



FOREIGN TUBE TYPES

SUPPLEMENTARY TEST DATA

for

MODELS 539B & 539C

TUBE TESTERS

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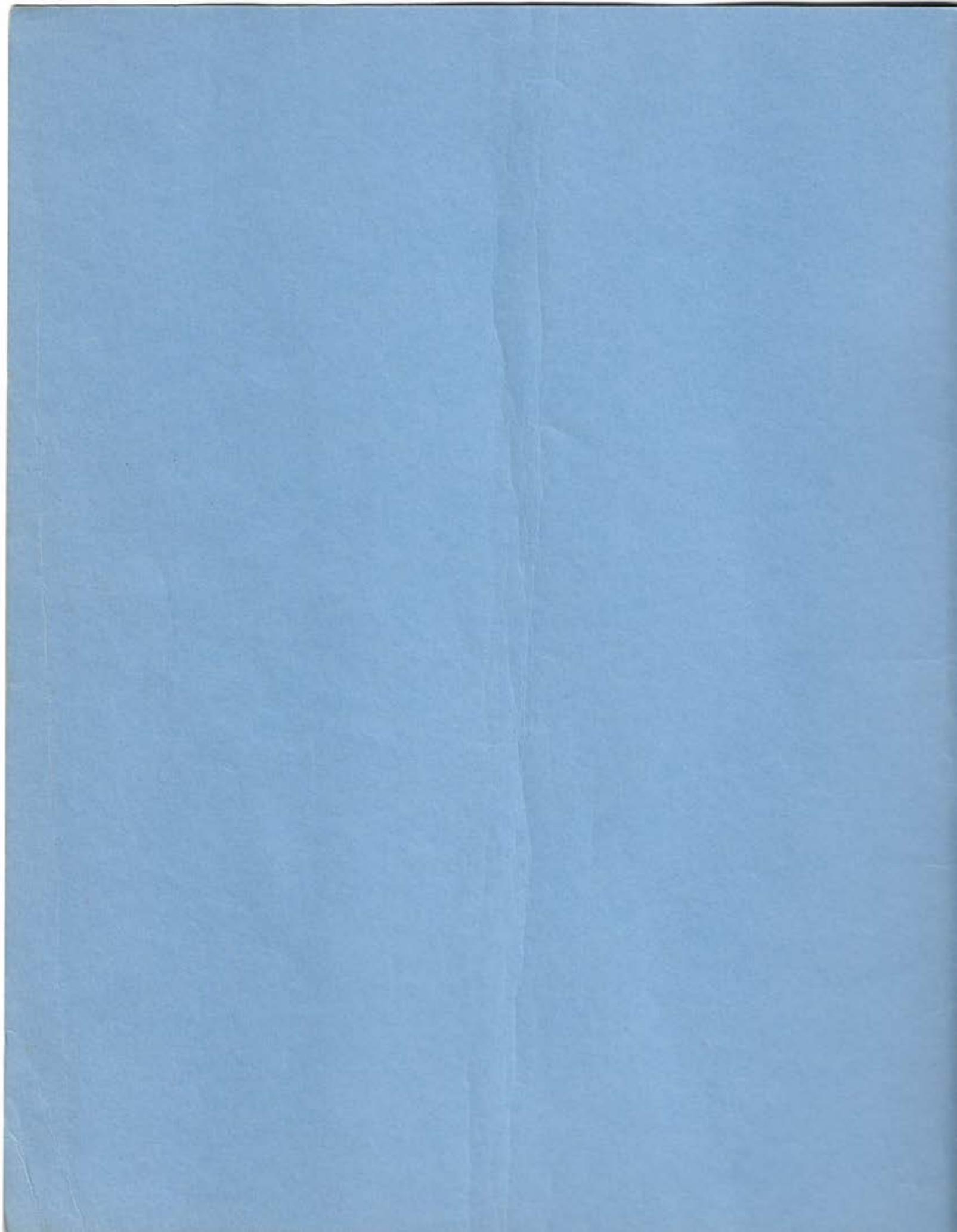
TWX — CV 662

