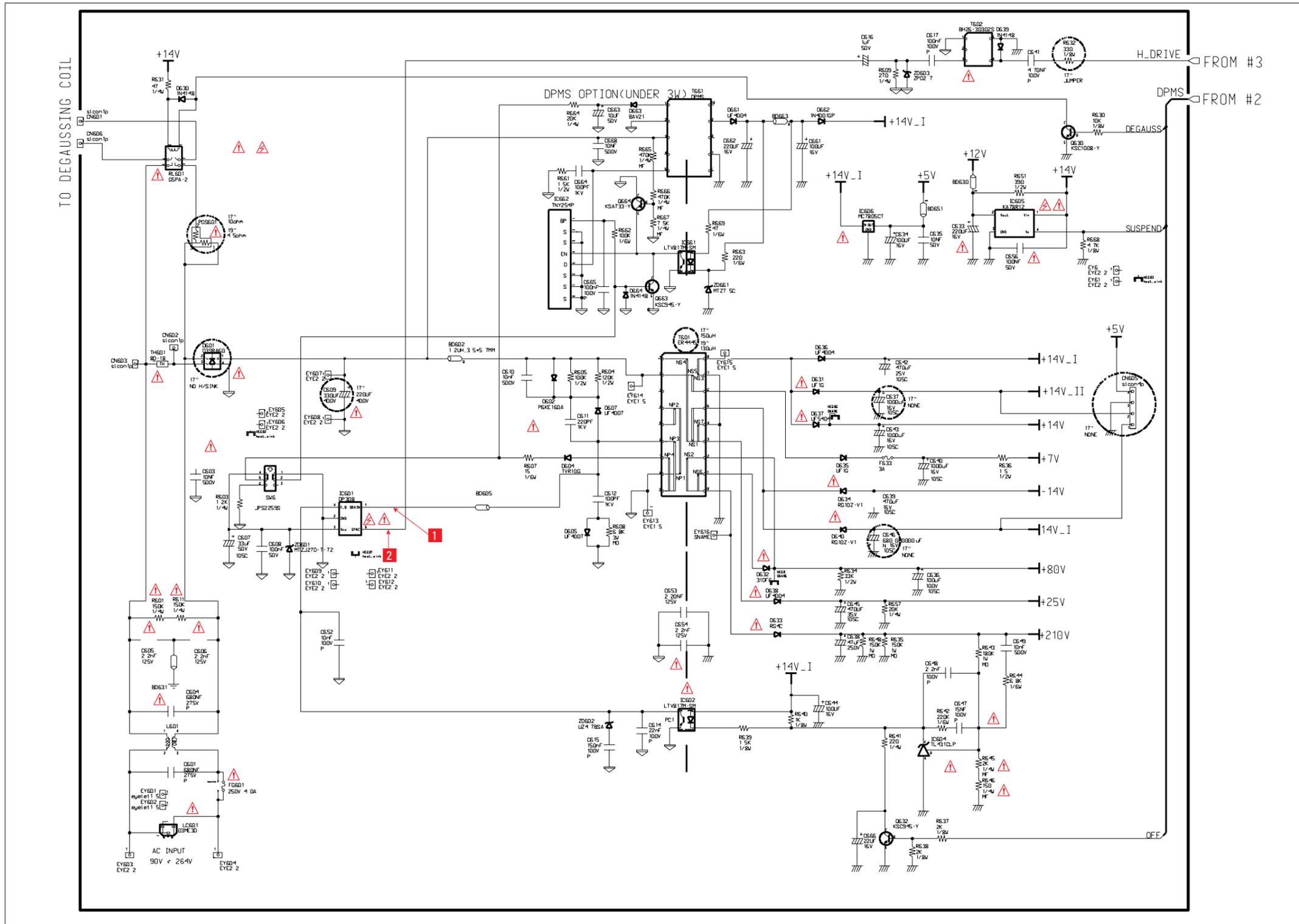


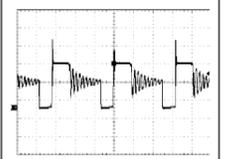
10 Schematic Diagrams

10-1 Power Part Schematic Diagram

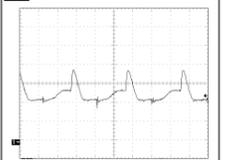


WAVEFORMS

1 368 V (IC601, #1)



2 368 V (IC601, #1)



S-CORRECTION

17"

H-FREQUENCY	S1	S2	S3	S4	S5
~ 32.9 kHz	H	H	H	H	H
33.0 kHz ~ 34.9 kHz	H	L	H	H	H
35.0 kHz ~ 36.9 kHz	H	H	H	L	H
37.0 kHz ~ 39.9 kHz	H	H	H	L	L
40.0 kHz ~ 45.9 kHz	H	L	L	H	H
46.0 kHz ~ 50.9 kHz	L	L	L	H	L
51.0 kHz ~ 54.9 kHz	H	H	L	L	H
55.0 kHz ~ 60.9 kHz	H	L	L	L	H
61.0 kHz ~ 64.9 kHz	H	H	L	L	L
65.0 kHz ~ 67.9 kHz	H	H	L	L	L
68.0 kHz ~ 69.9 kHz	H	H	L	L	L
70.0 kHz ~ 75.9 kHz	H	H	L	L	L
76.0 kHz ~ 77.9 kHz	L	H	L	L	L
78.0 kHz ~ 80.9 kHz	H	L	L	L	L
81.0 kHz ~ 84.9 kHz	H	L	L	L	L
85.0 kHz ~ 91.9 kHz	L	L	L	L	L
92.0 kHz ~ 94.9 kHz	L	L	L	L	L
95.0 kHz ~ 99.9 kHz	L	L	L	L	L
100.0 kHz ~ 112.9 kHz	L	L	L	L	L

