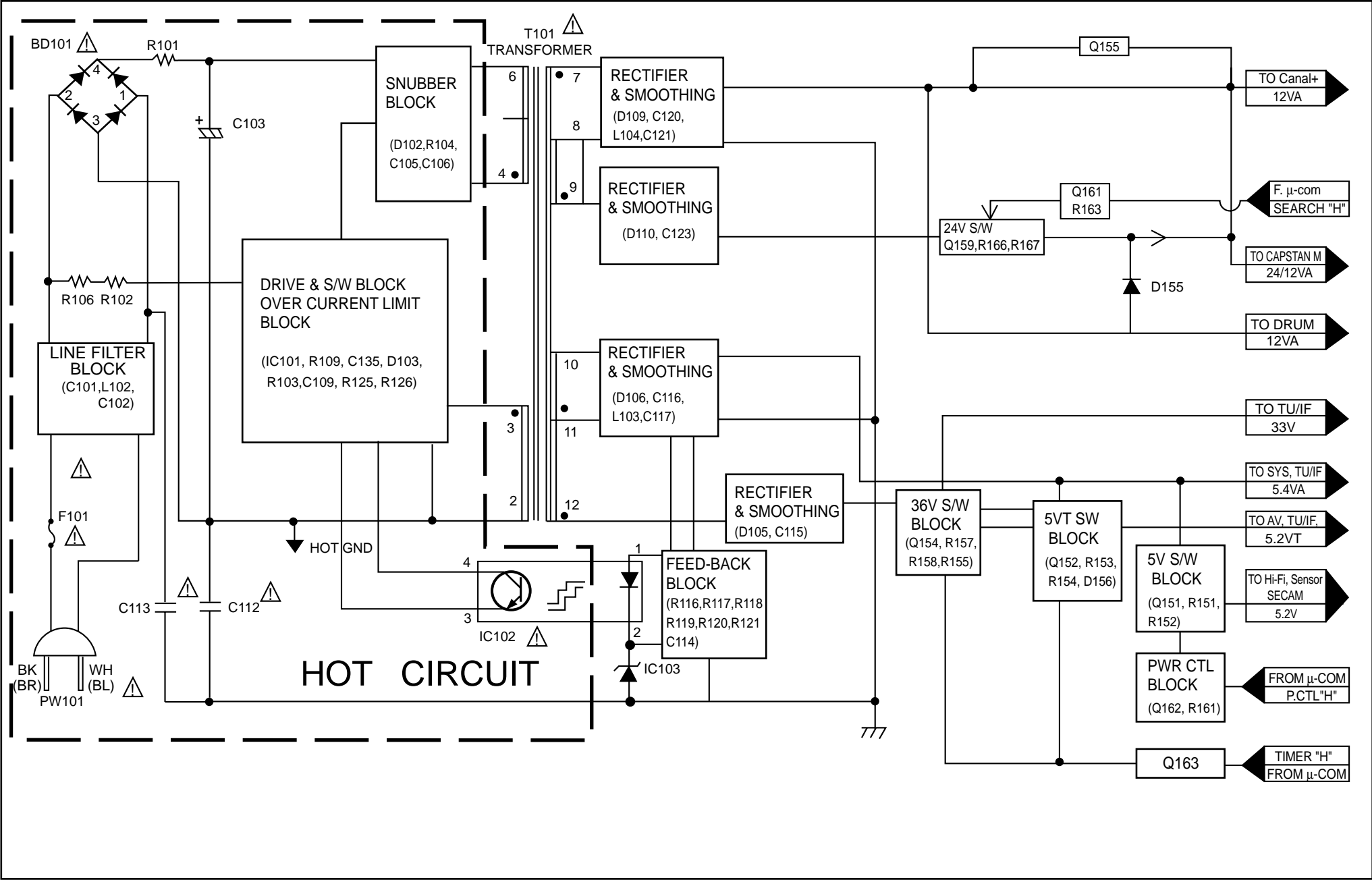




BLOCK DIAGRAMS

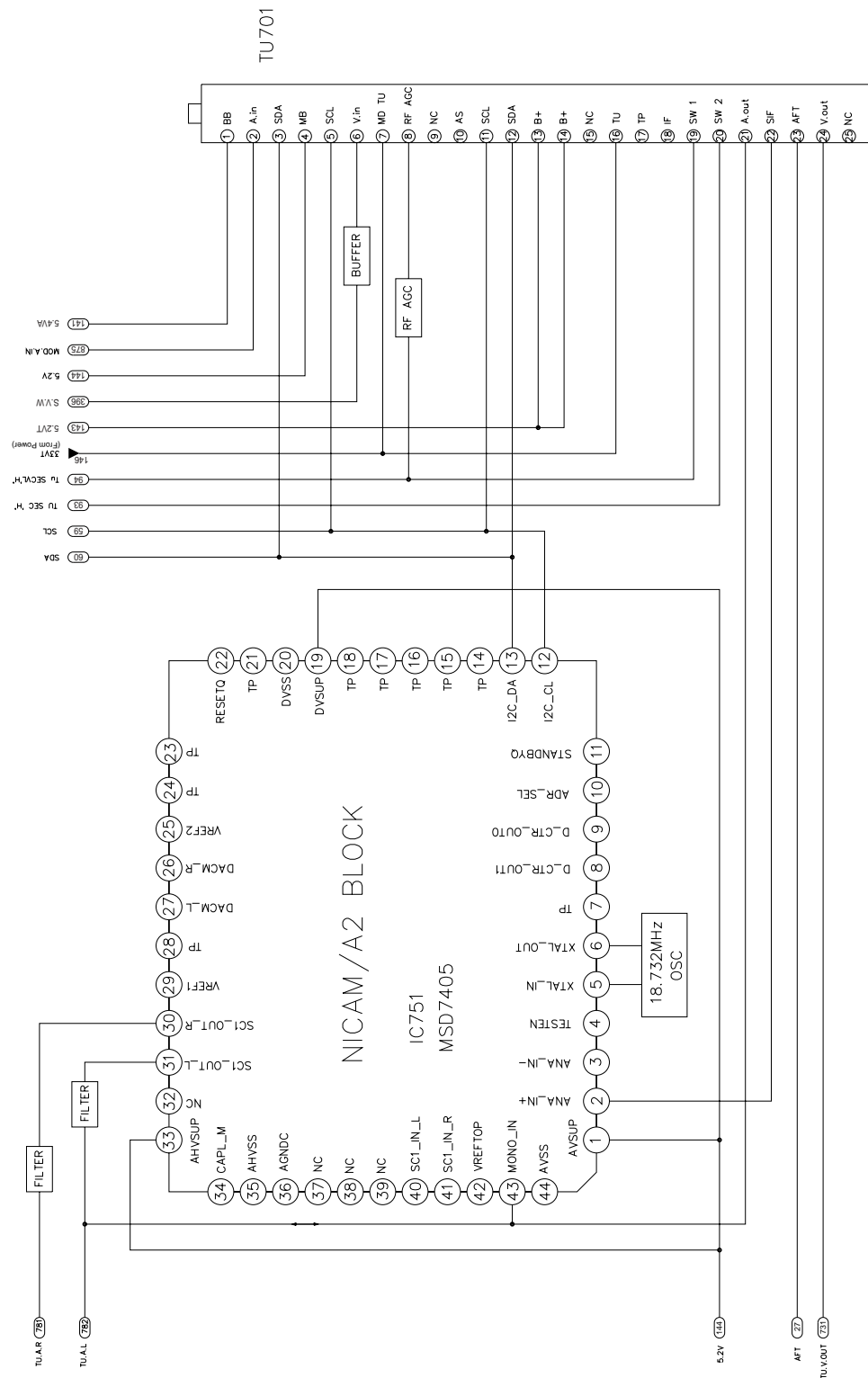
1. Power Block Diagram



'00 11. 30

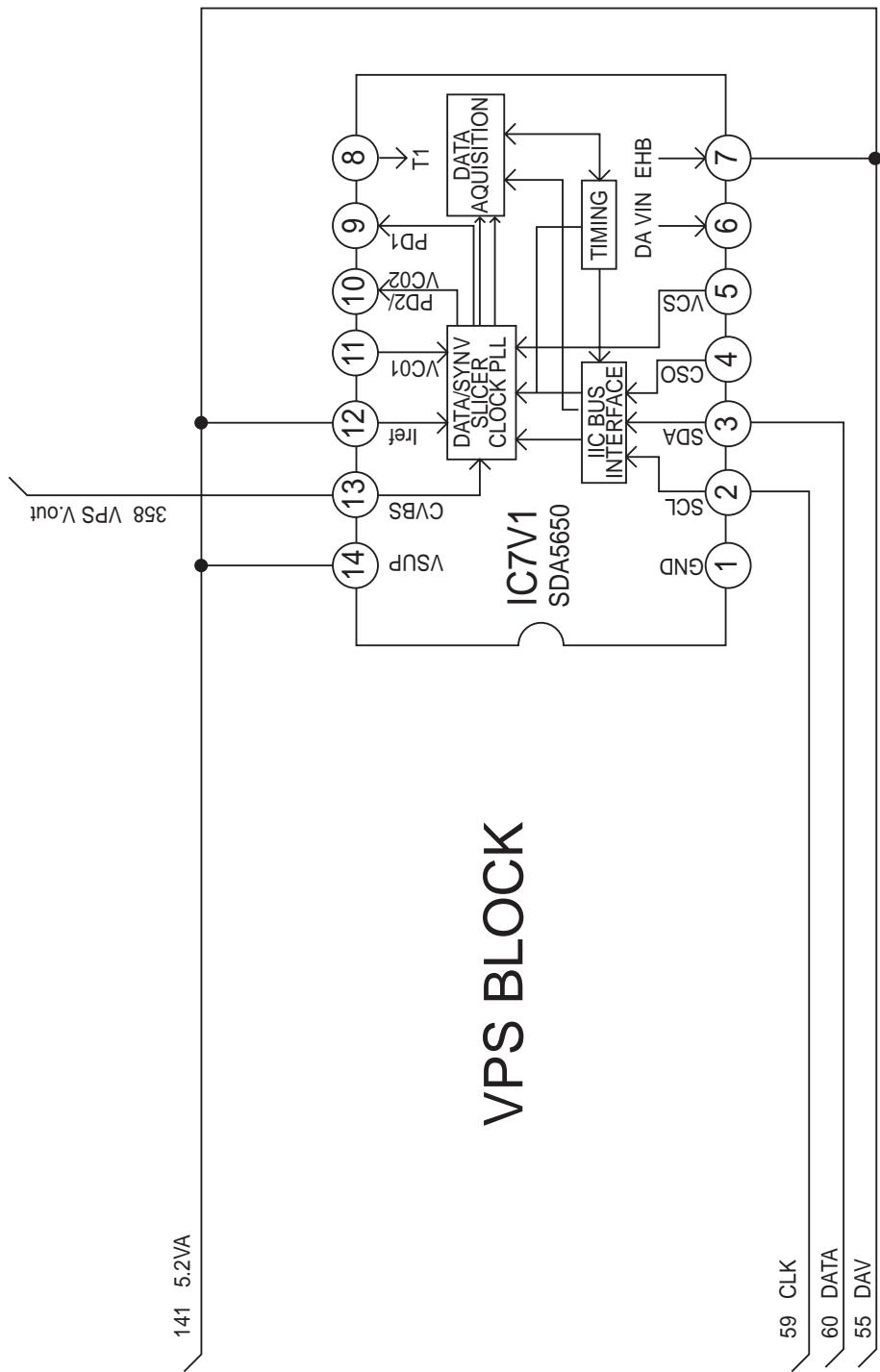
NOTES :  Symbol denotes AC ground.  
 Symbol denotes DC chassis ground.

