HICKOK

TUBE DATA BOOK

for use with

MODEL 799

DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER

10514 DUPONT AVENUE • CLEVELAND, OHIO 44108 U.S.A.

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2490-534

DISCARD ALL PAGES OF YOUR DATA BOOK, 2490-516 OR -516"A", BOTH WHITE & PINK, AND INSERT THESE PAGES

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1969 Chart

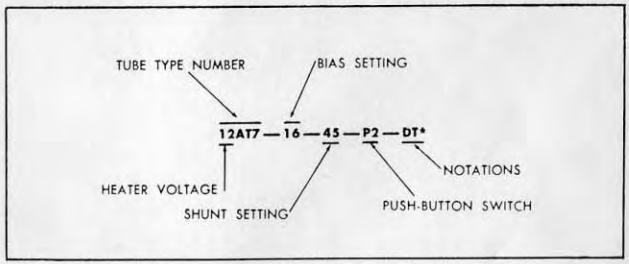
TUBE DATA BOOK AND HOW TO USE IT

All tubes listed are in alpha-numerical sequence. As it is impractical to have all tubes used today inscribed on the front panel of the tester, only the more common tubes will be found there. However, the Tube Data Book contains the necessary test data for all entertainment type tubes, as well as duplicating the tubes inscribed on the panel.

Select the tube data line under the column headed "Tube Type" that corresponds to the number of the tube to be tested. The next column headed "Color" refers to the setting of the COLOR SELECTOR on the panel (R = red, G = green, or B = blue). The next column headed "Htr" refers to the proper voltage setting of the filament or HEATER switch. The next two columns headed "Bias" and "Shunt" refer to the proper positioning of the BIAS and SHUNT controls on the panel. The column headed "Socket" refers to the proper socket into which the tube should be placed. The column headed "Press" refers to the proper push-button switch to use to get a test reading. The column headed "Notations" refers to any special instructions for the particular tube to be tested and is found in the frame below, titled "NOTATIONS". A graphic presentation and explanation of the tube data line is found in the frame below, titled "EXPLANATION OF TYPICAL TUBE DATA LINE".

SYMBOLS AND ABBREVIATIONS	INTERPRETATIONS AND DIRECTIONS
P	Connect cap lead to P (plate) jack
DT	Dual type, repeat instructions while depressing P6
350 MIN.	Tube is satisfactory with minimum reading of 350
SHORT POS. 1	Good tube indicates short on LEAKAGE position 1
HTR-1.4V	Set HEATER switch to 1.4
*	Disregard short on LEAKAGE position 3 (SEE NOTE)
!	Make leakage test with HEATER switch OFF
★	Disregard gas test

NOTATIONS



EXPLANATION OF TYPICAL TUBE DATA LINE

SPECIAL NOTE FOR SOCKET 27: When testing tubes marked with an asterisk (*) in socket 27, make normal test but disregard Leakage switch position #3. Then make Heater-to-Cathode leakage test as follows: (1) set Leakage switch on position #3; (2) set color selector on blue; (3) set P6 pushbutton switch "up." Meter deflection under these conditions indicates Heater-to-Cathode leakage.

ADAPTERS: Models SA-8 & SA-10, referred to in "Notations," are available through your authorized Hickok Representative, or from the factory

(B)

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
0Z4	R	---	0	36	1	P4	D. T.
1A5	R	1. 4	55	41	23	P1	♦
1A7	R	1. 4	77	0	23	P1	♦ Cap = K
1AD2	R	1. 1	0	0	24	P6, P3	Cap = P
1AE4	R	1. 1	30	74	22	P1	♦
1AF4	R	1. 4	29	0	22	P1	♦
1AJ4	R	1. 4	38	0	22	P1	♦
1AU2	R	1. 1	0	0	5	P5, P3	250 Min
1AU3	B	1. 1	0	0	23	P6, P3	Cap = P
1AX2	R	1. 4	0	0	6	P6, P3	Cap = P 350 Min
1B3	B	1. 1	0	34	23	P6, P3	Cap = P. For GE tubes use SA-10 Adapter
1B7	R	1. 4	80	0	23	P1	♦ Cap = K
1C5	R	1. 4	63	79	23	P1	♦
1C7	R	2	72	0	23	P1	♦ Cap = K
1D5	R	2	57	0	23	P1	♦ Cap = G
1D7	R	2	70	0	23	P1	♦ Cap = K
1DN5	R	1. 4	43	0	22	P1	♦
1F5	R	2	37	86	23	P1	♦
1G3	B	1. 1	0	34	23	P6, P3	Cap = P. For GE tubes use SA-10 Adapter
1G4	R	1. 4	51	0	23	P1	♦
1G5	R	2	62	76	23	P1	♦
1H2	B	1. 4	0	30	26	P6, P3	Cap = P
1H4	R	1. 4	47	0	23	P1	♦ 350 Min
1J3, A	B	1. 1	0	0	23	P6, P3	Cap = P. For GE tubes use SA-10 Adapter
1J5	R	2	64	56	23	P1	♦
1K3	B	1. 1	0	0	23	P6, P3	Cap = P. For GE tubes use SA-10 Adapter
1L4	R	1. 4	40	48	22	P1	♦
1N2	B	1. 1	0	34	23	P6, P3	Cap = P
1P5	R	1. 4	29	0	23	P1	♦ Cap = G
1Q5	R	1. 4	50	86	23	P1	♦
1R5	R	1. 4	48	72	22	P1	♦
1S2A	R	1. 4	0	37	6	P6, P3	Cap = P
1S4	G	1. 4	73	75	22	P1	♦
1T4	R	1. 4	43	0	22	P1	♦
1T5	R	1. 4	60	58	23	P1	♦
1U4	R	1. 4	29	20	22	P1	♦
1U5	R	1. 4	41	0	22	P1	♦ 350 Min
1U5	G	1. 4	0	40	22	P6, P5, P3	
1V2	R	. 6	0	0	5	P5, P3	250 Min
1W4	R	1. 4	67	46	22	P1	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
3AF4	R	3	45	42	9	P2	
3AL5	R	3	0	49	21	P5, P3	D. T.
3AT2	R	3	0	33	24	P6, P3	Cap = P
3AU6	R	3	21	42	11	P2	
3AV6	G	3	10	0	10	P1	
3AV6	B	3	10	40	10	P5, P3	D. T.
3AW2	R	3	0	43	24	P6, P3	Cap = P
3AW3	B	3	0	28	23	P6, P3	Cap = P
3B2	G	3	0	18	23	P6, P3	* Cap = P
3B5	R	3	77	60	23	P1	*
3BA6	R	3	25	43	11	P2	
3BC5	R	3	18	82	11	P2	
3BE6	R	3	21	78	11	P2	
3BN4	G	3	20	69	8	P2	
3BN4A	G	3	21	78	8	P2	
3BN6	R	3	0	20	38	P5, P3	
3BU8	R	3	17	61	19	P2	D. T.
3BX6	R	3	17	85	26	P2	
3BY6	G	3	36	0	11	P2	
3BY7	R	3	30	51	26	P2	
3BZ6	R	3	15	85	11	P2	
3C4	R	3	57	73	22	P1	♦
3CA3	B	3	0	36	23	P6, P3	Cap = P
3CB6	R	3	15	83	11	P2	
3CE5	R	3	18	82	11	P2	
3CF6	R	3	18	80	11	P2	
3CS6	G	3	43	67	11	P1	
3CY5	R	3	31	0	11	P2	
3DG4	R	3	0	63	13	P3	D. T.
3DK6	R	3	18	86	11	P2	
3DT6	R	3	33	40	11	P1	
3DX4	R	3	29	66	9	P2	
3DZ4	R	3	40	40	9	P2	
3E5	R	3	60	76	22	P1	♦
3EA5	R	3	14	81	11	P2	
3EH7	R	3	28	87	26	P2	
3EJ7	R	3	17	92	26	P2	
3ER5	R	3	13	81	8	P2	
3ES5	R	3	13	72	8	P2	
3EV5	R	3	28	62	11	P2	
3FH5	R	3	16	78	8	P2	
3FQ5	R	3	16	83	8	P2	
3FQ5A	R	3	16	85	8	P2	
3FS5	R	3	10	74	11	P2	

1X2B	R	1.1	0	34	6	P6, P3	Cap = P	3FY5	R	3	15	84	8	P2	
2AF4	R	2.5	45	42	9	P2		3GK5	R	3	14	90	8	P2	
2AH2	R	2.5	0	34	24	P6, P3	Cap = P	3GS8	R	3	32	60	19	P1	D. T.
2AS2	R	2.5	0	34	24	P6, P3	Cap = P	3GU5	R	3	25	82	11	P1	
2AV2	R	2	0	0	5	P5, P3	250 Min	3GW5	R	3	17	88	9	P2	
2AZ2	R	2	0	38	6	P6, P3	Cap = P	3HA5	R	3	19	82	11	P2	
2B3	B	2	0	34	23	P6, P3	Cap = P	3HK5	R	3	23	58	11	P2	
2B-H5	R	2	17	89	39	P2		3HM5	R	3	19	82	11	P2	
2BJ2	R	2	0	40	35	P3	Cap = P. Short normal Pos. 2 & 3	3HM6	R	3	15	90	26	P2	
								3HQ5	R	3	14	90	11	P2	
2BN4	G	2.5	20	69	8	P2		3HS8	R	3	22	42	19	P2	D. T.
2BN4A	G	2.5	21	78	8	P2		3HT6	R	3	14	90	26	P2	
2C22	R	6.3	24	88	23	P1	Cap over key = P Opposite cap = G	3JC6	R	3	15	90	26	P2	
								3JD6	R	3	14	90	26	P2	
2C50	R	12.6	33	0	30	P2	D. T.	3KF8	R	3	33	46	19	P1	D. T.
2C52	R	12.6	26	0	30	P1	D. T. 160 Min	3Q4	G	3	53	82	22	P1	♦
2CW4	R	2	17	84	39	P2		3Q5	R	3	48	87	23	P1	♦
2CY5	R	2.5	31	0	11	P2		3S4	G	3	73	70	22	P1	♦
2DS4	R	2	17	77	39	P2		3V4	R	3	53	82	22	P1	♦
2DV4	R	2	32	41	29	P2		4AU6	R	4.3	21	42	11	P2	
2DX4	R	2.5	29	66	9	P2		4AV6	G	4.3	10	0	10	P1	
2DZ4	R	2.5	40	40	9	P2		4AV6	B	4.3	10	40	10	P5, P3	D. T.
2E30	R	6.3	37	59	11	P2	*	4BA6	R	4.3	25	43	11	P2	
2EA5	R	2.5	14	81	11	P2		4BC5	R	4.3	18	82	11	P2	
2EN5	R	2	0	58	21	P3		4BC8	R	4.3	20	70	27	P2	D. T.
2EN5	B	2	0	58	20	P3		4BE6	R	4.3	21	78	11	P2	
2ER5	R	2.5	13	81	8	P2		4BL8	R	4.3	20	78	28	P6, P2	
2ES5	R	2.5	13	72	8	P2		4BL8	B	4.3	25	52	28	P2	
2EV5	R	2.5	28	62	11	P2		4BN4	G	4.3	20	69	8	P2	
2FH5	R	2.5	16	78	8	P2		4BN6	R	4.3	0	20	38	P5, P3	
2FQ5	R	2.5	16	83	8	P2		4BQ7A	R	4.3	16	76	27	P2	D. T.
2FQ5A	R	2.5	16	85	8	P2		4BS8	R	4.3	20	77	27	P2	D. T.
2FS5	R	2.5	10	74	11	P2		4BU8	R	4.3	17	61	19	P2	D. T.
2FV6	R	2.5	28	55	11	P2		4BX8	R	4.3	38	85	27	P1	D. T.
2FY5	R	2.5	15	84	8	P2		4BZ6	R	4.3	15	85	11	P2	
2GK5	R	2.5	14	90	8	P2		4BZ7	R	4.3	20	77	27	P2	D. T.
2GU5	R	2.5	25	82	11	P1		4BZ8	R	4.3	16	84	27	P2	D. T.
2GW5	R	2.5	17	88	9	P2		4CB6	R	4.3	15	83	11	P2	
2HA5	R	2.5	19	82	11	P2		4CE5	R	4.3	18	82	11	P2	
2HK5	R	2.5	23	58	11	P2		4CM4	R	4.3	12	90	27	P6, P1	
2HM5	R	2.5	19	82	11	P2		4CS6	G	4.3	43	67	11	P1	
2HQ5	R	2	14	90	11	P2		4CY5	R	4.3	31	0	11	P2	
2N-H11	R	2	17	77	39	P2		4DE6	R	4.3	22	74	11	P2	
2N-H12	R	2	32	41	29	P2		4DK6	R	4.3	18	86	11	P2	
2T4	R	2.5	41	40	9	P2		4DT6	R	4.3	33	40	11	P1	
2V3	B	2.5	0	34	23	P6, P3	Cap = P	4EH7	R	4.3	28	87	26	P2	
3A2	R	3	0	37	6	P6, P3	Cap = P	4EJ7	R	4.3	17	92	26	P2	
3A3	B	3	0	28	23	P6, P3	Cap = P. For GE tubes use SA-10 Adapter	4ER5	R	3.0	13	81	8	P2	
								4ES8	R	4.3	25	80	27	P2	D. T.

HICKOK MODEL 799 TUBE CHART

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
4EW6	R	4.3	13	91	11	P2	
4FY5	R	4.3	15	84	8	P2	
4GK5	R	4.3	14	90	8	P2	
4GM6	R	4.3	17	87	11	P2	
4GS7	G	4.3	15	85	27	P2	
4GS7	G	4.3	35	42	27	P6, P2	
4GS8	R	4.3	32	60	19	P1	D. T.
4GW5	R	4.3	17	88	9	P2	
4GZ5	R	4.3	22	87	20	P2	
4HA5	R	4.3	19	82	11	P2	
4HA7	B	4.3	15	10	31	P6, P2	
4HA7	R	4.3	15	10	14	P1	OK over 350. Short normal Pos. 1
4HC7	B	4.3	10	44	31	P6, P2	
4HC7	R	4.3	6	5	14	P1	Short normal Pos. 1
4HG8	R	4.3	0	45	16	P5, P3	
4HG8	G	4.3	16	89	19	P2	
4HK5	R	4.3	23	58	11	P2	
4HM6	R	4.3	15	90	26	P2	
4HQ5	R	4.3	14	90	11	P2	
4HS8	R	4.3	22	42	19	P2	D. T.
4HT6	R	4.3	14	90	26	P2	
4JC6	R	4.3	15	90	26	P2	
4JD6	R	4.3	14	90	26	P2	
4JK6	R	3	20	87	11	P2	
4JL6	R	4.3	25	90	11	P2	
4KF8	R	4.3	33	46	19	P1	D. T.
4KN8	R	4.3	21	88	27	P2	D. T.
4M-P26	R	4.3	54	40	11	P2	
4R-HH8	R	4.3	21	88	27	P2	D. T.
5AM8	R	5	15	83	4	P2	
5AM8	R	5	15	58	4	P6, P5, P3	
5AN8	R	5	21	83	17	P2	
5AN8	R	5	23	40	27	P6, P2	
5AQ5	G	5	30	44	11	P2	
5AR4	R	5	0	63	1	P3	D. T.
5AS4A	R	5	0	63	1	P3	D. T.
5AS8	G	5	21	71	4	P2	
5AS8	G	5	21	88	4	P6, P5, P3	
5AT8	G	5	18	55	27	P2	
5AT8	G	5	10	55	27	P6, P2	
5AU4	R	5	0	63	1	P3	D. T.
5AV8	R	5	14	45	28	P5, P3	
5AV8	R	5	14	60	6	P2	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
5GX6	R	5	31	70	11	P1	
5HA7	B	5	15	10	31	P6, P2	
5HA7	R	5	15	10	14	P1	OK over 350 Short normal Pos. 1
5HC7	B	5	10	44	31	P6, P2	
5HC7	R	5	6	5	14	P1	Short normal Pos. 1
5HG8	R	5	0	45	16	P5, P3	
5HG8	G	5	16	89	19	P2	
5J6	G	5	17	62	21	P2	D. T.
5JK6	R	4.3	20	87	11	P2	
5JL6	R	5	25	90	11	P2	
5KD8	R	5	19	58	28	P6, P2	
5KD8	B	5	15	80	28	P2	
5KE8	R	5	10	87	28	P6, P2	
5KE8	B	5	10	76	28	P2	
5KZ8	G	5	17	82	36	P6, P2	
5KZ8	G	5	14	82	36	P2	
5LJ8	G	5	10	90	27	P2	
5LJ8	G	5	22	41	27	P6, P2	
5MB8	G	5	14	83	27	P2	
5MB8	G	5	14	65	27	P6, P2	
5M-HH3	G	5	18	78	21	P2	D. T.
5M-K9	G	5	0	45	8	P5, P3	
5R4	R	5	0	63	1	P3	D. T.
5T4	R	5	0	63	1	P3	D. T.
5T8	G	5	10	0	17	P6, P1	350 Min
5T8	B	5	10	49	17	P5, P3	D. T.
5T8	R	5	10	49	17	P6, P5, P3	Short normal Pos. 1
5U4	R	5	0	63	1	P3	D. T.
5U8	R	5	20	57	28	P6, P2	
5U8	B	5	14	78	28	P2	
5U9	R	6.3	23	81	7	P2	
5U9	R	6.3	28	47	7	P6, P2	
5V3	R	5	0	63	1	P3	D. T.
5V4	R	5	0	63	1	P3	D. T.
5V6	R	5	16	54	23	P2	
5W4	R	5	0	63	1	P3	D. T.
5X4	B	5	0	63	30	P3	D. T.
5X8	G	5	16	67	19	P2	
5X8	G	5	16	69	19	P6, P2	
5X9	R	6.3	20	90	7	P2	
5X9	R	6.3	10	47	7	P6, P2	
5Y3	R	5	0	63	1	P3	D. T.
5Y4	B	5	0	63	30	P3	D. T.

