



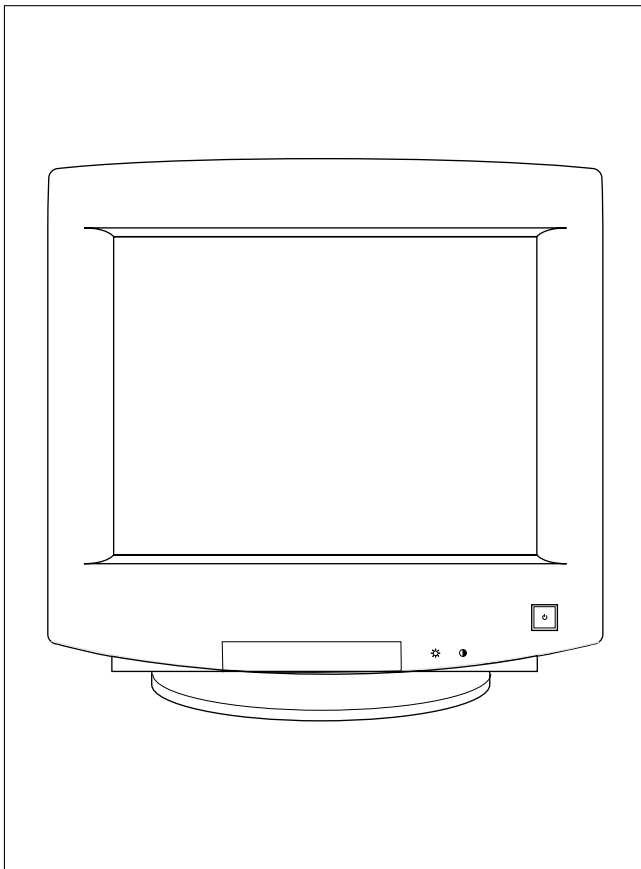
COLOR MONITOR

CSH7839L
(SyncMaster 700p^{plus})

CSH9839L
(SyncMaster 900p)

SERVICE *Manual*

COLOR MONITOR



CONTENTS

1. Precautions
2. Reference Information
3. Product Specifications
4. Operating Instructions
5. Disassembly & Reassembly
6. Alignment & Adjustments
7. Troubleshooting
8. Exploded View & Parts List
9. Electrical Parts List
10. Block Diagram
11. PCB Diagrams
12. Wiring Diagram
13. Schematic Diagrams

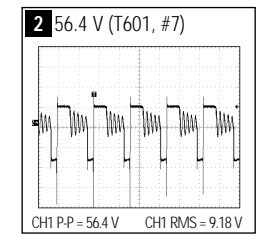
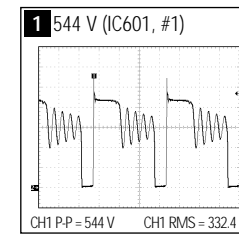


Table 13-1. IC201 (ST72E75_3)

pin #	MODES			pin #	MODES		
	31 kHz	69 kHz	96 kHz		31 kHz	69 kHz	96 kHz
1	0.239	0.238	0.241	22	3.65	3.39	3.36
2	0.210	0.210	0.212	23	GND	GND	GND
3	1.875	1.871	1.876	24	3.96	0.337	4.17
4	2.111	3.34	3.88	25	5.05	5.05	5.05
5	1.833	1.830	1.835	26	Low	Low	Low
6	-	-	-	27	High	High	High
7	0.237	0.236	0.239	28	-	-	-
8	3.73	3.72	0.238	29	-	-	-
9	GND	GND	GND	30	-	-	-
10	5.05	5.05	5.05	31	Low	Low	Low
11	up: 0.535, down: 1.478, left: 2.478, right: 3.45			32	2.258	2.258	2.258
12	pos: 0.539, pin: 1.476, menu: 2.476			33	2.233	2.233	2.233
13	3.24 ~ 5.02	3.24 ~ 5.02	3.24 ~ 5.02	34	High	High	High
14	0 ~ 5.06	0 ~ 5.06	0 ~ 5.06	35	High	High	High
15	4.51	0.02	4.5	36			
16	0.112	0.122	0.172	37			
17	Low	Low	Low	38			
18	4.64	4.46	4.39	39			
19	D-Sub : High, BNC : Low			40	5.05	5.05	5.05
20	Low	Low	Low	41	GND	GND	GND
21	0.604	0.376	0.378	42			

