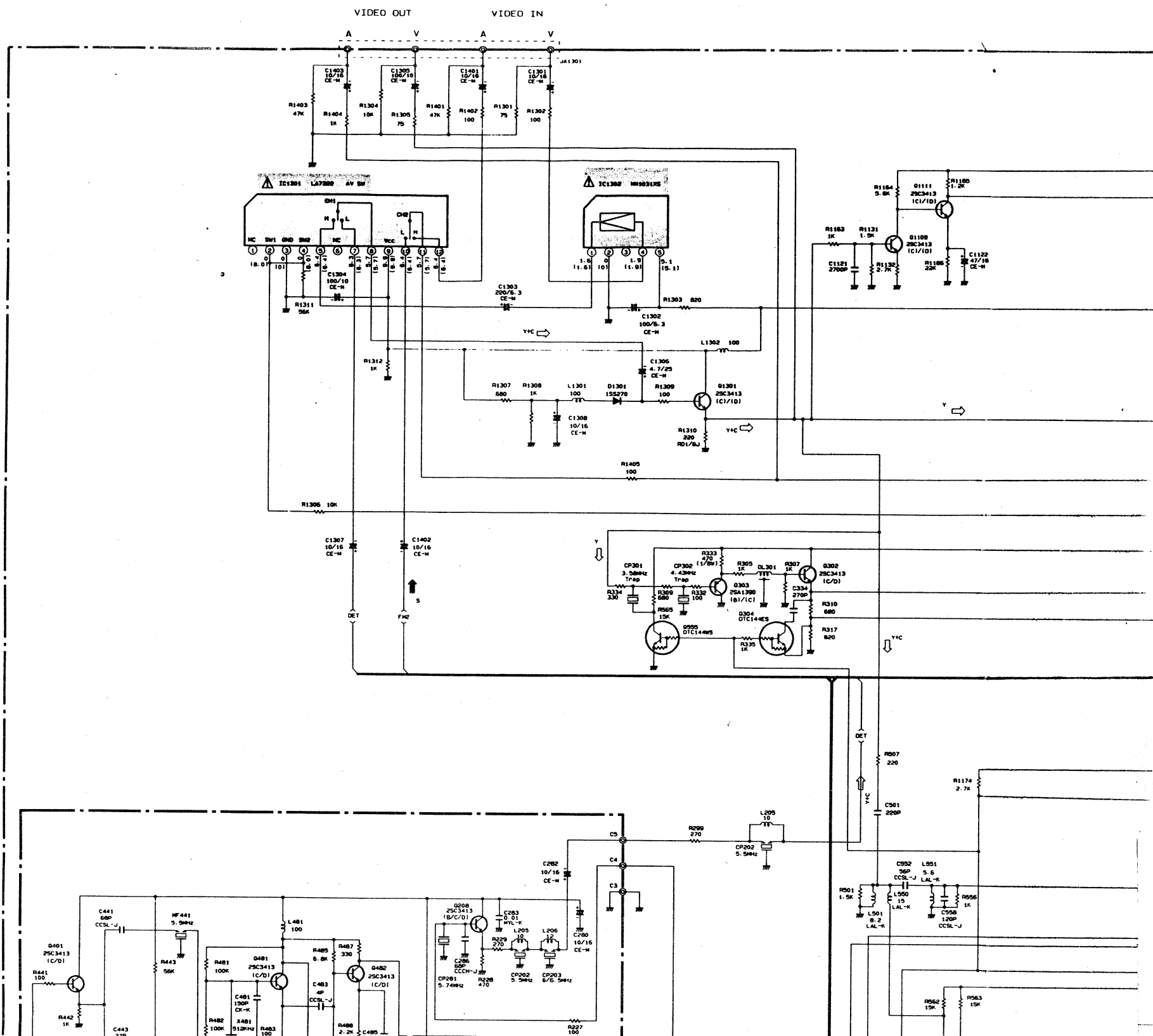
2	2.22	2.2
3	2.82	2.82
4	3.6	3.6
5	3.55	3.56
6	3	3
7	3.2	3.2
8	0	0
9	2.64	2.6
10	9.7	9.7
11	3.54	3.52
12	5.8	5.8
13	5.7	5.7
14	5.8	5.8
15	3.5	3.52
16	9	0.3
17	9.7	9.6
18	3.4	3.4
19	3.4	3.4
20	4	4
21	4.7	4.7
22	4	5
23	4	5
24	4	5
25	5.9	5.2
26	7.22	7.3
27	1	0.02
28	3.2	3.2
29	5.9	7.8
30	0.4	0.45
31	1.65	1.67
32	0.23	0.24

Symbol No.	PAL Voltage (V)	SECAM Voltage (V)	NTSC3.58 Voltage (V)
IC501			
1	6.23	6.20	4.78
2	5.84	5.84	5.84
3	4.55	4.74	4.54
4	5.71	5.71	5.71
5	4.44	4.43	4.43
6	0	0	0
7	4.76	4.75	4.75
8	4.76	4.75	4.75
9	6.84	6.75	6.84
10	6.92	6.86	6.92
11	9.96	9.96	9.97
12	7.06	6.62	7.29
13	9.95	9.95	9.95
14	6.22	6.23	0.61
15	7.53	6.22	3.62
16	6.45	7.38	6.45
17	5.78	6.29	5.78
18	3.61	3.63	2.82
19	4.69	4.68	4.70
20	3.61	3.63	2.82
21	4.09	4.08	4.06
22	6.63	6.23	6.85
23	4.09	4.09	4.13
