

SCHEMATIC DIAGRAM

All resistors are 1/2 watt, 10% unless otherwise noted.

PART #			PART #			PART #			PART #					
R 1	1.2 megohms	112125	R 18	1.2 megohms	112125	R 35	470,000 ohms	112474	C 9	330 pf mica 5%	247331	D 1	Silicon rectifier, 500 ma, 1000 PIV	544529
R 2	150,000 ohms 1/2 Watt 5%	133154	R 19	47,000 ohms	102473	R 36	470,000 ohms	112474	C 10	3.3 nf 10%	266332	D 2	Silicon rectifier, 500 ma, 1000 PIV	544529
R 3	5,600 ohms 5%	113562	R 20	390 ohms 5%	103391	R 37	82,000 ohms 5%	113823	C 11	10 nf 10%	266103		volume control—250,000 ohms	177254
R 4	120 ohms 1/2 Watt 5%	133121	R 21	18,000 ohms 5%	113183	R 38	22,000 ohms	112223	C 12	10 nf 10%	266103		balance control—750,000 ohms	167754
R 5	120 ohms 1/2 Watt 5%	133121	R 22	100,000 ohms 5%	113104	R 39	2200 ohms 1 watt	114222	C 13	3.3 nf 10%	266332		bass control—2 megohms	167205
R 6	1.2 megohms	112125	R 23	47,000 ohms	102473	R 40	2200 ohms 1 watt	114222	C 14	3.3 nf 10%	266332		treble control—500,000 ohms	167504
R 7	47,000 ohms	102473	R 24	1.5 megohms	112155	R 41	50 ohms 5 watts	120500	C 15	22 nf 10%	266223		hum control—1,000 ohms	147102
R 8	390 ohms 5%	103391	R 25	10,000 ohms	112103	R 42	95 ohms 5 watts 5%	120950	C 16	22 nf 10%	266223	V 1	12AX7/ECC-83	517003
R 9	18,000 ohms 5%	113183	R 26	10,000 ohms	112103	C 1	.1 mfd @ 16 v.	223104	C 17	.1 mfd @ 16 v.	223104	V 2	12AX7/ECC-83	517003
R 10	100,000 ohms 5%	113104	R 27	18,000 ohms	112183	C 2	22 nf @ 400 v.	266223	C 18	.1 mfd @ 250 v.	265105	V 3	7199	517004
R 11	47,000 ohms	102473	R 28	18,000 ohms	112183	C 3	.1 mfd @ 400 v.	266104	C 19	.1 mfd @ 400 v.	266104	V 4	7199	517004
R 12	1.5 megohms	112155	R 29	4.7 megohms	112475	C 4	.1 mfd @ 400 v.	266104	C 20	.1 mfd @ 400 v.	266104	V 5	6BQ5/EL-84	517005
R 13	1.2 megohms	112125	R 30	270,000 ohms 1 watt 5%	116274	C 5	330 pf mica 5%	247331	C 21	12 pf @ 500 v. 5%	244120	V 6	6BQ5/EL-84	517005
R 14	150,000 ohms 1/2 Watt 5%	133154	R 31	560 ohms 5%	113561	C 6	3.3 nf 10%	266332	C 22	.02 mfd @ 500 v.	227203	V 7	6BQ5/EL-84	517005
R 15	5,600 ohms 5%	113562	R 32	22,000 ohms 1 watt 5%	116223	C 7	.1 mfd @ 16 v.	223104	C 23	50/50 mfd @ 450 v.	297107	V 8	6BQ5/EL-84	517005
R 16	120 ohms 1/2 Watt 5%	133121	R 33	120,000 ohms 5%	113124	C 8	22 nf @ 400 v.	266223	C 24	100 @ 25 v.	297227			
R 17	120 ohms 1/2 Watt 5%	133121	R 34	27,000 ohms 1 watt 5%	116273									

VOLTAGE CHART

PIN	1	2	3	4	5	6	7	8	9
V1 & V2 (12AX7)	180	-2	.5	6.3 A.C.	105	0	.25		
V3 & V4 (7199)	255	55	32	6.3 A.C.	.7	0	70	55	
V-5-6-7-8 (6BQ5)	0*	0	16	6.3 A.C.	0*	360	0*	365	
TS-1 LUG	0	380	0	315 A.C.	315 A.C.				
C24 LUG	380	370	350	14					
C23 LUG	320	250							

* UNUSED PINS MAY HAVE INTERNAL CONNECTIONS, THEREFORE SOME TUBES (DEPENDING ON BRAND), MAY HAVE VOLTAGES APPEAR AT THESE POINTS.
VOLTAGES MEASURED WITH V.T.V.M.

