

TUBE DATA

for



TUBE TESTERS

Readings in Micromhos

MODELS 510X-530-550X

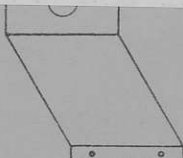
PRICE \$1.00

The Hickok Electrical Instrument Co.

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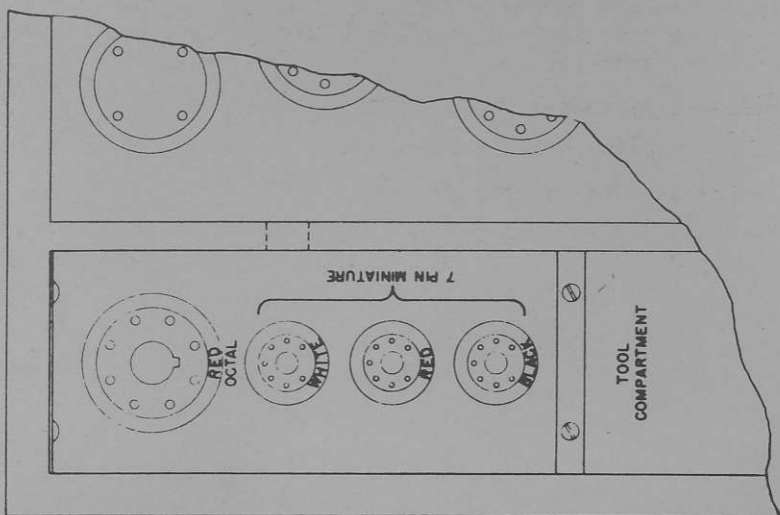
This data book is used for all testers which utilize the A and B selectors. It is the only available tube data for the following testers. Models AC51, 51X, T53, I-177, 510X, 530, 531, 540, 550X, 560, 560SPL and KS9237. Roll charts are no longer made for the above mentioned models.



MAKE A PANEL FROM .030" TO .040" ALUMINUM TO FIT IN TOOL COMPARTMENT AND MOUNT SOCKETS NEEDED.

WIRE SOCKETS TO MAIN TESTER BY A CABLE AND PASSING CABLE THROUGH HOLE OR SLOT IN PARTITION

DO NOT MAKE CABLE TOO SHORT, TESTER CAN BE LIFTED FROM CASE REPAIRS.



See inside of back cover for wiring diagram

NOTE

RED following tube type signifies that tube is inserted in Red miniature socket.

IVORY signifies Ivory miniature socket.

BLK signifies Black miniature socket.

RED-O signifies Red Octal socket.

MODEL I-177 and 545 TUBE TESTERS

RED-O following a tube type signifies tube is inserted in socket G. All other octal base tubes are inserted in socket E.

BLK — signifies miniature socket H.

RED— signifies miniature socket K.

IVORY signifies miniature socket L.

All octal tubes listed in this Data Book are to be inserted in socket F.

HICKOK TUBE DATA FOR

MODEL 510X-530-550X

TUBE TESTERS

NOTE: A Star (*) appearing in Notations Column indicates that the PLATE CAP of the tube should be connected to the UPPER LEFT CONTACT of the 6-pin socket.

Tube Type	Select. A	Fil. B	Potent. Volts L	Mut. R	Press Cond.	Notations
00A	2	10	5	23	27	666 Ampl.
01A	2	10	5	26	39	725 Ampl.
0A2 Ivory	8	7	OFF	30	20	 Gas No. 1
0A3	7	1	BLST	40	0	 Gas No. 1 Short on 4-5
0A4G	10	2	....	50	..	 OZ4 Button
0B2 Ivory	2	9	OFF	32	0	 Gas No. 1 Short on 1-2-3-4-5
0B3	7	1	BLST	50	0	 Gas No. 1 Short on 4-5
0C3	7	1	BLST	50	0	 Gas No. 1 Short on 4-5
0D3	7	1	BLST	35	0	 Gas No. 1 Short on 4-5
0Y4	8	4	BLST	70	0	 OZ4 Button Short on 1-2-3-4
0Z4	4	8	....	..	..	.... Check for Shorts
0Z4	2	9	....	60	0	 OZ4 Button
0Z4	10	2	....	60	0	 OZ4 Button
1A3 Blk	10	5	1.5	0	0	 Diode Also Press 117N7 But. Short on 2-3-4-5
1A4	2	5	2	27	24	750 Ampl.
1A5G	8	5	1.5	32	35	800 Ampl.
1A6	1	5	2	0	29	500 Ampl. Section
1A6	9	7	2	60	29	150 Ampl. Osc. Sec. Micromhos only. OK over 120 on 3000 scale.
1A7G	7	7	1.5	32	20	800 Ampl. Pent. Section
1A7G	12	7	1.5	60	38	300 Ampl. Osc. Sec. Micromhos only. OK over 240 on 3000 scale.
1AB5	6	2	1.1	50	0	1400 Ampl. Short on 1
1B4	2	5	2	18	29	640 Ampl.
1B5	7	8	2	60	23	475 Ampl. Micromhos only. OK over 380 on 3000 scale.
1B5	10	8	2	0	0	 Diode
1B5	12	3	2	0	0	 Diode
1B7G	7	7	1.5	32	20	800 Ampl. Pent. Section
1B7	12	7	1.5	60	38	300 Ampl. Osc. Sec. Micromhos only. OK over 240 on 3000 scale.
1C5G	8	5	1.5	55	36	1550 Ampl.
1C6	1	5	2	20	24	650 Ampl. Section
1C6	9	7	2	60	41	300 Ampl. Osc. Sec. Micromhos only. OK over 240 on 3000 scale.
1C7G	2	5	2	20	24	650 Ampl. Section
1C7	12	7	2	60	41	300 Ampl. Osc. Sec. Micromhos only. OK over 340 on 3000 scale.
1C21	7	2	OFF	60	0	 Gas No. 1
1D5G	2	5	2	27	24	750 Ampl.
1D7G	2	5	2	0	29	500 Ampl. Section
1D7G	12	7	2	60	35	200 Ampl. Osc. Sec. Micromhos only. OK over 160 on 3000 scale.

1A

ID

1B3G7 8 5 1.1 60 0 - 0Z4

Tube Type	Select. A	B	Fil. Volts	Potent. L	Mut. R	Cond.	Press	Notations
1D8GT	8	5	1.5	35	41	925	Ampl.	Pent. Section
1D8GT	12	5	1.5	11	9	575	Ampl.	Triode Section
1D8GT	6	1	1.5	0	0	....	Diode	Section
1E4G	7	5	1.5	32	30	825	Ampl.	
1E5G	2	5	2	18	29	640	Ampl.	
1E7G	8	8	2	45	17	1150	Ampl.	No. 1 Plate
1E7G	11	6	2	45	17	1150	Ampl.	No. 2 Plate
1F4	1	5	2	51	19	1400	Ampl.	
1F5G	8	5	2	51	19	1400	Ampl.	
1F6	1	7	2	20	21	650	Ampl.	Section
1F6	11	1	2	0	0	....	Diode	OK over 500
1F6	5	5	2	0	0	....	Diode	OK over 500
1F7G	1	5	2	20	21	650	Ampl.	Pentode Section
1F7G	4	5	2	0	0	....	Diode	
1F7G	7	1	2	0	0	....	Diode	
1G4G	7	5	1.5	33	40	825	Ampl.	
1G5G	8	5	2	54	30	1500	Ampl.	
1G6G	2	9	1.5	22	13	675	Ampl.	No. 1 Plate
1G6G	12	5	1.5	22	13	675	Ampl.	No. 2 Plate
1H4G	7	5	2	36	33	900	Ampl.	
1H5	8	5	1.5	60	13	275	Ampl.	Micromhos only. OK over 220 on 3000 scale.
1H5G	8	1	1.5	0	0	....	Diode	
1H6G	7	8	2	60	23	475	Ampl.	Section OK over 380
1H6G	10	8	2	0	0	....	Diode	
1H6G	11	3	2	0	0	....	Diode	
1J5G	8	5	2	37	37	950	Ampl.	
1J6G	8	8	2	42	12	1000	Ampl.	No. 1 Plate
1J6G	11	6	2	42	12	1000	Ampl.	No. 2 Plate
1L4 Blk	1	7	1.5	43	16	1025	Ampl.	Short on 4-5
1L6 Blk	1	5	1.5	32	18	825	Ampl.	Pent. Sect.
1L6 Blk	10	5	1.5	60	33	300	Ampl.	Osc. Sect. OK above 240
1LA4	6	2	1.5	32	35	800	Ampl.	
1LA6	6	3	1.5	32	20	800	Ampl.	Pentode Section
1LA6	2	8	1.5	60	38	300	Ampl.	Osc. Sec. Micromhos only. OK over 240 on 3000 scale.
1LB4	6	2	1.5	38	42	925	Ampl.	
1LB6	6	4	1.5	60	0	100	Ampl.	Hept. Sect. OK above 80.
1LB6	1	8	1.5	45	16	1500	Ampl.	Osc. Sect.
1LC5	6	2	1.5	30	24	775	Ampl.	Short on 4-5
1LC6	6	3	1.5	41	19	1000	Ampl.	Pentode Section
1LC6	2	8	1.5	10	19	550	Ampl.	Osc. Section
1LD5	6	2	1.5	14	23	600	Ampl.	Pentode Section
1LD5	4	9	1.5	0	0	....	Diode	
1LE3	6	2	1.5	50	0	1300	Ampl.	
1LF3	6	2	1.5	47	25	1200	Ampl.	
1LG5	6	2	1.5	30	24	775	Ampl.	Short on 4-5
1LH4	6	3	1.5	60	13	275	Ampl.	Osc. Sec. Micromhos only. OK over 220 on 3000 scale.
1LH4	10	10	1.5	0	0	....	Diode	Section
1LN5	6	2	1.5	28	9	750	Ampl.	Short on 4-5
1N5G	8	5	1.5	28	9	750	Ampl.	
1N6G	8	5	1.5	31	35	800	Ampl.	