2. Tu/IF, NICAM & A2 Block Diagram



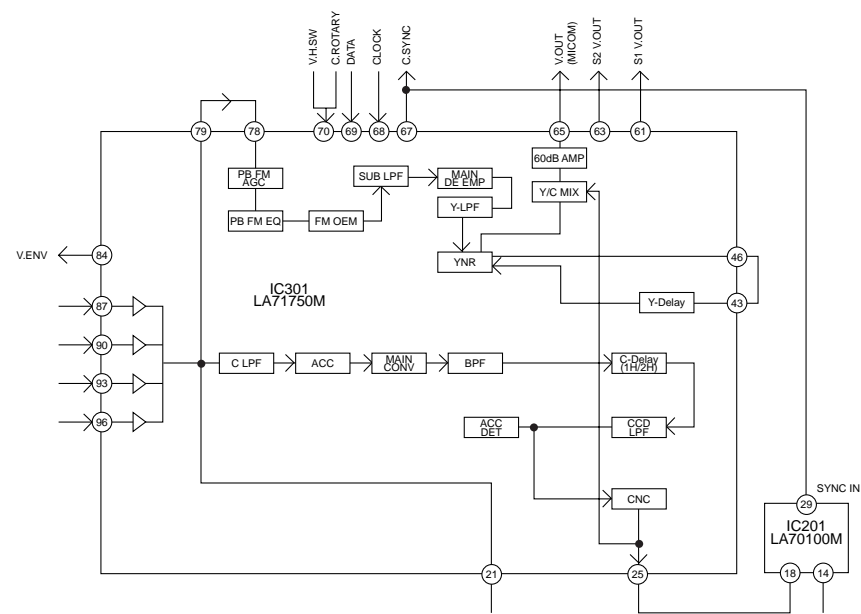
'99 12.8 R10488BA  
BC999NS/BD289Y

3. VPS Block Diagram

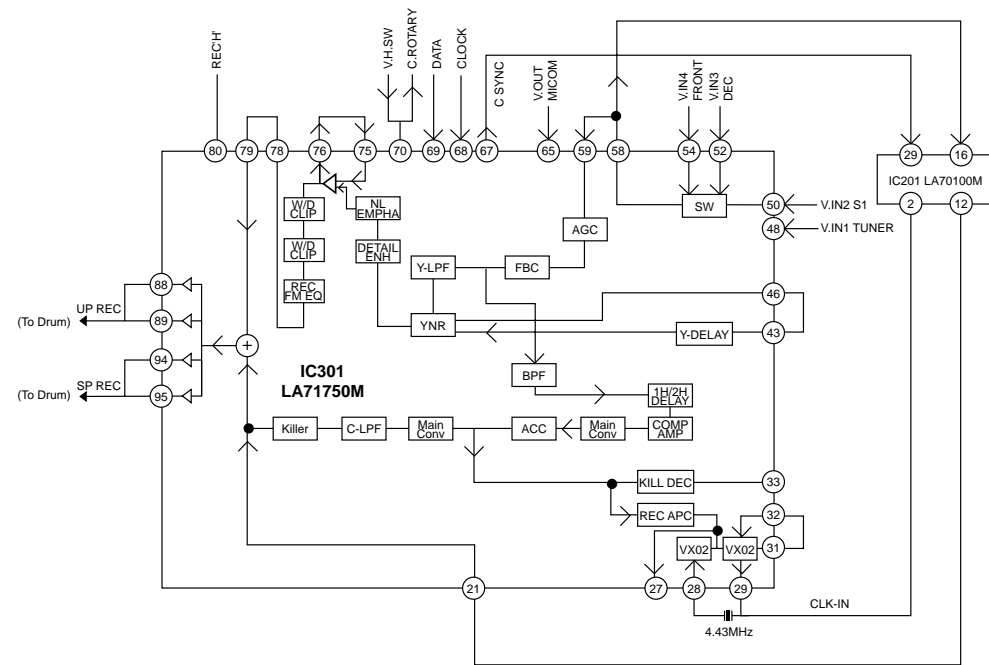


4. Y/C Block Diagram

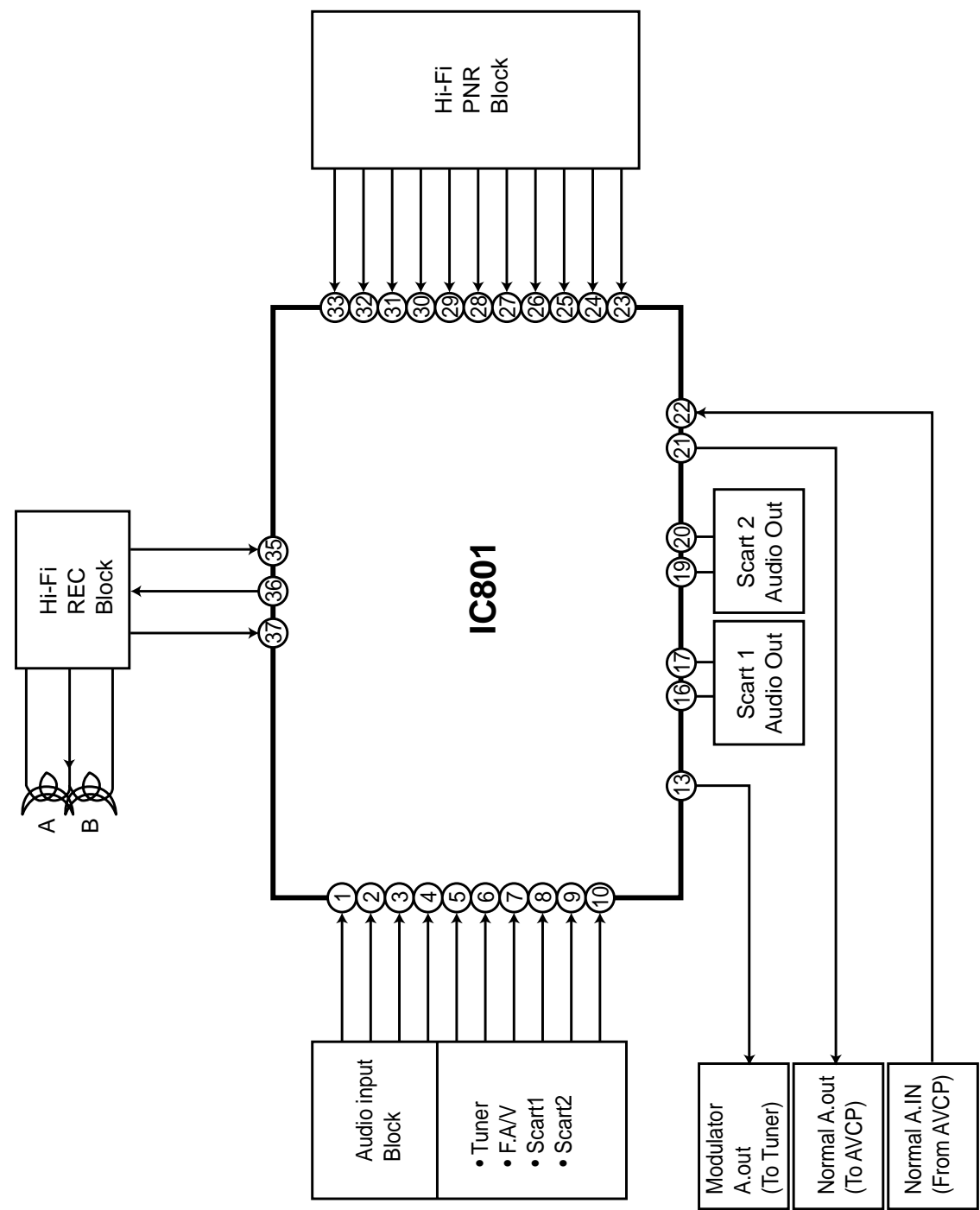
(PB MODE)



