

## VOLTAGE AND RESISTANCE CHARTS

### VOLTAGE READINGS

	12BY7A	12BY7A	12BY7A	12BY7A	12BY7A	12BY7A	KT88-6550	KT88-6550	KT88-6550	KT88-6550
PIN	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10
1	5V	150V	150V	5V	150V	150V	0.6VAC	NC	NC	NC
2	0V	110V	110V	0V	110V	110V	3.1VAC	3.1VAC	3.1VAC	3.1VAC
3	5V	150V	150V	5V	150V	150V	450V	450V	450V	450V
4	1.5VAC	3.1VAC	3.1VAC	1.5VAC	3.1VAC	3.1VAC	450V	450V	450V	450V
5	1.5VAC	3.1VAC	3.1VAC	1.5VAC	3.1VAC	3.1VAC	-50V*	-50V*	-50V*	-50V*
6	3.1VAC	3.1VAC	3.1VAC	3.1VAC	3.1VAC	3.1VAC	450V	450V	450V	450V
7	160V	285V**	285V**	160V	285V**	285V**	3.1VAC	3.1VAC	3.1VAC	3.1VAC
8	210V	340V	340V	210V	340V	340V	1.5V	1.5V	1.5V	1.5V
9	5V	150V	150V	5V	150V	150V	—	—	—	—

Readings may vary  $\pm 20\%$ .

**NOTE:** All measurements to gnd. with VTVM—117 Line—No signal input. All voltages DC unless otherwise noted.  
 \* Differences in these voltages are normal but cathode currents should be equal.  
 \*\* These voltages will be equal with balanced tubes, but may differ without affecting performance.

### RESISTANCE READINGS

	12BY7A	12BY7A	12BY7A	12BY7A	12BY7A	12BY7A	KT88-6550	KT88-6550	KT88-6550	KT88-6550
PIN	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10
1	220 $\Omega$	5K	5K	220 $\Omega$	5K	5K	—	—	—	—
2	1M	1M	1M	1M	1M	1M	0.1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$
3	220 $\Omega$	5K	5K	220 $\Omega$	5K	5K	62 $\Omega$	62 $\Omega$	62 $\Omega$	62 $\Omega$
4	1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$	1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$	280 $\Omega$	280 $\Omega$	280 $\Omega$	280 $\Omega$
5	1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$	1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$	120K	120K	120K	120K
6	0.1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$	20 $\Omega$	20 $\Omega$	20 $\Omega$	20 $\Omega$
7	16K*	15K**	15K**	16K*	15K**	15K**	0.1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$	0.1 $\Omega$
8	39K*	22K*	22K*	39K*	22K*	22K*	15 $\Omega$	15 $\Omega$	15 $\Omega$	15 $\Omega$
9	220 $\Omega$	5K	5K	220 $\Omega$	5K	5K	—	—	—	—

Readings may vary  $\pm 20\%$ .

**NOTE:** \* These readings are measured from B+ (the Junction of L1 & C15). All other readings to Ground.  
 \*\* These readings are measured from B+ and depend on the position of the AC balance controls. They may vary  $\pm 25\%$ .