Unit: Vrms

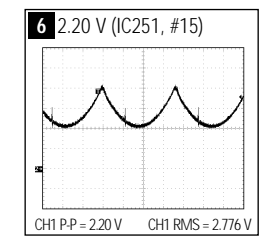
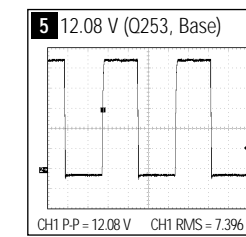
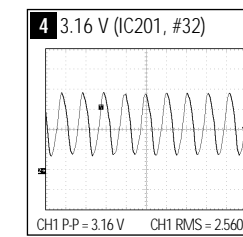
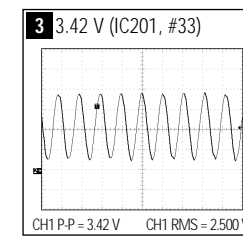


Table 13-2. IC251 (TDA9110)

pin #	MODES			pin #	MODES		
	31 kHz	69 kHz	96 kHz		31 kHz	69 kHz	96 kHz
1	0.610	0.382	0.384	17	GND	GND	GND
2	Low	Low	Low	18	11.9	11.9	11.9
3	0 ~ 1.127	0 ~ 1.127	0 ~ 1.127	19	GND	GND	GND
4	3.28	3.28	3.28	20	5.42	5.22	5.18
5	3.121	2.469	1.96	21	8.07	8.07	8.07
6	6.35	6.35	6.35	22	3.52	3.52	3.51
7	3.96	3.96	3.96	23	3.38	3.44	3.40
8	1.515	3.32	4.69	24	2.92	2.86	2.81
9	1.517	3.32	4.7	25	Low	Low	Low
10	3.27	3.18	3.27	26	5.28	5.51	5.43
11	GND	GND	GND	27	GND	GND	GND
12	0.073	0.096	0.131	28	3.18	1.85	2.77
13	7.97	7.97	7.96	29	11.92	11.92	11.92
14	8.01	7.95	7.91	30	4.94	4.94	4.94
15	2.81	2.91	2.90	31	4.94	4.94	4.94
16	3.23	3.21	3.20	32	5.05	5.05	5.05

