

NOTE:  
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,  
REFER TO BEGINNING OF SCHEMATIC SECTION.

MAIN C.B.A. (POWER SUPPLY/VIDEO/AUDIO SECTION)

MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY
IC1001			50	4.0	0	11	4.9	4.9	12	2.0	2.1	Q1001			Q4004			TP3801	0	0
1	5.3	5.3	51	5.0	5.0	12	1.3	1.3	13	2.3	2.3	E	0	0	E	0	0	TP3802	0	0
2	4.4	4.4	52	1.2	2.5	13	1.3	1.3	14	0	0	C	164.5	164.6	C	-4.5	-4.5	TP3803	0	0
3	0.6	0.6	53	2.4	2.4	14	4.5	4.5	15	2.5	0.2	B	0.3	0.3	B	0	0	TP3804	0	0
4	2.0	2.0	54	1.8	2.4	15	1.0	1.0	16	2.5	2.5	Q1002			Q4005			TP3805	5.0	5.1
IC3001			55	2.0	2.0	16	4.7	4.7	17	0.6	0.7	E	0	0	E	-4.7	-4.7	TP4002	0	0
1	4.9	4.9	56	5.0	4.3	17	2.8	2.8	18	2.5	2.5	C	0.3	0.3	C	0	0	TP4003	0	0
2	3.3	3.3	57	2.5	2.5	18	0.6	0.6	19	2.5	2.4	B	0.6	0.6	B	0	0	TP4011	0	0
3	2.0	2.1	58	2.5	0	19	1.8	1.8	20	2.5	0	Q1003			Q4006			TP4101	0	0
4	4.9	4.9	59	2.5	0	20	1.9	2.0	21	2.5	0	E	0	-0.1	E	-4.3	-4.3	TP4102	0	0
5	4.2	4.2	60	2.5	0	21	3.2	3.2	22	2.5	0.7	C	4.0	4.1	C	0	0	TP4103	0	0
6	1.8	---	61	2.5	2.5	22	1.7	1.7	23	0	0	B	-0.6	-0.6	B	0	0	TP4201	0	0
7	5.1	5.1	62	0	0	23	---	---	24	2.5	0.7	Q1004			Q4007			TP4202	0	0
8	5.2	---	63	0	0	24	1.7	1.7	25	4.9	5.0	E	4.1	4.1	E	-4.6	-4.6	TP4203	0	0
9	2.2	2.2	64	2.0	2.4	25	4.9	4.9	26	2.5	0	C	0	0	C	0	0	TP4204	0	0
10	2.7	2.7	65	2.5	2.6	26	---	---	27	0	2.6	B	4.4	4.4	B	0	0	TP4205	3.9	1.8
11	0.8	0.8	66	2.5	2.6	27	---	---	28	3.8	3.8	Q1005			Q4101			TP4206	3.8	3.8
12	2.7	2.7	67	2.5	2.5	28	2.9	2.9	29	4.0	1.8	E	4.7	4.7	E	0.1	0	TP4208	0.3	0.4
13	0	0	68	5.0	5.1	29	2.5	2.5	30	1.9	0.9	C	5.2	5.2	C	11.6	0	TP4207	1.9	0.9
14	0.3	0.3	69	2.6	0	30	3.1	3.1	31	1.1	1.8	B	5.3	5.3	B	0	0			
15	1.1	1.1	70	0	---	31	3.0	3.1	32	2.5	2.4	Q1051								
16	3.0	3.6	71	2.5	2.5	32	2.3	2.4	33	2.5	2.4	E	12.1	12.0	TP1001	0	0			
17	2.3	1.7	72	2.5	2.5	33	2.8	2.8	34	0.7	0.6	C	14.3	14.4	TP1002	32.2	32.3			
18	3.0	3.3	73	2.5	2.5	34	2.9	2.9	35	2.5	2.4	B	9.3	9.4	TP1003	14.3	14.5			
19	2.6	2.6	74	0	-0.1	35	5.0	5.0	36	0	0	Q1052			TP1004	-29.8	-29.8			
