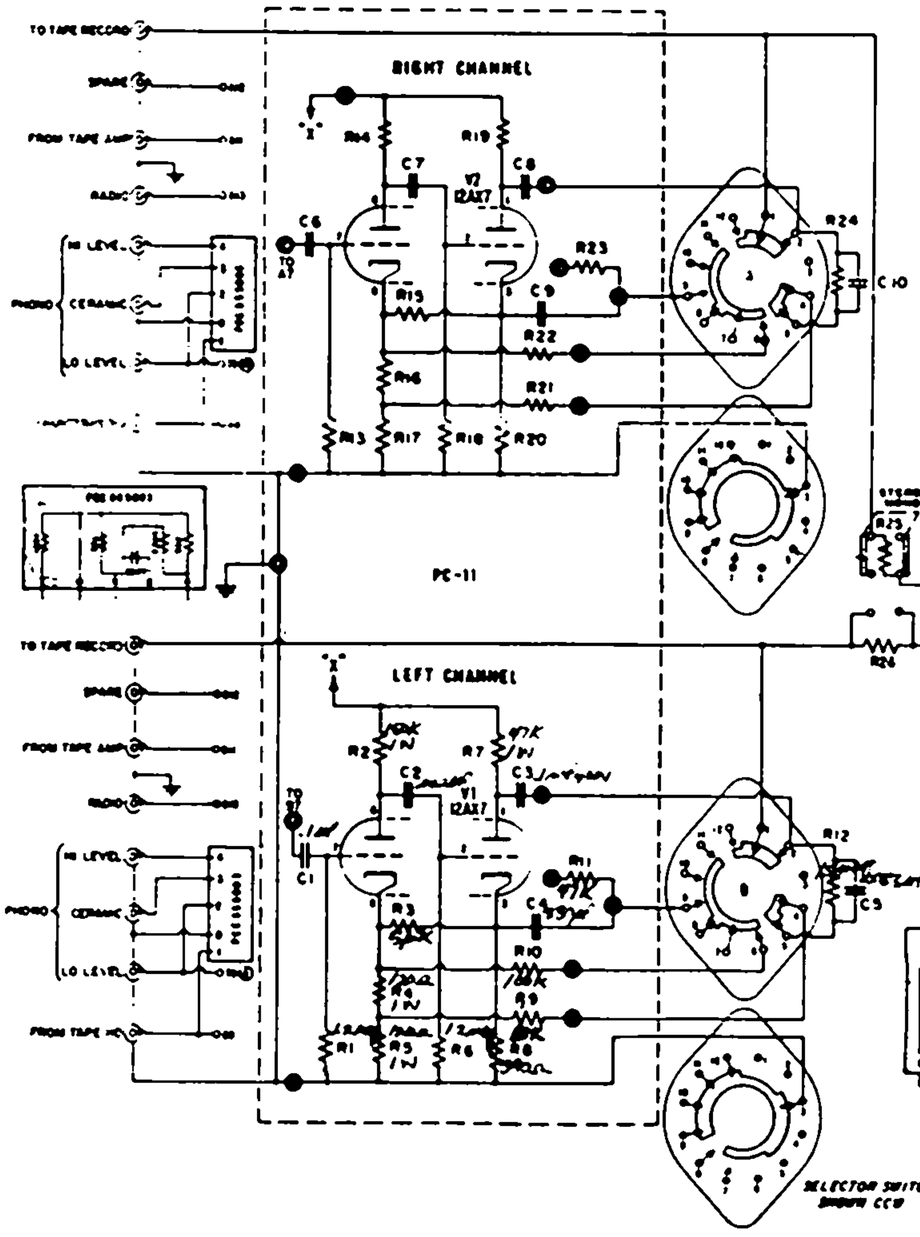
SCHEMATIC DIAGRAM

All resistors are ½ watt, 10% unless otherwise noted.

