TB 11-6625-316-12/1

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

TEST DATA FOR TEST SETS, ELECTRON TUBE TV-2/U, TV-2A/U, TV-2B/U, AND TV-2C/U

HEADQUARTERS, DEPARTMENT OF THE ARMY

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Note. This bulletin supplements the data contained on the tube test data roll charts on the covers of Test Sets, Electron Tube TV-2/U, TV-2A/U, and TV-2B/U.

1. Tube Test Data. The tube test data provides information necessary to test some of the electron tubes that are not listed on the tube test data roll chart. The column headings in this bulletin duplicate the column headings on the tube test data roll chart housing. For a complete explanation of each column heading, refer to TM 11–6625–316–12.

2. Abbreviations. The letters "FS" and "RL" in the SIG VR column represent "full scale" and "red line," respectively. The letters "CCW" in the BIAS column, under METER SETTING, represent "counterclockwise."

3. Test Data. The tube types appear in numerical and alphabetical order. The test data is listed from left to right in the order in which the controls should be set.

***This bulletin supersedes TB 11-2661-1, 27 January 1960, including C 1 26 July 1960; C 2, 30 March 1961; C 3, 26 October 1961; and C 4, 1 June 1962**

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIG
OC2	VR	VR	00 005 70	OFF	5	G	F
OC2	VR	VR	00 005 70	OFF	5	G	F
OG3	VR	VR	00 001 20	OFF	5	L	F
OG3	VR	VR	00 005 40	OFF	5	L	F
OZ4A	EM	T	00 030 80	OFF	5	G	A
OZ4A	EM	T	00 050 80	OFF	5	G	A
OZ4G	EM	T	00 030 80	OFF	5	G	A
OZ4G	EM	T	00 050 80	OFF	5	G	A
1AB6	GM	T	17 435 02	1.5	5	Q	E
1AC5	GM	T	45 278 00	1.1	10	N	E
1AC6	GM	T	17 432 65	1.5	5	Q	D
1AD5	GM	T	45 278 00	1.1	5	N	E
1AF4	GM	T	17 623 00	1.5	5	N	D
1AF5	GM	T	17 654 00	1.5	5	N	E
1AF5	EM	T	17 030 00	1.5	5	S	C
1AG4	GM	T	35 412 00	1.1	5	Q	D
1AG5	GM	T	46 512 00	1.1	5	Q	E
1AG5	EM	T	46 030 00	1.1	5	S	C
1AJ4	GM	T	71 623 00	1.5	5	N	D
1AJ5	GM	T	46 512 00	1.1	5	Q	E
1AJ5	EM	T	46 030 00	1.1	5	S	B
1AK4	GM	T	35 412 00	1.1	5	Q	E
1AK5	GM	T	46 512 00	1.1	5	Q	E
1AK5	EM	T	46 030 00	1.1	5	S	C
1C3	GM	T	17 420 00	1.5	5	N	E
1DN5	GM	T	17 623 00	1.5	5	N	E
1DN5	EM	T	17 040 00	1.5	5	S	C
1E3	GM	T	45 180 00	1.1	10	G	C
1H2	EM	VR	12 00A 00	1.5	5	K	F
1M3	ER	T	45 180 00	1.5	50	P	A
1S2A	EM	VR	12 00A 00	1.5	5	L	C
1T6	GM	T	45 318 00	1.1	5	N	E
1T6	EM	T	45 060 00	1.1	5	S	E
1U6	GM	T	17 453 26	1.5	5	N	E
1V6	GM	T	45 760 80	1.1	5	Q	E
1V6	GM	T	45 210 30	1.1	5	Q	E
1W4	GM	T	45 782 19	1.5	50	N	D
1Z2	EM	T	17 0B0 00	1.1	5	G	A
2AF4	GM	T	34 210 50	2.5	C	N	D

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VR				
30 MA	0		FS	50	P5	83	Max. Max dif −4.5.
5 MA	0	----	FS	50	P5	68	Min. Max dif −4.5.
9 MA	0	------	FS	50	P5	88	Max dif −1.0.
2 MA	0		FS	50	P5	82	Max dif −1.0.
200	0		RL	10	P2	90	Diode #1.
200	0		RL	10	P2	40	Diode #2.
200	0		RL	10	P2	40	Diode #1.
200	0		RL	10	P2	40	Diode #2.
45	3.5	45	RL	28	P4	65	Adj fil to 1.4.
67.5	4.5	67.5	RL	30	P4	65	
45	2.5	45	RL	91	P4	65	Adj fil to 1.4.
67.5	2.5	67.5	RL	42	P4	65	
90	1.2	90	RL	100	P4	65	Adj fil to 1.4.
90	1.0	90	RL	41	P4	65	Pentode sect. Adj fil to 1.4.
20 AC	0		RL	40	P2	50	Diode sect. Adj fil to 1.4.
45	3.5	45	RL	87	P4	65	Adj fil to 1.25.
45	2.0	45	RL	80	P4	65	Pentode sect. Adj fil to 1.25.
20 AC	0		RL	26	P2	25	Diode sect. Adj fil to 1.25.
90	1.6	90	RL	96	P4	65	Adj fil to 1.4.
45	1.0	45	RL	60	P4	65	Pentode sect. Adj fil to 1.25.
20 AC	0		RL	44	P2	25	Diode sect. Adj fil to 1.25.
45	1.0	45	RL	45	P4	65	Adj fil to 1.25.
45	1.0	45	RL	70	P4	65	Pentode sect. Adj fil to 1.25.
20 AC	0	------	RL	26	P2	25	Diode sect. Adj fil to 1.25.
90	3.0	------	RL	24	P4	65	Adj fil to 1.4.
90	4.0	90	RL	41	P4	65	Pentode sect. Adj fil to 1.4.
20V AC	0		RL	35	P2	50	Diode sect. Adj fil to 1.4.
150	3.5		RL	59	P4	65	Adj fil to 1.25.
(#)	0	(#)	CW	50	P5	(*)	Adj fil to 1.4.
100	0		RL	0	P4	------	
--------	0	70	FS	45	P5	------	OK under 75 (Adj fil to 1.4).
67.5	.5	67.5	RL	43	P4	50	Diode sect.
20 AC	0	------	RL	48	P2	65	Adj fil to 1.4.
65	1.0	65	RL	50	P4	-----	
45	1.0	45	RL	79	P4	65	Pentode sect. Adj fil to 1.25.
45	3.5	45	RL	60	P4	65	Triode sect. Adj fil to 1.25.
90	9.0	90	RL	92	P4	65	Adj fil to 1.4.
225	0	------	RL	90	P2	72	Adj fil to 1.25.
80	CCW	0	RL	73	P4	65	Adj fil to 2.35.

#Adjust plate and screen controls so that plate meter reads 3.0 MA.
* OK under 100 on percent quality meter. (Tube voltage drop measured.)

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIG
2B3	EM	T	27 0A0 00	2.0	5	N	A
2BN4	GM	T	34 250 10	2.0	D	G	B
2BN4A	GM	T	43 250 10	2.0	D	G	B
2CW4	GM	T	31 420 80	2.0	5	N	B
2CY5	GM	T	34 156 20	2.5	5	L	B
2D21W	TH	VR	34 106 27	6.3	10	L	F
2E5	ER	T	16 040 50	2.5	5	K	F
2E5	ER	T	16 042 50	2.5	5	K	F
2E5	EM	T	16 342 50	2.5	5	S	A
2E36	GM	T	35 412 00	1.1	5	Q	E
2E41	GM	T	46 512 00	1.1	5	Q	E
2E41	EM	T	46 030 00	1.1	5	S	C
2E42	GM	T	46 512 00	1.1	5	Q	E
2E42	EM	T	46 030 00	1.1	5	S	C
2EA5	GM	T	43 156 20	2.5	5	J	B
2EN5	EM	T	43 070 56	2.0	5	S	A
2EN5	EM	T	43 020 56	2.0	5	S	A
2ER5	GM	T	43 256 70	2.0	5	M	B
2ES5	GM	T	34 250 10	2.5	5	G	B
2EV5	GM	T	34 156 20	2.5	5	M	B
2FH5	GM	T	34 250 70	2.5	5	M	B
2FQ5	GM	T	43 250 70	2.5	5	K	B
2FS5	GM	T	34 156 70	2.5	5	J	B
2FY5	GM	T	34 250 16	2.5	5	K	B
2G22	GM	T	47 326 51	1.1	5	Q	E
2G22	GM	T	47 310 00	1.1	5	Q	E
2GK5	GM	T	34 250 70	2.5	5	K	A
2T4[1]	GM	T	34 210 50	2.5	C	N	B
2V2	EM	T	27 0A0 00	2.5	5	G	A
3A2	EM	T	12 0A0 00	3.0	5	G	A
3A3	EM	T	27 0A0 00	3.0	5	G	A
3A4	GM	T	17 423 00	3.0	10	N	D
3AF4A	GM	T	34 210 50	3.0	C	N	B
3AL5	EM	T	34 070 10	3.0	5	S	A
3AL5	EM	T	34 020 50	3.0	5	S	A
3AU6	GM	T	34 156 72	3.0	A	J	B
3AV6	GM	T	34 170 20	3.0	5	G	C
3AV6	EM	T	34 060 20	3.0	5	S	B
3AV6	EM	T	34 050 20	3.0	5	S	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VF				
100	0		RL	40	P2	50	Adj fil to 1.75.
150	CCW		RL	70	P4	65	Adj fil to 2.1.
150	CCW		RL	55	P4	65	Adj fil to 2.35.
70	.2		RL	25	P4	65	Use Hickok adapter code No. 1050-127.
125	1.0	80	RL	70	P4	65	Adj fil to 2.4.
	10	120	FS	50	P5	Bias	Volts 1.5 min, 3.0 max.
200	0	200	RL	0	P4	-----	Eye open.
200	0	200	RL	0	P4	------	Eye closed.
20 AC	0		RL	54	P2, P3	50	Triode sect.
45	1.25	45	RL	55	P4	65	
45	2.0	45	RL	80	P4	65	Pentode sect. Adj fil to 1.25.
20 AC	0		RL	26	P2	50	Diode sect. Adj fil to 1.25.
45	2.0	45	RL	80	P4	65	Pentode sect. Adj fil to 1.25.
20 AC	0		RL	26	P2	50	Diode sect. Adj fil to 1.25.
250	1.0	140	RL	57	P4	65	Adj fil to 2.3.
20 AC	0		RL	80	P2	40	Diode #1.
20 AC	0		RL	80	P2	40	Diode #2.
200	1.2		RL	28	P4	65	Adj fil to 2.1.
200	1.0	-----	RL	40	P4	63	Adj fil to 2.35.
195	1.2	80	RL	65	P4	63	Adj fil to 2.4.
135	1.0		RL	44	P4	63	
135	1.2	-----	RL	24	P4	65	Adj fil to 2.3.
245	.2	135	RL	43	P4	65	Adj fil to 2.4.
135	1.0		RL	20	P4	65	Adj fil to 2.4.
45	3.0	43	RL	85	P4	65	Heptode sect. Adj fil to 1.25.
40	3.0	40	RL	67	P4	65	Triode sect. Adj fil to 1.25.
135	1.0	-----	RL	100	P4	65	Adj fil to 2.3.
80	CCW	0	RL	68	P4	65	Adj fil to 2.35.
225	0	0	RL	21	P2	50	
150	0	0	RL	21	P2	50	Adj fil to 3.15.
225	0	0	RL	21	P2	50	Adj fil to 3.15.
75	5.7	67.5	RL	58	P4	65	Adj fil to 2.8.
80	CCW	0	RL	73	P4	65	Adj fil to 3.2.
20 AC	0	0	RL	66	P2	50	Diode #1. Adj fil to 3.15.
20 AC	0	0	RL	66	P2	50	Diode #2. Adj fil to 3.15.
250	CCW	150	RL	100	P4	65	Adj fil to 3.15.
250	2.0	------	RL	94	P4	65	Triode sect. Adj fil to 3.15.
20 AC	0	0	RL	58	P2	25	Diode #1. Adj fil to 3.15.
20 AC	0	0	RL	58	P2	25	Diode #2. Adj fil to 3.15.

*OK under 100 percent quality meter. (Tube voltage drop measured.)

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filament	Bias	Pl SCR	Gm SIG
3B2	EM	T	27 0A0 00	3.0	5	G	A
3B4	GM	T	45 371 00	2.5	50	H	D
3BA6	GM	T	34 156 72	3.0	A	N	C
3BC5	GM	T	34 156 20	3.0	D	J	C
3BE6	GM	T	34 165 27	3.0	5	N	A
3BN4	GM	T	34 250 10	3.0	D	G	B
3BN4A	GM	T	43 250 10	3.0	D	G	B
3BN6	GM	T	34 275 16	3.0	5	N	D
3BU8	GM	T	45 782 19	3.0	5	L	D
3BU8	GM	T	45 732 16	3.0	5	L	D
3BX6	GM	T	45 278 19	3.0	5	K	B
3BY6	GM	T	34 165 27	3.0	5	P	C
3BZ6	GM	T	34 156 27	3.0	D	H	B
3C2	EM	T	27 0A0 00	3.0	5	G	A
3C4	GM	T	17 623 00	2.5	10	N	C
3CB6	GM	T	34 156 27	3.0	D	H	B
3CE5	GM	T	34 156 20	3.0	D	H	B
3CF6	GM	T	34 156 27	3.0	D	H	B
3CS6	GM	T	34 165 27	3.0	5	N	C
3CY5	GM	T	34 156 20	3.0	5	L	B
3D6/1299	GM	T	81 623 00	3.0	5	N	D
3DK6	GM	T	34 156 27	3.0	A	K	B
3DT6	GM	T	34 156 27	3.0	E	L	C
3E5	GM	T	17 623 00	2.5	10	N	D
3E6	GM	T	18 623 04	3.0	5	N	D
3E29	GM	T	57 6B3 40	6.3	50	H	B
3E29	GM	T	51 2A3 40	6.3	50	H	B
3EA5	GM	T	43 156 20	3.0	5	J	B
3ER5	GM	T	43 256 70	3.0	5	M	B
3EV5	GM	T	34 156 20	3.0	5	M	B
3FH5	GM	T	34 250 70	3.0	5	M	B
3FQ5	GM	T	43 250 70	3.0	5	K	B
3FV5	GM	T	34 250 16	3.0	5	K	B
3GK5	GM	T	34 250 70	3.0	5	K	A
3GS8	GM	T	54 782 19	3.0	5	N	D
3GS8	GM	T	54 732 16	3.0	5	N	D
3LE4	GM	T	81 623 00	3.0	10	N	D
3LF4	GM	T	81 623 00	3.0	5	N	D
3Q4	GM	T	71 324 00	3.0	5	N	D
3Q5GT	GM	T	72 534 00	3.0	5	N	D
3S4	GM	T	17 324 00	3.0	10	N	D

Meter setting				Shunt	Press to test	Mini-mum limits	Notes
Plate	Bias	Screen	Sig VF				
225	0	0	RL	30	P2	50	Adj fil to 3.15.
200	25	150	RL	54	P4	50	
100	CCW	100	RL	48	P4	65	Adj fil to 3.15.
250	CCW	150	RL	35	P4	65	Adj fil to 3.15.
110	1.0	110	RL	98	P4	65	Adj fil to 3.15.
150	CCW	-----	RL	70	P4	65	Adj fil to 2.8.
150	CCW	-----	RL	55	P4	65	
75	2.0	67.5	RL	83	P4	65	Adj fil to 3.15.
150	1.0	100	RL	66	P4	65	Pentode #1. Adj fil to 3.15.
150	1.0	100	RL	66	P4	65	Pentode #2. Adj fil to 3.15.
170	2.0	170	RL	74	P4	65	Adjfil to 3.4.
100	2.0	50	RL	63	P4	65	Adj fil to 3.15.
200	CCW	150	RL	88	P4	65	Adj fil to 3.15.
150	0	------	RL	24	P2	50	Adj fil to 3.15.
85	5.2	85	RL	93	P4	65	Adj fil to 2.8.
200	CCW	150	RL	88	P4	65	Adj fil to 3.15.
200	CCW	150	RL	88	P4	65	Adj fil to 3.15.
200	CCW	150	RL	88	P4	65	Adj fil to 3.15.
80	1.0	80	RL	53	P4	65	Adj fil to 3.15.
125	1	80	RL	70	P4	65	Adj fil to 2.9.
90	4.5	90	RL	38	P4	65	Adj fil to 2.8.
125	CCW	125	RL	48	P4	65	Adj fil to 3.15.
150	CCW	100	RL	87	P4	65	Adj fil to 3.15.
90	8.0	90	RL	87	P4	65	
90	1.8	90	RL	74	P4	65	
220	10	155	RL	46	P4	60	Pentode #1.
220	10	155	RL	46	P4	60	Pentode #2.
250	1.0	140	RL	57	P4	65	
200	1.2	-----	RL	28	P4	65	Adj fil to 2.8.
195	1.2	80	RL	65	P4	63	Adj fil to 2.9.
135	1.0	-----	RL	44	P4	63	
135	1.2	-----	RL	24	P4	65	Adj fil to 2.8.
135	1.0	------	RL	20	P4	65	Adj fil to 3.1.
135	1.0	-----	RL	100	P4	65	Adj fil to 2.8.
100	0	67.5	RL	80	P4	65	Pentode #1. Adj fil to 9.15.
100	0	67.5	RL	80	P4	65	Pentode #2. Adj fil to 9.15.
90	9	90	RL	60	P4	60	Adj fil to 2.8.
90	4.5	90	RL	41	P4	65	Adj fil to 2.8.
90	4.5	90	RL	49	P4	65	Adj fil to 2.8.
90	4.5	90	RL	41	P4	65	Adj fil to 2.8.
75	7	67.5	RL	63	P4	65	Adj fil to 2.8.

