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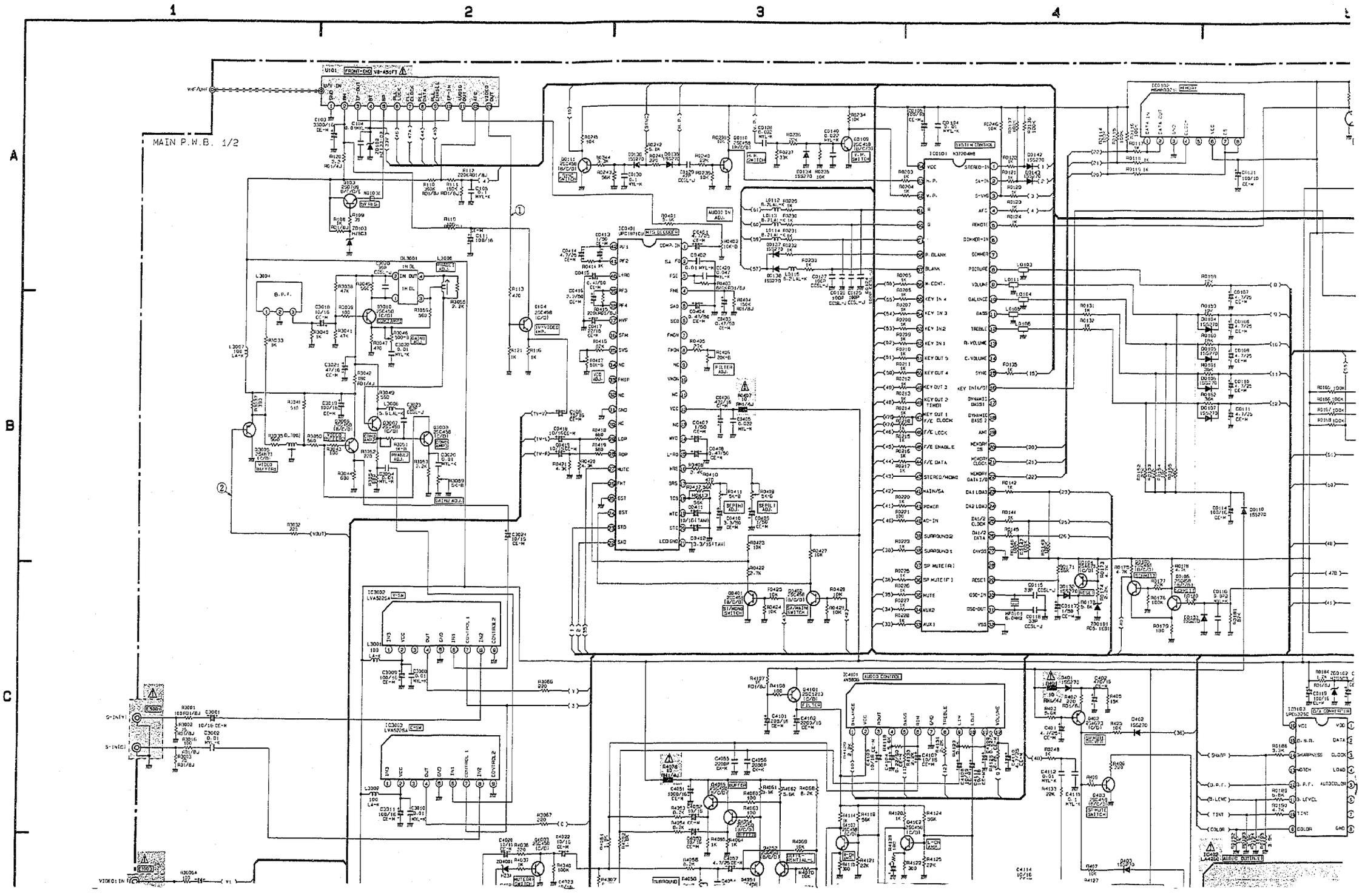
BASIC CIRCUIT DIAGRAM



