

VOLTAGE CHARTS

MAIN CIRCUIT

MODE PIN NO.	REC	PLAY
IC1001		
1	5.1	5.1
2	4.4	4.4
3	-54.0	-54.0
4	-53.8	-53.8
IC3001		
1	5.1	5.1
2	3.4	3.4
3	2.1	2.1
4	5.1	5.1
5	4.3	4.3
6	---	---
7	5.2	5.2
8	5.2	5.2
9	2.2	2.2
10	2.8	2.8
11	0.8	0.8
12	2.8	2.8
13	0.4	0.4
14	0.5	0.5
15	0	0.9
16	3.1	3.8
17	2.4	1.8
18	3.1	5.7
19	2.6	2.6
20	3.1	4.0
21	5.1	5.1
22	0	2.0
23	2.6	2.4
24	2.6	2.4
25	2.0	2.0
26	2.6	2.5
27	2.0	2.0
28	0	0
29	1.9	1.8
30	1.9	1.6
31	2.0	1.2
32	2.4	2.4
33	2.7	2.7
34	3.0	2.8
35	2.6	2.6
36	2.5	2.5
37	0	1.5
38	4.4	2.3
39	0	1.5
40	3.8	2.4
41	0	0
42	0	0
43	3.4	3.3
44	2.6	2.6
45	2.6	2.6
46	2.6	2.6
47	5.1	5.1
48	1.3	1.3
49	2.7	2.7
50	3.8	3.1
51	5.1	5.1
52	2.5	2.5
53	2.5	2.5

MODE PIN NO.	REC	PLAY
54	4.1	0.1
55	0	0
56	0.1	4.4
57	0	2.6
58	2.6	2.6
59	2.6	2.6
60	2.6	2.6
61	2.6	2.6
62	0	0
63	0	0
64	1.6	1.8
65	2.6	2.6
66	0	2.6
67	2.6	0
68	5.2	0
69	2.6	2.6
70	0.3	0
71	2.6	2.6
72	2.6	0
73	2.6	2.6
74	0	0
75	0	0
76	3.3	0
77	0	0
78	2.1	0
79	3.0	0
80	0	2.0
81	---	---
82	---	---
83	2.6	0
84	2.5	0
IC3101		
1	3.4	3.4
2	-2.5	-2.5
3	0	0
4	3.2	3.2
5	2.5	2.5
6	-2.7	-2.7
7	2.1	2.1
8	3.0	3.0
IC4201		
1	2.6	2.6
2	2.6	2.6
3	2.6	2.6
4	2.6	2.6
5	---	---
6	5.1	5.1
7	2.6	2.6
8	2.6	2.6
9	0	0
10	2.6	2.6
11	2.6	2.6
12	2.6	2.6
13	2.6	2.6
14	---	---
15	2.6	2.6
16	4.2	4.2
17	4.0	4.0
18	0	0

MODE PIN NO.	REC	PLAY
19	2.6	2.6
20	2.6	2.6
21	0	0
22	0	0
23	0	0
24	---	---
25	0	2.0
26	2.6	2.6
27	2.6	2.6
28	0	0
29	1.6	1.6
30	2.7	2.7
31	0.1	0
32	---	---
33	0	2.6
34	2.6	2.6
35	2.6	2.6
36	---	---
37	2.6	2.6
38	2.6	2.6
39	11.3	11.3
40	0.5	0.5
41	6.2	6.2
42	0	0
43	0	0
44	0	0
45	6.2	6.2
46	6.2	6.2
47	---	---
48	---	---
IC6001		
1	5.2	5.2
2	0	0
3	---	---
4	0	0
5	5.0	5.0
6	0	0
7	0	0
8	0	0
9	5.0	0
10	0.5	5.0
11	0	0
12	5.2	5.2
13	0	0
14	4.9	4.9
15	5.2	5.2
16	2.2	0.6
17	5.2	5.2
18	5.2	5.2
19	---	---
20	0.2	4.9
21	0	0
22	2.2	2.3
23	2.5	2.5
24	0	0
25	5.0	5.0
26	2.5	2.5
27	0	2.5
28	0	0