24	3.88	3.77	3.84
25	7.38	7.38	7.38
26	0.59	0.59	0.63
27	0.55	0.55	0.55
28	4.97	4.97	4.97
29	5.53	5.53	5.48
30	7.93	7.92	7.95
31	0.27	0.27	2.97
32	5.02	5.02	5.00
33	7.88	8.12	7.89
34	0	0	0
35	4.17	4.14	4.09
36	2.71	2.72	2.71
37	8.50	8.46	8.51
38	1.94	1.94	1.94
39	5.95	5.95	5.95
40	4.64	4.64	4.64
41	6.63	5.90	6.63
42	3.67	4.15	3.65
43	0	7.67	7.67
44	0	4.45	0

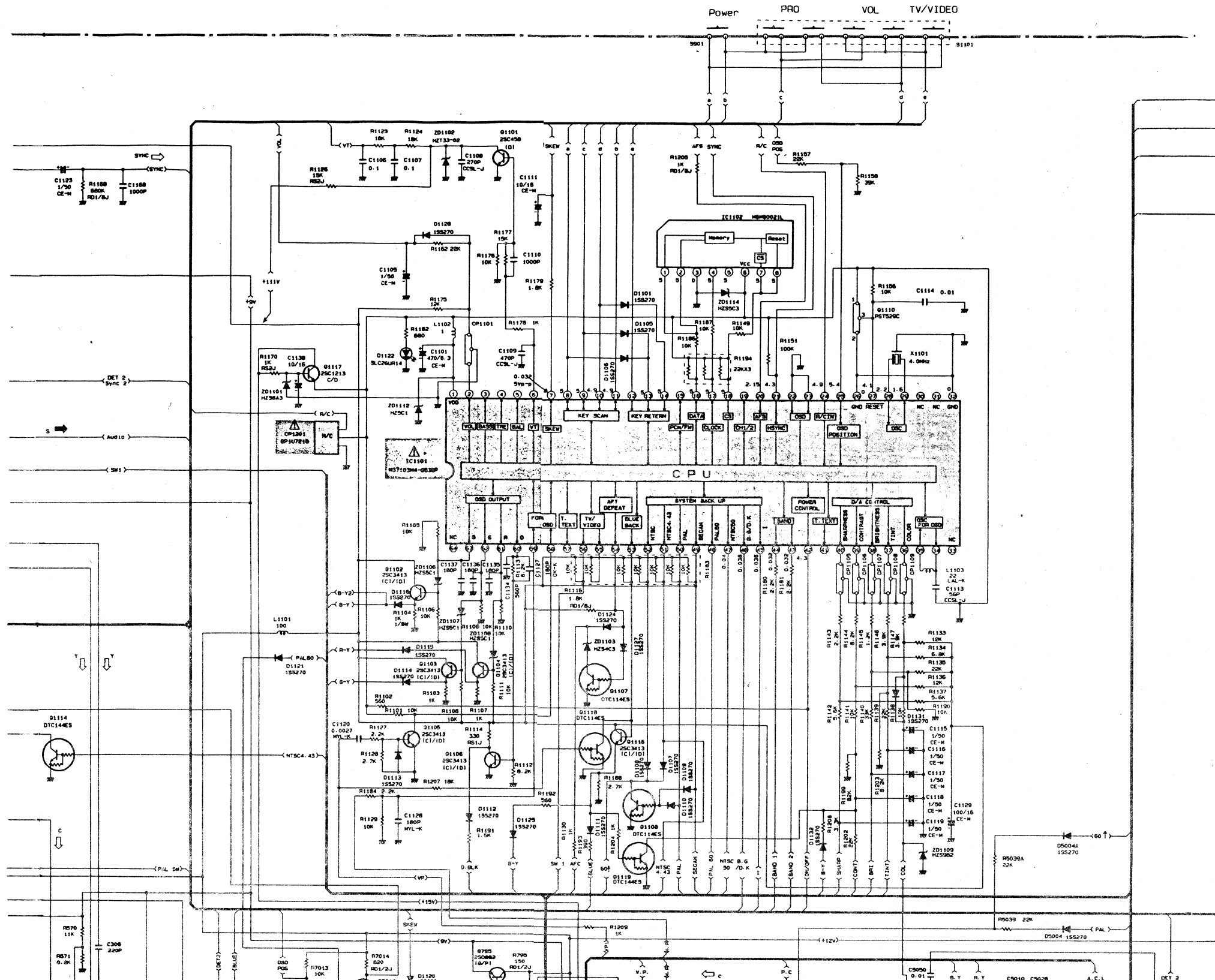
Symbol No.	PAL Voltage (V)	SECAM Voltage (V)	NTSC3.58 Voltage (V)
45	0	0	0
46	6.46	1.79	6.54
47	5.37	5.37	5.37
48	0	5.37	5.37
IC681			
1	10.6		10.6
2	5.0		5.0
3	5.3		5.3
4	5.4		5.4
5	0.3		2.9
6	5.3		5.3
7	5.0		5.0
8	24.9		24.9
9	2.1		2.4
10	1.4		1.4
11	0		0
12	4.7		14.7
13	25.3		25.5
IC901			
1	10.7	0.7	0.7
2	-2.5	-2.5	-2.5
3	250	250	250
4	0	0	0
5	-4.8	-4.8	-4.8
IC902			
1	109	109	109
2	76	76	76
3	0	0	0
IC903			
1	78	78	78
2	77	77	77