225–370°—66——2

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIG
3V4	GM	T	17 623 00	3.0	5	N	D
4AU6	GM	T	34 156 72	4.2	C	N	C
4AV6	GM	T	34 170 20	4.2	5	J	D
4AV6	EM	T	34 060 20	4.2	5	S	B
4AV6	EM	T	34 050 20	4.2	5	S	B
4BA6	GM	T	34 156 72	4.2	A	M	C
4BC5	GM	T	34 156 20	4.2	C	J	B
4BC8	GM	T	45 760 89	4.2	D	G	C
4BC8	GM	T	45 210 39	4.2	D	G	C
4BE6	GM	T	34 165 27	4.2	5	N	A
4BL8	GM	T	54 263 71	4.2	5	K	B
4BL8	GM	T	54 910 86	4.2	5	N	C
4BN4	GM	T	34 250 10	4.2	D	G	B
4BN6	GM	T	34 275 16	4.2	5	N	D
4BQ7A	GM	T	45 760 89	4.2	D	G	C
4BQ7A	GM	T	45 210 39	4.2	D	G	C
4BS8	GM	T	45 760 80	4.2	D	G	B
4BS8	GM	T	45 210 30	4.2	D	G	B
4BU8	GM	T	45 782 19	4.2	5	L	D
4BU8	GM	T	45 732 16	4.2	5	L	D
4BX8	GM	T	45 760 89	4.2	5	P	B
4BX8	GM	T	45 210 39	4.2	5	P	B
4BZ6	GM	T	34 156 27	4.2	D	H	B
4BZ7	GM	T	45 760 89	4.2	D	G	B
4BZ7	GM	T	45 210 39	4.2	D	G	B
4BZ8	GM	T	45 760 89	4.2	B	M	B
4BZ8	GM	T	45 210 39	4.2	B	M	B
4CB6	GM	T	34 156 27	4.2	D	H	B
4CE5	GM	T	34 156 20	4.2	D	H	B
4CS6	GM	T	34 165 27	4.2	5	N	C
4CY5	GM	T	34 156 20	4.2	5	L	B
4DE6	GM	T	34 156 27	4.2	D	H	B
4DT6	GM	T	34 156 27	4.2	E	L	C
4ES8	GM	T	45 760 80	4.2	5	N	B
4ES8	GM	T	45 210 30	4.2	5	N	B
4EW6	GM	T	43 156 27	4.2	A	G	B
4GS8	GM	T	54 782 19	4.2	5	N	D
4GS8	GM	T	54 732 16	4.2	5	N	D
5AM8	GM	T	45 263 19	5.0	C	H	B
5AM8	EM	T	45 080 70	5.0	5	S	A
5AN8	GM	T	45 867 91	5.0	D	H	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VI				
90	4.5	90	RL	44	P4	67	Adj fil to 2.8.
100	CCW	100	RL	53	P4	65	
250	2.0	------	RL	63	P4	65	Triode sect.
20 AC	0		RL	58	P2	25	Diode #1.
20 AC	0	------	RL	58	P2	25	Diode #2.
220	CCW	100	RL	43	P4	65	
250	CCW	150	RL	93	P4	65	
150	CCW		RL	28	P4	65	Triode #1. Adj fil to 4.2.
150	CCW		RL	28	P4	65	Triode #2. Adj fil to 4.2.
110	1.0	110	RL	98	P4	65	
170	2.1	170	RL	82	P4	65	Pentode sect. Adj fil to 4.6.
100	2.0	------	RL	37	P4	65	Triode sect. Adj fil to 4.6.
150	CCW		RL	70	P4	65	
75	2.0	67.5	RL	83	P4	65	
150	CCW	------	RL	27	P4	65	Triode #1. Adj fil to 4.2.
150	CCW	------	RL	27	P4	65	Triode #2. Adj fil to 4.2.
150	CCW		RL	64	P4	65	Triode #1. Adj fil to 4.2.
150	CCW		RL	64	P4	65	Triode #2. Adj fil to 4.2.
150	1.0	100	RL	66	P4	65	Pentode #1.
150	1.0	100	RL	66	P4	65	Pentode #2.
65	1.5		RL	95	P4	65	Triode #1. Adj fil to 4.5.
65	1.5		RL	95	P4	65	Triode #2. Adj fil to 4.5.
200	CCW	150	RL	88	P4	65	
150	CCW	------	RL	74	P4	65	Triode #1. Adj fil to 4.2.
150	CCW	------	RL	74	P4	65	Triode #2. Adj fil to 4.2.
125	CCW	------	RL	62	P4	65	Triode #1.
125	CCW		RL	62	P4	65	Triode #2.
200	CCW	150	RL	88	P4	65	
200	CCW	150	RL	88	P4	65	
80	1.0	80	RL	53	P4	65	
125	1.0	80	RL	70	P4	65	Adj fil to 4.5.
200	CCW	150	RL	88	P4	65	
150	CCW	100	RL	87	P4	65	
90	1.7	------	RL	25	P4	65	Triode #1.
90	1.7		RL	25	P4	65	Triode #2.
150	CCW	125	RL	21	P4	65	
100	0	67.5	RL	80	P4	65	Pentode #1.
100	0	67.5	RL	80	P4	65	Pentode #2.
200	CCW	150	RL	95	P4	65	Pentode sect. Adj fil to 4.7.
20 AC	0	------	RL	86	P2	50	Diode sect. Adj fil to 4.7.
200	CCW	150	RL	88	P4	65	Pentode sect. Adj fil to 4.7.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIG
5AN8	GM	T	45 210 36	5.0	10	G	C
5AQ5	GM	T	34 156 20	5.0	10	K	C
5AS8	GM	T	45 291 37	5.0	D	H	B
5AS8	EM	T	45 060 87	5.0	5	S	B
5AT8	GM	T	45 967 38	5.0	D	J	C
5AT8	GM	T	45 120 30	5.0	B	N	B
5AV8	GM	T	45 698 70	5.0	D	H	B
5AV8	GM	T	45 230 10	5.0	10	G	C
5B8	GM	T	45 698 71	5.0	D	H	B
5B8	GM	T	45 230 19	5.0	10	G	C
5BE8	GM	T	45 967 83	5.0	A	J	B
5BE8	GM	T	45 120 30	5.0	A	M	B
5BK7A	GM	T	45 760 89	5.0	A	M	B
5BK7A	GM	T	45 210 39	5.0	A	M	B
5BQ7A	GM	T	45 760 89	5.0	D	G	C
5BQ7A	GM	T	45 210 39	5.0	D	G	C
5BR8	GM	T	45 967 80	5.0	A	J	B
5BR8	GM	T	45 120 30	5.0	A	M	B
5BS8	GM	T	45 760 80	5.0	D	G	B
5BS8	GM	T	45 210 30	5.0	D	G	B
5BT8	GM	T	45 867 90	5.0	C	H	B
5BT8	EM	T	45 010 30	5.0	5	S	B
5BT8	EM	T	45 020 30	5.0	5	S	B
5BW8	GM	T	54 698 70	5.0	A	J	B
5BW8	EM	T	54 030 21	5.0	5	S	A
5BW8	EM	T	54 010 23	5.0	5	S	A
5BZ7	GM	T	45 760 89	5.0	D	G	B
5BZ7	GM	T	45 210 39	5.0	D	G	B
5CG8	GM	T	45 967 80	5.0	D	J	C
5CG8	GM	T	45 120 30	5.0	B	N	B
5CL8	GM	T	45 967 80	5.0	5	G	B
5CL8	GM	T	45 120 30	5.0	A	K	B
5CM6	GM	T	45 391 70	5.0	10	K	C
5CM8	GM	T	45 267 30	5.0	D	H	B
5CM8	GM	T	45 910 80	5.0	5	G	C
5CQ8	GM	T	45 263 70	5.0	5	G	B
5CQ8	GM	T	45 910 80	5.0	A	K	B
5CZ5	GM	T	45 391 70	5.0	50	G	C
5DH8	GM	T	45 967 83	5.0	A	G	B
5DH8	GM	T	45 120 30	5.0	E	J	C
5EA8	GM	T	45 263 70	5.0	5	K	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VI				
200	6.0	-----	RL	52	P4	65	Triode sect. Adj fil to 4.7.
180	8.5	180	RL	54	P4	65	Adj fil to 4.7.
200	CCW	150	RL	88	P4	65	Pentode sect. Adj fil to 4.7.
20 AC	0		RL	18	P2	50	Diode sect. Adj fil to 4.7.
250	CCW	150	RL	42	P4	65	Pentode sect. Adj fil to 4.7.
100	CCW		RL	89	P4	65	Diode sect. Adj fil to 4.7.
200	CCW	150	RL	88	P4	65	Pentode sect. Adj fil to 4.7.
200	6.0		RL	52	P4	65	Triode sect. Adj fil to 4.7.
200	CCW	150	RL	88	P4	65	Pentode sect. Adj fil to 4.7.
200	6.0	-----	RL	52	P4	65	Triode sect. Adj fil to 4.7.
250	CCW	135	RL	92	P4	65	Pentode sect. Adj fil to 4.7.
150	CCW	------	RL	43	P4	65	Triode sect. Adj fil to 4.7.
150	CCW	------	RL	38	P4	65	Triode #1. Adj fil to 4.7.
150	CCW	------	RL	38	P4	65	Triode #2. Adj fil to 4.7.
150	CCW	------	RL	27	P4	65	Triode #1. Adj fil to 5.6.
150	CCW		RL	27	P4	65	Triode #2. Adj fil to 5.6.
250	CCW	135	RL	93	P4	65	Pentode sect. Adj fil to 4.7.
150	CCW		RL	43	P4	65	Triode sect. Adj fil to 4.7.
150	CCW	------	RL	64	P4	65	Triode #1. Adj fil to 5.6.
150	CCW	------	RL	64	P4	65	Triode #2. Adj fil to 5.6.
200	CCW	150	RL	77	P4	65	Pentode sect. Adj fil to 4.7.
20 AC	0		RL	28	P2	50	Diode #1. Adj fil to 4.7.
20 AC	0		RL	28	P2	50	Diode #2. Adj fil to 4.7.
250	CCW	135	RL	95	P4	65	Pentode sect. Adj fil to 4.7.
20 AC	0	------	RL	90	P2	50	Diode #1. Adj fil to 4.7.
20 AC	0		RL	90	P2	50	Diode #2. Adj fil to 4.7.
150	CCW	------	RL	74	P4	65	Triode #1. Adj fil to 5.6.
150	CCW		RL	74	P4	65	Triode #2. Adj fil to 5.6.
250	CCW	150	RL	42	P4	65	Pentode sect. Adj fil to 4.7.
100	CCW	------	RL	89	P4	65	Triode sect. Adj fil to 4.7.
150	1.0	125	RL	88	P4	65	Tetrode sect. Adj fil to 4.7.
125	CCW		RL	54	P4	65	Triode sect. Adj fil to 4.7.
180	8.5	180	RL	54	P4	65	Adj fil to 4.7.
200	CCW	150	RL	88	P4	65	Pentode sect. Adj fil to 4.7.
250	2.0		RL	83	P4	65	Triode sect. Adj fil to 4.7.
150	1.0	125	RL	83	P4	65	Tetrode sect. Adj fil to 4.7.
125	CCW	------	RL	55	P4	65	Triode sect. Adj fil to 4.7.
250	14.0	250	RL	39	P4	65	Adj fil to 4.7.
150	CCW	125	RL	48	P4	65	Pentode sect. Adj fil to 5.2.
200	CCW		RL	43	P4	65	Triode sect. Adj fil to 5.2.
150	1.0	125	RL	80	P4	65	Pentode sect. Adj fil to 4.7.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				ilamen	Bias	PI SCR	Im SIG
5EA8	GM	F	45 910 80	5.0	A	K	B
5EH8	GM	F	45 798 60	5.0	5	K	B
5EH8	GM	F	45 230 10	5.0	5	M	B
5ES8	GM	F	45 760 80	5.0	5	N	B
5ES8	GM	F	45 210 30	5.0	5	N	B
5EU8	GM	F	45 719 80	5.0	5	K	B
5EU8	GM	F	45 230 60	5.0	A	K	B
5EW6	GM	F	43 156 27	5.0	A	G	B
5FG7	GM	F	45 967 80	5.0	5	K	B
5FG7	GM	F	45 120 30	5.0	5	G	B
5FV8	GM	F	45 967 80	5.0	5	G	B
5FV8	GM	F	45 120 30	5.0	5	G	B
5GH8	GM	F	45 263 70	5.0	5	K	B
	GM	T	45 110 80	5.0	5	K	B
5J6	GM	T	34 520 76	5.0	B	N	B
5J6	GM	T	34 610 75	5.0	B	N	B
5R4G4	EM	T	28 060 00	5.0	5	R	A
5R4G4	EM	T	28 040 00	5.0	5	R	A
5T8	GM	T	45 890 70	5.0	5	G	D
5T8	EM	T	45 060 70	5.0	5	S	A
5T8	EM	T	45 020 30	5.0	5	S	A
5T8	EM	T	45 010 70	5.0	5	S	A
5U8	GM	T	45 263 70	5.0	A	J	B
5U8	GM	T	45 910 80	5.0	A	G	B
5V6	GM	T	27 534 80	5.0	50	K	C
5X8	GM	T	45 798 61	5.0	D	J	C
5X8	GM	T	45 230 60	5.0	B	N	B
6AB8	GM	T	45 968 37	6.3	10	K	C
6AB8	GM	T	45 210 30	6.3	5	N	D
6AJ8	GM	T	45 261 37	6.3	5	L	C
6AJ8	GM	T	45 980 36	6.3	5	L	C
6AK8	GM	T	45 890 76	6.3	5	J	D
6AK8	EM	T	45 060 79	6.3	5	S	B
6AK8	EM	T	45 020 30	6.3	5	S	A
6AK8	EM	T	45 010 79	6.3	5	S	A
6AN8	GM	T	45 867 91	6.3	D	H	B
6AN8	GM	T	45 210 36	6.3	10	G	C
6AQ4	GM	T	43 170 50	6.3	5	J	B
6AQ5	GM	T	34 156 22	6.3	C	G	C
6AQ8	GM	T	45 760 89	6.3	5	N	C
6AQ8	GM	T	45 210 39	6.3	5	N	C

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VI				
150	0	----	RL	50	P4	65	Triode sect. Adj fil to 4.7.
150	1.0	125	RL	85	P4	65	Pentode sect. Adj fil to 4.7.
125	1.0	----	RL	60	P4	65	Triode sect. Adj fil to 4.7.
90	1.7	----	RL	25	P4	65	Triode #1. Adj fil to 5.6.
90	1.7	----	RL	25	P4	65	Triode #2. Adj fil to 5.6.
150	1.0	125	RL	80	P4	65	Pentode sect. Adj fil to 4.7.
150	0	----	RL	50	P4	65	Triode sect. Adj fil to 4.7.
150	CCW	125	RL	21	P4	65	Adj fil to 5.6.
125	1.0	125	RL	85	P4	65	Pentode sect. Adj fil to 4.7.
125	1.1		RL	60	P4	65	Triode sect. Adj fil to 4.7.
125	1.0	125	RL	77	P4	63	Pentode sect. Adj fil to 4.7.
125	1.0	----	RL	57	P4	63	Triode sect. Adj fil to 4.7.
125	1.0	125	RL	70	P4	63	Pentode sect. Adj fil to 4.7.
125	1.0	------	RL	49	P4	63	Triode sect. Adj fil to 4.7.
100	CCW	------	RL	91	P4	65	Triode #1. Adj fil to 4.7.
100	CCW		RL	91	P4	65	Triode #2. Adj fil to 4.7.
35 AC	0	------	RL	52	P2	63	Diode #1.
35 AC	0	------	RL	52	P2	68	Diode #2.
250	3.0		RL	68	P4	65	Triode sect.
20 AC	0	------	RL	50	P2	50	Diode #1.
20 AC	0		RL	50	P2	50	Diode #2.
20 AC	0	------	RL	50	P2	50	Diode #3.
250	CCW	135	RL	95	P4	65	Pentode sect. Adj fil to 4.7.
150	CCW	------	RL	47	P4	65	Triode sect. Adj fil to 4.7.
180	8.5	180	RL	59	P4	65	Adj fil to 4.7.
250	CCW	150	RL	42	P4	65	Pentode sect. Adj fil to 4.7.
100	CCW	------	RL	89	P4	65	Triode sect. Adj fil to 4.7.
170	6.5	170	RL	66	P4	65	Pentode sect.
100	2.0	------	RL	73	P4	65	Triode sect.
200	1.5	150	RL	79	P4	65	Heptode sect.
150	1.5		RL	52	P4	65	Triode sect.
250	3.0	------	RL	55	P4	65	Triode sect.
20 AC	0	------	RL	65	P2	50	Diode #1.
20 AC	0	------	RL	90	P2	50	Diode #2.
20 AC	0	------	RL	90	P2	50	Diode #3.
200	CCW	150	RL	88	P4	65	Pentode sect.
200	6.0		RL	52	P4	65	Triode sect.
250	1.5		RL	42	P4	65	
230	12.5	225	RL	42	P4	58	Short in Z.
100	1.0	------	RL	50	P4	65	Triode #1.
100	1.0	------	RL	50	P4	65	Triode #2.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	PI SCR	Gr
6AR5	GM	T	34 156 22	6.3	50	G	
6AR6/6098	GM	T	68 735 10	6.3	50	G	
6AR8	GM	T	45 693 72	6.3	E	G	
6AR8	GM	T	45 683 71	6.3	E	G	
6AS8	GM	T	45 291 37	6.3	D	H	
6AS8	EM	T	45 060 80	6.3	5	S	
6AT8	GM	T	45 967 38	6.3	D	J	
6AT8	GM	T	45 120 30	6.3	B	N	
6AU7	GM	T	45 760 80	6.3	10	G	
6AU7	GM	T	45 210 30	6.3	10	G	
6AU8	GM	T	45 798 60	6.3	B	L	
6AU8	GM	T	45 230 10	6.3	C	L	
6AW7	GM	T	78 260 10	6.3	10	N	
6AW7	EM	T	78 230 50	6,3	5	S	
6AW7	EM	T	78 240 10	6.3	5	S	
6AW8	GM	T	45 798 60	6.3	D	H	
6AW8	GM	T	45 230 10	6.3	5	H	
6AX7	GM	T	45 760 80	6.3	5	G	
6AX7	GM	T	45 210 30	6.3	5	G	
6AX8	GM	T	45 263 70	6.3	B	J	
6AX8	GM	T	45 910 80	6.3	A	M	
6AZ5	EM	T	36 080 74	6.3	5	S	
6AZ5	EM	T	36 010 24	6.3	5	S	
6AZ6	EM	T	36 020 48	6.3	5	S	
6AZ6	EM	T	36 070 58	6.3	5	S	
6AZ8	GM	T	45 612 30	6.3	D	H	
6AZ8	GM	T	45 980 70	6.3	10	G	
6BA5	GM	T	36 157 80	6.3	E	N	
6BA8	GM	T	45 798 60	6.3	D	H	
6BA8	GM	T	45 230 10	6.3	10	G	
6BC4	GM	T	45 210 60	6.3	B	K	
6BC8	GM	T	45 760 89	6.3	D	G	
6BC8	GM	T	45 210 39	6.3	D	G	
6BE7	GM	T	45 716 82	6.3	5	N	
6BE8	GM	T	45 967 83	6.3	A	J	
6BE8	GM	T	45 120 30	6.3	A	M	
6BF5	GM	T	34 756 22	6.3	50	K	
6BG7	GM	T	36 780 50	6.3	B	N	
6BG7	GM	T	36 210 40	6.3	B	N	
6BH8	GM	T	45 798 60	6.3	A	L	
6BH8	GM	T	45 230 10	6.3	10	M	

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VR				
230	18	225	RL	36	P4	65	Short in Z.
230	22	225	RL	34	P4	65	
250	CCW	250	RL	53	P4	65	Plate #1.
250	CCW	250	RL	53	P4	65	Plate #2.
200	CCW	150	RL	88	P4	65	Pentode sect.
20 AC	0	------	RL	18	P2	50	Diode sect.
250	CCW	150	RL	42	P4	65	Pentode sect.
100	CCW	------	RL	89	P4	65	Triode sect.
250	8.5		RL	73	P4	65	Triode #1.
250	8.5		RL	73	P4	65	Triode #2.
200	CCW	125	RL	79	P4	65	Pentode sect.
150	CCW	------	RL	43	P4	65	Triode sect.
150	1.9	------	RL	100	P4	65	Triode sect.
20 AC	0	------	RL	22	P2	50	Diode #1.
20 AC	0	------	RL	22	P2	50	Diode #2.
200	CCW	150	RL	49	P4	65	Pentode sect.
200	2.0	------	RL	49	P4	65	Triode sect.
225	2.0	------	RL	100	P4	65	Triode #1.
225	2.0	------	RL	100	P4	65	Triode #2.
250	CCW	135	RL	38	P4	65	Pentode sect.
150	CCW		RL	50	P4	65	Triode sect.
20 AC	0	------	RL	85	P2	50	Diode #1.
20 AC	0		RL	85	P2	50	Diode #2.
20 AC	0		RL	21	P2	50	Diode #1.
20 AC	0		RL	21	P2	50	Diode #2.
200	CCW	150	RL	88	P4	65	Pentode sect.
200	6.0		RL	52	P4	65	Triode sect.
100	CCW	100	RL	90	P4	65	
200	CCW	150	RL	51	P4	65	Pentode sect.
200	8.0	------	RL	58	P4	65	Triode sect.
150	CCW	------	RL	40	P4	65	
150	CCW		RL	28	P4	65	Triode #1.
150	CCW		RL	28	P4	65	Triode #2.
70	2.0	70	RL	91	P4	65	
250	CCW	135	RL	92	P4	65	Pentode sect.
150	CCW		RL	43	P4	65	Triode sect.
125	6.8	100	RL	61	P4	60	Short in Z.
100	CCW		RL	41	P4	65	Triode #1.
100	CCW		RL	41	P4	65	Triode #2.
200	CCW	125	RL	60	P4	65	Pentode sect.
150	5.0		RL	58	P4	65	Triode sect.