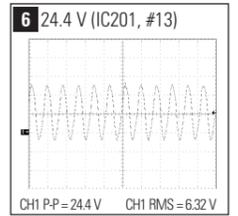
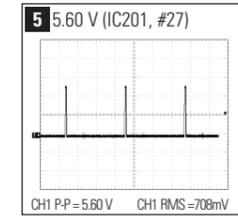
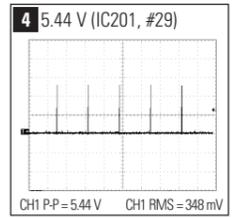
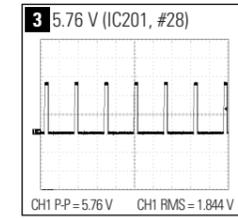
19"

H-FREQUENCY	S1	S2	S3	S4	S5
~ 32.9 kHz	H	H	H	H	H
33.0 kHz ~ 34.9 kHz	H	H	H	H	H
35.0 kHz ~ 36.9 kHz	L	L	H	L	H
37.0 kHz ~ 39.9 kHz	L	H	H	L	H
40.0 kHz ~ 45.9 kHz	L	H	L	H	H
46.0 kHz ~ 50.9 kHz	H	L	L	H	L
51.0 kHz ~ 56.9 kHz	L	L	L	H	L
57.0 kHz ~ 60.9 kHz	H	H	L	L	H
61.0 kHz ~ 64.9 kHz	H	L	L	L	H
65.0 kHz ~ 67.9 kHz	L	L	L	L	H
68.0 kHz ~ 71.9 kHz	L	L	L	L	H
72.0 kHz ~ 75.9 kHz	H	H	L	L	L
76.0 kHz ~ 77.9 kHz	L	H	L	L	L
78.0 kHz ~ 80.9 kHz	L	H	L	L	L
81.0 kHz ~ 84.9 kHz	L	H	L	L	L
85.0 kHz ~ 91.9 kHz	H	L	L	L	L
92.0 kHz ~ 94.9 kHz	H	L	L	L	L
95.0 kHz ~ 99.9 kHz	L	L	L	L	L
100.0 kHz ~ 112.9 kHz	L	L	L	L	L

Table 10-1. IC201 (KSC88C6232N)

pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	0	4.77	4.77	22	3.49	3.01	2.8
2	0	0	0	23	3.38	3.24	3.24
3	0	4.06	0	24	0	0	0
4	0	4.05	4.05	25	3.61	3.46	3.4
5	0	4.03	4.03	26	3.92	3.15	2.93
6	0	4.05	4.05	27	0	0.72	0.82
7	0	0	4.06	28	1.71	1.32	1.52
8	0	0	0	29	3.8	0.38	0.64
9	4.72	0	4.7	30	4.2	0.39	0.36
10	0	0	0	31	4.53	1.3	1.49
11	4.79	4.78	4.78	32	4.78	4.72	4.74
12	GND	GND	GND	33	GND	GND	GND
13	1.41	1.42	1.41	34	4.26	4.78	4.77
14	1.93	1.93	1.94	35	4.74	4.79	4.78
15	GND	GND	GND	36	4.26	4.78	4.77
16	3.75	2.74	2.8	37	0	0	0
17	3.68	4.27	4.27	38	0	0	0
18	4.8	4.78	4.79	39	0	0	0
19	4.8	4.8	4.79	40	0	0	0
20	3.24	2.69	2.96	41	4.74	4.73	4.78
21	3.28	3.42	3.45	42	4.8	4.74	4.74