3	-	-	-
4	-4.9	-4.9	-4.9
5	0.7	0.7	0.7
6	-4.4	-4.4	-4.4
Q001			
E	0	0	0
C	6.1	6.1	6.1
B	0	0	0
Q002			
E	0	0	0
C	0	0	0
B	8.7	8.7	8.7
Q1101			
E	0	0	0
C	1.6	1.1	9.6
B	0.6	0.3	0.35

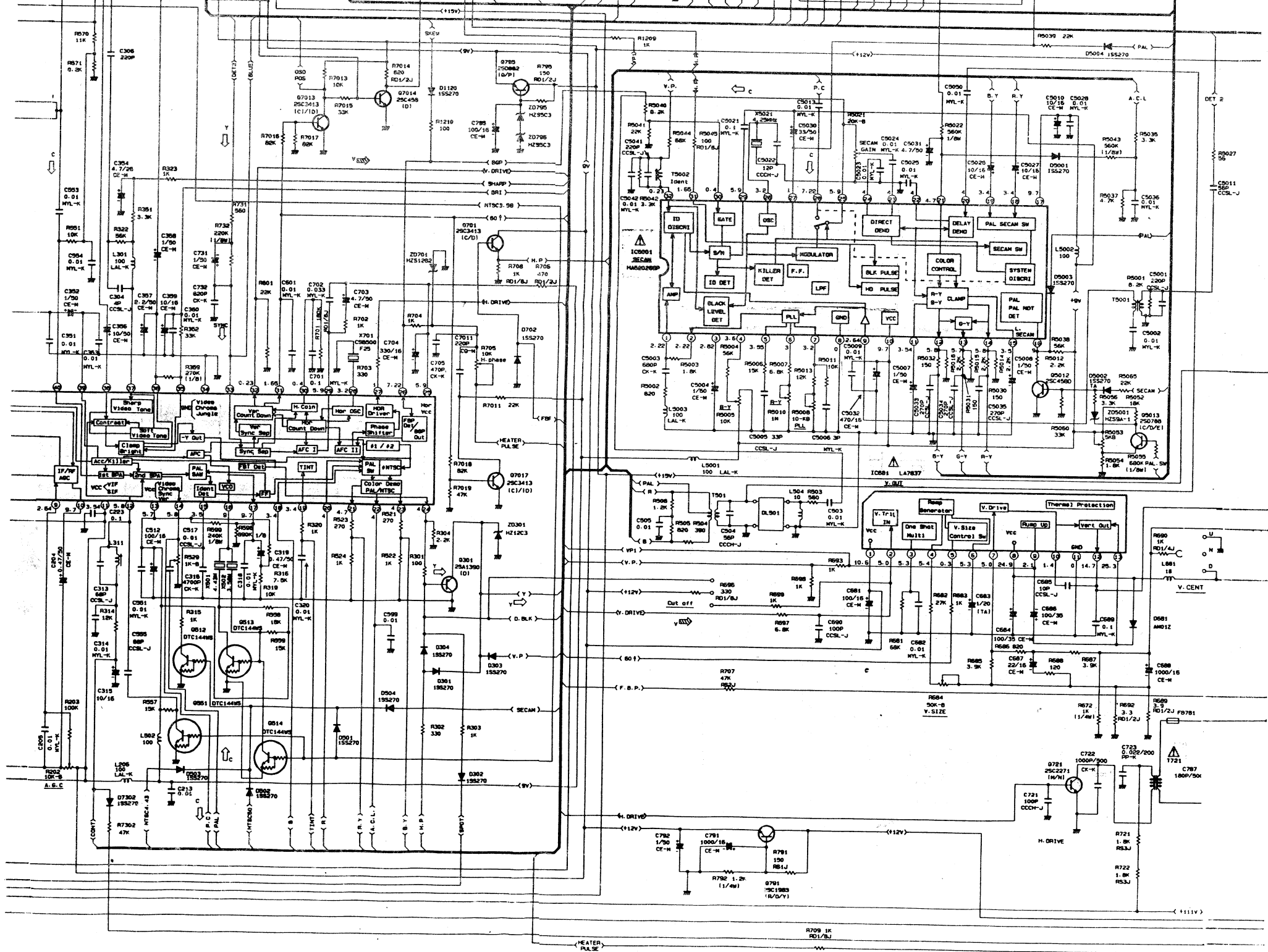
Symbol No.	PAL Voltage (V)	SECAM Voltage (V)	NTSC3.58 Voltage (V)
Q1102			
E	4.1	4.1	4.1
C	12	12	12
B	4.8	4.8	4.7
Q1103			
E	4	4	4
C	12	12	12
B	4.7	4.7	4.7
Q1104			
E	4	4	4
C	12	12	12
B	4.7	4.7	4.7
Q1105			
E	0	0	0
C	5	5	5
B	0	0	0
Q1106			
E	0	0	0
C	0.22	0.2	0.23
B	0.78	0.78	0.78
Q1107			
E	0	0	0
C	3	3	3
B	0	0	0
Q1109			
E	2.64	2.8	2.6
C	6.7	6.4	6.7
B	3.3	3.4	3.3
Q1110			
1	5	5	5
2	0	0	0
3	4.3	4.3	4.3
Q1111			
E	6.8		
C	11.7	11.7	11.8
B	6.7	6.4	6.7
Q1116			
E	0	0	0
C	12	12	12
B	0.066	0.066	0.065
Q1117			
E	5	5	5
C	15	15	15
B	5.6	5.6	5.6
Q1118			
E	0	0	0
C	0.065	0.065	0.065
B	0.9	0.9	1
Q1301			
E	5.0	5.0	5.0