Tube Type	Select. A B		Fil. Volts	Potent. L R	Mut. Cond.	Press	Notations
1P5G	8	5	1.5	31	9	800	Ampl.
1Q5G	8	5	1.5	61	30	2100	Ampl.
1R4	10	5	1.5	0	0	....	Diode
1R5 Blk	7	7	1.5	19	29	650	Ampl. No. 1 Grid. Short on 4-5
1R5 Blk	1	7	1.5	0	29	500	Ampl. No. 2 Grid
1S4 Blk	4	6	1.5	34	82	850	Diode Short on 3-4-5
1S5 Blk	6	6	1.5	9	28	525	Ampl. Pentode Section
1S5 Blk	3	6	1.5	0	0	....	Diode
1SA6GT	3	4	1.5	39	19	950	Ampl.
1SB6GT	2	5	1.5	20	22	650	Ampl.
1T4 Blk	1	7	1.5	28	28	750	Ampl. Short on 4-5
1T5GT	8	5	1.5	46	37	1150	Ampl.
1U4 Blk	2	5	1.5	35	12	900	Ampl. Short on 4-5
1U5 Blk	2	5	1.5	9	28	525	Ampl. Pentode Section
1U5 Blk	8	1	1.5	0	0	....	Diode Section
1V	1	5	6.3	40	0	....	Rect. Std.
1W4 Blk	2	5	1.5	40	37	925	Ampl.
2A3	2	10	2.5	67	55	3000	Ampl.
2A3H	2	10	2.5	67	55	3000	Ampl.
2A4G	7	5	2.5	76	*	....	Press Rect. Std. But. Tube Strikes at about 60.
2A5	8	5	2.5	60	24	2000	Ampl.
2A6	7	6	2.5	28	9	750	Ampl. Section
2A6	10	6	2.5	0	0	....	Diode
2A6	10	3	2.5	0	0	....	Diode
2A7	7	6	2.5	41	18	1000	Ampl. Section
2A7	10	6	2.5	60	25	400	Ampl. Osc. Sec. Micromhos only. OK over 320 on 3000 scale.
2B6	3	2	2.5	15	30	600	Ampl. Input Section
2B6	7	6	2.5	64	12	2500	Ampl. Output Sec. Short on 3
2B7	7	6	2.5	41	25	1000	Ampl. Pentode Section
2B7	10	6	2.5	0	0	....	Diode
2B7	10	3	2.5	0	0	....	Diode
2C4 Blk	11	8	2.5	76	..	....	Gas No. 1 Strikes at 66 on 'R.
2C21	10	3	6.3	51	14	1375	Ampl. Plate No. 1
2C21	3	3	6.3	51	14	1375	Ampl. Plate No. 2
2C22	7	2	6.3	67	11	3000	Ampl. *
2C26	7	2	6.3	54	15	1500	Ampl. *
2C45	2	10	7.5	62	30	2200	Ampl.
2D21 Red	9	9	6.3	40	40	....	Rect. Std. Reads in Green Short on 3
2E22	12	1	6.3	71	0	4000	Ampl. *
2E25	8	5	6.3	67	0	3000	Ampl. Connect Cap to Plate Contact of 5-pin Socket.
2V3G	7	1	2.5	0	0	....	Rect. Std. * OK over 1000
2W3	4	11	2.5	33	0	....	Rect. Std. Button
2X2	7	1	2.5	0	0	....	Rect. Std. OK over 1000*
2Z2	2	7	2.5	35	0	....	Rect. Std. Button
3A4 Blk	11	2	1.5	0	82	....	Diode Short on 3-4-5
3A5 Blk	8	8	3	60	12	2000	Ampl. Plate No. 1, Short on 4-5
3A5 Blk	6	2	3	60	18	2000	Ampl. Plate No. 2, Short on 4-5
3A8GT	8	5	2.5	28	10	750	Ampl. Pent. Sec. Short on 1
3A8GT	11	5	2.5	0	0	500	Ampl. Triode Section OK over 400
3A8GT	5	1	2.5	0	0	....	Diode Section

2A

3A

1X2 8 5 1.5 61 0 — 024

Tube Type	Select. A B		Fil. Volts	Potent. L R		Mut. Cond.	Press	Notations	
3B5GT	8	5	2.5	54	49	1500	Ampl.	Short on 4-5	
3B7	1	6	1.5	0	15	2000	Diode	Short on 4-5, Reads in Green Plate No. 1	
3B7	6	6	1.5	0	15	2000	Diode	Reads in Green, Plate 2	
3D6	6	2	1.5	61	30	2100	Ampl.	Short on 1	
3E6	6	2	3	55	16	1600	Ampl.	Short on 4-5	
3LE4	6	2	2.5	45	45	1100	Ampl.	Short on 1	
3LF4	6	2	2.5	53	34	1500	Ampl.	Short on 1	
3Q5GT	8	5	3	58	31	1800	Ampl.	Short on 4-5	
3S4 Blk	4	6	2.5	28	82	750	Diode	Short on 3-4-5	
3V4	1	7	3	56	28	1650	Ampl.	Short on 4-5	
4A6G	2	9	3	41	0	1000	Ampl.	No. 1 Plate	
4A6G	12	5	3	41	13	1000	Ampl.	No. 2 Plate	
5R4GY	4	11	5	40	0	....	Rect.	Std.	Plate No. 1
5R4GY	5	11	5	40	0	....	Rect.	Std.	Plate No. 2
5T4	4	11	5	40	0	....	Rect.	Std.	
5T4	5	11	5	40	0	....	Rect.	Std.	
5U4G	4	11	5	40	0	....	Rect.	Std.	
5U4G	5	11	5	40	0	....	Rect.	Std.	
5V4G	4	11	5	40	0	....	Rect.	Std.	
5V4G	5	11	5	40	0	....	Rect.	Std.	
5W4	4	11	5	33	0	....	Rect.	Std.	
5W4	5	11	5	33	0	....	Rect.	Std.	
5X3	2	7	5.0	26	0	....	Rect.	Std.	Plate No. 1
5X3	3	7	5.0	26	0	....	Rect.	Std.	Plate No. 2
5X4G	7	9	5	40	0	....	Rect.	Std.	
5X4G	12	4	5	40	0	....	Rect.	Std.	
5Y3	4	11	5	40	0	....	Rect.	Std.	
5Y3	5	11	5	40	0	....	Rect.	Std.	
5Y4G	7	9	5	35	0	....	Rect.	Std.	
5Y4G	12	4	5	35	0	....	Rect.	Std.	
5Z3	2	7	5	40	0	....	Rect.	Std.	
5Z3	3	7	5	40	0	....	Rect.	Std.	
5Z4	4	11	5	40	0	....	Rect.	Std.	
5Z4	5	11	5	40	0	....	Rect.	Std.	
6A3	2	10	6.3	67	55	3000	Ampl.		
6A4	1	5	6.3	60	23	2000	Ampl.		
6A5G	7	5	6.3	67	55	3000	Ampl.	Short on 4-5	
6A6	1	5	6.3	53	10	1500	Ampl.	No. 1 Plate	
6A6	12	5	6.3	53	10	1500	Ampl.	No. 2 Plate	
6A7	7	6	6.3	41	18	1000	Ampl.	Pentode Section	
6A7	10	6	6.3	60	25	400	Ampl.	Osc. Sec. Micromhos only. OK over 320 on 3000 Scale.	
6A8	7	7	6.3	41	18	1000	Ampl.	Pentode Section	
6A8	12	7	6.3	60	30	300	Ampl.	Osc. Sec. Micromhos only. OK over 240 on 3000 Scale.	
6AB4 Red	11	9	6.3	70	8	4000	Ampl.		
6AB6G	8	5	6.3	53	0	1450	Ampl.		
6AB7	4	2	6.3	69	0	3500	Ampl.		
6AC5G	8	5	6.3	40	0	1000	Ampl.		
6AC6G	8	5	6.3	63	0	2400	Ampl.		
6AC7	4	2	6.3	71	10	3500	Ampl.		