Unit: Vrms



10-3 H/V Process Part Schematic Diagram

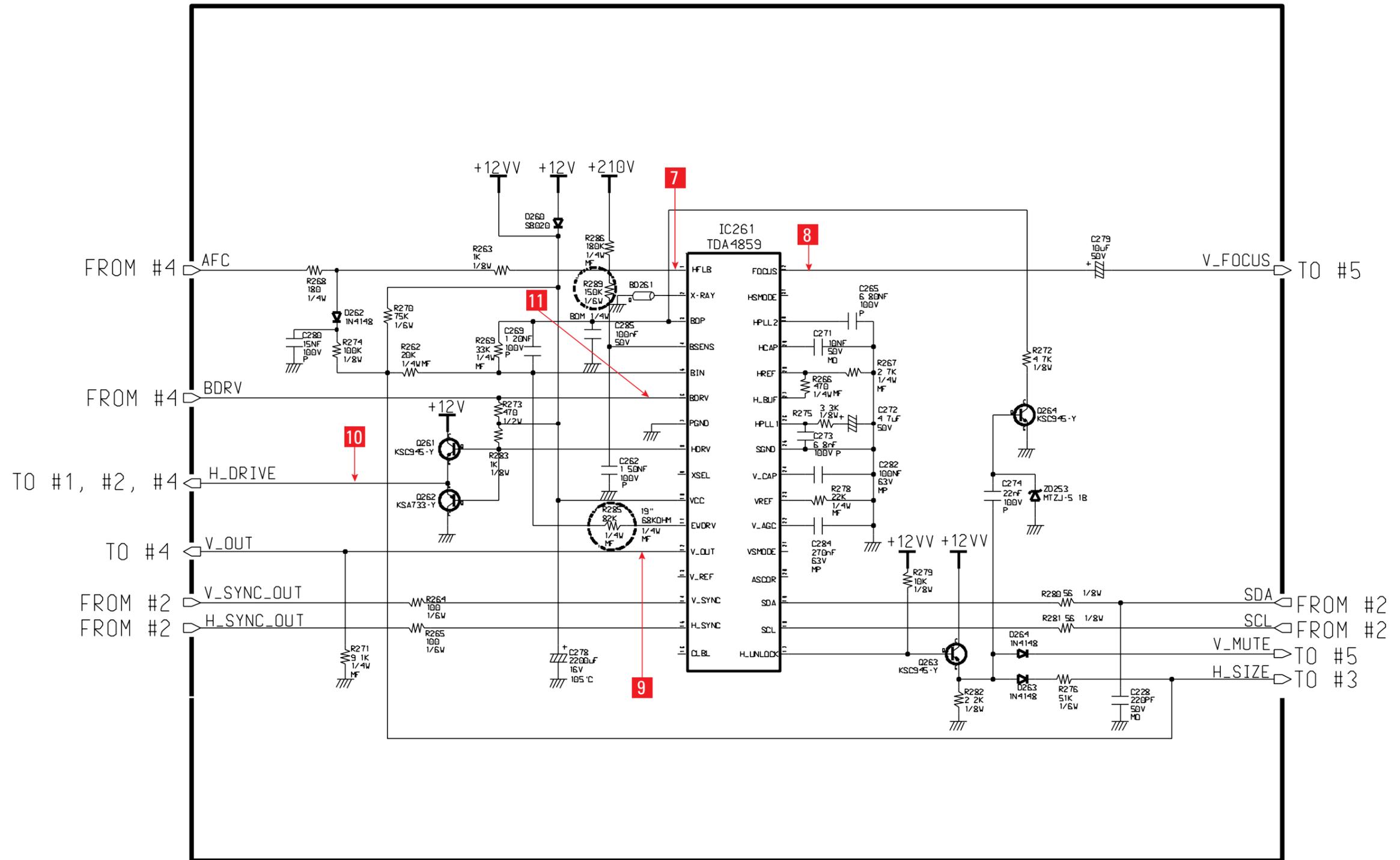


Table 10-2. IC251 (TDA4859)

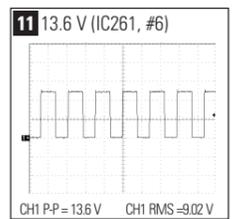
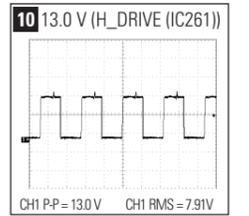
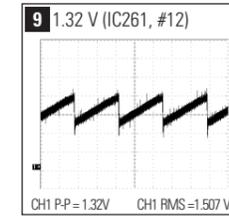
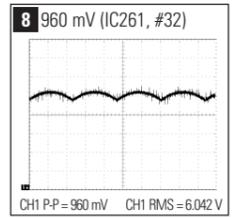
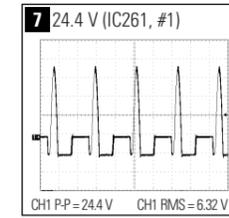
pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	1.3	1.92	2.21	17	0.23	0.25	0.24
2	0	0	0	18	4.6	4.7	4.69
3	3.4	3.37	3.39	19	4.73	4.7	4.7
4	1.33	1.82	1.92	20	NC	NC	NC
5	2.3	2.31	2.28	21	NC	NC	NC
6	10.48	9.31	7.7	22	3.02	2.52	2.52
7	GND	GND	GND	23	2.84	2.84	2.84
8	8.34	8.75	8.35	24	2.75	2.55	2.66
9	NC	NC	NC	25	GND	GND	GND
10	10	10.76	11.63	26	3.74	3.12	2.71
11	3.03	3.02	3.02	27	2.34	1.76	1.61
12	1.31	1.3	1.3	28	2.35	2.36	2.36
13	4.03	5.77	5.77	29	4.38	4.4	4.49
14	0.36	0.99	0.34	30	4.71	4.98	5.17
15	1.76	1.32	1.51	31	NC	NC	NC
16	0.78	1.1	1.26	32	5.89	5.83	6.07

Unit: Vrms

Table 10-2. IC250 (M52759SP)

pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	GND	GND	GND	11	2.43	2.55	2.57
2	NC	NC	NC	12	3.6	3.75	3.81
3	NC	NC	NC	13	0.96	1.21	0.98
4	NC	NC	NC	14	6.67	6.73	6.72
5	NC	NC	NC	15	2.86	1.93	2.04
6	2.36	2.38	2.29	16	0.53	0.42	0.47
7	5.55	5.56	5.67	17	3.68	4	3.81
8	5.85	5.81	5.82	18	GND	GND	GND
9	5.82	5.75	5.75	19	5.73	5.74	5.73
10	10.52	11.89	11.9	20	NC	NC	NC