5AW4	R	5	0	63	1	P3	D. T.
5AX4	R	5	0	63	1	P3	D. T.
5B8	R	5	20	50	34	P6, P2	
5B8	G	5	0	58	4	P6, P3	
5BC3	R	5	0	63	25	P3	D. T.
5BE8	G	5	20	60	27	P2	
5BE8	G	5	14	82	27	P6, P2	
5BK7	R	5	13	85	27	P2	D. T.
5BQ7A	R	5	16	76	27	P2	D. T.
5BR8	G	5	20	57	27	P6, P2	
5BR8	G	5	14	78	27	P2	
5BS8	R	5	20	77	27	P2	D. T.
5BT8	R	5	16	75	17	P2	
5BT8	R	5	16	44	17	P6, P5, P3	
5BT8	B	5	16	44	17	P6, P5, P3	
5BW8	G	5	0	45	5	P5, P3	Short normal Pos. 2
5BW8	R	5	0	45	5	P5, P3	
5BW8	B	5	0	45	19	P6, P5, P3	Short normal Pos. 2
5BZ7	R	5	20	77	27	P2	D. T.
5CG8	G	5	16	77	27	P2	
5CG8	G	5	19	66	27	P6, P2	
5CL8	G	5	18	75	27	P2	
5CL8	G	5	18	80	27	P6, P2	
5CM6	R	5	20	55	5	P2	
5CM8	G	5	18	78	36	P6, P2	
5CM8	G	5	10	28	36	P1	
5CQ8	R	5	18	75	28	P6, P2	
5CQ8	B	5	18	80	28	P2	
5CZ5	R	5	26	68	5	P2	
5DH8	G	5	19	85	27	P2	
5DH8	G	5	10	71	27	P6, P2	
5EA8	R	5	20	68	28	P6, P2	
5EA8	B	5	13	83	28	P2	
5EH8	G	5	20	69	19	P2	
5EH8	G	5	18	74	19	P6, P2	
5ES8	R	5	25	80	27	P2	D. T.
5EU8	R	5	0	45	19	P5, P3	Short normal Pos. 1
5EU8	G	5	0	45	36	P5, P3	
5EW6	R	5	13	91	11	P2	
5FG7	G	5	18	76	27	P2	
5FG7	G	5	18	70	27	P6, P2	
5FV8	G	5	19	73	27	P2	
5FV8	G	5	16	82	27	P6, P2	
5GH8	R	5	17	82	28	P6, P2	
5GH8	B	5	14	84	28	P2	
5GM6	R	5	17	87	11	P2	
5GS7	G	5	15	85	27	P2	
5GS7	G	5	35	42	27	P6, P2	

5Z4	R	5	0	63	1	P3	D. T.
6A5	R	6.3	58	57	23	P2	*
6A8	R	6.3	54	69	23	P1	Cap = G
6AB4	G	6.3	18	45	20	P2	
6AB7	G	6.3	0	44	23	P5, P3	
6AB8	B	6.3	29	80	17	P6, P1	
6AB8	B	6.3	0	45	34	P6, P5, P3	
6AC5	R	6.3	0	0	23	P1	300 Min
6AC7	G	6.3	0	44	23	P5, P3	
6AD10	R	6.3	21	76	32	P2	
6AD10	R	6.3	22	36	32	P6, P2	
6AE5	R	6.3	77	46	23	P1	
6AF3	G	6.3	0	63	17	P3	Cap = K
6AF4	R	6.3	45	42	9	P2	
6AF5	R	6.3	52	77	23	P1	
6AF11	G	6.3	23	88	31	P6, P2	Short normal Pos. 1
6AF11	R	6.3	10	68	31	P6, P2	Permissible short in Pos. 1
6AF11	R	6.3	11	52	31	P2	
6AG5	R	6.3	20	53	11	P2	
6AG7	G	6.3	0	45	23	P5, P3	
6AG11	R	6.3	15	70	32	P2	
6AG11	G	6.3	15	70	24	P2	Short normal Pos. 1
6AG11	B	6.3	0	45	31	P6, P5, P3	Short normal Pos. 2
6AG11	G	6.3	0	45	14	P5, P3	Jumper P to G Short normal Pos. 1
6AH4	R	6.3	0	45	12	P5, P3	
6AH6	R	6.3	20	83	11	P2	
6AJ5	G	6.3	0	45	20	P5, P3	
6AJ7	G	6.3	0	44	23	P5, P3	
6AK5	R	6.3	27	75	11	P2	
6AK6	R	6.3	40	85	11	P1	
6AK7	G	6.3	0	45	23	P5, P3	
6AK8	G	6.3	20	5	17	P6, P1	
6AK8	B	6.3	20	40	17	P5, P3	
6AK8	B	6.3	20	49	17	P6, P5, P3	
6AK8	R	6.3	20	49	17	P6, P5, P3	Short normal Pos. 1
6AL3	G	6.3	0	63	19	P3	Cap = K Short normal Pos. 2
6AL5	R	6.3	0	49	21	P5, P3	D. T.
6AL11	R	6.3	19	83	32	P2	
6AL11	R	6.3	32	69	32	P6, P1	
6AM5	B	6.3	31	40	11	P2	
6AM6	B	6.3	10	82	9	P2	
6AM8A	R	6.3	15	83	4	P2	
6AM8A	R	6.3	15	58	4	P6, P5, P3	
6AN4	R	6.3	10	85	9	P2	
6AN5	R	6.3	38	78	11	P2	

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Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
6AN8	R	6.3	21	83	17	P2	
6AN8	R	6.3	23	40	27	P6, P2	
6AQ4	G	6.3	10	80	10	P2	
6AQ5A	G	6.3	30	44	11	P2	
6AQ6	G	6.3	18	0	10	P1	
6AQ6	B	6.3	18	40	10	P5, P3	D. T.
6AQ7	R	6.3	24	0	30	P1	350 Min
6AQ7	R	6.3	0	49	1	P5, P3	
6AQ8	R	6.3	10	77	27	P2	D. T.
6AR5	R	6.3	22	90	11	P1	
6AR8	R	6.3	20	33	34	P2	D. T.
6AR11	G	6.3	28	87	32	P1	D. T.
6AS5	R	6.3	48	46	20	P2	
6AS6	R	6.3	28	58	11	P2	
6AS7	R	6.3	95	91	30	P1	D. T.
6AS8	G	6.3	21	71	4	P2	
6AS8	G	6.3	21	58	4	P6, P5, P3	
6AS11	G	6.3	25	83	31	P6, P2	Short Normal Pos. 1
6AS11	R	6.3	10	65	31	P6, P2	Permissible short in Pos. 1
6AS11	R	6.3	11	52	31	P2	
6AT6	G	6.3	18	0	10	P1	
6AT6	B	6.3	18	40	10	P5, P3	D. T.
6AT8	G	6.3	18	55	27	P2	
6AT8	G	6.3	10	55	27	P6, P2	
6AU4	G	6.3	0	63	1	P3	
6AU5	B	6.3	67	83	12	P1	
6AU6A	R	6.3	21	42	11	P2	
6AU7	R	6.3	21	89	27	P1	* D. T.
6AU8	G	6.3	24	78	19	P2	
6AU8	G	6.3	18	45	19	P6, P2	
6AU8A	G	6.3	24	75	19	P2	
6AU8A	G	6.3	18	45	19	P6, P2	
6AV5	B	6.3	67	88	12	P1	
6AV6	G	6.3	10	0	10	P1	
6AV6	B	6.3	10	40	10	P5, P3	D. T.
6AV11	B	6.3	16	10	31	P6, P2	
6AV11	R	6.3	16	10	14	P2	Short normal Pos. 1
6AV11	B	6.3	0	45	24	P5, P3	
6AW8	G	6.3	26	83	19	P2	
6AW8	G	6.3	15	40	19	P6, P2	
6AW8A	G	6.3	22	87	19	P2	
6AW8A	G	6.3	14	45	19	P6, P2	
6AX3	R	6.3	0	63	31	P3	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
6BG6	G	6.3	23	72	12	P2	Cap = P
6BH3	R	6.3	0	63	3	P3	
6BH6	R	6.3	19	0	11	P2	
6BH8	G	6.3	24	78	19	P2	
6BH8	G	6.3	35	88	19	P6, P1	
6BJ3	R	6.3	0	63	31	P3	
6BJ6	R	6.3	32	83	11	P1	
6BJ7	G	6.3	0	45	18	P5, P3	
6BJ7	B	6.3	0	45	17	P5, P3	
6BJ7	R	6.3	0	45	17	P6, P5, P3	
6BJ8	R	6.3	25	33	36	P2	
6BJ8	R	6.3	25	55	36	P6, P5, P3	
6BJ8	B	6.3	25	55	36	P5, P3	
6BK4	B	6.3	0	47	23	P6, P5, P3	Cap = P
6BK5	R	6.3	0	63	19	Make Leakage Test Only	
6BK5	R	6.3	0	63	19	P6, P3	Short normal Pos. 1
6BK6	G	6.3	10	0	10	P1	
6BK6	B	6.3	10	50	10	P5, P3	D. T.
6BK7	R	6.3	21	89	27	P1	D. T.
6BK11	B	6.3	10	38	31	P6, P1	
6BK11	R	6.3	0	0	14	P1	Short normal Pos. 1
6BK11	B	6.3	0	45	24	P5, P3	
6BL7	R	6.3	15	79	30	P2	D. T.
6BL8	R	6.3	20	78	28	P6, P2	
6BL8	B	6.3	25	52	28	P2	
6BM8	B	6.3	0	63	28	P3	Short normal Pos. 2
6BM8	B	6.3	0	63	19	P6, P3	
6BN4	G	6.3	20	69	8	P2	
6BN4A	G	6.3	21	78	8	P2	
6BN6	R	6.3	0	20	38	P5, P3	
6BN8	R	6.3	15	0	36	P2	
6BN8	R	6.3	15	55	36	P6, P5, P3	
6BN8	B	6.3	15	55	36	P5, P3	
6BQ5	G	6.3	20	88	26	P2	
6BQ6GTA	R	6.3	60	50	23	P2	Cap = P
6BQ6GTB	R	6.3	60	60	23	P2	Cap = P
6BQ7A	R	6.3	16	76	27	P2	D. T.
6BR3	G	6.3	0	63	17	P3	Cap = K
6BR7	R	6.3	32	80	26	P1	
6BR8	G	6.3	20	57	27	P6, P2	
6BR8	G	6.3	14	78	27	P2	
6BS3	R	6.3	0	63	3	P3	
6BS7	R	6.3	32	80	26	P1	Cap = G
6BS8	R	6.3	20	77	27	P2	D. T.

6AX4	G	6.3	0	63	1	P3	
6AX5	R	6.3	0	63	12	P3	
6AX5	R	6.3	0	63	23	P3	
6AX7	R	6.3	10	0	27	P1	* D. T.
6AX8	R	6.3	25	57	28	P6, P2	
6AX8	B	6.3	15	82	28	P2	
6AY3	R	6.3	0	63	3	P3	
6AY11	R	6.3	14	5	32	P1	
6AY11	G	6.3	14	5	24	P1	Short normal Pos. 1
6AY11	B	6.3	0	45	31	P6, P5, P3	Short normal Pos. 2
6AY11	G	6.3	0	45	14	P5, P3	Jumper P to G Short normal Pos. 1
6AZ8	B	6.3	0	45	16	P5, P3	
6AZ8	G	6.3	25	45	5	P2	Short normal Pos. 1
6B4	R	6.3	58	57	23	P2	↓
6B10	G	6.3	23	0	14	P2	D. T.
6B10	B	6.3	23	49	14	P5, P3	D. T.
6BA3	R	6.3	0	63	3	P3	
6BA6	R	6.3	25	43	11	P2	
6BA7	G	6.3	0	60	27	P6, P3	
6BA8	G	6.3	26	83	19	P2	
6BA8	G	6.3	35	87	19	P6, P1	
6BA11	R	6.3	32	79	33	P1	
6BA11	R	6.3	35	81	33	P6, P1	
6BC4	G	6.3	0	60	19	P6, P3	Short normal Pos. 1
6BC5	R	6.3	18	82	11	P2	
6BC7	G	6.3	0	45	18	P5, P3	
6BC7	B	6.3	0	45	17	P5, P3	
6BC7	R	6.3	0	45	17	P6, P5, P3	
6BC8	R	6.3	20	70	27	P2	D. T.
6BD4A	B	6.3	0	34	23	P6, P5, P3	Cap = P
6BD5	B	6.3	53	83	12	P1	
6BD6	R	6.3	36	86	11	P1	
6BD7A	B	6.3	22	20	18	P6, P1	
6BD7A	B	6.3	0	40	34	P5, P3	
6BD7A	B	6.3	0	40	16	P5, P3	
6BD11	G	6.3	22	87	31	P6, P2	Short normal Pos. 1
6BD11	R	6.3	14	68	31	P6, P2	Permissible short in Pos. 1
6BD11	R	6.3	11	52	31	P2	
6BE3	R	6.3	0	63	31	P3	
6BE6	R	6.3	21	78	11	P2	
6BE8	G	6.3	20	60	27	P2	
6BE8	G	6.3	14	82	27	P6, P2	
6BF5	G	6.3	47	65	11	P2	
6BF6	G	6.3	23	86	10	P1	
6BF6	B	6.3	23	40	10	P5, P3	D. T.
6BF11	R	6.3	42	73	32	P2	
6BF11	R	6.3	32	78	32	P6, P1	
6BT6	G	6.3	18	0	10	P1	
6BT6	B	6.3	18	50	10	P5, P3	D. T.
6BT8	R	6.3	16	75	17	P2	
6BT8	R	6.3	16	44	17	P6, P5, P3	
6BT8	B	6.3	16	44	17	P6, P5, P3	Short normal Pos. 2
6BU6	G	6.3	23	86	10	P1	
6BU6	B	6.3	23	50	10	P5, P3	D. T.
6BU8	R	6.3	17	61	19	P2	D. T.
6BV8	R	6.3	20	60	6	P2	
6BV8	R	6.3	0	45	27	P5, P3	Short normal Pos. 2
6BV8	R	6.3	0	45	5	P5, P3	Short normal Pos. 1
6BW4	R	6.3	0	45	16	P6, P5, P3	
6BW4	R	6.3	0	45	26	P5, P3	
6BW8	G	6.3	0	45	5	P5, P3	Short normal Pos. 2
6BW8	R	6.3	0	45	5	P5, P3	
6BW8	B	6.3	0	45	19	P6, P5, P3	Short normal Pos. 2
6BX6	R	6.3	17	85	26	P2	
6BX7	R	6.3	42	70	30	P2	D. T.
6BX8	R	6.3	38	85	27	P1	D. T.
6BY5	R	6.3	0	45	23	P5, P3	
6BY5	R	6.3	0	45	12	P5, P3	
6BY6	G	6.3	36	0	11	P2	
6BY7	R	6.3	30	51	26	P2	
6BY8	G	6.3	15	73	6	P2	
6BY8	R	6.3	0	45	19	P5, P3	
6BZ6	R	6.3	15	85	11	P2	
6BZ7	R	6.3	20	77	27	P2	D. T.
6BZ8	R	6.3	16	84	27	P2	D. T.
6C4	G	6.3	17	0	20	P2	
6C5	R	6.3	22	86	23	P1	
6C9	R	6.3	27	75	37	P2	D. T.
6C10	B	6.3	0	10	31	P6, P1	
6C10	R	6.3	0	10	14	P1	Short normal Pos. 1
6C10	B	6.3	0	45	24	P5, P3	
6CA4	R	6.3	0	63	27	P6, P3	
6CA4	G	6.3	0	63	27	P3	
6CA5	R	6.3	35	83	20	P2	
6CA7	R	6.3	33	86	23	P2	
6CB5	B	6.3	0	63	12	P3	Cap = P. Short normal Pos. 1
6CB6	R	6.3	15	83	11	P2	
6CD3	R	6.3	0	60	31	P3	
6CD6	G	6.3	76	44	12	P2	Cap = P
6CE3	R	6.3	0	63	31	P3	
6CE5	R	6.3	18	82	11	P2	
6CF6	R	6.3	18	80	11	P2	
6CG3	R	6.3	0	60	31	P3	
6CG7	R	6.3	25	90	27	P1	D. T.