Unit: Vrms

13-3 Main Part Schematic Diagram

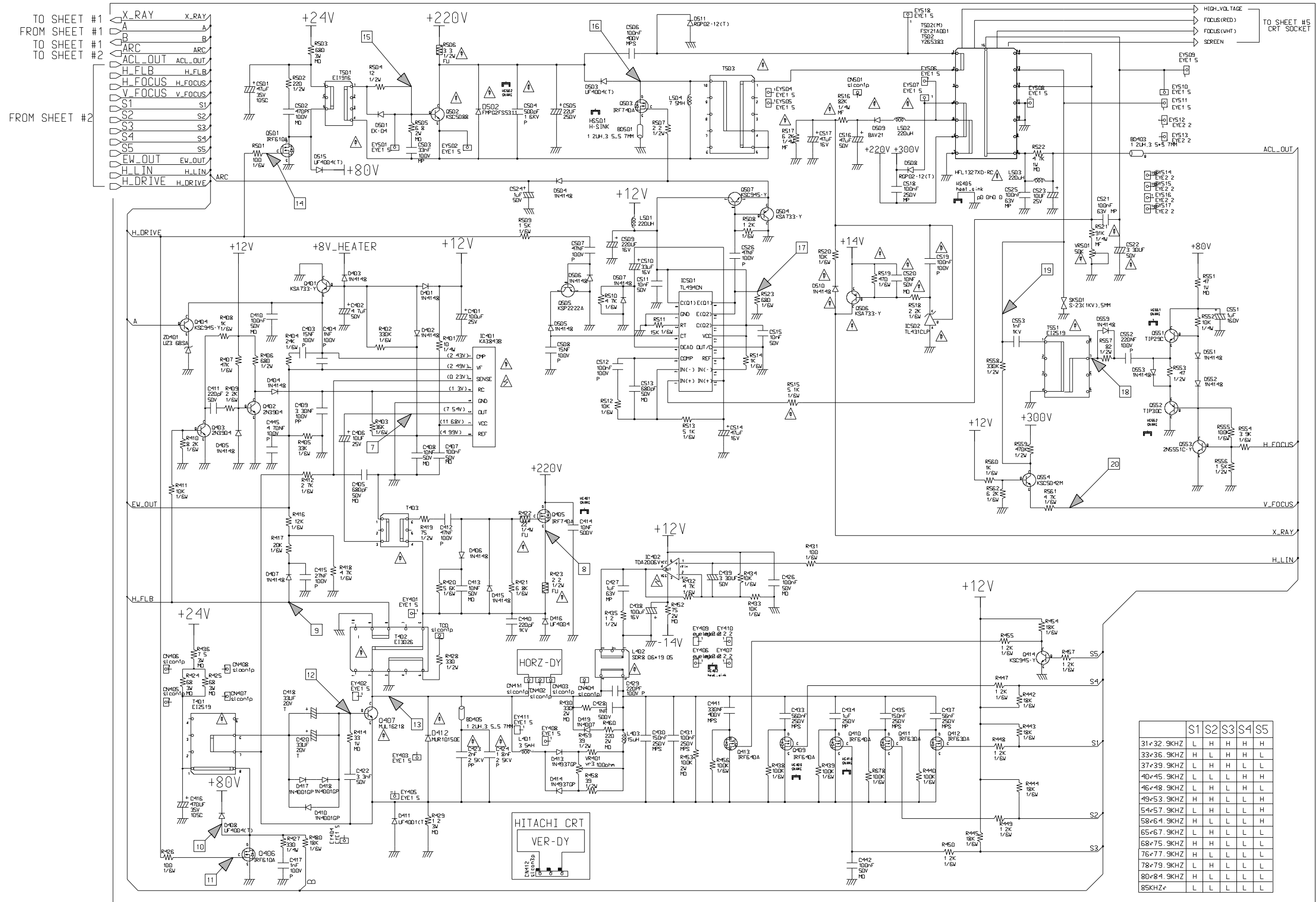


Table 13-3. IC401 (KA3843B)

pin #	MODES		
	31 kHz	69 kHz	96 kHz
1	3.027	2.621	2.57
2	2.493	2.494	2.495
3	0.709	0.439	0.278
4	1.535	1.472	1.548
5	0	0	0
6	2.070	3.71	5.33
7	11.73	11.74	11.74
8	4.96	4.96	4.96

Unit: Vrms

Table 13-4. IC402 (TDA2006V)