MODE PIN NO.	REC	PLAY
29	4.7	4.7
30	5.0	0
31	0.1	0
32	0	0
33	2.2	2.0
34	2.4	2.4
35	---	---
36	5.1	5.1
37	2.5	---
38	2.5	---
39	0	0
40	---	---
41	---	---
42	0	0
43	---	---
44	---	---
45	---	---
46	1.0	1.0
47	1.9	1.9
48	0	0
49	0	1.9
50	2.6	2.6
51	5.1	5.1
52	2.5	2.5
53	2.6	2.6
54	5.2	5.2
55	5.2	5.2
56	---	---
57	---	---
58	4.9	4.9
59	5.0	5.0
60	1.7	1.7
61	0	0
62	0.4	0.4
63	5.0	5.0
64	0	0
65	1.0	1.0
66	0	0
67	2.5	2.5
68	2.5	2.5
69	2.5	2.5
70	2.5	2.5
71	0	0
72	2.5	2.5
73	5.0	5.0
74	2.9	---
75	2.1	---
76	2.5	2.5
77	1.9	2.2
78	3.5	3.5
79	5.0	5.0
80	4.7	4.6
81	5.0	5.0
82	5.1	5.1
83	5.1	1.2
84	3.8	2.8
85	5.2	5.2
86	4.8	4.8
87	5.2	5.2

MODE PIN NO.	REC	PLAY
88	1.8	1.9
89	5.2	5.2
90	5.2	5.2
91	0	0
92	0	0
93	4.7	4.7
94	1.9	1.9
95	0	0
96	5.2	5.2
97	0	0
98	2.5	2.5
99	5.0	5.0
100	0.2	0
IC6002		
1	1.2	1.2
2	0	0
3	1.2	1.2
4	---	---
IC6003		
1	2.4	2.4
2	1.2	1.2
3	0	0
4	---	---
IC6301		
1	---	---
2	---	---
3	-26.5	-26.5
4	-26.5	-26.5
5	-26.5	-26.5
6	-26.5	-26.5
7	---	---
8	---	---
9	5.2	5.2
10	5.2	5.2
11	5.2	5.2
12	5.2	5.2
13	2.3	2.3
14	2.6	2.5
15	5.1	5.1
16	0	0
17	---	---
18	2.0	1.9
19	2.0	1.8
20	2.1	2.1
21	---	---
22	1.3	1.3
23	---	---
24	0	4.7
25	5.1	5.2
26	4.7	4.7
27	---	---
28	---	---
29	-31.0	5.0
30	---	---
31	---	---
32	---	---
33	-18.0	-21.9
34	-26.3	-18.0
35	-30.5	-21.7

MODE PIN NO.	REC	PLAY
36	-21.8	-21.6
37	-17.5	-17.5
38	-17.5	-13.5
39	5.2	5.2
40	-31.0	-31.0
41	-21.7	-17.2
42	-26.1	-30.5
43	-26.0	-30.5
44	-21.7	-30.5
Q1001		
E	0	0
C	133.5	133.5
B	0.3	0.3
Q1002		
E	0	0
C	0.3	0.3
B	0.6	0.6
Q1003		
E	-0.6	-0.6
C	4.1	4.1
B	0	0
Q1004		
E	4.4	4.4
C	0.1	0.1
B	4.1	4.1
Q1005		
E	5.1	5.1
C	5.2	5.2
B	4.7	4.7
Q1051		
E	12.0	12.0
C	13.2	13.2
B	11.6	12.6
Q1052		
E	0	0
C	11.6	12.6
B	0.7	0.7
Q1053		
E	5.3	5.3
C	5.1	5.1
B	6.0	6.0
Q1056		
E	5.3	5.3
C	5.1	5.1
B	6.0	6.0
Q3001		
E	2.8	2.8
C	0	0
B	2.0	2.0
Q3875		
E	2.5	2.5
C	0	0
B	1.9	1.9
Q4001		
E	5.1	5.1
C	-18.7	5.1
B	5.1	4.4
Q4002		