20	3.0	3.1	75	0	-0.1	36	0	0	37	1.6	1.8	E	0.6	0.5	TP1005	5.2	5.3			
21	5.0	5.0	76	3.2	-0.1	IC4151			38	0	0	C	9.1	9.3	TP1006	5.3	5.3			
22	2.0	2.0	77	0	0	1	---	---	39	0.1	0.1	B	0	0	TP1007	0	0			
23	2.4	2.3	78	2.1	2.1	2	---	---	40	4.9	4.9	Q1053			TP1008	5.2	5.3			
24	2.3	2.1	79	2.8	2.9	3	---	---	41	0	0	E	5.1	5.1	TP1009	0	0			
25	2.0	2.0	80	2.1	2.1	4	---	---	42	5.1	5.1	C	5.2	5.2	TP1050	5.1	5.2			
26	2.4	2.3	81	2.4	2.6	5	---	---	43	5.2	5.2	B	5.9	5.9	TP1051	5.3	5.3			
27	2.0	1.9	82	---	2.7	6	0	0	44	2.3	2.3	Q3001			TP1058	12.1	12.1			
28	0	0	83	2.5	2.5	7	-5.0	-5.0	45	5.1	5.1	E	1.9	1.9	TP1080	0	0			
29	1.8	1.8	84	2.4	2.3	8	0	0	46	3.6	3.6	C	0	0	TP1081	13.6	13.7			
30	1.8	1.8	IC3101			9	---	---	47	1.8	1.4	B	2.6	2.7	TP3001	2.6	2.7			
31	2.0	2.1	1	3.0	3.0	10	---	---	48	2.2	2.2	Q3875			TP3002	2.7	2.3			
32	2.2	2.3	2	5.0	5.0	11	---	---	49	3.6	3.6	E	2.8	2.8	TP3003	1.9	2.1			
33	1.9	2.0	3	0	0	12	2.2	2.2	50	3.5	3.4	C	0	0	TP3004	4.2	4.3			
34	2.7	2.7	4	3.0	3.0	13	2.2	2.2	51	5.1	5.1	B	2.0	2.0	TP3005	2.5	2.6			
35	2.0	2.2	5	2.9	2.9	14	0	0	52	3.5	3.5	Q4001			TP3006	2.4	2.5			
36	---	2.4	6	-2.6	-3.5	15	0	0	53	5.9	-0.1	E	5.1	4.3	TP3007	1.9	1.6			
37	16.4	1.4	7	2.1	2.1	16	5.2	5.2	54	2.3	2.3	C	-22.0	5.0	TP3008	3.3	3.3			
38	4.4	2.2	8	3.3	3.5	IC4201			55	0	0	B	5.1	5.1	TP3009	0	0			
39	1.9	1.9	IC3801			1	2.0	2.3	56	0.1	0.1	Q4002			TP3010	4.9	5.0			
40	2.8	2.9	1	5.0	5.0	2	0	0	57	5.9	5.8	E	-22.0	0.7	TP3011	0.3	0.4			
41	2.7	3.4	2	1.0	0.9	3	2.4	2.2	58	12.1	-0.1	C	0	0	TP3101	2.9	3.1			
42	0	0	3	2.9	3.0	4	0	0	59	5.9	5.8	B	-13	0	TP3102	2.8	3.0			
43	3.3	3.3	4	2.9	3.0	5	2.2	2.2	60	0.6	-0.1	Q4003			TP3103	1.8	1.9			
44	---	2.5	5	2.9	2.3	6	2.5	2.4	61	2.5	-0.1	E	-22.0	0.7	TP3150	4.1	3.1			
45	---	2.5	6	---	---	7	2.0	2.1	62	2.4	-0.1	C	0	0	TP3151	2.3	2.4			
46	---	2.5	7	3.0	3.0	8	0.4	0.3	63	2.3	2.3	B	-13.0	0	TP3152	2.5	2.6			
47	5.0	5.0	8	0	0	9	0	0	64	0.4	0.4				TP3153	2.5	2.6			
48	1.1	0	9	---	---	10	0.2	0.2							TP3154	1.1	1.2			
49	1.5	2.6	10	3.0	3.0	11	0	0							TP3401	0	0			