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Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
6CG8A	G	6.3	16	77	27	P2	
6CG8A	G	6.3	19	66	27	P6, P2	
6CH7	R	6.3	20	76	27	P2	D. T.
6CH8	R	6.3	20	78	19	P6, P2	
6CH8	G	6.3	0	45	19	P5, P3	
6CJ3	R	6.3	0	63	3	P3	
6CK3	R	6.3	0	63	3	P3	
6CK4	R	6.3	0	50	12	P6, P3	
6CL5	B	6.3	0	63	12	P3	Cap = P. Short normal Pos. 1
6CL6	G	6.3	24	88	5	P2	
6CL8	G	6.3	18	75	27	P2	
6CL8	G	6.3	18	80	27	P6, P2	
6CM4	R	6.3	12	90	27	P6, P2	
6CM6	R	6.3	20	55	5	P2	
6CM7	R	6.3	30	85	16	P1	
6CM7	R	6.3	20	73	16	P6, P2	
6CM8	G	6.3	18	78	36	P6, P2	
6CM8	G	6.3	10	28	36	P1	
6CN6	R	6.3	23	88	23	P2	Cap = P
6CN7	B	6.3	0	45	5	P5, P3	*
6CN7	R	6.3	0	45	27	P6, P5, P3	
6CN7	R	6.3	0	0	19	P1	*
6CQ4	G	6.3	0	63	1	P3	
6CQ6	B	6.3	10	10	9	P2	
6CQ8	R	6.3	18	75	28	P6, P2	
6CQ8	B	6.3	18	80	28	P2	
6CR6	R	6.3	0	45	21	P5, P3	
6CR6	B	6.3	0	45	20	P5, P3	Jumper K to G. Short normal Pos. 2
6CS5	R	6.3	48	71	5	P2	
6CS6	G	6.3	43	67	11	P1	
6CS7	R	6.3	27	86	18	P1	
6CS7	R	6.3	33	44	18	P6, P2	
6CU5	R	6.3	44	73	20	P2	
6CU6	R	6.3	60	60	23	P2	Cap = P
6CU8	R	6.3	20	78	19	P6, P2	
6CU8	G	6.3	0	45	19	P5, P3	
6CW4	R	6.3	17	84	39	P2	
6CW5	G	6.3	30	84	26	P2	
6CW7	R	6.3	28	62	6	P2	
6CW7	B	6.3	0	45	4	P5, P3	
6CX8	G	6.3	30	80	19	P2	
6CX8	G	6.3	15	45	19	P6, P2	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
6DT8	R	6.3	10	79	27	P2	D. T.
6DV4	R	6.3	32	41	29	P2	
6DW4	R	6.3	0	63	3	P3	
6DW5	R	6.3	65	45	5	P2	
6DX4	R	6.3	29	66	9	P2	
6DX8	G	6.3	15	40	27	P6, P2	
6DX8	G	6.3	15	88	17	P2	
6DZ4	R	6.3	40	40	9	P2	
6DZ8	B	6.3	0	60	28	P3	Short Normal Pos. 2
6DZ8	B	6.3	0	60	19	P 6, P3	
6EA5	R	6.3	14	81	11	P 2	
6EA7	R	6.3	25	0	30	P 1	
6EA7	R	6.3	61	55	30	P6, P2	
6EA8	R	6.3	20	68	28	P6, P2	
6EA8	B	6.3	13	83	28	P2	
6EB5	R	6.3	0	49	21	P5, P3	D. T.
6EB8	G	6.3	20	90	19	P2	
6EB8	G	6.3	10	47	19	P6, P1	
6EH5	R	6.3	30	89	20	P2	
6EH7	R	6.3	28	87	26	P2	
6EH8	G	6.3	20	69	19	P2	
6EH8	G	6.3	18	74	19	P6, P2	
6EJ7	R	6.3	17	92	26	P2	
6EM5	R	6.3	33	72	5	P2	
6EM7	R	6.3	20	20	30	P1	
6EM7	R	6.3	60	70	30	P6, P2	
6EQ7	G	6.3	32	80	36	P6, P1	
6EQ7	G	6.3	0	43	26	P5, P3	
6ER5	R	6.3	13	81	8	P2	
6ES5	R	6.3	13	72	8	P2	
6ES6	G	6.3	0	48	20	P5, P3	
6ES8	R	6.3	25	80	27	P2	D. T.
6ET6	G	6.3	0	47	20	P5, P3	
6ET7	G	6.3	20	90	19	P2	
6ET7	G	6.3	20	40	19	P6, P5, P3	
6ET7	R	6.3	20	40	19	P6, P5, P3	
6EU7	R	6.3	10	0	35	P1	D. T.
6EU8	R	6.3	0	45	19	P5, P3	Short normal Pos. 1
6EU8	G	6.3	0	45	36	P5, P3	
6EV5	R	6.3	28	62	11	P2	
6EV7	R	6.3	10	58	27	P2	D. T.
6EW6	R	6.3	13	91	11	P2	
6EW7	R	6.3	33	85	18	P1	
6EW7	R	6.3	56	72	18	P6, P2	

6CY5	R	6.3	31	0	11	P2	
6CY7	R	6.3	19	5	18	P1	
6CY7	R	6.3	61	44	18	P6, P2	
6CZ5	R	6.3	26	68	5	P2	
6D8	R	6.3	54	69	23	P1	Cap = G
6D10	B	6.3	15	46	31	P6, P2	
6D10	R	6.3	15	46	14	P2	Short normal Pos. 1
6D10	B	6.3	0	46	24	P5, P3	
6DA4	G	6.3	0	63	1	P3	
6DA6	R	6.3	29	27	26	P2	
6DA7	R	6.3	31	87	18	P1	
6DA7	R	6.3	58	52	18	P6, P2	
6DB5	R	6.3	48	71	5	P2	
6DB6	R	6.3	19	48	11	P2	
6DC6	R	6.3	23	55	11	P2	
6DC8	B	6.3	36	0	28	P2	250 Min
6DC8	G	6.3	0	45	28	P5, P3	
6DC8	G	6.3	0	45	27	P5, P3	
6DE4	G	6.3	0	63	1	P3	
6DE6	R	6.3	22	74	11	P2	
6DE7	R	6.3	33	85	18	P1	
6DE7	R	6.3	59	66	18	P6, P2	
6DG6	R	6.3	46	72	23	P2	
6DG7	B	6.3	25	50	26	P2	
6DJ8	R	6.3	24	86	27	P2	D. T.
6DK6	R	6.3	18	86	11	P2	
6DL5	G	6.3	26	62	11	P2	
6DM4	G	6.3	0	63	1	P3	
6DN6	G	6.3	65	68	12	P2	Cap = P
6DN7	R	6.3	30	85	30	P1	
6DN7	R	6.3	30	83	30	P6, P2	
6DQ4	G	6.3	0	63	1	P3	
6DQ5	B	6.3	86	47	12	P2	Cap = P
6DQ6	R	6.3	59	60	23	P2	Cap = P
6DQ6A	R	6.3	59	67	23	P2	Cap = P
6DQ6B	R	6.3	59	73	23	P2	Cap = P
6DR4	G	6.3	10	0	20	P1	
6DR7	R	6.3	20	20	18	P1	
6DR7	R	6.3	59	66	18	P6, P2	
6DR8	G	6.3	0	45	27	P6, P5, P3	
6DR8	B	6.3	0	40	34	P5, P3	
6DR8	G	6.3	0	40	36	P6, P5, P3	
6DS4	R	6.3	17	77	39	P2	
6DS5	G	6.3	29	75	11	P2	
6DS8	G	6.3	0	45	27	P6, P5, P3	
6DS8	G	6.3	0	45	17	P6, P5, P3	
6DT5	R	6.3	36	74	5	P2	
6DT6	R	6.3	33	40	11	P1	
6EX6	G	6.3	60	77	12	P2	Cap = P
6EY6	R	6.3	24	67	23	P2	
6EZ5	R	6.3	30	64	23	P2	
6EZ8	B	6.3	0	85	19	P2	♦
6EZ8	R	6.3	0	88	27	P2	♦
6EZ8	R	6.3	15	47	6	P2	♦
6F5	R	6.3	5	0	23	P1	Cap = G
6F6	R	6.3	25	87	23	P1	
6F19	R	6.3	30	51	26	P2	
6FA7	G	6.3	32	35	19	P1	
6FA7	G	6.3	32	40	19	P6, P5, P3	
6FD6	G	6.3	0	46	20	P5, P3	
6FD7	R	6.3	20	20	18	P1	
6FD7	R	6.3	59	60	18	P6, P2	
6FE5	R	6.3	54	60	23	P2	
6FG5	R	6.3	10	55	11	P1	
6FG7	G	6.3	18	76	27	P2	
6FG7	G	6.3	18	70	27	P6, P2	
6FH5	R	6.3	16	78	8	P2	
6FH6	R	6.3	60	64	23	P2	Cap = P
6FH8	R	6.3	32	85	34	P2	*
6FH8	G	6.3	45	10	34	P1	* D. T.
6FJ7	R	6.3	19	89	2	P1	
6FJ7	R	6.3	19	84	2	P6, P2	
6FM7	R	6.3	14	62	2	P1	
6FM7	R	6.3	62	66	2	P6, P2	
6FM8	G	6.3	0	0	17	P1	
6FM8	B	6.3	0	45	5	P5, P3	Short normal Pos. 2
6FM8	R	6.3	0	45	36	P6, P5, P3	
6FQ5	R	6.3	16	83	8	P2	
6FQ5A	R	6.3	16	85	8	P2	
6FQ7	R	6.3	25	89	27	P1	D. T.
6FR7	R	6.3	20	20	18	P1	
6FR7	R	6.3	60	70	18	P6, P2	
6FS5	R	6.3	10	74	11	P2	
6FV6	R	6.3	28	55	11	P2	
6FV8	G	6.3	19	73	27	P2	
6FV8	G	6.3	16	82	27	P6, P2	
6FW5	B	6.3	73	89	12	P1	
6FW8	R	6.3	24	86	27	P2	D. T.
6FY5	R	6.3	15	84	8	P2	
6FY7	R	6.3	20	20	2	P1	
6FY7	R	6.3	57	68	2	P6, P2	
6FY8	B	6.3	0	58	28	P3	Short normal Pos. 2
6FY8	B	6.3	0	60	19	P6, P3	
6G6	R	6.3	42	81	23	P1	
6G11	R	6.3	52	50	32	P2	
6G11	R	6.3	32	80	32	P6, P1	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
6GB3	R	6.3	40	79	23	P2	Cap = P
6GB5	R	6.3	0	63	36	P6, P3	Cap = P. Use SA-8 Adapter
6GC5	R	6.3	48	71	5	P2	
6GC6	G	6.3	61	68	12	P2	Cap = P
6GD7	G	6.3	10	90	27	P2	
6GD7	G	6.3	10	80	27	P6, P2	
6GE5	R	6.3	62	69	24	P2	
6GF5	R	6.3	70	38	24	P2	
6GF7	R	6.3	22	0	15	P1	
6GF7	R	6.3	61	72	15	P6, P2	
6GH8	R	6.3	17	82	28	P6, P2	
6GH8	B	6.3	14	84	28	P2	
6GJ5	G	6.3	58	75	3	P2	Cap = P
6GJ8	R	6.3	18	82	28	P6, P2	
6GJ8	B	6.3	16	84	28	P2	
6GK5	R	6.3	14	90	8	P2	
6GK6	R	6.3	15	90	26	P2	
6GL7	R	6.3	25	0	30	P1	
6GL7	R	6.3	60	58	30	P6, P2	
6GM5	R	6.3	16	86	5	P2	
6GM6	R	6.3	17	87	11	P2	
6GN8	G	6.3	20	90	19	P2	
6GN8	G	6.3	10	15	19	P6, P1	
6GQ7	G	6.3	0	45	18	P5, P3	
6GQ7	B	6.3	0	45	17	P5, P3	
6GQ7	R	6.3	0	45	17	P6, P5, P3	
6GS8	R	6.3	32	60	19	P1	D. T.
6GT5	G	6.3	58	75	3	P2	
6GU5	R	6.3	25	82	11	P1	
6GU7	R	6.3	30	40	27	P2	D. T.
6GV5	G	6.3	65	59	24	P2	Cap = P
6GV8	G	6.3	47	78	27	P2	
6GV8	R	6.3	17	70	27	P6, P2	
6GW5	R	6.3	17	88	9	P2	
6GW6	R	6.3	59	73	23	P2	Cap = P
6GW8	G	6.3	10	10	17	P6, P1	250 Min
6GW8	B	6.3	0	45	19	P5, P3	Jumper K to G Short normal Pos. 2
6GX6	R	6.3	31	70	11	P1	
6GY5	G	6.3	67	59	24	P2	Cap = P
6GY6	R	6.3	20	60	11	P2	
6GZ5	R	6.3	22	87	20	P2	
6H4	R	6.3	0	45	23	P5, P3	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
6JD6	R	6.3	14	90	26	P2	
6JE6	G	6.3	79	74	3	P2	Cap = P
6JE8	G	6.3	20	88	19	P2	
6JE8	G	6.3	15	45	19	P6, P2	
6JF6	G	6.3	90	82	3	P1	Cap = P
6JG6	B	6.3	90	86	3	P1	
6JH6	R	6.3	17	82	11	P2	
6JH8	R	6.3	20	57	34	P2	D. T.
6JK6	R	6.3	20	87	11	P2	
6JK8	R	6.3	29	87	27	P1	
6JK8	R	6.3	18	84	27	P2	
6JL6	R	6.3	25	90	11	P2	
6JL8	G	6.3	26	86	19	P2	
6JL8	G	6.3	19	44	19	P6, P2	
6JN8	G	6.3	19	81	27	P2	
6JN8	G	6.3	16	82	27	P6, P2	
6JT6	B	6.3	58	75	3	P2	
6JT8	G	6.3	27	89	19	P2	
6JT8	G	6.3	20	20	19	P6, P1	
6JU8	R	6.3	0	49	16	P6, P5, P3	
6JU8	G	6.3	0	49	16	P5, P3	
6JV8	G	6.3	17	87	19	P2	
6JV8	G	6.3	15	40	19	P6, P2	
6JW8	R	6.3	23	39	28	P6, P2	
6JW8	B	6.3	14	39	28	P2	
6JX8	G	6.3	0	45	27	P6, P5, P3	
6JX8	G	6.3	0	45	17	P6, P5, P3	
6JY8	G	6.3	22	87	19	P2	
6JY8	G	6.3	14	86	19	P6, P2	
6JZ8	G	6.3	52	46	2	P6, P2	
6JZ8	G	6.3	32	81	2	P1	
6K5	R	6.3	21	0	23	P1	Cap = G
6K6	R	6.3	30	90	23	P1	
6K7	R	6.3	34	85	23	P1	Cap = G
6K8	R	6.3	0	60	12	P6, P3	Cap = G
6K11	B	6.3	19	10	31	P6, P2	
6K11	R	6.3	0	0	14	P1	Short normal Pos. 1
6K11	B	6.3	0	45	24	P5, P3	
6KA8	G	6.3	20	77	28	P2	
6KA8	B	6.3	15	44	28	P2	
6KD6	G	6.3	78	50	24	P2	Cap = P
6KD8	R	6.3	19	58	28	P6, P2	
6KD8	B	6.3	15	80	28	P2	
6KE8	R	6.3	10	87	28	P6, P2	
6KE8	B	6.3	10	76	28	P2	

6HA5	R	6.3	19	82	11	P2	
6HA6	R	6.3	23	90	26	P2	
6HB5	R	6.3	67	59	24	P2	
6HB6	R	6.3	25	90	26	P2	
6HC8	B	6.3	0	60	28	P3	Short normal Pos. 2
6HC8	B	6.3	0	60	19	P6, P3	
6HD5	G	6.3	67	60	33	P2	
6HE5	B	6.3	32	67	31	P2	
6HF5	B	6.3	90	42	31	P2	
6HF8	G	6.3	22	89	19	P2	
6HF8	G	6.3	15	40	19	P6, P2	
6HG5	G	6.3	30	44	11	P2	
6HG8	R	6.3	0	45	16	P5, P3	
6HG8	G	6.3	16	89	19	P2	
6HJ5	G	6.3	0	63	24	P3	
6HJ8	R	6.3	22	79	4	P2	
6HJ8	R	6.3	22	58	4	P6, P5, P3	
6HK5	R	6.3	23	58	11	P2	
6HL5	G	6.3	39	81	26	P2	
6HL8	R	6.3	17	86	28	P6, P2	
6HL8	B	6.3	14	81	28	P2	
6HM5	R	6.3	19	82	11	P2	
6HM6	R	6.3	15	90	26	P2	
6HQ5	R	6.3	14	89	11	P2	
6HR5	G	6.3	37	30	11	P2	
6HR6	R	6.3	20	70	11	P2	
6HS6	R	6.3	23	71	11	P2	
6HS8	R	6.3	22	42	19	P2	D. T.
6HT6	R	6.3	14	90	26	P2	
6HZ6	R	6.3	31	72	11	P1	
6HZ8	G	6.3	25	89	19	P2	
6HZ8	G	6.3	15	40	19	P6, P2	
6J4	G	6.3	15	89	38	P2	
6J5	R	6.3	25	90	23	P1	
6J6	G	6.3	17	62	21	P2	D. T.
6J7	R	6.3	35	48	23	P1	Cap = G
6J10	R	6.3	19	82	14	P2	
6J10	R	6.3	31	0	14	P6, P1	300 Min
6J11	R	6.3	0	45	33	P6, P5, P3	
6J11	G	6.3	0	45	33	P5, P3	
6JA8	G	6.3	20	88	19	P2	
6JA8	G	6.3	15	40	19	P6, P2	
6JB6	G	6.3	58	75	3	P2	Cap = P
6JB8	R	6.3	34	77	28	P6, P1	
6JB8	B	6.3	17	17	28	P2	
6JC6	R	6.3	15	90	26	P2	
6JC8	R	6.3	17	75	28	P2	
6JC8	G	6.3	15	78	17	P2	
6KF8	R	6.3	33	46	19	P1	D. T.
6KL8	G	6.3	31	55	36	P6, P1	
6KL8	G	6.3	0	40	26	P5, P3	
6KM6	G	6.3	73	40	3	P2	Cap = P
6KM8	R	6.3	10	68	37	P2	
6KM8	R	6.3	10	68	19	P2	
6KM8	R	6.3	0	43	19	P6, P5, P3	
6KN6	G	6.3	63	67	24	P2	Cap = P
6KN8	R	6.3	21	88	27	P2	D. T.
6KR8	G	6.3	27	89	19	P2	
6KR8	G	6.3	14	86	19	P6, P2	
6KS6	R	6.3	0	20	38	P5, P3	
6KS8	G	6.3	30	83	19	P2	
6KS8	G	6.3	15	40	19	P6, P2	
6KT8	G	6.3	17	86	19	P2	
6KT8	G	6.3	14	20	19	P6, P2	
6KU8	G	6.3	27	89	19	P2	
6KU8	G	6.3	27	40	19	P6, P5, P3	
6KU8	R	6.3	27	40	19	P6, P5, P3	
6KV8	G	6.3	22	86	19	P2	
6KV8	G	6.3	15	40	19	P6, P2	
6KY8	R	6.3	20	60	15	P1	
6KY8	R	6.3	52	50	15	P6, P2	
6KZ8	G	6.3	17	82	36	P6, P2	
6KZ8	G	6.3	14	84	36	P2	
6L5	R	6.3	24	86	23	P1	
6L6	R	6.3	25	69	23	P2	
6L7	R	6.3	39	82	23	P1	Cap = G
6LB8	G	6.3	27	89	19	P2	
6LB8	G	6.3	16	49	19	P6, P2	
6LC8	B	6.3	14	50	28	P2	
6LC8	G	6.3	25	45	28	P2	
6LF8	G	6.3	25	86	19	P2	
6LF8	G	6.3	15	40	19	P6, P2	
6LJ8	G	6.3	10	90	27	P2	
6LJ8	G	6.3	22	41	27	P6, P2	
6LM8	R	6.3	24	60	28	P6, P2	
6LM8	B	6.3	14	78	28	P2	
6LN8	R	6.3	20	72	28	P6, P2	
6LN8	B	6.3	30	42	28	P2	
6LQ8	G	6.3	22	90	19	P2	
6LQ8	G	6.3	14	86	19	P6, P2	
6LX8	R	6.3	23	39	28	P6, P2	
6LX8	B	6.3	14	39	28	P2	
6LY8	G	6.3	24	90	19	P2	
6LY8	G	6.3	5	5	19	P6, P1	
6M11	R	6.3	0	45	14	P5, P3	
6M11	G	6.3	0	45	2	P6, P5, P3	Short normal Pos. 1
6M11	B	6.3	15	78	31	P2	