5R

6A

Tube Type	Select. A	B	Fil. Volts	Potent. L	R	Mut. Cond.	Press	Notations
6AD5	7	5	6.3	43	10	1000	Ampl.	
6AD7G	8	5	6.3	60	24	2000	Ampl.	Pentode Section
6AD7	5	5	6.3	60	65	325	Diode	Triode Sec. Micromhos only. OK over 260 on 3000 Scale.
6AE5G	7	5	6.3	47	56	1200	Ampl.	
6AE6G	7	5	6.3	34	0	850	Ampl.	No. 1 Plate
6AE6G	10	5	6.3	28	0	750	Ampl.	No. 2 Plate
6AE7GT	1	8	6.3	54	27	1500	Ampl.	No. 1 Cathode Short on 2-3
6AE7GT	8	8	6.3	54	27	1500	Ampl.	No. 2 Cathode
6AF5G	8	5	6.3	53	42	1500	Ampl.	
6AG5 Red	1	9	6.3	67	0	3000	Ampl.	Short on 4-5
6AG7	4	2	6.3	72	15	5000	Ampl.	
6AH6 Red	7	9	6.3	72	10	5000	Ampl.	
6AH7GT	7	9	6.3	60	35	2000	Press	Gas No. 1 Short on 2-3
6AH7GT	11	9	6.3	60	35	2000	Press	Gas No. 1 Short on 3-4-5
6AJ5 Red	1	9	6.3	65	22	2750	Ampl.	Short on 4-5
6AK5 Red	1	9	6.3	55	20	1500	Ampl.	Short on 4-5
6AK6 Red	7	9	6.3	61	19	2100	Ampl.	
6AL5 Red	12	1	6.3	50	0	....	Diode	Reads in Green
6AL5 Red	1	1	6.3	50	0	....	Diode	Reads in Green, Short on 2
6AL6G	8	5	6.3	73	19	5000	Ampl.	Connect Cap to Plate Contact of 5-pin Socket.
6AL7	1	8	6.3	60	Vary	....	Ampl.	"R" Pot. Controls Left Pattern.
6AL7	2	8	6.3	60	Vary	....	Ampl.	"R" Pot. Controls Right Pattern
6AL7	7	7	6.3	60	Vary	....	Ampl.	"R" Pot. Controls Both Patterns
6AN5 Red	1	9	6.3	75	9	8000	Ampl.	Short on 4-5
6AQ5 Ivory	8	5	6.3	70	17	3700	Ampl.	
6AQ6 Red	12	2	6.3	45	5	1150	Ampl.	Triode Section
6AQ6 Red	4	8	6.3	0	82	....	Diode	Diode No. 1
6AQ8 Red	1	8	6.3	0	82	....	Diode	Diode No. 2
6AQ7 Red-C	9	2	6.3	40	0	1000	Ampl.	Triode Section
6AQ7 Red-O	2	8	6.3	0	0	....	Diode	Diode Section
6AR5 Red	1	9	6.3	55	28	1600	Ampl.	
6AS6 Red	7	9	6.3	57	12	1750	Ampl.	
6AT6 Red	11	2	6.3	47	9	1200	Ampl.	Triode Section
6AT6 Red	4	8	6.3	0	0	....	Diode	Diode No. 1
6AT6 Red	1	8	6.3	0	0	....	Diode	Diode No. 2
6AU6 Red	1	9	6.3	72	16	2300	Ampl.	
6AV6 Red	12	2	6.3	50	10	1250	Ampl.	Triode Section
6AV6 Red	3	8	6.3	0	0	....	Diode	Diode No. 1
6AV6 Red	2	8	6.3	0	0	....	Diode	Diode No. 2
6AX4 Red	7	1	6.3	40	0	....	Rect.	Std.
6AX5	2	9	6.3	33	0	....	Rect.	Std. Plate No. 1
6AX5	10	2	6.3	33	0	....	Rect.	Std. Plate No. 2
6AX6	7	2	6.3	40	0	....	Rect.	Std. Plate No. 1
6AX6	8	7	6.3	40	0	....	Rect.	Std. Plate No. 2
6B4G	7	5	6.3	67	55	3000	Ampl.	
6B5	8	5	6.3	52	0	1500	Ampl.	
6B6	7	5	6.3	28	9	750	Ampl.	Section
6B6	10	5	6.3	0	0	....	Diode	
6B6	10	2	6.3	0	0	....	Diode	
6B7	7	6	6.3	41	25	1000	Ampl.	Pentode Section
6B7	10	6	6.3	0	0	....	Diode	
6B7	10	3	6.3	0	0	....	Diode	

6AG

6AT

6B

Tube Type	Select. A	B	Fil. Volts	Potent. L	R	Mut. Cond.	Press	Notations
6B8	7	5	6.3	42	25	1000	Ampl.	Pentode Section
6B8	10	5	6.3	0	0	....	Diode	
6B8	10	2	6.3	0	0	....	Diode	
6BA6 Red	7	9	6.3	70	0	4300	Ampl.	
6BC5 Red	7	9	6.3	55	19	1600	Ampl.	Short on 4-5
6BD6 Red	1	9	6.3	60	33	2000	Ampl.	
6BE6 Red	8	5	6.3	52	9	1425	Ampl.	Ampl. Section
6BE6 Red	7	9	6.3	55	23	1600	Ampl.	Osc. Section
6BF5 Ivory	8	5	6.3	68	44	3400	Ampl.	
6BF6 Red	11	2	6.3	59	10	1900	Ampl.	Triode Section
6BF6 Red	7	3	6.3	0	0	....	Diode	Diode No. 1
6BF6 Red	10	8	6.3	0	0	....	Diode	Diode No. 2
6BG6	9	6	6.3	73	16	6000	Ampl.	Connect Plate to Upper Right Contact of 6-pin Socket
6BK7	8	7	6.3	70	9	4000	Ampl.	
6BK7	11	7	6.3	70	9	4000	Ampl.	
6BH6 Red	1	9	6.3	60	12	2000	Ampl.	
6BJ6 Red	7	9	6.3	70	10	3800	Ampl.	
6BK6 Red	11	2	6.3	47	5	1250	Ampl.	Triode Section
6BK6 Red	9	10	6.3	40	0	....	Diode	Diode No. 1
6BK6 Red	8	10	6.3	40	0	....	Diode	Diode No. 2
6BL7 Red	4	1	6.3	70	26	4000	Ampl.	Triode No. 1 Short on 2-3
6BL7 Red	10	4	6.3	70	26	4000	Ampl.	Triode No. 2 Short on 2-3
6BN6 Red	10	4	6.3	0	0	500	Ampl.	
6BQ6	8	5	6.3	71	41	4500	Ampl.	Connect Cap to Upper Right Contact of 4-pin Socket
6BY5	7	2	6.3	40	0	....	Rect. Std. Plate No. 1	Short on 1-45
6BY5	3	9	6.3	40	0	....	Rect. Std. Plate No. 2	
6C4 Ivory	2	9	6.3	67	20	2200	Ampl.	
6C5	7	5	6.3	60	17	2000	Ampl.	
6C6	1	7	6.3	49	17	1225	Ampl.	
6C7	7	6	6.3	49	24	1250	Ampl.	Section
6C7	10	6	6.3	0	0	....	Diode	
6C7	10	3	6.3	0	0	....	Diode	
6C8G	8	7	6.3	42	14	1000	Ampl.	No. 1 Plate
6C8G	11	7	6.3	42	14	1000	Ampl.	No. 2 Plate
6CB6 Red	1	9	6.3	62	18	2200	Ampl.	
6CD6	9	6	6.3	74	34	6500	Ampl.	Connect Top Cap to Upper Right Contact of 6-Pin Socket
6D4 Red	12	3	6.3	45	..	....	Rect. Std. Strikes at 61 on R.	
6D5	7	5	6.3	60	47	2000	Ampl.	
6D6	1	7	6.3	56	17	1600	Ampl.	
6D7	7	6	6.3	48	20	1225	Ampl.	
6D8G	7	7	6.3	41	22	1000	Ampl.	Pentode Section
6D8	12	7	6.3	60	20	300	Ampl.	Osc. Sec. Micromhos only. OK over 240 on 3000 Scale.
6E6	1	5	6.3	52	23	1400	Ampl.	No. 1 Plate
6E6	12	5	6.3	52	23	1400	Ampl.	No. 2 Plate
6E7	7	6	6.3	55	20	1500	Ampl.	
6F5	10	5	6.3	43	10	1000	Ampl.	
6F6	8	5	6.3	60	24	2000	Ampl.	

6C

6F

Tube Type	Select. A	Select. B	Fil. Volts	Potent. L	Potent. R	Mut. Cond.	Press	Notations
6F7	7	6	6.3	45	23	1100	Ampl.	Pentode Section
6F7	10	6	6.3	60	23	450	Ampl.	Tri. Sec. Micromhos only. OK over 360 on 3000 Scale.
6F8G	8	7	6.3	60	13	2000	Ampl.	No. 1 Plate
6F8G	11	7	6.3	60	13	2000	Ampl.	No. 2 Plate
6G6G	8	5	6.3	61	19	2100	Ampl.	
6H4GT	4	8	6.3	50	0	....	Diode	Section
6H6	7	2	6.3	50	0	....	Diode	
6H6	7	5	6.3	50	0	....	Diode	
6J4Ivory	8	4	6.3	74	0	6000	Ampl.	Short on 3
6J5G	7	5	6.3	60	24	2000	Ampl.	
6J6 Red	1	2	6.3	72	0	5000	Ampl.	Plate No. 1
6J6 Red	11	8	6.3	72	0	5000	Ampl.	Plate No. 2
6J7	1	9	6.3	48	18	1225	Ampl.	
6J8G	8	5	6.3	41	15	1000	Ampl.	Heptode Section
6J8G	11	5	6.3	0	25	500	Ampl.	Triode Section
6K5G	7	5	6.3	40	17	1000	Ampl.	
6K6G	8	5	6.3	55	28	1600	Ampl.	
6K7	8	5	6.3	54	16	1450	Ampl.	
6K8	8	5	6.3	41	9	1000	Ampl.	Hexode Section
6K8	11	5	6.3	63	9	2400	Ampl.	Triode Section
6L5G	7	5	6.3	56	22	1500	Ampl.	
6L6	8	5	6.3	73	19	5000	Ampl.	
6L7	1	9	6.3	20	19	650	Ampl.	Cap Grid
6L7	8	5	6.3	20	22	650	Ampl.	Pin Grid
6N6MG	8	5	6.3	52	0	1500	Ampl.	
6N7	2	9	6.3	53	10	1500	Ampl.	No. 1 Plate
6N7	12	5	6.3	53	10	1500	Ampl.	No. 2 Plate
6P5G	7	5	6.3	53	24	1450	Ampl.	
6P7	3	12	6.3	45	23	1100	Ampl.	Pentode Section
6P7	6	12	6.3	60	23	450	Ampl.	Tri. Sec. Micromhos only. OK over 360 on 3000 Scale.
6Q6G	7	5	6.3	40	14	1000	Ampl.	Section
6Q6G	7	2	6.3	0	0	....	Diode	
6Q7	7	5	6.3	33	14	800	Ampl.	Section
6Q7	10	5	6.3	0	0	....	Diode	
6Q7	10	2	6.3	0	0	....	Diode	
6R7	7	5	6.3	60	17	1900	Ampl.	Section
6R7	10	5	6.3	0	0	....	Diode	
6R7	10	2	6.3	0	0	....	Diode	
6S7G	8	5	6.3	57	22	1750	Ampl.	
6S8 Red-0	5	9	6.3	36	8	900	Ampl.	Triode Section
6S8 Red-0	2	9	6.3	0	0	....	Diode	Diode No. 1
6S8 Red-0	3	9	6.3	0	0	....	Diode	Diode No. 2
6S8 Red-0	1	2	6.3	0	0	....	Diode	and 117N7 But. Diode No. 3
6SA7	1	7	6.3	28	17	750	Ampl.	Section
6SA7	7	7	6.3	28	17	750	Ampl.	Osc. Section
6SB7	1	7	6.3	28	13	750	Ampl.	Ampl. Section
6SB7	7	7	6.3	60	33	300	Ampl.	Osc. Sec. Micromhos. OK over 240 on 3000 Scale.
6SC7 Red-0	10	3	6.3	42	0	1000	Ampl.	
6SC7 Red-0	1	3	6.3	42	0	1000	Ampl.	
6SD7GT	4	2	6.3	64	13	2500	Ampl.	
6SF5	7	4	6.3	52	12	1000	Ampl.	
6SF7 Red-0	6	7	6.3	60	0	2000	Ampl.	
6SF7 Red-0	8	1	6.3	0	0	....	Diode	
6SG7	4	2	6.3	68	0	3300	Ampl.	
6SH7	4	2	6.3	69	0	3400	Ampl.	
6SJ7	4	2	6.3	56	18	1575	Ampl.	
6SK7	4	2	6.3	59	18	1900	Ampl.	