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MAIN C.B.A. (SYSTEM CONTROL/SERVO SECTION)

MODE PIN NO.	REC	PLAY	STOP
IC2601			
1	13.8	13.8	14.2
2	13.8	13.8	14.2
3	14.3	14.3	14.7
4	1.1	1.1	1.2
5	5.2	5.2	5.3
6	0.8	0.8	0.9
7	0.9	0.9	0.9
8	0.6	0.6	0.6
9	---	2.7	2.9
10	1.4	1.4	1.5
11	0	0	0
12	3.9	3.9	3.9
13	3.9	3.9	3.9
14	3.9	3.9	3.9
15	---	0.1	0.1
16	13.8	13.8	14.2
IC6001			
1	5.2	5.2	5.3
2	0	0	0
3	---	---	5.0
4	---	---	0.2
5	4.7	4.7	4.9
6	0	0	0
7	0	0	0
8	4.7	4.7	4.8
9	0.1	0.1	0.2
10	5.1	5.1	5.1
11	4.9	4.9	5.0
12	0	0	0
13	4.9	4.9	4.9
14	5.0	5.0	5.1
15	4.8	3.4	4.9
16	5.0	5.0	5.1
17	5.2	4.9	5.2
18	5.0	5.1	5.1
19	5.1	5.1	5.1
20	5.1	5.1	5.1
21	0	0	2.6
22	---	---	0
23	1.5	2.6	5.1
24	0	0	0
25	---	---	---
26	0	0	0
27	0	2.6	2.6
28	5.1	0	0
29	3.8	3.8	1.5
30	0	0	0
31	0	0	0
32	0	0	0
33	---	2.3	2.6
34	2.4	2.5	0
35	2.4	2.4	2.5
36	5.1	5.1	5.2
37	---	---	2.7

MODE PIN NO.	REC	PLAY	STOP
38	---	---	2.6
39	0	0	0
40	4.7	4.7	4.7
41	4.7	4.8	4.7
42	0	0	0
43	4.7	4.7	4.7
44	4.7	4.7	4.7
45	4.7	4.7	4.8
46	4.7	4.7	4.8
47	1.9	2.0	2.0
48	0	0	0
49	1.9	1.9	2.0
50	2.7	2.7	2.7
51	5.2	5.2	5.3
52	2.5	2.6	2.7
53	2.5	2.6	2.7
54	0	0	0
55	0	0	0
56	5.1	5.1	5.2
57	4.6	4.6	4.7
58	0	0	0.1
59	0	0	0
60	5.1	5.1	5.1
61	0.3	0.2	0.2
62	5.1	0	5.2
63	5.1	5.1	5.1
64	0	0	0
65	1.1	0.9	1.2
66	0	0	0
67	0.2	2.6	0
68	---	---	2.6
69	2.5	2.5	2.6
70	2.5	-0.1	2.6
71	0	-0.1	0
72	2.5	---	2.6
73	5.1	5.1	5.2
74	1.9	1.6	2.5
75	1.5	1.6	2.6
76	2.5	2.5	2.6
77	1.8	0.2	2.6
78	3.4	2.8	3.4
79	4.6	3.7	4.7
80	---	---	4.7
81	4.9	4.9	4.9
82	0	0	0.2
83	0	0	0.1
84	0	0	0
85	1.7	0.1	2.2
86	1.7	0	2.6
87	5.2	5.2	5.3
88	5.2	5.2	5.3
89	5.2	5.2	5.3
90	5.2	5.2	5.3
91	5.0	5.0	5.1
92	0	0	0