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BASIC CIRCUIT DIAGRAM

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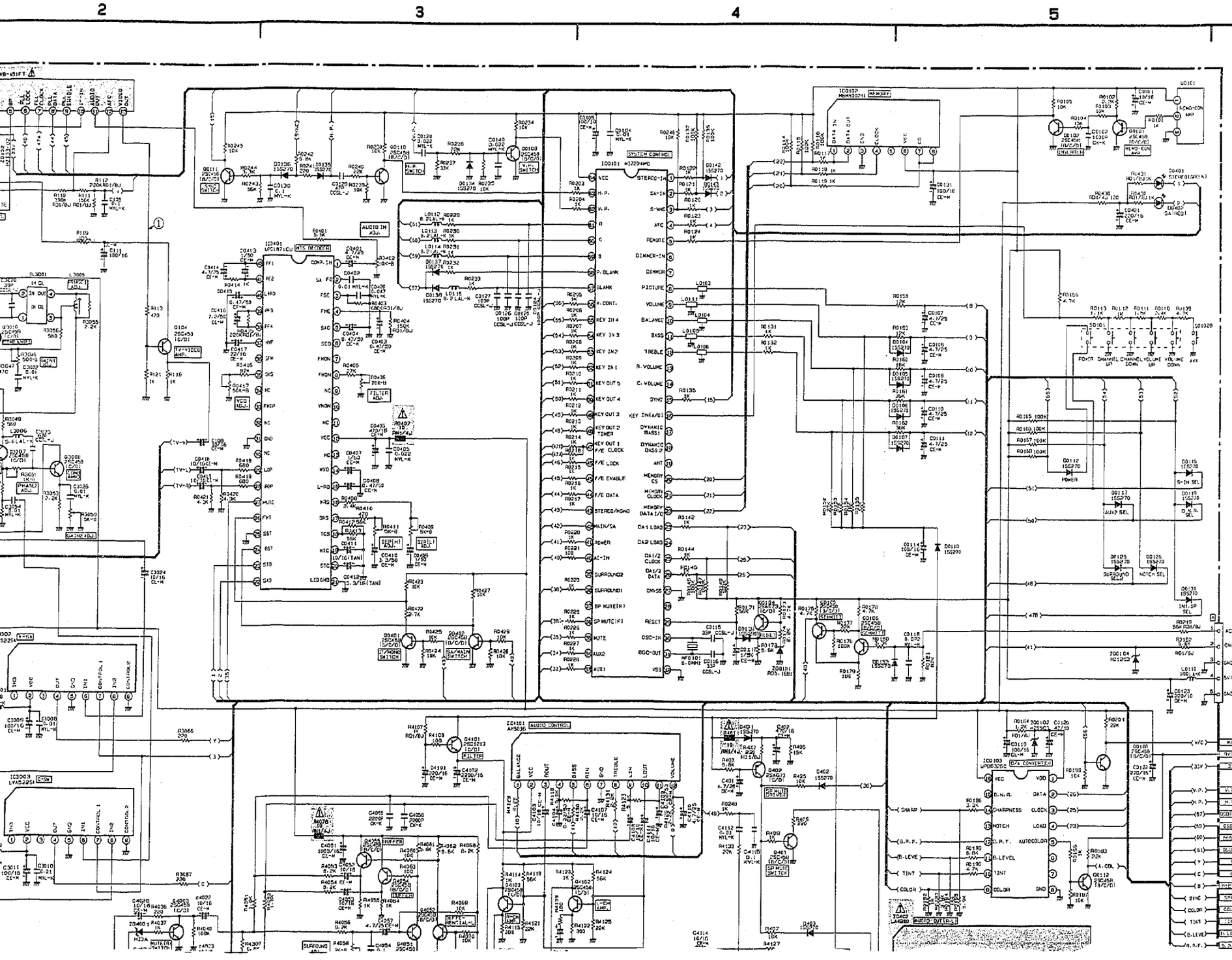


Circuit No.	E	C	B
Q0109	0	4.9	0
Q0110	0	4.4	0
Q0111	0	0	0.6
Q103	5.6	9.5	6.2
Q104	1.6	9.0	2.2
Q3005	5.0	0	4.3
Q3006	6.1	9.4	6.8
Q3007	2.1	6.8	2.7
Q3008	1.4	6.8	2.1
Q3010	2.7	4.7	3.4