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Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
6M-HH3	G	6.3	18	78	21	P2	D. T.
6N8	B	6.3	19	35	28	P2	
6N8	R	6.3	0	45	26	P5, P3	
6P5	R	6.3	35	78	23	P1	
6Q4	B	6.3	10	85	34	P6, P2	
6Q11	B	6.3	0	48	31	P6, P2	
6Q11	R	6.3	0	0	14	P1	Short normal Pos. 1
6Q11	B	6.3	0	45	24	P5, P3	
6R-HH8	R	6.3	21	88	27	P2	D. T.
6R-K19	G	6.3	0	63	17	P3	Cap = K
6R3	G	6.3	0	63	17	P3	Cap = K
6R4	G	6.3	35	88	28	P1	
6R8	G	6.3	27	85	17	P6, P1	
6R8	B	6.3	27	49	17	P5, P3	D. T.
6R8	R	6.3	27	49	17	P6, P5, P3	Short normal Pos. 1
6S2	R	6.3	0	37	6	P6, P3	Cap = P
6S4A	R	6.3	15	66	5	P2	
6S7	R	6.3	40	80	23	P1	Cap = G
6SA7	B	6.3	37	10	12	P2	350 Min
6SB7	B	6.3	42	30	12	P2	
6SC7	G	6.3	10	0	30	P1	D. T. 350 Min
6SF5	B	6.3	10	0	1	P2	*
6SG7	G	6.3	0	60	12	P3	Short normal Pos. 2
6SH7	G	6.3	0	60	12	P3	Short normal Pos. 2
6SJ7	G	6.3	0	45	23	P5, P3	
6SK7	G	6.3	0	45	23	P5, P3	
6SL7	R	6.3	10	0	30	P1	D. T.
6SN7	R	6.3	31	87	30	P1	D. T.
6SQ7	R	6.3	0	45	30	P6, P5, P3	
6SQ7	G	6.3	0	45	1	P5, P3	
6SR7	R	6.3	0	45	30	P6, P5, P3	
6SR7	G	6.3	0	45	1	P5, P3	
6SS7	G	6.3	0	44	23	P5, P3	
6ST7	R	6.3	0	45	30	P6, P5, P3	
6ST7	G	6.3	0	45	1	P5, P3	
6SU7	R	6.3	10	0	30	P1	D. T. 350 Min
6SZ7	R	6.3	0	45	30	P6, P5, P3	
6SZ7	G	6.3	0	45	1	P5, P3	
6T4	R	6.3	41	40	9	P2	
6T8A	G	6.3	10	0	17	P6, P1	350 Min
6T8A	B	6.3	10	49	17	P5, P3	D. T.
6T8A	R	6.3	10	49	17	P6, P5, P3	Short normal Pos. 1
6T9	R	6.3	15	85	32	P2	
6T9	R	6.3	24	10	33	P1	
8A8	R	10	16	78	28	P6, P2	
8A8	B	10	28	52	28	P2	
8AR11	G	7.5	25	89	32	P1	D. T.
8AU8	G	7.5	24	78	19	P2	
8AU8	G	7.5	18	45	19	P6, P2	
8AU8A	G	7.5	24	75	19	P2	
8AU8A	G	7.5	18	45	19	P6, P2	
8AW8A	G	7.5	22	87	19	P2	
8AW8A	G	7.5	14	45	19	P6, P2	
8B8	B	7.5	0	63	28	P3	Short normal Pos. 2
8B8	B	7.5	0	63	19	P6, P3	
8B10	G	7.5	23	0	14	P2	D. T.
8B10	B	7.5	23	49	14	P5, P3	D. T.
8BA8	G	7.5	26	83	19	P2	
8BA8	G	7.5	35	87	19	P6, P1	
8BA11	R	7.5	32	79	33	P1	
8BA11	R	7.5	35	81	33	P6, P1	
8BH8	G	7.5	24	78	19	P2	
8BH8	G	7.5	35	88	19	P6, P1	
8BN8	R	7.5	15	0	36	P2	
8BN8	R	7.5	15	55	36	P6, P5, P3	
8BN8	B	7.5	15	55	36	P5, P3	
8BQ5	G	7.5	20	88	26	P2	
8BQ11	G	7.5	15	82	32	P2	
8BQ11	G	7.5	17	83	32	P6, P2	
8CG7	R	7.5	25	89	27	P1	D. T.
8CM7	R	7.5	30	85	16	P1	
8CM7	R	7.5	20	70	16	P6, P2	
8CN7	B	7.5	0	45	5	P5, P3	*
8CN7	R	7.5	0	45	27	P6, P5, P3	
8CN7	R	7.5	0	0	19	P1	*
8CS7	R	7.5	27	86	18	P1	
8CS7	R	7.5	33	44	18	P6, P2	
8CW5	G	7.5	30	84	26	P2	
8CX8	G	7.5	30	80	19	P2	
8CX8	G	7.5	15	45	19	P6, P2	
8CY7	R	7.5	19	5	18	P1	
8CY7	R	7.5	61	44	18	P6, P2	
8D3	B	6.3	10	82	9	P2	
8DX8	G	7.5	15	40	27	P6, P2	
8DX8	G	7.5	15	88	17	P2	
8EB8	G	7.5	20	90	19	P2	
8EB8	G	7.5	10	37	19	P6, P2	
8EM5	R	7.5	33	72	5	P2	

6T10	R	6.3	19	82	32	P2	
6T10	R	6.3	32	69	32	P6, P1	
6U3	B	6.3	0	60	34	P6, P3	
6U4	G	6.3	0	63	1	P3	
6U6	R	6.3	52	50	23	P2	
6U7	R	6.3	40	73	23	P1	Cap = G
6U8	R	6.3	20	57	28	P6, P2	
6U8	B	6.3	14	78	28	P2	
6U9	R	6.3	23	81	7	P2	
6U9	R	6.3	28	47	7	P6, P2	
6U10	B	6.3	17	10	31	P6, P2	
6U10	R	6.3	40	10	14	P1	Short normal Pos. 1
6U10	B	6.3	0	45	24	P5, P3	
6V3	G	6.3	0	40	26	P5, P3	Cap = K Short normal Pos. 1
6V4	R	6.3	0	63	27	P6, P3	
6V4	G	6.3	0	63	27	P3	
6V6	R	6.3	16	54	23	P2	
6W4	G	6.3	0	63	1	P3	
6W5	R	6.3	0	63	12	P3	
6W5	R	6.3	0	63	23	P3	
6W6	R	6.3	46	72	23	P2	
6W7	R	6.3	35	45	23	P1	Cap = G
6X4	R	6.3	0	63	10	P3	D. T.
6X5	R	6.3	0	63	12	P3	
6X5	R	6.3	0	63	23	P3	
6X8	G	6.3	16	67	19	P2	
6X8	G	6.3	16	69	19	P6, P2	
6X9	R	6.3	20	90	7	P2	
6X9	R	6.3	10	47	7	P6, P2	
6Y6	R	6.3	55	50	23	P2	
6Y9	G	6.3	21	81	7	P2	
6Y9	G	6.3	24	90	7	P6, P2	
6Z10	R	6.3	30	57	14	P2	
6Z10	R	6.3	0	10	14	P6, P5, P3	
6ZY5	R	6.3	0	63	12	P3	
6ZY5	R	6.3	0	63	23	P3	
7AN7	R	7.5	28	62	6	P2	
7AN7	B	7.5	0	45	4	P5, P3	
7AU7	R	7.5	21	89	27	P1	* D. T.
7D9	B	6.3	31	40	11	P2	
7DJ8	R	7.5	24	86	27	P2	D. T.
7ES8	R	7.5	25	80	27	P2	D. T.
7EY6	R	7.5	24	67	23	P2	
7GS7	G	7.5	15	85	27	P2	
7GS7	G	7.5	35	42	27	P6, P2	
7HG8	R	7.5	0	45	16	P5, P3	
7HG8	G	7.5	16	89	19	P2	
8ET7	G	7.5	20	90	19	P2	
8ET7	G	7.5	20	40	19	P6, P5, P3	
8ET7	R	7.5	20	40	19	P6, P5, P3	
8FQ7	R	7.5	25	90	27	P1	D. T.
8GK6	R	7.5	15	90	26	P2	
8GN8	G	7.5	20	90	19	P2	
8GN8	G	7.5	10	15	19	P6, P1	
8HA6	R	7.5	23	90	26	P2	
8HG8	R	7.5	0	45	16	P5, P3	
8HG8	G	7.5	16	89	19	P2	
8JE8	G	7.5	20	88	19	P2	
8JE8	G	7.5	15	45	19	P6, P2	
8JK8	R	7.5	29	87	27	P1	
8JK8	R	7.5	18	84	27	P2	
8JL8	G	7.5	26	86	19	P2	
8JL8	G	7.5	19	44	19	P6, P2	
8JT8	G	7.5	27	89	19	P2	
8JT8	G	7.5	20	53	19	P6, P1	
8JV8	G	7.5	17	87	19	P2	
8JV8	G	7.5	15	40	19	P6, P2	
8KA8	G	7.5	20	77	28	P2	
8KA8	B	7.5	15	44	28	P2	
8KS8	G	7.5	30	83	19	P2	
8KS8	G	7.5	15	40	19	P6, P2	
8LC8	B	7.5	14	50	28	P2	
8LC8	G	7.5	25	45	28	P2	
8SN7	R	7.5	31	87	30	P1	D. T.
8U9	R	7.5	23	81	7	P2	
8U9	R	7.5	28	47	7	P6, P2	
8X9	R	7.5	20	90	7	P2	
8X9	R	7.5	10	47	7	P6, P2	
9A8	R	10	16	78	28	P6, P2	
9A8	B	10	28	52	28	P2	
9AB4	G	10	16	45	20	P2	
9AK8	G	10	20	5	17	P6, P1	
9AK8	B	10	20	40	17	P5, P3	
9AK8	B	10	20	49	17	P6, P5, P3	
9AK8	R	10	20	49	17	P6, P5, P3	Short normal Pos. 1
9AQ8	R	10	10	78	27	P2	D. T.
9AU7	R	10	21	89	27	P1	* D. T.
9BR7	G	10	16	45	37	P6, P2	*
9BR7	G	10	16	45	37	P5, P3	*
9BR7	B	10	16	45	37	P5, P3	*
9BR8	G	10	20	57	27	P6, P2	
9BR8	G	10	14	78	27	P2	
9CG8A	G	10	16	77	27	P2	
9CG8A	G	10	19	66	27	P6, P2	
9CL8	G	10	18	75	27	P2	
9CL8	G	10	18	80	27	P6, P2	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
9D6	B	6.3	10	10	9	P2	
9DZ8	B	10	0	60	28	P3	Short normal Pos. 2
9DZ8	B	10	0	60	19	P6, P3	
9EA8	R	10	20	68	28	P6, P2	
9EA8	B	10	13	83	28	P2	
9GV8	G	10	47	78	27	P2	
9GV8	R	10	17	70	27	P6, P2	
9KZ8	G	10	17	82	36	P6, P2	
9KZ8	G	10	14	84	36	P2	
9U8	R	10	20	57	28	P6, P2	
9U8	B	10	14	78	28	P2	
9X8	G	10	16	67	19	P2	
9X8	G	10	16	69	19	P6, P2	
10AL11	R	10	19	83	32	P2	
10AL11	R	10	32	69	32	P6, P1	
10BQ5	G	10	20	88	26	P2	
10C8	R	10	19	77	17	P2	
10C8	B	10	15	60	18	P6, P2	
10CW5	G	10	28	81	26	P2	
10DA7	R	10	31	87	18	P1	
10DA7	R	10	58	52	18	P6, P2	
10DE7	R	10	33	85	18	P1	
10DE7	R	10	59	66	18	P6, P2	
10DR7	R	10	20	20	18	P1	
10DR7	R	10	59	66	18	P6, P2	
10DX8	G	10	15	40	27	P6, P2	
10DX8	G	10	15	88	17	P2	
10EB8	G	10	20	90	19	P2	
10EB8	G	10	10	47	19	P6, P1	
10EG7	R	10	35	82	30	P1	
10EG7	R	10	59	60	30	P6, P2	
10EM7	R	10	20	20	30	P1	
10EM7	R	10	60	70	30	P6, P2	
10EW7	R	10	35	82	18	P1	
10EW7	R	10	59	60	18	P6, P2	
10FD7	R	10	20	20	18	P1	
10FD7	R	10	59	60	18	P6, P2	
10FR7	R	10	20	20	18	P1	
10FR7	R	10	60	70	18	P6, P2	
10GF7	R	10	22	0	15	P1	
10GF7	R	10	61	72	15	P6, P2	
10GK6	R	10	15	90	26	P2	
10GN8	G	10	20	90	19	P2	
10GN8	G	10	10	15	19	P6, P1	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
12AE10	R	12.6	51	39	32	P2	
12AE10	R	12.6	35	33	32	P6, P1	
12AF3	G	12.6	0	63	17	P3	Cap = K
12AF6	G	12.6	0	47	20	P5, P3	
12AG6	R	12.6	0	45	10	P5, P3	
12AJ6	R	12.6	0	48	10	P5, P3	
12AJ6	B	12.6	0	40	10	P5, P3	D. T.
12AL5	R	12.6	0	49	21	P5, P3	D. T.
12AL8	R	12.6	0	45	6	P5, P3	
12AL8	B	12.6	0	45	5	P5, P3	
12AL11	R	12.6	19	83	32	P2	
12AL11	R	12.6	32	69	32	P6, P1	
12AQ5	G	12.6	30	44	11	P1	
12AS5	R	12.6	48	46	20	P2	
12AT6	G	12.6	18	0	10	P1	
12AT6	B	12.6	18	40	10	P5, P3	D. T.
12AT7	R	12.6	16	45	27	P2	* D. T.
12AU6	R	12.6	21	42	11	P2	
12AU7A	R	12.6	21	89	27	P1	* D. T.
12AU8	G	12.6	24	78	19	P2	
12AU8	G	12.6	18	45	19	P6, P2	
12AV5	B	12.6	67	88	12	P1	
12AV6	G	12.6	10	0	10	P1	
12AV6	B	12.6	10	40	10	P5, P3	D. T.
12AV7	R	12.6	12	82	27	P2	* D. T.
12AW6	R	12.6	20	43	11	P2	
12AX3	R	12.6	0	63	31	P3	
12AX4	G	12.6	0	63	1	P3	
12AX7A	R	12.6	10	0	27	P1	* D. T.
12AY3	R	12.6	0	63	3	P3	
12AY7	R	12.6	14	77	27	P1	* D. T.
12AZ7	R	12.6	16	45	27	P2	* D. T.
12B4	G	12.6	57	58	19	P2	
12BA6	R	12.6	25	43	11	P2	
12BA7	G	12.6	0	60	27	P6, P3	
12BD6	R	12.6	36	86	11	P1	
12BE3	R	12.6	0	63	31	P3	
12BE6	R	12.6	21	78	11	P2	
12BF6	G	12.6	23	86	10	P1	
12BF6	B	12.6	23	40	10	P5, P3	D. T.
12BF11	R	12.6	42	73	32	P2	
12BF11	R	12.6	32	78	32	P6, P1	
12BH7A	R	12.6	29	40	27	P2	* D. T.
12BK5	R	12.6	0	63	19	Make	Leakage Test Only
12BK5	R	12.6	0	63	19	P6, P3	Short Normal Pos. 1

10HA6	R	10	23	90	26	P2	
10HF8	G	10	22	89	19	P2	
10HF8	G	10	15	40	19	P6, P2	
10J10	R	10	19	82	14	P2	
10J10	R	10	31	0	14	P6, P1	300 Min
10JA8	G	10	20	88	19	P2	
10JA8	G	10	15	40	19	P6, P2	
10JT8	G	10	27	89	19	P2	
10JT8	G	10	20	20	19	P6, P1	
10JY8	G	10	22	87	19	P2	
10JY8	G	10	14	86	19	P6, P2	
10KR8	G	10	27	89	19	P2	
10KR8	G	10	14	86	19	P6, P2	
10KU8	G	10	27	89	19	P2	
10KU8	G	10	27	40	19	P6,P5,P3	
10KU8	R	10	27	40	19	P6,P5,P3	
10LB8	G	10	27	89	19	P2	
10LB8	G	10	16	49	19	P6, P2	
10LW8	G	10	24	90	19	P2	
10LW8	G	10	15	48	19	P6, P2	
11AR11	G	10	28	87	32	P1	D. T.
11BQ11	G	10	15	82	32	P2	
11BQ11	G	10	17	83	32	P6, P2	
11C5	R	12. 6	44	70	20	P2	
11CY7	R	10	19	5	18	P1	
11CY7	R	10	61	44	18	P6, P2	
11FY7	R	10	20	20	2	P1	
11FY7	R	10	57	35	2	P6, P2	
11JE8	G	10	20	88	19	P2	
11JE8	G	10	15	45	19	P6, P2	
11KV8	G	10	22	86	19	P2	
11KV8	G	10	15	40	19	P6, P2	
11LQ8	G	10	22	90	19	P2	
11LQ8	G	10	14	86	19	P6, P2	
11Y9	G	10	21	81	7	P2	
11Y9	G	10	24	90	7	P6, P2	
12A4	G	12. 6	30	82	19	P2	
12A6	R	12. 6	30	89	23	P1	
12A8	R	12. 6	54	69	23	P1	Cap = G
12AB5	R	12. 6	20	55	5	P2	
12AC6	G	12. 6	0	47	20	P5, P3	
12AD6	G	12. 6	0	45	20	P5, P3	
12AD7	R	12. 6	10	0	27	P1	* D. T.
12AE6	R	12. 6	0	47	10	P5, P3	
12AE6	B	12. 6	0	40	10	P5, P3	D. T.
12AE7	G	12. 6	0	45	27	P5, P3	*
12AE7	G	12. 6	0	45	27	P6,P5,P3	