MODE PIN NO.	REC	PLAY	STOP
93	5.0	5.0	5.1
94	5.0	5.0	5.1
95	0	0	5.1
96	5.2	4.9	0
97	0	0	5.1
98	1.5	2.6	0
99	5.1	5.1	5.1
100	0.2	0	0.4
IC6002			
1	1.1	1.1	1.2
2	0	0	0
3	0	0	0
4	---	---	0.1
IC6003			
1	---	2.3	2.4
2	1.1	1.1	1.2
3	0	0	0
4	---	---	0.2
IC6005			
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	5.2	5.2	5.2
6	5.1	5.1	5.1
7	0	0	0
8	5.2	5.2	5.3
IC6301			
1	0	0	0
2	4.9	4.9	4.9
3	4.9	4.9	4.9
4	4.6	4.6	4.7
5	0	0	0
6	4.3	4.2	4.6
7	4.3	4.2	4.6
8	4.2	4.2	4.6
9	4.2	4.2	4.6
10	0	0	0
11	4.5	4.4	4.8
12	8.8	5.0	4.1
13	8.5	---	3.2
14	5.8	4.3	4.4
15	3.3	3.3	2.9
16	3.8	2.7	5.1
17	4.9	2.8	12.3
18	---	---	12.8
19	0	0	0
20	---	---	---
21	---	2.9	8.5
22	3.5	3.0	6.6
23	1.8	---	---
24	2.4	2.4	2.5
25	0.1	0.1	0.2
26	0.1	0.1	0.1
27	1.9	2.0	2.2

MODE PIN NO.	REC	PLAY	STOP
28	4.7	4.7	5.0
Q6001			
E	0	0	0
C	---	---	5.1
B	0	0	0
Q6002			
E	11.2	12.0	12.1
C	11.8	0	0
B	12.0	12.1	12.1
Q6003			
E	5.1	0	0
C	11.2	12.0	12.1
B	4.5	0	0
Q6005			
E	4.3	4.3	4.4
C	5.1	5.1	5.2
B	5.2	5.2	5.3
Q6006			
E	0.7	0.7	0.8
C	0.1	0.1	0.1
B	0	0	0
Q6007			
E	0.1	0.1	0.1
C	5.1	5.1	5.2
B	5.1	5.1	5.2
Q6009			
E	0	0	0
C	5.1	5.1	5.2
B			
Q6010			
E	0	0	0
C	5.0	5.1	4.8
B			
Q6301			
E	4.7	4.6	5.0
C	2.2	1.4	2.7
B	4.7	4.6	5.1
Q6302			
E	4.7	4.6	5.0
C	1.7	1.3	1.0
B	4.8	4.6	5.1
Q6303			
E	4.7	4.5	5.0
C	1.7	---	---
B	4.8	4.6	5.1
Q6304			
E	4.7	4.5	5.0
C	1.9	-2.7	-1.7
B	4.7	4.6	5.1
Q6305			
E	4.7	4.6	5.0
C	1.3	0	0.5
B	4.8	4.6	5.1

MODE PIN NO.	REC	PLAY	STOP
TP6001	---	---	5.2
TP6002	---	---	0.2
TP6003	3.4	2.9	2.9
TP6004	5.0	5.2	5.1
TP6005	5.0	5.1	5.1
TP6007	0	0	0
TP6008	0	0	0
TP6009	5.2	5.3	5.3
TP6010	5.3	5.3	5.3
TP6011	5.2	5.2	5.2
TP6014	0	0	0
TP6016	3.5	3.5	3.5
TP6017	0	0	5.3
TP6018	5.2	5.3	0
TP6019	0	0	5.3
TP6201	2.3	0.2	0
TP6202	2.4	2.5	4.1
TP6203	2.5	2.6	2.6
TP6204	1.1	1.2	5.3
TP6205	2.6	2.6	0.1
TP6206	2.9	2.6	2.6
TP6207	2.5	2.6	2.6
TP6208	2.5	2.6	4.1
TP6209	2.3	2.5	2.6
TP6210	2.3	0.8	2.3
TP6301	0	0	0
TP6302	4.8	4.7	5.0
TP6303	5.1	5.1	5.2
TP6304	5.1	5.2	5.2
TP6305	0	---	-2.7
TP6306	5.1	5.2	5.2

CAPSTAN STATOR C.B.A.