MODE PIN NO.	REC	PLAY
E	-13.6	0
C	0	0
B	-19.1	0.8
Q4003		
E	-13.6	0
C	0	0
B	-18.6	0.8
Q4004		
E	0	0
C	2.5	2.5
B	0	0
Q4005		
E	0	0
C	0	0
B	2.5	2.5
Q4006		
E	0	0
C	0	0
B	2.5	2.5
Q4007		
E	0	0
C	6.2	6.2
B	2.5	2.5
Q4101		
E	0	0
C	11.3	0.5
B	0.2	0.5
Q6001		
E	0	0
C	5.0	5.0
B	0	0
Q6002		
E	12.1	12.1
C	11.8	0.5
B	12.1	11.2
Q6003		
E	0.4	0
C	11.2	12.1
B	5.0	0
Q6005		
E	5.1	5.1
C	5.1	5.1
B	4.4	4.4
Q6006		
E	0	0
C	0	0
B	0.8	0.8
Q6009		
E	0	0
C	5.1	5.1
B	---	---
Q6010		
E	0	0
C	5.1	5.1
B	---	---
TP1001	0	0
TP1002	36.5	36.5
TP1003	13.5	13.5

MODE PIN NO.	REC	PLAY
TP1004	-30.0	-30.0
TP1005	5.1	5.1
TP1006	-18.9	-18.9
TP1007	-24.2	-24.2
TP1008	5.1	5.1
TP1009	0	0
TP1050	5.3	5.3
TP1051	5.3	5.3
TP1058	12.0	12.0
TP3001	2.8	2.8
TP3002	2.7	2.3
TP3003	2.7	2.7
TP3004	4.3	4.3
TP3005	2.6	2.6
TP3006	2.5	2.5
TP3007	2.1	2.1
TP3008	3.4	3.4
TP3009	3.0	5.0
TP3010	5.1	5.1
TP3101	3.2	3.2
TP3102	3.0	0
TP3103	1.8	1.8
TP3401	3.1	3.8
TP4002	0	0
TP4003	0	0
TP4011	0	0
TP4101	0	0
TP4102	0	0
TP4103	0	0
TP4201	6.2	6.2
TP4202	6.2	6.2
TP4203	0	0
TP4204	0	0
TP4205	2.7	2.7
TP4206	2.7	2.7
TP4207	0	0
TP6001	---	---
TP6002	5.2	5.2
TP6003	3.4	2.3
TP6004	4.7	4.6
TP6005	5.1	5.1
TP6007	0	0
TP6008	0	0
TP6009	5.2	5.2
TP6010	0	0
TP6012	1.0	1.0
TP6013	2.5	2.5
TP6014	---	---
TP6016	3.5	3.5
TP6017	0	0
TP6018	5.2	5.2
TP6019	0	0
TP6201	2.2	2.2
TP6202	2.4	2.4
TP6203	2.5	2.5
TP6204	1.0	1.0
TP6205	2.6	2.6
TP6206	2.9	---
TP6207	2.5	2.5

[illegible]

VOLTAGE CHARTS

IC6001			
1	5.2	5.2	5.2
2	0	0	0
3	---	---	---
4	0	0	0
5	5.0	5.0	5.0
6	0	0	0
7	0	0	0
8	0	0	0
9	5.0	5.0	5.0
10	0.5	5.0	5.0
11	0	0	0
12	5.2	5.2	5.2

MODE PIN NO.	STOP	FF	REW
13	0	0	0
14	4.9	4.9	4.9
15	5.2	5.2	5.2
16	20.5	0.5	0.5
17	5.2	5.2	5.2
18	5.2	5.2	5.2
19	---	---	---
20	4.9	4.9	4.9
21	2.5	0	0
22	4.9	2.2	2.2
23	2.6	2.6	2.6
24	0	0	0
25	0	5.0	5.0
26	2.5	2.5	2.5
27	0	0	0
28	0	0	0
29	4.7	4.7	4.7
30	0	0	0
31	0	0	0
32	0	0	0
33	2.6	2.0	2.0
34	4.5	2.0	2.0
35	---	---	---
36	5.1	5.1	5.1
37	2.5	2.5	2.5
38	2.5	2.5	2.5
39	0	0	0
40	---	---	---
41	---	---	---
42	0	0	0
43	---	---	---
44	---	---	---
45	---	---	---
46	2.0	1.0	1.0
47	1.9	1.9	1.9
48	0	0	0
49	1.9	1.9	1.9
50	2.6	2.6	2.6
51	5.1	5.1	5.1
52	2.5	2.5	2.5
53	2.6	2.6	2.6
54	5.2	5.2	5.2
55	5.2	5.2	5.2
56	---	---	---
57	---	---	---
58	4.9	4.9	4.9
59	5.0	5.0	5.0
60	1.9	1.9	1.9
61	0	0	0
62	0.4	0.4	0.4
63	5.0	5.0	5.0
64	0	0	0
65	1.0	1.0	1.0
66	0	0	0
67	2.5	2.5	2.5
68	2.5	2.5	2.5
69	2.5	2.5	2.5
70	2.5	2.5	2.5
71	0	0	0