Unit: Vrms



10-4 HORI & VERTICAL Part Schematic Diagram

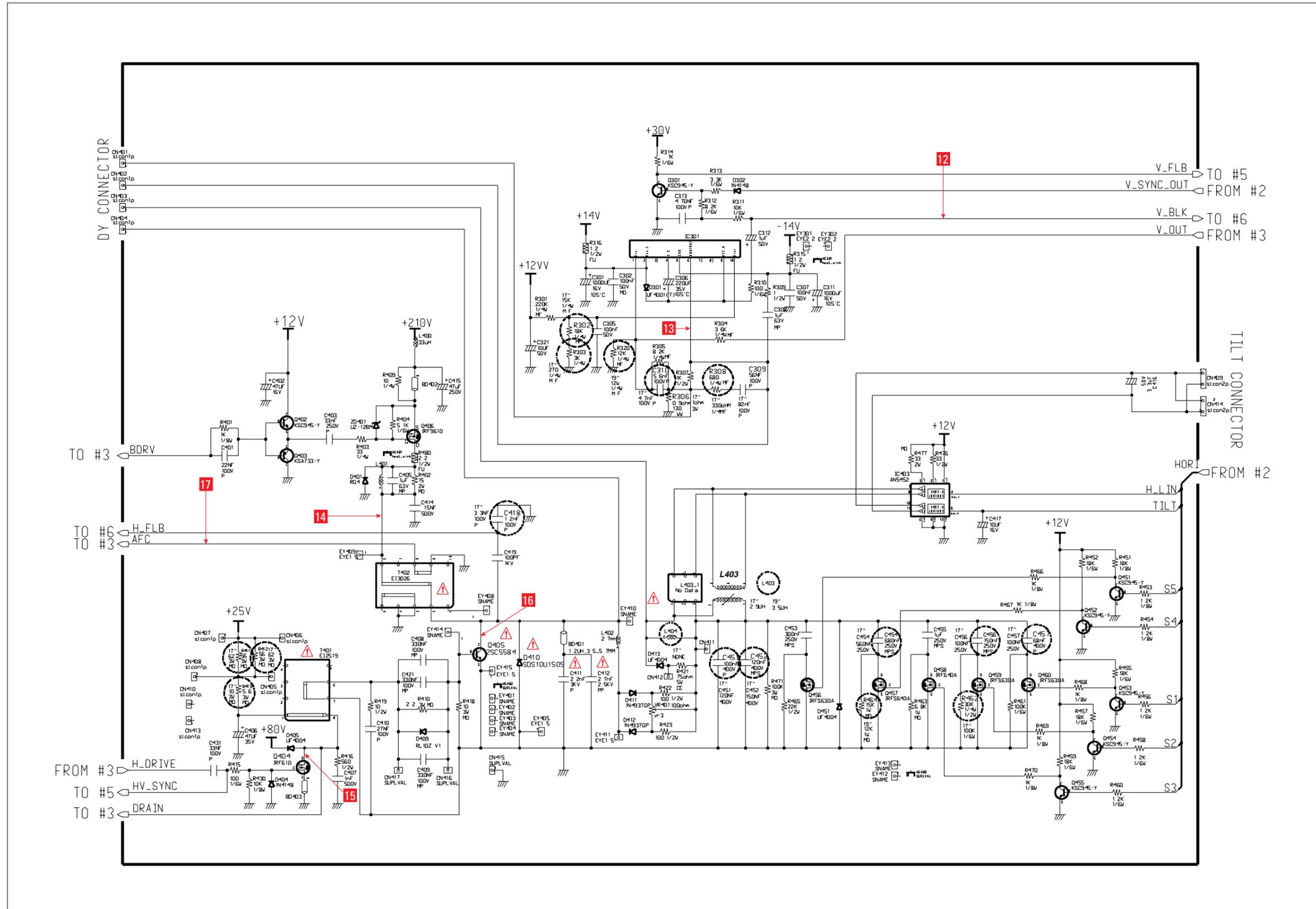


Table 10-3. IC301 (KA2142)

pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	1.01	1.01	1.01
2	13.69	13.4	13.59
3	NC	NC	NC
4	14.78	14.8	14.78
5	GND	GND	GND
6	7.24	7.64	7.6
7	NC	NC	NC
8	NC	NC	NC
9	12.62	13.08	13.16
10	0.84	0.83	0.83

Unit: Vrms

Table 10-5. IC403 (AN5452)

pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	11.93	11.93	11.96
2	12	11.93	11.93
3	11.54	9.72	8.81
4	2.36	1.72	1.49
5	2.35	2.33	2.29
6	GND	GND	GND
7	4.34	3.61	3.35
8	4.29	4.97	5.23
9	GND	GND	GND
10	4.35	4.33	4.33
11	4.32	4.31	4.31
12	GND	GND	GND

Unit: Vrms

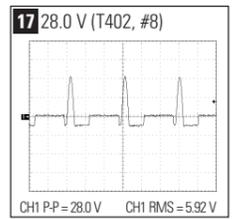
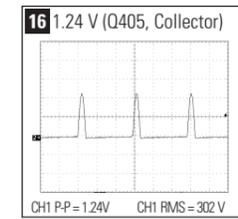
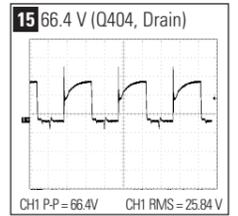
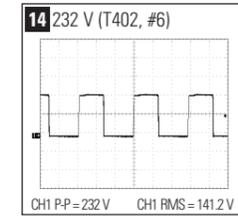
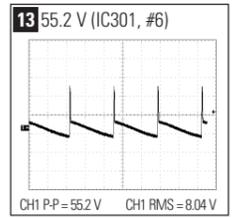
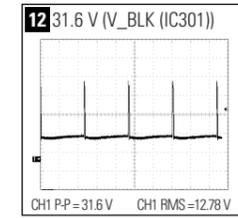
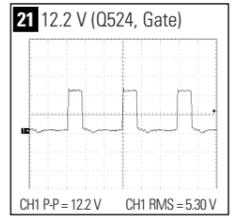
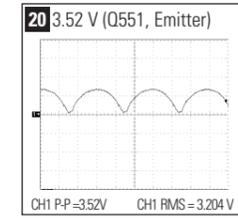
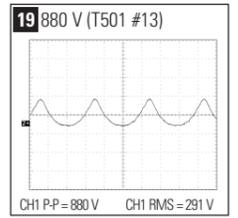
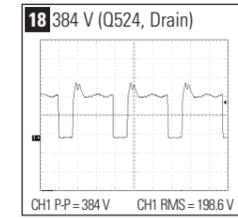