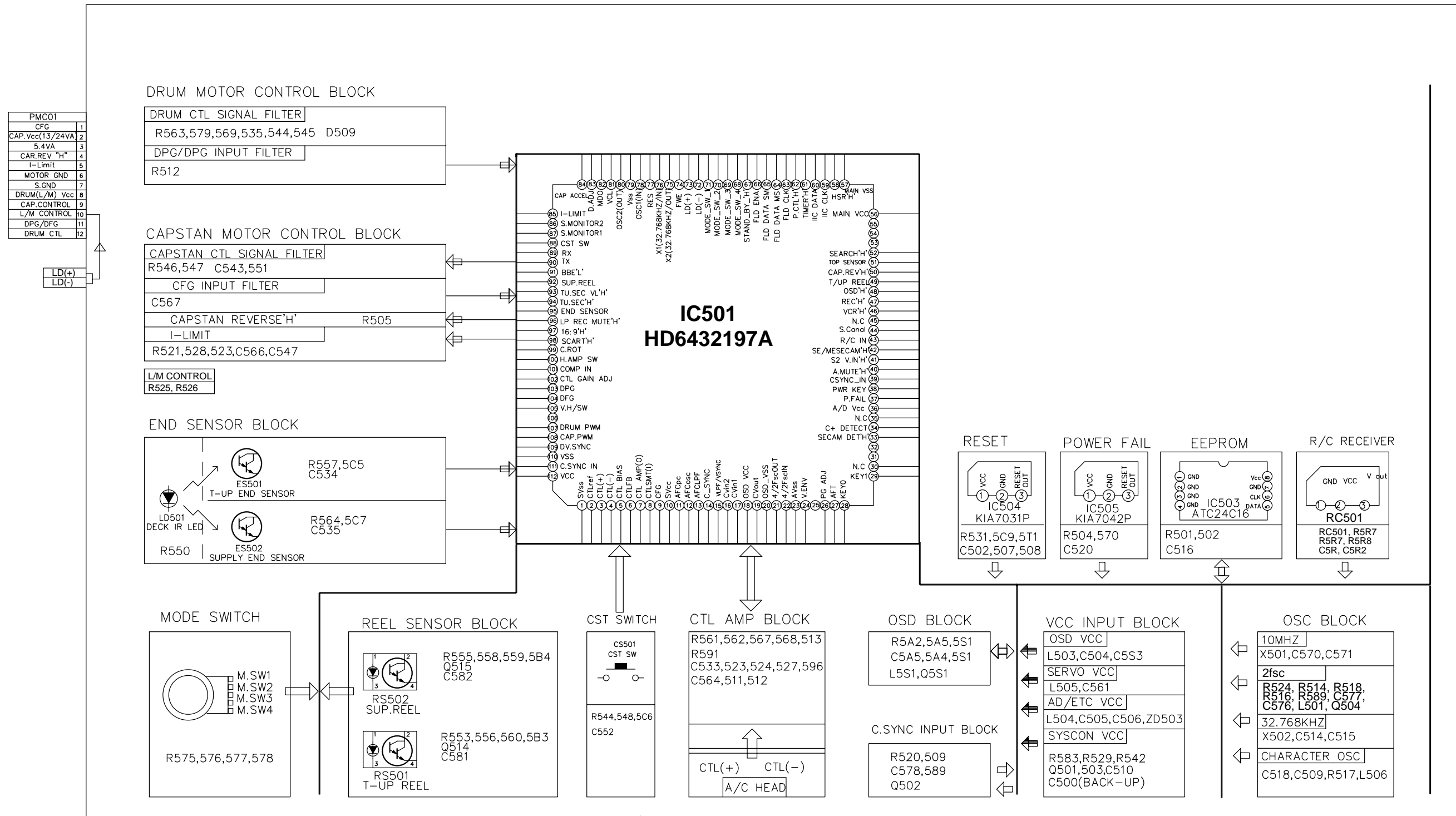
(REC MODE)