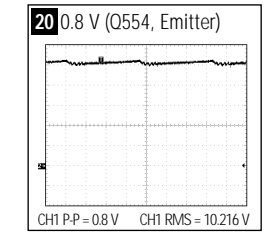
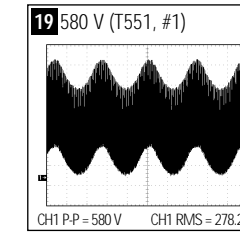
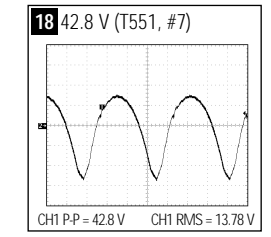
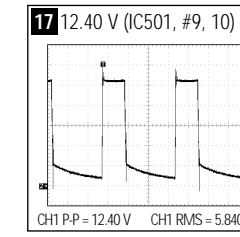
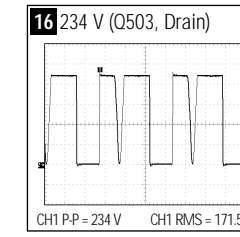
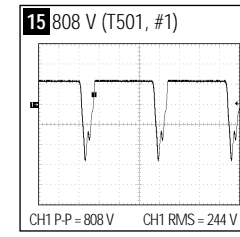
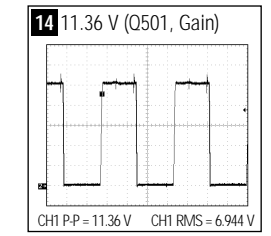
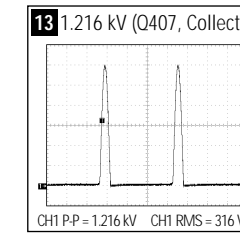
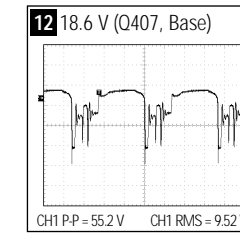
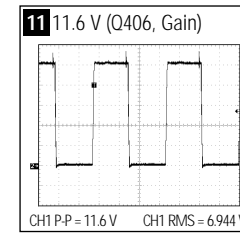
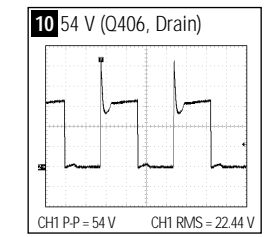
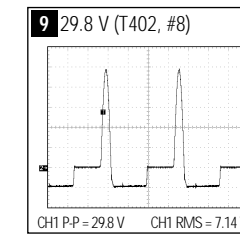
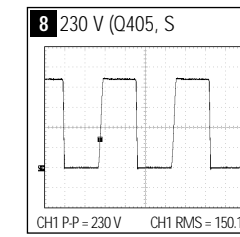
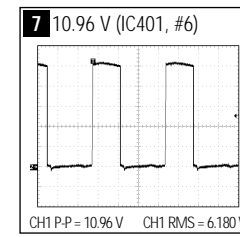
pin #	MODES		
	31 kHz	69 kHz	96 kHz
1	3.05	3.88	4.25
2	3.05	3.89	4.25
3	-10.79	-11.97	-11.93
4	0.286	1.916	2.631
5	11.93	11.92	11.92

Unit: Vrms

Table 13-5. IC501 (TL494CN)