WESTERN UNION — KJ

3200-197

Supersedes 3200-131

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TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT. COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
1A4	1.4	HR-6230-0	4.4	---	P4	E	300	PENTODE SECT. PLATE VOLTS = LOW. NOTE 6.
1AR5	1.4	BX-6540-0	1.4	---	P4	D	380	
1AR5	1.4	BX-0300-0	0.0	---	P1	D	----	DIODE SECT. OK ABOVE 300 ON 3000 SCALE. NOTES 3 & 6.
1AS5	1.4	BX-6230-0	1.4	---	P4	D	380	PENTODE SECT. PLATE VOLTS = LOW. NOTE 6.
1AS5	1.4	BX-0400-0	0.0	---	P1	D	----	DIODE SECT. OK ABOVE 300 ON 3000 SCALE. NOTES 3 & 6.
1BG2	1.4	CX-0000-0	0.0	27	P5	G	----	CONNECT FIL LEADS TO OCTAL SOCKET PINS 2 & 7. SINGLE LEAD = P. NOTES 3 & 6.
1B02	1.4	BS-0000-0	0	15	P5	G	----	CAP=P. NOTES 3 & 6.
1C1	1.4	BX-6234-0	2.0	---	P4	E	380	GRID NO. 3. NOTE 6.
1C1	1.4	BX-4306-2	2.0	---	P4	E	880	OSC. SECT. PLATE VOLTS = LOW. NOTE 6.
1D13	1.4	HR-0203-0	0.0	---	P1	D	----	DIODE. NOTE 3.
1F2	1.4	HR-6230-0	2.8	---	P4	E	650	NOTE 6.
1F3	1.4	BX-6230-0	0.0	---	P4	E	490	PLATE VOLTS = LOW. NOTE 6.
1M3	1.4	FV-1800-0	VARY	---	P5	C	----	ADJUST BIAS TO VARY BAR LENGTH. DO NOT ADJUST BELOW 4.0 VOLTS.
1N3	1.4	FV-1800-0	VARY	---	P5	C	----	ADJUST BIAS TO VARY BAR LENGTH. DO NOT ADJUST BELOW 4.0 VOLTS.
1P10	2.5	HR-3240-0	5.0	---	P4	E	950	PLATE VOLTS = LOW. NOTE 6.
1P11	3.0	HR-6230-0	6.0	---	P4	E	1260	NOTE 6.
2B-H5	2.0	DR-4208-0	0.5	---	P4	C	5000	PLATE VOLTS = LOW. (SEE BELOW) NOTE 7.
2B-H5	2.0	13-4208-0	0.5	---	P4	C	5000	PLATE VOLTS = LOW. (SEE BELOW). USE ADAPTER SA-3, 1050-127, OR ADAPTER CA-4, 1050-135 WITH MODEL 539H. MODEL 539C REQUIRES NO ADAPTER.
2FY5	2.5	ET-2501-6	1.4	---	P4	C	7000	PLATE VOLTS = LOW. (SEE BELOW) NOTE 7.
2HA5	2.0	ET-1507-6	1.2	---	P4	C	8000	
2N-H11	2.0	DR-4208-0	0.4	---	P4	C	4700	PLATE VOLTS = LOW. (SEE BELOW). USE ADAPTER SA-3, 1050-127, OR ADAPTER CA-4, 1050-135 WITH MODEL 539H. MODEL 539C REQUIRES NO ADAPTER. PLATE VOLTS = LOW. NOTE 7.
2N-H11	2.0	13-4208-0	0.4	---	P4	C	4700	
2N-H12	2.0	13-6207-0	0.8	---	P4	C	7000	HEPTODE SECTION.
3AJ8	3.0	EV-2613-7	3.5	---	P4	D	950	
3AJ8	3.0	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
3BH2	3.0	JR-0000-0	0.0	30	P5	G	----	CAP=P. NOTES 3 & 6. USE ADAPTER SA-8, 1050-16R.
3BX6	3.0	EV-2781-9	0.5	---	P4	C	4500	TRIODE SECTION.
3HY7	3.0	EV-2781-9	2.0	---	P4	D	2500	
3FY5	3.0	ET-2501-6	1.4	---	P4	C	7000	
3HA5	2.5	ET-1507-6	1.2	---	P4	C	8000	
3M-P26	3.0	ET-1562-0	10.0	---	P4	D	2500	
4A88	4.3	EV-2103-0	5.0	---	P4	D	850	PENTODE SECTION.
4A88	4.3	EV-9683-7	4.0	---	P4	D	2100	
4BL8	4.3	EV-2637-1	1.2	---	P4	C	3000	
4BL8	4.3	EV-9108-6	4.8	---	P4	C	3000	
4BN4	4.3	ET-2501-0	1.9	---	P4	C	4300	
4CM4	4.3	EV-2103-0	1.2	---	P4	B	8800	TRIODE SECTION.
4DL4	4.3	EV-9802-0	1.3	---	P4	E	7500	
4ER5	4.3	ET-2567-0	0.8	---	P4	C	4500	
4FY5	4.3	ET-2501-6	1.4	---	P4	C	7000	
4GJ7	4.3	EV-2671-0	1.0	---	P4	C	4900	
4GJ7	4.3	EV-9803-0	4.2	---	P4	C	6100	PENTODE SECTION.
4GS7	4.3	EV-9678-0	0.4	---	P4	C	5000	
4GS7	4.3	EV-1203-0	5.0	---	P4	C	3100	
4HA5	4.3	ET-1507-6	1.2	---	P4	C	8000	
4HG8	4.3	EV-2893-0	0.8	---	P4	C	5050	
4HG8	4.3	EV-6703-0	8.0	---	P4	C	4000	
4KN8	4.3	EV-7608-0	2.2	---	P4	B	7900	