5. Hi-Fi Block Diagram



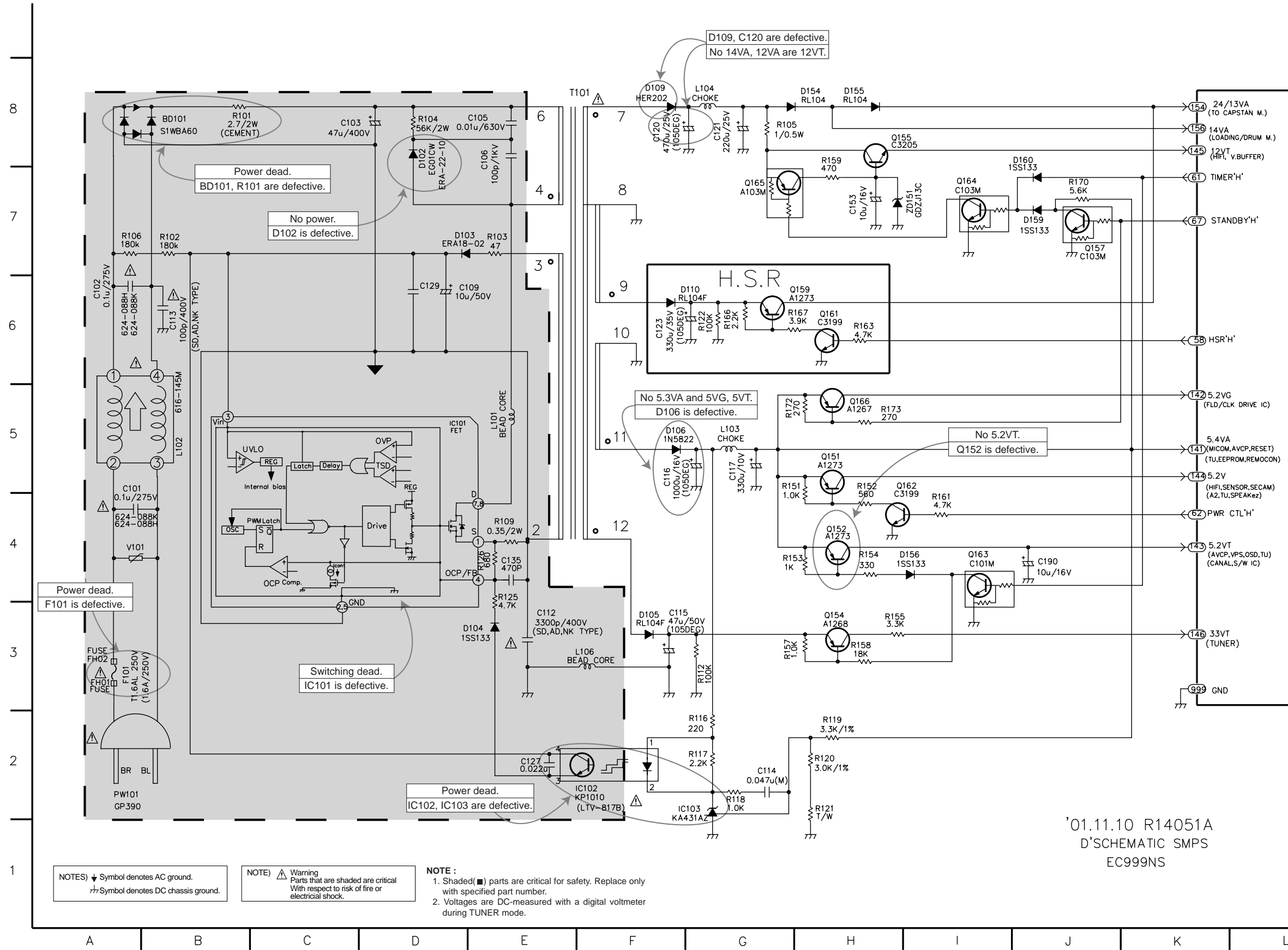
6. System Block Diagram





# CIRCUIT DIAGRAMS

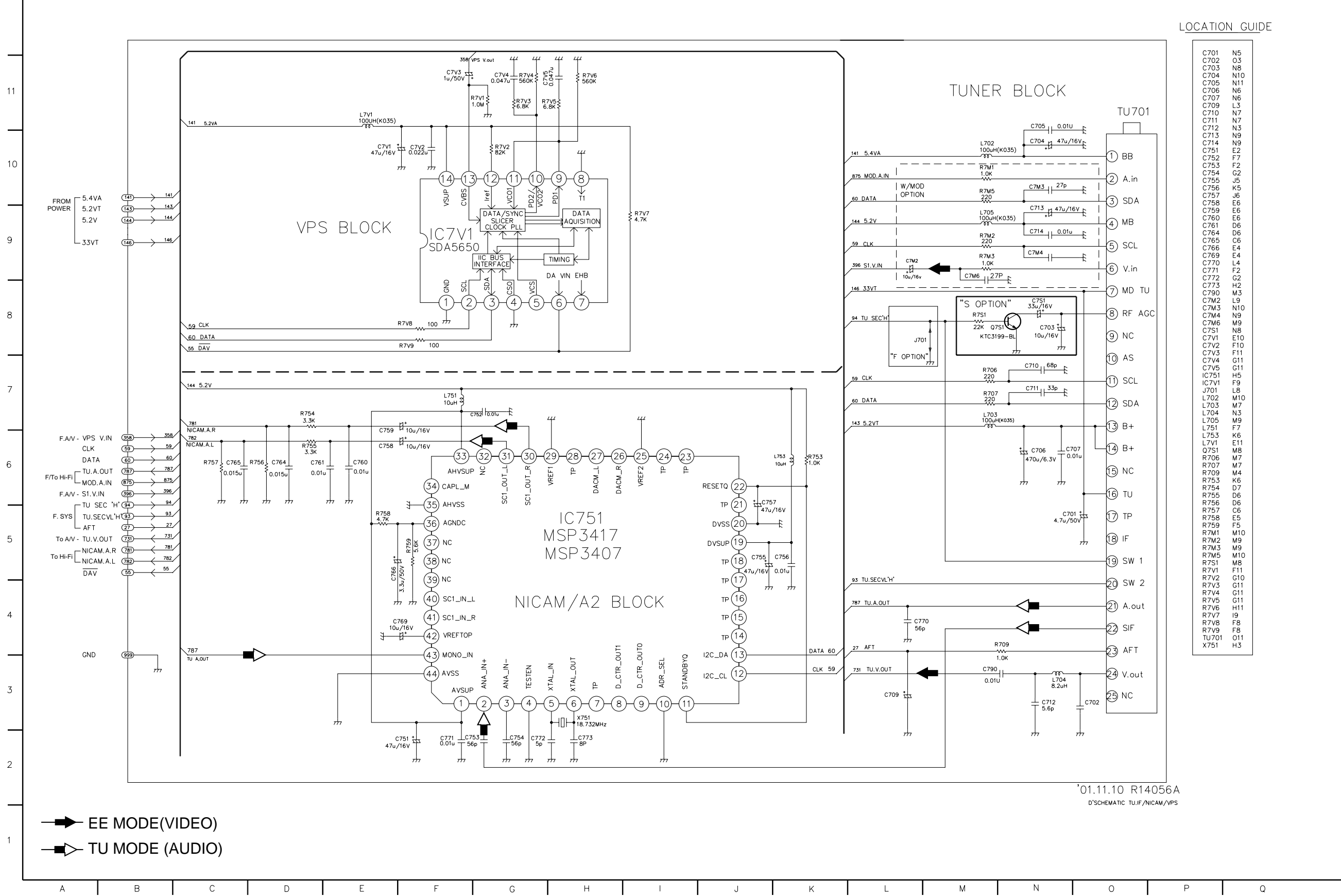
## 1. Power Circuit Diagram



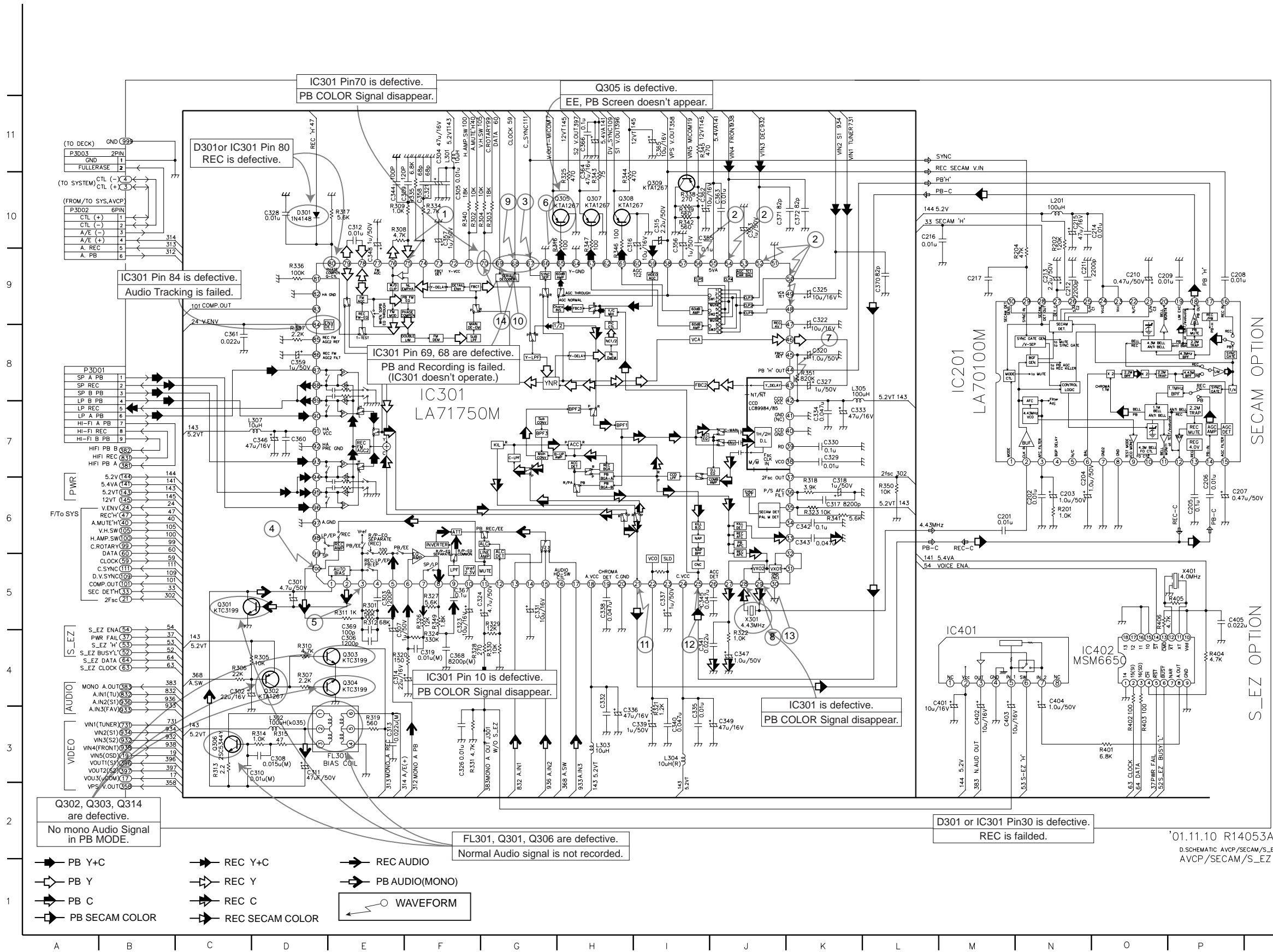
LOCATION GUIDE			
BD101	B8	Q154	H3
C101	A5	Q155	H8
C102	A6	Q157	J7
C103	C8	Q159	G6
C105	E8	Q161	H6
C106	E7	Q162	H5
C109	D6	Q163	I4
C112	E3	Q164	I7
C113	B6	Q165	G7
C114	G2	Q166	H5
C115	F3	R101	B8
C116	F5	R102	B7
C117	G5	R103	E7
C120	F8	R104	D8
C123	F6	R105	G8
C127	E2	R106	A7
C129	D6	R109	E4
C135	E4	R112	G3
C153	H7	R116	G2
C159	G7	R117	G2
C190	J4	R118	G2
D102	D7	R119	H2
D103	D7	R120	H2
D104	D3	R121	H2
D105	F3	R122	G6
D106	F5	R125	E4
D109	F8	R126	E4
D110	F6	R151	G5
D154	H8	R152	H5
D155	H8	R153	G4
D156	H4	R154	H4
D159	J7	R155	H3
D160	J8	R157	G3
FH01	A3	R158	H3
FH02	A3	R159	H8
IC101	D5	R161	I4
IC102	F2	R163	H6
IC103	F2	R166	G6
L101	E5	R167	G6
L102	B5	R170	J7
L103	G5	R172	G5
L104	G8	R173	H5
L106	E3	T101	E8
PW101	A2	V101	A4
Q151	H5	ZD151	I7
Q152	H4		

