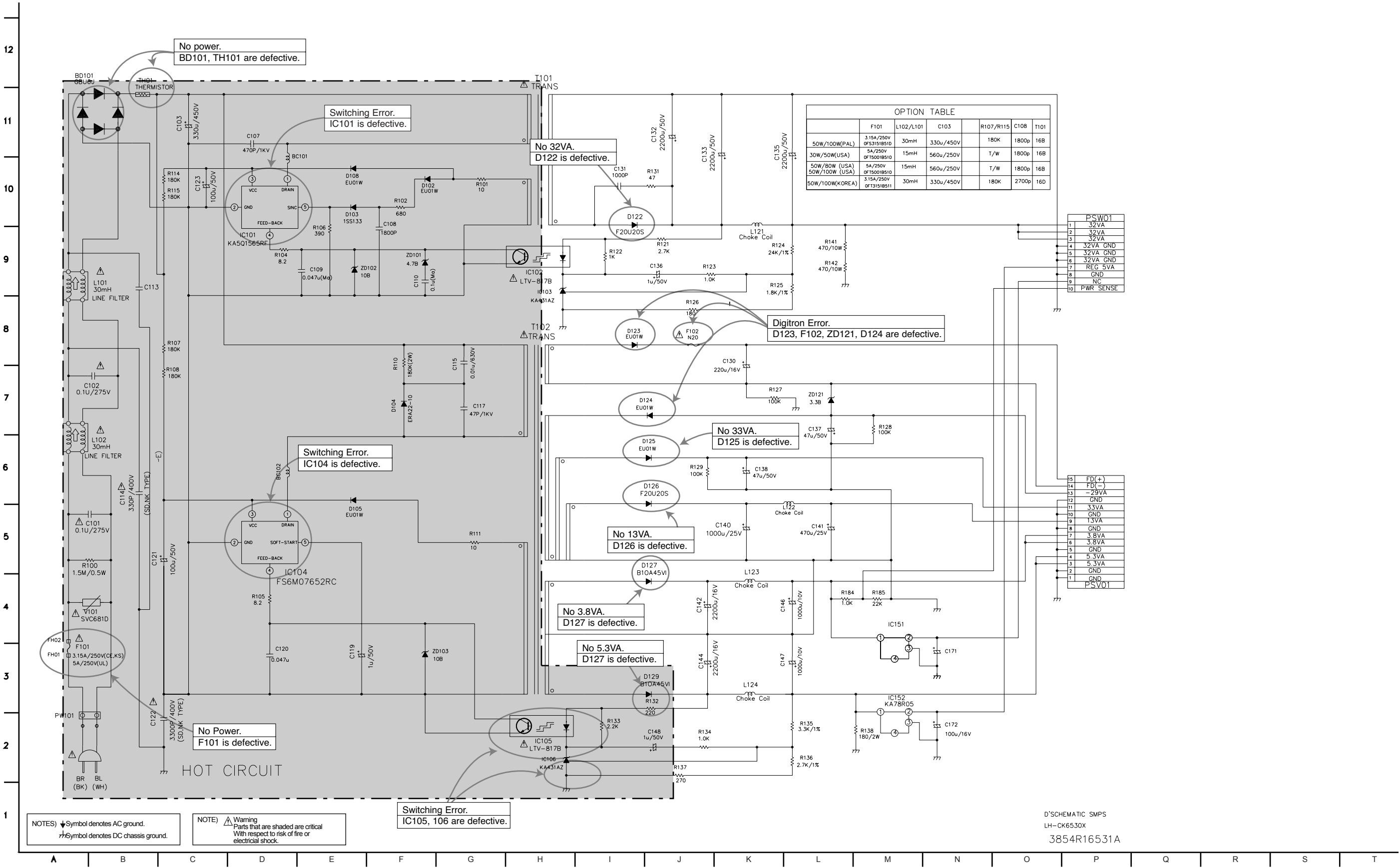
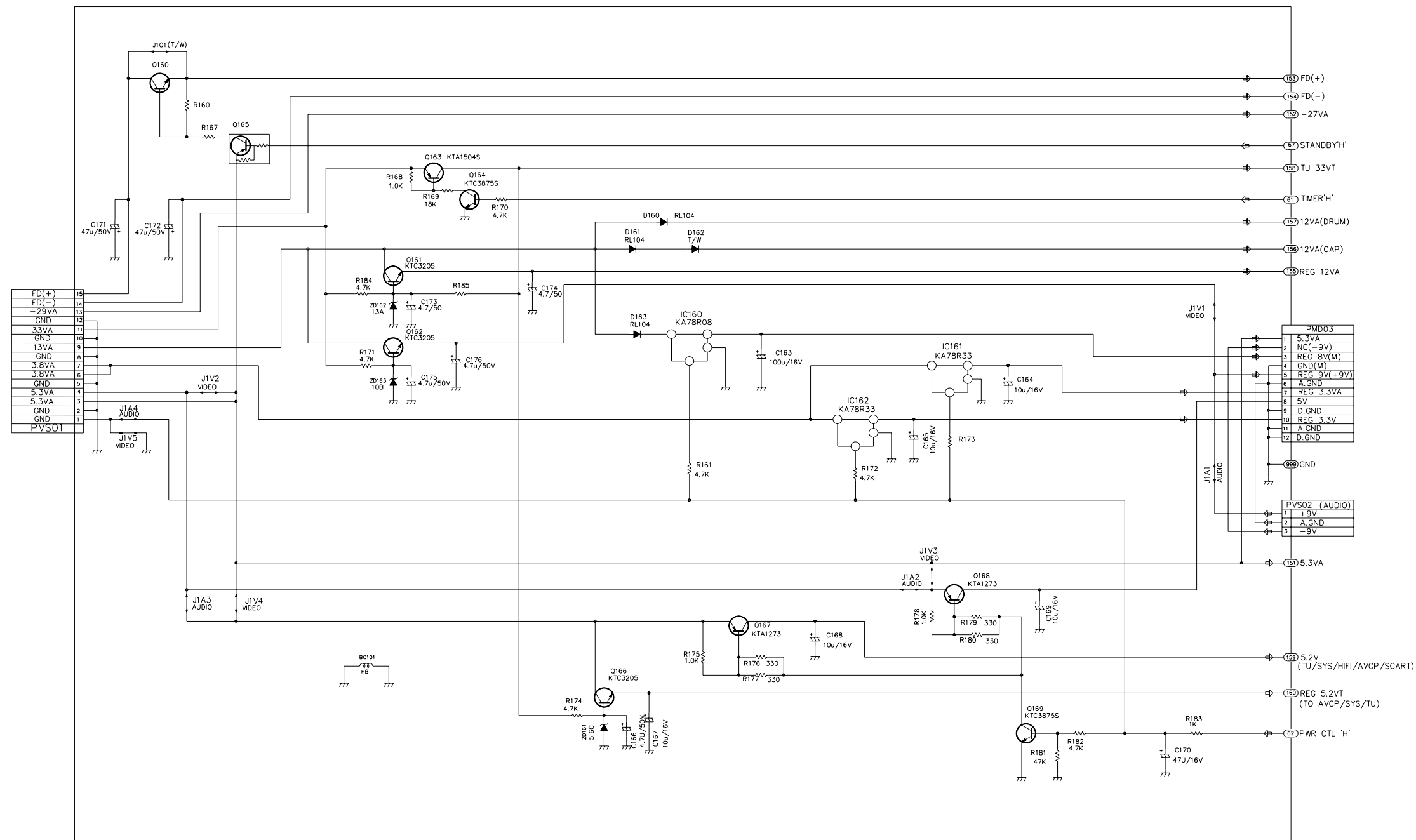