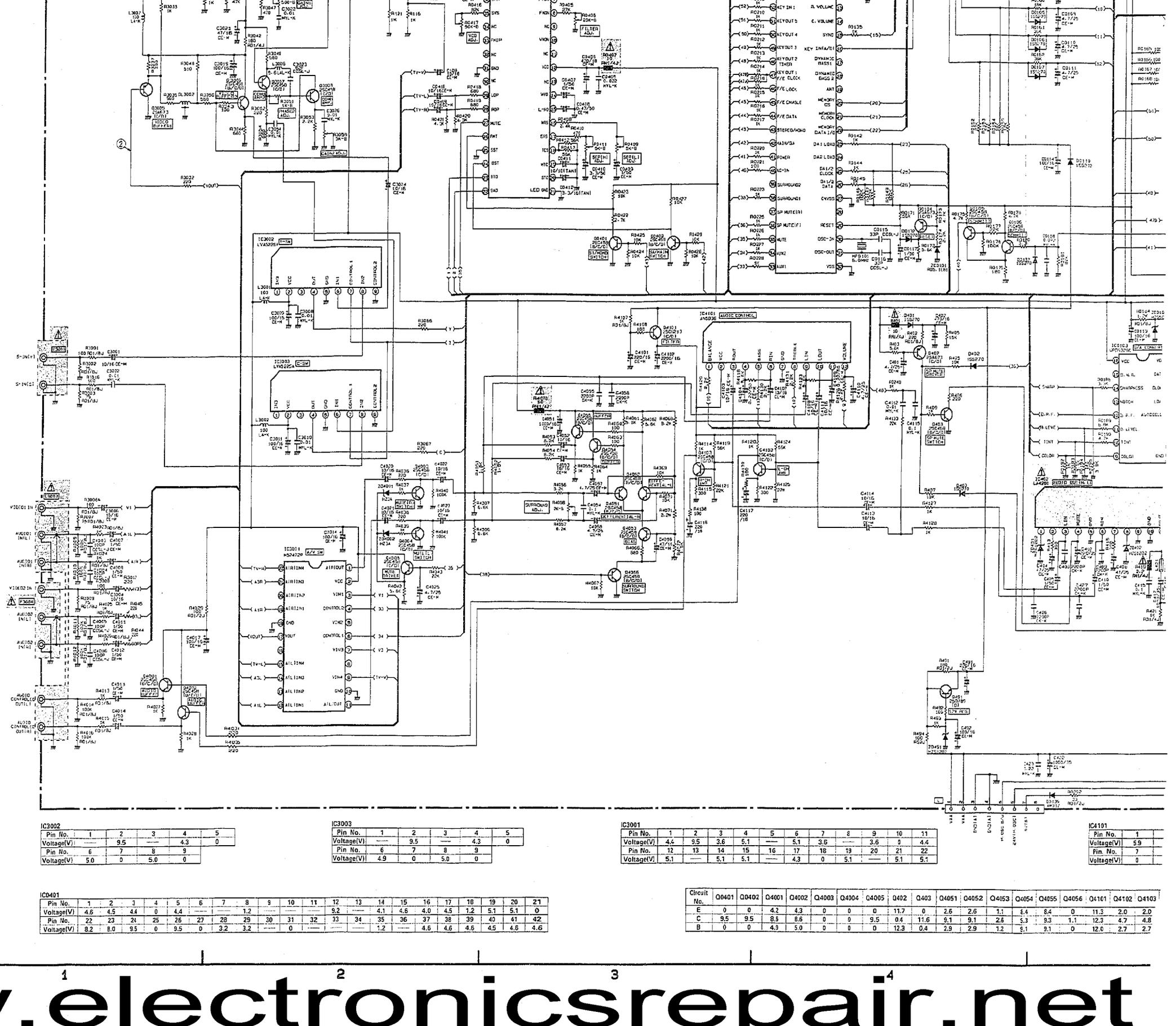
IC0101

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	5.0	33	5.1
2	5.0	34	5.1
3	0	35	0
4	3.9	36	0
5	5.1	37	—
6	—	38	0
7	—	39	—
8	6.7	40	2.4
9	1.9	41	5.0
10	2.4	42	0
11	2.6	43	0
12	2.6	44	5.0
13	—	45	0.2
14	—	46	0
15	0	47	5.0
16	5.1	48	0
17	—	49	4.7
18	—	50	4.8
19	—	51	4.8
20	5.0	52	4.5
21	5.0	53	4.6
22	0	54	0.5
23	0	55	4.9
24	—	56	0
25	0.2	57	0
26	1.2	58	0
27	0	59	0
28	—	60	0
29	5.1	61	0
30	2.2	62	4.9
31	2.2	63	4.4
32	0	64	5.1

IC0102

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	0	5	—
2	0	6	5.1
3	0	7	5.0
4	5.0	8	5.0

Circuit No.	E	C	B
Q0101	0	0	0.7
Q0102	0	5.1	0
Q0104	5.1	5.1	4.5
Q0105	0.2	2.4	0.6
Q0106	0.2	2.5	0.2
Q0108	0	5.7	0
Q0112	0	0	0.7



IC3002

Pin No.	1	2	3	4	5
Voltage(V)	——	9.5	——	4.3	0
Pin No.	6	7	8	9	
Voltage(V)	5.0	0	5.0	0	

IC3003

Pin No.	1	2	3	4	5
Voltage(V)	——	9.5	——	4.3	0
Pin No.	6	7	8	9	
Voltage(V)	4.9	0	5.0	0	

IC3001

Pin No.	1	2	3	4	5	6	7	8	9	10	11
Voltage(V)	4.4	9.5	3.6	5.1	——	5.1	3.6	——	3.6	0	4.4
Pin No.	12	13	14	15	16	17	18	19	20	21	22
Voltage(V)	5.1	——	5.1	5.1	——	4.3	0	5.1	——	5.1	5.1

IC4101

Pin No.	1
Voltage(V)	5.9
Pin. No.	7
Voltage(V)	0

IC0401

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Voltage(V)	4.6	4.5	4.4	0	4.4	——	——	1.2	——	——	——	9.2	——	4.1	4.6	4.0	4.5	1.2	5.1	5.1	0
Pin No.	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Voltage(V)	8.2	8.0	9.5	0	9.5	0	3.2	3.2	——	0	——	——	——	1.2	——	4.6	4.6	4.6	4.5	4.6	4.6