'01.11.10 R14051A  
D'SCHEMATIC SMPS  
EC999NS

2. Tuner, NICAM Circuit Diagram



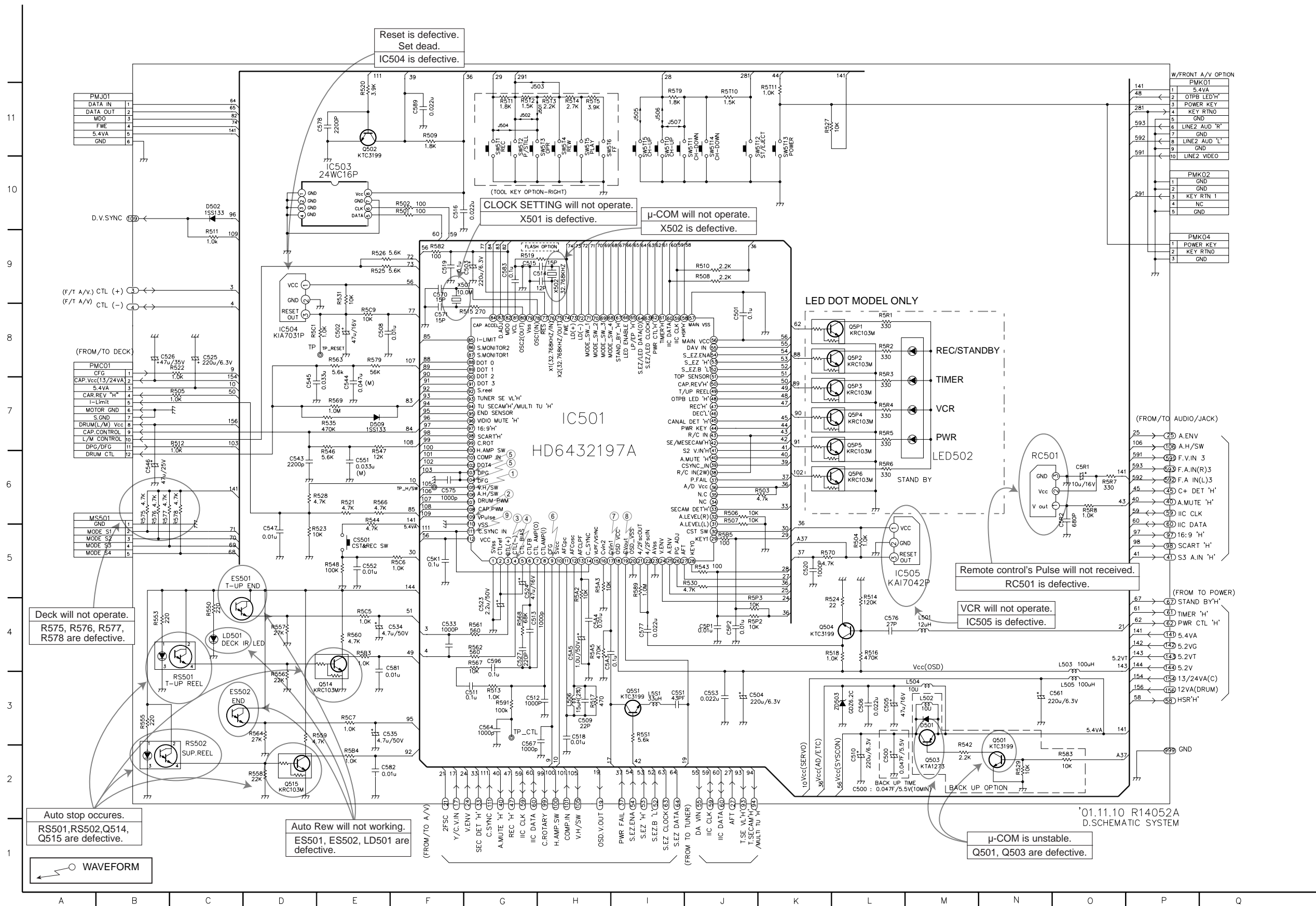
3. A/V, SECAM, VPS Circuit Diagram



LOCATION GUIDE

C201	M6	L302	D3
C202	N6	L303	H3
C203	N6	L304	H3
C204	N6	L305	K8
C205	P6	L307	C7
C206	P6	P3001	A8
C207	P6	P3002	A10
C208	P9	P3003	F11
C209	O9	Q301	C5
C210	O9	Q302	D4
C211	N9	Q303	E4
C212	N9	Q304	E4
C213	N9	Q305	G10
C214	O10	Q306	C5
C215	N10	Q307	H10
C216	L10	Q308	H10
C217	M9	Q309	I10
C301	D5	R201	N6
C302	C4	R202	N9
C303	E5	R204	N9
C304	F11	R301	E5
C305	F10	R302	F10
C306	E4	R303	G10
C307	E4	R304	G10
C308	D3	R305	D4
C309	F10	R306	C4
C310	C3	R307	D4
C311	D3	R308	E10
C312	O9	R309	E10
C313	E3	R310	D4
C314	E4	R311	E5
C315	I10	R312	E5
C316	H9	R313	C3
C317	K6	R314	D3
C318	K6	R315	D3
C319	F4	R316	H9
C320	K8	R317	E10
C321	F10	R318	K6
C322	K9	R319	E3
C323	F4	R320	E4
C324	G5	R321	I3
C325	K9	R322	J4
C326	K5	R323	K6
C327	K8	R324	F4
C328	D10	R325	H10
C329	K7	R326	F5
C330	K7	R327	F5
C331	G5	R328	F4
C332	H3	R329	G5
C333	K7	R330	G4
C334	K7	R331	F3
C335	I3	R334	F10
C336	H3	R335	F10
C337	I5	R336	D8
C338	H5	R337	D9
C339	H3	R338	I10
C340	I3	R339	I10
C341	I4	R340	F10
C342	K6	R341	K6
C343	K6	R342	I10
C344	E10	R343	H10
C345	I5	R344	H10
C346	D7	R345	I11
C347	J4	R346	H9
C348	E9	R347	H9
C349	J3	R349	F5
C350	J10	R350	L6
C351	I10	R351	K8
C352	I9	R401	O3
C353	F10	R402	O3
C354	F10	R403	O3
C355	D8	R404	P4
C356	D7	R405	P5
C357	C8	R406	O5
C358	I10	X301	J5
C359	J10	X401	P5
C360	H10		
C361	I11		
C362	H11		
C363	F5		
C364	F4		
C365	E5		
C366	L9		
C367	J10		
C368	K10		
C369	L4		
C370	M3		
C371	N4		
C372	P5		
C373	D10		
C374	E3		
C375	M8		
C376	F8		
C377	M4		
C378	G3		
C379	N10		
C380	F11		

4. System Circuit Diagram

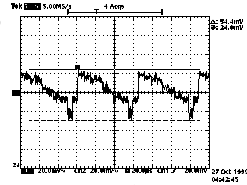




# WAVEFORM & VOLTAGE SHEET

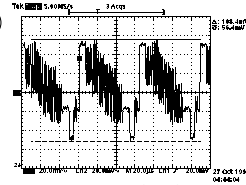
## \_ IC301 Oscilloscope Waveform

①



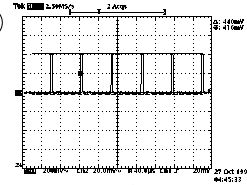
IC301 Pin 75  
PB mode  
500mVp-p

②



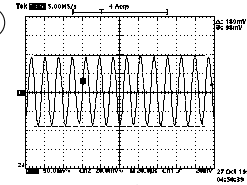
IC301 Pins 48, 50, 52  
Video in 1Vp-p

③



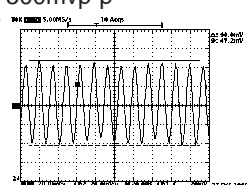
IC301 Pin 67  
PB/REC mode  
4.0Vp-p

④



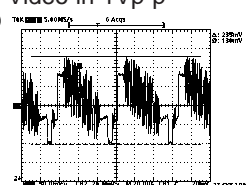
IC301 Pin 100  
REC mode  
1.1Vp-p

⑤



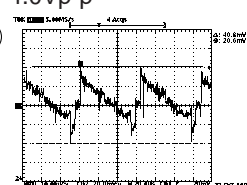
IC301 Pin 3  
REC mode  
2.0Vp-p

⑥



IC301 Pin 65  
PB mode  
2.02Vp-p

⑦



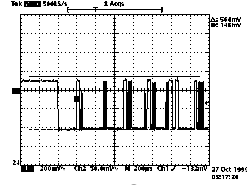
IC301 Pin 43  
PB mode  
400mVp-p

⑧



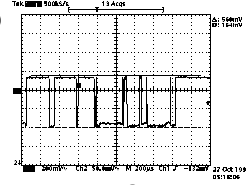
IC301 Pin 28  
PB mode  
400mVp-p

⑨



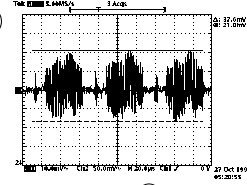
IC301 Pin 68  
PB/REC mode  
5Vp-p

⑩



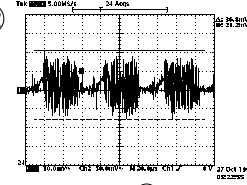
IC301 Pin 69  
PB/REC mode  
5Vp-p

⑪



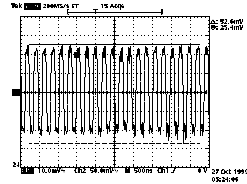
IC301 Pins 21  
REC mode  
340mVp-p

⑫



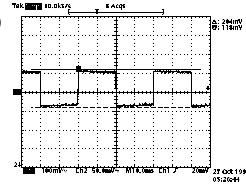
IC301 Pins 25  
PB mode  
300mVp-p

⑬



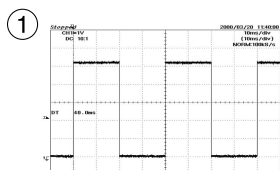
IC301 Pin 29  
PB mode  
400mVp-p

⑭

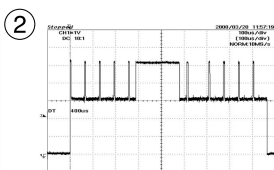


IC301 Pin 70  
PB mode  
3.6Vp-p

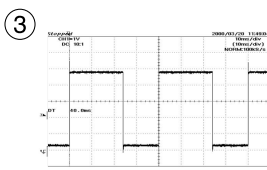
## \* IC501 Waveform Photographs



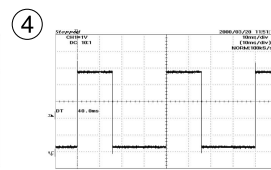
V.HSW  
(IC501 Pin 105)  
1V/10mS  
REC/PB MODE



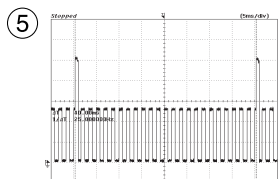
DV.SYNC  
(IC501 PIN 109)  
1V/100uS  
QUE/REV MODE