6K

6S

Tube Type	Select. A	B	Fil. Volts	Potent. L	R	Mut. Cond.	Press	Notations
6SL7 Red-0	4	1	6.3	36	0	900	Ampl.	
6SL7 Red-0	10	4	6.3	53	0	1400	Ampl.	Short on 2-3
6SN7 Red-0	4	1	6.3	56	24	1650	Ampl.	
6SN7 Red-0	10	4	6.3	56	24	1650	Ampl.	Short on 2-3
6SQ7 Red-0	6	6	6.3	42	0	1000	Ampl.	Triode Section
6SQ7 Red-0	3	7	6.3	0	0	....	Diode	Diode No. 1
6SQ7 Red-0	7	1	6.3	0	0	....	Diode	Diode No. 2
6SR7 Red-0	6	6	6.3	59	15	1900	Ampl.	Triode Section
6SR7 Red-0	3	7	6.3	0	0	....	Diode	Diode No. 1
6SR7 Red-0	7	1	6.3	0	0	....	Diode	Diode No. 2
6SS7	4	2	6.3	58	16	1850	Ampl.	
6ST7 Red-0	6	7	6.3	59	12	1900	Ampl.	
6ST7 Red-0	3	7	6.3	0	0	....	Diode	
6ST7 Red-0	7	1	6.3	0	0	....	Diode	
6SV7 Red-0	6	7	6.3	61	9	2100	Ampl.	Pentode Section
6SV7 Red-0	8	1	6.3	40	0	....	Diode	Diode Section
6SZ7 Red-0	6	7	6.3	45	5	1200	Ampl.	Triode Section
6SZ7 Red-0	8	1	6.3	0	0	....	Diode	Diode Section
6SZ7 Red-0	3	6	6.3	0	0	....	Diode	Diode No. 2
6T7G	7	5	6.3	40	14	1000	Ampl.	Triode Section
6T7G	10	5	6.3	0	0	....	Diode	
6T7G	10	2	6.3	0	0	....	Diode	
6TB	8	5	6.3	46	9	1240	AMPL. TRIODE	
6TB	12	5	6.3	40	0	....	Diode	EACH DIODE
6U4 Red-0	12	3	6.3	40	0	....	Rect.	Std.
6U6GT	8	5	6.3	73	27	6200	Ampl.	
6U7G	8	5	6.3	56	17	1600	Ampl.	
6V6G	8	5	6.3	67	25	3000	Ampl.	
6V7G	7	5	6.3	40	32	975	Ampl.	Section
6V7G	10	5	6.3	0	0	....	Diode	
6V7G	10	2	6.3	0	0	....	Diode	
6W4	12	4	6.3	40	0	....	Rect.	Std.
6W5	2	9	6.3	40	0	....	Rect.	Std.
6W5	10	2	6.3	40	0	....	Rect.	Std.
6W6GT	8	5	6.3	67	46	3000	Ampl.	
6W7G	1	9	6.3	41	20	1000	Ampl.	
6X4 Red	3	5	6.3	35	0	....	Rect.	Std. Plate No. 1
6X4 Red	6	5	6.3	35	0	....	Rect.	Std. Plate No. 2
6X5	2	9	6.3	40	0	....	Rect.	Std.
6X5	10	2	6.3	40	0	....	Rect.	Std.
6Y5	9	8	6.3	40	0	....	Rect.	Std.
6Y5	12	8	6.3	40	0	....	Rect.	Std.
6Y6G	8	5	6.3	74	36	7000	Ampl.	
6Y7G	2	9	6.3	39	12	1000	Ampl.	No. 1 Plate
6Y7G	12	5	6.3	39	12	1000	Ampl.	No. 2 Plate
6Z3	1	5	6.3	40	0	....	Rect.	Std.
6Z4	7	7	6.3	40	0	....	Rect.	Std.
6Z4	5	1	6.3	40	0	....	Rect.	Std.
6Z5	9	12	6.3	40	0	....	Rect.	Std.
6Z5	12	12	6.3	40	0	....	Rect.	Std.
6Z7G	2	9	6.3	45	0	1200	Ampl.	No. 1 Plate
6Z7G	12	5	6.3	45	0	1200	Ampl.	No. 2 Plate
6ZY5G	7	2	6.3	40	0	....	Rect.	Std.
6ZY5G	7	5	6.3	40	0	....	Rect.	Std.

6T

6X

Tube Type	Select. A B		Fil. Volts	Potent. L R	Mut. Cond.	Press	Notations
7A4	6	2	6.3	66 14	2600	Ampl.	
7A5	6	2	6.3	71 23	6000	Ampl.	
7A6	8	5	6.3	40 0	....	Diode	Short 1-4-5
7A6	11	5	6.3	40 0	....	Diode	
7A7	6	2	6.3	58 22	1750	Ampl.	
7A8	5	3	6.3	41 20	1000	Ampl.	Section
7A8	8	10	6.3	0 21	500	Ampl.	Osc. Section

7A

7AD7	5	4	6.3	74 8	6200	Ampl.	
7AF7	12	5	6.3	65 17	3600	Ampl.	Triode No. 1
7AF7	2	9	6.3	65 17	2600	Ampl.	Triode No. 2
7AG7	6	2	6.3	67 0	3000	Ampl.	
7AH7	5	4	6.3	68 0	3300	Ampl.	
7AJ7	5	4	6.3	62 7	2275	Ampl.	
7AK7	5	4	6.3	77 0	3200	Ampl.	

7B4	6	2	6.3	43 10	1000	Ampl.	
7B5	6	2	6.3	56 28	1600	Ampl.	
7B6	2	3	6.3	28 9	750	Ampl.	Section Short 1-4-5
7B6	8	3	6.3	0 0	....	Diode	
7B6	6	10	6.3	0 0	....	Diode	
7B7	5	4	6.3	57 22	1700	Ampl.	
7B8	5	3	6.3	40 22	1000	Ampl.	Pentode Section
7B8	8	10	6.3	0 15	500	Ampl.	Osc. Section

7C5	6	2	6.3	67 25	3000	Ampl.	
7C6	2	3	6.3	15 8	600	Ampl.	Section Short 1-4-5
7C6	8	3	6.3	0 0	....	Diode	
7C6	6	10	6.3	0 0	....	Diode	
7C7	6	2	6.3	49 18	1300	Ampl.	Section
7E6	2	3	6.3	59 15	1900	Ampl.	Section Short 1-4-5
7E6	8	3	6.3	0 0	....	Diode	
7E6	12	10	6.3	0 0	....	Diode	

7C

7E7	6	3	6.3	49 18	1300	Ampl.	Pentode Section
7E7	1	8	6.3	0 0	....	Diode	
7E7	4	8	6.3	0 0	....	Diode	
7F7	2	9	6.3	56 0	1600	Ampl.	Plate No. 1 Short on 1-4-5
7F7	12	5	6.3	56 0	1600	Ampl.	Plate No. 2
7G7	5	4	6.3	60 15	2000	Ampl.	
7H7	6	2	6.3	67 0	3000	Ampl.	

7J7	6	3	6.3	31 15	800	Ampl.	Hexode Section
7J7	2	8	6.3	42 15	1000	Ampl.	Triode Section
7K7	2	8	6.3	41 0	1000	Ampl.	Triode Sect., Short on 1-4-5
7K7	9	2	6.3	0 0	....	Diode	Diode No. 1
7K7	5	9	6.3	0 0	....	Diode	Diode No. 2
7L7	6	2	6.3	60 10	2000	Ampl.	
7N7	2	9	6.3	60 13	2000	Ampl.	Plate No. 1 Short on 1-4-5
7N7	12	5	6.3	60 13	2000	Ampl.	Plate No. 2

7J

PJ-7	2	8	5.0	25 12	750	Ampl.	
7Q7	6	2	6.3	33 17	800	Ampl.	
7R7	6	3	6.3	67 8	3000	Ampl.	Pentode Section
7R7	1	8	6.3	0 0	....	Diode	Diode No. 1
7R7	4	8	6.3	0 0	....	Diode	Diode No. 2
7S7	6	3	6.3	53 15	1500	Ampl.	Hexode
7S7	2	8	6.3	53 0	1500	Ampl.	Triode

7X

Tube Type	Select. A	Fil. B	Potent. Volts	Mut. L	Press R	Cond.	Notations
7T7	6	2	6.3	69	0	3400	Ampl.
7V7	6	2	6.3	70	5	4000	Ampl.
7W7	6	2	6.3	67	9	3000	Ampl. Short on 1-4-5
7X6	6	9	6.3	40	0	....	Rect. Std. Plate No. 1
7X6	1	9	6.3	40	0	....	Rect. Std. Plate No. 2

10

7X7	1	2	6.3	30	0	900	Ampl. Short on 1-4-5
7X7	12	8	6.3	0	0	....	Diode Diode No. 1
7X7	7	3	6.3	0	0	....	Diode Diode No. 2
7Y4	1	6	6.3	40	0	....	Rect. Std.
7Y4	6	6	6.3	40	0	....	Rect. Std.
7Z4	1	6	6.3	40	0	....	Rect. Std.
7Z4	6	6	6.3	40	0	....	Rect. Std.