MODE PIN NO.	STOP	FF	REW
72	2.5	2.5	2.5
73	5.0	5.0	5.0
74	2.5	2.5	2.5
75	2.5	2.1	2.1
76	2.5	2.5	2.5
77	2.3	1.9	1.9
78	3.5	3.5	3.5
79	5.0	5.0	5.0
80	4.7	4.7	4.7
81	5.4	5.0	5.0
82	0	5.0	5.0
83	5.0	5.0	5.0
84	3.8	3.8	3.8
85	5.2	5.2	5.2
86	4.8	4.8	4.8
87	5.2	5.2	5.2
88	1.7	1.8	1.8
89	5.2	5.2	5.2
90	5.2	5.2	5.2
91	0	0	0
92	0	0	0
93	4.8	4.7	4.7
94	1.7	1.9	1.9
95	0	0	0
96	0	5.2	5.2
97	5.2	0	0
98	2.5	2.5	2.5
99	5.0	5.0	5.0
100	0.2	0.2	0.2
IC6002			
1	1.2	1.2	1.2
2	0	0	0
3	1.2	1.2	1.2
4	---	---	---
IC6003			
1	2.4	2.4	2.4
2	1.2	1.2	1.2
3	0	0	0
4	---	---	---
Q6001			
E	0	0	0
C	0	5.0	5.0
B	0	0	0
Q6002			
E	12.5	12.1	12.1
C	0.5	1.0	1.0
B	12.1	12.1	12.1
Q6003			
E	0	0	0
C	12.1	12.1	12.1
B	0	0	0
Q6005			
E	5.1	5.1	5.1
C	5.1	5.1	5.1
B	4.4	4.4	4.4
Q6006			
E	0	0	0
C	0	0	0

MODE PIN NO.	STOP	FF	REW
B	0.8	0.8	0.8
Q6009			
E	0	0	0
C	5.1	5.1	5.1
B	---	---	---
Q6010			
E	0	0	0
C	5.1	5.1	5.1
B	---	---	---
TP6001	---	---	---
TP6002	0.1	5.2	5.2
TP6003	3.8	3.8	3.8
TP6004	5.1	5.1	5.1
TP6005	5.1	5.1	5.1
TP6007	0	0	0
TP6008	0	0	0
TP6009	5.2	5.2	5.2
TP6010	0	0	0
TP6012	2.0	1.0	1.0
TP6013	2.5	2.5	2.5
TP6014	---	---	---
TP6016	3.5	3.5	3.5
TP6017	5.2	0	0
TP6018	0	5.2	5.2
TP6019	0	0	0
TP6201	2.6	2.0	2.0
TP6202	4.5	2.4	2.4
TP6203	2.5	2.5	2.5
TP6204	1.0	1.0	1.0
TP6205	2.6	2.6	2.6
TP6206	2.5	2.5	2.5
TP6207	2.5	2.5	2.5
TP6208	2.4	2.6	2.6
TP6209	4.9	2.2	2.2
TP6210	2.3	1.9	1.9