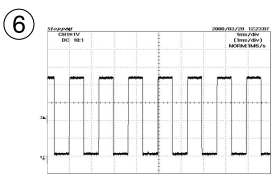
CTL(+)  
(IC501 Pin 3)  
1V/10mS



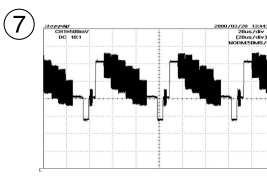
CTL(-)  
(IC501 Pin4)  
1V/10mS



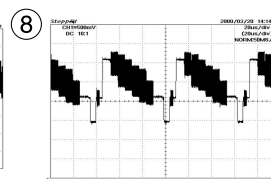
DFG/FG  
(IC501 PIN 103,104)  
1V/10mS  
REC/PB MODE



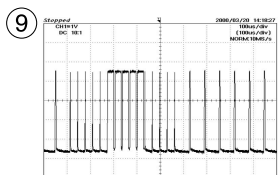
CFG  
(IC501 Pin9)  
1V/10mS



V.IN  
(IC501 Pin 17)  
500mV/20uS

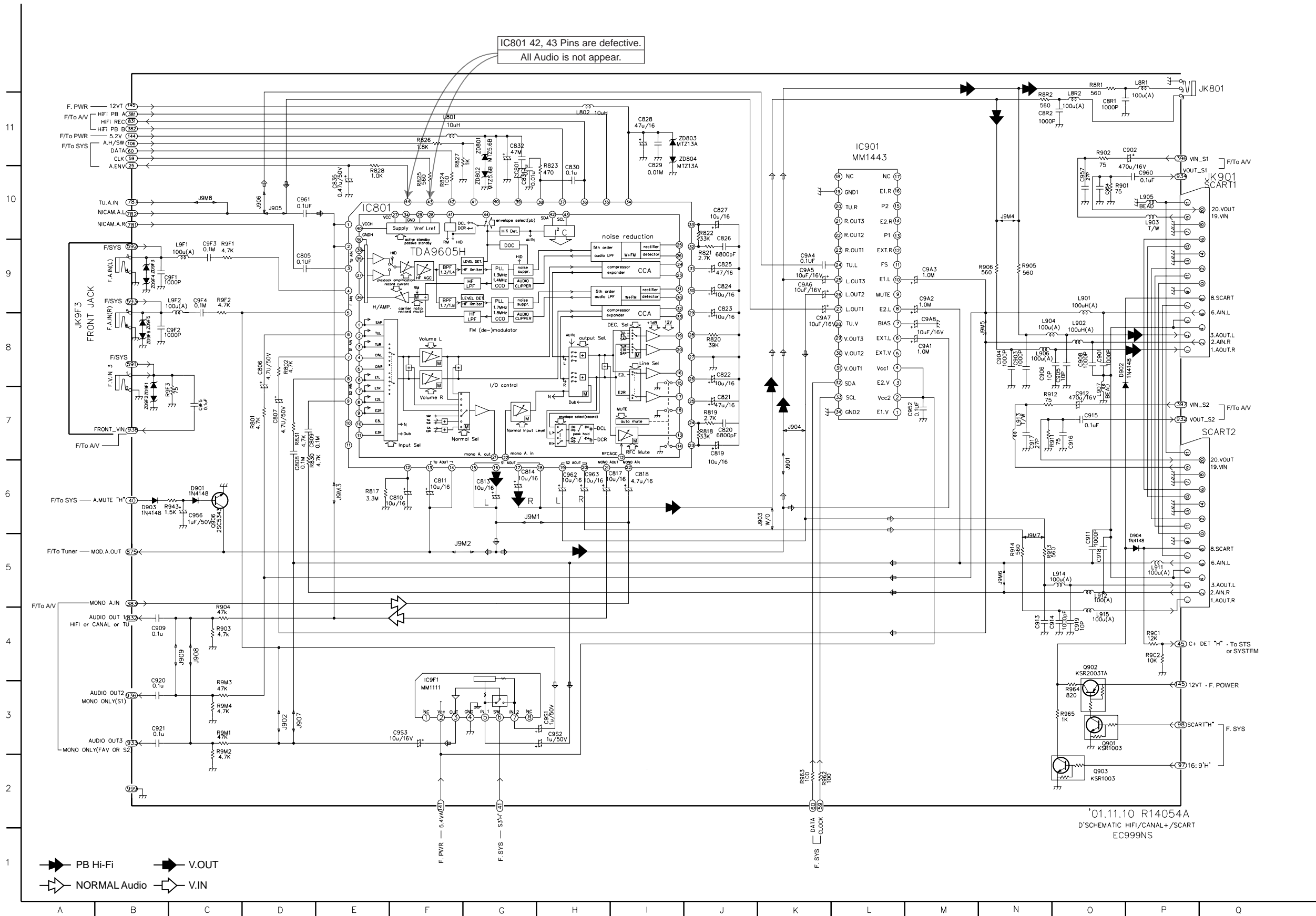


V.OUT  
(IC501 Pin 19)  
500mV/20uS  
EE/PB MODE



C.SYNC  
(IC501 Pin 111)  
1.0V/100uS  
EE/PB MODE

5. Hi-Fi, SCART Circuit Diagram



• CIRCUIT VOLTAGE CHART

MODE PIN NO.	EE	PB	REC
IC 103			
R	2.45	2.45	2.44
A	-0.03	-0.03	0
K	4.05	4.06	4.07
IC 201			
1	2.52	2.52	2.52
2	2.4	2.41	2.41
3	0	3.35	3.37
4	0	2.59	0
5	0	0	0
6	2.8	3.72	0
7	0	0	0
8	0	0	0
9	3.04	3.02	3.04
10	2.53	2.51	0
11	2.1	2.08	2.19
12	3.32	1.96	3.25
13	4.01	4.01	4.01
14	2.55	2.54	2.56
15	3.06	1.94	3.06
16	6.2	3.2	3.22
17	2.34	4.25	0.22
18	0.13	3.44	0.13
19	2.23	2.21	2.22
20	2.08	2.22	2.06
21	2.27	2.4	2.28
22	1.42	1.43	0
23	5.05	5.02	5.06
24	5.05	5.02	5.06
25	2.31	2.07	2.37
26	2.3	2.02	2.38
27	2.09	2.08	2.11
28	0.18	0.19	0.18
29	0.48	0.26	0.41
30	2.08	2.07	2.11
IC 401			
1	0	0.01	0
2	5.21	5.2	5.21
3	2.19	2.2	2.19
4	0	0	0
5	2.91	2.91	2.91
6	0	0	0
7	2.92	2.92	2.92
8	0	0	0
IC 402			
1	0	0	0
2	2.86	2.86	2.85
3	5.15	5.16	0
4	5.29	5.29	5.29
5	4.94	4.94	4.94
6	5.29	5.29	5.29
7	5.29	5.2	5.29
8	2.57	2.57	2.57
9	0	0	0
10	5.29	5.29	5.29

MODE PIN NO.	EE	PB	REC
11	2.41	2.41	2.42
12	2.1	2.1	2.08
13	0	5..29	5.29
14	5.26	5.26	5.25
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
IC 301			
1	5.15	5.14	1.7
2	0.02	0.03	0.75
3	2.29	2.29	0
4		1.46	0.5
5	2.28	2.26	2.47
6	2.29	2.28	2.29
7	2.28	2.28	2.27
8	2.27	2.27	2.27
9	2.26	2.26	3.05
10	2.29	2.29	2.28
11	2.37	2.39	2.28
12	0	0.02	0.11
13	2.26	2.3	2.28
14		0.02	
15	2.26	2.26	2.29
16	5.17	0.16	5.05
17	2.26	2.26	2.27
18	5.17	5.17	5.14
19	4.24	4.25	3.07
20	0	0	0
21	3.36	1.96	3.25
22	3.07	3.06	3.06
23	3.06	3.03	3.05
24	5.16	5.16	5.13
25	0.13	3.44	5.13
26	1.44	1.82	0
27	2.07	2.1	1.42
28	4.23	4.21	4.18
29	2.83	2.83	2.9
30	0	0	0
31	4.7	4.7	4.69
32	4.7	4.7	4.69
33	2.85	2.06	2.07
34	0.33	0.31	0.31
35	2.17	2.16	2.16
36	3.35	3.35	3.35
37	2.09	2.11	2.09
38	1.99	2.03	2.02
39	9.45	9.43	9.39
40	0	0	0
41	0	0	0
42	5.17	5.16	5.14
43	2.4	2.42	2.39
44	2.34	4.42	0.08
45	2.33	2.46	2.46
46	2.69	2.67	2.68

MODE PIN NO.	EE	PB	REC
47	4.17	4.17	4.17
48	2.35	2.37	2.33
49	3.18	3.18	3.18
50	1.97	1.97	1.97
51	0	0	0
52	1.97	1.97	1.97
53	2.34	2.35	2.35
54	1.97	1.99	1.99
55	5.24	5.24	5.24
56	2.25	2.31	2.29
57	2.02	2.14	1.99
58	2.37		2.4
59	2.94	2.95	2.93
60	1.42	1.55	1.38
61	1.72	1.85	2.05
62	0.09	0.11	0.11
63	1.75	1.84	
64	0	0	0.
65	1.85	1.85	1.81
66	0	0	0
67	0.	0.44	0.4
68	4.79	4.91	4.81
69	4.75	4.81	4.79
70	5.27	2.69	2.69
71	0.01	0	0.01
72	5.13	5.11	5.09
73		1.98	2.21
74	2.55	2.63	2.53
75	2.46	2.63	2.45
76	2.47	0.77	2.45
77	1.59	1.59	1.49
78	2.7	3.39	2.69
79	2.02	1.91	2.52
80	1.06	1.06	4.72
81	1.11	1.12	1.11
82	0	0	0
83	5.13	1.47	1.51
84	0.46	2.43	1.75
85	0	0	1.36
86		0	2.03
87	0	0.72	0.7
88	0.71	0.72	0.7
89	0.71	0.72	0.7
90	0.71	0.72	0.7
91	5.17	5.16	5.11
92	0	0	0
93	1.95	1.93	0.73
94	1.95	1.93	0.72
95	1.95	1.93	0.72
96	1.95	1.93	4.33
97	0	0	0
98	2.29	2.29	2.4
99	0	2.29	2.4
100	2.29	2.29	2.53

