

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

The diagram illustrates the internal circuitry of a vacuum tube radio receiver, organized into three main sections: PC-8, PC-7, and a power section.

PC-8 Section: This section contains three 6X4 tubes (V3, V4, V5) and a 6X5 tube (V8). The circuit includes various resistors (R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30) and capacitors (C14, C15, C16, C17, C18, C19, C20, C21). The tubes are connected in a series of stages, with V3, V4, and V5 likely serving as the main amplifier stages, and V8 as the detector or rectifier stage.

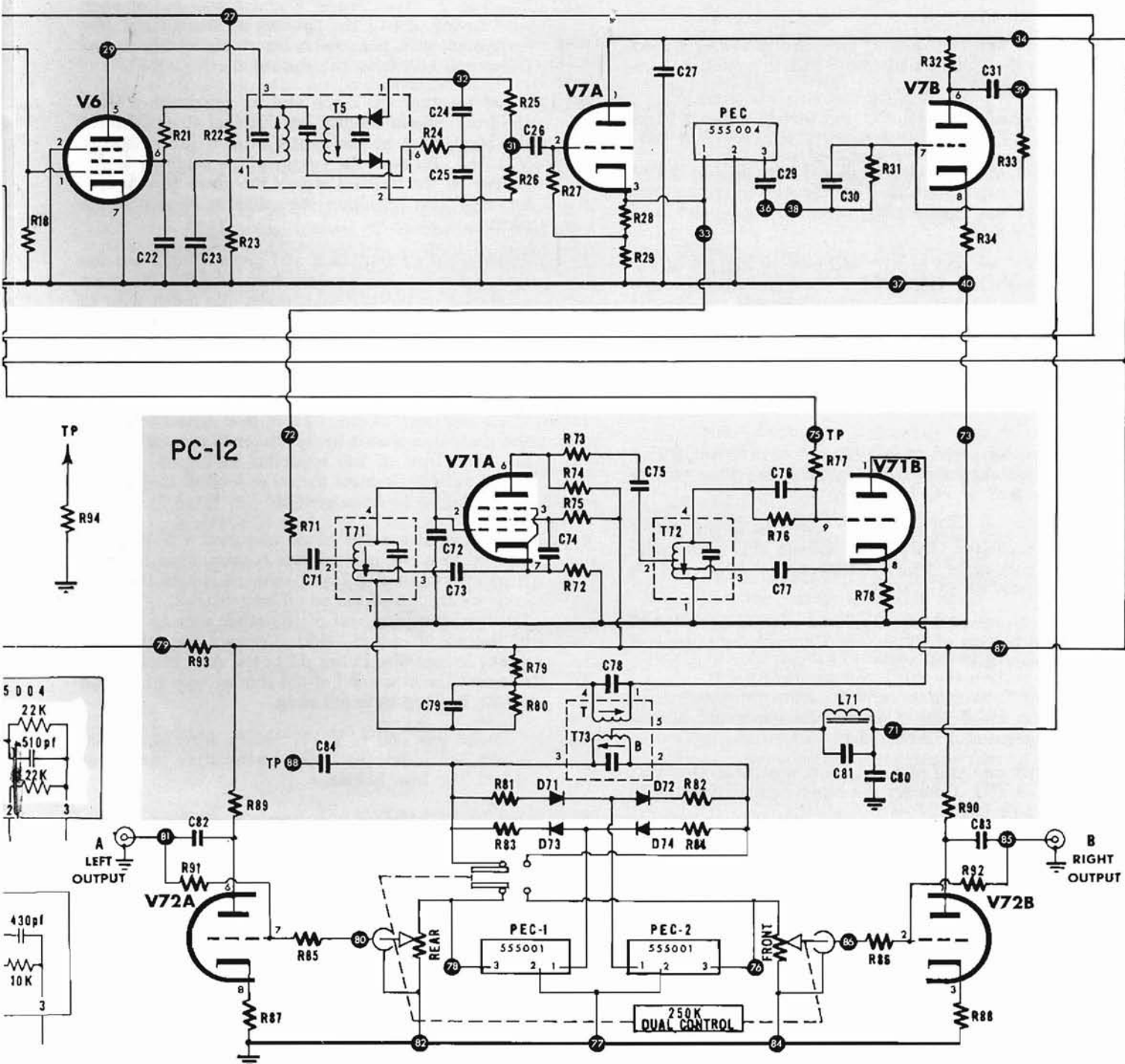
PC-7 Section: This section contains two 6X4 tubes (V1, V2) and a 6X5 tube (V9). The circuit includes various resistors (R1, R2, R3, R4, R5, R6, R7, R8) and capacitors (C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21). The tubes are connected in a series of stages, with V1 and V2 likely serving as the main amplifier stages, and V9 as the detector or rectifier stage.