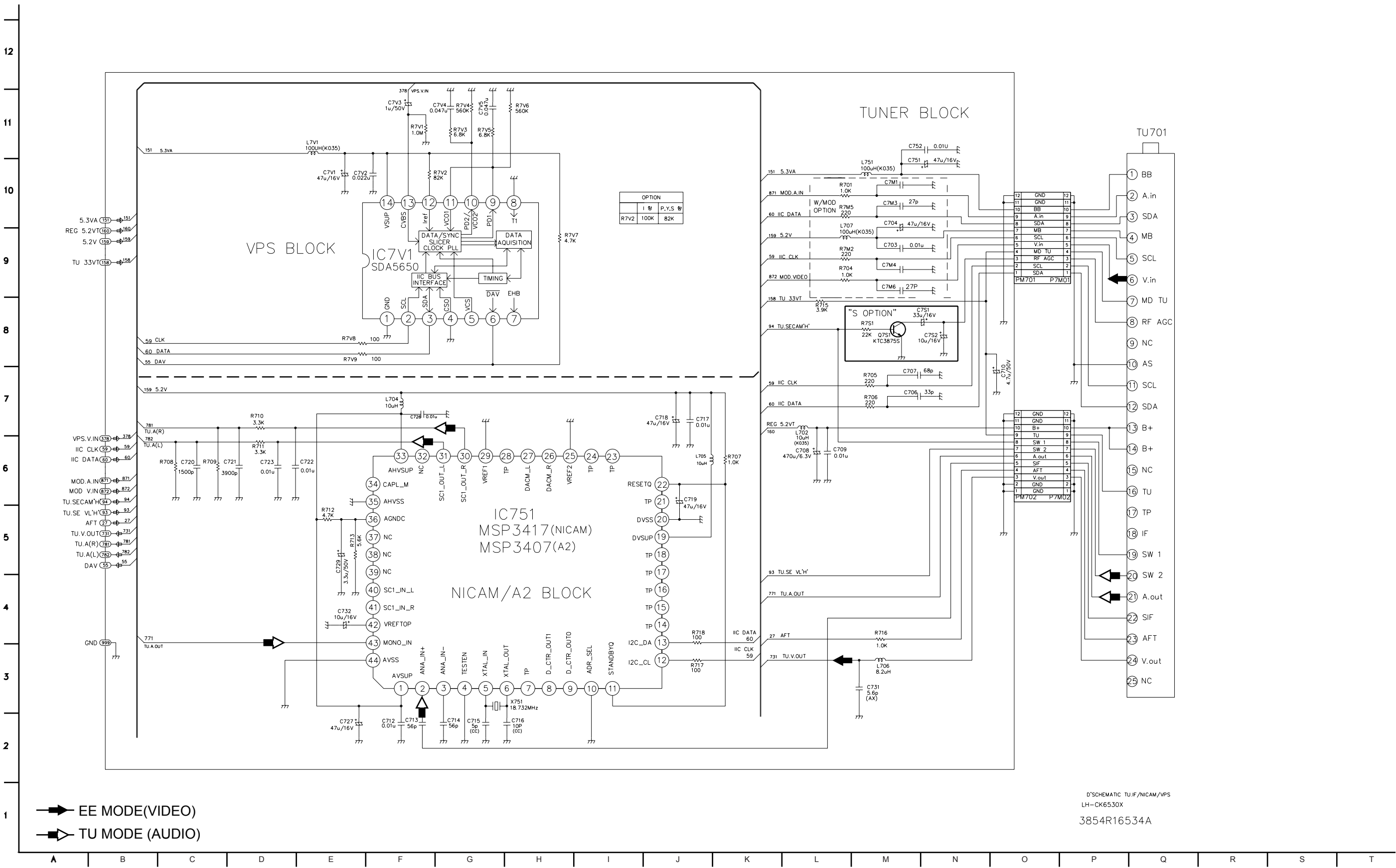


2. POWER(SMPS) CIRCUIT DIAGRAM 2



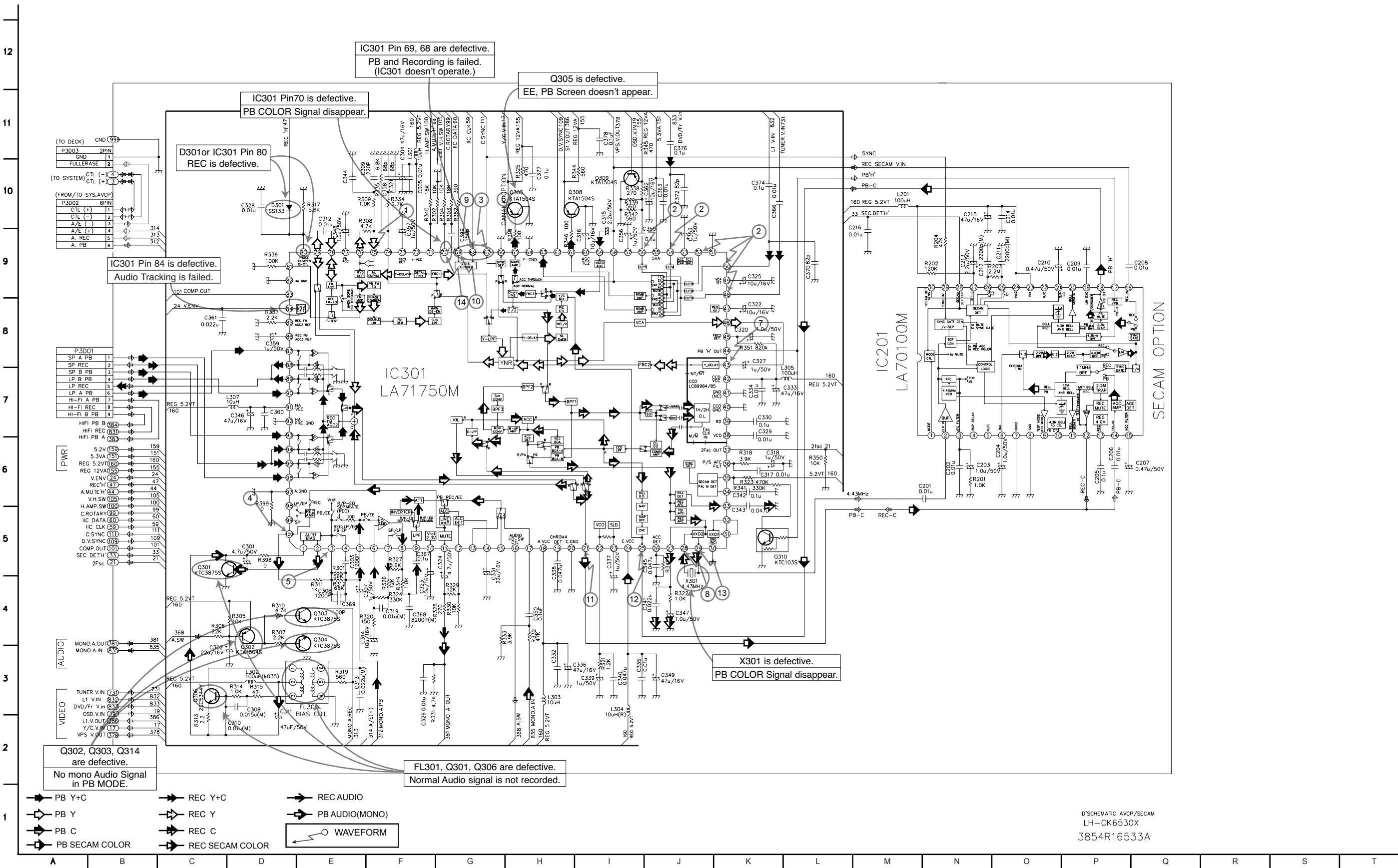
D'SCHEMATIC POWER
LH-CK6530X
3854R16535A