MODE PIN NO.	EE	PB	REC
IC 501			
1	0	0	0
2	2.39	2.57	2.57
3	2.57	2.57	3.04
4	2.57	2.57	2.1
5	2.57	2.57	2.57
6	2.56	2.57	2.57
7	2.58	2.59	2.58
8	2.55	2.55	2.55
9	4.62	2.31	2.31
10	4.85	5.16	5.016
11	1.89	1.91	1.9
12	1.89	1.9	1.89
13	2.61	2.5	2.49
14	0.4	0.4	0.4
15	0.08	0.1	0.56
16	1.99	1.91	1.98
17	2.39	2.34	2.31
18	5.14	5.14	5.11
19	2.41	2.37	2.33
20	0	0	0
21	2.47	2.47	0
22	2.46	2.46	0
23	0	0	0
24	0.51	2.47	0.01
25	2.81	2.88	2.8
26	5.27	2.28	5.28
27	2.46	2.5	2.54
28	5.27	5.28	5.28
29	5.22	5.27	5.27
30	0	5.01	0.05
31	0.17		1.9
32	0.12		
33	0.18	0.18	0.18
34	0.31	0.3	0.43
35	5.27	5.28	5.28
36	5.28	5.29	5.28
37	4.93	4.94	4.94
38	4.88	4.88	4.87
39	2.29	2.29	2.28
40	0	0	0
41	0	0	0
42	0	0	0
43	4.88	4.88	4.87
44	5.24	5.25	5.24
45	0	0	0
46	0	0	0
47	0	0	0
48	0	0	0
49	0.01	5.28	
50	5.25	0	0
51	4.48	0.04	0.02
52	5.28	5.29	5.29
53	0	0	0
54	5.25	5.26	5.27

MODE PIN NO.	EE	PB	REC
55	5.27	5.29	0.08
56	5.27	5.28	5.28
57	0	0	0
58	0	0	0
59	4.91	4.92	4.79
60	4.91	4.91	4.79
61	5.17	5.18	5.18
62	5.17	5.19	5.18
63	2.84	2.83	2.86
64	5.14	5.14	5.15
65	0.01	0.01	0.02
66	5.1	5.11	5.11
67	0.83	0.83	0.89
68	0.01	5.3	5.3
69	0.01	5.3	5.3
70	5.29	5.3	5.3
71	5.29	0	0.01
72	0.03	0.03	0.04
73	5.24	5.23	5.22
74	0	0	0
75	1.49	1.5	1.5
76	1.3	1.4	1.21
77	5.27	5.27	5.27
78	2.55	2.53	2.54
79	0	0	0
80	5.29	2.58	2.58
81	3.25	3.25	3.25
82	5.28	5.28	5.28
83	0	2.7	2.69
84	0	2.77	2.77
85	0	3.55	3.55
86	2.65	2.68	2.86
87	0	3.3	3.21
88	0	0	0
89	0	0	0
90	0	0	0
91	0	0	0
92	0.95	5.16	
93	0	0	0
94	0	0	0
95	0.29	0.1	0.07
96	0	0	0
97	0	0	0
98	5.26	5.26	5.25
99	0	2.7	0
100	0.01	0	0
101	0.7	0.13	0.57
102	0	0	0
103	0.12	1.39	1.39
104	0.12	1.39	1.39
105	0	2.7	0
106	0	2.64	5.12
107	0	2.75	2.74
108	0	2.78	2.77
109	0.05	0.05	0.05

MODE PIN NO.	EE	PB	REC
110	0	0	0
111	4.2	0.4	0.4
112	5.29	5.28	5.27
IC 503			
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	5.01	4.95	4.79
6	5.01	4.95	4.8
7	0	0	0
8	5.29	5.29	5.28
IC 504			
1	5.28	5.28	5.28
2	0	0	0
3	5.28	5.28	5.28
IC 505			
1	5.28	5.28	5.28
2	0	0	0
3	4.87	4.87	4.87
IC 7V1			
1	0	0	0
2	5.01	4.94	4.79
3	5.01	4.94	4.78
4	0	0	0
5	5.28	5.28	0.39
6	5.28	5.28	
7	0	0	2.66
8	0	0	0
9	0.01	0.01	2.31
10	0	0	2.36
11	0.01	0	2.31
12	1.56	1.56	1.56
13	0.99	0.99	1.39
14	5.28	5.29	5.28
IC 801			
1	2.84	2.91	2.7
2	2.92	2.91	2.81
3	2.91	2.9	2.81
4	2.82	2.81	2.68
5	2.8	2.86	2.67
6	2.8	2..86	2.66
7	2.79	2.85	2.65
8	2.78	2.85	2.65
9	2.79	2.84	2.66
10	2.79	2.84	2.66
11	2.77	2.83	2.65
12	2.76	2.82	2.64
13	2.71	2.75	2.59
14	2.49	2.51	2.33
15	2.48	2.51	2.32
16	2.64	2.67	2.49
17	2.64	2.68	2.5
18	1.48	2.57	2.32
19	2.63	2.67	2.5

MODE PIN NO.	EE	PB	REC
20	2.6	2.63	2.5
21	2.57	2.59	2.47
22	2.66	2.86	2.55
23	2.63	2.64	2.51
24	2.5	2.5	2.39
25	2.52	2.53	2.4
26	2.36	2.37	2.27
27	0.01	0	0
28	2.51	2.47	2.41
29	2.6	2.57	2.46
30			
31	2.34	2.41	1.38
32	0.03	0.02	-0.07
33	0.03	0.04	-0.06
34	12.6	12.5	12.57
35	3.35	3.31	2.89
36	3.29	3.3	2.9
37	3.29	3.3	2.9
38	3.55	3.56	3.42
39	0	0	0.01
40	5.2	5.2	5.21
41	2.27	2.29	2.5
42	4.96	4.98	4.91
43	5.05	5.06	4.97
44	2.8	2.79	2.69
IC751			
1	5.14	5.15	5.15
2	1.51	1.51	1.51
3	1.51	1.51	1.51
4	0	0	0
5	2.47	2.48	2.48
6	2.47	2.48	2.48
7	0.54	0.5	0.46
8	0	0	0.45
9	0	0	0.45
10	0	0	0
11	5.16	5.16	5.16
12	4.91	4.86	4.79
13	4.9	4.8	4.79
14	2.58	0.51	0.57
15	2.58	0.5	0
16	2.41	0.51	0.57
17	0.53	0.53	0
18	0.54	0.51	0.58
19	5.13	5.14	5.14
20	0	0	0
21	0.53	0.51	0
22	5.16	5.16	5.16
23	0	0.02	0
24	0	0.02	0
25	0	0	0
26	0	0.05	0
27	0.05	0.05	0
28	0	0	0
29	0	0	2.8