MODE PIN NO.	REC	PLAY	STOP
P2502			
1	13.6	13.6	14.3
2	5.2	5.2	5.2
3	5.3	5.3	5.3
4	2.5	2.4	2.6
5	0	0	0
6	2.6	2.6	2.6
7	0	0	0
8	0.5	0.5	0.5
9	2.6	2.6	2.6
10	0.1	0.1	2.6
11	0	0	0
12	0	0	0
P2503			
1	1.8	1.7	1.5
2	1.8	1.7	1.5

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### MAIN C.B.A. (POWER SUPPLY/VIDEO/AUDIO SECTION)

MODE PIN NO.	REC	PLAY
IC1001		
1	5.3	5.3
2	4.4	4.4
3	0.6	0.6
4	2.0	2.0
IC3001		
1	4.9	4.9
2	3.3	3.3
3	2.0	2.1
4	4.9	4.9
5	4.2	4.2
6	1.8	---
7	5.1	5.1
8	5.2	---
9	2.2	2.2
10	2.7	2.7
11	0.8	0.8
12	2.7	2.7
13	0	0
14	0.3	0.3
15	1.1	1.1
16	3.0	3.6
17	2.3	1.7
18	3.0	3.3
19	2.6	2.6
20	3.0	3.1
21	5.0	5.0
22	2.0	2.0
23	2.4	2.3
24	2.3	2.1
25	2.0	2.0
26	2.4	2.3
27	2.0	1.9
28	0	0
29	1.8	1.8
30	1.8	1.8
31	2.0	2.1
32	2.2	2.3
33	1.9	2.0
34	2.7	2.7
35	2.0	2.2
36	---	2.4
37	16.4	1.4
38	4.4	2.2
39	1.9	1.9
40	2.8	2.9
41	2.7	3.4
42	0	0
43	3.3	3.3
44	---	2.5
45	---	2.5
46	---	2.5
47	5.0	5.0
48	1.1	0
49	1.5	2.6

MODE PIN NO.	REC	PLAY
50	4.0	0
51	5.0	5.0
52	1.2	2.5
53	2.4	2.4
54	1.8	2.4
55	2.0	2.0
56	5.0	4.3
57	2.5	2.5
58	2.5	0
59	2.5	0
60	2.5	0
61	2.5	2.5
62	0	0
63	0	0
64	2.0	2.4
65	2.5	2.6
66	2.5	2.6
67	2.5	2.5
68	5.0	5.1
69	2.6	0
70	0	---
71	2.5	2.5
72	2.5	2.5
73	2.5	2.5
74	0	-0.1
75	0	-0.1
76	3.2	-0.1
77	0	0
78	2.1	2.1
79	2.8	2.9
80	2.1	2.1
81	2.4	2.6
82	---	2.7
83	2.5	2.5
84	2.4	2.3
IC3101		
1	3.0	3.0
2	5.0	5.0
3	0	0
4	3.0	3.0
5	2.9	2.9
6	-2.6	-3.5
7	2.1	2.1
8	3.3	3.5
IC3801		
1	5.0	5.0
2	1.0	0.9
3	2.9	3.0
4	2.9	3.0
5	2.9	2.3
6	---	---
7	3.0	3.0
8	0	0
9	---	---
10	3.0	3.0

MODE PIN NO.	REC	PLAY
11	4.9	4.9
12	1.3	1.3
13	1.3	1.3
14	4.5	4.5
15	1.0	1.0
16	4.7	4.7
17	2.8	2.8
18	0.6	0.6
19	1.8	1.8
20	1.9	2.0
21	3.2	3.2
22	1.7	1.7
23	---	---
24	1.7	1.7
25	4.9	4.9
26	---	---
27	---	---
28	2.9	2.9
29	2.5	2.5
30	3.1	3.1
31	3.0	3.1
32	2.3	2.4
33	2.8	2.8
34	2.9	2.9
35	5.0	5.0
36	0	0
IC4151		
1	---	---
2	---	---
3	---	---
4	---	---
5	---	---
6	0	0
7	-5.0	-5.0
8	0	0
9	---	---
10	---	---
11	---	---
12	2.2	2.2
13	2.2	2.2
14	0	0
15	0	0
16	5.2	5.2
IC4201		
1	2.0	2.3
2	0	0
3	2.4	2.2
4	0	0
5	2.2	2.2
6	2.5	2.4
7	2.0	2.1
8	0.4	0.3
9	0	0
10	0.2	0.2
11	0	0