3. TU/IF, NICAM & A2 CIRCUIT DIAGRAM

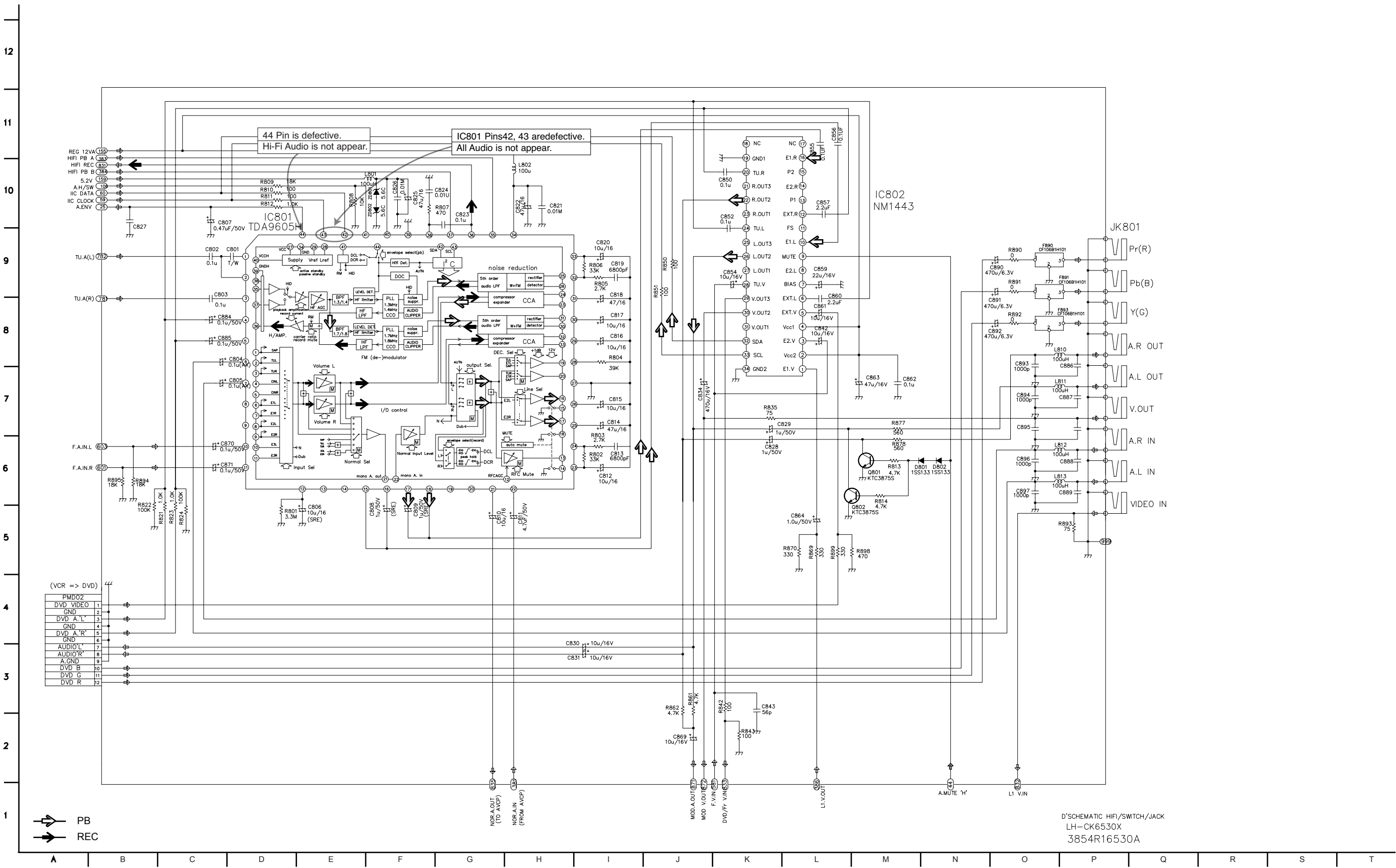


D'SCHEMATIC TU/IF/NICAM/VPS
LH-CK6530X
3854R16534A

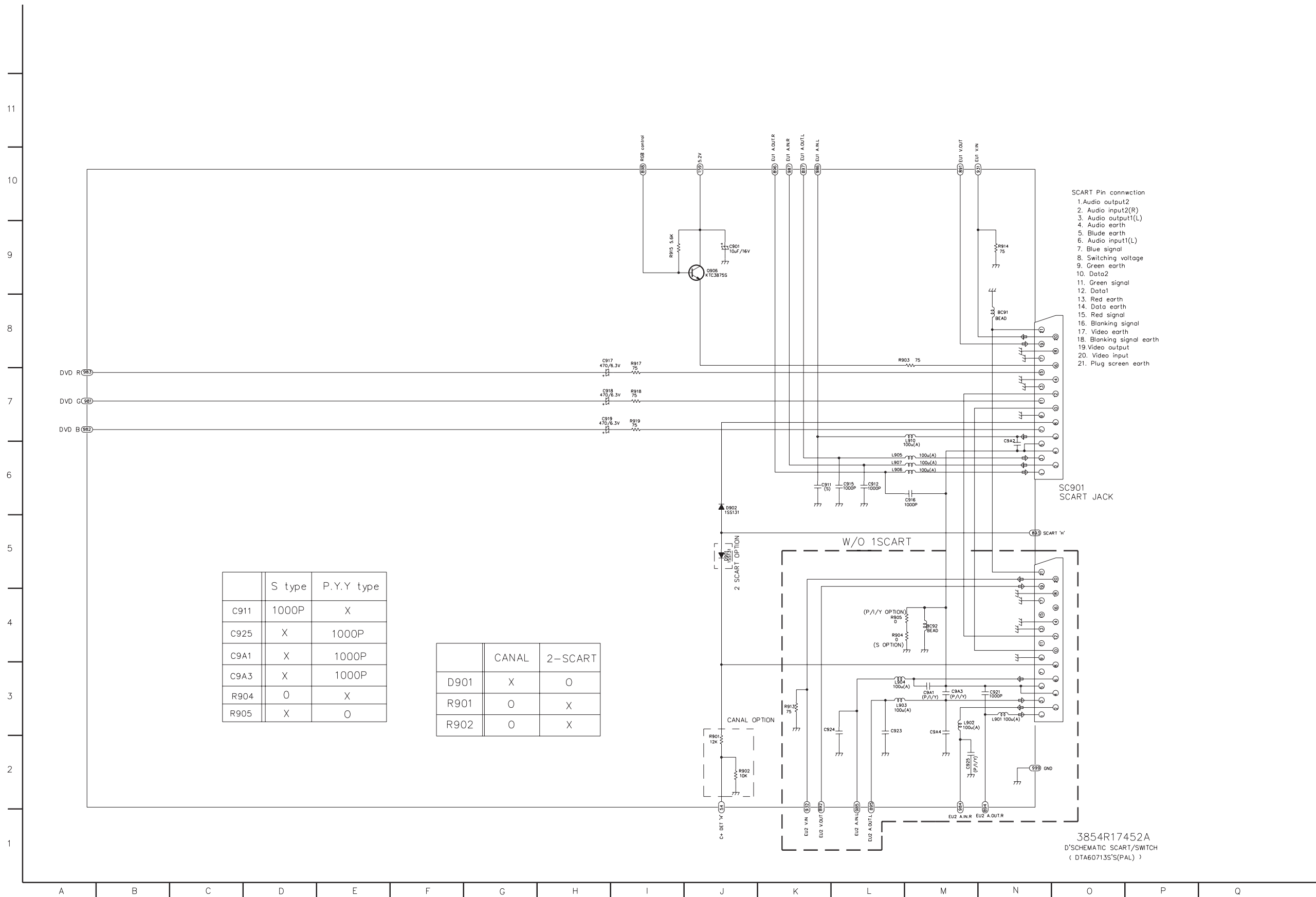
4. A/V CIRCUIT DIAGRAM



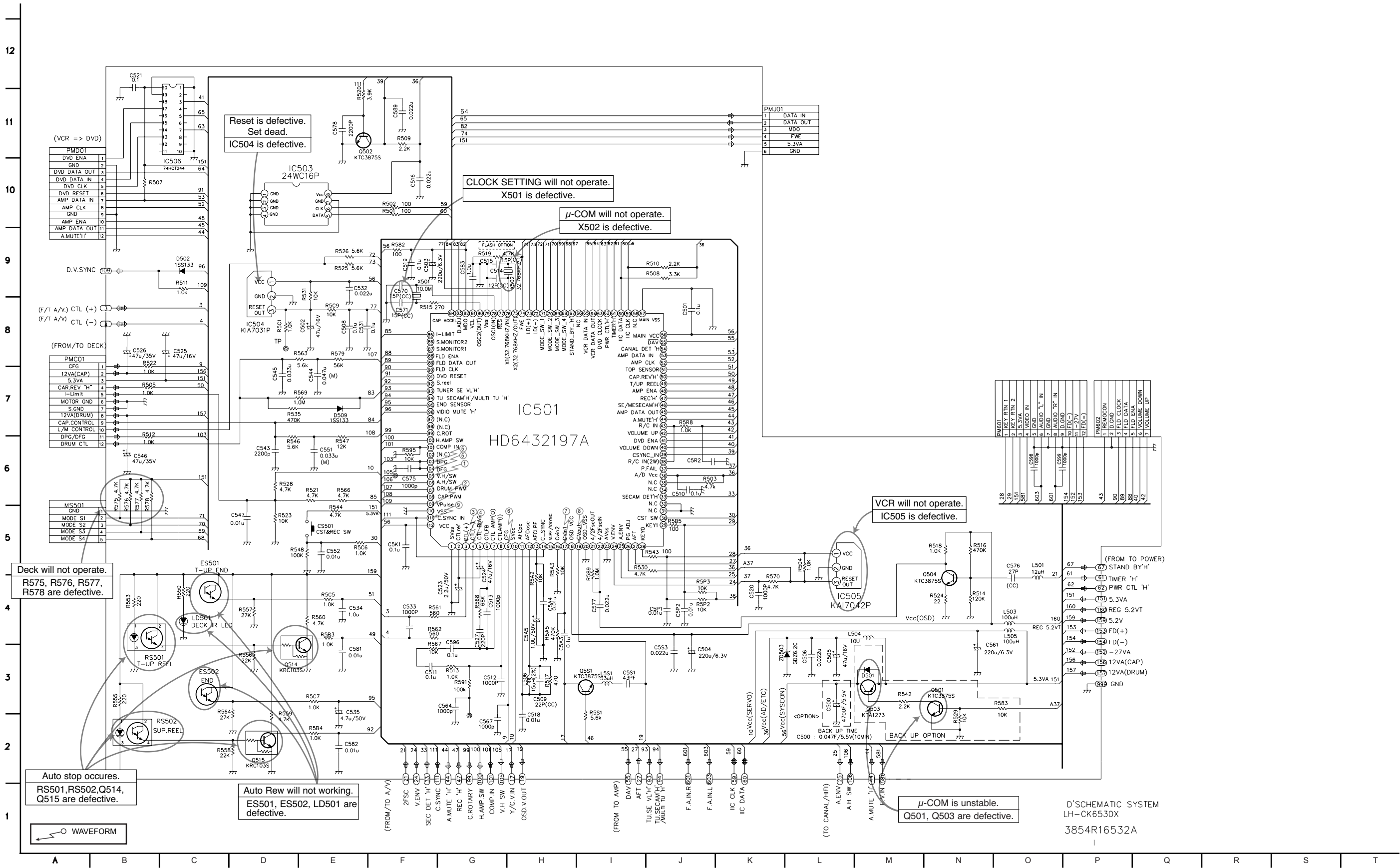
5. Hi-Fi CIRCUIT DIAGRAM