Circuit No.	Q0401	Q0402	Q4001	Q4002	Q4003	Q4004	Q4005	Q402	Q403	Q4051	Q4052	Q4053	Q4054	Q4055	Q4056	Q4101	Q4102	Q4103
E	0	0	4.2	4.3	0	0	0	11.7	0	2.6	2.6	1.1	8.4	8.4	0	11.3	2.0	2.0
C	9.5	9.5	8.5	8.6	0	0	9.5	0.4	11.6	9.1	9.1	2.6	5.3	9.3	1.1	12.3	4.7	4.8
B	0	0	4.9	5.0	0	0	0	12.3	0.4	2.9	2.9	1.2	5.1	9.1	0	12.0	2.7	2.7

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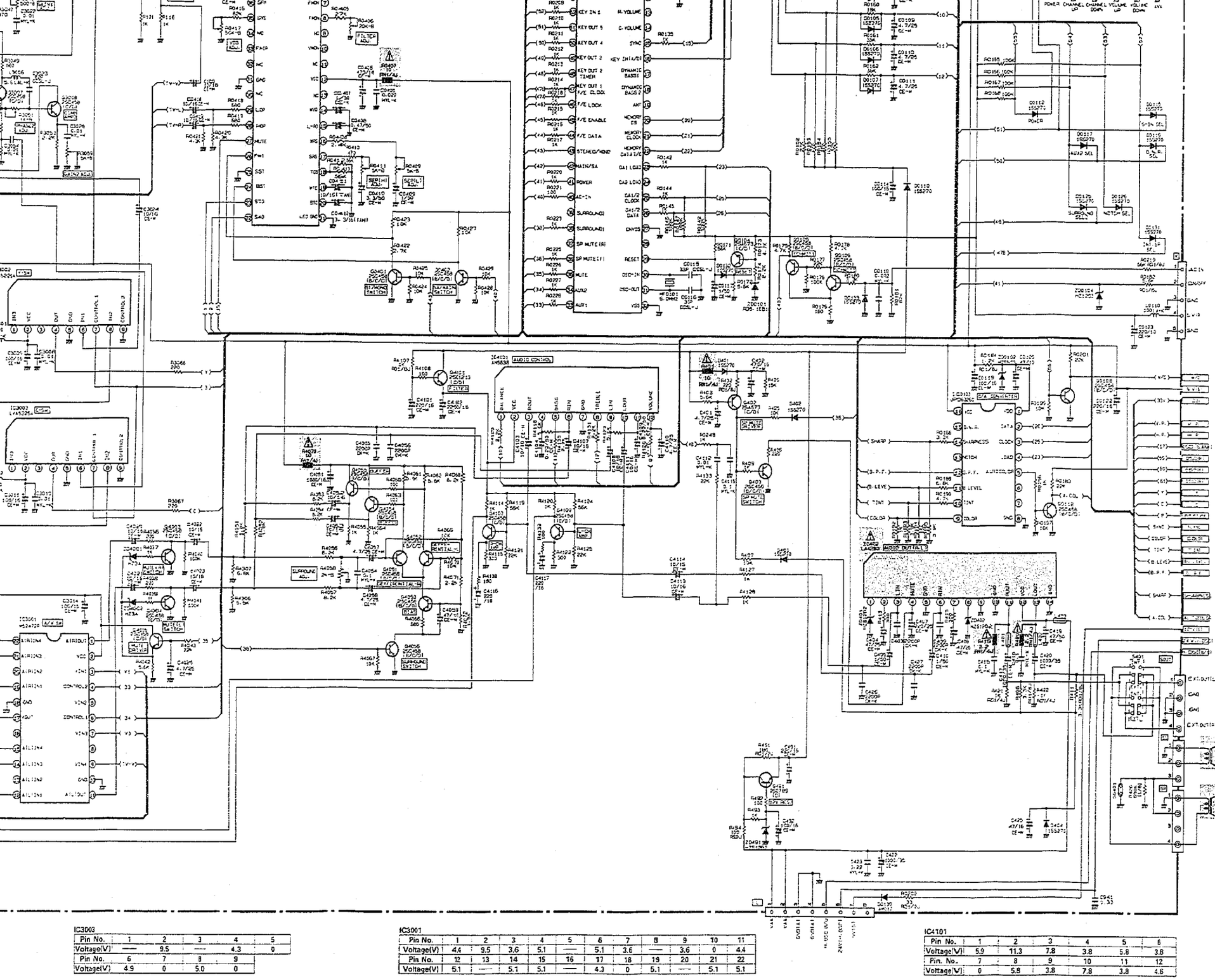

IC0102

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	0	5	—
2	0	6	5.1
3	0	7	5.0
4	5.0	8	5.0

7	—	39	—
8	6.7	40	2.4
9	1.9	41	5.0
10	2.4	42	0
11	2.6	43	0
12	2.6	44	5.0
13	—	45	0.2
14	—	46	0
15	0	47	5.0
16	5.1	48	0
17	—	49	4.7
18	—	50	4.8
19	—	51	4.8
20	5.0	52	4.5
21	5.0	53	4.6
22	0	54	0.5
23	0	55	4.9
24	—	56	0
25	0.2	57	0
26	1.2	58	0
27	0	59	0
28	—	60	0
29	5.1	61	0
30	2.2	62	4.9
31	2.2	63	4.4
32	0	64	5.1