12BK6	G	12. 6	10	0	10	P1	
12BK6	B	12. 6	10	50	10	P5, P3	D. T.
12BL6	G	12. 6	0	46	20	P5, P3	
12BN6	R	12. 6	0	20	38	P5, P3	
12BQ6GTA	R	12. 6	60	50	23	P2	Cap = P
12BQ6GTB	R	12. 6	60	60	23	P2	Cap = P
12BR3	G	12. 6	0	63	17	P3	Cap = K
12BR7	G	12. 6	16	45	37	P6, P2	*
12BR7	G	12. 6	16	45	37	P5, P3	*
12BR7	B	12. 6	16	45	37	P5, P3	*
12BS3	R	12. 6	0	63	3	P3	
12BT3	R	12. 6	0	63	31	P3	
12BT6	G	12. 6	18	0	10	P1	
12BT6	B	12. 6	18	50	10	P5, P3	D. T.
12BU6	G	12. 6	23	86	10	P1	
12BU6	B	12. 6	23	50	10	P5, P3	D. T.
12BV7	R	12. 6	19	89	26	P2	
12BW4	R	12. 6	0	45	16	P6,P5,P3	
12BW4	R	12. 6	0	45	26	P5, P3	
12BX6	R	12. 6	17	85	26	P2	
12BY7A	R	12. 6	18	89	26	P2	
12BZ6	R	12. 6	15	85	11	P2	
12BZ7	R	12. 6	17	60	27	P1	* D. T.
12C5	R	12. 6	47	62	20	P2	
12CA5	R	12. 6	35	83	20	P2	
12CK3	R	12. 6	0	63	3	P3	
12CN5	R	12. 6	0	45	20	Make Leakage test only	
12CN5	G	12. 6	0	45	9	P5, P3	Short normal Pos. 1
12CR6	R	12. 6	0	45	21	P5, P3	
12CR6	B	12. 6	0	45	20	P5, P3	Jumper K to G Short normal Pos. 2
12CS5	R	12. 6	48	71	5	P2	
12CS6	G	12. 6	43	67	11	P1	
12CT8	R	12. 6	31	51	17	P2	
12CT8	B	12. 6	21	59	17	P6, P2	♦ *
12CU5	R	12. 6	44	73	20	P2	
12CU6	R	12. 6	60	60	23	P2	Cap = P
12CX6	G	12. 6	0	46	20	P5, P3	
12CY6	G	12. 6	0	47	20	P5, P3	
12D4	G	12. 6	0	63	1	P3	
12DB5	R	12. 6	48	71	5	P2	
12DE8	B	12. 6	0	45	19	P6,P5,P3	
12DE8	G	12. 6	0	45	18	P6,P5,P3	
12DF5	R	12. 6	0	63	27	P3	* D. T.
12DF7	R	12. 6	10	0	27	P1	* D. T.
12DJ8	R	12. 6	24	86	27	P2	D. T.
12DK6	R	12. 6	18	86	11	P2	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
12DK7	G	12.6	0	38	17	P6,P5,P3	
12DK7	B	12.6	0	45	36	P6,P5,P3	
12DK7	R	12.6	0	45	28	P5, P3	Jumper K to G Short normal Pos. 2
12DL8	G	12.6	0	40	37	P6,P5,P3	Short normal Pos. 2
12DL8	B	12.6	0	43	27	P5, P3	
12DL8	B	12.6	0	45	19	P6,P5,P3	
12DM4	G	12.6	0	63	1	P3	
12DM5	R	12.6	47	62	20	P2	
12DM7	R	12.6	10	0	27	P1	* D.T.
12DQ4	G	12.6	0	63	1	P3	
12DQ6	R	12.6	59	60	23	P2	Cap = P
12DQ6A	R	12.6	59	67	23	P2	Cap = P
12DQ6B	R	12.6	59	73	23	P2	Cap = P
12DQ7	R	12.6	27	86	26	P2	
12DS7	G	12.6	0	45	27	P5, P3	
12DS7	B	12.6	0	45	27	P5, P3	
12DS7	G	12.6	0	45	37	P6,P5,P3	
12DT5	R	12.6	36	74	5	P2	
12DT6	R	12.6	33	40	11	P1	
12DT7	R	12.6	10	0	27	P1	* D.T.
12DT8	R	12.6	10	79	27	P2	D.T.
12DU7	B	12.6	0	45	19	P6,P5,P3	
12DU7	G	12.6	0	35	17	P6,P5,P3	
12DU7	G	12.6	0	40	6	P5, P3	
12DV7	G	12.6	0	45	36	P5, P3	Short normal Pos.1 & 3
12DV7	R	12.6	0	30	19	P5, P3	Short normal Pos.1 & 3
12DV7	G	12.6	0	30	19	P6,P5,P3	
12DV8	G	12.6	0	45	37	P6,P5,P3	Short normal Pos. 2
12DV8	B	12.6	0	43	27	P5, P3	
12DV8	B	12.6	0	45	19	P6,P5,P3	
12DW5	R	12.6	65	45	5	P2	
12DW7	R	12.6	10	0	27	P1	*
12DW7	R	12.6	21	89	27	P6, P1	
12DW8	B	12.6	0	45	27	P5, P3	
12DW8	G	12.6	0	45	27	P5, P3	
12DW8	G	12.6	0	45	27	P6,P5,P3	
12DY8	G	12.6	0	45	28	P5, P3	
12DY8	B	12.6	0	45	36	P6,P5,P3	
12DZ6	G	12.6	0	46	20	P5, P3	
12DZ8	B	12.6	0	60	28	P3	Short normal Pos. 2
12DZ8	B	12.6	0	60	19	P6, P3	
12EA6	G	12.6	0	47	20	P5, P3	
12ED5	R	12.6	35	83	20	P2	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
12J5	R	12.6	24	90	23	P1	
12J7	R	12.6	35	45	23	P1	Cap = G
12J8	R	12.6	0	45	34	P5, P3	D.T. Short normal Pos. 2
12J8	B	12.6	0	45	36	P5, P3	
12JB6	G	12.6	58	48	3	P2	Cap = P
12JN8	G	12.6	19	81	27	P2	
12JN8	G	12.6	16	82	27	P6, P2	
12JT6	B	12.6	58	75	3	P2	
12K5	B	12.6	0	45	10	P5, P3	
12K7	R	12.6	34	85	23	P1	Cap = G
12K8	R	12.6	0	60	12	P6, P3	Cap = G
12KL8	G	12.6	31	55	36	P6, P1	
12KL8	G	12.6	0	40	26	P5, P3	
12L6	R	12.6	46	72	23	P2	
12R5	R	12.6	47	67	20	P2	
12R-K19	G	12.6	0	63	17	P3	Cap = K
12SA7	B	12.6	37	10	12	P2	350 Min
12SC7	G	12.6	10	0	30	P1	D.T. 350 Min
12SF5	B	12.6	10	0	1	P2	*
12SG7	G	12.6	0	60	12	P3	Short normal Pos. 2
12SH7	G	12.6	0	60	12	P3	Short normal Pos. 2
12SJ7	G	12.6	0	45	23	P5, P3	
12SK7	G	12.6	0	45	23	P5, P3	
12SL7	R	12.6	10	0	30	P1	D.T.
12SN7	R	12.6	31	87	30	P1	D.T.
12SQ7	R	12.6	0	45	30	P6,P5,P3	
12SQ7	G	12.6	0	45	1	P5, P3	
12SR7	R	12.6	0	45	30	P6,P5,P3	
12SR7	G	12.6	0	45	1	P5, P3	
12SW7	R	12.6	0	45	30	P6,P5,P3	
12SW7	G	12.6	0	45	1	P5, P3	
12SX7	R	12.6	31	87	30	P1	D.T.
12SY7	B	12.6	37	10	12	P2	350 Min
12T10	R	12.6	19	78	32	P2	
12T10	R	12.6	32	69	32	P6, P1	
12U7	G	12.6	0	45	27	P5, P3	*
12U7	G	12.6	0	45	27	P6,P5,P3	
12V6	R	12.6	16	54	23	P2	
12W6	R	12.6	46	72	23	P2	
12X4	R	12.6	0	63	10	P3	D.T.
13CW4	R	12.6	17	84	39	P2	
13DE7	R	12.6	33	85	18	P1	
13DE7	R	12.6	59	66	18	P6, P2	

12EG6	R	12.6	0	45	10	P5, P3	
12EH5	R	12.6	30	89	20	P2	
12EK6	G	12.6	0	46	20	P5, P3	
12EL6	R	12.6	0	45	10	P5, P3	D. T.
12EL6	R	12.6	0	45	8	P5, P3	
12EM6	B	12.6	0	45	36	P6, P5, P3	
12EM6	G	12.6	0	45	17	P6, P5, P3	
12EN6	R	12.6	49	69	23	P2	
12EQ7	G	12.6	32	80	36	P6, P1	
12EQ7	G	12.6	0	43	26	P5, P3	
12EZ6	G	12.6	0	47	20	P5, P3	
12F5	R	12.6	5	0	23	P1	Cap = G
12F8	R	12.6	0	45	28	P5, P3	
12F8	G	12.6	0	45	28	P5, P3	
12F8	B	12.6	0	45	28	P5, P3	
12FK6	R	12.6	0	48	10	P5, P3	
12FK6	B	12.6	0	40	10	P5, P3	D. T.
12FM6	R	12.6	0	48	10	P5, P3	
12FM6	B	12.6	0	40	10	P5, P3	D. T.
12FQ8	R	12.6	5	5	18	P1	D. T. 200 Min
12FQ8	G	12.6	5	43	18	P1	D. T.
12FR8	B	12.6	0	42	19	P5, P3	*
12FR8	B	12.6	0	45	19	P6, P5, P3	*
12FR8	B	12.6	0	48	36	P6, P5, P3	*
12FT6	R	12.6	0	48	10	P5, P3	
12FT6	B	12.6	0	40	10	P5, P3	D. T.
12FV7	R	12.6	31	77	27	P2	* D. T.
12FX5	R	12.6	32	87	20	P2	
12FX8	G	12.6	0	46	5	P5, P3	
12FX8	B	12.6	0	50	5	P5, P3	*
12FY8	B	12.6	0	58	28	P3	Short normal Pos. 2
12FY8	B	12.6	0	60	19	P6, P3	
12G4	G	12.6	29	87	20	P1	*
12G8	B	12.6	0	45	19	P6, P5, P3	
12G8	R	12.6	0	45	34	P5, P3	
12G11	R	12.6	52	50	32	P2	
12G11	R	12.6	32	80	32	P6, P1	
12GA6	R	12.6	0	45	10	P5, P3	
12GB3	R	12.6	40	79	23	P2	Cap = P
12GC6	G	12.6	61	43	12	P2	Cap = P
12GE5	R	12.6	62	69	24	P2	
12GJ5	G	12.6	58	75	3	P2	Cap = P
12GN7	R	12.6	23	90	26	P2	
12GT5	G	12.6	58	75	3	P2	
12GV5	G	12.6	65	59	24	P2	Cap = P
12GW6	R	12.6	59	73	23	P2	Cap = P
12H4	G	12.6	29	87	20	P1	*
12HL5	G	12.6	39	81	26	P2	

13DR7	R	12.6	20	20	18	P1	
13DR7	R	12.6	59	66	18	P6, P2	
13EM7	R	12.6	20	20	30	P1	
13EM7	R	12.6	60	70	30	P6, P2	
13FD7	R	12.6	20	20	18	P1	
13FD7	R	12.6	59	60	18	P6, P2	
13FM7	R	12.6	14	62	2	P1	
13FM7	R	12.6	62	66	2	P6, P2	
13FR7	R	12.6	20	20	18	P1	
13FR7	R	12.6	60	70	18	P6, P2	
13GB5	R	12.6	0	63	36	P6, P3	Cap = P Use SA-8 Adapter
13GF7	R	12.6	22	0	15	P1	
13GF7	R	12.6	60	72	15	P6, P2	
13J10	R	12.6	19	82	14	P2	
13J10	R	12.6	31	0	14	P6, P1	300 Min
13Z10	R	12.6	30	57	14	P2	
13Z10	R	12.6	0	10	14	P6, P5, P3	
14GT8	G	12.6	0	0	17	P1	350 Min
14GT8	B	12.6	0	45	5	P5, P3	Short normal Pos. 2
14GT8	R	12.6	0	45	36	P6, P5, P3	
14GW8	G	12.6	10	10	17	P6, P1	250 Min
14GW8	B	12.6	0	45	19	P5, P3	Jumper K to G Short normal Pos. 2
14JG8	G	12.6	0	45	5	P5, P3	Short normal Pos. 1
14JG8	B	12.6	0	45	5	P5, P3	Short normal Pos. 2
14JG8	G	12.6	10	10	17	P1	
15A6	G	12.6	18	86	36	P6, P2	
15AF11	G	12.6	23	85	31	P6, P2	Short normal Pos. 1
15AF11	R	12.6	14	52	31	P6, P2	Permissible short in Pos. 1
15AF11	R	12.6	10	52	31	P2	
15BD11	G	12.6	20	87	31	P6, P2	Short normal Pos. 1
15BD11	R	12.6	13	60	31	P6, P2	Permissible short in Pos. 1
15BD11	R	12.6	11	52	31	P2	
15CW5	G	12.6	30	84	26	P2	
15DQ8	G	12.6	15	40	27	P6, P2	
15DQ8	G	12.6	15	88	17	P2	
15EA7	R	12.6	24	0	30	P1	
15EA7	R	12.6	58	55	30	P6, P2	
15EW6	R	12.6	13	91	11	P2	
15EW7	R	12.6	35	80	18	P1	
15EW7	R	12.6	59	48	18	P6, P2	
15FM7	R	12.6	14	62	2	P1	
15FM7	R	12.6	58	47	2	P6, P2	
15FY7	R	12.6	20	20	2	P1	
15FY7	R	12.6	57	68	2	P6, P2	

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Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
15HB6	R	12.6	25	89	26	P2	
15KY8	R	17	20	60	15	P1	
15KY8	R	17	52	50	15	P6, P2	
16A5	G	17	43	80	26	P2	
16A8	B	12.6	0	63	28	P3	Short normal Pos. 2
16A8	B	12.6	0	63	19	P6, P3	
16AQ3	G	17	0	63	19	P3	Cap = K
							Short normal Pos. 2
16GK6	R	17	15	90	26	P2	
16GY5	G	17	67	59	24	P2	Cap = P
16Y9	G	17	21	81	7	P2	
16Y9	G	17	24	90	7	P6, P2	
17A8	R	17	16	78	28	P6, P2	
17A8	B	17	28	52	28	P2	
17AB10	R	17	34	71	14	P2	
17AB10	R	17	0	41	14	P6, P3	
17AV5	B	17	68	88	12	P1	
17AX3	R	17	0	63	31	P3	
17AX4	G	17	0	63	1	P3	
17AY3	R	17	0	63	3	P3	
17BE3	R	17	0	63	31	P3	
17BF11	R	17	42	73	32	P2	
17BF11	R	17	32	78	32	P6, P1	
17BH3	R	17	0	63	3	P3	
17BQ6	R	17	60	60	23	P2	Cap = P
17BR3	G	17	0	63	17	P3	Cap = K
17BS3	R	17	0	63	3	P3	
17BZ3	R	17	0	60	31	P3	
17C5	R	17	47	62	20	P2	
17C9	R	17	27	75	37	P2	D. T.
17CA5	R	17	35	83	20	P2	
17CK3	R	17	0	63	3	P3	
17CQ4	G	17	0	63	1	P3	
17CU5	R	17	44	73	20	P2	
17D4	G	17	0	63	1	P3	
17DE4	G	17	0	63	1	P3	
17DM4	G	17	0	63	1	P3	
17DQ4	G	17	0	63	1	P3	
17DQ6	R	17	59	60	23	P2	Cap = P
17DQ6A	R	17	59	67	23	P2	Cap = P
17DQ6B	R	17	59	73	23	P2	Cap = P
17EW8	R	17	12	82	27	P2	D. T.
17GE5	R	17	62	69	24	P2	
17GJ5	G	17	58	75	3	P2	Cap = P