PJ-8	2	10	5.0	49	21	1300	Ampl.
10	2	10	7.5	50	32	1250	Ampl.
10Y	2	10	7.5	53	10	1500	Ampl.
12A	2	10	5	57	36	1650	Ampl.
12A5	1	12	6.3	..	..	....	Check for Shorts
12A5	2	10	12.6	58	42	1800	Ampl.
12A6	8	5	12.6	67	10	3000	Ampl.

12A7	7	6	12.6	39	39	975	Ampl. Pentode Section
12A7	7	3	12.6	40	0	....	Rect. Std.
12A8GT	7	7	12.6	41	18	1000	Ampl. Pentode Section
12A8GT	12	7	12.6	60	30	300	Ampl. Osc. Sec. Micromhos only. OK over 240 on 3000 Scale.
12AH7GT	7	9	12.6	60	35	2000	Gas No. 1 Short on 2-3
12AH7GT	11	9	12.6	60	35	2000	Gas No. 1 Short on 3-4-5

12AL5 Red	12	1	12.6	50	0	....	Diode Short on 2 Diode No. 1
12AL5 Red	1	1	12.6	50	0	....	Diode Diode No. 2
12AT6 Red	11	2	12.6	47	9	1200	Ampl. Triode Section
12AT6 Red	4	8	12.6	0	0	....	Diode Diode No. 1
12AT6 Red	1	8	12.6	0	0	....	Diode Diode No. 2
12AU6 Red	7	9	12.6	63	12	2300	Ampl.

12AV6 Red	12	2	12.6	50	10	1250	Ampl. Triode Sect.
12AV6 Red	3	8	12.6	0	0	....	Diode Diode No. 1
12AV6 Red	2	8	12.6	0	0	....	Diode Diode No. 2
12AW6 Red	1	9	12.6	67	0	3000	Ampl.
12AX4 Red	7	1	12.6	40	0	....	Rect. Std.
12E7	6	2	12.6	59	18	1900	Ampl.
12B8GT	7	7	12.6	0	0	....	Test for Shorts
12B8GT	1	7	12.6	58	18	1800	Ampl. Pentode Section
12B8GT	11	1	12.6	60	0	2000	Ampl. Triode Section

12BA6 Red	7	9	12.6	70	0	4300	Ampl.
12BD6 Red	1	9	12.6	60	33	2000	Ampl.
12BE6 Red	8	5	12.6	52	9	1425	Ampl. Ampl. Section
12BE6 Red	7	9	12.6	55	23	1600	Ampl. Osc. Section
12BF6 Red	11	2	12.6	59	10	1900	Ampl. Triode Section
12BF6 Red	7	3	12.6	0	0	....	Diode Diode No. 1
12BF6 Red	10	8	12.6	0	0	....	Diode Diode No. 2

12BK6 Red	11	2	12.6	47	5	1250	Ampl. Triode Section
12BK6 Red	9	10	12.6	40	0	....	Diode Diode No. 1
12BK6 Red	8	10	12.6	40	0	....	Diode Diode No. 2
12BN6 Red	10	4	12.6	0	0	500	Ampl.
12C8	7	5	12.6	45	20	1150	Ampl. Pentode Section
12C8	10	5	12.6	0	0	....	Diode
12C8	10	2	12.6	0	0	....	Diode

12AT7	8	7	12.6	70	6	4000	Ampl.
12AT7	11	7	12.6	70	6	4000	Ampl.
12AU7	8	7	12.6	61	11	2200	Ampl.
12AU7	11	7	12.6	61	11	2200	Ampl.

12AV7 8 7 12.6 55 19 1640 AMPL
12AV7 11 7 55 19 1640

Tube Type	Select. A	Fil. B	Volts	Potent. L	Mut. R	Cond.	Press	Notations
12F5GT	10	5	12.6	41	10	1000	Ampl.	
12H6	7	2	12.6	50	0	....	Diode	
12H6	7	5	12.6	50	0	....	Diode	
12J5GT	7	5	12.6	60	24	2000	Ampl.	
12J7GT	1	9	12.6	48	18	1225	Ampl.	
12K7GT	8	5	12.6	54	20	1450	Ampl.	
12K8	8	5	12.6	41	9	1000	Ampl. Hex. Sec.	
12K8	11	5	12.6	63	9	2400	Ampl. Triode Sec.	

12Q

12Q7GT	7	5	12.6	33	14	800	Ampl. Triode Sec.	
12Q7GT	10	5	12.6	0	0	....	Diode	
12Q7GT	10	2	12.6	0	0	....	Diode	
12SA7	1	7	12.6	28	17	750	Ampl. No. 1 Grid	
12SA7	7	7	12.6	28	17	750	Ampl. No. 2 Grid	
12SC7Red-0	10	3	12.6	42	0	1000	Ampl.	
12SC7Red-0	1	3	12.6	42	0	1000	Ampl.	

12SF5	7	4	12.6	52	12	1000	Ampl.	
12SF7Red-0	6	7	12.6	60	0	2000	Ampl.	
12SF7Red-0	8	1	12.6	0	0	....	Diode	
12SG7	4	2	12.6	68	10	3300	Ampl.	
12SH7	4	2	12.6	69	0	3400	Ampl.	
12SJ7	4	2	12.6	56	18	1575	Ampl.	
12SK7	4	2	12.6	59	18	1900	Ampl.	

12SL7Red-0	4	1	12.6	53	0	1400	Ampl. Short on 2-3	
12SL7Red-0	10	4	12.6	53	0	1400	Ampl. Short on 2-3	
12SN7Red-0	4	1	12.6	67	0	3000	Ampl. Short on 2-3	
12SN7Red-0	10	4	12.6	67	0	3000	Ampl. Short on 2-3	
12SQ7Red-0	6	6	12.6	42	0	1125	Ampl. Triode Sec.	
12SQ7Red-0	3	7	12.6	0	0	....	Diode Diode No. 1	
12SQ7Red-0	7	1	12.6	0	0	....	Diode Diode No. 2	

12SR7Red-0	6	6	12.6	59	15	1900	Ampl. Triode Sec.	
12SR7Red-0	3	7	12.6	0	0	....	Diode Diode No. 1	
12SR7Red-0	7	1	12.6	0	0	....	Diode Diode No. 2	
12SY7	1	7	12.6	28	17	750	Ampl. Ampl. Sect.	
12SY7	7	7	12.6	28	17	750	Ampl. Osc. Sect.	
12Z3	1	5	12.6	40	0	....	Rect. Std.	
12Z5	6	1	6.3	..	..	....	Check for Shorts	
12Z5	1	8	12.6	40	0	....	Rect. Std.	
12Z5	12	8	12.6	40	0	....	Rect. Std.	

14A

14A4	6	2	12.6	66	14	2600	Ampl.	
14A5	6	2	12.6	67	10	3000	Ampl.	
14A7	6	2	12.6	59	18	1900	Ampl.	
14AF7	12	5	12.6	64	0	2500	Ampl. Triode No. 1	
14AF7	2	9	12.6	64	0	2500	Ampl. Triode No. 2 Short on 1-4-5	

14B6	2	3	12.6	44	0	1100	Ampl. Triode Sec. Short on 1-4-5	
14B6	8	3	12.6	0	0	....	Diode No. 1	
14B6	12	10	12.6	0	0	....	Diode No. 2	
14B8	5	3	12.6	40	22	1000	Ampl. Pentode Section	
14B8	8	10	12.6	0	15	500	Ampl. Osc. Section	
14C5	6	2	12.6	69	19	3700	Ampl.	

12AX7	8	7	12.6	48	6	1250	Ampl.	
12AX7	11	7		48	6	1250		
12AY7	8	7		48	10	1250		
12AY7	11	7		48	10	1250		
12AZ7	8	7		70	6	4000		
12AZ7	11	7		70	6	4000		

(OVER)

12BH7 8 7 12.6 64 16 2380 Ampl.

12BH7 11 7 64 16 2380

Tube Type	Select. A	Fil. B	Potent. Volts	Mut. L	Press R	Cond.	Notations
14C7	6	2	12.6	63	9	2275	Ampl.
14E6	2	3	12.6	58	10	1800	Ampl. Triode Section, Short on 1-4-5
14E6	8	3	12.6	0	0	....	Diode Diode No. 1
14E6	6	10	12.6	0	0	....	Diode Diode No. 2
14E7	6	3	12.6	50	20	1300	Ampl.
14E7	1	8	12.6	0	0	....	Diode
14E7	10	10	12.6	0	0	....	Diode

14F

14F7	2	9	12.6	56	0	1600	Ampl. Plate No. 1 Short on 1-4-5
14F7	12	5	12.6	56	0	1600	Ampl. Plate No. 2
14H7	6	2	12.6	67	0	3000	Ampl.
14J7	6	3	12.6	31	15	800	Ampl. Hex. Sec.
14J7	2	8	12.6	42	15	1000	Ampl. Triode Sec.
14N7	2	9	12.6	60	13	3000	Ampl. Short on 1-4-5 Plate No. 1
14N7	12	5	12.6	60	13	3000	Ampl. Plate No. 2

14Q7	6	2	12.6	31	14	800	Ampl.
14R7	6	3	12.6	67	8	3000	Ampl. Pentode Section
14R7	1	8	12.6	0	0	....	Diode Diode No. 1
14R7	4	8	12.6	0	0	....	Diode Diode No. 2
14S7	6	3	12.6	53	15	1500	Ampl. Heptode Section
14S7	2	8	12.6	53	0	1500	Ampl. Triode Section

14V7	6	2	12.6	70	5	4000	Ampl.
14W7	6	2	12.6	67	9	3000	Ampl. Short on 1-4-5
14X7	2	3	12.6	30	0	900	Ampl. Triode Section Short on 1-4-5
14X7	8	3	12.6	45	0	....	Diode Diode No. 1
14X7	6	10	12.6	45	0	....	Diode Diode No. 2
14Y4	1	6	12.6	40	0	....	Rect. Std.
14Y4	6	6	12.6	40	0	....	Rect. Std.
14Z3	1	5	12.6	40	0	....	Rect. Std.