		PART #			PART #			PART #			PART #
R 1	1.2 megohms	112139	R 18	1.2 megohms	112139	R 35	470,000 ohms	113074	C 9	330 µf mica 5%	047331
R 2	150,000 ohms } 1 watt 5%	120154	R 19	47,000 ohms	109473	R 36	470,000 ohms	113074	C 10	.1 mf 10%	088108
R 3	5,600 ohms 5%	113068	R 20	390 ohms 5%	103394	R 37	82,000 ohms 5%	112103	C 11	.10 mf 10%	088108
R 4	120 ohms } watt 5%	120121	R 21	18,000 ohms 5%	113103	R 38	22,000 ohms	112103	C 12	.10 mf 10%	088108
R 5	120 ohms } watt 5%	120121	R 22	100,000 ohms 5%	113104	R 39	2200 ohms 1 watt	114093	C 13	.1.5 mf 10%	088109
R 6	1.2 megohms	112139	R 23	47,000 ohms	109473	R 40	2200 ohms 1 watt	114093	C 14	.1.5 mf 10%	088109
R 7	47,000 ohms	109473	R 24	1.5 megohms	112150	R 41	50 ohms 5 watts	120080	C 15	.22 mf 10%	088110
R 8	390 ohms 5%	103394	R 25	10,000 ohms Adjust 95.4k	112103	R 42	95 ohms 5 watts 5%	120080	C 16	.22 mf 10%	088110
R 9	18,000 ohms 5%	113063	R 26	10,000 ohms	112103	C 1	.1 mfd ● 16 v.	082004	C 17	.1 mfd ● 16 v.	082004
R 10	100,000 ohms 5%	113104	R 27	18,000 ohms	112103	C 2	.22 mf ● 400 v.	088108	C 18	.1 mfd ● 250 v.	088108
R 11	47,000 ohms	109473	R 28	18,000 ohms	112103	C 3	.1 mfd ● 400 v.	088108	C 19	.1 mfd ● 400 v.	088108
R 12	1.5 megohms	112150	R 29	4.7 megohms	113075	C 4	330 µf mica 5%	047331	C 20	.1 mfd ● 400 v.	088108
R 13	1.2 megohms	112139	R 30	270,000 ohms 1 watt 5%	114074	C 5	.1.5 mf 10%	088109	C 21	.12 µf ● 500 v. 5%	044105
R 14	150,000 ohms } 1 watt 5%	120154	R 31	560 ohms 5%	113061	C 6	.1 mfd ● 16 v.	082004	C 22	.02 mfd ● 500 v.	027080
R 15	5,600 ohms 5%	113068	R 32	22,000 ohms 1 watt 5%	114093	C 7	.22 mf ● 400 v.	088108	C 23	50/50 mfd ● 450 v.	089107
R 16	120 ohms } watt 5%	120121	R 33	120,000 ohms 5%	113104	C 8	.1 mfd ● 400 v.	088108	C 24	60/40/20 ● 450 v.	089107
R 17	120 ohms } watt 5%	120121	R 34	27,000 ohms 1 watt 5%	114073					100 ● 25 v.	

		PART #
S 1	Silicon rectifier, 500 ma, 1100 PIV	044089
S 2	Silicon rectifier, 500 ma, 1100 PIV	044089
	volume control—250,000 ohms	117084
	balance control—750,000 ohms	107104
	bass control—2 megohms	107088
	treble control—500,000 ohms	107084
	fixed control—1,000 ohms	107108
V 1	12AX7/ECC-83	047088
V 2	12AX7/ECC-83	047088
V 3	7199	047084
V 4	7199	047084
V 5	6AQ5/EL-84	047088
V 6	6AQ5/EL-84	047088
V 7	6AQ5/EL-84	047088
V 8	6AQ5/EL-84	047088



VOLTAGE CHART									
PIN	1	2	3	4	5	6	7	8	9
V1 & V2 (12AX7)	100	-2	5	6.3		105	0	25	
V3 & V4 (7199)	250	55	32	6.3		7	0	70	55
V-5-6-7-8 (6BQ5)	0	0	16	6.3		0	360	0	365
TS-1 LUG	0	360	0	25	38				
C24 LUG	360	370	350	—					
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 VTVM