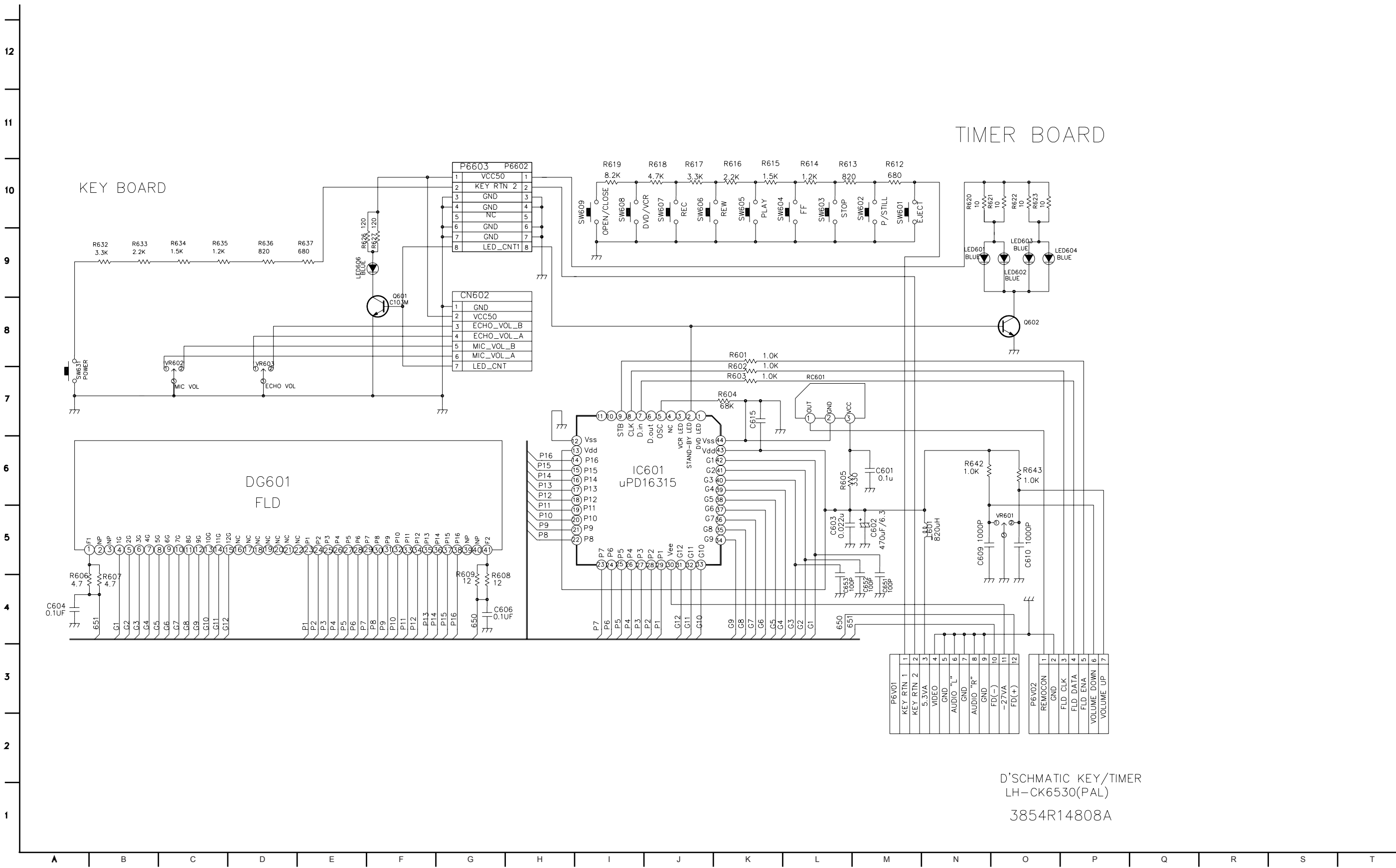
6. SCART(JACK) CIRCUIT DIAGRAM



7. SYSTEM CIRCUIT DIAGRAM

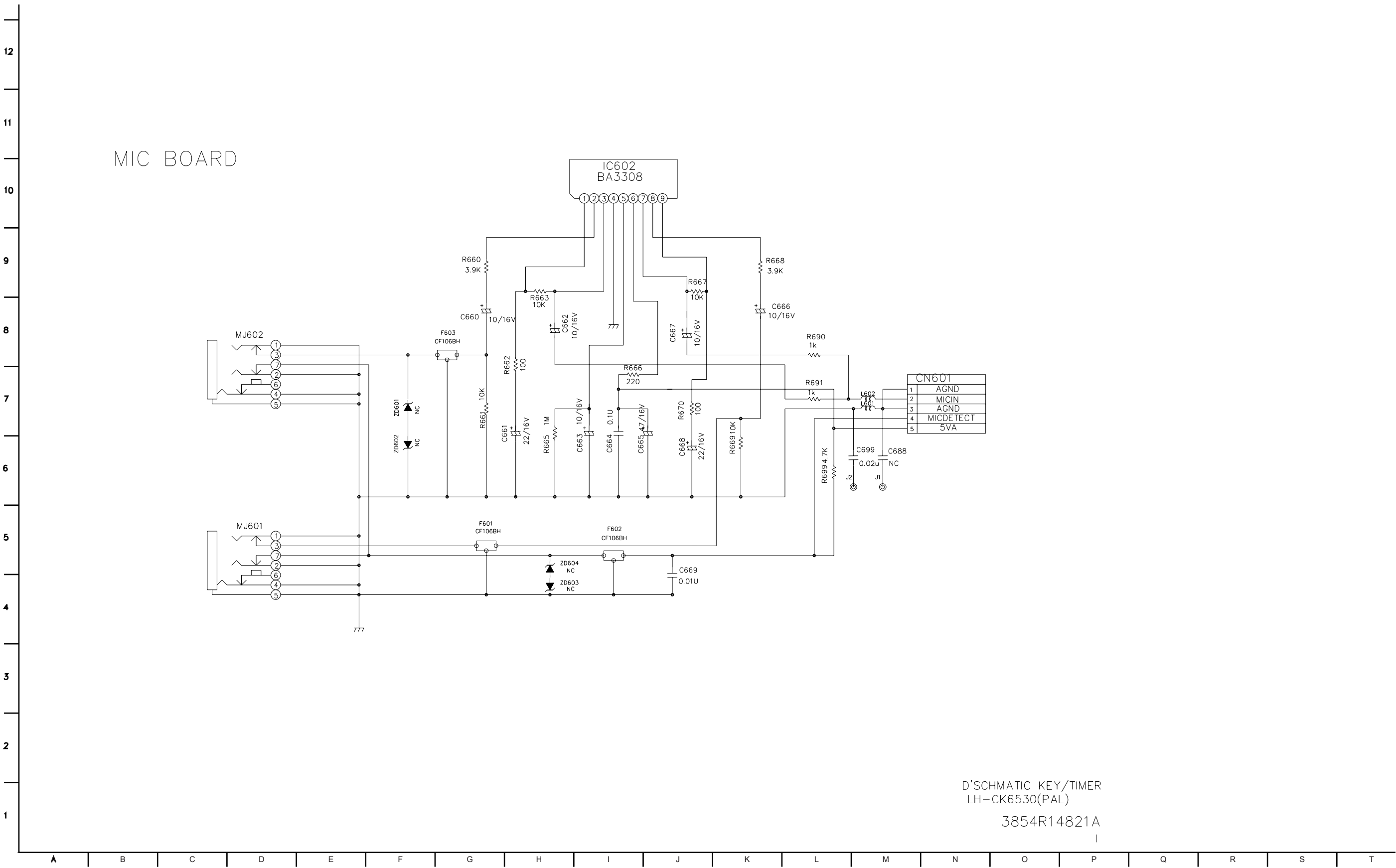


8. TIMER CIRCUIT DIAGRAM



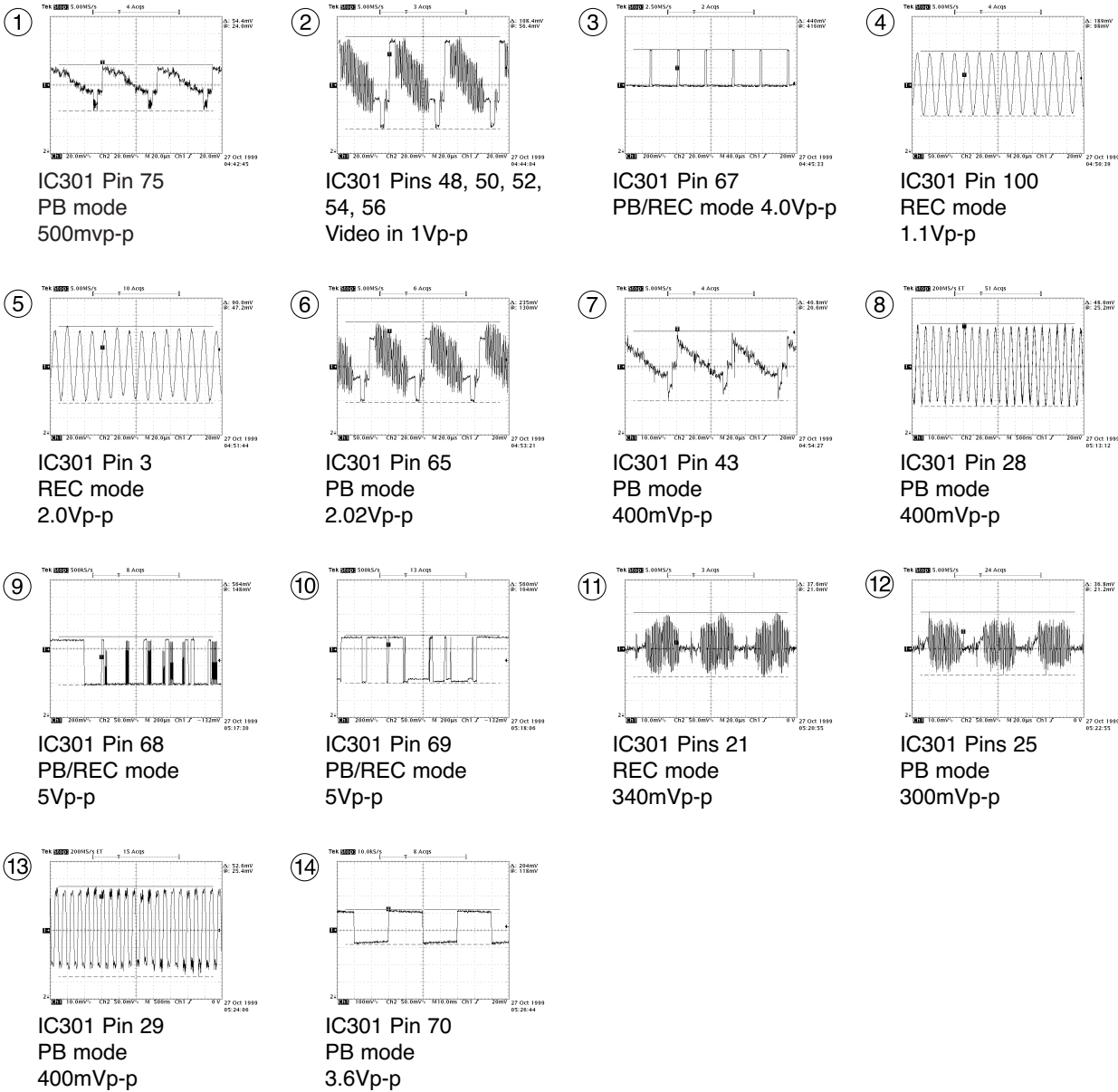
D'SCHMATIC KEY/TIMER
LH-CK6530(PAL)
3854R14808A

