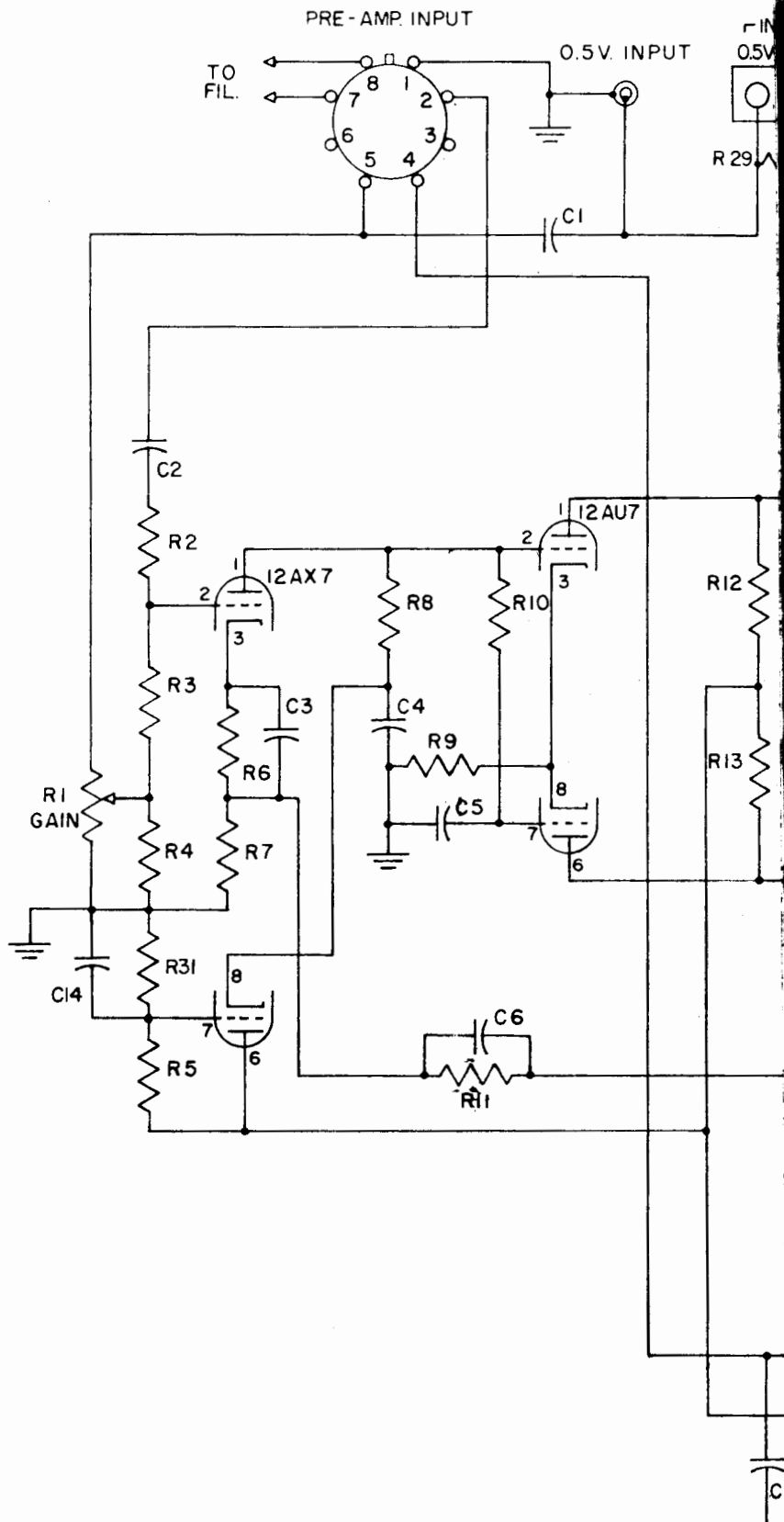


4 ohms - pins 1 and 2  
8 ohms - pins 1 and 3  
16 ohms - pins 1 and 4  
500/600 ohms - pins 7 and 8  
(pin 6 is CT and ground)  
70.7 Volts - pins 5 and 6  
(pin 6 is ground)

Pin 1 - ground  
Pin 2 - pre-amp input (2.5V)  
Pin 3 - not used  
Pin 4 - +360V at 3.5 ma.  
Pin 5 - not used  
Pin 6 - not used  
Pins 7 and 8 - 6.3V at 1 amp.

Note 1 - This jumper strap may be removed if ungrounded low impedance outputs are desired



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R1  500K Pot. (Gain Adj.)
R2  100K
R3  27K
R4  3.3M
R5  560K, 5%
R6  3.3K
R7  68 ohms, 5%
R8  100K
R9  18K, 1W
R10 2.2M
R11 1.3K, 5%
R12 27K, 5%
R13 30K, 5%
R14 220K
R15 220K
R16 not used
R17 12K*, 2W
R18 1.2K
R19 120K, 5%
R20 12K*, 2W
R21 1M
R22 820K
R23 1M
R24 220K
R25 220K
R26 1.8K
R27 10K, 10W
R28 10K, 2W
R29 180K
R30 250 ohm Pot, (hum adj.)
R31 270K, 5%
R32 220K
R33 220K
R34 220, 1W
R35 220, 1W

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CH1	Plate	Choke
CH2	Plate	Choke
C1	.1mf	400V
C2	.47mf	200V
C3	100mf	12V
C4	8mf	250V
C5	.22mf	400V
C6	470mmf	500V
C7	.047mf	600V
C8	.047mf	600V
C9	.25mf	600V
C10	.25mf	600V
C11A	35mf	500V
C11B	80mf	450V
C11C	15mf	450V
C12A	35mf	500V
C12B	80mf	450V
C12C	15mf	450V
C13	10mf	450V
C14	.47mf	200V

\*Matched to within 1%



# VOLTAGE AND RESISTANCE CHART

Tube	Pin No.	DC Volts No Signal	DC Volts at 60W out	AC Volts at 60W out	Resistance in Ohms Unit Off
12AX7	1	82	81	1.5	Inf.
	2	0	0	.45	100K to 560K
	3	1.1	1.1	.45	3.3K
	6	360	310	0	10K*
	7	108	108	0	1.2M*
	8	111	110	0	Inf.
12AU7	1	284	240	8.4	40K*
	2	82	81	1.5	Inf.
	3	92	88	.5	18K
	6	284	240	8.4	38K*
	7	62 Approx.	67 Approx.	0	Inf.
	8	92	88	.5	18K
12BH7	1	340	285	148	12K*
	2	0	0	11.6	210K
	3	16.5	15	.52	1.2K
	6	340	285	148	12K*
	7	0	0	11.2	210K
	8	16.5	15	.52	1.2K
12AX7	1	430	365	106	45*
	2	-45	-44	148	1M
	3	-45	-45	148	140K
	6	430	365	106	45*
	7	-45	-44	148	1M
	8	-45	-45	148	140K
6550 (Both Tubes)	3	430	365	106	45*
	4	430	360	110	2500*
	5	-45	-45	148	140K
	8	.8	-2.5	110	6
5U4GA (Both Tubes)	2	435	380	9.4	0*
	4	0	0	335	14
	6	0	0	335	15
	8	435	380	6.4	0*
Pre-Amp Input Socket	4	425	365	0	10K*
	5	0	0	.36	320K