15	7	6	2	16	18	625	Ampl.
19	8	8	2	42	12	1000	Ampl.
19	11	6	2	42	12	1000	Ampl.
RK20A	4	7	7.5	64	0	2500	Ampl. Connect Plate Cap to Upper Right Contact of 6-Pin Socket
22	2	5	3	0	37	500	Ampl.
24	7	6	2.5	42	10	1000	Ampl. Also 24A

25

VT25A	2	10	6.3	60	25	2000	Ampl.
25A6	8	5	25	62	35	2300	Ampl.
25A7	11	5	25	40	0	....	Check for Shorts
25A7	11	5	25	40	0	....	Rect. Std.
25A7	8	5	25	58	35	1800	Ampl.
25AC5	7	5	25	52	0	1500	Ampl.

19TB 8 5 25 40 0 1000 AMPL TRIODE } ADJUST LINE
 19CB } AT 1100 ON
 19TB 8 5 25 35 0 - DIODE EACH } 3000 SCALE INSTEAD
 19CB } DIODE } OF 1500
 (70V INSTEAD OF 93V)

Tube Type	Select.		Fil. Volts	Potent.		Mut. Cond.	Press	Notations
	A	B		L	R			
25B5	8	5	25	64	0	2500	Ampl.	
25B6G	8	5	25	71	43	4000	Ampl.	
25B8GT	1	7	25	60	18	2000	Ampl.	Pentode Section
25B8GT	11	1	25	54	8	1500	Ampl.	Triode Section
25BQ6	8	5	25	71	41	4500	Ampl.	Connect Plate Cap to Upper Right Contact of 4-pin Socket

25B

25C6G	8	5	25	74	36	7000	Ampl.	
25D8GT	8	5	25	59	15	1900	Ampl.	Pentode Section
25D8GT	11	5	25	45	0	1100	Ampl.	Triode Section
25D8GT	5	1	25	0	0	....	Diode	
25L6	8	5	25	74	25	7500	Ampl.	
25N6G	8	5	25	64	0	2500	Ampl.	
25T	2	10	6.3	41	0	1000	Ampl.	Connect Cap to Plate Contact of 5-pin Socket

25W4Red-0	12	4	25	40	0	....	Rect. Std.	
25X6	7	2	25	40	0	....	Rect. Std.	Plate No. 1
25X6	7	5	25	40	0	....	Rect. Std.	Plate No. 2
25Y5	7	8	25	40	0	....	Rect. Std.	
25Y5	12	8	25	40	0	....	Rect. Std.	
25Z3	1	5	25	40	0	....	Rect. Std.	
25Z4	7	2	25	35	0	....	Rect. Std.	

25Z5	7	8	25	40	0	....	Rect. Std.	
25Z5	12	8	25	40	0	....	Rect. Std.	
25Z5MG	7	2	25	40	0	....	Rect. Std.	
25Z5MG	7	5	25	40	0	....	Rect. Std.	
25Z6	7	2	25	40	0	....	Rect. Std.	
25Z6	7	5	25	40	0	....	Rect. Std.	

26	2	10	1.5	46	35	1150	Ampl.	
26C6 Red	11	2	25	57	9	1700	Ampl.	Triode Section
26C6 Red	7	10	25	0	0	....	Diode	Diode No. 1
26C6 Red	3	8	25	0	0	....	Diode	Diode No. 2
26D6 Red	8	5	25	55	15	1600	Ampl.	Ampl. Sect.
26D6 Red	7	9	25	52	9	1425	Ampl.	Osc. Sect.

26

27	1	6	2.5	40	34	1000	Ampl.	Also 27S
28D7	8	1	25	60	12	2000	Diode	Plate No. 1
28D7	3	6	25	60	12	2000	Ampl.	Plate No. 2
30	2	10	2	36	33	900	Ampl.	
31	2	10	2	35	53	925	Ampl.	
32	2	5	2	19	30	640	Ampl.	

32L7GT	11	5	35	..	..	....	Test for Shorts	
32L7GT	8	5	35	71	18	4800	Ampl.	
32L7GT	11	5	35	40	0	....	Rect. Std.	
33	1	5	2	50	29	1450	Ampl.	
RK33	3	3	6.3	42	28	1000	Ampl.	
RK33	9	3	6.3	42	28	1000	Ampl.	

34	2	5	2	14	27	600	Ampl.	
35	7	6	2.5	42	20	1020	Ampl.	Also 35S
35A5	6	2	35	74	27	5900	Ampl.	
35B5 Ivory	8	5	35	70	28	4500	Ampl.	
35L6GT	8	5	35	71	32	5800	Ampl.	

34

Tube Type	Select. A	Select. B	Fil. Volts	Potent. L	Potent. R	Mut. Cond.	Press	Notations
35W4 Red	1	5	BLST	..	..	....		Short on 1-2-3-4-5
35W4 Red	1	5	25	40	0	....	Rect.	Std. Short on 4-5
35Y4	4	2	35	40	0	....	Rect.	Std. Short on 3-4-5
35Z3	1	1	35	35	0	....	Rect.	Std.
35Z4GT	10	2	35	40	0	....	Rect.	Std.
35Z5GT	7	1	BLST	40	0	....		Short Test - Should light on 1-2-3-4-5
35Z5GT	11	1	35	40	0	....	Rect.	Std.
35Z6G	7	2	35	40	0	....	Rect.	Std. Plate No. 1
35Z6G	7	5	35	40	0	....	Rect.	Std. Plate No. 2
36	7	6	6.3	43	20	1050	Ampl.	
37	1	6	6.3	36	34	900	Ampl.	
38	7	6	6.3	41	32	1050	Ampl.	
39-44	7	6	6.3	41	23	1000	Ampl.	
40	2	10	5	60	26	200	Ampl.	Micromhos only. OK over 160 on 3000 Scale.
41	8	5	6.3	55	28	1600	Ampl.	
42	8	5	6.3	60	24	2000	Ampl.	
43	8	5	25	62	35	2300	Ampl.	
45	2	10	2.5	59	50	1850	Ampl.	
45Z3 Blk	10	2	35	35	0	....	Rect.	Std. also Press 117N7
45Z5GT	11	1	35	40	0	....	Rect.	Std.
45Z5GT	1	3	BLST	40	0	....		Short Test - Should Light on 1-2-3-4-5
46	1	5	2.5	60	25	2000	Ampl.	
47	1	5	2.5	60	18	2000	Ampl.	
48	8	5	25	60	48	2000	Ampl.	
49	1	5	2	45	40	1125	Ampl.	
50	2	10	7.5	53	50	1500	Ampl.	
50A5	6	2	50	74	25	7500	Ampl.	
50B5 Ivory	8	5	50	74	19	7500	Ampl.	
50C6G	8	5	50	74	36	7000	Ampl.	
50L6GT	8	5	50	74	25	7500	Ampl.	
50X6	6	9	50	40	0	....	Rect.	Std.
50X6	1	9	50	40	0	....	Rect.	Std.
50Y6GT	7	2	50	40	0	....	Rect.	Std. Plate No. 1
50Y6GT	7	5	50	40	0	....	Rect.	Std. Plate No. 2
50Y7	7	2	50	45	0	....	Rect.	Std. Plate No. 1
50Y7	7	5	50	45	0	....	Rect.	Std. Plate No. 2
50Z7G	7	6	50	40	0	....	Rect.	Std. Plate No. 1
50Z7G	10	2	50	40	0	....	Rect.	Std. Plate No. 2
51	7	6	2.5	42	20	1020	Ampl.	Also 51S
52	1	5	6.3	63	27	2400	Ampl.	
53	1	5	2.5	53	10	1500	Ampl.	No. 1 Plate
53	12	5	2.5	53	10	1500	Ampl.	No. 2 Plate
55	7	6	2.5	40	32	975	Ampl.	
55	10	6	2.5	0	0	....	Diode	OK over 500
55	10	3	2.5	0	0		Diode	OK over 500
56	1	6	2.5	53	26	1450	Ampl.	Also 56S
57	2	5	2.5	49	17	1225	Ampl.	Also 57S