9. KARAOKE CIRCUIT DIAGRAM (KARAOKE MODEL ONLY)

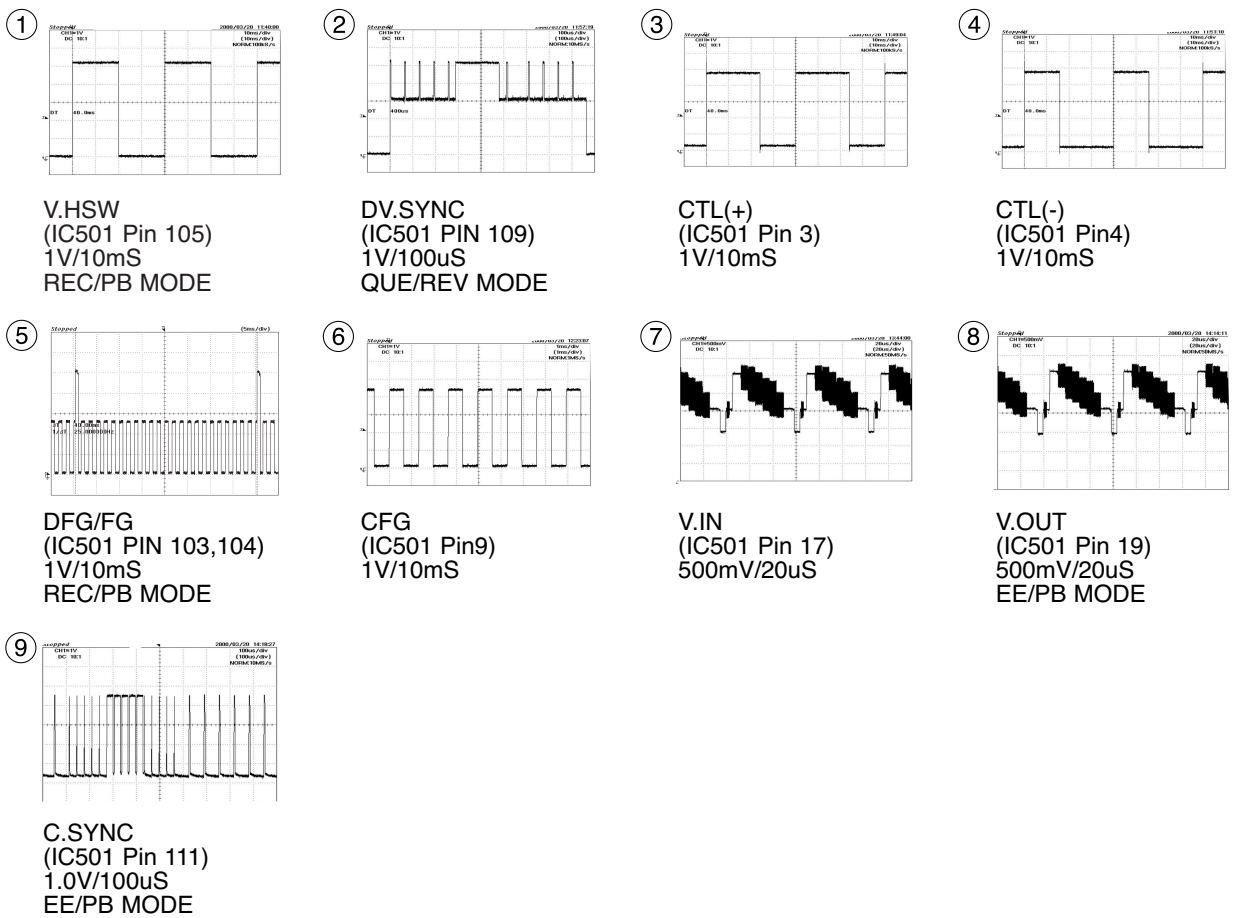


WAVEFORM & VOLTAGE SHEET

★ IC301 Oscilloscope Waveform



★ IC501 Oscilloscope Waveform



• CIRCUIT VOLTAGE CHART

MODE PIN NO.	EE	PB	REC
IC 201			
1	2.4	2.4	2.4
2	2.3	2.4	2.4
3	3.4	3.4	3.4
4	2.5	2.4	2.4
5	0	0	0
6	0.5	3.7	0.5
7	0	0	0
8	0	0	0
9	2.9	2.9	2.9
10	2.4	2.4	2.4
11	2.1	2.4	2.4
12	3.1	1.8	2.3
13	4	4	3
14	2.4	2.4	4
15	3.0	1.8	2.4
16	3.2	3.1	3.2
17	0	4	0
18	0	3.3	0.12
19	2.2	2.2	2.2
20	2.1	2.5	2.3
21	1.9	2.3	2.3
22	0	0	0
23	4.8	4.8	4.8
24	4.8	4.8	4.8
25	2.3	2.2	1.5
26	2.3	2.2	2.4
27	2.9	2.7	2.9
28	0.1	0.18	0.18
29	0.19	0.3	3.8
30	2	2	2
IC 301			
1	4.9	4.9	1
2	0	0	0.8
3	2.2	2.2	2.3
4	pulse	pulse	0.6
5	2.1	2.1	2.3
6	2.2	2.1	2.2
7	2.1	2.1	2.2
8	2.1	2.1	2.2
9	2.1	2.1	2.9
10	2.2	2.1	2.2
11	2.2	2.2	2.2
12	0	0	0
13	2.1	2.1	2.2
14	0	0	1
15	2.1	2.1	2.2
16	4.9	0.1	4.8
17	2.1	2.1	2.2
18	4.9	4.9	4.9
19	4.0	3.8	2.8
20	0	0	0
21	3.1	1.8	2
22	2.7	2.6	3.4
23	2.7	2.6	3.4

MODE PIN NO.	EE	PB	REC
24	4.9	4.9	4.9
25	0.1	3.3	0.12
26	1.5	2.2	1.2
27	2	2.0	2
28	4	4	4
29	2.6	2.6	2.6
30	0	0	0
31	4.5	4.4	4.5
32	4.4	4.4	4.5
33	2.9	2	1.9
34	0	0	1.8
35	1.8	1.8	1.8
36	2.9	3.5	3.6
37	1.8	1.8	1.8
38	2	2	2
39	9	9	9
40	0	0	0
41	0	0	0
42	4.9	4.9	4.9
43	2.4	2.2	2.3
44	0	3.9	2.8
45	2.4	2.4	2.5
46	2.6	2.5	2.6
47	4	4	4
48	4.2	4.2	4.2
49	2.9	3.6	3
50	1.9	1.9	1.95
51	0	0	0
52	1.9	1.9	1.95
53	2.3	2.2	2.3
54	1.9	1.9	2.2
55	5.2	5.2	5.2
56	2.2	2.0	2
57	1.9	2.3	1.6
58	3.6	1.3	2.2
59	2.8	2.8	2.8
60	1.5	1.5	1.4
61	1.8	1.3	1.3
62	0	0	0
63	1.8	1.3	1.6
64	0	0	0
65	1.7	1.1	1.1
66	0	0	0
67	0.2	3.7	0.4
68	4.8	4.9	4.8
69	4.7	4.8	4.8
70	0	pulse	2.6
71	3.3	0	0
72	4.9	4.8	4.8
73	2	3.3	2.2
74	2.4	1.6	2.3
75	2.3	0.6	2.3
76	2.3	0.7	2.3
77	1.5	1.5	1.5
78	2.5	3.3	2.5

MODE PIN NO.	EE	PB	REC
79	1.8	1.7	2.5
80	0.9	0.9	4.6
81	1.0	1	1
82	0	0	0
83	pulse	0	0
84	0.5	2.6	0
85	0	0	1.3
86	0.27	0.3	2
87	0.7	0.7	0.7
88	0.7	0.7	0.7
89	0.7	0.7	0.7
90	0.7	0.7	0.7
91	4.9	4.9	4.8
92	0	0	0
93	1.7	1.7	4
94	1.7	1.7	4
95	1.7	1.7	4
96	1.7	1.7	4
97	0	0	0
98	2.2	2.2	2.2
99	2.2	2.2	2.2
100	2.2	2.2	2.2
IC 501			
1	0	0	0
2	2.6	2.6	2.6
3	2.6	2.6	3.5
4	2.6	2.6	1.3
5	2.6	2.6	2.6
6	2.6	2.6	2.6
7	2.7	2.7	2.7
8	2.58	2.5	2.5
9	4.52	2.2	2.2
10	5.2	5.2	5.2
11	1.8	1.8	1.7
12	1.8	1.8	0
13	2.0	2.1	2
14	0.26	3.9	0.4
15	0.27	pulse	0.16
16	1.9	1.9	1.8
17	2.47	1.4	2.4
18	4.93	0	4.8
19	2.26	0	1.7
20	0	0	0
21	2.3	0	2.3
22	2.3	2.3	2.2
23	0	0	0
24	0.52	2.6	0
25	0.078	3.1	0.16
26	5.2	0	5.2
27	4.5	4.5	4.5
28	0	5.2	5.2
29	0	0	0
30	0	0	0
31	0	0	0
32	0	0	0

MODE PIN NO.	EE	PB	REC
33	0.18	0.18	0.16
34	0.26	0	0.16
35	5.2	5.2	5.2
36	5.2	5.2	5.2
37	4.8	0	0
38	4.8	4.8	4.8
39	0.21	0	2.3
40	5.18	0	0
41	3.1	0	0
42	0	0	0
43	0	4.8	4.8
44	0	0	0
45	0	0	0
46	0	0	0
47	0	0	5.1
48	0	0	0
49	0	pulse	0
50	0	0	0.1
51	0	0	0.1
52	pulse	0	0.26
53	pulse	0	0.26
54	5.2	0	5.1
55	pulse	0	0
56	5.2	5.2	0
57	0	0	0
58	0	0	0
59	4.9	0	0
60	4.7	0	4.7
61	5.1	5.1	5.1
62	5.1	0.2	5.1
63	5	5	5
64	3.58	3.5	3.6
65	2.8	pulse	0
66	5.1	5.1	0.2
67	0	0	5.1
68	0	5.2	0
69	0	5.2	5.2
70	5.2	5.2	5.2
71	5.2	0	5.2
72	0	0	0
73	0.3	5.1	5.1
74	0	0	0
75	0	0	1.6
76	1.36	1.3	1.3
77	0	0	0
78	0	0	2.5
79	0	0	0
80	0	0.15	0
81	3.3	3.3	3.3
82	5.2	5.2	0
83	0	2.5	2.5
84	0	2.7	2.7
85	0	3.5	3.6
86	pulse	pulse	2.8
87	0	pulse	3.1