VOLTAGE CHARTS

CAPSTAN STATOR
CIRCUIT

MODE PIN NO.	REC	PLAY	MODE PIN NO.	STOP	FF	REW
IC2501			IC2501			
1	13.0	13.0	1	13.0	13.0	13.0
2	13.0	13.0	2	13.0	13.0	13.0
3	13.5	13.5	3	13.5	13.5	13.5
4	1.2	1.2	4	1.2	1.2	1.2
5	1.2	1.2	5	1.2	1.2	1.2
6	1.2	1.2	6	1.2	1.2	1.2
7	0.1	2.7	7	0.1	0.1	0.1
8	0	0	8	0	0	0
9	2.6	2.6	9	2.6	2.6	2.6
10	1.5	1.5	10	1.5	1.5	1.5
11	2.6	2.6	11	2.6	2.6	2.6
12	0.5	0.5	12	0.5	0.5	0.5
13	3.9	3.9	13	3.9	3.9	3.9
14	3.9	3.9	14	3.9	3.9	3.9
15	0	0	15	0	0	0
16	0	0	16	0	0	0
17	---	---	17	---	---	---
18	13.5	13.5	18	13.5	13.5	13.5
19	2.8	2.8	19	2.8	2.8	2.8
20	0	0.7	20	0	0	0
21	2.8	2.8	21	2.8	2.8	2.8
22	0	0.7	22	0	0	0
23	0.2	1.4	23	0.2	0.2	0.2
24	0	0	24	1.8	0	0
25	0	0	25	1.8	0	0
26	13.5	13.5	26	13.5	13.5	13.5
27	---	---	27	---	---	---
28	5.1	5.1	28	5.2	5.2	5.2

VOLTAGE CHARTS

(FOR MODEL
VR692HF)

ADVANCE CIRCUIT

MODE PIN NO.	REC	PLAY
IC3801		
1	5.0	5.0
2	1.0	0.9
3	2.9	3.0
4	2.9	3.0
5	2.3	2.3
6	---	---
7	3.0	3.0
8	0	0
9	---	---
10	3.0	3.0
11	4.9	4.9
12	1.3	1.3
13	1.3	1.3
14	---	---
15	---	---
16	4.7	4.7
17	---	---
18	0.6	0.6
19	---	---
20	---	---
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	---	---
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
TP3801	3.1	3.1
TP3802	2.9	2.9
TP3803	3.0	3.0

MODE PIN NO.	REC	PLAY
IC6301		
1	5.0	5.0
2	---	---
3	---	---
4	-26.6	-26.6
5	-26.6	-26.6
6	-26.6	-26.6
7	-26.6	-26.6
8	-26.6	-26.6
9	-26.6	-26.6
10	5.1	5.1
11	-29.8	-29.8
12	-26.2	-26.2
13	-21.8	-21.8
14	-13.1	-13.1
15	-17.6	-17.6
16	-21.9	-21.9
17	-21.8	-21.8
18	-13.1	-13.1
19	-4.8	-4.8
20	-4.8	-4.8
21	-13.2	-13.2
22	-4.7	-4.7
23	-0.7	-0.7
24	5.2	5.2
25	5.2	5.2
26	5.2	5.2
27	5.2	5.2
28	2.3	2.3
29	2.3	2.3
30	5.1	5.1
31	0	0
32	5.2	5.2
33	5.2	5.2
34	5.2	5.2
35	---	---
36	2.5	2.5
37	0	0
38	4.7	4.7
39	5.1	5.1
40	4.5	4.5
41	---	---
42	---	---
IC6401		
1	0	0
2	0	0
3	5.1	5.1
4	---	---
5	---	---
6	0	0
7	0	0
8	0	0
9	5.1	5.1
10	2.6	2.6
11	2.5	2.5
12	0	0
13	5.1	5.1
14	5.1	5.1
15	5.1	5.1

[illegible]