## 1. MAIN P.C.Board



## LOCATION GUIDE

B0101	B10	C338	H9	C567	I5	C811	H12	D156	A4	L506	J4	Q751	P7	R338	J6	R575	D4	R823	J11
C009	C10	C339	H8	C568	I4	C812	H13	D157	A5	L507	J5	Q752	P8	R339	J7	R576	D5	R824	J12
C102	B1	C340	H8	C571	I3	C814	H12	D160	B4	L551	K4	Q902	O3	R340	J3	R577	D4	R825	L9
C1103	A10	C341	H8	C572	J2	C817	K11	D190	L8	T702	O12	Q903	O3	R341	H7	R578	D4	R826	J3
C1104	A10	C342	H8	C573	J2	C818	K12	D191	L8	T703	O13	Q904	O4	R342	H8	R579	D5	R827	J4
C106	B6	C343	H8	C577	I5	C820	H11	D502	K2	L704	B6	R101	B10	R343	N1	R582	F2	R828	J11
C109	A9	C344	K9	C578	L4	C820	H10	D503	K2	L705	O10	R102	A10	R344	O10	R583	O3	R829	J12
C109	A8	C345	H8	C581	I3	C821	G11	D909	O12	L706	O12	R103	B4	R345	H6	R584	I5	R830	J12
C111	C11	C346	H8	C582	L3	C823	G11	D903	F12	L717	O10	R105	B4	R346	H6	R585	I5	R831	J12
C114	C8	C347	H8	C583	I3	C823	G11	D903	F12	L717	O10	R105	B4	R347	L8	R542	J4	R882	O10
C115	A6	C348	K9	C584	L3	C824	G12	D904	H6	L801	J11	R106	B10	R349	H9	R543	H5	N901	N12
C116	A6	C349	K9	C585	L3	C825	G12	D905	H6	L802	J12	R107	B10	R350	H9	R544	H5	N902	N12
C117	A5	C353	K9	C589	L4	C826	I11	E5042	M6	L881	O11	R112	A6	R351	I7	R543	F3	R903	H8
C120	B6	C355	J6	C594	J4	C827	I10	F301	H11	L902	O11	R116	F7	R341	L6	R584	L3	R904	H8
C121	B6	C356	J6	C595	J4	C828	I10	F302	H11	L903	O12	R117	F7	R342	L6	R585	L3	R905	H8
C123	A6	C357	L8	C561	I2	C829	I10	F301	H11	L902	O11	R118	C8	R402	E11	R5C1	F2	R906	K12
C127	A8	C358	L9	C562	J1	C830	I11	C101	A9	L903	N12	R119	A6	R403	E11	R5C5	C6	R911	N11
C128	A8	C359	L9	C563	J1	C831	I11	C102	A9	L904	N12	R120	A6	R404	E11	R5C6	C6	R912	N11
C135	B9	C360	K9	C561	J3	C832	J11	C103	A9	L905	N12	R121	C9	R405	D12	R5C7	F2	R913	L10
C153	C4	C361	L9	C591	H6	C835	J11	C104	E12	L906	L12	R122	A5	R406	D12	R5C8	F2	R914	L10
C154	C4	C362	L9	C592	H6	C836	J11	C105	E12	L907	L12	R123	A5	R407	D12	R5C9	F2	R915	L10
C201	G7	C363	K8	C591	F1	C839	J11	C103	M1	L911	N11	R126	A9	R502	L5	R5G2	I2	R962	N8
C202	F8	C364	H8	C592	F1	C901	L12	C104	F12	L912	L11	R151	B4	R503	H5	R5G3	I2	R963	N8
C203	F8	C365	H8	C593	F1	C902	L12	C105	F12	L913	L11	R152	B4	R504	H5	R5G4	I2	R964	N8
C204	F8	C366	H1	C553	K4	C903	K12	C127	D11	L914	L11	R153	A4	R505	E7	R5P2	O5	R965	O3
C205	F9	C367	H9	C101	P7	C904	L12	C591	B1	L915	L11	R154	A4	R506	F6	R5P3	O5	R9C1	L5
C206	F9	C368	H9	C102	P8	C905	L12	C592	B1	L916	L11	R155	F6	R507	F6	R5P4	O5	R9C2	L5
C207	F9	C369	L9	C703	O10	C906	L	J501	B1	L917	L11	R157	A4	R508	F5	R5R2	I2	R9C1	L5
C208	F9	C370	L9	C704	O12	C908	L	J502	B1	L918	L11	R158	A4	R509	L5	R5R3	I2	R9C2	M6
C209	F10	C371	J8	C705	O13	C909	O9	J503	B2	L919	L11	R159	A5	R510	F5	R5R4	I2	R9C3	M6
C210	F10	C372	J8	C706	P7	C910	O9	J504	B2	L920	L11	R160	A5	R511	F5	R5R5	I2	R9C4	M6
C211	E10	C373	I6	C707	P10	C912	N10	J505	L1	M501	O5	R163	O8	R512	H8	R5R6	K2	R9M2	H8
C212	E10	C374	L7	C708	P10	C913	L11	J506	L1	P3001	L10	R166	C9	R513	C8	R5R7	K2	R9M3	O8
C213	E10	C375	L7	C709	P10	C914	L11	J507	L1	P3002	L10	R167	C9	R514	C8	R5R8	K2	R9M4	O8
C214	E10	C442	F12	C711	P10	C915	N11	J508	N2	P3003	N8	R170	B3	R515	K3	R5S1	L5	R5C01	E1
C215	F10	C443	F12	C712	P9	C916	N11	J701	P9	PM001	E8	R172	B3	R516	J4	R511	E1	R5C02	F3
C216	F10	C444	F12	C713	P9	C917	N11	J702	P9	PM002	E8	R173	B3	R517	J4	R512	E1	R5C03	F3
C217	F8	C445	D11	C714	P11	C918	L11	J712	E11	PM001	O2	R201	F8	R518	J4	R511	N10	SW61	D1
C218	F10	C406	E11	C751	N4	C919	L11	J901	K12	PM001	E8	R202	F9	R519	F3	R512	B1	SW510	L11
C219	F10	C407	E11	C752	N4	C920	L11	J902	K12	PM002	E8	R203	F9	R520	F3	R513	B1	SW511	L11
C303	L9	C501	G4	C753	N4	C921	H8	J903	L18	PM101	A12	R301	L9	R521	H2	R514	A2	SW112	O2
C304	L8	C502	F2	C754	N3	C922	H9	J904	L18	PM101	A12	R302	M6	R522	E7	R515	A2	SW113	P2
C305	L8	C503	F2	C755	N3	C923	H9	J905	L18	PM101	A12	R303	M6	R523	E7	R516	A2	SW114	P2
C306	L9	C504	K4	C756	P3	C924	H8	J906	N8	PM101	A12	R304	J3	R524	J5	R506	P10	SW115	K1
C307	L10	C505	F3	C757	P4	C925	N12	J907	N10	PM101	A12	R305	H10	R525	E4	R707	P10	SW121	E1
C308	L10	C506	F3	C758	P4	C926	N12	J908	N10	PM101	A12	R306	H10	R526	E4	R708	P10	SW122	E1
C309	F10	C507	K4	C759	O5	C927	H9	J909	H8	PM101	A12	R307	N12	R527	O2	R753	O3	SW123	E2
C310	F11	C508	K4	C760	O5	C928	H9	J910	H8	PM101	A12	R308	K8	R528	E9	R754	P5	SW124	E2
C311	F11	C509	K4	C761	O5	C929	H9	J911	H8	PM101	A12	R309	K8	R529	E9	R755	P5	SW125	E2
C312	F9	C511	K3	C765	O5	C931	M9	J913	L9	PM101	A12	R310	H10	R530	H6	R756	O5	SW126	E2
C313	F11	C512	K3	C766	O5	C932	N10	J914	K11	PM101	A12	R311	J9	R531	F2	R757	O5	SW127	P12
C314	H8	C513	C767	A5	N3	C933	N10	J915	K11	PM101	A12	R312	J9	R532	F2	R758	O5	SW128	P12
C315	H8	C514	C768	A5	N3	C934	N10	J916	K11	PM101	A12	R313	J9	R533	F2	R759	O5	SW129	P12
C316	L8	C515	G3	C770	O8	C935	N8	J917	J12	PM101	A12	R314	F12	R534	H6	R7M1	O11	X401	D12
C317	L8	C516	M6	C771	N4	C936	M9	J918	M7	PM101	A12	R315	F12	R535	R2	R7M2	P11	X501	G3
C318	L8	C517	M6	C772	N4	C937	M9	J919	M7	PM101	A12	R316	F12	R536	R2	R7M3	P11	X502	G3
C319	L9	C519	G2	C773	N3	C938	O9	J980	M12	PM101	A12	R317	K9	R537	G4	R7M5	P11	X511	N4
C320	J7	C520	O3	C774	N8	C941	O1	JK95	P1	PM101	A12	R318	L8	R538	M2	R751	O7	SW151	B4
C321	J7	C521	O3	C775	N8	C942	O1	JK96	P1	PM101	A12	R319	L8	R539	M2	R752	O7	SW152	B4
C322	J7	C524	J4	C7M5	P11	C943	P3	L112	B12	PM101	A12	R320	L9	R540	F3	R7V2	O10	ZB001	J11
C323	F9	C525	O9	C7M6	P11	C944	P3	L113	A5	PM101	A12	R321	H8	R555	K4	R7V3	O10	ZB002	J11
C324	F9	C526	O9	C7M7	P11	C945	P3	L114	A5	PM101	A12	R322	H8	R556	K4	R7V4	O10	ZB003	J11
C325	H8	C527	K3	C7M8	P11	C946	P3	L116	C10	PM101	A12	R323	I7	R557	C5	R7V5	E10	ZB004	M11
C326	G11	C531	F7	C7V1	O11	C952	N20	L120	L10	PM101	A12	R324	H9	R558	K4	R7V6	E10	ZB091	P1
C327	H8	C532	F7	C7V2	O11	C953	N20	L121	L10	PM101	A12	R325	H9	R559	K4	R7V7	E10	ZB092	P1
C328	H8	C533	F7	C7V3	O11	C954	N20	L122	L10	PM101	A12	R326	H9	R560	F3	R7V8	E11	ZB093	F2
C329	H8	C534	F7	C7V4	O10	C955	D12	B8	L305	PM101	A12	R327	H9	R561	G6	R7V9	E11	ZB094	F2
C330	H8	C535	F7	C7V5	O10	C956	D12	B8	L306	PM101	A12	R328	H9	R562	G6	R7V10	E11	ZB095	F2
C331	O9	C545	G2	C801	J11	D104	A8	L305	I7	PM101	A12	R329	F10	R563	G2	R802	J12	ZB096	O2
C332	O9	C546	G2	C802	H9	D105	A7	L307	I10	PM101	A12	R330	O9	R564	M9	R817	I2	ZB097	O2
C333	O9	C547	G2	C803	H9	D106	A7	L308	I10	PM101	A12	R331	O9	R565	M9	R818	I2	ZB098	O2
C334	L8	C551	F2	C804	H9	D109	E8	L502	B2	PM101	A12	R334	L8	R567	K3	R819	H11	ZB099	O2
C335	L8	C552	M2	C808	K11	D110	A7	L503	K4	PM101	A12	R335	L8	R568	K3	R820	G11	ZB100	O2
C336	H9	C561	K3	C809	J12	D111	O9	L504	O3	PM101	A12	R336	K9	R569	O2	R821	H11	ZB101	O2
C337	H9	C562	K3	C810	J12	D112	O9	L505	O3	PM101	A12	R337	K9	R570	O2	R822	H11	ZB102	O2