SEE NEXT PAGE FOR CONTINUATION

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
4KN8	4.3	EV-2103-0	2.2	---	P4	B	7900	TRIODE NO. 2.
4MP12	5.0	ET-1562-0	2.2	---	P4	C	2600	
4M-P26	4.3	ET-1562-0	10.0	---	P4	D	2500	
4R-HH2	4.3	EV-7608-9	2.0	---	P4	C	4000	TRIODE NO. 1.
4R-HH2	4.3	EV-2103-9	2.0	---	P4	C	4000	TRIODE NO. 2.
4R-HH8	4.3	EV-7608-0	2.2	---	P4	B	7900	TRIODE NO. 1.
4R-HH8	4.3	EV-2103-0	2.2	---	P4	B	7900	TRIODE NO. 2.
5AR4	5.0	JS-0600-0	0.0	88	P3	G	----	PLATE NO. 1. NOTE 3.
5AR4	5.0	JS-0400-0	0.0	88	P3	G	----	PLATE NO. 2. NOTE 3.
5GJ7	5.0	EV-2671-0	1.0	---	P4	C	4900	PENTODE SECTION.
5GJ7	5.0	EV-9803-0	4.2	---	P4	C	6100	TRIODE SECTION.
5GS7	5.0	EV-9678-0	0.4	---	P4	C	5000	PENTODE SECTION.
5GS7	5.0	EV-1203-0	5.0	---	P4	C	3100	TRIODE SECTION.
5HG8	5.0	EV-2893-0	0.8	---	P4	C	5000	PENTODE SECTION.
5HG8	5.0	EV-6703-0	8.0	---	P4	C	4000	TRIODE SECTION.
5MHH3	5.0	ET-6107-0	1.5	---	P4	C	5500	TRIODE NO. 1.
5MHH3	5.0	ET-5207-0	1.5	---	P4	C	5500	TRIODE NO. 2.
5M-K9	5.0	ET-0503-0	0.0	86	P3	G	----	NOTE 3.
5U9	6.3	FW-3782-4	1.5	---	P4	C	4400	PENTODE SECTION. USE ADAPTER SA-11 MODEL 5398# USE SA-11 & CA-4. NOTE 7.
5U9	6.3	FW-W901-0	4.5	---	P4	C	3150	TRIODE SECTION.
5V9	5.0	FW-3741-2	1.0	---	--	E	700	HEPTODE SECTION. HOLD DOWN P1 & PRESS P4. USE ADAPTER SA-11. MODEL 5398# USE SA-11 & CA-4. NOTE 7.
5V9	5.0	FW-8W09-0	2.4	---	P4	C	3150	TRIODE SECTION.
5X9	6.3	FW-3782-4	1.5	---	P4	C	4700	PENTODE SECTION. USE ADAPTER SA-11 MODEL 5398# USE SA-11 & CA-4. NOTE 7.
5X9	6.3	FW-W901-0	1.2	---	P4	D	3000	TRIODE SECTION.
6AB9	6.3	FW-978W-0	1.5	---	P4	C	4400	TETRODE NO. 1. USE ADAPTER SA-11. MODEL 5398# USE SA-11 & CA-4. NOTE 7.
6AB9	6.3	FW-3124-0	1.5	---	P4	C	4400	TETRODE NO. 2.
6AF9	6.3	FW-8W97-0	2.2	---	P4	C	6300	PENTODE NO. 1. USE ADAPTER SA-11. MODEL 5398# USE SA-11 & CA-4. NOTE 7.
6AF9	6.3	FW-1432-0	1.0	---	P4	C	5300	PENTODE NO. 2.
6AJ8	6.3	EV-2613-7	3.5	---	P4	D	950	HEPTODE SECTION.
6AJ8	6.3	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
6AK8	6.3	EV-8907-0	1.3	---	P4	E	750	TRIODE SECTION.
6AK8	6.3	EV-0607-0	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
6AK8	6.3	EV-0203-0	0.0	---	P1	E	----	DIODE NO. 2. NOTE 3.
6AK8	6.3	EV-0107-0	0.0	---	P1	E	----	DIODE NO. 3. NOTE 3.
6AL3	6.3	EV-0009-0	0.0	89	P3	G	----	REVERSE METER. CAP = P. NOTE 3.
6AM5	6.3	ET-1572-0	5.3	---	P4	D	1650	
6AM6	6.3	ET-1572-6	1.0	---	P4	C	3800	
6A04	6.3	ET-1705-0	0.8	---	P4	C	5300	
6A08	6.3	EV-7608-9	1.6	---	P4	D	2500	TRIODE NO. 1.
6A08	6.3	EV-2103-9	1.6	---	P4	D	2500	TRIODE NO. 2.
6B-B14	6.3	EV-1063-0	23	---	P4	D	2800	CAP=P. USE ADAPTER SA-R, 1050-16R.
6BD7A	6.3	EV-2103-0	1.3	---	P4	E	790	TRIODE SECTION.
6BD7A	6.3	EV-0603-0	0.0	---	P1	C	----	DIODE NO. 1. NOTE 3.
6BD7A	6.3	EV-0803-0	0.0	---	P1	C	----	DIODE NO. 2. NOTE 3.
6BJ5	6.3	ET-1572-0	1.0	---	P4	C	5000	
6BK8	6.3	EV-9613-8	1.5	---	P4	D	1150	
6BL8	6.3	EV-2637-1	1.2	---	P4	C	3000	PENTODE SECTION.
6BL8	6.3	EV-9108-6	4.8	---	P4	C	3000	TRIODE SECTION.
6BM8	6.3	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
6BM8	6.3	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
6BN5	6.3	EV-2793-0	4.0	---	P4	D	1850	
6BR3	6.3	EV-0009-0	0.0	50	P1	G	----	CAP = P. REVERSE METER. NOTE 3.
6BR5	6.3	EV-1902-0	VARY	100	P4	G	----	CONNECT A 1 MEGOHM RESISTOR FROM PLATE JACK TO OCTAL SOCKET PIN 7. VARY BIAS TO VARY BEAM ANGLE.

