

Load	83 Tube	PKH SS 83	Simple SS 83
345K	160.4	160.8	163.3
160K	155.9	156.0	160.5
35K	150.2	149.8	159.1
15K	146.6	148.4	158.1
5K	143.0	143.5	154.9
2K	136.0	135.4	147.3

Load test comparison.

Using 539A power transformer with 100VAC on primary. Voltages taken as DC across the load for variations of load resistance as shown. Circuit configured as in Hickok tester.

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This load test data shows a comparison of voltages for a vacuum tube 83, a solid-state substitution for the 83 (diodes only) and a solid state version developed by Paul Hart, noted here as the PKH SS83. It simulates the characteristics of a vacuum tube 83 to more closely match the results of a tube test. (edit.)

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