C	9.9	9.9	9.9
B	5.6	5.6	5.6

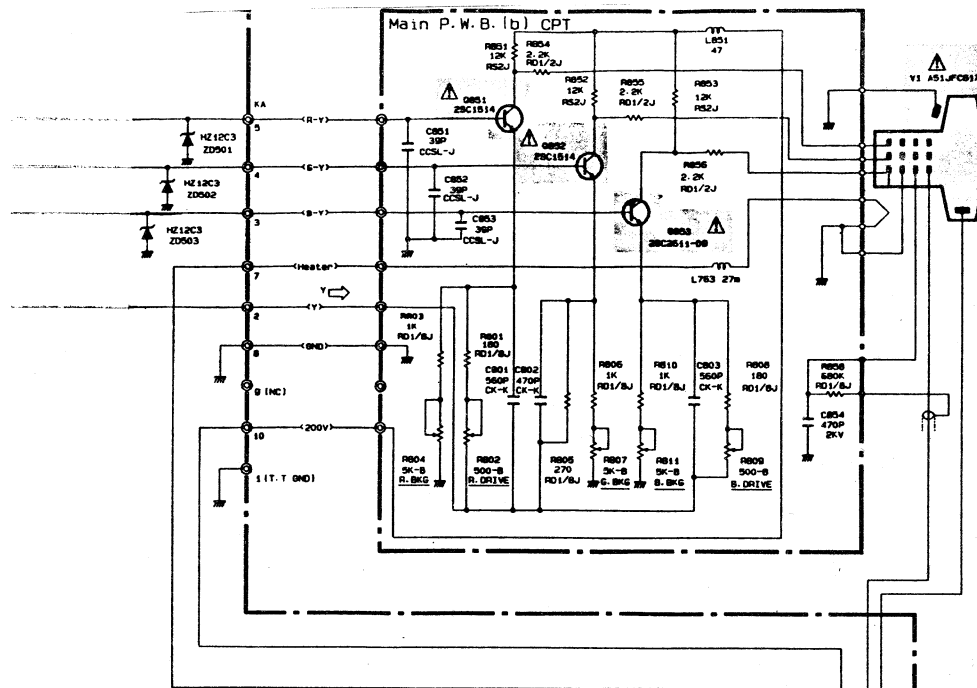
Symbol No.	PAL Voltage (V)	SECAM Voltage (V)	NTSC3.58 Voltage (V)
Q301			
E	4.5	4.5	4.5
C	0	0	0
B	4.0	4.0	4.0
Q302			
E	2.5	2.5	2.5
C	10.0	10.0	10.0
B	3.1	3.1	3.1
Q303			
E	6.2	6.2	6.2
C	0	0	0
B	5.6	5.6	5.6
Q4501			
E	14.7	14.7	14.7
C	15.4	15.4	15.4
B	15.3	15.3	15.3
Q5012			
E	0	0	
C	9	0	
B	0.5	0.62	
Q5013			
E	5.8	5.6	
C	6	8.6	
B	6.2	5.5	
Q512			
E	0	0	0
C	7.5	6	0
B	0	0	7.5
Q551			
E	0	0	0
C	10	10	0
B	0	0	8
Q553			
E	0	0	0
C	0	0	0
B	0	0	8
Q554			
E	0	0	0
C	0	0	0
B	0	0	8
Q555			
E	0	0	0
C	10	10	0
B	0	0	8
Q701			
E	1.7		1.7
C	9.9		9.9
B	1.6		1.6
Q7013			
E	0		0
C	8.5		0
B	0.2		2.0



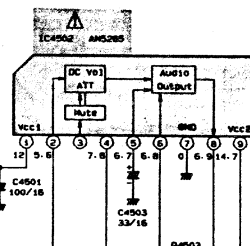








ITEM	CHT2157	CHT2149	CHT2117
MULTI P.W.B.	○	—	—
SP401/SP402	○	○	—
SP401/SP403 SP402/SP404	—	—	○