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Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filament	Bias	Pl SCR	Gm SIG
6BJ7	EM	T	45 080 93	6.3	5	S	A
6BJ7	EM	T	45 060 73	6.3	5	S	A
6BJ7	EM	T	45 020 13	6.3	5	S	A
6BJ8	GM	T	45 870 90	6.3	10	G	C
6BJ8	EM	T	45 060 30	6.3	5	S	A
6BJ8	EM	T	45 010 20	6.3	5	S	A
6BL8	GM	T	54 263 71	6.3	5	K	B
6BL8	GM	T	54 910 86	6.3	5	N	C
	GM	T	45 367 20	6.3	10	N	B
6BM8	GM	T	45 190 80	6.3	5	N	C
6BN4	GM	T	34 250 10	6.3	D	G	B
6BN4A	GM	T	43 250 10	6.3	D	G	B
6BN8	GM	T	45 870 90	6.3	5	G	C
6BN8	EM	T	45 060 30	6.3	5	S	A
6BN8	EM	T	45 010 20	6.3	5	S	A
6BR5	ER	T	45 197 20	6.3	5	G	F
6BR5	ER	T	45 190 27	6.3	5	G	F
6BR8	GM	T	45 967 80	6.3	A	J	B
6BR8	GM	T	45 120 30	6.3	A	M	B
6BS7	GM	T	45 A78 39	6.3	5	M	D
6BS8	GM	T	45 760 80	6.3	D	G	B
6BS8	GM	T	45 210 30	6.3	D	G	B
6BT8	GM	T	45 867 90	6.3	C	H	B
6BT8	EM	T	45 010 30	6.3	5	S	B
6BT8	EM	T	45 020 30	6.3	5	S	B
6BU8	GM	T	45 782 19	6.3	5	L	D
6BU8	GM	T	45 732 16	6.3	5	L	D
6BV8	GM	T	45 230 10	6.3	E	G	B
6BV8	EM	T	45 090 70	6.3	5	S	B
6BV8	EM	T	45 060 80	6.3	5	S	B
6BW8	GM	T	45 698 70	6.3	A	J	B
6BW8	EM	T	45 030 21	6.3	5	S	A
6BW8	EM	T	45 010 23	6.3	5	S	A
6BX6	GM	T	45 278 19	6.3	5	K	B
6BX8	GM	T	45 760 89	6.3	5	P	B
6BX8	GM	T	45 210 39	6.3	5	P	B
6BY6	GM	T	34 165 27	6.3	5	P	C
6BY7	GM	T	45 278 19	6.3	5	M	B
6BY8	GM	T	45 178 92	6.3	C	N	C
6BY8	EM	T	45 060 30	6.3	5	S	A
6BZ6	GM	T	34 156 27	6.3	D	H	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VR				
20 AC	0	-------	RL	53	P2	50	Diode #1.
20 AC	0	-------	RL	53	P2	50	Diode #2.
20 AC	0	-------	RL	53	P2	50	Diode #3.
250	9.0	-------	RL	55	P4	65	Triode sect.
20 AC	0	-------	RL	85	P2	50	Diode #1.
20 AC	0	-------	RL	85	P2	50	Diode #2.
170	2.1	170	RL	82	P4	65	Pentode sect.
100	2.0	-------	RL	37	P4	65	Triode sect.
100	6.0	100	RL	70	P4	65	Pentode sect.
100	0	-------	RL	77	P4	65	Triode sect.
150	CCW	-------	RL	70	P4	65	
150	CCW	-------	RL	55	P4	65	
100	1.0	-------	RL	52	P4	65	Trode sect.
20 AC	0	-------	RL	45	P2	50	Diode #1.
20 AC	0	-------	RL	45	P2	50	Diode #2.
200	0	200	RL	0	P4	------	Eye open.
200	0	200	RL	0	P4	------	Eye closed.
150	CCW	135	RL	93	P4	65	Pentode sect.
150	CCW	-------	RL	43	P4	65	Triode sect.
210	3.0	100	RL	78	P4	65	
150	CCW	-------	RL	64	P4	65	Triode #1.
150	CCW	-------	RL	64	P4	65	Triode #2.
200	CCW	150	RL	77	P4	65	Pentode sect.
20 AC	0	-------	RL	28	P2	50	Diode #1.
20 AC	0	-------	RL	28	P2	50	Diode #2.
150	1.0	100	RL	66	P4	65	Pentode #1.
150	1.0	100	RL	66	P4	65	Pentode #2.
200	CCW	-------	RL	87	P4	65	Triode sect.
20 AC	0	-------	RL	19	P2	50	Diode #1.
20 AC	0	-------	RL	19	P2	50	Diode #2.
250	CCW	135	RL	95	P4	65	Pentode sect.
20 AC	0	-------	RL	90	P2	50	Diode #1.
20 AC	0	-------	RL	90	P2	50	Diode #2.
170	2.0	170	RL	74	P4	65	
65	1.5	-------	RL	95	P4	65	Triode #1.
65	1.5	-------	RL	95	P4	65	Triode #2.
100	2.0	50	RL	63	P4	65	
225	1.0	100	RL	85	P4	65	
100	CCW	100	RL	40	P4	65	Pentode sect.
20 AC	0	-------	RL	95	P2	50	Diode sect.
200	CCW	150	RL	88	P4	65	

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIG
6BZ8	GM	T	45 760 86	6.3	B	M	B
6BZ8	GM	T	45 210 39	6.3	B	M	B
6CA5	GM	T	34 276 10	6.3	10	K	B
6CA7	GM	T	27 534 81	6.3	50	G	B
6CB5	GM	T	27 4A1 30	6.3	50	K	B
6CD7	ER	T	72 450 80	6.3	50	K	E
6CE5	GM	T	34 156 20	6.3	D	H	B
6CF6	GM	T	34 156 27	6.3	D	H	B
6CG8	GM	T	45 967 80	6.3	D	J	C
6CG8	GM	T	45 120 30	6.3	B	N	B
6CH7	GM	T	45 760 80	6.3	D	G	B
6CH7	GM	T	45 210 30	6.3	D	G	B
6CH8	GM	T	45 723 60	6.3	D	H	B
6CH8	GM	T	45 890 10	6.3	10	G	C
6CK4	GM	T	72 150 80	6.3	50	G	C
6CL5	GM	T	72 5A1 60	6.3	50	K	B
6CL8	GM	T	45 967 80	6.3	5	G	B
6CL8	GM	T	45 120 30	6.3	A	K	B
6CM4	GM	T	45 210 30	6.3	5	K	B
6CM5	GM	T	72 5A4 80	6.3	10	N	B
6CM6	GM	T	45 391 70	6.3	10	K	C
6CM7	GM	T	45 760 30	6.3	10	G	C
6CM7	GM	T	45 810 90	6.3	10	G	C
6CM8	GM	T	45 267 30	6.3	D	H	B
6CM8	GM	T	45 910 80	6.3	5	G	C
6CN6	GM	T	72 5A4 91	6.3	10	G	B
6CN7	GM	T	45 780 60	6.3	5	G	D
6CN7	EM	T	45 020 30	6.3	5	S	A
6CN7	EM	T	45 010 30	6.3	5	S	A
6CQ8	GM	T	45 263 70	6.3	5	G	B
6CQ8	GM	T	45 910 80	6.3	A	K	B
6CR6	GM	T	34 756 10	6.3	5	M	C
6CR6	EM	T	34 020 10	6.3	5	S	B
6CR8	GM	T	45 267 38	6.3	5	G	B
6CR8	GM	T	45 910 80	6.3	5	M	C
6CS6	GM	T	34 165 27	6.3	5	N	C
6CS7	GM	T	45 760 80	6.3	50	G	C
6CS7	GM	T	45 310 90	6.3	50	G	B
6CU5	GM	T	34 276 10	6.3	50	K	B
6CU6	CM	T	27 5A4 80	6.3	50	J	B
6CU8	GM	T	45 723 60	6.3	D	H	B

Meter setting				Shunt	Press to test	Mini-mum limits	
Plate	Bias	Screen	Sig V				
125	CCW	-----	RL	62	P4	65	Triode #1.
125	CCW		RL	62	P4	65	Triode #2.
125	4.5	125	RL	45	P4	65	
250	13.5	250	RL	30	P4	65	
175	30.0	175	RL	52	P4	65	
200				0	P5	-----	
200	CCW	150	RL	88	P4	65	
200	CCW	150	RL	88	P4	65	
250	CCW	150	RL	42	P4	65	Pentode sect.
100	CCW	------	RL	89	P4	65	Triode sect.
150	CCW	------	RL	76	P4	65	Triode #1.
150	CCW	-----	RL	76	P4	65	Triode #2.
200	CCW	150	RL	88	P4	65	Pentode sect.
200	6.0	------	RL	52	P4	65	Triode sect.
250	28.0		RL	33	P4	65	
175	40.0	175	RL	77	P4	65	
150	1.0	125	RL	88	P4	65	Tetrode sect.
125	CCW	-----	RL	54	P4	65	Triode sect.
175	1.5	-----	RL	20	P4	65	
100	8.2	100	RL	22	P4	65	
180	8.5	180	RL	54	P4	65	
200	7.0	-----	RL	72	P4	65	Triode #1.
250	8.0		RL	36	P4	65	Triode #2.
200	CCW	150	RL	88	P4	65	Pentode sect.
250	2.0		RL	83	P4	65	Triode sect.
250	7.0	250	RL	22	P4	65	
250	3.0		EL	73	P4	65	Triode sect.
20 AC	0	------	RL	64	P2	50	Diode #1.
20 AC	0		RL	64	P2	50	Diode #2.
150	1	125	RL	83	P4	65	Tetrode sect.
125	CCW	------	RL	55	P4	65	Triode sect.
200	2.0	100	RL	86	P4	65	Pentode sect.
20 AC	0	------	RL	65	P2	50	Diode sect.
125	0.7	125	RL	58	P4	63	Pentode sect.
125	2.0	------	RL	49	P4	63	Triode sect.
80	1.0	80	RL	53	P4	65	
250	8.5		RL	78	P4	65	Triode #1.
250	10.5	------	RL	92	P4	65	Triode #2.
120	8.0	110	RL	64	P4	65	
250	22.5	150	RL	95	P4	65	
200	CCW	150	RL	88	P4	65	Pentode sect.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filament	Bias	Pl SCR	Gm SIG
6CU8	GM	T	45 890 10	6.3	10	G	C
6CW4	GM	T	31 420 80	6.3	5	N	B
6CW5	GM	T	45 279 30	6.3	50	K	B
6CW7	GM	T	45 690 70	6.3	5	P	B
6CW7	GM	T	45 230 10	6.3	5	P	B
6CX8	GM	T	45 798 60	6.3	A	J	B
6CX8	GM	T	45 230 10	6.3	C	L	C
6CY7	GM	T	45 760 80	6.3	5	J	D
6CY7	GM	T	45 210 90	6.3	E	N	B
6CZ5	GM	T	45 391 70	6.3	50	G	C
6DA6	GM	T	45 278 39	6.3	5	M	C
6DA7	GM	T	45 760 80	6.3	10	J	C
6DA7	GM	T	45 310 90	6.3	10	K	B
6DB5	GM	T	45 391 70	6.3	10	N	B
6DB6	GM	T	34 156 27	6.3	5	K	C
6DC8	GM	T	45 261 39	6.3	5	M	C
6DC8	EM	T	45 080 30	6.3	5	S	B
6DC8	EM	T	45 070 30	6.3	5	S	B
6DE6	GM	T	34 156 27	6.3	D	H	B
6DE7	GM	T	45 760 80	6.3	50	J	C
6DE7	GM	T	45 210 90	6.3	50	K	B
6DG6	GM	T	27 534 80	6.3	10	N	B
6DG7	GM	T	34 156 72	6.3	B	M	C
6DK6	GM	T	34 156 27	6.3	A	K	B
6DJ8	GM	T	45 760 80	6.3	5	N	B
6DJ8	GM	T	45 210 30	6.3	5	N	B
6DL5	GM	T	43 156 20	6.3	10	G	C
6DN6	GM	T	27 5A8 30	6.3	50	K	B
6DN7	GM	T	78 450 60	6.3	10	J	C
6DN7	GM	T	78 120 30	6.3	10	J	B
6DQ5	GM	T	72 1A4 30	6.3	50	J	B
6DQ6	GM	T	27 5A4 80	6.3	50	J	B
6DR7	GM	T	54 760 80	6.3	5	J	D
6DR7	GM	T	54 210 90	6.3	50	M	C
6DS5	GM	T	34 156 20	6.3	10	G	B
6DT5	GM	T	45 391 70	6.3	50	G	C
6DT6	GM	T	34 156 27	6.3	E	L	C
6DT8	GM	T	45 760 89	6.3	5	J	C
6DT8	GM	T	45 210 39	6.3	5	J	C
6DW5	GM	T	45 391 70	6.3	50	H	C

Meter setting				Shunt	Press to test	Mini-mum limits	Notes
Plate	Bias		Sig VF				
200	6.0	-----	RL	52	P4	65	Triode sect.
70	0.2	-----	RL	25	P4	65	Use Hickok adapter code #1050-127.
170	12.0	170	RL	55	P4	65	
90	1.5	-----	RL	80	P4	65	Triode #1.
90	1.5	-----	RL	80	P4	65	Triode #2.
200	CCW	125	RL	38	P4	65	Pentode sect.
150	CCW	-----	RL	41	P4	65	Triode sect.
225	3.0	-----	RL	74	P4	65	Triode #1.
90	CCW		RL	94	P4	65	Triode #2.
250	14.0	250	RL	39	P4	65	
225	2.0	100	RL	62	P4	65	
225	8.0	-----	RL	74	P4	65	Triode #1.
150	17.5	-----	RL	92	P4	65	Triode #2.
110	7.5	110	RL	65	P4	65	
150	1.5	150	RL	55	P4	65	
220	2.0	100	RL	53	P4	65	Pentode sect.
20 AC	0	-----	RL	44	P4	50	Diode #1.
20 AC	0	-----	RL	44	P4	50	Diode #2.
200	CCW	150	RL	88	P4	65	
225	12.0	-----	RL	88	P4	65	Triode #1.
150	26.0		RL	76	P4	65	Triode #2.
110	7.5	110	RL	60	P4	65	
175	CCW	80	RL	49	P4	65	
125	CCW	125	RL	48	P4	65	
90	1.3		RL	27	P4	65	Triode #1.
90	1.3		RL	27	P4	65	Triode #2.
250	9.0	250	RL	37	P4	63	
225	18.0	125	RL	45	P4	65	
250	8.0	-----	RL	73	P4	65	Triode #1.
250	9.5	-----	RL	50	P4	65	Triode #2.
200	25.0	125	RL	28	P4	65	
250	22.5	150	RL	87	P4	65	
250	3.0	-----	RL	56	P4	65	Triode #1.
150	17.5	-----	RL	52	P4	65	Triode #2.
200	7.5	200	RL	84	P4	65	
250	16.5	250	RL	47	P4	65	
150	CCW	100	RL	87	P4	65	
250	2.0	-----	RL	35	P4	65	Triode #1.
250	2.0		RL	35	P4	65	Triode #2.
210	22.5	150	RL	30	P4	60	

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SI(
6DX8	GM	T	45 869 70	6.3	10	K	B
6DX8	GM	T	45 120 30	6.3	5	K	C
6DZ7	GM	T	27 564 80	6.3	10	G	B
6DZ7	GM	T	27 134 80	6.3	10	G	B
6EA5	GM	T	43 156 20	6.3	5	J	B
6EA7	GM	T	78 450 60	6.3	10	J	D
6EA7	GM	T	78 120 30	6.3	50	L	B
6EA8	GM	T	45 263 70	6.3	5	K	B
6EA8	GM	T	45 910 80	6.3	A	K	B
6EB5	EM	T	34 070 10	6.3	5	S	A
6EB5	EM	T	34 020 50	6.3	5	S	A
6EB8	GM	T	45 798 60	6.3	B	J	B
6EB8	GM	T	45 230 10	6.3	5	J	C
6EH5	GM	T	34 276 10	6.3	10	K	B
6EH7	GM	T	45 278 19	6.3	5	M	A
6EH8	GM	T	45 798 60	6.3	5	K	B
6EH8	GM	T	45 230 10	6.3	5	M	B
6EJ7	GM	T	45 278 19	6.3	5	K	A
6EM5	GM	T	54 391 70	6.3	50	G	C
6EM7	GM	T	78 450 60	6.3	5	J	D
6EM7	GM	T	78 120 30	6.3	50	L	B
6EQ7	GM	T	45 276 31	6.3	5	N	C
6EQ7	EM	T	45 080 30	6.3	5	S	B
6ER5	GM	T	43 256 70	6.3	5	M	B
6ES5	GM	T	34 250 10	6.3	5	G	B
6ES8	GM	T	45 760 80	6.3	5	N	B
6ES8	GM	T	45 210 30	6.3	5	N	B
6ET7	GM	T	45 798 60	6.3	5	L	B
6ET7	EM	T	45 030 10	6.3	5	S	B
6ET7	EM	T	45 020 10	6.3	5	S	B
6EU7	GM	T	21 870 90	6.3	5	J	D
6EU7	GM	T	21 560 40	6.3	5	J	D
6EU8	GM	T	45 719 80	6.3	5	K	B
6EU8	GM	T	45 230 60	6.3	A	K	B
6EV5	GM	T	34 156 20	6.3	5	M	B
6EV7	GM	T	45 760 80	6.3	5	J	C
6EV7	GM	T	45 210 30	6.3	5	J	C
6EW6	GM	T	43 156 27	6.3	A	G	B
6EW7	GM	T	45 760 80	6.3	50	J	C
6EW7	GM	T	45 310 90	6.3	50	K	B

Plate	Bias	Screen	Sig VI	Shunt	Press to test	Minimum limits	Notes
200	2.8	200	RL	35	P4	65	Pentode sect.
200	2.1	-----	RL	55	P4	65	Triode sect.
250	7.3	250	RL	28	P4	63	Pentode #1.
250	7.3	250	RL	28	P4	63	Pentode #2.
250	1.0	140	RL	57	P4	65	
250	3.0	-----	RL	50	P4	63	Triode #1.
175	25	-----	RL	77	P4	62	Triode #2.
150	1.0	125	RL	80	P4	65	Pentode sect.
150	0	-----	RL	50	P4	65	Triode sect.
20 AC	0	0	RL	27	P2	40	Diode #1.
20 AC	0	0	RL	27	P2	40	Diode #2.
200	CCW	125	RL	30	P4	65	Pentode sect.
250	2.0	-----	RL	58	P4	65	Triode sect.
115	4.8	110	RL	49	P4	65	
200	2.0	90	RL	65	P4	65	
150	1.0	125	RL	85	P4	65	Pentode sect.
125	1.0	-----	RL	60	P4	65	Triode sect.
200	2.5	200	RL	100	P4	65	
250	18.0	250	RL	37	P4	65	
250	3.0	-----	RL	55	P4	63	Triode #1.
150	20.0	-----	RL	67	P4	63	Triode #2.
100	.6	100	RL	100	P4	65	
20 AC	0	-----	RL	52	P4	65	Pentode sect.
200	1.2	-----	RL	28	P4	65	
200	1.0	-----	RL	40	P4	63	
90	1.7	-----	RL	25	P4	65	Triode #1.
90	1.7	-----	RL	25	P4	65	Triode #2.
200	2.5	150	RL	29	P4	65	Pentode sect.
20 AC	0	-----	RL	63	P2	40	Diode #1.
20 AC	0	-----	RL	63	P2	40	Diode #2.
200	2.0	-----	RL	62	P4	65	Triode #1.
200	2.0	-----	RL	62	P4	65	Triode #2.
150	1.0	125	RL	80	P4	65	Pentode sect.
150	0	-----	RL	50	P4	65	Triode sect.
195	1.2	80	RL	65	P4	63	
250	2.0	-----	RL	35	P4	65	Triode #1.
250	2.0	-----	RL	35	P4	65	Triode #2.
150	CCW	125	RL	21	P4	65	
250	11	-----	RL	68	P4	65	Triode #1.
150	17.5	-----	RL	62	P4	65	Triode #2.