Circuit No.	E	C	B
Q0101	0	0	0.7
Q0102	0	5.1	0
Q0104	5.1	5.1	4.5
Q0105	0.2	2.4	0.6
Q0106	0.2	2.5	0.2
Q0108	0	6.7	0
Q0112	0	0	0.7

IC0103

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	5.0	9	3.9
2	1.6	10	4.1
3	0.7	11	4.3
4	0	12	8.8
5	2.9	13	—
6	—	14	4.3
7	—	15	—
8	0	16	9.5

IC402

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	0.8	8	0.8
2	1.1	9	0
3	0.7	10	0
4	11.6	11	11.4
5	0	12	23.5
6	0.7	13	11.4
7	1.1	14	0

IC3003

Pin No.	1	2	3	4	5
Voltage(V)	—	9.5	—	4.3	0
Pin No.	6	7	8	9	
Voltage(V)	4.9	0	5.0	0	

IC3001

Pin No.	1	2	3	4	5	6	7	8	9	10	11
Voltage(V)	4.4	9.5	3.6	5.1	—	5.1	3.6	—	3.6	0	4.4
Pin No.	12	13	14	15	16	17	18	19	20	21	22
Voltage(V)	5.1	—	5.1	5.1	—	4.3	0	5.1	—	5.1	5.1

IC4101

Pin No.	1	2	3	4	5	6
Voltage(V)	5.9	11.3	7.8	3.8	5.8	3.8
Pin. No.	7	8	9	10	11	12
Voltage(V)	0	5.8	3.8	7.8	3.8	4.6

9	10	11	12	13	14	15	16	17	18	19	20	21
—	—	—	9.2	—	4.1	4.6	4.0	4.5	1.2	5.1	5.1	0
30	31	32	33	34	35	36	37	38	39	40	41	42
—	0	—	—	—	—	1.2	—	4.6	4.6	4.6	4.5	4.6	4.6

Circuit No.	Q0401	Q0402	Q4001	Q4002	Q4003	Q4004	Q4005	Q402	Q403	Q4051	Q4052	Q4053	Q4054	Q4055	Q4056	Q4101	Q4102	Q4103	Q491
E	0	0	4.2	4.3	0	0	0	11.7	0	2.6	2.6	1.1	8.4	8.4	0	11.3	2.0	2.9	12.3
C	9.5	9.5	8.6	8.6	0	0	9.5	0.4	11.6	9.1	9.1	2.6	9.3	9.3	1.1	12.3	4.7	4.3	18.0
B	0	0	4.9	5.0	0	0	0	12.3	0.4	2.9	2.9	1.2	9.1	9.1	0	12.0	2.7	2.7	12.9

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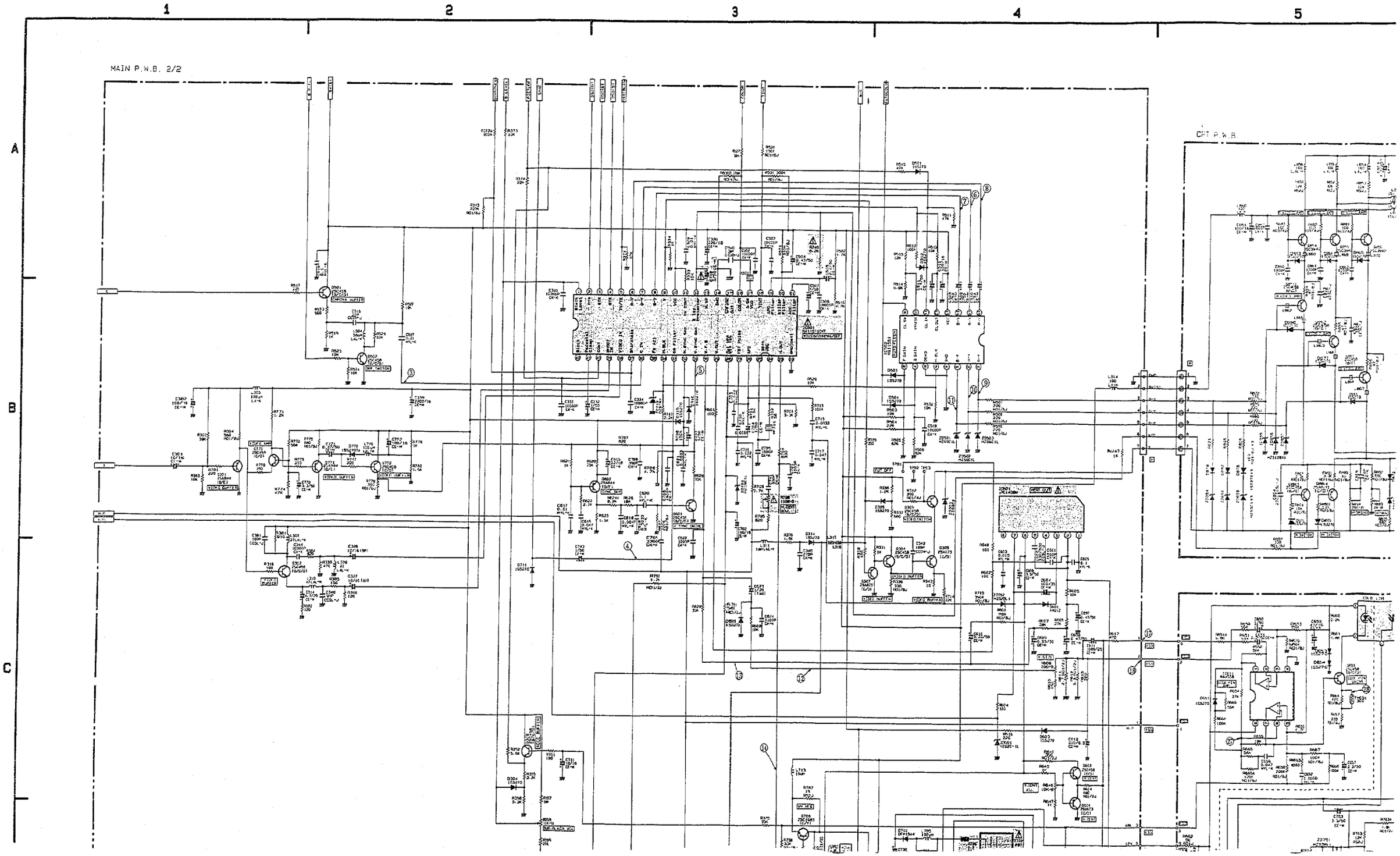
BASIC CIRCUIT DIAGRAM