VOLTAGE CHARTS

(FOR MODEL VG4043)
HEAD AMP CIRCUIT

MODE PIN NO.	REC	PLAY	MODE PIN NO.	STOP	FF	REW
IC2601			IC2601			
1	13.0	13.0	1	13.0	13.0	13.0
2	13.0	13.0	2	13.0	13.0	13.0
3	13.5	13.5	3	13.5	13.5	13.5
4	1.2	1.2	4	1.2	1.2	1.2
5	5.1	5.1	5	5.1	5.1	5.1
6	0.9	0.9	6	0.9	0.9	0.9
7	1.0	1.0	7	1.0	1.0	1.0
8	0.7	0.7	8	0.7	0.7	0.7
9	2.6	2.6	9	2.6	2.6	2.6
10	1.5	1.5	10	1.5	1.5	1.5
11	0	0	11	0	0	0
12	3.9	3.9	12	3.9	3.9	3.9
13	3.9	3.9	13	3.9	3.9	3.9
14	3.9	3.9	14	3.9	3.9	3.9
15	0.1	0.1	15	0.1	0.1	0.1
16	13.2	13.2	16	13.2	13.2	13.2
IC3501						
1	2.6	2.6				
2	0	4.2				
3	0.3	1.4				
4	0	0.7				
5	0	0				
6	0	0.7				
7	0.2	1.4				
8	0	0				
9	0	0				
10	0.2	2.2				
11	0	0				
12	0	0				
13	0	0				
14	0.2	2.2				
15	---	---				
16	6.3	0				
17	6.3	0				
18	6.3	0				
19	---	---				
20	---	---				
21	---	---				
22	---	---				
23	---	---				
24	---	---				
25	11.9	0.5				
26	5.0	5.0				
27	0	0				
28	0	0				
29	0	0				
30	2.7	2.3				
31	5.1	0.1				
32	0.1	0.1				
33	0	0				
34	0.1	0.7				
35	12.0	12.0				
36	0.1	5.0				
TP3501	0	0				

VOLTAGE CHARTS

(FOR MODELS
VR632HF, VR692HF)
Hi-Fi AUDIO/VIDEO
HEAD AMP CIRCUIT

MODE PIN NO.	REC	PLAY	MODE PIN NO.	STOP	FF	REW
IC2601			IC2601			
1	13.0	13.0	1	13.0	13.0	13.0
2	13.0	13.0	2	13.0	13.0	13.0
3	13.5	13.5	3	13.5	13.5	13.5
4	1.2	1.2	4	1.2	1.2	1.2
5	5.1	5.1	5	5.1	5.1	5.1
6	0.9	0.9	6	0.9	0.9	0.9
7	1.0	1.0	7	1.0	1.0	1.0
8	0.7	0.7	8	0.7	0.7	0.7
9	2.6	2.6	9	2.6	2.6	2.6
10	1.5	1.5	10	1.5	1.5	1.5
11	0	0	11	0	0	0
12	3.9	3.9	12	3.9	3.9	3.9
13	3.9	3.9	13	3.9	3.9	3.9
14	3.9	3.9	14	3.9	3.9	3.9
15	0.1	0.1	15	0.1	0.1	0.1
16	13.2	13.2	16	13.2	13.2	13.2
IC3501						
1	2.6	2.6				
2	0	4.2				
3	0.3	1.4				
4	0	0.7				
5	0	0				
6	0	0.7				
7	0.2	1.4				
8	0	0				
9	0	0				
10	0.2	2.2				
11	0	0				
12	0	0				
13	0	0				
14	0.2	2.2				
15	---	---				
16	6.3	0				
17	6.3	0				
18	6.3	0				
19	---	---				
20	---	---				
21	---	---				
22	---	---				
23	---	---				
24	---	---				
25	11.9	0.5				
26	5.0	5.0				
27	0	0				
28	0	0				
29	0	0				
30	2.7	2.3				
31	5.1	0.1				
32	0.1	0.1				
33	0	0				
34	0.1	0.7				
35	12.0	12.0				
36	0.1	5.0				
IC4401						
1	0	2.6				
2	4.0	0				
3	0.6	0				
4	0	0				

MODE PIN NO.	REC	PLAY
IC4401		
1	0	2.6
2	4.0	0
3	0.6	0
4	0	0
5	0.6	0.7
6	4.0	0
7	1.0	1.0
8	---	---
9	2.6	2.6
10	5.1	5.1
11	0	0
12	0	0
13	3.9	3.9
14	3.9	3.9
15	0.1	0.1
16	13.0	13.0
TP3501	0	0
TP4402	4.0	0
TP4405	3.9	3.9
TP4406	2.6	2.6