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Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIG
6EX6	GM	T	72 5A8 30	6.3	50	G	B
6EY6	GM	T	27 534 80	6.3	50	G	C
6EZ5	GM	T	72 534 80	6.3	50	J	C
6EZ8	GM	T	54 980 00	6.3	10	M	D
6EZ8	GM	T	54 760 00	6.3	10	M	D
6EZ8	GM	T	54 230 10	6.3	5	M	D
6FA7	GM	T	45 798 61	6.3	5	N	D
6FA7	GM	T	45 718 69	6.3	5	N	D
6FA7	EM	T	45 930 61	6.3	5	S	B
6FD6	EM	T	34 165 72	6.3	50	S	B
6FE5	GM	T	72 534 80	6.3	50	K	B
6FG5	GM	T	43 156 70	6.3	5	G	B
6FG7	GM	T	45 967 80	6.3	5	K	B
6FG7	GM	T	45 120 30	6.3	5	G	B
6FH5	GM	T	34 250 70	6.3	5	M	B
6FH6	GM	T	72 5A4 80	6.3	50	J	B
6FH8	GM	T	54 697 00	6.3	10	N	E
6FH8	GM	T	54 687 00	6.3	10	N	E
6FH8	GM	T	54 617 00	6.3	10	N	E
6FH8	EM	T	54 230 00	6.3	5	R	A
6FM8	GM	T	45 890 70	6.3	5	G	D
6FM8	EM	T	45 060 10	6.3	5	S	A
6FM8	EM	T	45 020 30	6.3	5	S	A
6FQ5	GM	T	43 250 70	6.3	5	K	B
6FQ5A	GM	T	34 250 70	6.3	5	M	B
6FQ7	GM	T	45 760 80	6.3	10	G	C
6FQ7	GM	T	45 210 30	6.3	10	G	C
6FS5	GM	T	34 156 70	6.3	5	J	B
6FV6	GM	T	43 156 70	6.3	5	L	C
6FV8	GM	T	45 967 80	6.3	5	G	B
6FV8	GM	T	45 120 30	6.3	5	G	B
6FW5	GM	T	27 158 30	6.3	50	J	C
6FW8	GM	T	45 760 80	6.3	5	L	B
6FW8	GM	T	45 210 30	6.3	5	L	B
6FY5	GM	T	34 250 16	6.3	5	K	B
6FY8	GM	T	45 367 20	6.3	50	K	B
6FY8	GM	T	45 190 80	6.3	5	M	D
6G5	ER	T	16 540 30	6.3	5	G	F
6G5	ER	T	16 542 30	6.3	5	G	F
6GC5	GM	T	45 691 70	6.3	50	K	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VR				
175	30.0	175	RL	43	P4	63	Tubes showing shorts: Retest 72 5A1 30.
250	17.5		RL	43	P4	63	
250	20.0	250	RL	45	P4	63	
125	5.6		RL	17	P4	63	Triode #1.
125	5.6	-----	RL	17	P4	63	Triode #2.
125	1.0		RL	17	P4	63	Triode #3.
100	1.4	100	RL	53	P4	65	Tetrode #1.
100	1.4	100	RL	53	P4	65	Tetrode #2.
200 AC	0	-----	RL	58	P2	25	Diode sect.
20 AC	0	-----	RL	60	P2	65	No leakage test.
130	11	130	RL	40	P4	65	
250	.2	250	RL	65	P4	65	
125	1.0	125	RL	85	P4	65	Pentode sect.
125	1.1	-----	RL	60	P4	65	Triode sect.
135	1.0	-----	RL	44	P4	63	
250	22.5	150	RL	87	P4	65	
100	8.0	100	RL	20	P4	63	Tetrode plate #1.
100	4.6	100	RL	40	P4	63	Tetrode plate #2.
100	4.6	100	RL	40	P4	63	Tetrode plate #3.
35 AC	0	-----	RL	19	P4	63	Triode sect.
250	3.0		RL	68	P4	65	Triode sect.
20 AC	0	-----	RL	50	P2	50	Diode #1.
20 AC	0	-----	RL	50	P2	50	Diode #2.
135	1.2	-----	RL	24	P4	65	
135	1.2		RL	31	P4	65	
250	8.0	-----	RL	75	P4	65	Triode #1.
250	8.0		RL	75	P4	65	Triode #2.
245	.2	135	RL	43	P4	65	
125	1.0	80	RL	35	P4	65	
125	1.0	125	RL	77	P4	63	Pentode sect.
125	1.0	-----	RL	57	P4	63	Triode sect.
250	22.5	150	RL	22	P4	65	
125	2.0	-----	RL	25	P4	65	Triode #1.
125	2.0	-----	RL	25	P4	65	Triode #2.
135	1.0		RL	20	P4	65	
125	10.0	125	RL	62	P4	63	Pentode sect.
125	1.5		RL	33	P4	63	Triode sect.
230	0	225	RL	0	P4		Eye open.
230	0	225	RL	0	P4		Eye closed.
115	7.5	115	RL	55	P4	65	

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filament	Bias	Pl SC	Gm SIC
6GE8	GM	T	45 891 76	6.3	5	K	C
6GE8	GM	T	45 360 29	6.3	50	K	B
6GH8	GM	T	45 263 70	6.3	5	K	B
6GH8	GM	T	45 910 80	6.3	5	K	B
6GK5	GM	T	34 250 70	6.3	5	K	A
6GK6	GM	T	45 278 13	6.3	10	G	B
6GM5	GM	T	45 691 70	6.3	10	G	B
6GM6	GM	T	43 156 27	6.3	5	J	B
6GM8	GM	T	45 760 80	6.3	5	Q	B
6GM8	GM	T	45 210 30	6.3	5	Q	B
6GN8	GM	T	45 798 60	6.3	5	L	B
6GN8	GM	T	45 230 10	6.3	5	J	D
6GS8	GM	T	54 782 19	6.3	5	N	D
6GS8	GM	T	54 732 16	6.3	5	N	D
6GW6	GM	T	27 5A4 80	6.3	50	J	B
6GX6	GM	T	34 156 27	6.3	D	L	C
6GY6	GM	T	34 156 27	6.3	D	H	C
6GY8	S	T	45 060 70	OFF	OFF		
6GY8	EM	T	45 060 70	6.3	5	S	A
6GY8	GM	T	54 390 80	6.3	5	M	C
6GY8	EM	T	54 120 00	6.3	5	S	B
6HB6	GM	T	45 278 19	6.3	B	G	A
6HF8	GM	T	45 798 60	6.3	B	J	B
6HF8	GM	T	45 230 10	6.3	5	J	C
6HJ8	GM	T	45 263 19	6.3	5	K	B
6HJ8	EM	T	45 680 79	6.3	5	S	A
6HS8	GM	T	45 782 19	6.3	5	N	D
6HS8	GM	T	45 732 16	6.3	5	N	D
6N8	GM	T	45 261 39	6.3	5	M	C
6N8	EM	T	45 271 39	6.3	5	S	B
6N8	EM	T	45 281 39	6.3	5	S	B
6R4	GM	T	45 180 30	6.3	5	K	C
6R8	GM	T	45 890 72	6.3	50	G	C
6R8	EM	T	45 010 78	6.3	5	S	A
6R8	EM	T	45 060 78	6.3	5	S	A
6R8	EM	T	45 020 39	6.3	5	S	A
6S8	GM	T	78 B60 20	6.3	5	G	D

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VF				
150	2.0	150	RL	63	P4	65	Pentode sect.
150	21.0	-----	RL	100	P4	65	Triode sect.
125	1.0	125	RL	70	P4	63	Pentode sect.
125	1.0	-----	RL	49	P4	63	Triode sect.
135	1.0	-----	RL	100	P4	65	
250	7.3	250	RL	46	P4	63	
250	7.0	250	RL	33	P4	65	
175	.8	125	RL	34	P4	65	
25	0	-----	RL	60	P4	65	Triode #1.
25	0	-----	RL	60	P4	65	Triode #2.
200	3.0	150	RL	28	P4	63	Pentode sect.
250	2.0	-----	RL	27	P4	63	Triode sect.
100	0	67.5	RL	80	P4	65	Pentode #1.
100	------	67.5	RL	80	P4	65	Pentode #2.
250	22.5	150	RL	67	P4	65	If tube oscillates, turn grid selector to "B ." Connect 1,000 ω, ½ W carbon resistor between pin 5 and top cap lead B.
150	CCW	100	RL	55	P4	65	
650	CCW	100	RL	54	P4	65	
--------	------	------	-------	-------		-----	Triode #1. Shorts test only.
125	0	-----	RL	70	P2	65	Triode #1. Short on V.
125	1.2	------	RL	42	P4	65	Triode #2.
35 AC	0		RL	12	P2	65	Triode #3.
250	CCW	250	RL	55	P4	65	
200	CCW	125	RL	30	P4	65	Pentode sect.
200	2.0	------	RL	45	P4	65	Triode sect.
125	.5	125	RL	41	P4	65	Pentode sect.
20 AC	0		RL	84	P2	25	Diode sect.
97.5	0	67.5	RL	84	P4	65	Pentode #1.
97.5	0	67.5	RL	84	P4	65	Pentode #2.
180	2.0	85	RL	84	P4	65	Pentode sect.
20 AC	0	------	RL	60	P2	50	Diode #1.
20 AC	0	------	RL	60	P2	50	Diode #2.
120	2.0	------	RL	49	P4	65	
250	9.0	------	RL	83	P4	65	Triode sect.
20 AC	0	------	RL	100	P2	50	Diode #1.
20 AC	0	------	RL	100	P2	50	Diode #2.
20 AC	0	------	RL	100	P2	50	Diode #3.
250	2.0	------	RL	86	P4	65	Triode sect.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIG
6S8	EM	T	78 030 50	6.3	5	S	B
6S8	EM	T	78 040 20	6.3	5	S	B
6S8	EM	T	78 010 20	6.3	5	S	B
6X6	ER	T	72 540 86	6.3	5	G	F
6X6	ER	T	72 543 86	6.3	5	G	F
7A6	EM	T	18 060 70	6.3	5	S	A
7A6	EM	T	18 030 20	6.3	5	S	A
7AD7	GM	T	18 623 74	6.3	5	F	B
7AG7	GM	T	18 623 74	6.3	5	N	C
7AH7	GM	T	18 623 74	6.3	5	G	C
7AJ7	GM	T	18 623 74	6.3	5	N	C
7AU7	GM	T	45 760 80	7.5	10	G	C
7AU7	GM	T	45 210 30	7.5	10	G	C
7EY6	GM	T	72 534 80	7.5	50	G	C
8AU8	GM	T	45 798 60	7.5	B	L	B
8AU8	GM	T	45 230 10	7.5	C	L	C
8AW8	GM	T	45 798 60	7.5	D	H	B
8AW8	GM	T	45 230 10	7.5	5	H	C
8BA8A	GM	T	45 798 60	7.5	D	H	B
8BA8A	GM	T	45 230 10	7.5	10	G	C
8BH8	GM	T	45 798 60	7.5	A	L	B
8BH8	GM	T	45 230 10	7.5	10	M	C
8BN8	GM	T	45 870 90	7.5	5	G	C
8BN8	GM	T	45 060 30	7.5	5	S	A
8BN8	EM	T	45 010 20	7.5	5	S	A
8BQ5	GM	T	45 279 30	7.5	10	G	B
8CG7	GM	T	45 760 89	7.5	10	G	C
8CG7	GM	T	45 210 39	7.5	10	G	C
8CM7	GM	T	45 760 30	7.5	10	G	C
8CM7	GM	T	45 810 90	7.5	10	G	C
8CN7	GM	T	45 780 60	7.5	5	G	D
8CN7	EM	T	45 020 30	7.5	5	S	A
8CN7	EM	T	45 010 30	7.5	5	S	A
8CS7	GM	T	45 760 80	7.5	50	G	C
8CS7	GM	T	45 310 90	7.5	50	G	B
8CX8	GM	T	45 798 60	7.5	A	J	B
8CX8	GM	T	45 230 10	7.5	C	L	C
8CY7	GM	T	45 760 80	7.5	5	J	D
8CY7	GM	T	45 210 90	7.5	E	N	B
8EB8	GM	T	45 798 60	7.5	B	J	B
8EB8	GM	T	45 230 10	7.5	5	J	C

Meter setting				Shunt	Press to test	Mini-num imits	Notes
Plate	Bias	Screer	Sig VR				
20 AC	0	-----	RL	50	P2	50	Diode #1.
20 AC	0		RL	50	P2	50	Diode #2.
20 AC	0	-----	RL	50	P2	50	Diode #3.
230	0	230	RL	0	P4	------	Eyes open.
230	0	230	RL	0	P4	------	Eyes closed.
20 AC	0	------	RL	40	P4	50	Diode #1.
20 AC	0	-----	RL	40	P2	50	Diode #2.
250	3.0	150	RL	43	P4	65	
100	1.0	100	RL	85	P4	65	
250	2.0	250	RL	61	P4	65	
100	1.0	100	RL	86	P4	65	
250	8.5		RL	75	P4	65	Triode #1. Adj fil to 7.0.
250	8.5	-----	RL	75	P4	65	Triode #2. Adj fil to 7.0.
250	17.5	250	RL	47	P4	65	Adj fil to 7.2.
200	CCW	125	RL	79	P4	65	Pentode sect. Adj fil t o 8.4.
150	CCW	-----	RL	43	P4	65	Triode sect. Adj fil to 8.4.
200	CCW	150	RL	49	P4	65	Pentode sect. Adj fil to 8.4.
200	2.0		RL	49	P4	65	Triode sect. Adj fil to 8.4.
200	CCW	150	RL	51	P4	65	Pentode sect. Adj fil to 8.4.
200	8.0	------	RL	58	P4	65	Triode sect. Adj fil to 8.4.
200	CCW	125	RL	60	P4	65	Pentode sect. Adj fil to 8.4.
150	5.0	------	RL	58	P4	65	Triode sect. Adj fil to 8.4.
100	1.0	------	RL	52	P4	65	Triode sect. Adj fil to 8.4.
20 AC	0	------	RL	45	P2	50	Diode #1. Adj fil to 8.4.
20 AC	0	------	RL	45	P2	50	Diode #2. Adj fil to 8.4.
250	7.2	250	RL	48	P4	65	Adjust fil to 8.0.
250	8.0	------	RL	75	P4	65	Triode #1. Adj fil to 8.4.
250	8.0	------	RL	75	P4	65	Triode #2. Adj fil to 8.4.
200	7.0	------	RL	72	P4	65	Triode #1. Adj fil to 8.4.
250	8.0	------	RL	36	P4	65	Triode #2. Adj fil to 8.4.
250	3.0	------	RL	73	P4	65	Triode sect. Adj fil to 8.4.
20 AC	0	-----	RL	64	P2	50	Diode #1. Adj fil to 8.4.
20 AC	0	-----	RL	64	P2	50	Diode #2.
250	8.5	-----	RL	78	P4	65	Triode #1. Adj fil to 8.4.
250	10.5	-----	RL	92	P4	65	Triode #2. Adj fil to 8.4.
200	CCW	125	RL	38	P4	65	Pentode sect. Adj fil to 8.0.
150	CCW	-----	RL	41	P4	65	Triode sect. Adj fil to 8.0.
225	3.0	-----	RL	74	P4	65	Triode #1. Adj fil to 7.9.
90	CCW	-----	RL	94	P4	65	Triode #2. Adj fil to 7.9.
200	CCW	125	RL	30	P4	65	Pentode sect. Adj fil to 8.0.
250	2.0	------	RL	58	P4	65	Triode sect. Adj fil to 8.0.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIC
8EM5	GM	T	45 391 70	7.5	50	G	C
8ET7	GM	T	45 798 60	7.5	5	L	B
8ET7	EM	T	45 030 10	7.5	5	S	B
8ET7	EM	T	45 020 10	7.5	5	S	B
8FQ7	GM	T	45 700 80	7.5	10	G	C
8FQ7	GM	T	45 210 30	7.5	10	G	C
8GN8	GM	T	45 798 60	7.5	5	L	B
8GN8	GM	T	45 230 30	7.5	5	J	D
88N7	GM	T	78 450 60	7.5	10	G	C
88N7	GM	T	78 120 30	7.5	10	G	C
9AU7	GM	T	45 760 80	10	10	G	C
9AU7	GM	T	45 210 30	10	10	G	C
9BR7	GM	T	54 210 30	10.0	E	J	B
9BR7	EM	T	54 070 80	10.0	5	S	A
9BR7	EM	T	54 060 80	10.0	5	S	A
9CL8	GM	T	45 967 80	10	5	G	B
9CL8	GM	T	45 120 30	10	A	K	B
9DZ8	GM	T	45 367 20	10	D	K	B
9DZ8	GM	T	45 190 80	10	5	K	D
9U8	GM	T	45 263 70	10	A	J	B
9U8	GM	T	45 910 80	10	A	G	B
9X8	GM	T	45 798 61	10	D	J	C
9X8	GM	T	45 230 60	10	B	N	B
10BQ5	GM	T	45 279 30	10.0	10	G	B
10C8	GM	T	45 867 90	10	B	G	B
10C8	GM	T	45 210 30	10	E	G	C
10DA7	GM	T	45 760 80	10	10	J	C
10DA7	GM	T	45 310 90	10	10	K	B
10DE7	GM	T	45 760 80	10	50	J	C
10DE7	GM	T	45 210 90	10	50	K	B
10DR7	GM	T	54 760 80	10.0	5	J	D
10DR7	GM	T	54 210 90	10.0	50	M	C
10EG7	GM	T	78 450 60	10.0	50	J	C
10EG7	GM	T	78 120 30	10.0	50	M	B
10EM7	GM	T	78 450 60	10.0	5	J	D
10EM7	GM	T	78 120 30	10.0	50	L	B
10HF8	GM	T	45 798 60	10.0	B	J	B
10HF8	GM	T	45 230 10	10.0	5	J	C
11C5	GM	T	34 576 10	10	50	K	B
11CY7	GM	T	45 760 80	10	5	J	D
11CY7	GM	T	45 210 90	10	E	N	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig V]				
250	18.0	250	RL	37	P4	65	Adj fil to 8.0.
200	2.5	150	RL	29	P4	65	Pentode sect.
20 AC	0	-------	RL	63	P2	40	Diode #1.
20 AC	0	-------	RL	63	P2	40	Diode #2.
250	8.0	-------	RL	75	P4	65	Triode #1. Adj fil to 8.4V.
250	8.0	-------	RL	75	P4	65	Triode #2. Adj fil to 8.4V.
200	3.0	150	RL	28	P4	63	Pentode sect. Adj fil to 8.0.
250	2.0	-------	RL	27	P4	63	Triode sect. Adj fil to 8.0.
250	8.0	-------	RL	75	P4	65	Triode #1. Adj fil to 8.4.
250	8.0	-------	RL	75	P4	65	Triode #2. Adj fil to 8.4.
250	8.5	-------	RL	75	P4	65	Triode #1. Adj fil to 9.4.
250	8.5	-------	RL	75	P4	65	Triode #2. Adj fil to 9.4.
250	CCW	-------	RL	95	P4	65	Triode sect. Adj fil to 9.4.
20 AC	0	-------	RL	65	P2	40	Diode #1. Adj fil to 9.4.
20 AC	0	-------	RL	65	P2	40	Diode #2.
150	1.0	125	RL	88	P4	65	Tetrode sect. Adj fil to 9.5.
125	CCW	-------	RL	54	P4	65	Triode sect. Adj fil to 9.5.
145	CCW	120	RL	60	P4	65	Pentode sect. Adj fil to 9.0.
120	1.9	-------	RL	70	P4	65	Triode sect. Adj fil to 9.0.
250	CCW	135	RL	95	P4	65	Pentode sect. Adj fil to 9.45.
150	CCW	-------	RL	53	P4	65	Triode sect. Adj fil to 9.45.
250	CCW	150	RL	42	P4	65	Pentode sect. Adj fil to 9.5.
100	CCW	-------	RL	89	P4	65	Triode sect. Adj fil to 9.5.
250	7.2	250	RL	48	P4	65	Adj fil to 10.6.
135	CCW	135	RL	45	P4	65	Pentode sect. Adj fil to 10.5.
250	CCW	-------	RL	95	P4	65	Triode sect. Adj fil to 10.5.
225	8.0	-------	RL	74	P4	65	Triode #1.
150	17.5	-------	RL	92	P4	65	Triode #2.
225	12.0	-------	RL	88	P4	65	Triode #1.
150	26.0	-------	RL	76	P4	65	Triode #2.
250	3.0	-------	RL	56	P4	65	Triode #1.
150	17.5	-------	RL	52	P4	65	Triode #2.
225	12.0	-------	RL	88	P4	63	Triode #1.
150	17.5	-------	RL	62	P4	63	Triode #2.
250	3.0	-------	RL	55	P4	65	Triode #1. Adj fil to 9.7.
150	20.0	-------	RL	67	P4	65	Triode #2. Adj fil to 9.7.
200	CCW	125	RL	30	P4	65	Pentode sect. Adj fil to 10.5.
200	2.0	-------	RL	50	P4	65	Triode sect. Adj fil to 10.5.
135	8.2	120	RL	70	P4	65	Adj fil to 11.6.
225	3.0	-------	RL	74	P4	65	Triode #1. Adj fil to 11.0.
90	CCW	-------	RL	94	P4	65	Triode #2. Adj fil to 11.0.