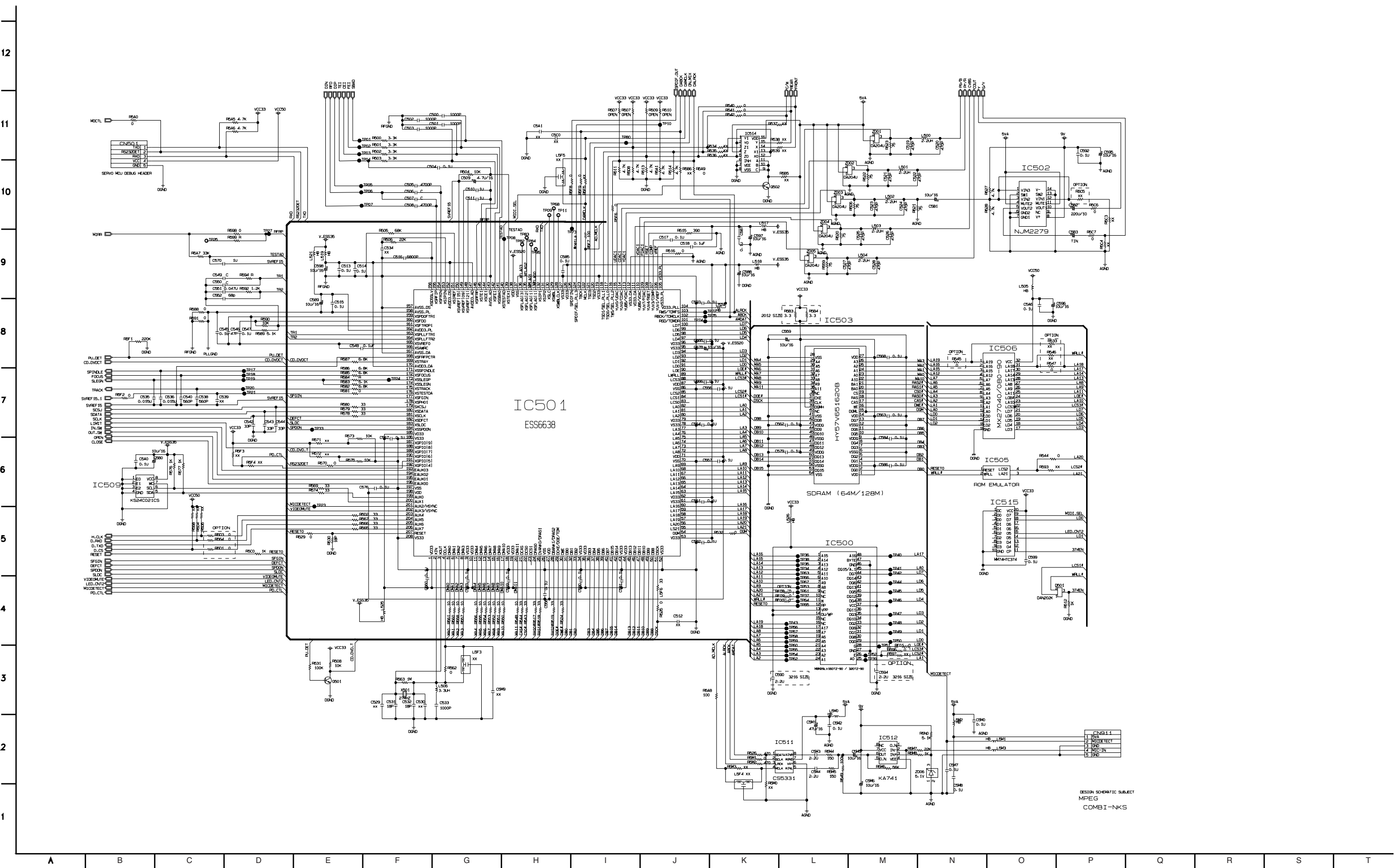
MODE PIN NO.	EE	PB	REC
88	4.8	4.8	4.8
89	0	0	0
90	0	4.9	0
91	4.95	0	0
92	0	0	pulse
93	0	0	0
94	0	0	0
95	0	0	0
96	0	0	0
97	0	0	0
98	0	5.1	5.2
99	0	2.5	2.6
100	0	0	0
101	0	0	0.29
102	0	0	0
103	0	1.4	1.38
104	0	pulse	1.39
105	0	2.5	2.6
106	0	2.5	2.6
107	0	0	0
108	0	0	2.7
109	pulse	0	0
110	pulse	0	0
111	0.26	0	0
112	5.2	0	0
IC 751			
1	5.1	5.1	5.1
2	1.5	1.5	1.5
3	1.5	1.5	1.5
4	0	0	0
5	2.4	2.4	2.4
6	2.3	2.3	2.3
7	0.2	pulse	pulse
8	0	0	pulse
9	0	0	pulse
10	0	0	0
11	5.1	5.1	5.1
12	4.8	4.8	4.8
13	4.7	4.7	4.8
14	2.5	2.5	pulse
15	2.5	2.5	pulse
16	0	0	pulse
17	pulse	pulse	pulse
18	0.23	pulse	pulse
19	5.14	5.1	5.1
20	0	0	0
21	pulse	pulse	pulse
22	5.1	5.1	5.1
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0

MODE PIN NO.	EE	PB	REC
30	2.8	2.8	2.8
31	2.8	2.8	2.8
32	0	0	0
33	5.1	5.1	5.1
34	4.2	4.2	4.2
35	0	0	0
36	2.8	2.8	2.8
37	0	0	0
38	0	0	0
39	0	0	0
40	2.8	2.8	2.8
41	2.8	2.8	2.8
42	2.5	2.5	2.6
43	2.4	2.4	2.4
44	0	0	0
IC 801			
1	3.8	3.8	3.8
2	3.8	3.8	3.8
3	3.8	3.8	3.8
4	3.8	3.8	3.8
5	3.8	3.8	3.8
6	3.8	3.8	3.8
7	3.8	3.8	3.8
8	3.8	3.8	3.8
9	3.8	3.8	3.8
10	3.8	3.8	3.8
11	3.8	3.8	3.8
12	0	0	0
13	3.87	3.87	3.8
14	0	0	0
15	0	0	0
16	6	6	6
17	6	6	6
18	0	0	0
19	6	6	6
20	6	6	6
21	4.57	4.5	4.5
22	3.82	3.8	3.8
23	3.86	3.8	3.8
24	3.87	3.8	3.8
25	3.87	3.8	3.8
26	0.8	0.8	0.8
27	0	0	0
28	3.84	3.8	3.8
29	3.86	3.8	3.8
30	0.79	0.7	0.8
31	3.87	3.8	3.9
32	3.87	3.8	3.9
33	3.86	3.8	3.9
34	12	12	12
35	0.6	0.6	4.2
36	0.63	0.6	4.2
37	0.63	0.6	4.2
38	0	0	4.2
39	0	0	0

MODE PIN NO.	EE	PB	REC
40	5	5	5
41	0	0.9	0.9
42	4.7	4.7	4.8
43	4.8	4.6	4.8
44	0	3.3	0.7
IC 802			
1	3	3.1	2.9
2	12	12	12
3	2.7	2.7	2.7
4	12	12	12
5	2.9	2.9	3
6	5.7	5.7	5.7
7	5.7	5.7	5.7
8	0	5.6	5.7
9	5.1	0	0
10	5.6	5.6	5.7
11	11.4	11.4	11.5
12	5.7	5.7	5.7
13	0	0	1.6
14	5.6	5.6	2.7
15	0.1	0.1	5.7
16	5.6	5.6	0
17	0	0	0
18	0	0	0
19	0	0	5.7
20	5.7	5.7	5.7
21	5.7	5.7	5.7
22	5.7	5.7	5.7
23	5.6	5.6	5.7
24	5.7	5.7	5.7
25	5.7	5.7	5.7
26	5.7	5.7	5.7
27	5.6	5.6	5.2
28	5.2	5.2	2.3
29	1.4	1.4	1.8
30	2.1	2.3	3.5
31	3.5	3.5	3.5
32	4.7	4.7	4.8
33	4.8	4.8	4.9
34	0	0	0
IC 901			
1	3.6	3.1	1.5
2	0.1	0.1	2.6
3	0.8	0.8	0.85
4	0	0	0
5	0.7	0.7	0.85
6	0.7	0.7	0.79
7	0.1	0.1	2.6
8	1.4	1.4	1.5
9	3.0	2.8	1.5
10	0	0	0
11	1.4	1.5	0
12	0.1	0.1	2.6
13	5.2	5.2	5.2
14	2.6	2.6	1.6

CIRCUIT DIAGRAMS

1. MPEG CIRCUIT DIAGRAM



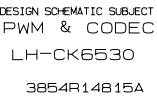
12
11
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DESIGN SCHEMATIC SUBJECT
DIGITAL AMP
COMBI-NKS
3854R14814A

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INTERFACE
LH-CK6530
3854R14812A