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anual. Don't degrade the safety

BASIC CIRCUIT DIAGRAM

3 4 5 6

A

B

C

CPT P.W.B.

IC501

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	4.9	22	0
2	0	23	0.6
3	0	24	6.7
4	0	25	4.2
5	0	26	6.4
6	5.9	27	3.8
7	5.9	28	9.2
8	5.9	29	0.9
9	4.0	30	2.4
10	9.6	31	7.1
11	9.1	32	8.1
12	0	33	1.3
13	—	34	0.7
14	0	35	—
15	—	36	7.9
16	5.4	37	9.4
17	5.4	38	4.5
18	4.6	39	4.0
19	5.8	40	6.9
20	0.6	41	7.9
21	0.6	42	—

IC502

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	5.9	9	0
2	5.9	10	3.4
3	5.9	11	2.8
4	0	12	4.8
5	0.3	13	9.5
6	0	14	6.6
7	0.6	15	6.6
8	0.6	16	6.6

IC601

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	0	5	1.0
2	14.4	6	26.0
3	26.7	7	1.6
4	0.9	8	—

Circuit No.	E	C	B	Circuit No.	E	C	B
Q301	3.2	0	2.5	Q603	22.3	22.3	23.0
Q302	2.4	5.5	3.1	Q604	22.3	0	23.0
Q304	4.5	5.5	5.2	Q701	0	13.7	0.5
Q305	4.5	6.2	4.6	Q702	0	—	−0.1
Q306	4.5	4.5	5.3	Q703	12.0	0	11.8
Q307	5.2	0	4.8	Q706	9.6	11.5	10.2
Q308	7.4	9.5	8.0	Q708	0	11.5	0
Q501	3.5	9.5	4.0	Q752	0	16.7	0.5
Q502	0	0	0.7	Q776	3.6	8.4	3.6
Q601	0	6.8	−0.3	Q771	8.8	0	8.4
Q602	5.5	0	5.9	Q772	5.9	9.5	6.6