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Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIG
12AB5	GM	T	45 391 70	12.6	10	K	C
12AC6	EM	T	34 256 71	12.6	5	S	B
12AD6	EM	T	34 756 21	12.6	5	S	B
12AD7	GM	T	45 760 80	12.6	5	G	C
12AD7	GM	T	45 210 30	12.6	5	G	C
12AE6	EM	T	34 070 21	12.6	5	S	C
12AE6	EM	T	34 060 20	12.6	5	S	B
12AE6	EM	T	34 050 20	12.6	5	S	B
12AE7	EM	T	45 060 87	12.6	5	S	B
12AE7	EM	T	45 010 32	12.6	5	S	B
12AF6	EM	T	34 256 71	12.6	5	S	B
12AG6	EM	T	34 756 21	12.6	5	S	B
12AJ6	EM	T	34 070 21	12.6	5	S	C
12AJ6	EM	T	34 060 20	12.6	5	S	B
12AJ6	EM	T	34 050 20	12.6	5	S	B
12AJ7	GM	T	45 261 37	12.6	5	L	C
12AJ7	GM	T	45 980 36	12.6	5	L	C
12AL8	EM	T	45 312 70	12.6	5	S	A
12AL8	EM	T	45 860 90	12.6	5	S	B
12AQ5	GM	T	34 156 20	12.6	10	K	C
12AS5	GM	T	34 276 10	12.6	10	L	C
12AU8	GM	T	45 798 60	12.6	B	L	B
12AU8	GM	T	45 230 10	12.6	D	M	C
12AV5	GM	T	27 158 30	12.6	50	J	B
12BD6	GM	T	34 156 72	12.6	5	N	C
12BK5	GM	T	45 318 60	12.6	10	G	B
12BL6	EM	T	34 256 71	12.6	5	S	B
12BN6	GM	T	34 275 16	12.6	5	N	D
12BQ6	GM	T	27 5A4 80	12.6	50	J	B
12BR7	GM	T	45 210 30	12.6	D	G	B
12BR7	EM	T	45 070 80	12.6	5	S	A
12BR7	EM	T	45 060 80	12.6	5	S	A
12BV7	GM	T	45 278 13	12.6	A	J	B
12BZ6	GM	T	34 156 27	12.6	D	H	B
12BZ7	GM	T	45 760 80	12.6	5	G	C
12BZ7	GM	T	45 210 30	12.6	5	G	C
12C5	GM	T	34 276 10	12.6	10	N	B
12CA5	GM	T	34 276 10	12.6	10	K	B
12CM6	GM	T	45 391 70	12.6	10	K	C
12CN5	EM	T	34 670 12	12.6	5	S	B
12CR6	GM	T	34 756 10	12.6	5	G	C

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig V]				
180	8.5	180	RL	54	P4	65	
20 AC	0		RL	81	P2, P3	65	
20 AC	0		RL	45	P2, P3	65	
250	2.0		RL	92	P4	65	Triode #1.
250	2.0	------	RL	92	P4	65	Triode #2.
20 AC	0		RL	44	P2	65	Triode sect.
20 AC	0	-----	RL	55	P2	65	Diode #1.
20 AC	0		RL	55	P2	65	Diode #2.
20 AC	0		RL	25	P2	65	Triode #1.
20 AC	0	-----	RL	20	P2	65	Triode #2.
20 AC	0		RL	58	P2, P3	65	
20 AC	0		RL	47	P2, P3	65	
20 AC	0		RL	63	P2	65	Triode sect.
20 AC	0		RL	52	P2	65	Diode #1.
20 AC	0		RL	52	P2	65	Diode #2.
200	1.5	150	RL	65	P4	65	Heptode sect.
150	1.5		RL	42	P4	65	Triode sect.
20 AC	0		RL	85	P2, P3	65	Tetrode sect.
20 AC	0		RL	25	P2, P3	65	Triode sect.
180	8.5	180	RL	54	P4	65	
150	8.3	110	RL	36	P4	65	
200	OCW	125	RL	75	P4	65	Pentode sect.
150	OCW		RL	44	P4	65	Triode sect.
250	22.5	150	RL	95	P4	65	
100	1.0	100	RL	78	P4	65	
250	5.0	250	RL	52	P4	65	
20 AC	0	-----	RL	45	P2	65	
75	2.0	67.5	RL	83	P4	65	
250	22.5	150	RL	95	P4	65	
250	OCW		RL	95	P4	65	Triode sect.
20 AC	0		RL	57	P2	50	Diode #1.
20 AC	0		RL	57	P2	50	Diode #2.
250	OCW	150	RL	25	P4	65	
200	OCW	150	RL	88	P4	65	
250	2.0		RL	58	P4	65	Triode #1.
250	2.0	-----	RL	58	P4	65	Triode #2.
100	6.0	100	RL	61	P4	65	
125	4.5	125	RL	45	P4	65	
180	8.5	180	RL	54	P4	65	
20 AC	0		RL	32	P2	65	
200	2.0	100	RL	86	P4	65	Pentode sect.

Tube type	Test	Functio	Selectors (L. to R.)	Range			
				[illegible]	Bias	Pl SCR	Gm SIG
12CR6	EM	T	34 020 10	12.6	5	S	B
12CS6	GM	T	34 165 27	12.6	5	N	C
12CT8	GM	T	45 867 90	12.6	B	L	B
12CT8	GM	T	45 210 30	12.6	C	L	C
12CU5	GM	T	34 276 10	12.6	50	K	B
12CU6	GM	T	27 5A4 80	12.6	50	J	B
12CX6	EM	T	34 156 72	12.6	5	S	F
12DB5	GM	T	45 391 70	12.6	10	N	B
12DE8	EM	T	45 168 97	12.6	5	S	F
12DE8	EM	T	45 030 20	12.6	5	S	F
12DF7	GM	T	45 760 80	12.6	5	J	D
12DF7	GM	T	45 210 30	12.6	5	J	D
12DK7	EM	T	45 173 20	12.6	5	S	F
12DK7	EM	T	45 060 80	12.6	5	S	F
12DK7	EM	T	45 090 80	12.6	5	S	F
12DL8	EM	T	45 763 20	12.6	5	S	F
12DL8	EM	T	45 090 80	12.6	5	S	F
12DL8	EM	T	45 010 80	12.6	5	S	F
12DM5	GM	T	34 276 10	12.6	10	N	B
12DQ6	GM	T	27 5A4 80	12.6	50	J	B
12DQ7	GM	T	45 278 19	12.6	A	J	B
12DT5	GM	T	45 391 70	12.6	50	G	C
12DT7	GM	T	45 760 80	12.6	5	J	D
12DT7	GM	T	45 210 30	12.6	5	J	D
12DT8	GM	T	45 760 89	12.6	5	J	C
12DT8	GM	T	45 210 39	12.6	5	J	C
12DU7	EM	T	54 163 20	12.6	5	S	A
12DU7	EM	T	54 090 20	12.6	5	S	B
12DU7	EM	T	54 070 20	12.6	5	S	B
12DV7	EM	T	54 060 87	12.6	5	S	C
12DV7	EM	T	54 030 10	12.6	5	S	B
12DV7	EM	T	54 020 10	12.6	5	S	B
12DV8	EM	T	45 763 20	12.6	5	S	A
12DV8	EM	T	45 090 80	12.6	5	S	B
12DV8	EM	T	45 010 80	12.6	5	S	B
12DW5	GM	T	45 391 70	12.6	50	H	C
12DW7	GM	T	45 760 80	12.6	5	J	D
12DW7	GM	T	45 210 30	12.6	10	J	C
12DW8	EM	T	54 760 80	12.6	5	S	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VR				
20 AC	0	------	RL	65	P2	50	Diode sect.
80	1.0	80	RL	53	P4	65	
200	CCW	130	RL	69	P4	65	Pentode sect.
150	CCW	------	RL	40	P4	65	Triode sect.
120	8.0	110	RL	64	P4	65	
250	22.5	150	RL	95	P4	65	
20 AC	0	------	RL	20	P2, P3	65	
110	7.5	110	RL	65	P4	65	
20 AC	0	------	RL	22	P2, P3	65	Pentode sect.
20 AC	0	------	RL	20	P2	50	Diode sect.
250	2.0	------	RL	50	P4	65	Triode #1.
250	2.0	------	RL	50	P4	65	Triode #2.
20 AC	0	------	RL	18	P2, P3	65	Tetrode sect.
20 AC	0	------	RL	60	P2	50	Diode #1.
20 AC	0	------	RL	60	P2	50	Diode #2.
20 AC	0	------	RL	17	P2, P3	65	Tetrode sect.
20 AC	0	------	RL	46	P2	50	Diode #1.
20 AC	0	------	RL	46	P2	50	Diode #2.
100	6.0	100	RL	61	P4	65	
250	22.5	150	RL	87	P4	65	
200	CCW	125	RL	38	P4	65	
250	16.5	250	RL	47	P4	65	
250	2.0	------	RL	60	P4	65	Triode #1.
250	2.0	------	RL	60	P4	65	Triode #2.
250	2.0	------	RL	35	P4	65	Triode #1.
250	2.0		RL	35	P4	65	Triode #2.
20 AC	0	------	RL	59	P2, P3	65	Tetrode sect. Make no gas test.
20 AC	0	------	RL	76	P2	40	Diode #1.
20 AC	0	------	RL	76	P2	40	Diode #2.
20 AC	0	------	RL	48	P2	65	Triode sect. Make no gas test.
20 AC	0	------	RL	76	P2	40	Diode #1.
20 AC	0	------	RL	76	P2	40	Diode #2.
20 AC	0		RL	85	P2, P3	65	Tetrode sect.
20 AC	0	------	RL	60	P2	50	Diode #1.
20 AC	0		RL	60	P2	50	Diode #2.
210	22.5	150	RL	30	P4	60	
225	2.0	------	RL	52	P4	67	Triode #1.
225	8.5	------	RL	75	P4	65	Triode #2.
20 AC	0	------	RL	28	P2	65	Triode #1.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filament	Bias	Pl SCR	Gm SIG
12DW8	EM	T	54 210 30	12.6	5	S	B
12DY8	EM	T	45 163 20	12.6	5	S	A
12DY8	EM	T	45 980 70	12.6	5	S	A
12DZ6	EM	T	45 156 72	12.6	5	S	C
12DZ8	GM	T	45 367 20	12.6	D	K	B
12DZ8	GM	T	45 190 80	12.6	5	K	D
12EA6	EM	T	43 156 72	12.6	5	S	A
12EC8	EM	T	45 967 80	12.6	5	S	A
12EC8	EM	T	45 102 30	12.6	5	S	A
12ED5	GM	T	34 276 10	12.6	10	K	B
12EG6	EM	T	34 756 21	12.6	5	S	F
12EH5	GM	T	34 276 10	12.6	10	K	B
12EK6	EM	T	43 156 72	12.6	5	S	A
12EL6	EM	T	43 020 71	12.6	5	S	F
12EL6	EM	T	43 060 70	12.6	5	S	F
12EL6	EM	T	43 050 70	12.6	5	S	F
12EM6	EM	T	45 163 20	12.6	5	S	F
12EM6	EM	T	45 090 80	12.6	5	S	F
12EN6	GM	T	27 534 80	12.6	10	M	B
12EQ7	GM	T	45 276 31	12.6	5	N	C
12EQ7	EM	T	45 080 30	12.6	5	S	B
12EZ6	EM	T	43 156 72	12.6	5	S	A
12F8	EM	T	45 239 78	12.6	5	S	B
12F8	EM	T	45 060 70	12.6	5	S	B
12F8	EM	T	45 010 70	12.6	5	S	B
12FK6	EM	T	43 170 20	12.6	5	S	C
12FK6	EM	T	43 060 20	12.6	5	S	B
12FK6	EM	T	43 050 20	12.6	5	S	B
12FM6	EM	T	34 070 21	12.6	5	S	B
12FM6	EM	T	34 060 20	12.6	5	S	B
12FM6	EM	T	34 050 20	12.6	5	S	B
12FQ8	GM	T	45 780 90	12.6	5	J	D
12FQ8	GM	T	45 760 90	12.6	5	J	D
12FQ8	GM	T	45 230 90	12.6	5	J	D
12FQ8	GM	T	45 210 90	12.6	5	J	D
12FR8	EM	T	45 367 00	12.6	5	S	D
12FR8	EM	T	45 190 20	12.6	5	S	D
12FR8	EM	T	45 080 20	12.6	5	S	D
12FT6	EM	T	43 170 20	12.6	5	S	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VI				
20 AC	0		RL	17	P2	65	Triode #2.
20 AC	0		RL	88	P2, P3	65	Tetrode sect.
20 AC	0		RL	88	P2, P3	65	Triode sect.
20 AC	0		RL	96	P2, P3	65	
145	CCW	120	RL	60	P4	65	Pentode sect.
120	1.9		RL	70	P4	65	Triode sect.
20 AC	0		RL	80	P2. P3	65	
20 AC	0		RL	80	P2, P3	65	Pentode sect.
20 AC	0		RL	80	P2, P3	65	Triode sect.
125	4.5	125	RL	47	P4	65	
20 AC	0		RL	32	P2, P3	65	
115	4.8	110	RL	49	P4	65	
20 AC	0		RL	80	P2, P3	65	
20 AC	0		RL	90	P2	40	Triode sect.
20 AC	0		RL	57	P2	65	Diode #1.
20 AC	0		RL	57	P2	65	Diode #2.
20 AC	0		RL	18	P2, P3	65	Tetrode sect.
20 AC	0		RL	60	P2	50	Diode sect.
200	9.0	110	RL	75	P4	65	
100	0.6	100	RL	52	P4	65	Pentode sect.
20 AC	0		RL	58	P2	25	Diode sect.
20 AC	0.7		RL	80	P2, P3	65	
20 AC	0		RL	80	P2, P3	65	Pentode sect.
20 AC	0		RL	61	P2	65	Diode #1.
20 AC	0		RL	61	P2	65	Diode #2.
20 AC	1.0		RL	36	P2	65	Triode sect.
20 AC	0		RL	49	P2	40	Diode #1.
20 AC	0		RL	49	P2	40	Diode #2.
20 AC	0		RL	67	P2	65	Triode sect. Make no gas test
20 AC	0		RL	50	P2	40	Diode #1.
20 AC	0		RL	58	P2	40	Diode #2.
250	1.5		RL	72	P4	63	Triode #1. Plate #1.
250	1.5		RL	72	P4	63	Triode #1. Plate #2.
250	1.5		RL	72	P4	63	Triode #2. Plate #1.
250	1.5		RL	72	P4	63	Triod #2. Plate #2.
20 AC	3.1		RL	10	P2	65	Pentode sect.
20 AC	.5		RL	27	P2	65	Triode sect.
20 AC	0		RL	20	P2	40	Diode sect.
20 AC	0		RL	64	P2	65	Triode sect. Make no gas test.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	P1 SCR	3m SIG
12FT6	EM	T	43 060 20	12.6	5	S	B
12FT6	EM	T	43 050 20	12.6	5	S	B
12FX8	EM	T	45 231 79	12.6	5	S	B
12FX8	EM	T	45 080 06	12.6	5	S	B
12G4	GM	T	34 610 70	12.6	10	G	C
12G8	EM	T	45 060 78	12.6	5	S	B
12G8	EM	T	45 010 23	12.6	5	S	B
12GA6	EM	T	34 756 21	12.6	5	S	B
12GC6	GM	T	72 5A8 30	12.6	50	J	B
12GW6	GM	T	27 5A4 80	12.6	50	J	B
	EM	T	45 163 20	12.6	5	S	A
12J8	EM	T	45 090 70	12.6	5	S	A
12J8	EM	T	45 080 70	12.6	5	S	A
12K5	EM	T	34 570 12	12.6	5	S	A
12L6	GM	T	27 534 80	12.6	C	J	B
12R5	GM	T	34 276 10	12.6	10	N	B
12S8	GM	T	78 B60 20	12.6	5	G	D
12S8	EM	T	78 030 50	12.6	5	S	B
12S8	EM	T	78 040 20	12.6	5	S	B
	EM	T	78 010 20	12.6	5	S	B
12U7	EM	T	45 060 87	12.6	5	S	B
12U7	EM	T	45 010 32	12.6	5	S	B
12V6	GM	T	27 534 80	12.6	10	K	C
12W6	GM	T	27 534 80	12.6	C	J	B
13DE7	GM	T	45 760 80	12.6	50	J	C
13DE7	GM	T	45 210 90	12.6	50	K	B
13DR7	GM	T	54 760 80	12.6	5	J	D
13DR7	GM	T	54 210 90	12.6	50	M	C
13EM7	GM	T	87 450 60	14.0	5	G	D
13EM7	GM	T	87 120 30	14.0	50	K	C
13FR7	GM	T	45 760 80	12.6	5	G	D
13FR7	GM	T	45 310 90	12.6	50	K	C
14GT8	GM	T	45 890 70	14.0	5	J	D
14GT8	EM	T	45 020 30	14.0	5	S	A
14GT8	EM	T	45 060 10	14.0	5	S	A
14JG8	GM	T	45 890 70	14.0	5	J	C
14JG8	EM	T	45 060 10	14.0	5	S	A

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VI				
20 AC	0	-------	RL	40	P2	50	Diode #1.
20 AC	0	-------	RL	40	P2	50	Diode #2.
20 AC	0	-------	RL	20	P2	65	Heptode sect.
20 AC	0	-------	RL	18	P2	65	Triode sect.
250	8.0	-------	RL	68	P4	65	
20 AC	0	-------	RL	28	P2	65	Triode #1.
20 AC	0	-------	RL	63	P2	65	Triode #2.
20 AC	0	-------	RL	62	P2	65	
250	22.5	150	RL	75	P4	65	
250	22.6	150	RL	67	P4	65	If tube oscillates, turn grid selector to "B." Connect a 1,000 ω, 1/2 W carbon resistor between pin 5 and top cap lead B.
20 AC	0	-------	RL	80	P2, P3	65	Tetrode sect.
20 AC	0	-------	RL	95	P2	50	Diode #1.
20 AC	0	-------	RL	95	P2	50	Diode #2.
20 AC	0	-------	RL	91	P2	65	
200	CCW	125	RL	55	P4	65	
100	6.5	100	RL	66	P4	65	
250	2.0	-------	RL	78	P4	65	Triode sect.
20 AC	0	-------	RL	51	P2	50	Diode #1.
20 AC	0	-------	RL	51	P2	50	Diode #2.
20 AC	0	-------	RL	51	P2	50	Diode #3.
20 AC	0	-------	RL	43	P2	65	Triode #1.
20 AC	0	-------	RL	43	P2	65	Triode #2.
180	8.5	180	RL	54	P4	65	
200	CCW	125	RL	55	P4	65	
225	12.0	-------	RL	88	P4	65	Triode #1. Adj fil to 13.0.
150	26.0	-------	RL	76	P4	65	Triode #2. Adj fil to 13.0.
250	3.0	-------	RL	56	P4	65	Triode #1. Adj fil to 13.0.
150	17.5	-------	RL	52	P4	65	Triode #2. Adj fil to 13.0.
250	3.0	-------	RL	55	P4	65	Triode #1. Adj fil to 13.0.
150	20	-------	RL	30	P4	65	Triode #2. Adj fil to 13.0.
250	3.0	-------	RL	55	P4	65	Triode #1. Adj fil to 13.0.
150	20.0	-------	RL	30	P4	65	Triode #2. Adj fil to 13.0.
250	3.0	-------	RL	97	P4	63	Triode sect.
20 AC	0	-------	RL	100	P2	40	Diode #1.
20 AC	0	-------	RL	100	P2	40	Diode #2.
250	2.0	-------	RL	83	P4	65	Triode sect.
20 AC	0	-------	RL	50	P2	50	Diode #1.