Symbol No.	PAL Voltage (V)	SECAM Voltage (V)	NTSC3.58 Voltage (V)
Q7014 E	0		0
C	0		0
B	0.8		0
Q7017 E	0		0
C	9.9		0.2
B	0.2		2.0
Q721 E	0		0
C	37.6		37.4
B	0.3		0.3
Q781 E	3.5		3.5
C	175		178
B	3.4		3.3
Q791 E	12.4		12.4
C	14.7		14.7
B	13.0		13.0
Q795 E	9.9		9.9
C	12.3		12.3
B	10.6		10.6
Q851 E	9.2	9.2	9.2
C	215	215	215
B	9.2	9.2	9.2
Q852 E	8.8	8.8	8.8
C	215	215	215
B	9.2	9.2	9.2
Q853 E	8.8	8.8	9.9
C	190	190	190
B	9.2	9.2	9.2
Q902 E	77	77	77
C	0	0	0
B	76	76	76
Q903 E	0	0	0
C	0.1	0.1	0.1
B	0.7	0.7	0.7
Q904 A	111	111	111
K	0	0	0
G	0	0	0
Q905 E	12.4	12.4	12.4
C	15.4	15.4	15.4
B	13.1	13.1	13.1

Symbol No.	PAL Voltage (V)	SECAM Voltage (V)	NTSC3.58 Voltage (V)
Q906 E	0	0	0
C	13.1	13.1	13.1
B	0.05	0.05	0.05
Q907 E	-4.9	-4.9	-4.9
C	0.7	0.7	0.7
B	-7.2	-7.2	-7.2
Q908 E	0.65	0.65	0.65
C	76	76	76
B	0.05	0.05	0.05
Q909 E	0	0	0
C	0.05	0.05	0.05
B	3.0	3.0	3.0