40

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57

Tube Type	Select.		Fil. Volts	Potent. L R		Mut. Cond.	Press	Notations
57A	2	5	6.3	48	17	1225	Ampl.	Also 57AS
58	2	5	2.5	54	20	1450	Ampl.	Also 58S
58A	2	5	6.3	54	20	1450	Ampl.	Also 58AS
59	8	8	2.5	60	18	2000	Ampl.	
VI67	2	10	2	43	30	1025	Ampl.	
HY69	4	7	6.3	70	27	3500	Ampl.	Connect Plate to top Contact of 7-pin Socket
70A7GT	8	5	75	71	17	5800	Ampl.	Short on 1-4-5
70A7GT	11	5	75	0	0	....	Diode	OK over 300
70L7GT	6	12	70	71	34	....	Check	for Shorts
70L7GT	7	7	70	71	34	5000	Ampl.	
70L7GT	5	1	70	40	0	....	Rect. Std.	
71A	2	10	5	56	60	1650	Ampl.	
75	7	6	6.3	28	9	750	Ampl.	Section
75	10	6	6.3	0	0	....	Diode	
75	10	3	6.3	0	0	....	Diode	
75MG	9	5	6.3	28	9	750	Ampl.	Section
75MG	12	2	6.3	0	0	....	Diode	
75MG	12	5	6.3	0	0	....	Diode	
76	1	6	6.3	53	24	1450	Ampl.	
77	2	5	6.3	48	17	1225	Ampl.	
78	2	5	6.3	54	20	1450	Ampl.	
79	2	10	6.3	39	12	1000	Ampl.	No. 1 Plate
79	5	10	6.3	39	12	1000	Ampl.	No. 2 Plate
80	2	7	5	35	0	....	Rect. Std.	
80	3	7	5	35	0	....	Rect. Std.	
81	2	7	7.5	33	0	....	Rect. Std.	
92	2	7	2.5	40	0	....	Rect. Std.	
82	3	7	2.5	40	0	....	Rect. Std.	
82V	2	7	2.5	40	0	....	Rect. Std.	
82V	3	7	2.5	40	0	....	Rect. Std.	
83	2	7	5	40	0	....	Rect. Std.	
83	3	7	5	40	0	....	Rect. Std.	
33V	2	7	5	40	0	....	Rect. Std.	
83V	3	7	5	40	0	....	Rect. Std.	
84	7	7	6.3	40	0	....	Rect. Std.	
84	5	1	6.3	40	0	....	Rect. Std.	
85	7	6	6.3	40	32	975	Ampl.	Section
85	10	6	6.3	0	0	....	Diode	
85	10	3	6.3	0	0	....	Diode	
89	2	5	6.3	54	30	1550	Ampl.	
99	2	10	3	60	45	425	Ampl.	Micromhos only. OK over 340 on 3000 Scale.
112A	2	10	5	57	36	1650	Ampl.	
HY-114B	10	5	1.5	43	15	1100	Ampl.	Connect Grid to Upper Left Contact of 6-pin Socket. Connect Plate to Upper Right Contact of 6-pin Socket.
117L7GT	2	8	117	72	30	4000	Ampl.	Short on 1-4-5
117L7GT	5	8	117	40	0		Rect. Std.	

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117

Tube Type	Select. A	Fill. B	Potent. Volts	Mut. L	Press R	Cond.	Notations
117M7GT	2	8	117	73	28	6000	Ampl. Short on 1-4-5
117M7GT	5	8	117	40	0	....	Rect. Std.
117N7GT	8	10	117	74	25	7000	Ampl.
117N7GT	4	3	117	40	0	....	Rect. Std. Also Press 117N7 But.
117P7GT	8	10	117	70	25	4000	Ampl.
117P7GT	4	3	117	40	0	....	Rect. Std. Also Press 117N7
117Z3 Ivory	2	6	117	41	0	....	Rect. Std.
117Z4GT	10	2	117	40	0	....	Rect. Std.
117Z6G	2	7	117	75	0	....	Gas No. 1
117Z6G	10	2	117	75	0	....	Gas No. 1 Early Tubes Short 1-3 Late Tubes Short 3
GL502A	7	5	6.3	45	..	....	Rect. Std. Strikes at 26 on R.
629	1	6	2.5	40	..	....	Rect. Std. Strikes at 32 on R.
717A	4	2	6.3	69	0	3500	Ampl.
801A	2	10	7.5	53	0	1500	Ampl.
802	10	3	6.3	60	18	2000	Ampl. *
807	12	1	6.3	70	27	3500	Ampl. Connect Pl. to Top Left Contact of 6-pin Socket
809	2	10	6.3	60	0	1700	Ampl. *
811	2	10	6.3	51	0	1400	Ampl. Connect Plate Cap to Right Hand Contact of 5-pin Socket
812	2	10	6.3	61	0	2200	Ampl. Connect Plate Cap to Right Hand Contact of 5-pin Socket
816	7	1	2.5	20	0	....	Rect. Std. *
834	10	2	7.5	57	0	1800	Ampl. *Far Cap=P Near Cap=G
837	10	3	12.6	71	0	4000	Ampl.
840	4	7	2.0	60	20	400	Ampl. Connect Plate Cap to Top Contact of 7-pin Socket. OK over 320
841	2	10	7.5	42	0	1000	Ampl. Micromhos only. OK over 280 on 3000 Scale.
842	2	10	7.5	46	50	1150	Ampl.
843	1	6	2.5	56	10	1625	Ampl.
864	2	10	1.5	18	37	650	Ampl.
865	10	4	7.5	16	28	625	Ampl. (*)
866A	7	1	2.5	40	0	....	Rect. Std. (*)
866Jr.	2	7	2.5	40	0	....	Rect. Std.
871	7	1	2.5	20	0	....	Rect. Std. (*)
874	3	7	BLST	35	0	....	Gas No. 1 Short on 4-5
878	5	12	2.5	0	0	....	Rect. Std. Connect Plate Cap to Left Hand Contact of 5-pin Socket
XXB	2	10	2.5	30	30	800	Ampl.
XXB	12	6	2.5	31	60	400	Ampl. Micromhos only. OK over 320 on 3000 Scale.
XXD	12	5	12.6	64	0	2500	Ampl. Plt. No. 1 Short on 1-4-5
XXD	2	9	12.6	64	0	2500	Ampl. Plt. No. 2

MIS.

Tube Type	Select. A	B	Fil. Volts	Potent. L	R	Mut. Cond.	Press	Notations
XXFM	1	2	6.3	30	0	900	Ampl.	Short 1-4-5
XXFM	12	8	6.3	0	0	....	Diode	
XXFM	7	3	6.3	0	0	....	Diode	
XXL	6	2	6.3	67	0	3000	Ampl.	
879	7	1	2.5	0	0	....	Rect.	Std. OK over 1000 (*)
884	7	5	6.3	40	*	....	Rect.	Std. Strikes at 60 on R
885	1	6	2.5	40	*	....	Rect.	Std. Strikes at 60 on R
950	1	5	2	37	37	950	Ampl.	
951	2	5	2	18	29	640	Ampl.	
954	6	7	6.3	44	17	1100	Ampl.	
955	9	7	6.3	59	18	1900	Ampl.	
956	6	7	6.3	53	14	1500	Ampl.	
957	9	7	1.1	19	23	650	Ampl.	Short on 4-5
958	9	7	1.1	47	34	1200	Ampl.	Short on 4-5
959	6	7	1.1	14	23	600	Ampl.	Short on 4-5
FM-1000	3	6	6.3	53	10	1500	Ampl.	Grid No. 1
FM-1000	10	10	6.3	53	10	1500	Ampl.	Grid No. 2
E-1148	7	2	6.3	62	10	2200	Ampl.	* Upper Cap--P Lower Car--G
1203	9	5	6.3	25	0	....	Diode	
1231	5	4	6.3	71	10	4000	Ampl.	
1232	5	4	6.3	60	15	2000	Ampl.	
1237	1	6	2.5	32	0	....	Diode	Plate No. 1 Short on 1-2-3-4-5
1237	6	6	2.5	32	0	....	Diode	Plate No. 2 Short on 1-2-3-4-5
HY1269	12	1	12.6	70	24	4000	Ampl.	* Short on 4-5
1273	6	2	6.3	63	9	2275	Ampl.	
1280	6	2	12.6	63	9	2275	Ampl.	
1284	6	2	12.6	60	23	2000	Ampl.	
1285	8	5	25	72	31	5800	Ampl.	
1291	1	6	1.5	0	15	2000	Diode	Short on 4-5, Reads in Green, Plate No. 1
1291	6	6	1.5	0	15	2000	Diode	Reads in Green, Plate No. 2
1293	6	2	1.5	50	25	1300	Ampl.	
1294	10	5	1.5	0	0	....	Diode	
1299	6	2	1.5	61	30	2100	Ampl.	Short on 1
1609	1	5	1.5	26	18	725	Ampl.	
1612	1	9	6.3	20	19	650	Ampl.	Cap Grid
1612	8	5	6.3	20	22	650	Ampl.	Pin Grid
1613	8	5	6.3	62	0	2250	Ampl.	
1616	7	1	2.5	35	0	....	Rect.	Std. (*)
1619	8	5	2.5	69	10	3400	Ampl.	
1620	1	9	6.3	48	18	1225	Ampl.	
1621	8	5	6.3	60	24	2000	Ampl.	
1622	8	5	6.3	73	19	5000	Ampl.	
1623	12	1	6.3	61	0	2200	Ampl.	(*)
1624	12	1	2.5	71	14	4000	Ampl.	(*)
1625	10	3	12.6	70	27	3800	Ampl.	(*)
1626	8	5	12.6	61	43	2100	Ampl.	
1631	8	5	12.6	73	19	5000	Ampl.	

Tube Type	Select. A	Fill. B	Potent. Volts	Mut. L	Cond. R	Press	Notations
1632	8	5	12.6	75	15	8000	Ampl.
1633 Red-O	4	1	25	75	0	8500	Ampl. Short on 2-3
1633 Red-O	10	4	25	69	0	3400	Ampl. Short on 2-3
1634 Red-O	10	3	12.6	42	0	1000	Ampl. Plate No. 1
1634 Red-O	1	3	12.6	42	0	1000	Ampl. Plate No. 2
1635	2	9	6.3	35	0	850	Ampl. Triode No. 1
1635	12	5	6.3	35	0	850	Ampl. Triode No. 2
1851	8	5	6.3	71	10	4000	Ampl.
1852	4	2	6.3	71	10	3500	Ampl.
1853	4	2	6.3	71	10	3500	Ampl.
HY113	7	5	1.5	0	40	500	Ampl.
HY115	7	5	1.5	60	32	370	Ampl. Micromhos only. OK
HY125	7	5	1.5	60	45	450	Ampl. Micromhos only. OK
HY145	7	5	1.5	60	32	370	Ampl. Micromhos only. OK
HY155	7	5	1.5	60	45	450	Ampl. Micromhos only. OK
2050	8	5	6.3	40	..	....	Rect. Std. Strikes at 32 on R
2051	8	5	6.3	40	..	....	Rect. Std. Strikes at 32 on R
5556	2	10	5.0	49	21	1300	Ampl.
5610 Ivory	8	10	6.3	70	22	4000	Ampl.
5663 Red	12	2	6.3	47	..	....	Rect. Std. Strikes at 26 on R
5691 Red-O	4	1	6.3	36	0	900	Ampl. Triode No. 1
5691 Red-O	10	4	6.3	53	0	1400	Ampl. Triode No. 2 Short on 2-3
5692 Red-O	4	1	6.3	56	24	1650	Ampl. Triode No. 1
5692 Red-O	10	4	6.3	56	24	1650	Ampl. Triode No. 2 Short on 2-3
5694	2	9	6.3	60	0	2000	Ampl. Triode No. 1 Short on 4-5
5694	12	5	6.3	60	0	2000	Ampl. Triode No. 2 Short on 1-4-5
5731	9	6	6.3	52	24	1500	Ampl.
5742	2	8	5.0	25	12	750	Ampl.
5812 Red	7	9	6.3	70	38	4300	Ampl. Short on 4-5
5844 Red	1	2	6.3	66	13	3000	Ampl. Triode No. 1
5844 Red	11	8	6.3	66	13	3000	Ampl. Triode No. 2
7193	7	2	6.3	67	0	3000	Ampl. *
9001 Red	1	9	6.3	44	17	1100	Ampl. Short on 4-5
9002 Ivory	2	9	6.3	59	18	1900	Ampl. Short on 4-5
9003 Red	1	9	6.3	54	14	1500	Ampl. Short on 4-5
9004	4	5	6.3	44	0	....	Diode
9005	7	1	4.3	0	0	....	Diode
9006 Ivory	2	9	6.3	20	0	....	Diode Short on 4-5
38142	2	10	7.5	62	30	2200	Ampl.