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Tube type	Test	Functio	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIG
14JG8	EM	T	15 020 30	14.0	5	S	A
14V7	GM	T	18 623 74	12.6	C	H	C
14X7	GM	T	18 320 40	12.6	5	G	C
14X7	EM	T	18 050 40	12.6	5	S	B
14X7	EM	T	18 060 70	12.6	5	S	B
15A6	GM	T	15 271 36	14.0	5	K	B
15EA7	GM	T	78 450 60	14.0	5	J	D
15EA7	GM	T	78 120 30	14.0	50	L	B
15EW6	GM	T	13 156 27	14.0	A	G	B
16A5	GM	T	15 279 30	20	50	K	B
16A5	GM	T	15 279 30	14.0	50	K	B
16A8	GM	T	15 367 20	14.0	50	G	B
16A8	GM	T	15 190 80	14.0	5	N	C
17AV5	GM	T	27 158 30	20	50	J	B
17BQ6	GM	T	12 5A4 80	20	50	J	C
17C5	GM	T	14 276 10	20	10	N	B
17CA5	GM	T	14 276 10	20	10	K	B
17DQ6	GM	T	27 5A4 80	20	50	J	B
17EW8	GM	T	15 760 80	20.0	5	K	B
17EW8	GM	T	15 210 30	20.0	5	K	B
17GW6	GM	T	27 5A4 80	20.0	50	J	B
17L6	GM	T	27 534 80	20.0	C	J	B
17R5	GM	T	14 276 10	20.0	10	N	B
18A5	GM	T	27 158 30	20.0	50	J	C
18DZ8	GM	T	15 367 20	20.0	D	K	B
18DZ8	GM	T	15 190 80	20.0	5	K	D
18FW6	GM	T	13 156 72	20.0	B	N	C
18FX6	GM	T	13 156 27	20.0	5	N	D
18FX6	GM	T	13 160 27	20.0	5	N	B

Meter setting				Shun	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig V1				
20 AC	0	-----	RL	50	P2	50	Diode #2.
200	CCW	150	RL	35	P4	65	
250	1.0	-----	RL	97	P4	65	Triode sect.
20 AC	0		RL	21	P2	50	Diode #1.
20 AC	0	-----	RL	21	P2	50	Diode #2.
180	2.9	180	RL	40	P4	65	Adj fil to 15.0.
250	3.0	-----	RL	50	P4	65	Triode #1. Adj fil to 14.8.
175	25.0		RL	77	P4	65	Triode #2. Adj fil to 14.8.
150	CCW	125	RL	21	P4	65	Adj fil to 15.0.
170	10.4	170	RL	46	P4	65	Adj fil to 16.5.
170	10.5	165	RL	61	P4	65	Adj fil to 16.5. Disregard shorts test after GM test. Allow 10 second intervals for zeroing quality meter and 10 second intervals between attempts to zero quality meter. Allow 5 seconds to obtain GM reading.
200	16.0	200	RL	78	P4	65	Pentode sect. Adj fil to 16.0.
100	0	-----	RL	86	P4	65	Triode sect. Adj fil to 16.0.
250	22.5	150	RL	95	P4	65	Adj fil to 16.8.
250	22.5	150	RL	33	P4	65	Adj fil to 16.8.
100	6.0	100	RL	61	P4	65	Adj fil to 16.8.
125	4.5	125	RL	45	P4	65	Adj fil to 16.8.
250	22.5	150	RL	87	P4	65	Adj fil to 16.8.
200	2.1		RL	88	P4	63	Triode #1. Adj fil to 17.5.
200	2.1	-----	RL	88	P4	63	Triode #2. Adj fil to 17.5.
250	22.5	150	RL	67	P4	65	Adj fil to 16.8. If tube oscillates, turn grid selector to " B." Connect a 1,000 ω $\frac{1}{2}$ W. carbon resistor between Pin 5 and top cap lead B.
200	CCW	125	RL	55	P4	65	Adj fil to 16.8.
100	6.5	100	RL	66	P4	65	Adj fil to 16.8.
200	17.0	125	RL	40	P4	65	Adj fil to 18.5.
145	CCW	120	RL	60	P4	65	Pentode sect. Adj fil to 18.0
120	1.9	-----	RL	70	P4	65	Triode sect. Adj fil to 18.0.
110	CCW	110	RL	47	P4	65	Adj fil to 18.0.
110	3.7	110	RL	78	P4	65	Ampl sect. Adj fil to 18.0.
100	0	-----	RL	73	P4	65	OSC sect. Adj fil to 18.0.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIC
18FY6	GM	T	43 170 20	20.0	5	N	D
18FY6	EM	T	43 060 20	20.0	5	S	B
18FY6	EM	T	43 050 20	20.0	5	S	B
18HB8	GM	T	45 976 80	20.0	10	K	C
18HB8	GM	T	45 130 20	20.0	5	K	C
19AQ5	GM	T	34 156 20	20	10	K	C
19BG6	GM	T	27 5A8 30	20	50	G	C
19C8	GM	T	45 890 70	20	5	N	D
19C8	EM	T	45 060 70	20	5	S	A
19C8	EM	T	45 020 30	20	5	S	A
19C8	EM	T	45 010 70	20	5	S	A
19CL8A	GM	T	45 967 80	20.0	5	K	B
19CL8A	GM	T	45 120 30	20.0	A	K	B
19EA8	GM	T	45 263 70	20.0	5	K	B
19EA8	GM	T	45 910 80	20.0	A	K	B
19EZ8	GM	T	45 980 40	20.0	5	K	C
19EZ8	GM	T	45 760 40	20.0	5	K	C
19EZ8	GM	T	45 230 10	20.0	5	K	C
19HV8	GM	T	45 967 80	20.0	5	K	B
19HV8	GM	T	45 120 30	20.0	5	N	D
19J6	GM	T	34 610 75	20	B	N	B
19J6	GM	T	34 520 76	20	B	N	B
20	GM	T	14 320 00	3.0	50	M	E
20EQ7	GM	T	45 276 31	20.0	5	N	C
20EQ7	EM	T	45 080 30	20.0	5	S	B
20EZ7	GM	T	12 870 90	20.0	5	N	B
20EZ7	GM	T	12 560 40	20.0	5	N	D
21A6	GM	T	45 2A7 31	20	50	K	B
21EX6	GM	T	72 5A8 30	20.0	50	G	B
25C5	GM	T	34 276 10	26	10	N	B
25CA5	GM	T	34 276 10	26	10	K	B
25CD6	GM	T	27 5A8 30	26	50	K	B
25CU6	GM	T	27 5A4 80	26	50	J	B
25DN6	GM	T	27 5A8 30	26	50	K	B
25DQ6	GM	T	27 5A4 80	26	50	J	B
25DT5	GM	T	45 391 70	25.0	50	G	C
25EC6	GM	T	27 5A8 30	26.0	50	K	B
25EH5	GM	T	34 276 10	25	10	K	B
25F5	GM	T	34 276 10	26	10	N	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VF				
100	1.0	-----	RL	72	P4	65	Triode sect. Adj fil to 18.0.
20 AC	0	-----	RL	48	P2	50	Diode sect. Adj fil to 18.0.
20 AC	0	-----	RL	48	P2	50	Diode sect. Adj fil to 18.0.
115	6.3	115	RL	25	P4	65	Pentode sect. Adj fil to 18.0.
115	1.0	115	RL	50	P4	65	Triode sect. Adj fil to 18.0.
180	8.5	180	RL	54	P4	65	Adj fil to 18.9.
250	22.0	250	RL	51	P4	65	Adj fil to 18.9.
100	1.0	-----	RL	80	P4	65	Triode sect. Adj fil to 18.9.
20 AC	0		RL	100	P2	65	Diode #1. Adj fil to 18.9.
20 AC	0	-----	RL	100	P2	65	Diode #2. Adj fil to 18.9.
20 AC	0	-----	RL	100	P2	65	Diode #3. Adj fil to 18.9.
125	1.0	125	RL	77	P4	65	Tetrode sect. Adj fil to 18.9.
125	.7	-----	RL	54	P4	65	Triode sect. Adj fil to 18.9.
150	1.0	125	RL	80	P4	65	Pentode sect. Adj fil to 18.9.
150	0	-----	RL	50	P4	65	Triode sect. Adj fil to 18.9.
125	.3	-----	RL	47	P4	65	Triode #1. Adj fil to 18.9.
125	.3	-----	RL	47	P4	65	Triode #2. Adj fil to 18.9.
125	1.0	-----	RL	47	P4	65	Triode #3. Adj fil to 18.9.
125	1.0	125	RL	75	P4	65	Pentode sect. Adj fil to 18.9
100	1.0	-----	RL	68	P4	65	Triode sect. Adj fil to 18.9.
100	CCW	-----	RL	91	P4	65	Triode #1. Adj fil to 18.9.
100	CCW	-----	RL	91	P4	65	Triode #2. Adj fil to 18.9.
135	22.5		RL	34	P4	65	Adj fil to 3.3.
100	.6	100	RL	52	P4	65	Pentode sect.
20 AC	0	-----	RL	58	P2	25	Triode sect.
100	1.0	-----	RL	77	P4	65	Triode #1.
100	1.0		RL	77	P4	65	Triode #2.
180	23.0	180	RL	70	P4	65	Adj fil to 21.5.
175	30.0	175	RL	43	P4	63	Adj fil to 21.5. Tubes showing shorts: Retest using 72 5A1 30.
100	6.0	100	RL	61	P4	65	Adj fil to 25.0.
125	4.5	125	RL	45	P4	65	Adj fil to 25.0.
175	30.0	175	RL	60	P4	65	Adj fil to 25.0.
250	22.5	150	RL	95	P4	65	Adj fil to 25.0.
125	18.0	125	RL	45	P4	65	Adj fil to 25.0.
250	22.5	150	RL	87	P4	65	Adj fil to 25.0.
250	16.5	250	RL	47	P4	65	
135	22.5	135	RL	62	P4	65	Adj fil to 25.0.
115	4.8	110	RL	49	P4	65	
110	7.5	110	RL	90	P4	65	Adj fil to 25.0.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIC
25W6	GM	T	27 534 80	26	C	J	B
27S	GM	T	15 320 40	2.5	50	G	D
32ET5	GM	T	43 276 10	35.0	10	K	B
34GD5	GM	T	34 276 10	35.0	10	N	C
35	GM	T	15 B23 40	2.5	5	M	D
35CD6	GM	T	27 5A8 30	35	50	K	B
35DZ8	GM	T	45 367 20	35	D	K	B
35DZ8	GM	T	45 190 80	35	5	K	D
35EH5	GM	T	43 276 10	35.0	5	K	B
35GL6	GM	T	34 275 10	35.0	50	K	B
35HB8	GM	T	45 976 80	35.0	10	K	C
35HB8	GM	T	45 130 20	35.0	5	K	C
35S	GM	T	15 A23 40	2.5	5	M	D
40FR5	GM	T	34 276 10	35.0	10	N	B
50BK5	GM	T	45 318 60	50	10	G	B
50CD6	GM	T	27 5A8 30	50	50	K	B
50EH5	GM	T	34 276 10	50	10	K	B
50FA5	GM	T	34 276 10	50.0	10	N	C
50FE5	GM	T	72 534 80	50.0	50	K	B
50FK5	GM	T	34 276 10	50.0	B	N	B
60FX5	GM	T	43 276 10	70.0	5	K	B
50FY8	GM	T	45 367 20	50.0	50	K	B
50FY8	GM	T	45 190 80	50.0	5	M	D
HD51	VR	VR	00 001 70	OFF	5	G	F
HD51	VR	VR	00 001 70	OFF	5	H	F
51/51S	GM	T	15 B23 40	2.5	5	M	D
KT66	GM	T	27 534 81	6.3	50	G	B
KT88	GM	T	27 534 81	6.3	50	G	B
V99	GM	T	24 130 00	3.0	10	N	E
X99	GM	T	14 320 00	3.0	10	N	E
112A	GM	T	14 320 00	5.0	50	G	C
HY114	GM	T	27 BA0 00	1.5	5	G	D
117M7	GM	T	27 435 80	117	10	N	C
117M7	EM	T	27 060 10	117	5	S	A
117Z6GT	EM	T	72 030 40	117	5	R	A
117Z6GT	EM	T	72 050 80	117	5	R	A
150B2	VR	VR	00 001 20	OFF	5	G	F
150B2	VR	VR	00 001 20	OFF	5	K	F
X-155	GM	T	45 760 89	6.3	B	M	B
X-155	GM	T	45 210 39	6.3	B	M	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VI				
200	CCW	125	RL	55	P4	65	Adj fil to 25.0.
250	21.0	------	RL	79	P4	65	
115	7.0	110	RL	95	P4	65	Adj fil to 32.0.
110	6.6	110	RL	27	P4	65	Adj fil to 34.0.
180	3.0	90	RL	92	P4	65	
175	30.0	175	RL	60	P4	65	
145	CCW	120	RL	60	P4	65	Pentode sect.
120	1.9	------	RL	70	P4	65	Triode sect.
110	2.0	115	RL	27	P4	65	
110	7.5	110	RL	62	P4	63	
115	6.8	115	RL	25	P4	65	Pentode sect.
115	1.0	------	RL	50	P4	65	Triode sect.
180	3.0	90	RL	92	P4	65	
110	7.5	110	RL	85	P4	65	Adj fil to 40.0.
250	5.0	250	RL	52	P4	65	
175	30.0	175	RL	60	P4	65	
115	4.8	110	RL	49	P4	65	
105	5.8	105	RL	26	P4	65	
130	11.0	130	RL	40	P4	65	
110	0	115	RL	32	P4	65	
115	3.2	115	RL	22	P4	65	Adj fil to 60.0.
125	10	125	RL	62	P4	63	Pentode sect.
125	1.5		RL	33	P4	63	Triode sect.
30 MA	0	------	FS	25	P5	126	Max. diff −4.5.
5 MA	0	------	FS	25	P5	105	Min. diff −4.5.
180	3.0	90	RL	93	P4	65	
250	15.0	250	RL	83	P4	65	
250	25.0	250	RL	61	P4	63	
90	4.5	------	RL	54	P4	65	Adj fil to 3.3.
90	4.5		RL	54	P4	65	Adj fil to 3.3.
180	13.5		RL	93	P4	65	
180	4.0		RL	75	P4	65	Right cap=P. Left cap= G.
105	5.2	105	RL	39	P4	65	Pentode sect.
20 AC	0		RL	83	P2	50	Rect. sect.
35 AC	0		RL	24	P2	80	Diode #2.
35 AC	0		RL	24	P2	80	Diode #1.
15 MA	0		FS	25	P5	116	Max. diff −4.
5 MA	0		FS	25	P5	107	Min. diff −4.
125	CCW		RL	62	P4	65	Triode #1.
125	CCW	------	RL	62	P4	65	Triode #2.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filament	Bias	Pl SCR	Gm SIG
GL502	TH	VR	27 503 86	6.3	5	J	F
CK502AX	GM	T	35 412 00	1.1	5	Q	E
CK503AX	GM	T	35 412 00	1.1	5	Q	E
CK506AX	GM	T	35 412 00	1.1	10	Q	E
CK518AX	GM	T	35 412 00	1.1	5	Q	E
CK535AX	EM	T	53 412 00	1.1	5	S	B
CK541DX	GM	T	35 412 00	1.1	5	Q	E
CK546DX	EM	T	53 412 00	1.5	5	Q	C
CK547DX	GM	T	35 412 00	1.1	5	Q	E
CK548DX	GM	T	35 412 00	1.1	5	Q	E
CK573AX	GM	T	24 310 00	1.1	5	N	D
879	EM	T	14 0A0 00	2.5	5	G	A
829B	GM	T	71 6B3 40	12.6	50	G	B
829B	GM	T	71 2A3 40	12.6	50	G	B
19AQ5	GM	T	34 156 20	20	10	K	C
1007	EM	T	78 030 00	1.1	5	G	A
1007	EM	T	78 050 00	1.1	5	G	A
E1148	GM	T	27 BA0 80	6.3	10	G	C
1201	GM	T	28 130 40	6.3	5	G	C
1203	EM	T	18 040 70	6.3	5	S	B
1204	GM	T	27 531 40	6.3	5	M	D
1206	GM	T	18 573 62	6.3	5	M	C
1206	GM	T	18 423 67	6.3	5	M	C
1229	GM	T	14 B23 00	2.0	10	M	E
1230	GM	T	14 320 00	2.0	50	G	D
1232	GM	T	18 623 74	6.3	5	M	C
1273	GM	T	18 623 74	6.3	5	N	C
1280	GM	T	18 623 74	12.6	5	N	C
1282	GM	T	18 623 48	6.3	C	H	C
1291	GM	T	84 670 00	1.5	5	M	D
1291	GM	T	14 320 00	1.5	5	M	D
1299	GM	T	18 623 00	2.5	10	N	C
1602	GM	T	14 320 00	7.5	50	G	D
1610	GM	T	15 324 00	2.5	50	G	C
1611	GM	T	27 534 81	6.3	50	G	C
1642	GM	T	17 450 60	6.3	50	G	D
1642	GM	T	17 B30 20	6.3	50	G	D
1650	GM	T	16 430 70	6.3	10	G	C
1655	GM	T	78 450 62	6.3	5	G	D
1655	GM	T	78 320 62	6.3	5	G	D

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig V]				
----------	*5	150	FS	50	P5	Bias	Volts, 4 min, 2.8 max.
45	1.88	40	RL	56	P4	65	Adj fil to 1.25.
45	2.6	45	RL	56	P4	65	Adj fil to 1.25.
45	5.1	45	RL	46	P4	65	Adj fil to 1.25.
45	2.6	40	RL	51	P4	65	Adj fil to 1.25.
20 AC	0	-------	RL	28	P2, P3	65	Adjfil to 1.25.
45	2.0	40	RL	90	P4	65	Ad ifil to 1.25.
50	1.7	50	RL	95	P5	63	Adj fil to 1.25.
45	2.0	40	RL	91	P4	65	
40	3.0	35	RL	80	P4	65	
90	4.6	-------	RL	86	P4	65	Adj fil to 1.25.
130	0		RL	24	P2	50	
225	12	200	RL	43	P4	64	Pentode #1 rt pin.
225	12	200	RL	43	P4	64	Pentode #2 left pin.
180	8.5	180	RL	54	P4	65	Adj fil to 18.9.
130	0	-------	------	10	P2	90	Diode #1. Adj fil to 1.0.
130	0	-------		10	P2	90	Diode #2. Adj fil to 1.0.
250	6.0	-------	RL	80	P4	65	Near cap=G. Far cap=P.
180	3.0	-------	RL	61	P4	65	
20 AC	0	-------	RL	29	P2	50	
225	2.0	100	RL	60	P4	65	
225	2.5	100	RL	90	P4	65	Tetrode #1.
225	2.5	100	RL	90	P4	65	Tetrode #2.
135	4.0	67.5	RL	30	P4	65	
180	14.5	-------	RL	87	P4	65	
225	2.0	100	RL	43	P4	65	
100	1.0	100	RL	85	P4	65	
100	1.0	100	RL	85	P4	65	
200	CCW	150	RL	35	P4	65	
135	1.5	-------	RL	56	P4	65	Triode #1. Adj fil to 1.4.
135	1.5	-------	RL	56	P4	65	Triode # 2. Adj fil to 1.4.
90	5.9	90	RL	46	P4	65	Adj fil to .8.
250	23.5	-------	RL	62	P4	65	
250	16.3	250	RL	79	P4	65	
250	16.5	250	RL	80	P4	65	
250	16.5		RL	57	P4	65	Triode #1.
250	16.5		RL	57	P4	65	Triode #2.
250	7.0		RL	62	P4	65	
250	2.0		RL	72	P4	65	Triode #1.
250	2.0		RL	72	P4	65	Triode #2.