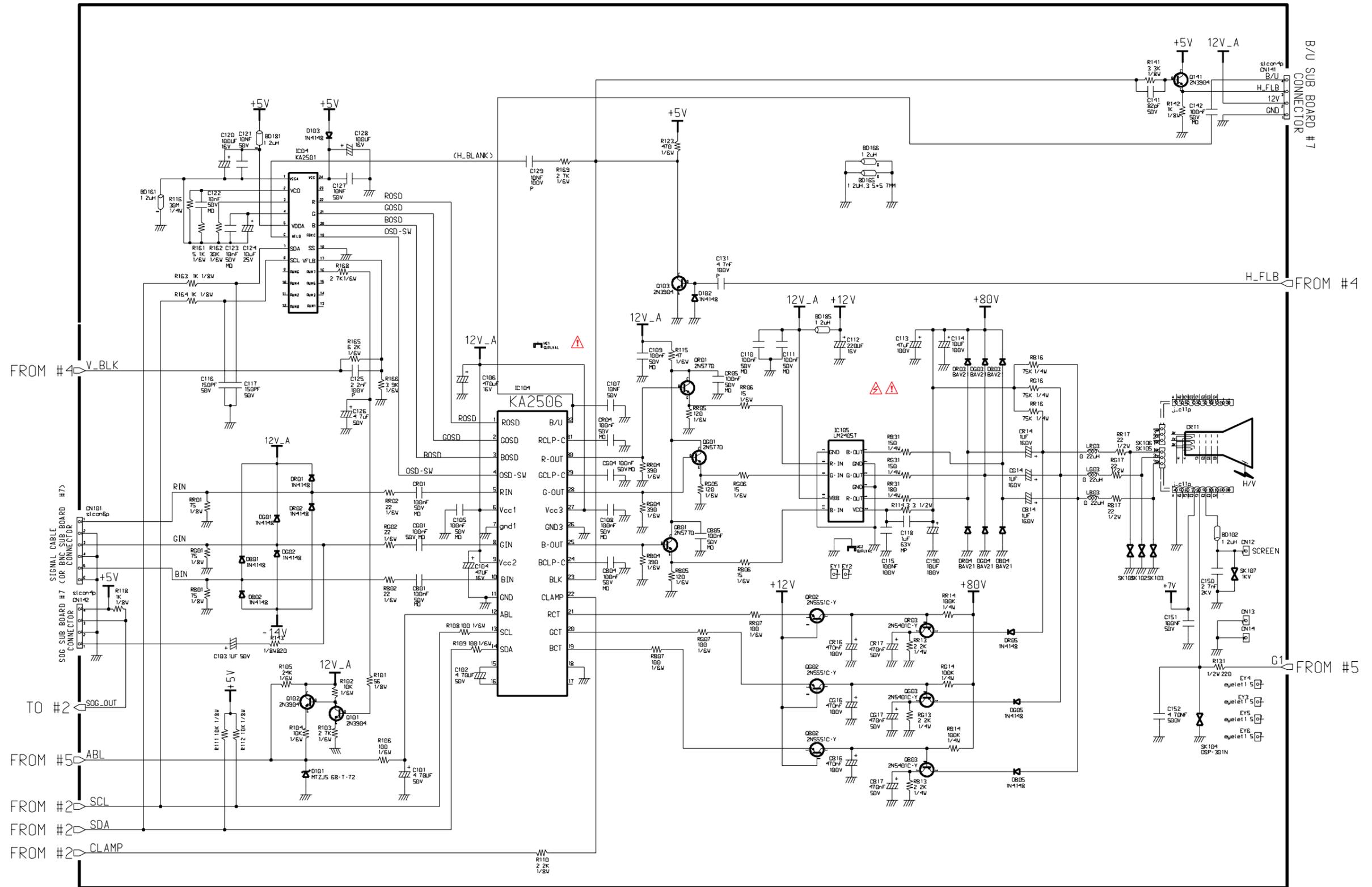
Table 10-6. IC501 (TL494CN)

Pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	4.7	4.67	4.66
2	4.66	4.67	4.66
3	1.71	1.49	1.14
4	0.14	0.14	0.14
5	0.99	0.59	0.61
6	3.15	3.15	3.15
7	GND	GND	GND
8	11.88	11.85	11.85
9	4.65	5.48	6.35
10	4.65	5.51	6.3
11	11.83	11.83	11.85
12	11.83	11.83	11.85
13	GND	GND	GND
14	4.69	4.72	4.7
15	9	9	9
16	4.69	4.72	4.7

Unit: Vrms



10-6 Video Parts Schematic Diagram (17")



10-7 Video Parts Schematic Diagram (19")