Power Section: This section includes a transformer (PA509) with a 1A SLO BLO A.C. OUTLET. The circuit includes various resistors (R36, R37, R38) and capacitors (C32, C33, C34, C35, C36, C37, C38, C39). The transformer is connected to the power supply, and the capacitors and resistors are used to filter and regulate the power supply voltage.

Component Values: The diagram includes several component values, such as 83pF, 51K, 510pF, 82K, and 555001. These values are used to specify the exact components required for the circuit.

47 mfd	225472	C 22	.0047 mfd	225472	C 38	180 mmfd	225181	D 71	1N541	542541	T 1	I.F. transformer	V 1	6AQ8/ECC85
mmfd NPO	225100	C 23	.0047 mfd	225472	C 39	180 mmfd	225181	D 72	1N541	542541	T 2	I.F. transformer	V 2	6AT8A
5 mmfd N2200	240250	C 24	47 mmfd NPO	244471	C 71	500 mmfd	245501	D 73	1N541	542541	T 3	I.F. transformer	V 3	6BA6
amic trimmer	219010	C 25	47 mmfd NPO	244471	C 72	220 mmfd	245221	D 74	1N541	542541	T 4	I.F. transformer	V 4	6BA6
47 mfd	225472	C 26	.01 mfd	244103	C 73	.012 mfd	245123	L 1	antenna coil	412001	T 5	I.F. transformer	V 5	6AU6/EF94
47 mfd	225472	C 27	.0047 mfd	225472	C 74	.0068 mfd	246682	L 2	3.9 μ h choke	423001	T 6	I.F. transformer	V 6	6AU6/EF94
mmfd	240220	C 28	.0047 mfd	225472	C 75	500 mmfd	245501	L 3	mixer coil	412003	T 7	I.F. transformer	V 7	12AX7/ECC83
mmfd	244471	C 29	.47 mfd	244474	C 76	.001 mfd	245102	L 4	oscillator coil	412004	T 8	Discriminator	V 8	EMM801
mmfd	225181	C 30	27 mmfd	244271	C 77	.0033 mfd	246332	L 5	heater choke	423002	T 9	transformer	V 9	6V4/EZ80
47 mfd	225472	C 31	.22 mfd @ 200 v.	235224	C 78	.0015 mfd	246152	L 6	heater choke	423002	T 10	transformer	V 10	6BL8/ECF80
mmfd NPO	244471	C 32	40/40/20/20 mfd		C 79	.01 mfd	245103	L 7	heater choke	423002	T 11	19 K.C. transformer	V 11	12AX7/ECC83
47 mfd	225472		@ 350 v.	296127	C 80	500 mmfd	245501	L 8	heater choke	423002	T 12	19 K.C. transformer		
mmfd NPO	244471	C 33	.02 mfd	227203	C 81	100 mmfd	245101	L 9	heater choke	423002	T 13	38 K.C. transformer		
47 mfd	225472	C 34	.0047 mfd	225472	C 82	.1 mfd	246104	L 71	53 mh choke	422530				
47 mfd	225472	C 35	.0047 mfd	225472	C 83	.1 mfd	246104		fuse—1 ampere slo-blo					
mmfd NPO	244471	C 36	.0047 mfd	225472	C 84	18 mmfd	245180		pilot lamp—#47					
mmfd	244103	C 37	.0047 mfd	225472										

volume control—dual,
250,000 ohms each
section with push-
pull switch — 180254



DIAGRAM