INTERFACE
LH-CK6530
3854R14812A

• CIRCUIT VOLTAGE CHART

MODE PIN NO.	STOP	PLAY
IC101		
1	5.23	5.22
2	0	0
3	1.75	1.99
4	0	0
5	4.91	4.91
6	NC	NC
7	0.54	1.88
8	0.54	1.88
9	4.91	4.91
10	0	0
11	4.77	4.77
12	0.12	0.12
13	4.72	4.72
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	3.24	3.22
23	0.91	0.91
24	1.65	1.65
25	0	0
26	0	0
27	1.99	1.93
28	3.12	3.12
29	3.26	3.25
30	3.12	3.12
31	4.65	4.65
32	NC	NC
33	NC	NC
34	NC	NC
35	0	0
36	4.91	4.91
37	3.25	3.24
38	4.91	4.91
39	0	0
40	3.22	3.2
41	NC	NC
42	NC	NC
43	NC	NC
44	NC	NC
45	NC	NC
46	4.91	4.9
47	2.08	2.03
48	2.07	2.07
49	4.91	4.9
50	NC	NC
51	5.09	5.08
52	0	0
53	4.91	4.91
54	2.16	2.1

MODE PIN NO.	STOP	PLAY
55	2.04	1.96
56	0	0
57	2.36	2.36
58	2.42	2.42
59	4.9	4.91
60	2.4	2.4
61	1.8	1.9
62	4.9	4.9
63	0	0
64	5.23	5.22
IC102		
1	4.93	4.93
2	0	0
3	4.93	4.93
IC103		
1	3.72	3.71
2	0	0
3	4.93	4.93
IC104		
1	6.04	6.04
2	6.04	6.04
3	6.04	6.04
4	0	0
5	6.04	6.04
6	6.04	6.04
7	6.04	6.04
8	12.09	12.08
IC201		
1	2.46	2.44
2	0	0
3	0	0.92
4	2.46	2.44
5	0	0
6	2.46	2.44
7	0	0
8	2.46	2.44
9	2.46	2.44
10	2.46	2.44
11	2.46	2.44
12	0	2.44
13	0	0
14	2.46	2.44
15	2.46	2.44
16	2.46	2.44
17	2.46	2.44
18	2.46	2.44
19	0.04	0.04
20	2.46	2.44
21	2.46	2.44
22	0.14	0.19
23	2.46	2.44
24	0	0
25	1.6	1.58
26	1.63	1.62
27	1.335	1.34

MODE PIN NO.	STOP	PLAY
28	1.59	1.58
29	1.63	1.62
30	1.68	1.67
31	0	0
32	1.99	1.96
33	1.37	1.29
34	2.5	2.47
35	0	0
36	3.25	3.23
37	2.5	2.45
38	2.5	2.45
39	0	0.8
40	0	0.35
41	0	1.37
42	1.63	1.62
43	1.6	1.58
44	1.62	1.61
IC202(AK4586)		
1	2.41	2.39
2	2.04	2.07
3	4.85	4.84
4	0	0.01
5	3.28	3.28
6	4.85	0.01
7	1.18	1.15
8	1.65	1.65
9	1.63	1.62
10	1.3	1.25
11	0	1.63
12	0	1.63
13	0	0.58
14	0	0.03
15	0	0.03
16	0.45	0.2
17	0	0.01
18	0	0.02
19	4.93	4.92
20	0	0.02
21	0	0.01
22	4.94	4.93
23	4.93	4.93
24	2.46	2.46
25	0	0.02
26	2.47	2.47
27	2.47	2.47
28	2.47	2.47
29	2.47	2.47
30	2.47	2.47
31	2.47	2.47
32	2.47	2.46
33	2.47	2.46
34	4.93	4.92
35	1.2	1.2
36	0	0.01
37	2.44	2.45

MODE PIN NO.	STOP	PLAY
38	0	0.01
39	2.44	2.45
40	0	0.02
41	2.44	2.45
42	0	0.01
43	4.24	4.23
44	4.93	4.93
IC301		
1	0	0
2	0	0
3	3.21	3.18
4	4.91	4.91
5	3.21	3.18
6	2.95	2.92
7	1.72	1.7
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	3.21	3.18
16	0	0
17	0	0.9
18	0	0
19	0	0
20	0	0
21	0	0.9
22	1.59	1.6
23	1.63	1.62
24	3.22	3.18
25	0	0
26	0	0.9
27	0	0
28	0	0
29	0	0
30	NC	NC
31	NC	NC
32	3.21	3.18
33	0	0
34	NC	NC
35	NC	NC
36	NC	NC
37	0	0
38	1.6	1.59
39	NC	NC
40	3.21	3.18
41	0	0
42	NC	NC
43	0	0
44	NC	NC
45	NC	NC
46	3.21	3.18
47	0	0

MODE PIN NO.	STOP	PLAY
48	NC	NC
49	NC	NC
50	0	0
51	3.21	318
52	0	0
53	1.59	1.58
54	1.59	1.58
55	0	0
56	1.59	1.58
57	1.59	1.58
58	3.21	3.18
59	0	0
60	1.59	1.58
61	1.59	1.58
62	0	0
63	1.59	1.58
64	1.59	1.59
65	3.21	3.18
66	0	0
67	1.59	1.58
68	1.59	1.58
69	0	0
70	1.59	1.58
71	1.59	1.58
72	3.21	3.18
73	0	0
74	0	0
75	0	0
76	3.1	3.09
77	3.21	3.18
78	0	0
79	3.22	3.2
80	0	0
81	3.21	3.18
82	3.21	3.18
83	0	0
84	3.21	3.18
85	0	0
86	1.67	1.67
87	NC	NC
88	NC	NC
89	0	0
90	3.21	3.18
91	0	0
92	3.25	3.24
93	0	0
94	0	0
95	0	0
96	0	0
97	NC	NC
98	0	0
99	3.21	3.18
100	0	0

MODE PIN NO.	STOP	PLAY
IC401(MT1336E)		
1	1.03	2.99
2	5.11	5.08
3	0	0
4	0	0
5	5.11	5.07
6	0	1.95
7	0	0
8	0	0
9	5.11	0
10	5.11	5.08
11	5.11	5.08
12	0	0
13	5.11	0
14	5.11	5.08
15	2.84	2.81
16	1.45	1.43
17	2.08	2.07
18	1.37	1.42
19	0.69	2.3
20	2.4	0
21	2.35	0
22	5.11	5.08
23	0	0
24	2.59	3.2
25	0.19	1.88
26	1.58	0
27	2.56	3.13
28	2	2.01
29	2	2.06
30	2.96	1.52
31	0	0
32	0.06	2.07
33	0.07	2.07
34	0	0
35	0	0
36	0	0
37	5.13	0
38	0	0
39	0	0
40	0	0
41	0	0
42	5.12	5.09
43	5.12	5.09
44	5.12	5.09
45	5.12	5.09
46	5.12	5.09
47	0	0
48	5.12	5.09
49	5.12	0
50	5.08	5.06
51	5.09	5.07
52	5.1	0
53	0	0
54	5.13	0

MODE PIN NO.	STOP	PLAY
56	1.61	0
57	0	0
58	0	0
59	0	0
60	0	0
61	3.28	0
62	0	0
63	0	0
64	0	0
65	0	0
66	0.026	0
67	5.12	5.08
68	0	0
69	5.12	0
70	3.21	2.03
71	3.46	2.2
72	2.81	0
73	0	0
74	0.21	0.09
75	0.22	0
76	0	0.1
77	0.21	0.09
78	0.23	0.09
79	0.21	0.08
80	0.23	0.08
81	0.22	0
82	0	0
83	0	0
84	0.07	0
85	0.07	2.27
86	1.97	0
87	1.96	1.9
88	1.54	1.71
89	0.19	2.22
90	0.21	0
91	0.22	0.06
92	0.22	0
93	0.23	0.06
94	0.23	0.06
95	2.28	0
96	2.28	2.25
97	2.27	1.23
98	2.27	2.23
99	2.27	2.23
100	2.16	2.23
101	2.08	2.17
102	2.07	2.17
103	2.07	2.18
104	2.08	0
105	0.13	0.15
106	0.14	0.16
107	0	0
108	1.28	1.28
109	5.18	5.05
110	0.14	0.16

MODE PIN NO.	STOP	PLAY
111	0.15	0.15
112	0.13	0.16
113	0.14	0.15
114	5.1	5.05
115	2.07	2.06
116	2.06	2.09
117	0	0
118	0	0
119	0	0
120	5.1	5.05
121	0.13	0.15
122	0.14	0.15
123	0	0.18
124	0	0.18
125	5.08	5.03
126	5.08	3.16
127	0.06	2.08
128	0	0
IC402 (LA6560)		
1	0	0
2	0	0
3	8.04	8.01
4	0.12	0.06
5	0	0.06
6	3.64	3.69
7	3.62	3.61
8	3.64	3.53
9	3.6	3.76
10	3.62	2.43
11	3.63	4.85
12	3.62	3.72
13	3.64	3.57
14	8.04	8.01
15	1.45	1.48
16	0.27	1.39
17	0.29	1.32
18	1.45	1.43
19	1.45	1.43
20	1.45	0.82
21	1.45	1.43
22	1.45	1.43
23	1.47	1.37
24	1.45	1.43
25	1.45	1.43
26	0.95	0.9
27	0	0
28	1.45	1.43
29	5.15	5.11
30	1.45	1.43
31	1.45	1.43
32	1.45	1.43
33	1.46	1.45
34	5.08	5.06
35	5.15	5.11
36	0	0