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
19EA8	R	20	20	68	28	P6, P2	
19EA8	B	20	13	83	28	P2	
19EW7	R	20	35	82	18	P1	
19EW7	R	20	59	60	18	P6, P2	
19EZ8	R	17	15	47	6	P2	*
19EZ8	G	17	0	45	34	P5, P3	D. T.
							Short normal Pos.1 & 3
19FL8	B	20	36	0	28	P2	250 Min
19FL8	G	20	0	45	28	P5, P3	
19FL8	G	20	0	45	27	P5, P3	
19GQ7	G	17	0	45	18	P5, P3	
19GQ7	B	17	0	45	17	P5, P3	
19GQ7	R	17	0	45	17	P6, P5, P3	
19HR6	R	20	20	70	11	P2	
19HS6	R	20	23	71	11	P2	
19HV8	G	20	19	73	27	P2	
19HV8	G	20	10	38	27	P6, P1	
19J6	G	20	17	62	21	P2	D. T.
19JN8	G	20	19	81	27	P2	
19JN8	G	20	16	82	27	P6, P2	
19KG8	G	20	19	81	27	P2	
19KG8	R	20	16	81	27	P6, P2	
19T8	G	20	10	0	17	P6, P1	350 Min
19T8	B	20	10	49	17	P5, P3	D. T.
19T8	R	20	10	49	17	P6, P5, P3	Short normal Pos. 1
19X3	B	20	0	60	34	P6, P3	
19X8	G	20	16	67	19	P2	
19X8	G	20	16	69	19	P6, P2	
19Y3	B	20	0	60	34	P6, P3	
20AQ3	G	20	0	63	19	P3	Cap = K
							Short normal Pos. 2
20EQ7	G	20	32	80	36	P6, P1	
20EQ7	G	20	0	43	26	P5, P3	
20EW7	R	20	35	82	18	P1	
20EW7	R	20	59	60	18	P6, P2	
20EZ7	R	20	10	0	35	P1	D. T.
21GY5	G	20	67	59	24	P2	Cap = P
21HB5	R	20	67	59	24	P2	
21HD5	G	20	67	60	33	P2	
21HJ5	G	20	0	63	24	P3	
22BH3	R	20	0	63	3	P3	
22BW3	R	20	0	63	31	P3	
22DE4	G	20	0	63	1	P3	
22JF6	G	20	90	82	3	P1	Cap = P

17GT5	G	17	58	75	3	P2	
17GV5	G	17	65	59	24	P2	Cap = P
17GW6	R	17	59	73	23	P2	Cap = P
17H3	G	17	0	63	5	P3	
17HC8	B	17	0	60	28	P3	Short normal Pos. 2
17HC8	B	17	0	60	19	P6, P3	
17JB6	G	17	58	75	3	P2	Cap = P
17JG6	B	17	90	86	3	P1	
17JK8	R	17	25	87	27	P1	D. T.
17JT6	B	17	58	75	3	P2	
17JZ8	G	17	52	46	2	P6, P2	
17JZ8	G	17	32	81	2	P1	
17L6	R	17	46	72	23	P2	
17LD8	R	17	32	81	15	P1	
17LD8	R	17	48	65	15	P6, P2	
17R5	R	17	47	67	20	P2	
17R-K19	G	17	0	63	17	P3	Cap = K
17W6	R	17	46	72	23	P2	
17X10	R	17	42	73	14	P2	
17X10	R	17	31	0	14	P6, P1	300 Min
17Z3	G	17	0	63	17	P3	Cap = K
18A5	B	17	75	81	12	P1	
18DZ8	B	17	0	60	28	P3	Short normal Pos. 2
18DZ8	B	17	0	60	19	P6, P3	
18FW6	R	17	32	89	11	P1	
18FX6	G	17	13	68	11	P2	
18FY6	G	17	12	0	10	P1	350 Min
18FY6	B	17	12	40	10	P5, P3	D. T.
18GB5	R	20	0	63	36	P6, P3	Cap = P Use SA-8 Adapter
18GD6	R	17	21	42	11	P2	
18GV8	G	20	47	78	27	P2	
18GV8	R	20	17	70	27	P6, P2	
18HB8	B	17	0	60	28	P3	
18HB8	R	17	0	47	27	P3	
18J6	G	17	17	62	21	P2	D. T.
19AQ5	G	20	30	44	11	P2	
19AU4	G	20	0	63	1	P3	
19BG6	G	20	23	72	12	P2	Cap = P
19BX6	R	20	17	85	26	P2	
19BY7	R	20	30	51	26	P2	
19C8	G	20	5	5	17	P6, P1	300 Min
19C8	B	20	5	49	17	P5, P3	D. T.
19C8	R	20	5	49	17	P6, P5, P3	Short normal Pos. 1
19CL8	G	20	18	75	27	P2	
19CL8	G	20	18	80	27	P6, P2	
19DE7	R	20	33	85	18	P1	
19DE7	R	20	59	66	18	P6, P2	
22JG6	B	20	90	86	3	P2	
22JU6	G	20	70	44	3	P2	Cap = P
25A6	R	25	72	83	23	P1	
25AC5	R	25	0	0	23	P1	
25AV5	B	25	67	88	12	P1	
25AX4	G	25	0	63	1	P3	
25B6G	R	25	74	90	23	P1	
25BK5	R	25	0	63	19	Make	Leakage Test Only
25BK5	R	25	0	63	19	P6, P3	Short normal Pos. 1
25BQ6GT	R	25	60	50	23	P2	Cap = P
25BQ6GTB	R	25	60	60	23	P2	Cap = P
25BR3	G	25	0	63	17	P3	Cap = K
25C5	R	25	47	62	20	P2	
25C6	R	25	55	50	23	P2	
25CA5	R	25	35	83	20	P2	
25CD6	G	25	76	44	12	P2	Cap = P
25CU6	R	25	60	60	23	P2	Cap = P
25D4	G	25	0	63	1	P3	
25DK4	R	25	0	63	8	P3	
25DN6	G	25	65	68	12	P2	Cap = P
25DQ6	R	25	59	60	23	P2	Cap = P
25DQ6A	R	25	59	67	23	P2	Cap = P
25DT5	R	25	36	74	5	P2	
25E6G	R	25	49	59	23	P2	
25EC6	G	25	70	40	12	P2	Cap = P
25EH5	R	25	30	89	20	P2	
25F5	R	25	47	55	20	P2	
25FY8	B	25	0	58	28	P3	Short normal Pos. 2
25FY8	B	25	0	60	19	P6, P3	
25L6	R	25	43	77	23	P2	
25R-K19	G	25	0	63	17	P3	Cap = K
25W4	G	25	0	63	1	P3	
25W6	R	25	46	72	23	P2	
25Z4	R	25	0	63	12	P3	
26A6	R	25	37	83	11	P1	
26AQ8	R	25	10	77	27	P2	D. T.
26BK6	G	25	10	0	10	P1	
26BK6	B	25	10	50	10	P5, P3	D. T.
26C6	G	25	23	86	10	P1	
26C6	B	25	23	40	10	P5, P3	D. T.
26D6	G	25	21	73	11	P2	
27GB5	R	25	0	63	36	P6, P3	Cap = P Use SA-8 Adapter
28AK8	G	25	20	5	17	P6, P1	
28AK8	B	25	20	40	17	P5, P3	
28AK8	B	25	20	49	17	P6, P5, P3	
28AK8	R	25	20	49	17	P6, P5, P3	Short normal Pos. 1
28GB5	R	25	0	63	36	P6, P3	Cap = P Use SA-8 Adapter

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Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
28HA6	R	25	23	90	26	P2	
28HD5	G	25	67	60	33	P2	
29GK6	R	25	15	87	26	P2	
30A5	R	25	30	84	20	P2	
30AE3	G	25	0	63	19	P3	Cap = K
							Short normal Pos. 2
30AG11	R	35	16	80	32	P2	
30AG11	G	35	16	80	24	P2	Short normal Pos. 1
30AG11	B	35	0	45	31	P6,P5,P3	Short normal Pos. 2
30AG11	G	35	0	45	14	P5, P3	Jumper P to G
							Short normal Pos. 1
30HJ5	G	25	0	63	24	P3	
32ET5	R	35	47	47	20	P2	
33GT7	B	35	0	55	31	P6, P3	Short normal Pos. 2
33GT7	G	35	0	63	31	P6, P3	Short normal Pos. 2
33GY7	G	35	71	46	33	P6, P2	
33GY7	G	35	71	63	31	P3	*
34CD3	R	35	0	63	31	P3	
34CE3	R	35	0	63	31	P3	
34GD5	R	35	47	48	20	P2	
34R3	G	35	0	63	17	P3	Cap = K
35B5	G	35	44	70	11	P2	
35C5	R	35	44	70	20	P2	
35CD6	G	35	76	44	12	P2	Cap = P
35DZ8	B	35	0	60	28	P3	Short normal Pos. 2
35DZ8	B	35	0	60	19	P6, P3	
35EH5	R	35	30	89	20	P2	
35GL6	R	35	53	43	38	P2	*
35HB8	B	35	0	60	28	P3	
35HB8	R	35	0	47	27	P3	
35L6	R	35	48	45	23	P2	
35W4	R	35	0	63	8	P3	
35Z4	R	35	0	63	12	P3	
35Z5	R	35	0	63	12	P6, P3	
36AM3	R	35	0	63	8	P3	
40FR5	R	35	47	46	20	P2	
45Z5	R	50	0	63	12	P3	
50B5	G	50	47	62	11	P2	
50BK5	R	50	0	63	19	Make	Leakage Test Only
50BK5	R	50	0	63	19	P6, P3	Short normal Pos. 1
50BM8	B	50	0	63	28	P3	Short normal Pos. 2
50BM8	B	50	0	63	19	P6, P3	
50C5	R	50	47	62	20	P2	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
5751	R	12.6	10	0	27	P1	* D. T.
5814	R	12.6	21	89	27	P1	* D. T.
5824	R	25	74	90	23	P1	
5838	R	12.6	0	63	12	P3	
5838	R	12.6	0	63	23	P3	
5839	R	25	0	63	12	P3	
5839	R	25	0	63	23	P3	
5844	G	6.3	33	85	21	P1	D. T.
5852	R	6.3	0	63	12	P3	
5852	R	6.3	0	63	23	P3	
5879	G	6.3	37	33	6	P1	
5881	R	6.3	25	69	23	P2	
5910	R	1.4	29	20	22	P1	
5915	G	6.3	43	85	11	P1	
5920	G	6.3	26	68	21	P2	D. T.
5931	R	5	0	63	1	P3	D. T.
5932	R	6.3	25	69	23	P2	
5963	R	12.6	35	77	27	P1	* D. T.
5964	G	6.3	17	70	21	P2	D. T.
5965	R	12.6	19	72	27	P2	* D. T.
5992	R	6.3	16	54	23	P2	
5998	R	6.3	57	80	30	P2	D. T.
6004	R	5	0	63	1	P3	Sect. 1 Front Cap = P
							Sect. 2 Rear Cap = P
6005	G	6.3	30	44	11	P2	
6028	R	20	27	15	11	P2	
6045	G	6.3	17	72	21	P2	D. T.
6046	R	25	43	77	23	P2	
6057	R	12.6	10	0	27	P1	* D. T.
6058	R	6.3	0	49	21	P5, P3	D. T.
6059	R	6.3	32	80	26	P1	
6060	R	12.6	16	45	27	P2	* D. T.
6064	B	6.3	10	82	9	P2	
6065	B	6.3	10	10	9	P2	
6066	G	6.3	18	0	10	P1	
6066	B	6.3	18	40	10	P5, P3	D. T.
6067	R	12.6	21	89	27	P1	* D. T.
6072	R	12.6	14	77	27	P1	* D. T.
6080	R	6.3	95	91	30	P1	D. T.
6082	R	25	95	91	30	P1	D. T.
6085	R	12.6	16	0	27	P2	* D. T.
6087	R	5	0	63	1	P3	D. T.
6095	G	6.3	30	44	11	P2	

50C6	R	50	55	50	23	P2	
50CA5	R	50	35	83	20	P2	
50DC4	R	50	0	63	8	P3	
50EH5	R	50	30	89	20	P2	
50FA5	R	50	44	70	20	P2	
50FE5	R	50	54	60	23	P2	
50FK5	R	50	32	87	20	P2	
50FY8	B	50	0	58	28	P3	Short normal Pos. 2
50FY8	B	50	0	60	19	P6, P3	Short normal Pos. 1
50HC6	R	50	35	81	38	P2	*
50HK6	R	50	53	61	38	P2	*
50HN5	G	50	39	81	26	P2	
50L6	R	50	46	72	23	P2	
60FX5	R	50	32	87	20	P2	
60HL5	G	50	34	81	26	P2	
117Z4	R	117	0	63	12	P3	
1216	G	6.3	33	85	21	P1	D. T.
1217	G	6.3	43	85	11	P1	
1218	R	6.3	12	88	9	P2	
1274	R	6.3	0	63	12	P3	
1274	R	6.3	0	63	23	P3	
1612	R	6.3	39	82	23	P1	
1613	R	6.3	25	87	23	P1	
1614	R	6.3	25	69	23	P2	
1620	R	6.3	35	48	23	P1	Cap = G
1621	R	6.3	25	87	23	P1	
1622	R	6.3	25	69	23	P2	
1626	R	12.6	46	88	23	P1	
1631	R	12.6	25	69	23	P2	
1632	R	12.6	43	77	23	P2	
1633	R	25	27	89	30	P1	D. T.
1634	G	12.6	10	0	30	P1	D. T. 350 Min
1654	R	1.4	0	44	22	P6, P5, P3	Cap = P 100 Min
1852	G	6.3	0	44	23	P5, P3	
1853	G	6.3	0	44	23	P5, P3	
5590	R	6.3	48	67	11	P1	
5591	R	6.3	27	15	11	P2	
5610	G	6.3	32	33	20	P2	
5654	R	6.3	27	15	11	P2	
5659	R	12.6	30	89	23	P1	
5661	G	12.6	0	45	23	P5, P3	
5691	R	6.3	10	0	30	P1	D. T.
5692	R	6.3	30	85	30	P1	D. T.
5693	G	6.3	0	45	23	P5, P3	
5725	R	6.3	28	58	11	P2	
5726	R	6.3	0	49	21	P5, P3	D. T.
5749	R	6.3	25	43	11	P2	
5750	R	6.3	21	73	11	P2	

6096	R	6.3	27	75	11	P2	
6097	R	6.3	0	49	21	P5, P3	D. T.
6099	G	6.3	17	62	21	P2	D. T.
6100	G	6.3	17	0	20	P2	
6101	G	6.3	17	62	21	P2	D. T.
6106	R	5	0	63	1	P3	D. T.
6113	R	6.3	10	0	30	P1	D. T.
6134	G	6.3	0	43	23	P5, P3	
6135	G	6.3	17	0	20	P2	
6136	R	6.3	21	42	11	P2	
6137	G	6.3	0	45	23	P5, P3	
6186	R	6.3	20	53	11	P2	
6187	R	6.3	28	58	11	P2	
6188	R	6.3	10	0	30	P1	D. T.
6189	R	12.6	21	89	27	P1	* D. T.
6197	G	6.3	24	88	5	P2	
6201	R	12.6	16	45	27	P2	* D. T.
6202	R	6.3	0	63	10	P3	D. T.
6203	G	6.3	0	67	28	P3	
6203	B	6.3	0	67	28	P3	
6211	R	12.6	27	42	27	P2	* D. T.
6216	G	6.3	28	86	36	P2	
6227	R	6.3	16	85	26	P2	
6265	R	6.3	19	0	11	P2	
6350	B	12.6	0	45	19	P6, P5, P3	
6350	G	12.6	0	45	28	P5, P3	
6374	G	6.3	0	60	28	P6, P3	Cap = P
6414	R	12.6	14	77	27	P2	* D. T.
6463	B	12.6	0	45	19	P6, P5, P3	
6463	G	12.6	0	45	28	P5, P3	
6485	R	6.3	20	83	11	P2	
6516	B	6.3	31	40	11	P2	
6520	R	6.3	95	91	30	P1	D. T.
6550	R	6.3	36	79	23	P2	
6660	R	6.3	25	43	11	P2	
6661	R	6.3	19	0	11	P2	
6662	R	6.3	32	83	11	P1	
6663	R	6.3	0	49	21	P5, P3	D. T.
6664	G	6.3	16	45	20	P2	
6669	G	6.3	30	44	11	P2	
6676	R	6.3	15	83	11	P2	
6677	G	6.3	24	88	5	P2	
6678	R	6.3	20	57	28	P6, P2	
6678	B	6.3	14	78	28	P2	
6679	R	12.6	16	45	27	P2	* D. T.
6680	R	12.6	21	89	27	P1	* D. T.
6681	R	12.6	10	0	27	P1	* D. T.
6687	G	6.3	43	67	11	P1	