* OK under 100 on percent quality meter. (Tube voltage drop measured.)

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Tube type	Test	Function	Selectors (L. to R.)	Range			
				'ilament	Bias	P1 SCR	Gm SIG
1657	TH	VR	27 503 86	6.3	5	J	F
1658	GM	T	14 320 00	2.0	50	G	E
1659	GM	T	16 B20 50	2.5	5	G	D
1659	EM	T	16 040 50	2.5	5	S	B
1659	EM	T	16 030 50	2.5	5	S	B
1662	GM	T	17 423 00	2.5	50	J	C
1852	GM	T	27 486 53	6.3	C	J	B
1853	GM	T	27 486 53	6.3	D	H	C
2050W	TH	VR	72 503 86	6.3	5	L	F
5516	GM	T	27 5A3 00	6.3	50	G	C
5556	GM	T	14 320 00	4.2	50	G	D
5608A	GM	T	17 560 40	2.5	10	G	C
5608A	GM	T	17 320 40	2.5	10	G	C
5610	GM	T	34 610 20	6.3	5	N	C
5618	GM	T	17 623 04	6.3	50	M	C
5633	GM	T	46 3A5 12	6.3	C	N	C
5634	GM	T	46 3A5 12	6.3	C	N	C
5635	GM	T	36 170 84	6.3	B	N	C
5635	GM	T	36 250 84	6.3	B	N	C
5637	GM	T	34 210 50	6.3	E	N	C
5640	GM	T	36 157 20	6.3	10	N	C
5644*	VR	VR	00 001 40	OFF	5	G	F
5644*	VR	VR	00 001 40	OFF	5	G	F
5646	GM	T	35 410 20	6.3	E	N	C
5659	GM	T	27 534 80	12.6	50	G	C
5660	GM	T	27 B36 80	12.6	5	M	D
5660	EM	T	27 050 80	12.6	5	S	B
5660	EM	T	27 040 80	12.6	5	S	B
5661	GM	T	27 486 53	12.6	5	M	C
5662	TH	VR	34 107 50	6.3	10	L	F
5675	GM	T	27 350 60	6.3	A	M	B
5679	EM	T	18 060 75	6.3	5	S	B
5679	EM	T	18 030 25	6.3	5	S	B
5686	GM	T	45 276 10	6.3	10	G	C
5694	GM	T	27 430 10	6.3	10	G	C
5694	GM	T	27 560 80	6.3	10	G	C
5731	GM	T	16 430 70	6.3	10	G	C
5732	GM	T	27 B34 85	6.3	5	M	D
5742	GM	T	14 320 00	4.2	10	G	E

Metersetting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig Vl				
	*5	150	FS	50	P5	Bias	Volts, 0.4 min., 2.8 max.
180	14.5	-----	RL	87	P4	65	
250	2.0	-----	RL	80	P4	65	Triode sect.
20 AC	0	-----	RL	94	P2	65	Diode #1.
20 AC	0	-----	RL	94	P2	65	Diode #2.
150	9.4	90	RL	92	P4	65	
250	CCW	150	RL	47	P4	65	
250	CCW	200	RL	42	P4	65	
	*5	135	FS	50	P5	Bias	Volts, 1.5 min. 3.0.
250	19.0	250	RL	70	P4	65	Adj fil to 6.0.
250	20.0	-----	RL	83	P4	65	Adj fil to 4.5.
250	5.0	-----	RL	57	P4	65	Triode #1.
250	5.0	-----	RL	57	P4	65	Triode #2.
90	1.5	-----	RL	53	P4	65	
175	10.0	75	RL	87	P4	65	
100	CCW	100	RL	63	P4	65	
100	CCW	100	RL	62	P4	65	
100	CCW	-----	RL	52	P4	65	Triode #1.
100	CCW	-----	RL	52	P4	65	Triode #2.
60	CCW	-----	RL	58	P4	65	
100	9.0	100	RL	40	P4	65	
25 MA	0		FS	50	P5	105	Max. Max. diff −5.0.
5 MA	0	-----	FS	50	P5	85	Min. Max. diff −5.0.
75	CCW	-----	RL	83	P4	65	
250	12.5	250	RL	70	P4	65	
225	3.0	125	RL	77	P4	65	Pentode sect.
20 AC	0	-----	RL	60	P2	50	Diode #1.
20 AC	0	-----	RL	60	P2	50	Diode #2.
225	3.0	100	RL	91	P4	65	
-----	10	125	FS	25	P5	Bias	Volts, 0.7 min., 5.7 max.
125	CCW		RL	80	P4	65	Use Hickok adapter code No. 1050–121 max.
20 AC	0	-----	RL	25	P2	50	Diode #1.
20 AC	0	-----	RL	25	P2	50	Diode #2.
225	9.0	225	RL	55	P4	70	
250	3.0	-----	RL	74	P4	65	Triode #1.
250	3.0		RL	74	P4	65	Triode #2.
250	7.0		RL	82	P4	65	
225	3.0	125	RL	67	P4	65	
250	8.2	-----	RL	28	P4	65	Adj fil to 4.5.

* OK under 100 on percent quality meter. (Tube voltage drop measured.)

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filament	Bias	Pl SCR	Gm SG
5812	GM	T	14 155 02	6.3	30	G	C
5824	GM	T	27 584 80	26	50	K	C
5825	EM	T	14 0[illegible] 60	1.5	5	G	B
5829	EM	T	35 060 70	6.3	5	S	A
5829	EM	T	35 060 20	6.3	5	S	A
5844	GM	T	34 520 70	6.3	E	N	C
5844	GM	T	34 640 70	6.3	E	N	C
5847	GM	T	39 [illegible] 40	6.3	E	N	B
5876	GM	T	27 250 60	6.3	B	J	B
5881	GM	T	27 [illegible] 80	6.3	50	G	B
5897	GM	T	36 [illegible] 50	6.3	C	N	B
5900	GM	T	36 [illegible] 20	6.3	B	N	C
5920	GM	T	43 [illegible] 70	6.3	5	N	C
5920	GM	T	43 [illegible] 70	6.3	5	N	C
5965	GM	T	45 [illegible] 80	12.6	D	M	B
5965	GM	T	45 [illegible] 20	12.6	D	M	B
5967	GM	T	24 [illegible] 00	1.1	5	Q	D
5967	GM	T	75 [illegible] 00	1.1	5	Q	D
6012	TH	VR	27 [illegible] 10	6.3	10	L	F
6026	GM	T	45 [illegible] 20	6.3	D	M	B
6055	GM	T	36 [illegible] 20	26	5	Q	C
6084	GM	T	45 [illegible] 20	6.3	5	M	D
6085	GM	T	45 [illegible] 80	12.6	10	G	C
6085	GM	T	45 [illegible] 20	12.6	30	G	C
6096	GM	T	34 [illegible] 20	6.3	5	K	C
6101	GM	T	34 [illegible] 70	6.3	B	N	B
6101	GM	T	34 [illegible] 70	6.3	B	N	B
6113	GM	T	78 [illegible] 60	6.3	5	G	D
6113	GM	T	78 [illegible] 20	6.3	5	G	D
6131	GM	T	27 [illegible] 10	6.3	D	J	B
6137	GM	T	27 486 50	6.3	C	J	B
6140	VR	VR	00 [illegible] 20	OFF	5	H	F
6140	VR	VR	00 [illegible] 20	OFF	5	H	F
6148	GM	T	34 712 60	6.3	D	K	C
6152	GM	T	45 [illegible] 20	6.3	E	L	C
6159	GM	T	27 5[illegible] 10	26	50	K	B
6169	GM	T	36 [illegible] 40	6.3	5	N	B
6197	GM	T	45 [illegible] 10	6.3	5	J	B
6201	GM	T	45 [illegible] 20	12.6	E	N	C
6201	GM	T	45 210 30	12.6	E	N	C

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VF				
100	CCW		RL	90	P4	65	
100	1.6	------	RL	95	P4	65	
100	CCW	100	RL	40	P4	65	
100	1.1	100	RL	43	P4	63	
200	3.3	200	RL	43	P4	63	
180			RL	65	P4	70	
250	15.0	250	RL	34	P4	65	"A" lead to left cap tetrode #1.
250	15.0	250	RL	34	P4	65	"A" lead to right cap tetrode #2.
200	CCW	------	RL	68	P4	65	Adj fil to 6.0. Use Hickok adapter code No. 1050-121.
200	CCW	------	RL	73	P4	65	Adj fil to 6.0. Use Hickok adapter code No. 1050-121.
250	CCW	150	RL	44	P4	65	
250	2.0	140	RL	90	P4	65	
--------	-----	------		-----		------	Special adapter required which is not available and special high-frequency test should be performed.
70	3.0	------	RL	50	P4	60	Adj fil to 1.25.
150	30.0	145	RL	45	P4	65	
1.5 MA	0		FS	50	P5	82	Min. Max diff −3.0
3.5 MA	0	------	FS	50	P5	92	Max. Max diff −3.0.
1.5 MA	0	------	FS	50	P5	63	Max. Max diff −1.0.
.2 MA	0	------	FS	50	P5	50	Min. Max diff −1.0.
150	5.0	------	RL	37	P4	65	Triode #1.
150	5.0	------	RL	37	P4	65	Triode #2.
15 MA	0	------	FS	25	P5	116	Max. Max diff −4.
5 MA	0		FS	25	P5	107	Min. Max diff −4.
180	0	180	RL	0	P4	------	Eye 1 open, eye 2 closed.
180	0	180	RL	0	P4		Eye 2 open, eye 1 closed.
200	21.5	200	RL	61	P4	65	Tetrode #1.
							Connect negative (−) end of 30 V battery to pin 1 of loctal socket.

* OK under 100 on percent quality meter. (Tube voltage drop measured.)

Tube type	Test	Function	Selectors (L. to R.)	Range			
					Bias	Pl SCR	Gm SIG
6360	GM	T	45 167 20	12.6	50	G	C
6386	GM	T	19 760 85	6.3	D	N	C
6386	GM	T	19 340 25	6.3	D	N	C
6414*	GM	T	54 760 80	12.6	5	M	B
6414*	GM	T	54 210 30	12.6	5	M	B
6417	GM	T	45 916 73	12.6	50	G	C
6463	GM	T	45 860 70	12.6	C	M	B
6463	GM	T	45 310 20	12.6	C	M	B
6485	GM	T	34 156 72	6.3	C	J	B
6519	EM	T	53 412 00	1.5	5	Q	C
6533*	GM	T	76 210 50	6.3	5	M	C
6540	GM	T	34 712 65	6.3	D	K	C
6542	VR	VR	00 003 10	OFF	5	G	F
6542	VR	VR	00 003 50	OFF	5	G	F
6550							
6626	VR	VR	00 001 70	OFF	5	G	F
6626	VR	VR	00 001 70	OFF	5	H	F
6660	GM	T	34 156 72	6.3	A	N	C
6661	GM	T	34 156 27	6.3	B	J	C
6662	GM	T	34 156 27	6.3	B	M	C
6663	EM	T	34 070 10	6.3	5	S	A
6663	EM	T	34 020 50	6.3	5	S	A
6669	GM	T	34 156 20	6.3	50	G	C
6677	GM	T	45 263 17	6.3	5	J	B
6678	GM	T	45 263 70	6.3	A	J	B
6678	GM	T	45 910 80	6.3	A	G	B
6679	GM	T	45 760 81	12.6	D	G	B
6679	GM	T	45 210 36	12.6	D	G	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig Vl				
100	CCW	------	RL	90	P4	65	
100	1.6	------	RL	95	P4	65	
100	CCW	100	RL	40	P4	65	
100	1.1	100	RL	43	P4	63	
200	3.3	200	RL	43	P4	63	
180	------	------	RL	65	P4	70	
250	15.0	250	RL	34	P4	65	"A" lead to left cap tetrode #1.
250	15.0	250	RL	34	P4	65	"A" lead to right cap tetrode #2.
200	CCW	------	RL	68	P4	65	Adj fil to 6.0. Use Hickok adapter code No. 1050-121.
200	CCW	------	RL	73	P4	65	Adj fil to 6.0. Use Hickok adapter code No. 1050-121.
250	CCW	130	RL	44	P4	65	
250	2.0	140	RL	90	P4	65	
--------	-------	------		-------	--------	------	Special adapter required which is not available and special high-frequency test should be performed.
70	3.0	------	RL	50	P4	60	Adj fil to 1.25.
150	30.0	145	RL	45	P4	65	
1.5 MA	0	------	FS	50	P5	82	Min. Max diff −3.0
3.5 MA	0	------	FS	50	P5	92	Max. Max diff −3.0.
1.5 MA	0	------	FS	50	P5	63	Max. Max diff −1.0.
.2 MA	0	------	FS	50	P5	50	Min. Max diff −1.0.
150	5.0	------	RL	37	P4	65	Triode #1.
150	5.0	------	RL	37	P4	65	Triode #2.
15 MA	0	------	FS	25	P5	116	Max. Max diff −4.
5 MA	0		FS	25	P5	107	Min. Max diff −4.
180	0	180	RL	0	P4	-----	Eye 1 open, eye 2 closed.
180	0	180	RL	0	P4		Eye 2 open, eye 1 closed.
200	21.5	200	RL	61	P4	63	Tetrode #1. Connect negative (−) end of 30 V battery to pin 1 of loctal socket.

* OK under 100 on percent quality meter. (Tube voltage drop measured.)

Tube type	Test	Functio	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Gm SIG
6360	GM	T	45 167 2(	12.6	50	G	C
6386	GM	T	19 760 8!	6.3	D	N	C
6386	GM	T	19 340 2!	6.3	D	N	C
6414*	GM	T	54 760 8(	12.6	5	M	B
6414*	GM	T	54 210 3(	12.6	5	M	B
6417	GM	T	45 916 7!	12.6	50	G	C
6463	GM	T	45 860 7(	12.6	C	M	B
6463	GM	T	45 310 2(	12.6	C	M	B
6485	GM	T	34 156 7!	6.3	C	J	B
6519	EM	T	53 412 0(	1.5	5	Q	C
6533*	GM	T	76 210 5(	6.3	5	M	C
6540	GM	T	34 712 65	6.3	D	K	C
6542	VR	VR	00 003 1(	OFF	5	G	F
6542	VR	VR	00 003 5(	OFF	5	G	F
6550		-------		-------			-------
6626	VR	VR	00 001 70	OFF	5	G	F
6626	VR	VR	00 001 70	OFF	5	H	F
6660	GM	T	34 156 72	6.3	A	N	C
6661	GM	T	34 156 27	6.3	B	J	C
6662	GM	T	34 156 27	6.3	B	M	C
6663	EM	T	34 070 1(	6.3	5	S	A
6663	EM	T	34 020 50	6.3	5	S	A
6669	GM	T	34 156 20	6.3	50	G	C
6677	GM	T	45 263 17	6.3	5	J	B
6678	GM	T	45 263 70	6.3	A	J	B
6678	GM	T	45 910 80	6.3	A	G	B
6679	GM	T	45 760 81	12.6	D	G	B
6679	GM	T	45 210 36	12.6	D	G	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig V				
200	21.5	200	RL	61	P4	63	Tetrode #2. Connect negative (−) end of 30 V battery to pin 3 of loctal socket. Connect positive (+) end of 30 V battery to pin 2 of loctal socket for each test. ***Caution:*** **Disconnect battery between selector changes.**
100	CCW		RL	46	P4	65	Triode #1.
100	CCW		RL	46	P4	65	Triode #2.
180	2.3		RL	95	P4	65	Triode #1.
180	2.3		RL	95	P4	65	Triode #2.
250	10.0	250	RL	41	P4	65	
150	CCW	------	RL	77	P4	65	Triode #1.
150	CCW		RL	77	P4	65	Triode #2.
250	CCW	150	RL	47	P4	65	
50	1.7	50	RL	95	P5	63	Adj fil to 1.25.
120	1.7		RL	94	P4	65	
135	CCW	120	RL	31	P4	65	
25 MA	0	------	FS	25	P5	125	Max. Max diff =1.25 divisions on quality meter.
25 MA	0	------	FS	25	P5	105	Min. Leads are numbered 1, 3, 5,—outside leads are cathode.
----------	------	------	------	----	--------		Test requirements beyond tester capabilities.
30 MA	0	------	FS	25	P5	126	Max. Max diff −4.5.
5 MA	0	------	FS	25	P5	105	Min. Max diff −4.5.
100	CCW	100	RL	47	P4	65	
250	CCW	150	RL	46	P4	65	
225	CCW	100	RL	60	P4	65	
20 AC	0	0	RL	66	P2	50	Diode #1.
20 AC	0	0	RL	66	P2	50	Diode #2.
250	12.5	250	RL	48	P4	65	
250	3.0	150	RL	32	P4	65	
250	CCW	135	RL	95	P4	65	Pentode sect.
150	CCW		RL	53	P4	65	Triode sect.
250	CCW		RL	87	P4	65	Triode #1.
250	CCW		RL	87	P4	65	Triode #2.

*OK unc 100 on percent quality meter. tube voltage drop measured.)

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filament	Bias	Pl SCR	Gm SIC
6680	GM	Γ	45 760 81	12.6	10	J	C
6680	GM	Γ	45 210 36	12.6	10	J	C
6681	GM	Γ	45 760 81	12.6	5	N	D
6681	GM	Γ	45 210 36	12.6	5	N	D
6686	GM	Γ	45 278 39	6.3	5	G	B
6688	GM	Γ	45 279 18	6.3	5	G	A
6689	GM	Γ	45 261 39	6.3	5	J	B
6690	GM	Γ	36 750 80	6.3	B	N	C
6690	GM	Γ	36 210 40	6.3	B	N	C
6761	GM	Γ	45 217 30	6.3	50	G	B
6788	GM	Γ	36 157 20	6.3	D	N	D
6814	GM	Γ	36 180 50	6.3	C	N	C
6832*	GM	Γ	36 780 50	6.3	5	N	D
6832*	GM	Γ	36 210 40	6.3	5	N	D
6850	GM	Γ	53 6A1 40	12.6	10	K	C
6850	GM	Γ	53 2A1 40	12.6	10	K	C
6872	GM	Γ	34 712 65	6.3	5	K	C
6877*	GM	Γ	53 140 80	6.3	50	P	B
6887	EM	Γ	43 070 10	6.3	5	S	A
6887	EM	Γ	43 020 50	6.3	5	S	A
6883	GM	Γ	27 5A3 18	12.6	50	K	B
6888	GM	Γ	27 486 53	6.3	10	J	C
6907	GM	Γ	17 2A3 40	12.6	50	G	D
6907	GM	Γ	17 6A3 40	12.6	50	G	D

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VR				
225	8.5		RL	86	P4	65	Triode #1.
225	8.5		RL	80	P4	65	Triode #2.
100	1.0		RL	82	P4	65	Triode #1.
100	1.0		RL	82	P4	65	Triode #2.
210	3.0	210	RL	30	P4	65	
180	1.0	150	RL	90	P4	65	
210	2.1	120	RL	43	P4	63	
100	CCW		RL	40	P4	65	Triode #1.
100	CCW		RL	40	P4	65	Triode #2.
140	7.0	120	RL	25	P4	65	
100	CCW	100	RL	82	P4	65	
100	CCW		RL	35	P4	65	
100	3.9		RL	81	P4	63	Triode #1.
100	3.9		RL	80	P4	63	Triode #2.
200	6.6	200	RL	43	P4	63	Cap above octal pins 2 and 3= A. Connect negative (−) end of a 30 V battery to pin 2 of octal socket.
200	6.6	200	RL	43	P4	63	Cap above octal pins 6 and 7= A. Use Hickok adapter code No. 1050-107. Connect negative (−) end of a 30 V battery to pin 6 of loctal socket. Connect positive (+) end of the 30 V battery to pin 4 of loctal socket for each test. ***Caution:*** **Disconnect battery (Eveready 413) between selector changes.**
120	2.2	120	RL	48	P4	65	
100	10.0		RL	78	P4	65	
20 AC	0		RL		P2	50	Diode #1.
20 AC	0		RL		P2	50	Diode #2.
200	30.0	200	RL	68	P4	65	
150	4.0	90	RL	60	P4	65	
250	15.0	250	RL	34	P4	65	"A" lead to left cap tetrode #1.
250	15.0	250	RL	34	P4	65	"A" lead to right cap tetrode #2.