MODE PIN NO.	STOP	PLAY
IC501(MT1379)		
1	1.22	1.22
2	0	0
3	0.96	0.9
4	2	2.06
5	0	1.51
6	1.48	1.47
7	0	1.56
8	3.2	1.52
9	0.12	0.06
10	0.12	0.06
11	3.25	3.25
12	1.41	1.49
13	1.41	1.41
14	0	0
15	1.42	1.42
16	3.3	0
17	2.53	2.53
18	1.42	2.27
19	1.42	1.39
20	0	0
21	2.61	2.58
22	0.75	1.46
23	2.83	1
24	1.9	0.89
25	1.72	0.39
26	0.68	0.31
27	2.84	3.16
28	0	0
29	2.85	0.66
30	1.83	0.49
31	0.91	1.39
32	1.43	1.2
33	1.51	1.57
34	1.51	1.43
35	3.3	3.29
36	0.81	1.26
37	1.45	1.02
38	1.82	1.6
39	1.2	1.5
40	2	2.06
41	2.17	1.95
42	2.53	2.52
43	1.96	1.9
44	1.79	1.9
45	0.8	1.72
46	0.8	1.96
47	0.8	1.84
48	3.3	2.63
49	0	0.13
50	0	0.07
51	0	0
52	0	0
53	0	0
54	0	0

MODE PIN NO.	STOP	PLAY
110	0.19	1.74
111	3.3	3.29
112	0.18	1.62
113	2.98	2.38
114	3.02	1.48
115	0	0
116	2.86	3.01
117	2.86	2.54
118	0	0
119	0	2.5
120	2.55	2.51
121	3.03	1.4
122	3.03	1.4
123	0.22	1.39
124	0.22	0.34
125	0	0
126	3.31	0.98
127	0.26	1.64
128	3.31	1.53
129	3.3	1.15
130	3.3	3.29
131	3.31	1.49
132	0.16	0.89
133	3.3	0
134	3.3	1.07
135	0	0
136	2.86	2.53
137	2.86	2.53
138	0.07	0.86
139	0.09	0.99
140	0.07	2.51
141	0.07	0.94
142	0.09	1.13
143	0.07	1.19
144	0.09	1.07
145	0.09	0
146	0	1.51
147	0.09	1.25
148	0.07	1.64
149	0.06	0
150	0	1.65
151	0.07	3.29
152	0	1.6
153	0	1.64
154	0	1.44
155	0	0
156	0	0
157	0	1.63
158	0	3.29
159	0	3.27
160	0	1.27
161	0	1.27
162	0	2.35
163	0	0
164	0	0.73

MODE PIN NO.	STOP	PLAY
165	0	3.27
166	0	0.5
167	0	0
168	0	0.53
169	0	3.27
170	0	0.59
171	0	0
172	3.01	0.72
173	0	0.72
174	0	0
175	0	2.73
176	0	3.13
177	0	3.13
178	0	3.25
179	0	0
180	0	0
181	2.04	2.64
182	0	2.52
183	0	0
184	0	0.09
185	0	3.26
186	—	—
187	0	0.08
188	0	0
189	0	0
190	0	0
191	0.23	0
192	0	3.29
193	0	0
194	0	0
195	0	0
196	0	0
197	0	1.63
198	0	0
199	0	0
200	0	2.15
201	0	1.44
202	0	1.44
203	0	1.43
204	0	1.43
205	0	1.42
206	0	2.1
207	0	2.07
208	0	1.41
209	0	1.52
210	0	1.43
211	0	2.81
212	0	3.28
213	0	0.12
214	0	0.12
215	1.02	1.43
216	0	1.43
IC502(SDRAM)		
1	3.27	3.28
2	1.18	1.26

MODE PIN NO.	STOP	PLAY
3	1.1	1.52
4	0	0
5	0.66	1.07
6	0.85	1.12
7	3.27	3.28
8	0.51	0.97
9	3.06	0
10	0	0
11	0.06	0.98
12	3.18	0.87
13	3.27	3.28
14	2.94	2.56
15	0.47	0.42
16	2.93	3.01
17	3.21	3.22
18	2.87	2.95
19	0.15	1.32
20	0	0.05
21	3.09	1.32
22	3.09	1.32
23	3.09	1.32
24	3.09	1.33
25	3.27	3.29
26	0	0
27	0.15	1.36
28	1.84	2.36
29	1	2.32
30	0.54	1.75
31	0.06	0.06
32	0.05	0.06
33	0	0
34	0.73	1.26
35	1.48	1.55
36	2.91	2.53
37	0.07	0
38	3.27	3.28
39	1.06	1.05
40	0.47	0.98
41	0	0
42	0	0.6
43	1.12	1.24
44	3.27	3.28
45	1.21	0.99
46	1.31	1.34
47	0	0
48	1.43	1.44
49	0.88	1.01
50	0	0
IC505(EEPROM)		
1	0	0
2	0	0
3	0	0
4	0	0
5	3.28	3.29
6	3.28	3.29

MODE PIN NO.	STOP	PLAY
7	0	0
8	3.28	3.29
IC507(MM1623)		
1	5.09	5.08
2	2.43	2.42
3	5.09	5.08
4	1.45	0
5	0	0
6	1.45	1.69
7	0	0
8	2.47	2.46
9	0	0
10	1.14	1.76
11	0	0
12	2.42	2.42
13	5.09	5.08
14	2.43	2.42
15	0	0
16	2.49	2.47
17	0	0
18	2.48	2.47
19	0	0
20	1.18	2.3
21	1.76	2.17
22	0	0
23	1.76	2.24
24	0	0
25	0	0
26	0	0
27	0.06	0.05
28	5.09	0
IC510(BUFFER)		
1	0	0
2	2.59	2.55
3	0	0
4	2.59	2.56
5	0	0
6	3.24	3.23
7	0	0
8	0.14	0.08
9	0	0
10	0	0
11	0.15	0.09
12	0	0
13	0.15	0.08
14	5.19	5.19
15	0.14	0.09
16	5.25	5.24
17	0.15	0.08
18	5.23	5.23
19	0	0
20	5.25	5.25
IC5A1(FLASH)		
1	0.08	0.16
2	1.82	0.45

MODE PIN NO.	STOP	PLAY
3	2.84	0
4	2.83	3.12
5	0.69	0.26
6	1.72	0.25
7	1.92	0.9
8	1.7	1.45
9	0	0
10	0	0
11	3.27	3.29
12	3.56	3.55
13	3.29	3.29
14	0	0
15	0.23	0.06
16	0	0
17	0	0
18	0	0.87
19	1.98	2.64
20	2.28	2.18
21	2.13	1.96
22	1.67	2.01
23	1.99	1.72
24	1.93	2.19
25	2.05	1.94
26	0	0
27	0	0
28	0	0
29	1.49	2.03
30	0.16	1.07
31	1.96	1.25
32	0.16	1.1
33	0.99	2.2
34	1.17	1.07
35	0.79	1.82
36	0.15	1.07
37	3.29	3.3
38	1.93	3.09
39	0.16	1.07
40	1.5	2.2
41	0.16	1.07
42	1.21	2.64
43	0.16	1.08
44	1.64	1.48
45	2.05	2.06
46	0	0
47	0	0
48	0.07	0.13
IC710		
1	0	0
2	15.6	15.6
3	15.6	15.6
4	3.59	31.58
5	0	0
6	0	0
7	31.59	31.58
8	15.62	15.62

MODE PIN NO.	STOP	PLAY
9	15.62	15.62
10	15.61	15.61
11	15.61	15.61
12	31.59	31.59
13	0	0
14	0	0
15	31.59	31.59
16	15.61	15.61
17	15.61	15.61
18	NC	NC
19	0	0
20	0.02	0.02
21	5.02	5.02
22	5.02	5.02
23	3.25	3.24
24	0	0
25	3.15	3.15
26	3.15	3.15
27	3.15	3.15
28	3.24	3.23
29	1.58	1.57
30	1.58	1.57
31	1.58	1.57
32	1.58	1.57
33	26.32	26.31
34	26.32	26.31
35	31.58	31.57
36	31.58	31.57
IC730		
1	0	0
2	15.6	15.6
3	15.6	15.6
4	31.59	31.58
5	0	0
6	0	0
7	31.59	31.58
8	15.62	15.62
9	15.62	15.62
10	15.61	15.61
11	15.61	15.61
12	31.59	31.59
13	0	0
14	0	0
15	31.59	31.59
16	15.61	15.61
17	15.61	15.61
18	NC	NC
19	0	0
20	0.02	0.02
21	5.02	5.02
22	5.02	5.02
23	3.24	3.23
24	0	0
25	3.15	3.15
26	3.15	3.15

MODE PIN NO.	STOP	PLAY
27	3.15	3.15
28	3.24	3.23
29	1.58	1.57
30	1.58	1.57
31	1.58	1.57
32	1.58	1.57
33	26.3	26.3
34	26.3	26.3
35	31.58	31.57
36	31.58	31.57
IC750		
1	0	0
2	15.6	15.6
3	15.6	15.6
4	31.59	31.58
5	0	0
6	0	0
7	31.59	31.58
8	15.62	15.62
9	15.62	15.62
10	15.61	15.61
11	15.61	15.61
12	31.59	31.59
13	0	0
14	0	0
15	31.59	31.59
16	15.61	15.61
17	15.61	15.61
18	NC	NC
19	0	0
20	0.03	0.03
21	5.06	5.06
22	5.06	5.06
23	3.24	3.23
24	0	0
25	3.15	3.15
26	3.15	3.15
27	3.15	3.15
28	3.24	3.23
29	1.58	1.57
30	1.58	1.57
31	1.58	1.57
32	1.58	1.57
33	26.3	26.3
34	26.3	26.3
35	31.58	31.57
36	31.58	31.57

SECTION	NO	STOP			PLAY		
		B	E	C	B	E	C
DVD&	Q401	5.2	5.19	0	5.2	5.19	0
	Q402	0	0	0	0	0	0.22
	Q403	5.08	0	0	4.93	0	0
	Q404	5.01	5.08	0	4.96	5.02	0
	Q405	5.01	5.08	0.44	3.32	4.01	1.9
	Q407	0	0	5.2	0	0	0
	Q408	2.85	0	0	2.83	0	0
	Q410	5.2	5.2	0	0	5.2	0
	Q411	0	0	5.2	0	0	5.19