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Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
6754	B	6.3	0	45	27	P5, P3	
6754	R	6.3	0	45	27	P6, P5, P3	
6829	R	12.6	18	72	27	P2	* D. T.
6887	R	6.3	0	49	21	P5, P3	D. T.
6888	G	6.3	0	45	23	P5, P3	
6919	R	6.3	0	49	21	P5, P3	D. T.
6922	R	6.3	24	86	27	P2	D. T.
6927	G	6.3	17	62	21	P2	D. T.
6954	R	6.3	19	48	11	P2	
6968	R	6.3	27	15	11	P2	
6973	R	6.3	29	63	5	P2	
7025	R	12.6	10	0	27	P1	* D. T.
7036	G	6.3	43	67	11	P1	
7054	R	12.6	20	87	26	P2	
7055	R	12.6	0	49	21	P5, P3	D. T.
7056	R	12.6	15	83	11	P2	
7057	R	12.6	20	77	27	P2	D. T.
7058	R	12.6	10	0	27	P1	D. T.
7059	R	12.6	20	57	28	P6, P2	
7059	B	12.6	14	78	28	P2	
7060	R	12.6	31	51	17	P2	
7060	B	12.6	21	59	17	P6, P2	♦ *
7061	R	12.6	30	47	5	P2	
7062	R	12.6	19	72	27	P2	* D. T.
7105	R	12.6	95	91	30	P1	D. T.
7137	G	6.3	15	85	38	P2	
7167	R	12.6	31	0	11	P2	
7189, A	G	6.3	20	88	26	P2	
7199	R	6.3	15	77	19	P6, P2	
7199	B	6.3	33	90	28	P1	
7244	G	6.3	17	62	21	P2	D. T.
7245	G	6.3	15	88	38	P2	
7247	R	12.6	10	0	27	P6, P1	
7247	R	12.6	21	89	27	P1	
7258	R	12.6	21	83	17	P2	
7258	B	12.6	28	0	18	P6, P2	
7308	R	6.3	24	86	27	P2	D. T.
7316	R	12.6	21	89	27	P1	*
7320	G	6.3	20	88	26	P2	
7355	G	6.3	55	88	23	P1	
7408	R	6.3	16	54	23	P2	
7534	R	6.3	0	63	12	P6, P3	Cap = P
7543	R	6.3	21	42	11	P2	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
8431	R	12.6	27	87	27	P2	D. T.
8445	R	6.3	20	55	28	P6, P2	
8445	B	6.3	20	55	28	P2	
8446	G	6.3	17	77	27	P2	
8446	G	6.3	15	65	27	P6, P2	
8489	R	6.3	20	80	17	P2	
8489	B	6.3	82	90	17	P6, P1	♦ *
8532	G	6.3	15	88	38	P2	
9001	R	6.3	35	50	11	P1	
9002	G	6.3	17	87	20	P1	
9003	R	6.3	40	56	11	P1	
9006	G	6.3	0	48	20	P5, P3	
CV131	B	6.3	10	10	9	P2	
CV133	G	6.3	17	0	20	P2	D. T.
CV135	R	6.3	0	63	10	P3	
CV136	B	6.3	31	40	11	P2	
CV138	B	6.3	10	82	9	P2	
CV140	R	6.3	0	49	21	P5, P3	D. T.
CV283	R	6.3	0	49	21	P5, P3	D. T.
CV321	R	6.3	25	69	23	P2	
CV366	G	6.3	0	45	23	P5, P3	
CV417	G	6.3	10	80	10	P2	
CV452	G	6.3	18	0	10	P1	
CV452	B	6.3	18	40	10	P5, P3	D. T.
CV453	R	6.3	21	78	11	P2	
CV454	R	6.3	25	43	11	P2	
CV455	R	12.6	16	45	27	P2	* D. T.
CV484	G	3	73	70	22	P1	♦
CV491	R	12.6	21	89	27	P1	* D. T.
CV492	R	12.6	10	0	27	P1	* D. T.
CV493	R	6.3	0	63	10	P3	D. T.
CV509	R	6.3	16	54	23	P2	
CV510	R	6.3	16	54	23	P2	
CV511	R	6.3	16	54	23	P2	
CV512	R	6.3	35	45	23	P1	Cap = G
CV515	R	6.3	55	50	23	P2	
CV517	R	---	0	36	1	P4	D. T.
CV525	R	12.6	30	89	23	P1	
CV526	R	12.6	30	89	23	P1	
CV534	R	12.6	24	90	23	P1	
CV535	R	12.6	24	90	23	P1	
CV537	B	12.6	37	10	12	P2	350 Min
CV538	B	12.6	37	10	12	P2	350 Min

7551	R	12.6	30	77	4	P2	
7558	R	6.3	30	77	4	P2	
7581	R	6.3	25	69	23	P2	
7586	R	6.3	30	56	39	P2	
7587	R	6.3	38	0	39	P2	
7591	G	6.3	20	86	23	P2	
7643	R	6.3	20	78	28	P6, P2	
7643	B	6.3	25	52	28	P2	
7683	R	6.3	0	46	4	P6, P5, P3	
7687	R	6.3	18	75	28	P6, P2	
7687	B	6.3	30	0	28	P2	
7693	R	6.3	19	0	11	P2	
7694	R	6.3	32	83	11	P1	
7695	R	50	60	65	5	P2	
7716	G	12.6	30	80	19	P2	
7716	G	12.6	17	5	19	P6, P1	
7717	R	6.3	31	0	11	P2	
7719	R	12.6	32	30	27	P2	*
7724	G	12.6	0	0	17	P1	350 Min
7724	B	12.6	0	45	5	P5, P3	Short normal Pos. 2
7724	R	12.6	0	45	36	P6, P5, P3	
7728	R	12.6	16	45	27	P1	* D. T.
7729	R	12.6	10	0	27	P1	* D. T.
7730	R	12.6	21	89	27	P1	* D. T.
7731	R	6.3	20	57	28	P6, P2	
7731	B	6.3	14	78	28	P2	
7732	R	6.3	15	83	11	P2	
7733	R	12.6	18	89	26	P2	
7738	R	6.3	10	85	9	P2	
7754	R	6.3	60	65	5	P2	
7802	R	6.3	45	87	30	P2	D. T.
7803	R	6.3	24	86	27	P2	D. T.
7867	G	6.3	61	68	12	P2	Cap = P
7868	G	6.3	20	87	3	P2	
7895	R	6.3	20	65	39	P2	
7898	R	12.6	10	76	27	P2	* D. T.
8016	B	1.1	0	34	23	P6, P3	Cap = P
8068	G	6.3	31	47	12	P2	Cap = P
8077	R	12.6	20	87	26	P2	
8084	R	12.6	23	87	11	P2	
8102	R	12.6	17	82	5	P2	
8102	G	12.6	14	84	27	P2	
8113	R	6.3	26	61	11	P2	
8136	R	6.3	18	85	11	P2	
8203	R	6.3	31	47	39	P2	
8334	R	6.3	12	88	9	P2	
8393	R	12.6	30	56	39	P2	
8417	R	6.3	28	92	23	P2	

CV540	G	12.6	10	0	30	P1	D. T. 350 Min
CV541	B	1.1	0	34	23	P6, P3	Cap = P
CV543	G	12.6	0	45	23	P5, P3	
CV544	G	12.6	0	45	23	P5, P3	
CV546	R	12.6	0	45	30	P6, P5, P3	
CV546	G	12.6	0	45	1	P5, P3	
CV547	R	12.6	0	45	30	P6, P5, P3	
CV547	G	12.6	0	45	1	P5, P3	
CV551	R	25	43	77	23	P2	
CV552	R	25	43	77	23	P2	
CV553	R	25	43	77	23	P2	
CV561	R	35	48	45	23	P2	
CV562	R	35	48	45	23	P2	
CV567	R	35	0	63	12	P6, P3	
CV568	R	35	0	63	12	P6, P3	
CV571	R	50	46	72	23	P2	
CV572	R	6.3	0	63	12	P3	
CV572	R	6.3	0	63	23	P3	
CV573	R	6.3	0	63	12	P3	
CV573	R	6.3	0	63	23	P3	
CV574	R	6.3	0	63	12	P3	
CV574	R	6.3	0	63	23	P3	
CV575	R	5	0	63	1	P3	D. T.
CV578	R	6.3	54	69	23	P1	Cap = G
CV579	R	6.3	54	69	23	P1	Cap = G
CV580	R	6.3	54	69	23	P1	Cap = G
CV581	R	6.3	22	86	23	P1	
CV586	R	6.3	20	80	23	P2	
CV590	G	6.3	0	45	23	P5, P3	
CV591	G	6.3	0	45	23	P5, P3	
CV592	G	6.3	0	45	23	P5, P3	
CV593	R	5	0	63	1	P3	D. T.
CV594	G	6.3	0	60	12	P3	Short normal Pos. 2
CV595	G	6.3	0	60	12	P3	Short normal Pos. 2
CV654	R	6.3	39	82	23	P1	
CV655	R	6.3	25	87	23	P1	
CV657	R	6.3	35	48	23	P1	Cap = G
CV658	R	6.3	25	69	23	P1	
CV660	G	6.3	0	44	23	P5, P3	
CV661	G	6.3	0	44	23	P5, P3	
CV664	G	6.3	17	87	20	P1	
CV665	R	6.3	46	56	11	P1	
CV692	R	---	0	36	1	P4	D. T.
CV694	G	12.6	0	60	12	P3	Short normal Pos. 2
CV697	G	12.6	0	45	23	P5, P3	
CV698	G	12.6	0	45	23	P5, P3	
CV700	R	12.6	0	45	30	P6, P5, P3	
CV700	G	12.6	0	45	1	P6, P5	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
CV703	R	12.6	0	60	12	P6, P3	Cap = G
CV706	R	6.3	43	73	23	P1	Cap = G
CV715	R	6.3	5	0	23	P1	Cap = G
CV717	R	5	0	63	1	P3	D. T.
CV728	R	1.4	29	0	23	P1	♦ Cap = G
CV729	R	5	0	63	1	P3	D. T.
CV731	R	6.3	25	87	23	P1	
CV732	G	6.3	0	63	1	P3	
CV747	G	6.3	0	44	23	P5, P3	
CV755	R	1.4	55	41	23	P1	♦
CV756	R	1.4	55	41	23	P1	♦
CV760	R	1.4	80	0	23	P1	♦ Cap = K
CV764	R	2	57	0	23	P1	♦ Cap = G
CV765	R	2	70	0	23	P1	♦ Cap = K
CV768	R	2	37	86	23	P1	♦
CV771	R	2	62	76	23	P1	♦
CV774	R	1.4	47	0	23	P1	♦ 350 Min
CV782	R	1.4	48	72	22	P1	♦
CV783	G	1.4	73	75	22	P1	♦
CV785	R	1.4	43	0	22	P1	♦
CV786	R	1.4	60	58	23	P1	♦
CV803	B	2.5	0	34	23	P6, P3	Cap = P
CV804	B	2.5	0	34	23	P6, P3	Cap = P
CV818	G	3	53	82	22	P1	♦
CV819	R	3	48	23	23	P1	
CV820	G	3	73	70	22	P1	♦
CV841	R	5	0	63	1	P3	D. T.
CV842	R	5	0	63	1	P3	D. T.
CV844	R	6.3	0	0	23	P1	300 Min
CV845	R	6.3	0	0	23	P1	300 Min
CV846	G	6.3	0	44	23	P5, P3	
CV848	R	6.3	20	53	11	P2	
CV849	G	6.3	0	44	23	P5, P3	
CV850	R	6.3	27	75	11	P2	
CV851	R	6.3	58	57	23	P2	♦
CV852	G	6.3	17	0	20	P2	
CV858	G	6.3	17	62	21	P2	D. T.
CV859	R	6.3	0	60	12	P6, P3	Cap = G
CV860	R	6.3	21	0	23	P1	Cap = G
CV861	R	6.3	21	0	23	P1	Cap = G
CV862	R	6.3	24	86	23	P1	
CV866	G	6.3	0	45	23	P5, P3	
CV867	R	6.3	0	45	30	P6, P5, P3	
CV867	G	6.3	0	45	1	P5, P3	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
CV1862	G	6.3	30	44	11	P2	
CV1863	R	5	0	63	1	P3	D. T.
CV1864	R	5	0	63	1	P3	D. T.
CV1865	G	6.3	35	88	28	P1	
CV1873	G	6.3	0	44	23	P5, P3	
CV1876	G	6.3	0	44	23	P5, P3	
CV1882	G	6.3	0	45	23	P5, P3	
CV1886	B	6.3	10	85	34	P6, P2	
CV1902	R	6.3	54	69	23	P1	Cap = G
CV1908	R	6.3	5	0	23	P1	Cap = G
CV1909	R	6.3	5	0	23	P1	Cap = G
CV1910	R	6.3	5	0	23	P1	Cap = G
CV1911	R	6.3	25	87	23	P1	
CV1912	R	6.3	25	87	23	P1	
CV1926	R	6.3	42	81	23	P1	
CV1928	R	12.6	25	43	11	P2	
CV1931	R	6.3	42	81	23	P1	
CV1932	R	6.3	25	90	23	P1	
CV1933	R	6.3	25	90	23	P1	
CV1934	R	6.3	25	90	23	P1	
CV1935	R	6.3	35	48	23	P1	Cap = G
CV1936	R	6.3	35	48	23	P1	Cap = G
CV1937	R	6.3	35	48	23	P1	Cap = G
CV1938	R	6.3	30	90	23	P1	
CV1940	R	6.3	30	90	23	P1	
CV1944	R	6.3	0	60	12	P6, P3	Cap = G
CV1945	R	6.3	0	60	12	P6, P3	Cap = G
CV1946	R	6.3	0	60	12	P6, P3	Cap = G
CV1947	R	6.3	25	69	23	P2	
CV1948	R	6.3	25	69	23	P2	
CV1950	R	6.3	39	82	23	P1	Cap = G
CV1951	R	6.3	39	82	23	P1	Cap = G
CV1955	B	6.3	10	82	9	P2	
CV1959	R	50	47	62	20	P2	
CV1961	R	12.6	21	42	11	P2	
CV1966	B	6.3	37	10	12	P2	350 Min
CV1967	B	6.3	37	10	12	P2	350 Min
CV1969	G	6.3	10	0	30	P1	D. T. 350 Min
CV1970	G	6.3	10	0	30	P1	D. T. 350 Min
CV1971	R	1.4	43	0	22	P1	♦
CV1972	B	6.3	10	0	1	P2	*
CV1973	B	6.3	10	0	1	P2	*
CV1974	R	6.3	40	80	23	P1	Cap = G
CV1975	R	6.3	40	80	23	P1	Cap = G

CV873	R	6.3	0	63	12	P3	
CV873	R	6.3	0	63	23	P3	
CV910	R	6.3	54	69	23	P1	Cap = G
CV917	R	12.6	35	45	23	P1	Cap = G
CV918	R	12.6	34	85	23	P1	Cap = G
CV919	B	12.6	10	0	1	P2	*
CV920	B	12.6	10	0	1	P2	*
CV922	G	12.6	0	60	12	P3	Short normal Pos. 2
CV923	G	12.6	0	45	23	P5, P3	
CV924	R	12.6	10	0	30	P1	D. T.
CV925	R	12.6	31	87	30	P1	D. T.
CV938	R	25	0	0	23	P1	
CV939	R	25	74	90	23	P1	
CV995	G	6.3	0	45	20	P5, P3	
CV1067	R	6.3	25	90	23	P1	
CV1071	R	5	0	63	1	P3	D. T.
CV1073	R	6.3	5	0	23	P1	Cap = G
CV1074	R	6.3	35	48	23	P1	Cap = G
CV1075	R	6.3	25	69	23	P2	
CV1186	R	6.3	25	87	23	P1	
CV1268	R	5	0	63	1	P3	D. T.
CV1471	R	6.3	33	86	23	P2	
CV1649	R	6.3	22	86	23	P1	
CV1730	R	6.3	25	69	23	P2	
CV1755	R	12.6	46	88	23	P1	
CV1757	R	6.3	35	50	11	P1	
CV1758	R	1.4	40	48	22	P1	♦
CV1762	R	6.3	40	85	11	P1	
CV1763	G	6.3	15	89	38	P2	
CV1784	G	6.3	0	45	23	P5, P3	
CV1800	R	1.4	77	0	23	P1	♦ Cap = K
CV1802	R	1.4	77	0	23	P1	♦ Cap = K
CV1803	R	1.4	63	79	23	P1	♦
CV1805	R	1.4	63	79	23	P1	♦
CV1806	R	2	57	0	23	P1	♦ Cap = G
CV1817	R	1.4	51	0	23	P1	♦
CV1819	R	6.3	35	78	23	P1	
CV1824	R	1.4	50	86	23	P1	♦
CV1826	R	1.4	50	86	23	P1	♦
CV1829	R	1.4	60	58	23	P1	♦
CV1830	B	1.1	0	34	23	P6, P3	Cap = P
CV1846	R	5	0	63	1	P3	D. T.
CV1849	R	5	0	63	1	P3	D. T.
CV1851	B	5	0	63	30	P3	D. T.
CV1852	B	5	0	63	30	P3	D. T.
CV1854	R	5	0	63	1	P3	D. T.
CV1856	R	5	0	63	1	P3	D. T.
CV1857	B	5	0	63	30	P3	D. T.

CV1978	G	6.3	0	60	12	P3	Short normal Pos. 2
CV1981	G	6.3	0	45	23	P5, P3	
CV1982	G	6.3	0	45	23	P5, P3	
CV1984	R	6.3	10	0	30	P1	D. T.
CV1985	R	6.3	10	0	30	P1	D. T.
CV1986	R	6.3	31	87	30	P1	D. T.
CV1988	R	6.3	31	87	30	P1	D. T.
CV1990	R	6.3	0	45	30	P6, P5, P3	
CV1990	G	6.3	0	45	1	P5, P3	
CV1991	R	6.3	0	45	30	P6, P5, P3	
CV1991	G	6.3	0	45	1	P5, P3	
CV1993	G	6.3	0	44	23	P5, P3	
CV1995	R	6.3	0	45	30	P6, P5, P3	
CV1995	G	6.3	0	45	1	P5, P3	
CV1996	R	6.3	0	45	30	P6, P5, P3	
CV1996	G	6.3	0	45	1	P5, P3	
CV2000	B	6.3	10	82	9	P2	
CV2001	B	6.3	10	82	9	P2	
CV2004	R	6.3	0	49	21	P5, P3	D. T.
CV2005	R	6.3	0	49	21	P5, P3	D. T.
CV2007	R	12.6	21	89	27	P1	* D. T.
CV2010	G	6.3	17	62	21	P2	D. T.
CV2011	R	12.6	21	89	27	P1	* D. T.
CV2016	R	12.6	16	45	27	P2	* D. T.
CV2020	R	6.3	27	75	11	P2	
CV2021	R	6.3	0	63	10	P3	D. T.
CV2023	B	6.3	10	10	9	P2	
CV2024	R	6.3	21	78	11	P2	
CV2026	R	6.3	25	43	11	P2	
CV2135	R	6.3	32	80	26	P1	
CV2235	G	6.3	0	60	28	P6, P3	Cap = P
CV2370	R	6.3	15	66	5	P2	
CV2500	R	35	0	63	12	P3	
CV2507	R	1.4	29	20	22	P1	♦
CV2521	R	6.3	20	83	11	P2	
CV2522	R	6.3	28	58	11	P2	
CV2523	R	6.3	95	91	30	P1	D. T.
CV2524	R	6.3	21	42	11	P2	
CV2526	G	6.3	10	0	10	P1	
CV2526	B	6.3	10	40	10	P5, P3	D. T.
CV2527	G	6.3	0	60	27	P6, P3	
CV2530	R	50	0	63	12	P3	
CV2534	R	50	46	72	23	P2	
CV2726	G	6.3	18	86	36	P6, P2	
CV2742	R	1.4	40	48	22	P1	♦
CV2748	R	5	0	63	1	P3	D. T.
CV2769	G	6.3	0	48	20	P5, P3	
CV2795	R	1.4	40	48	22	P1	♦

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Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
CV2796	R	6.3	25	69	23	P2	
CV2817	R	6.3	25	69	23	P2	
CV2821	R	6.3	31	87	30	P1	D. T.
CV2835	R	5	0	63	1	P3	D. T.
CV2842	G	6.3	17	0	20	P2	
CV2843	G	6.3	17	62	21	P2	D. T.
CV2844	R	6.3	0	63	10	P3	D. T.
CV2854	R	6.3	38	78	11	P2	
CV2877	R	6.3	27	75	11	P2	
CV2882	R	6.3	0	49	21	P5, P3	D. T.
CV2883	G	6.3	30	44	11	P2	
CV2884	R	6.3	28	58	11	P2	
CV2937	G	6.3	18	0	10	P1	
CV2937	B	6.3	18	40	10	P5, P3	D. T.
CV2975	G	6.3	20	88	26	P2	
CV2983	R	3	53	82	22	P1	♦
CV2984	R	6.3	95	91	30	P1	D. T.
CV2990	R	6.3	21	42	11	P2	
CV2992	R	5	0	63	1	P3	D. T.
CV3508	R	12.6	16	45	27	P2	* D. T.
CV3616	R	6.3	0	20	38	P5, P3	
CV3618	R	6.3	25	69	23	P2	
CV3619	G	6.3	0	45	23	P5, P3	
CV3627	R	6.3	31	87	30	P1	D. T.
CV3650	R	12.6	14	77	27	P1	* D. T.
CV3651	G	12.6	0	60	12	P3	Short normal Pos. 2
CV3666	R	12.6	0	45	30	P6, P5, P3	
CV3666	G	12.6	0	45	1	P5, P3	
CV3668	B	12.6	37	10	12	P2	350 Min
CV3699	G	6.3	0	45	23	P5, P3	
CV3705	R	6.3	10	0	30	P1	D. T.
CV3734	R	6.3	0	63	12	P3	
CV3734	R	6.3	0	63	23	P3	
CV3808	R	6.3	41	40	9	P2	
CV3899	R	6.3	25	69	23	P2	
CV3900	R	12.6	35	77	27	P1	* D. T.
CV3908	R	6.3	19	0	11	P2	
CV3909	R	6.3	32	83	11	P1	
CV3912	R	1.4	41	0	22	P1	♦ 350 Min
CV3924	G	6.3	0	44	23	P5, P3	
CV3927	R	12.6	0	60	12	P6, P3	Cap = G
CV4003	R	12.6	21	89	27	P1	* D. T.
CV4004	R	12.6	10	0	27	P1	* D. T.
CV4005	R	6.3	0	63	10	P3	D. T.