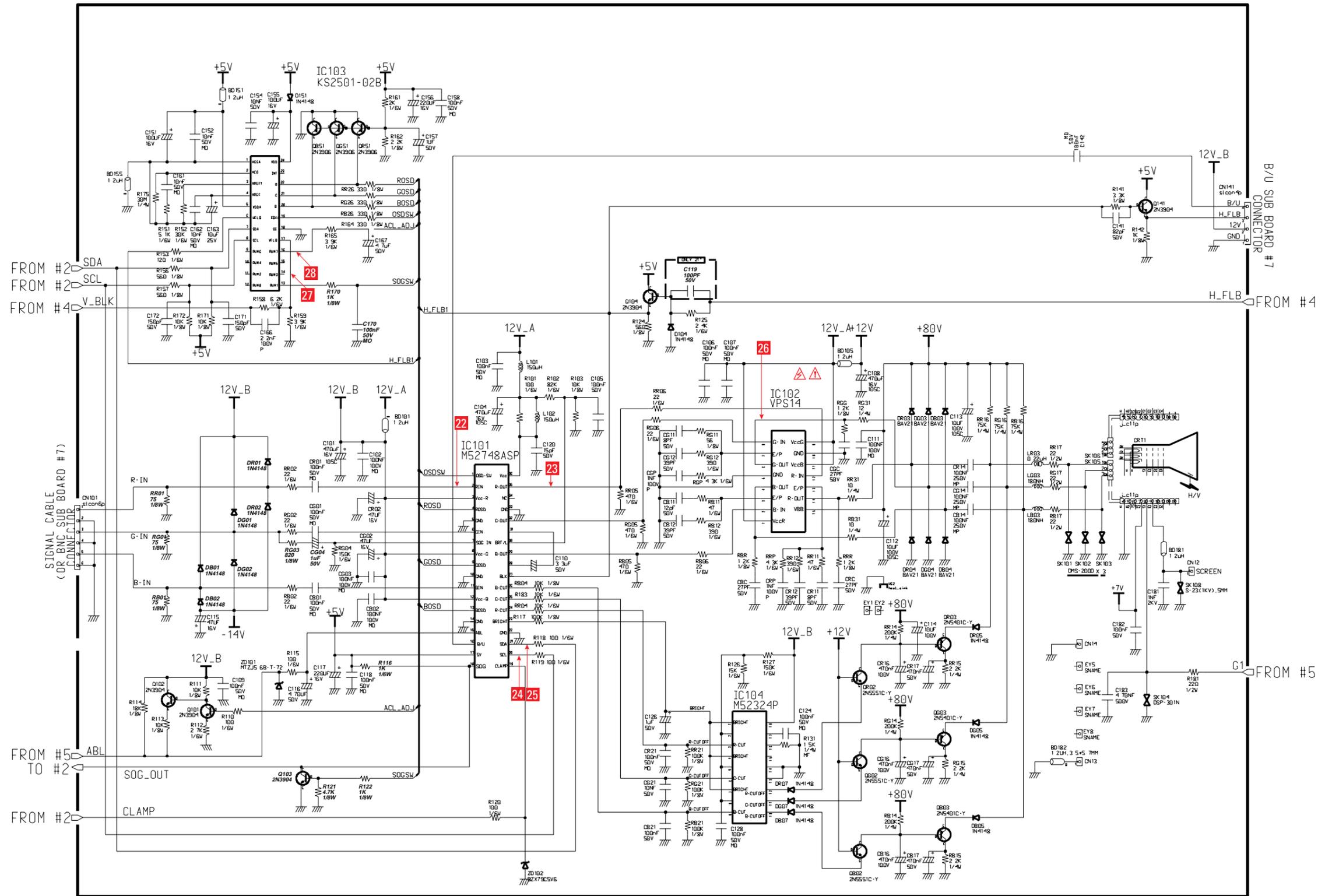


Table 10-7. IC101 (M52748ASP)

pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	0	0	0	19	0.72	0.68	0.86
2	2.7	2.66	2.66	20	4.7	4.76	4.77
3	11.83	11.82	11.82	21	4.74	4.69	4.72
4	0	0	0	22	GND	GND	GND
5	GND	GND	GND	23	1.12	1.12	1.12
6	2.75	2.66	2.68	24	2.1	1.98	2.29
7	2.31	2.29	2.28	25	1.95	2.14	2.14
8	11.82	11.82	11.84	26	2.18	2.37	2.37
9	0	0	0	27	1.21	1.72	2.07
10	GND	GND	GND	28	4.48	4.45	4.44
11	2.82	2.68	2.68	29	2.85	3.12	3.01
12	11.82	11.81	11.83	30	1.38	1.38	1.38
13	0	0	0	31	4.2	4.18	4.16
14	GND	GND	GND	32	3.06	3.13	3.08
15	3.61	3.65	3.62	33	GND	GND	GND
16	6.18	6.19	6.2	34	NC	NC	NC
17	4.73	4.71	4.69	35	3.2	3.2	3.12
18	0	0	0	36	11.22	11.2	11.26

Unit: Vrms

Table 10-9. IC103 (KS2501)

pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	0	0	0	13	3.97	3.9	3.87
2	1.54	1.64	2.13	14	3.33	3.28	3.2
3	1.19	1.19	1.19	15	3.44	3.38	3.31
4	1.19	1.19	1.19	16	2.57	2.47	2.38
5	4.72	4.7	4.69	17	0.74	0.84	0.88
6	1.68	1.69	2.01	18	GND	GND	GND
7	4.68	4.7	4.7	19	0	0	0
8	4.67	4.7	4.69	20	0	0	0
9	NC	NC	NC	21	0	0	0
10	NC	NC	NC	22	0	0	0
11	NC	NC	NC	23	NC	NC	NC
12	NC	NC	NC	24	3.98	3.91	3.87

Unit: Vrms

Table 10-8. IC102 (VPS14)

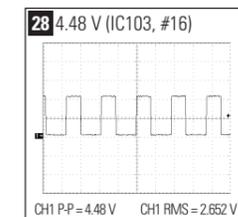
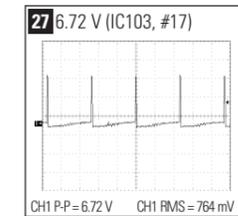
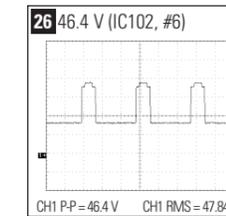
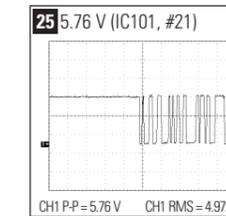
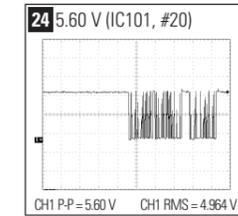
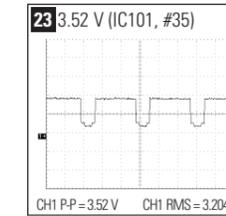
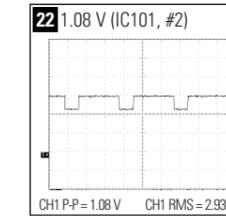
pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	1.1	1.1	1.1
2	1	1.08	1.08
3	1.88	2.27	2.27
4	1.1	1.1	1.1
5	1	1.08	1.08
6	1.74	2.14	2.14
7	1.1	1.1	1.1
8	1	1.08	1.08
9	1.95	2.11	2.12
10	10.73	10.8	10.77
11	10.73	10.8	10.77
12	10.73	10.8	10.77
13	GND	GND	GND
14	GND	GND	GND
15	NC	NC	NC
16	2.71	2.72	2.72
17	4.53	4.53	4.54
18	11.82	11.82	11.82

Unit: Vrms

Table 10-8. IC102 (VPS14)

pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	11.82	11.82	11.82
2	2.94	2.94	2.98
3	2.29	2.32	2.28
4	46.5	47.4	47.8
5	GND	GND	GND
6	46.4	47.1	49.2
7	2.4	2.36	2.33
8	3.02	3.09	2.94
9	11.8	11.8	11.8
10	GND	GND	GND
11	11.82	11.82	11.82
12	3.2	3.03	3.06
13	2.44	2.51	2.41
14	45.92	46.8	47.48
15	80.1	80.3	80.1