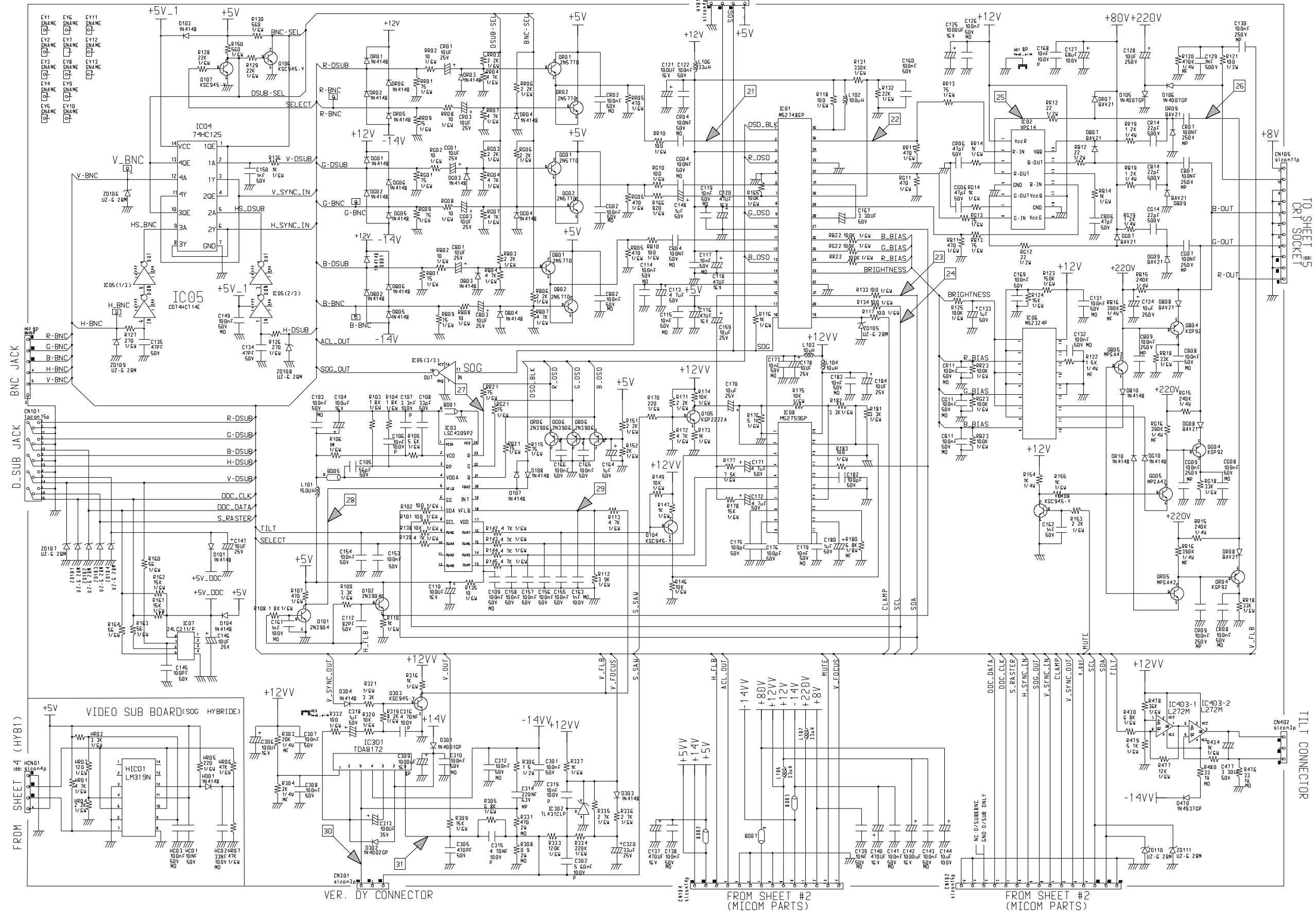
pin #	MODES		
	31 kHz	69 kHz	96 kHz
1	4.96	4.95	4.93
2	4.96	4.96	4.96
3	1.515	1.325	1.306
4	0	0	0
5	0.656	0.601	0.611
6	3.63	3.71	3.75
7	0	0	0
8	11.88	11.86	11.85
9	2.634	4.07	4.46
10	2.634	4.07	4.46
11	11.89	11.86	11.85
12	11.89	11.86	11.85
13	0	0	0
14	4.96	4.96	4.96
15	11.88	11.86	11.85
16	4.96	4.96	4.96

Unit: Vrms



13-4 Video Part Schematic Diagram

TO SHEET #4 (HCN01 : VIDEO SUB BOARD)



TO SHEET #5
CRT SOCKET

TILT CONNECTOR

Table 13-6. IC301 (TDA8172)

pin #	MODES		
	31 kHz	69 kHz	96 kHz
1	1.088	1.087	1.089
2	13.17	13.36	13.28
3	-13.31	-13.31	-13.31
4	-13.65	-13.88	-13.89
5	0.361	0	0.28
6	12.77	13.11	12.99
7	1.087	1.087	1.087

Unit: Vrms

Table 13-7. IC403 (L272M)

pin #	MODES		
	31 kHz	69 kHz	96 kHz
1	1.059	1.046	1.053
2	11.9	11.9	11.9
3	11.4	11.4	11.42
4	-13.06	-13.06	-13.06
5	0	0	0
6	1.065	1.051	1.057
7	1.487	1.487	1.487
8	1.5	1.5	1.5

Unit: Vrms

Table 13-8. IC03 (LSC4309P2)

pin #	MODES			pin #	MODES		
	31 kHz	69 kHz	96 kHz		31 kHz	69 kHz	96 kHz
1	0.334	0.472	0.605	13	0	0	0
2	0.94	1.192	1.557	14	0	0	0
3	0.938	1.19	1.554	15	2.159	2.107	2.062
4	5.02	5.01	5.0	16	4.25	4.16	4.07
5	4.67	4.37	4.19	17	4.99	4.94	4.91
6	4.95	4.94	4.94	18	4.75	4.70	4.71
7	4.94	4.94	4.94	19	0	0	0
8	4.94	4.94	4.94	20	0	0	0
9	0.672	0.668	0.661	21	0.3	0.3	0.3
10	0	0	0	22	0.2	0.2	0.2
11	-	-	-	23	0.2	0.2	0.2
12	-	-	-	24	GND	GND	GND