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
E92CC	G	6.3	16	75	21	P2	
E95F	R	6.3	27	75	11	P2	
E99F	R	6.3	32	83	11	P1	
E130L	R	6.3	0	63	12	P6, P3	
E180CC	R	12.6	19	72	27	P2	* D. T.
E188CC	R	6.3	24	86	27	P2	D. T.
EAA91	R	6.3	0	49	21	P5, P3	D. T.
EABC80	G	6.3	20	5	17	P6, P1	
EABC80	B	6.3	20	40	17	P5, P3	
EABC80	B	6.3	20	49	17	P6, P5, P3	
EABC80	R	6.3	20	49	17	P6, P5, P3	Short normal Pos. 1
EB91	R	6.3	0	49	21	P5, P3	D. T.
EBC81	B	6.3	22	20	18	P6, P1	
EBC81	B	6.3	0	40	34	P5, P3	
EBC90	G	6.3	18	0	10	P1	
EBC90	B	6.3	18	40	10	P5, P3	D. T.
EBC91	G	6.3	10	0	10	P1	
EBC91	B	6.3	10	40	10	P5, P3	
EBF80	B	6.3	19	35	28	P2	
EBF80	R	6.3	0	45	26	P5, P3	
EBF83	G	6.3	0	45	27	P6, P5, P3	
EBF83	B	6.3	0	40	34	P5, P3	
EBF83	G	6.3	0	40	36	P6, P5, P3	
EBF89	B	6.3	36	0	28	P2	250 Min
EBF89	G	6.3	0	45	28	P5, P3	
EBF89	G	6.3	0	45	27	P5, P3	
EC80	B	6.3	10	85	34	P6, P2	
EC81	G	6.3	35	88	28	P1	
EC86	R	6.3	12	90	27	P6, P2	
EC90	G	6.3	17	0	20	P2	
EC91	G	6.3	10	80	10	P2	
EC92	G	6.3	16	45	20	P2	
EC94	R	6.3	45	42	9	P2	
EC95	R	6.3	13	81	8	P2	
EC97	R	6.3	15	84	8	P2	
EC900	R	6.3	19	82	11	P2	
ECC33	R	6.3	31	87	30	P1	D. T.
ECC81	R	12.6	16	45	27	P2	* D. T.
ECC82	R	12.6	21	89	27	P1	* D. T.
ECC83	R	12.6	10	0	27	P1	* D. T.
ECC84	R	6.3	28	62	6	P2	
ECC84	B	6.3	0	45	4	P5, P3	
ECC85	R	6.3	10	77	27	P2	D. T.
ECC88	R	6.3	24	86	27	P2	D. T.

CV4006	R	6.3	32	80	26	P1	
CV4007	R	6.3	0	49	21	P5, P3	D. T.
CV4009	R	6.3	25	43	11	P2	
CV4010	R	6.3	27	75	11	P2	
CV4011	R	6.3	28	58	11	P2	
CV4012	R	6.3	21	78	11	P2	
CV4015	B	6.3	10	10	9	P2	
CV4016	R	12.6	21	89	27	P1	* D. T.
CV4019	G	6.3	30	44	11	P2	
CV4023	R	6.3	21	42	11	P2	
CV4024	R	12.6	16	45	27	P2	* D. T.
CV4025	R	6.3	0	49	21	P5, P3	D. T.
CV4026	R	5	0	63	1	P3	D. T.
CV4027	R	5	0	63	1	P3	D. T.
CV4031	G	6.3	17	62	21	P2	D. T.
CV4032	R	12.6	21	89	27	P1	* D. T.
D77	R	6.3	0	49	21	P5, P3	D. T.
DAF92	R	1.4	41	0	22	P1	♦ 350 Min
DAF92	G	1.4	0	40	22	P6,P5,P3	
DC90	R	1.4	39	64	22	P1	♦
DDR7	B	6.3	31	40	11	P2	
DF91	R	1.4	43	0	22	P1	♦
DF92	R	1.4	40	48	22	P1	♦
DF96	R	1.4	38	0	22	P1	♦
DF904	R	1.4	29	20	22	P1	♦
DH77	G	6.3	18	0	10	P1	
DH77	B	6.3	18	40	10	P5, P3	D. T.
DK91	R	1.4	48	72	22	P1	
DL92	G	3	73	70	22	P1	♦
DL94	R	3	53	82	22	P1	♦
DL95	G	3	53	82	22	P1	♦
DL96	R	3	57	73	22	P1	♦
DP61	R	6.3	27	75	11	P2	
DY86	R	1.4	0	37	6	P6, P3	Cap = P
DY87	R	1.4	0	37	6	P6, P3	Cap = P
E80CC	R	12.6	16	0	27	P2	* D. T.
E80CF	R	6.3	15	75	28	P6, P2	
E80CF	B	6.3	30	41	28	P2	
E80L	R	6.3	16	85	26	P2	
E81CC	R	12.6	16	45	27	P2	* D. T.
E82CC	R	12.6	21	89	27	P1	* D. T.
E83CC	R	12.6	10	0	27	P1	* D. T.
E84L	G	6.3	20	88	26	P2	
E88CC	R	6.3	24	86	27	P2	D. T.
E90CC	G	6.3	26	68	21	P2	D. T.
E90F	R	6.3	19	0	11	P2	
E91AA	R	6.3	0	49	21	P5, P3	D. T.
E91H	G	6.3	43	85	11	P1	

ECC91	G	6.3	17	62	21	P2	D. T.
ECC186	R	12.6	21	89	27	P1	* D. T.
ECC189	R	6.3	25	80	27	P2	D. T.
ECC230	R	6.3	95	91	30	P1	D. T.
ECC801S	R	12.6	16	45	27	P2	* D. T.
ECF80	R	6.3	20	78	28	P6, P2	
ECF80	B	6.3	25	52	28	P2	
ECF82	R	6.3	20	57	28	P6, P2	
ECF82	B	6.3	14	78	28	P2	
ECF83	R	6.3	50	88	6	P1	
ECF83	G	6.3	50	56	27	P1	
ECF86	R	6.3	0	45	16	P5, P3	
ECF86	G	6.3	16	89	19	P2	
ECF200	R	6.3	20	90	7	P2	
ECF200	R	6.3	10	47	7	P6, P2	
ECF201	R	6.3	23	81	7	P2	
ECF201	R	6.3	28	47	7	P6, P2	
ECF802	R	6.3	23	39	28	P6, P2	
ECF802	B	6.3	14	39	28	P2	
ECH83	G	6.3	0	45	27	P6, P5, P3	
ECH83	G	6.3	0	45	17	P6, P5, P3	
ECH84	G	6.3	0	45	27	P6, P5, P3	
ECH84	G	6.3	0	45	17	P6, P5, P3	
ECL80	B	6.3	29	80	17	P6, P1	
ECL80	B	6.3	0	45	34	P6, P5, P3	
ECL82	B	6.3	0	63	28	P3	Short normal Pos. 2
ECL82	B	6.3	0	63	19	P6, P3	
ECL84	G	6.3	15	40	27	P6, P2	
ECL84	G	6.3	15	88	17	P2	
ECL85	G	6.3	47	78	27	P2	
ECL85	R	6.3	17	70	27	P6, P2	
ECL86	G	6.3	10	10	17	P6, P1	250 Min
ECL86	B	6.3	0	45	19	P5, P3	Jumper K to G. Short normal Pos. 2
EF80	R	6.3	17	85	26	P2	
EF85	R	6.3	30	51	26	P2	
EF89	R	6.3	29	37	26	P2	
EF91	B	6.3	10	82	9	P2	
EF92	B	6.3	10	10	9	P2	
EF93	R	6.3	25	43	11	P2	
EF94	R	6.3	21	42	11	P2	
EF95	R	6.3	27	75	11	P2	
EF97	G	6.3	0	48	20	P5, P3	
EF98	G	6.3	0	47	20	P5, P3	
EF183	R	6.3	28	87	26	P2	
EF184	R	6.3	17	92	26	P2	
EF800	R	6.3	17	85	26	P2	
EF804	B	6.3	0	45	34	P6, P5, P3	

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Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
EF804S	B	6.3	0	45	34	P6,P5,P3	
EFL200	G	6.3	21	81	7	P2	
EFL200	G	6.3	24	90	7	P6, P2	
EH90	G	6.3	43	67	11	P1	
EK90	R	6.3	21	78	11	P2	
EL34	R	6.3	33	86	23	P2	
EL37	R	6.3	20	80	23	P2	
EL38	R	6.3	23	88	23	P2	Cap = P
EL83	G	6.3	18	86	36	P6, P2	
EL84	G	6.3	20	88	26	P2	
EL86	G	6.3	28	78	26	P2	
EL90	G	6.3	30	44	11	P2	
EL91	B	6.3	31	40	11	P2	
EL95	G	6.3	26	62	11	P2	
EL500	R	6.3	0	63	36	P6, P3	Cap = P Use SA-8 Adapter
EY80	B	6.3	0	60	34	P6, P3	
EY81	G	6.3	0	63	17	P3	Cap = K
EY84	G	6.3	0	60	28	P6, P3	Cap = P
EY86	R	6.3	0	37	6	P6, P3	Cap = P
EY88	G	6.3	0	63	19	P3	Cap = K Short normal Pos. 2
EY91	R	6.3	0	63	10	P3	
EZ35	R	6.3	0	63	12	P3	
EZ35	R	6.3	0	63	23	P3	
EZ80	R	6.3	0	63	27	P6, P3	
EZ80	G	6.3	0	63	27	P3	
EZ81	R	6.3	0	63	27	P6, P3	
EZ81	G	6.3	0	63	27	P3	
EZ90	R	6.3	0	63	10	P3	D. T.
GZ32	R	5	0	63	1	P3	D. T.
GZ33	R	5	0	63	1	P3	D. T.
GZ34	R	5	0	63	1	P3	D. T.
H-1112	R	2	38	0	39	P2	
HABC80	G	20	10	0	17	P6, P1	350 Min
HABC80	B	20	10	49	17	P5, P3	D. T.
HABC80	R	20	10	49	17	P6,P5,P3	Short normal Pos. 1
HBC90	B	12.6	18	40	10	P5, P3	D. T.
HCC85	R	17	12	82	27	P2	D. T.
HF94	R	12.6	21	42	11	P2	
HL90	G	20	30	44	11	P2	
HL94	R	25	30	84	20	P2	
HZ90	R	12.6	0	63	10	P3	D. T.
KT66	R	6.3	25	69	23	P2	

Tube Type	Color	Htr	Bias	Shunt	Socket	Press	Notations
U70	R	6.3	0	63	12	P3	
U70	R	6.3	0	63	23	P3	
U78	R	6.3	0	63	10	P3	D. T.
U709	R	6.3	0	63	27	P6, P3	
U709	G	6.3	0	63	27	P3	
UABC80	G	25	20	5	17	P6, P1	
UABC80	B	25	20	40	17	P5, P3	
UABC80	B	25	20	49	17	P6,P5,P3	
UABC80	R	25	20	49	17	P6,P5,P3	Short normal Pos. 1
UBF89	B	20	36	0	28	P2	250 Min
UBF89	G	20	0	45	28	P5, P3	
UBF89	G	20	0	45	27	P5, P3	
UC92	G	10	16	45	20	P2	
UCC85	R	25	10	77	27	P2	D. T.
UCL82	B	50	0	63	28	P3	Short normal Pos. 2
UCL82	B	50	0	63	19	P6, P3	
UF80	R	20	17	85	26	P2	
UF89	R	12.6	29	37	26	P2	
W77	B	6.3	10	10	9	P2	
XC95	R	2.5	13	81	8	P2	
XC97	R	2.5	15	84	8	P2	
XC900	R	2.5	19	82	11	P2	
XCC189	R	4.3	25	80	27	P2	D. T.
XCF80	R	4.3	20	78	28	P6, P2	
XCF80	B	4.3	25	52	28	P2	
XCF86	R	5.0	0	45	16	P5, P3	
XCF86	G	5.0	16	89	19	P2	
XCL82	B	7.5	0	63	28	P3	Short normal Pos. 2
XCL82	B	7.5	0	63	19	P6, P3	
XCL84	G	6.3	15	40	27	P6, P2	
XCL84	G	6.3	15	88	17	P2	
XCL85	G	10	47	78	27	P2	
XCL85	R	10	17	70	27	P6, P2	
XF80	R	3	17	85	26	P2	
XF85	R	3	30	51	26	P2	
XF183	R	3	28	87	26	P2	
XF184	R	3	17	92	26	P2	
XL84	G	7.5	20	88	26	P2	
XL500	R	12.6	0	63	36	P6, P3	Cap = P Use SA-8 Adapter
XY88	G	17	0	63	19	P3	Cap = K Short normal Pos. 2
YC95	R	3	13	81	8	P2	
YC97	R	3	15	84	8	P2	

KT88	R	6.3	36	79	23	P2	
LC900	R	3	19	82	11	P2	
LCF80	R	6.3	20	72	28	P6, P2	
LCF80	B	6.3	30	42	28	P2	
LCF802	R	6.3	23	39	28	P6, P2	
LCF802	B	6.3	14	39	28	P2	
LCL84	G	10	15	40	27	P6, P2	
LCL84	G	10	15	88	17	P2	
LL86	G	10	28	81	26	P2	
LL500	R	20	0	63	36	P6, P3	Cap = P Use SA-8 Adapter
LY88	G	20	0	63	19	P3	Cap = K Short normal Pos. 2
N77	B	6.3	31	40	11	P2	
PABC80	G	10	20	5	17	P6, P1	
PABC80	B	10	20	40	17	P5, P3	
PABC80	B	10	20	49	17	P6,P5,P3	
PABC80	R	10	20	49	17	P6,P5,P3	Short normal Pos. 1
PC86	R	4.3	12	90	27	P6, P1	
PC95	R	3.0	13	81	8	P2	
PC97	R	4.3	15	84	8	P2	
PC900	R	4.3	19	82	11	P2	
PCC84	R	7.5	28	62	6	P2	
PCC84	B	7.5	0	45	4	P5, P3	
PCC85	R	10	10	77	27	P2	D. T.
PCC88	R	7.5	24	86	27	P2	D. T.
PCC189	R	7.5	25	80	27	P2	D. T.
PCF80	R	10	16	78	28	P6, P2	
PCF80	B	10	28	52	28	P2	
PCF82	R	10	20	57	28	P6, P2	
PCF82	B	10	14	78	28	P2	
PCF86	R	7.5	0	45	16	P5, P3	
PCF86	G	7.5	16	89	19	P2	
PCL82	B	12.6	0	63	28	P3	Short normal Pos. 2
PCL82	B	12.6	0	63	19	P6, P3	
PCL85	G	20	47	78	27	P2	
PCL85	R	20	17	70	27	P6, P2	
PL82	G	17	43	80	26	P2	
PL83	G	12.6	18	86	36	P6, P2	
PL84	G	12.6	30	81	26	P2	
PL500	R	25	0	63	36	P6, P3	Cap = P Use SA-8 Adapter
PY80	B	20	0	60	34	P6, P3	
PY81	G	17	0	63	17	P3	Cap = K
PY82	B	20	0	60	34	P6, P3	
PY83	G	20	0	63	17	P3	Cap = K
PY88	G	25	0	63	19	P3	Cap = K Short normal Pos. 2
YCC189	R	5	25	80	27	P2	D. T.
YF183	R	4.3	28	87	26	P2	
YF184	R	4.3	17	92	26	P2	
Z77	B	6.3	10	82	9	P2	

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