

# Princeton Test Voltages Inital Build

V1 12AX7	PLATE	GRID	CATHODE	HEATER	HEATER	PLATE	GRID	CATHODE	HEATER
PIN	1	2	3	4	5	6	7	8	9
Design	160.0		1.3	H	H	160.0		1.3	H
Measured	146.5		1.1	H	H	146.1		1.1	H

V2 12AT7	PLATE	GRID	CATHODE	HEATER	HEATER	PLATE	GRID	CATHODE	HEATER
	1	2	3	4	5	6	7	8	9
Design	400.0		8.0	H	H	400.0		8.0	H
Measured	357.8		7.2	H	H	357.8		7.1	H

V3 12AX7	PLATE	GRID	CATHODE	HEATER	HEATER	PLATE	GRID	CATHODE	HEATER
	1	2	3	4	5	6	7	8	9
Design	160.0		1.2	H	H	160.0		1.2	H
Measured	141.9		1.2	H	H	143.0		1.2	H

V4 12AX7	PLATE	GRID	CATHODE	HEATER	HEATER	PLATE	GRID	CATHODE	HEATER
PIN	1	2	3	4	5	6	7	8	9
Design	260.0		2.4	H	H	200.0		50.0	H
Measured	223.8		2.1	H	H	172.5		50.4	H

Power Tubes 6V6GT	N/A	HEATER	PLATE	SCREEN	GRID	N/A	HEATER	CATHODE
	1	2	3	4	5	6	7	8
Design	N/A	H	410.0	400.0	-34.0	N/A	H	0.0
V5 INNER	N/A	H	373.8	363.3	-33.6	N/A	H	
V6 OUTER	N/A	H	373.4	363.3	-33.6	N/A	H	

Rectifier GZ34	N/A	HEATER	N/A	PLATE	HEATER	PLATE	H/K
	1	2	3	4	5	6	8
Design	N/A	H	N/A	340	H	340.0	420.0
Measured	N/A	H	N/A	299.6	H	299.8	376.0

	A	B	C	D	V input	HEATER	HEATER
Design	420.0	400.0	320.0	240.0	120.0	3.15	3.15
Measured	375.6	363.9	292.8	222.0	120.0	3.20	3.20

	MAX PD
OUTPUT TUBE TYPE:	6V6GT 12

OUTPUT TUBE	OUTPUT TRANS RESISTANCE	VOLTAGE DROP	PLATE CURRENT	PLATE VOLTAGE	PLATE DISSIPATION	% MAX PD	GRID VOLTAGE	COMMENTS
OUTER	116.0	2.148	0.019	373.4	6.9	57.6	-33.6	
INNER	115.5	2.141	0.019	373.8	6.9	57.7	-33.6	

No Input signal  
 All controls set to '1'  
 Tremolo off  
 8 ohm dummy load  
 470 ohm screen resistors on output tubes