*OK under 100 on percent quality meter. (Tube voltage drop measured.)

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filamen	Bias	PI SCR	Gm SIG
6919	EM	T	34 070 16	6.3	5	S	A
6919	EM	T	34 020 56	6.3	5	S	A
6922	GM	T	45 210 30	6.3	5	N	B
6922	GM	T	45 760 80	6.3	5	N	B
6939*	GM	T	54 387 20	12.6	5	H	D
6939*	GM	T	54 167 20	12.6	5	H	D
6943	GM	T	36 157 24	6.3	C	K	C
6944	GM	T	36 157 24	6.3	C	K	C
6945	GM	T	36 157 20	6.3	D	N	C
6946	GM	T	36 180 50	6.3	D	N	C
6947	GM	T	36 780 50	6.3	E	M	C
6947	GM	T	36 210 40	6.3	E	M	C
6948	GM	T	36 780 50	6.3	E	N	C
6948	GM	T	36 210 40	6.3	E	N	C
6954	GM	T	34 156 27	6.3	5	K	C
6954	GM	T	34 756 21	6.3	5	K	D
6973	GM	T	45 391 70	6.3	50	G	C
7025	GM	T	54 760 80	12.6	5	J	D
7025	GM	T	54 210 30	12.6	5	J	D
7027	GM	T	27 531 80	6.3	50	G	C
7036	EM	T	34 156 27	6.3	5	S	A
7044	GM	T	45 790 60	12.6	5	M	B
7044	GM	T	45 210 30	12.6	5	M	B
7054	GM	T	45 278 13	12.6	A	J	B
7055	EM	T	34 070 16	12.6	5	S	A
7055	EM	T	34 020 56	12.6	5	S	A
7056	GM	T	34 156 27	12.6	D	H	B

Meter setting					Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig V				
20 AC	0	------	RL	95	P2	50	Diode #1.
20 AC	0	------	RL	95	P2	50	Diode #2.
100	1.2		RL	25	P4	65	Triode #1.
100	1.2		RL	25	P4	65	Triode #2.
200	3.5	150	RL	37	P4	63	Tetrode #1. Connect negative (−) end of 30 V battery to pin 1 of octal socket. Connect positive (+) end of battery to pin 2 of octal socket.
200	3.5	150	RL	37	P4	63	Tetrode #2. Connect negative (−) end of 30 V battery to pin 3 of octal socket. Connect positive (+) end of battery to pin 2 of octal socket. ***Caution:*** **Disconnect battery between selector changes.**
125	CCW	100	RL	62	P4	65	
125	CCW	100	RL	61	P4	65	
100	CCW	100	RL	48	P4	65	
100	CCW	------	RL	46	P4	65	
150	CCW	------	RL	50	P4	65	Triode #1.
150	CCW	------	RL	50	P4	65	Triode #2.
100	CCW	------	RL	58	P4	65	Triode #1.
100	CCW	------	RL	58	P4	65	Triode #2.
150	1.0	150	RL	57	P4	65	Grid #1.
150	1.0	150	RL	85	P4	65	Grid #3.
250	15.0	250	RL	68	P4	65	
225	2.0	------	RL	52	P4	67	Triode #1.
225	2.0		RL	52	P4	67	Triode #2.
250	14.0	250	RL	33	P4	75	
20 AC	0	------	RL	26	P2,P3	45	
120	2.0	------	RL	70	P4	65	Triode #1.
120	2.0	------	RL	70	P4	65	Triode #2.
250	CCW	150	RL	27	P4	65	
20 AC	0	0	RL	66	P2	50	Diode #1.
20 AC	0	0	RL	66	P2	50	Diode #2.
200	CCW	150	RL	86	P4	65	

*OK under 100 on percent quality meter. (Tube voltage drop measured.)

Tube type	Test	Functio	Selectors (L. to R.)	Range			
				Filamen	Bias	Pl SCR	Ins S
7057	GM	T	45 760 80	12.6	D	K	B
7057	GM	T	45 210 30	12.6	D	K	B
7058	GM	T	54 760 80	12.6	5	J	D
7058	GM	T	54 210 30	12.6	5	J	D
7059	GM	T	54 263 70	12.6	5	J	C
7059	GM	T	54 910 80	12.6	5	G	C
7060	GM	T	54 867 90	12.6	5	J	B
7060	GM	T	54 210 30	12.6	5	G	C
7061	GM	T	45 391 70	12.6	50	G	C
7077	---	---		---	---	---	---
7119	GM	T	54 790 60	12.6	5	M	B
7119	GM	T	54 210 30	12.6	5	M	B
7167	GM	T	34 156 20	12.6	5	L	B
7189	GM	T	45 279 30	6.3	10	G	B
7199	GM	T	54 723 60	6.3	5	J	B
7199	GM	T	54 910 80	6.3	10	J	C
7247	---	---		---	---	---	---
7258	GM	T	45 867 91	12.6	5	L	B
7258	GM	T	45 217 36	12.6	5	L	D
7308	GM	T	45 210 30	6.3	5	N	B
7308	GM	T	45 760 80	6.3	---	N	B
7316	GM	T	45 760 80	12.6	10	J	D
7316	GM	T	45 210 30	12.6	10	J	D
7355	GM	T	72 638 50	6.3	50	G	B
7360	GM	T	45 362 19	6.3	5	K	C
7370	GM	T	58 790 60	20.0	5	M	B
7370	GM	T	84 210 30	20.0	5	M	B
7408	GM	T	72 534 80	6.3	50	G	C
7486		---		---	---		---
7543	GM	T	34 156 72	6.3	B	J	C
7551	GM	T	45 263 17	12.6	50	G	B
7558	GM	T	45 263 17	6.3	50	G	B
7581	GM	T	27 534 80	6.3	50	G	C
7586	GM	T	31 420 80	6.3	5	Q	B
7587	GM	T	31 4A2 80	6.3	A	M	B

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig V				
150	CCW	-----	RL	68	P4	65	Triode #1.
150	CCW	-----	RL	68	P4	65	Triode #2.
225	2.0	-----	RL	52	P4	67	Triode #1.
225	2.0		RL	52	P4	67	Triode #2.
200	1.4	110	RL	61	P4	65	Pentode sect.
150	2.0	-----	RL	30	P4	65	Triode sect.
200	1.5	125	RL	87	P4	65	Pentode sect.
150	1.5		RL	47	P4	65	Triode sect.
250	12.5	250	RL	45	P4	65	
-----	-----	-----	-----	-----	-----	-----	Special adapter required; not available.
120	2.0		RL	23	P4	63	Triode #1.
120	2.0	-----	RL	23	P4	63	Triode #2.
125	1.0	80	RL	70	P4	65	Adj fil to 13.5.
250	7.0	250	RL	29	P4	65	
220	1.5	130	RL	71	P4	65	Pentode sect.
200	7.4	-----	RL	74	P4	65	Triode sect.
-----	-----	-----		-----	-----	-----	
160	0.9	125	RL	61	P4	63	Pentode sect.
150	3.0	-----	RL	16	P4	63	Triode sect.
100	1.2	-----	RL	25	P4	65	Triode #11.
100	1.2	-----	RL	25	P4	65	Triode #12.
250	8.5	-----	RL	45	P4	65	Triode #1.
250	8.5	-----	RL	45	P4	65	Triode #2.
250	15.0	225	RL	60	P4	63	
150	1.0	150	RL	28	P4	60	Connect pin 1 to pin 8 and pin 6 to pin 7 on loctal socket.
120	2.0	-----	RL	29	P4	65	Triode #1.
120	2.0	-----	RL	29	P4	65	Triode #1.
250	12.5	250	RL	48	P4	65	
-----	-----	-----	-----		-----	-----	Special adapter required; not available.
250	CCW	125	RL	42	P4	65	
250	18.0	250	RL	99	P4	65	Adj fil to 13.5.
250	18.0	250	RL	99	P4	65	
250	14	250	RL	23	P4	47	
40	0	-----	RL	31	P4	65	Use Hickock adapter code No. 1050–127.
125	CCW	50	RL	32	P4	65	Use Hickock adapter code No. 1050–127.

Tube type	Test	Function	Selectors (L. to R.)	Range			
				Filament	Bias	Pl SCR	Gm SIG
7591	GM	T	27 638 50	6.3	50	G	B
7687	GM	T	45 263 70	6.3	5	J	C
7687	GM	T	45 910 80	6.3	50	K	C
7693	GM	T	34 156 27	6.3	B	J	C
7694	GM	T	34 156 27	6.3	B	M	C
7695	GM	T	45 691 70	50.0	50	K	B
7701	GM	T	45 269 10	14.0	50	G	C
7716	GM	T	45 798 60	12.6	B	J	B
7716	GM	T	45 230 10	12.6	5	M	C
7719	GM	T	45 210 30	12.6	10	J	C
7724	GM	T	45 890 70	14.0	5	J	D
7724	EM	T	45 020 30	14.0	5	S	A
7724	EM	T	45 060 10	14.0	5	S	A
7728	GM	T	45 760 81	12.6	D	G	B
7728	GM	T	45 210 36	12.6	D	G	B
7729	GM	T	45 760 81	12.6	5	N	D
7729	GM	T	45 210 36	12.6	5	N	D
7730	GM	T	45 760 81	12.6	10	J	C
7730	GM	T	45 210 36	12.6	10	J	C
7731	GM	T	45 263 70	6.3	A	J	B
7731	GM	T	45 910 80	6.3	A	G	B
7732	GM	T	34 156 27	6.3	D	H	B
7733	GM	T	46 278 13	12.6	5	J	C
7737	GM	T	45 279 18	6.3	5	G	A
7754	GM	T	45 691 70	6.3	50	K	B
7759	GM	T	36 780 50	26.0	B	N	C
7759	GM	T	36 210 40	26.0	B	N	C
7760	GM	T	36 780 50	26.0	5	Q	B
7760	GM	T	36 210 40	26.0	5	Q	B
7761	GM	T	36 157 24	26.0	B	L	B
7762	GM	T	36 157 42	26.0	E	N	C
7868	GM	T	12 356 78	6.3	10	G	B
7889	GM	T	36 780 50	25.0	E	N	C
7889	GM	T	36 210 40	25.0	E	N	C
7895	GM	T	13 420 80	6.3	D	N	B
9003	GM	T	34 156 27	6.3	5	M	D
XXB	GM	T	78 360 00	1.5	5	N	D
XXB	GM	T	17 430 00	1.5	5	N	D
XXD	GM	T	18 560 70	12.6	50	G	C

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VF				
250	10	250	RL	55	P4	65	
220	.8	130	RL	30	P4	65	Pentode sect.
215	8.5	------	RL	77	P4	65	Triode sect.
250	CCW	150	RL	46	P4	65	
225	CCW	100	RL	60	P4	65	
130	11	130	RL	24	P4	65	
250	12.5	250	RL	56	P4	65	Adj fil to 13.6.
200	0	125	RL	42	P4	65	Pentode sect.
125	1.0	------	RL	69	P4	65	Triode sect.
250	10.0	------	RL	58	P4	65	
250	3.0	------	RL	97	P4	63	Triode sect.
20 AC	0	------	RL	100	P2	40	Diode #1.
20 AC	0	------	RL	100	P2	40	Diode #2.
250	CCW	------	RL	87	P4	65	Triode #1.
250	CCW	------	RL	87	P4	65	Triode #2.
100	1.0		RL	82	P4	65	Triode #1.
100	1.0	------	RL	82	P4	65	Triode #2.
225	8.5	------	RL	80	P4	65	Triode #1.
225	8.5	------	RL	80	P4	65	Triode #2.
250	CCW	135	RL	95	P4	65	Pentode sect.
150	CCW		RL	53	P4	65	Triode sect.
200	CCW	150	RL	88	P4	65	
250	2.6	140	RL	37	P4	65	
180	1.0	150	EL	90	P4	65	
130	11	130	RL	24	P4	65	
100	CCW	------	RL	39	P4	65	Triode No. 1.
100	CCW	------	RL	39	P4	65	Triode No 2.
40	0	------	RL	85	P4	65	Triode No. 1.
40	0	------	RL	85	P4	65	Triode No. 2.
150	CCW	100	RL	45	P4	65	
110	0		RL	47	P4	65	
250	7.0	250	RL	33	P4	65	Use Hickock adapter code No. 1050-144.
100	CCW		RL	76	P4	65	Triode #1.
100	CCW	------	RL	76	P4	65	Triode #2.
110	CCW	------	RL	45	P4	65	Use Hickock adapter code No. 1050-127.
175	2.4	80	RL	59	P4	64	Short in Z.
100	3.0	------	RL	98	P4	65	Triode #1. Adj fil to 1.4.
100	3.0	------	RL	98	P4	65	Triode #2. Adj fil to 1.4.
250	10.0	------	RL	85	P4	65	Triode #1.

225-370°—66——9

Tube type	Test	Functio	Selectors (L. to R.)	Range			
				Filament	Bias	P1 SCR	Gm SIG
XXD	GM	T	18 430 20	12.6	50	G	C
XXFM	GM	T	18 320 40	6.3	5	G	C
XXFM	EM	T	18 050 40	6.3	5	S	B
XXFM	EM	T	18 060 70	6.3	5	S	B
XXL	GM	T	18 620 70	6.3	10	G	C

Meter setting				Shunt	Press to test	Minimum limits	Notes
Plate	Bias	Screen	Sig VR				
250	10.0	--------	RL	85	P4	65	Triode #2.
250	1.0	--------	RL	97	P4	65	Triode sect.
20 AC	0	--------	RL	21	P2	50	Diode #1.
20 AC	0	--------	RL	21	P2	50	Diode #2.
250	8.0	--------	RL	70	P4	65	

4. Ballast Tube Test Data.

Ballast tube type	FIL—selector switch position	FIL+selector switch positions (FIL CONT-SHORT lamp should glow in each position)
1A1/5E1	1	4
1B1	1	4
1C1	1	4
1E1	1	4
1F1	1	4
1G1	1	4
1J1	1	4
1K1	1	4
1L1	2	7
1N1	2	7
1P1	2	7
1Q1	2	7
1R1G	2	7
1S1G	2	7
1T1G	2	7
1U1G	2	7
1V1	1	4
1X1	1	4
1Y1	1	4
1Z1	1	4
2	1	4
2UR224	3	7, 8
	7	8
2LR212	4	1, 2, 8
O3G	3	7
3	1	4
4	1	4
5	1	4
6–133	3	7
6	1	4

Ballast tube type	FIL—selector switch position	FIL+selector switch positions (FIL CONT-SHORT lamp should glow in each position)
6–6AA	2	7
7	1	4
8	1	4
9	1	4
10A	3	7
10AG	3	7
10AB	3	7, 8
K17B	3	7, 8
M17C	3	7, 8
BM17C	3	7, 8
M17H7, M17H	1	7, 8
	2	3
L23P	3	7, 8
K23C	1	7, 8
KX23B	1	3, 4
M30H	2	3
	1	7, 8
30A, K30A	3	7
K30D	3	2, 7, 8
33A, 33 AG	3	7
K34B	3	7, 8
36A	3	7
K36B, BK36B	3	7, 8
L36B	3	7, 8
L36C	3	7, 8
KX36C	1	3, 4
KX36A	1	4
36D	3	2, 7, 8
L36D	3	2, 7, 8
L36DJ	4	2, 7, 8
K36H	2	3
	1	7, 8

Ballast tube type	FIL—selector switch position	FIL+selector switch positions (FIL CONT-SHORT lamp should glow in each position)
M36H, M36HG	2	3
	1	7, 8
L40S1	3	2, 5, 7
L40S2	3	2, 5, 7
42A	3	7
42A1	4	8
42A2	4	1, 8
42B2	4	1, 8
K42B	3	7, 8
L42B	3	7, 8
M42B	3	7, 8
KX42B	1	3, 4
LX42B	1	3, 4
L42BX	3	7, 8
K42C	3	7, 8
L42C	3	7, 8
M42C	3	7, 8
KB42D	3	2, 7, 8
K42D	3	2, 7, 8
L42D	3	2, 7, 8
LX42D	1	2, 3, 4
L42DX	1	2, 3, 4
K42E	3	2, 5, 7, 8
L42E	3	2, 5, 7, 8
L42F	2	3
	7	8
42HA	1	7, 8
	2	3, 4
K42HJ	4	2
	1	7, 8
M42H, M32HG	2	3
	1	7, 8

Ballast tube type	FIL−selector switch position	FIL+selector switch positions (FIL CONT-SHORT lamp should glow in each position)
KX42C	1	3, 4
L42S1	3	5, 6
49A	3	7
49AJ, K49AJ	4	7
KX49A	1	4
49A1	4	8
49A2	4	1, 8
49B2	4	1, 8
K49B	3	7, 8
M49B, BM49B	3	7, 8
K47C	3	7, 8
M49C, BM49C	3	7, 8
BK49C	3	7, 8
K49E	3	2, 5, 7, 8
L49E	3	2, 5, 7, 8
K49D, BK49D	3	2, 7, 8
L49D	3	2, 7, 8
L49F	2	3
	7	8
M49H, M49HG	2	3
	1	7, 3
KZ59B	2	5, 7
KZ49C	2	5, 7
K49BJ	4	7, 8
L49PJ	4	7, 8
L49S2	3	2, 5, 7
49AJ, K49AJ	4	7
KX49B	1	3, 4
LX49B	1	3, 4
LX49C	1	3, 4
L49DJ	4	2, 7, 8

Ballast tube type	FIL—selector switch position	FIL+selector switch positions (FIL CONT-SHORT lamp should glow in each position)
L49S3	3	2, 5, 7
50A2	1	3, 4
50A2MG	2	3, 4
50B2	2	5, 7
50X3	1	4
K52H	2	3
	1	7, 8
M52H	2	3
	1	7, 8
K54B	3	7, 8
55A, K55A	3	7
55A1	4	8
KX55A	1	4
55B, K55B	3	7, 8
M55B, BM55B	3	7, 8
L55BG	3	7, 8
LX55B	1	3, 4
55A2	4	1, 8
55B2	4	1, 8
K55C	3	7, 8
L55C	3	7, 8
KX55C	1	3, 4

By Order of the Secretary of the Army:

HAROLD K. JOHNSON,
General, United States Army,
Chief of Staff.

Official:

J. C. LAMBERT,
Major General, United States Army,
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7-100 (2)	29-26 (2)
11-6 (2)	29-35 (2)
11-56 (2)	29-36 (2)
11-57 (2)	29-51 (2)
11-97 (2)	29-55 (2)
11-98 (2)	29-56 (2)
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NG: State AG (3).
USAR: None.
For explanation of abbreviations used, see AR 320-50.

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