MODE PIN NO.	REC	PLAY
12	2.0	2.1
13	2.3	2.3
14	0	0
15	2.5	0.2
16	2.5	2.5
17	0.6	0.7
18	2.5	2.5
19	2.5	2.4
20	2.5	0
21	2.5	0
22	2.5	0.7
23	0	0
24	2.5	0.7
25	4.9	5.0
26	2.5	0
27	0	2.6
28	3.8	3.8
29	4.0	1.8
30	1.9	0.9
31	1.1	1.8
32	2.5	2.4
33	2.5	2.4
34	0.7	0.6
35	2.5	2.4
36	0	0
37	1.6	1.8
38	0	0
39	0.1	0.1
40	4.9	4.9
41	0	0
42	5.1	5.1
43	5.2	5.2
44	2.3	2.3
45	5.1	5.1
46	3.6	3.6
47	1.8	1.4
48	2.2	2.2
49	3.6	3.6
50	3.5	3.4
51	5.1	5.1
52	3.5	3.5
53	5.9	-0.1
54	2.3	2.3
55	0	0
56	0.1	0.1
57	5.9	5.8
58	12.1	-0.1
59	5.9	5.8
60	0.6	-0.1
61	2.5	-0.1
62	2.4	-0.1
63	2.3	2.3
64	0.4	0.4

MODE PIN NO.	REC	PLAY
Q1001		
E	0	0
C	164.5	164.6
B	0.3	0.3
Q1002		
E	0	0
C	0.3	0.3
B	0.6	0.6
Q1003		
E	0	-0.1
C	4.0	4.1
B	-0.6	-0.6
Q1004		
E	4.1	4.1
C	0	0
B	4.4	4.4
Q1005		
E	4.7	4.7
C	5.2	5.2
B	5.3	5.3
Q1051		
E	12.1	12.0
C	14.3	14.4
B	9.3	9.4
Q1052		
E	0.6	0.5
C	9.1	9.3
B	0	0
Q1053		
E	5.1	5.1
C	5.2	5.2
B	5.9	5.9
Q3001		
E	1.9	1.9
C	0	0
B	2.6	2.7
Q3875		
E	2.8	2.8
C	0	0
B	2.0	2.0
Q4001		
E	5.1	4.3
C	-22.0	5.0
B	5.1	5.1
Q4002		
E	-22.0	0.7
C	0	0
B	-13	0
Q4003		
E	-22.0	0.7
C	0	0
B	-13.0	0

MODE PIN NO.	REC	PLAY
Q4004		
E	0	0
C	-4.5	-4.5
B	0	0
Q4005		
E	-4.7	-4.7
C	0	0
B	0	0
Q4006		
E	-4.3	-4.3
C	0	0
B	0	0
Q4007		
E	-4.6	-4.6
C	0	0
B	0	0
Q4101		
E	0.1	0
C	11.6	0
B	0	0
TP1001	0	0
TP1002	32.2	32.3
TP1003	14.3	14.5
TP1004	-29.8	-29.8
TP1005	5.2	5.3
TP1006	5.3	5.3
TP1007	0	0
TP1008	5.2	5.3
TP1009	0	0
TP1050	5.1	5.2
TP1051	5.3	5.3
TP1058	12.1	12.1
TP1080	0	0
TP1081	13.6	13.7
TP3001	2.6	2.7
TP3002	2.7	2.3
TP3003	1.9	2.1
TP3004	4.2	4.3
TP3005	2.5	2.6
TP3006	2.4	2.5
TP3007	1.9	1.6
TP3008	3.3	3.3
TP3009	0	0
TP3010	4.9	5.0
TP3011	0.3	0.4
TP3101	2.9	3.1
TP3102	2.8	3.0
TP3103	1.8	1.9
TP3150	4.1	3.1
TP3151	2.3	2.4
TP3152	2.5	2.6
TP3153	2.5	2.6
TP3154	1.1	1.2
TP3401	0	0

[illegible]