Unit: Vrms



10-8 Connector & Option Boards Parts Schematic Diagram

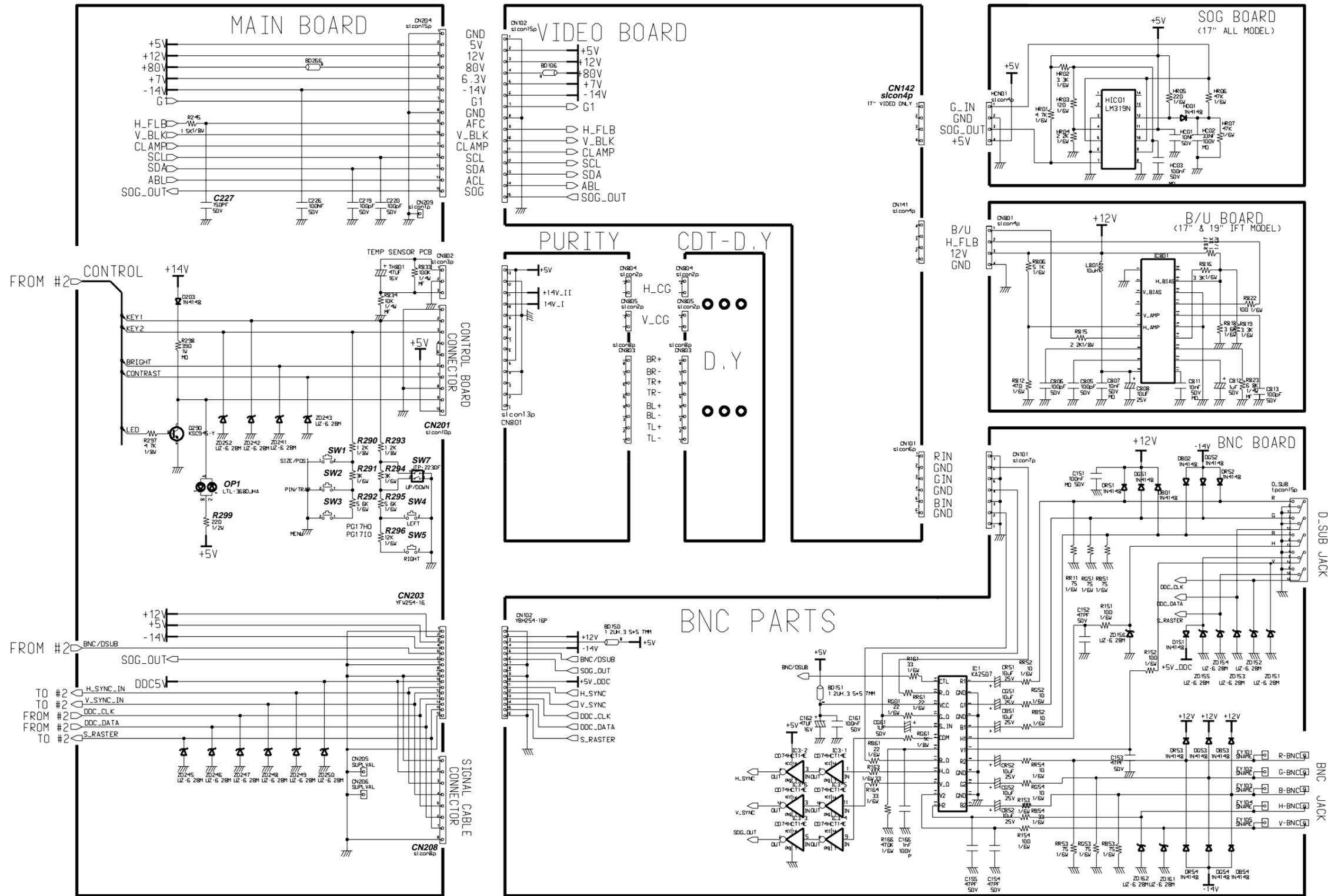


Table 10-7. IC1 (KA2507)

pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	3.25	3.23	3.22	13	0	0	0
2	GND	GND	GND	14	0	0	0
3	3.25	3.23	3.22	15	4.32	0.32	0.29
4	GND	GND	GND	16	3.97	1.15	1.32
5	3.25	3.23	3.22	17	1.75	1.74	1.73
6	4.12	1.21	1.45	18	3.55	3.36	3.37
7	4.35	0.37	0.34	19	4.2	4.17	4.71
8	0	0	0	20	3.09	3.03	3.03
9	GND	GND	GND	21	1.75	1.74	1.73
10	0	0	0	22	4.74	4.72	4.72
11	GND	GND	GND	23	1.75	1.74	1.73
12	0	0	0	24	0	0	0

Unit: Vrms

Table 10-1. IC801 (88P6232)

pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	NC	NC	NC	22	3.75	3.75	3.75
2	NC	NC	NC	23	3.33	3.33	3.33
3	NC	NC	NC	24	2.93	2.93	2.93
4	NC	NC	NC	25	3.42	3.42	3.42
5	NC	NC	NC	26	3.36	3.36	3.36
6	NC	NC	NC	27	NC	NC	NC
7	NC	NC	NC	28	NC	NC	NC
8	NC	NC	NC	29	NC	NC	NC
9	NC	NC	NC	30	NC	NC	NC
10	NC	NC	NC	31	NC	NC	NC
11	4.8	4.8	4.8	32	NC	NC	NC
12	GND	GND	GND	33	GND	GND	GND
13	1.8	1.75	1.7	34	4.8	4.8	4.8
14	1.71	1.61	1.77	35	NC	NC	NC
15	NC	NC	NC	36	3.13	3.13	3.13
16	4.7	4.73	4.72	37	4.63	4.5	4.42
17	4.74	4.72	4.72	38	2.44	2.44	2.44
18	4.78	4.78	4.76	39	NC	NC	NC
19	NC	NC	NC	40	NC	NC	NC
20	3.32	3.32	3.32	41	NC	NC	NC
21	3.32	3.32	3.32	42	NC	NC	NC