TO TEST MAGIC EYE TUBES:

Press "Amp." Button

6AB5--6E5--6G5--6H5--6N5--6T5--6U5.

A B

12 3 Eye Open.

12 2 Eye Closed.

6AD6--6AF6.

A B

2 8 Eye No. 1 Open, No. 2 Closed.

3 8 Eye No. 2 Open, No. 1 Closed.

1629

A B Fil. Press

3 7 12.6 Ampl. Eye Open

4 7 12.6 Ampl. Eye Closed

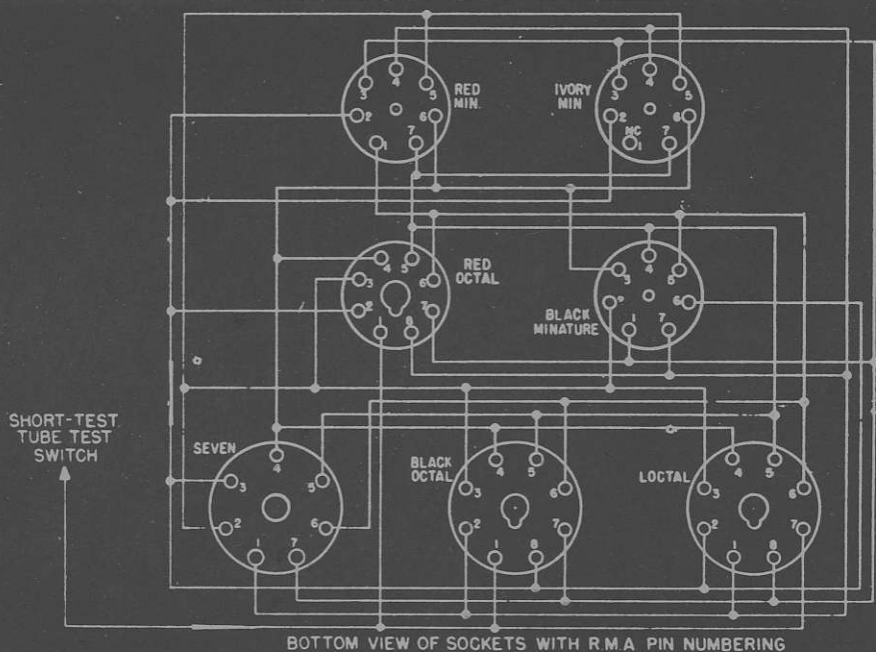
CHART OF OBSOLETE TUBES FOR

MODEL 510X-530-550X

TUBE TESTERS

Tube Type	Select.		Fil. Volts	Potent.		Mut. Cond.	Press	Notations
	A	B		L	R			
01AA	2	10	5	26	39	725	Ampl.	
G2S	7	7	2.5	25	0	....	Rect. Std.	
G2S	5	1	2.5	25	0	....	Rect. Std.	
KR2	1	5	2.5	40	0	....	Rect. Std.	
G4S	7	7	2.5	25	0	....	Rect. Std.	
G4S	5	1	2.5	25	0	....	Rect. Std.	
KR5	1	5	6.3	60	23	2000	Ampl.	
WD11	2	10	1.5	60	35	425	Ampl.	Micromhos only. OK over 340 on 3000 Scale.
WX12	2	10	1.5	60	36	425	Ampl.	Micromhos only. OK over 340 on 3000 Scale.
14	7	6	12.6	42	20	1000	Ampl.	
17	1	6	12.6	40	34	1000	Ampl.	
18	8	5	12.6	57	28	1750	Ampl.	
20	2	10	3.0	0	68	525	Ampl.	
KR20	8	8	2.5	2	30	500	Ampl.	No. 1 Grid
KR20	8	6	2.5	2	30	500	Ampl.	No. 2 Grid
KR22	8	8	6.3	2	30	500	Ampl.	No. 1 Grid
KR22	8	6	6.3	2	30	500	Ampl.	No. 2 Grid
KR25	8	5	2.5	57	28	1750	Ampl.	
27HM	1	6	2.5	53	29	1450	Ampl.	
KR28	7	7	6.3	40	0	....	Rect. Std.	Plate No. 1
KR28	5	1	6.3	40	0	....	Rect. Std.	Plate No. 2
29	8	8	2.5	0	19	500	Ampl.	No. 1 Grid
29	8	6	2.5	0	19	500	Ampl.	No. 2 Grid
38MG	8	5	6.3	41	32	1050	Ampl.	
43MG	8	5	25	62	35	2300	Ampl.	
RK43	2	10	1.5	36	17	900	Ampl.	Plate No. 1
RK43	12	6	1.5	36	17	900	Ampl.	Plate No. 2
64	7	6	6.3	42	26	1050	Ampl.	Also 64A
65	7	6	6.3	41	23	1000	Ampl.	Also 65A
67	1	6	6.3	40	34	1000	Ampl.	Also 67A
68	7	6	6.3	41	32	1050	Ampl.	Also 68A
69	8	8	6.3	0	19	500	Ampl.	No. 1 Grid
69	8	6	6.3	0	19	500	Ampl.	No. 2 Grid
70	8	8	6.3	60	25	300	Ampl.	Micromhos only. OK over 240 on 3000 Scale.
70	8	6	6.3	60	25	300	Ampl.	Micromhos only. OK over 240 on 3000 Scale.
G84	2	7	2.5	40	0	....	Rect. Std.	
85A	7	6	6.3	49	24	1250	Ampl.	Section
85A	10	6	6.3	0	0	....	No. 1 Diode	
85A	10	3	6.3	0	0	....	No. 2 Diode	
87	2	5	6.3	48	20	1225	Ampl.	

Tube Type	Select. A B		Fil. Volts	Potent. L R		Mut. Cond.	Press	Notations
88	2	5	6.3	56	19	1600	Ampl.	
90	8	8	2.5	2	30	500	Ampl.	No. 1 Grid
90	8	6	2.5	2	30	500	Ampl.	No. 2 Grid
92	8	8	6.3	2	30	500	Ampl.	No. 1 Grid
92	8	6	6.3	2	30	500	Ampl.	No. 2 Grid
95	8	5	2.5	57	28	1750	Ampl.	
96	1	5	12.6	40	0	....	Rect.	Std.
98	7	7	6.3	40	0	....	Rect.	Std.
98	5	1	6.3	40	0	....	Press	Rect. Std. But.
C171	2	10	3	38	68	1000	Ampl.	
181	2	10	3	38	68	1000	Ampl.	
C182	2	10	5	38	68	1000	Ampl.	
C182A	2	10	5	53	65	1500	Ampl.	
182B	2	10	5	53	48	1500	Ampl.	
183	2	10	5	50	65	1350	Ampl.	
257	1	5	5	49	41	1250	Ampl.	
C373	2	10	3	42	41	1000	Ampl.	
401	2	10	3	42	41	1000	Ampl.	
403	2	10	3	46	72	1200	Ampl.	
482A	2	10	5	50	65	1500	Ampl.	
482B	2	10	5	58	47	1500	Ampl.	
483	2	10	5	50	65	1350	Ampl.	
484	1	6	3	49	30	1300	Ampl.	
484A	1	6	3	49	30	1300	Ampl.	
485	1	6	3	49	30	1300	Ampl.	
486	1	6	3	60	35	450	Ampl.	Micromhos only. OK over 360 on 3000 Scale.
551	7	6	2.5	42	20	1020	Ampl.	
585	2	10	7.5	53	50	1500	Ampl.	
586	2	10	7.5	53	50	1500	Ampl.	
C686	1	6	3	60	35	450	Ampl.	Micromhos only. OK over 360 on 3000 Scale.
P861	7	7	6.3	40	0	....	Rect.	Std.
P861	5	1	6.3	40	0	....	Rect.	Std.
AD	1	5	6.3	40	0	....	Rect.	Std.
AF	..	..	....	..	..	....	Same as 82	
AG	..	..	....	..	..	....	Same as 83	
GA	1	5	5	60	16	2000	Ampl.	
LA	1	5	6.3	60	23	2000	Ampl.	
PZ	1	5	2.5	60	18	2000	Ampl.	
PZH	8	8	2.5	63	25	2400	Ampl.	
RE-1	..	..	....	..	..	....	Same as 80	
RE-2	..	..	....	..	..	....	Same as 81	



BOTTOM VIEW OF SOCKETS WITH R.M.A. PIN NUMBERING

See front of book for sockets
to be used.

DYNAMIC MUTUAL CONDUCTANCE

TUBE TESTERS

Exclusive with

HICKOK