Unit: Vrms

Table 13-9. IC06 (M52324P)

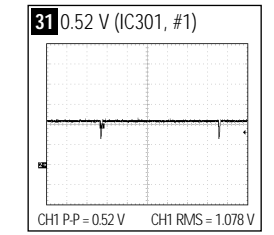
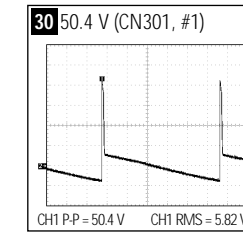
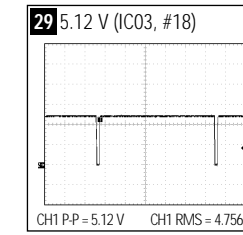
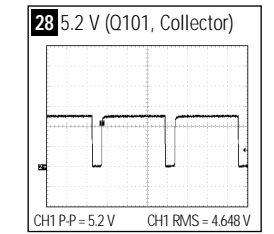
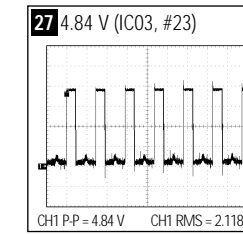
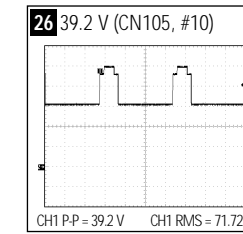
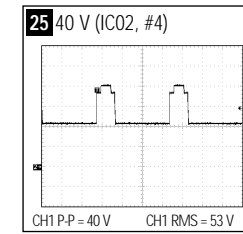
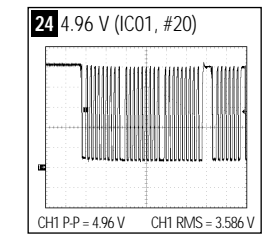
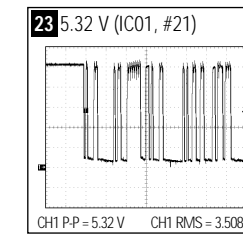
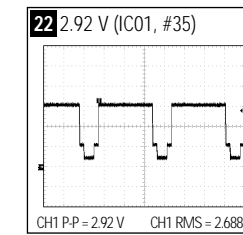
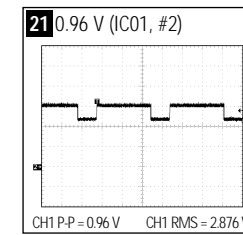
pin #	MODES		
	31 kHz	69 kHz	96 kHz
1	0.51	0.51	0.51
2	1.08	1.08	1.08
3	1.896	1.896	1.896
4	0.51	0.51	0.51
5	1.08	1.08	1.08
6	2.21	2.21	2.21
7	0.51	0.51	0.51
8	1.08	1.08	1.08
9	2.21	2.21	2.21
10	11.2	11.2	11.2
11	11.2	11.2	11.2
12	11.2	11.2	11.2
13	GND	GND	GND
14	GND	GND	GND
15	-	-	-
16	2.97	2.97	2.97
17	4.84	4.84	4.84
18	11.8	11.8	11.8

Unit: Vrms

Table 13-10. IC08 (M52759SP)

pin #	MODES		
	31 kHz	69 kHz	96 kHz
1	GND	GND	GND
2	2.333	2.333	2.333
3	2.192	2.175	2.159
4	4.93	4.93	4.93
5	0	0	0
6	0	0	0
7	7.54	7.54	7.54
8	6.0	6.0	6.0
9	6.0	5.94	5.91
10	11.87	11.87	11.87
11	2.701	2.784	2.806
12	3.85	3.96	4.04
13	1.231	1.231	1.231
14	6.91	6.91	6.91
15	GND	GND	GND
16	0.054	0.065	0.080
17	0.304	0.651	0.910
18	GND	GND	GND
19	6.08	6.04	6.0
20	11.89	11.89	11.89

Unit: Vrms



13-5 CRT Socket & Control Part Schematic Diagram