Unit: Vrms

Table 10-8. IC3 (74HCT14E)

pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	3.9	1.08	1.38
2	1.95	4.6	4.49
3	1.96	4.6	4.49
4	4.22	1.4	1.56
5	0	0	0
6	0	0	0
7	GND	GND	GND
8	0	0	0
9	4.21	4.19	4.16
10	0.37	4.7	4.7
11	4.32	0.32	0.28
12	4.73	0.39	0.35
13	0.37	4.71	4.7
14	4.74	4.74	4.74

Unit: Vrms

Table 10-8. IC802 (LA6510)

pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	0.1	0.1	0.1
2	0.12	0.1	0.1
3	1.33	1.33	1.32
4	1.33	1.32	1.32
5	14.56	14.56	14.56
6	1.33	1.32	1.32
7	1.3	1.32	1.31
8	0	0	0
9	0	0	0
10	13.9	13.9	13.9

Unit: Vrms

Table 10-8. IC803 (LA6510)

pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	4.04	4.04	4.04
2	4.26	4.26	4.26
3	1.14	1.14	1.14
4	1.32	1.32	1.32
5	14.56	14.56	14.56
6	1.32	1.32	1.32
7	1.32	1.32	1.32
8	0.16	0.16	0.16
9	0.12	0.12	0.12
10	13.8	13.8	13.8

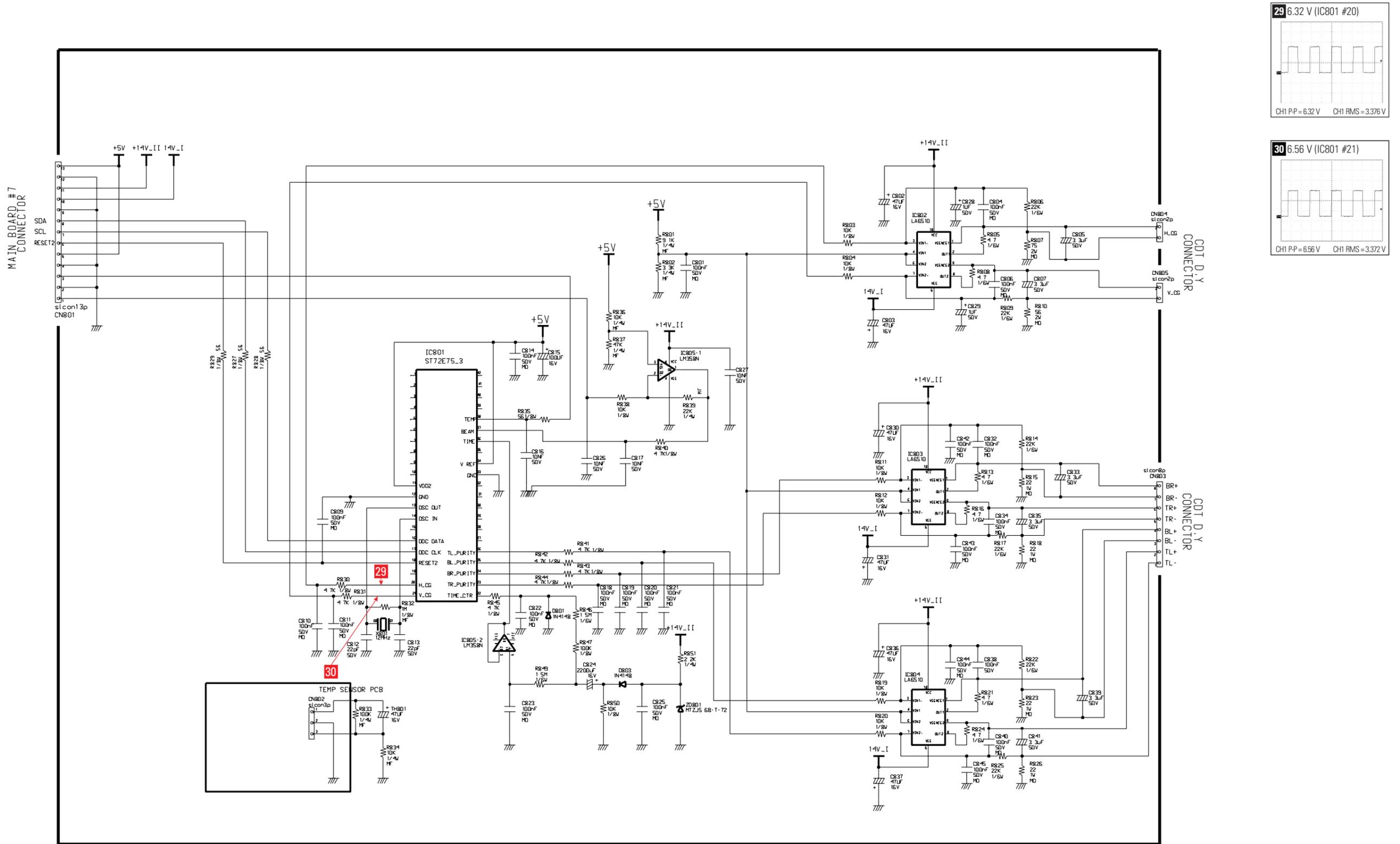
Unit: Vrms

Table 10-8. IC804 (LA6510)

pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	1.49	1.51	1.52
2	1.55	1.54	1.55
3	1.32	1.32	1.32
4	1.32	1.32	1.32
5	14.5	14.56	14.56
6	1.32	1.32	1.32
7	1.32	1.32	1.32
8	0.74	0.73	0.73
9	0.69	0.7	0.69
10	13.8	13.8	13.8

Unit: Vrms

10-9 PURITY Parts Schematic Diagram



Memo