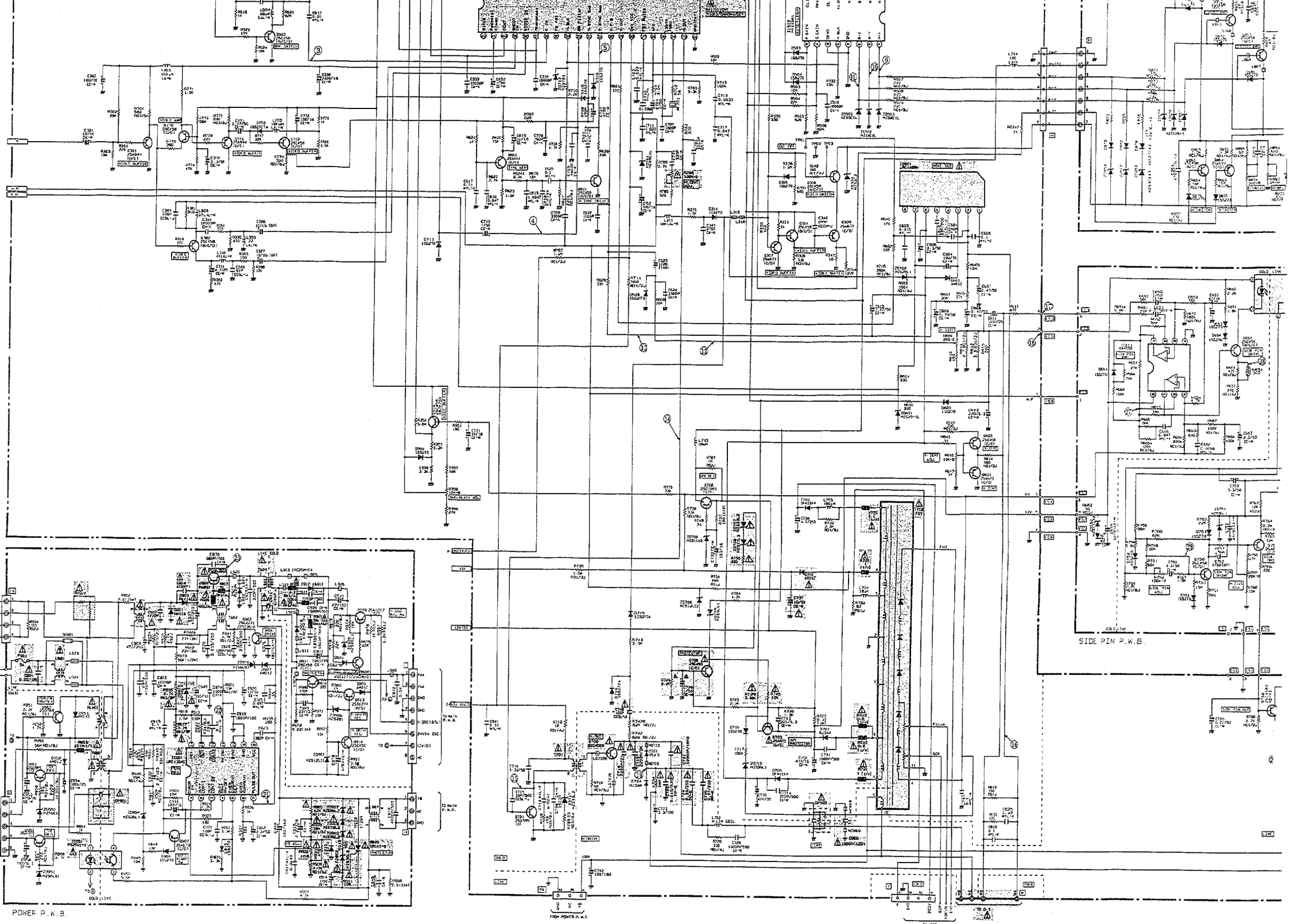
Circuit No.	E	C	B
Q901	132.2	312.2	132.2
Q902	0	15.0	0.2
Q907	6.4	1.2	6.3
Q908	23.5	60.8	19.5
Q909	61.0	13.8	61.0
Q911	0	0	8.7
Q913	32.2	16.3	21.7

IC951

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	9.4	3	0.3
2	8.7	4	6.4

IC901

Pin No.	Voltage(V)	Pin No.	Voltage(V)



- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

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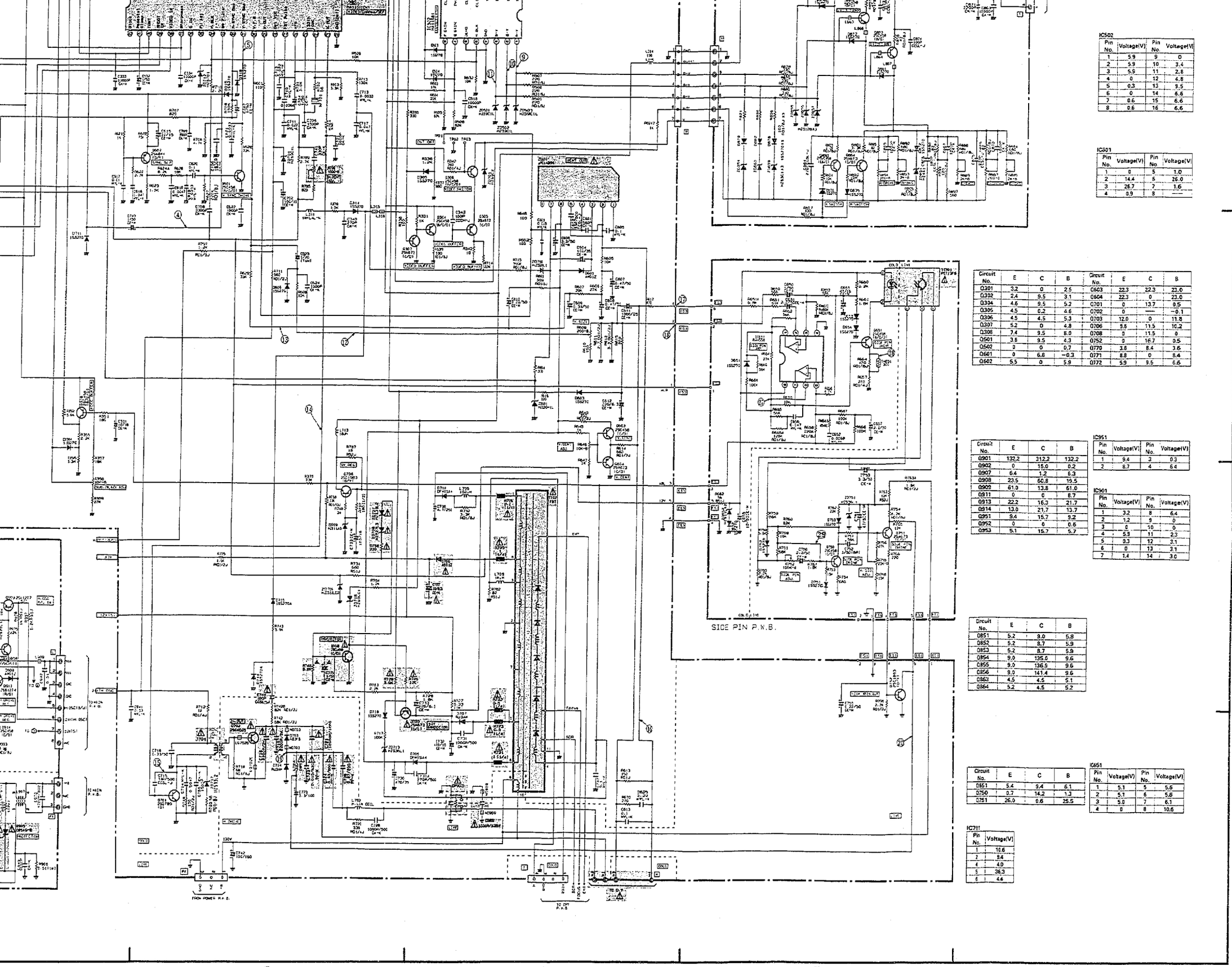

IC502

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	5.9	9	0
2	5.9	10	3.4
3	5.5	11	2.8
4	0	12	4.8
5	0.3	13	9.5
6	0	14	6.6
7	0.6	15	6.6
8	0.6	16	6.6

IC501

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	0	5	1.0
2	14.4	6	26.0
3	26.7	7	1.6
4	0.9	8	—

Circuit No.	E	C	B	Circuit No.	E	C	B
Q301	3.2	0	2.5	Q603	22.3	22.3	23.0
Q302	2.4	9.5	3.1	Q604	22.3	0	23.0
Q304	4.6	9.5	5.2	Q701	0	13.7	0.5
Q305	4.5	0.2	4.6	Q702	0	—	−0.1
Q306	4.5	4.5	5.3	Q703	12.0	0	11.8
Q307	5.2	0	4.8	Q706	9.6	11.5	10.2
Q308	7.4	9.5	8.0	Q708	0	11.5	0
Q501	3.8	9.5	4.3	Q752	0	16.7	0.5
Q502	0	0	0.7	Q770	3.6	8.4	3.6
Q601	0	6.8	−0.3	Q771	8.8	0	8.4
Q602	5.5	0	5.9	Q772	5.9	9.5	6.6

Circuit No.	E	C	B
Q901	132.2	312.2	132.2
Q902	0	15.0	0.2
Q907	6.4	1.2	6.3
Q908	23.5	50.8	19.5
Q909	61.0	13.8	61.0
Q911	0	0	8.7
Q913	22.2	16.3	21.7
Q914	13.0	21.7	13.7
Q951	9.4	15.7	9.2
Q952	0	0	0.6
Q953	5.1	15.7	5.7

IC951

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	9.4	3	0.3
2	8.7	4	6.4

IC901

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	3.2	8	6.4
2	1.2	9	0
3	0	10	0
4	5.3	11	2.3
5	0.3	12	3.1
6	0	13	3.1
7	1.4	14	3.0

Circuit No.	E	C	B
Q851	5.2	9.0	5.8
Q852	5.2	8.7	5.9
Q853	5.2	8.7	5.9
Q854	9.0	135.0	9.6
Q855	9.0	136.9	9.6
Q856	9.0	141.4	9.6
Q863	4.5	4.5	5.1
Q864	5.2	4.5	5.2

Circuit No.	E	C	B
Q651	5.4	9.4	6.1
Q750	0.7	14.2	1.3
Q751	26.0	0.6	25.5

IC651

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	5.1	5	5.6
2	5.1	6	5.6
3	5.0	7	6.1
4	0	8	10.6

IC701

Pin No.	Voltage(V)
1	10.6
2	9.4
4	4.0
5	36.3
6	4.4

ment.
signal including a standard color bar signal.

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