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT. COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
6BR7	6.3	EV-2783-9	3.0	---	P4	E	750	CAP = G. DIODE NO. 1. (SEE BELOW) DIODE NO. 2. (SEE BELOW) USE ADAPTER SA-5, 1050-129. NOTE 3
6BS7	6.3	EV-0783-9	3.0	---	P4	E	750	
6BT4	6.3	JR-0207-0	0.0	80	P3	G	----	
6BT4	6.3	JR-0607-0	0.0	80	P3	G	----	
6BW6	6.3	EV-2783-9	3.3	---	P4	D	2600	HEPTODE SECTION. TRIODE SECTION. PENTODE SECTION.
6BY7	6.3	EV-2781-9	2.0	---	P4	D	2500	
6C12	6.3	EV-2613-7	3.5	---	P4	D	950	
6C12	6.3	EV-9803-2	1.5	---	P4	D	2300	
6C18	6.3	EV-7328-0	1.0	---	P4	C	4600	
6C18	6.3	EV-9108-0	6.0	---	P4	D	3000	TRIODE SECTION. PLATE NO. 1. NOTE 3. PLATE NO. 2. NOTE 3. CONNECT TWO 1 MEG. RESISTORS FROM PLATE JACK TO PINS 3 & 6, RESP., OF ANY CONVENIENT TEST SOCKET. EYE 1 CLOSES AT BIAS OF ABOUT 5 & EYE 2 CLOSES AT BIAS OF ABOUT 20.
6CA4	6.3	EV-0703-0	0.0	87	P3	G	----	
6CA4	6.3	EV-0103-0	0.0	87	P3	G	----	
6C07	6.3	HS-4508-0	VARY	---	P5	A	----	
6CF8	6.3	EV-9613-8	1.5	---	P4	D	1150	USE HICKOK ADAPTER SA-5, 1050-129. USE HICKOK ADAPTER SA-5, 1050-129. CAP = P. CAP = P. PENTODE SECTION. DIODE SECT. USE ADAPTER SA-5, 1050-129. NOTE 3. HEXODE SECTION.
6CH6	6.3	EV-2783-9	0.0	---	P4	C	6500	
6CJ5	6.3	JR-6257-0	3.0	---	P4	E	950	
6CK5	6.3	JR-6257-0	1.0	---	P4	C	6300	
6CM4	6.3	EV-2103-0	1.2	---	P4	H	8800	
6CM5	6.3	HS-5048-0	11.0	---	P4	C	5000	
6CN6	6.3	HS-5048-1	0.0	---	P4	B	8500	CAP = P. PENTODE SECTION. DIODE SECT. USE ADAPTER SA-5, 1050-129. NOTE 3. HEXODE SECTION.
6C06	6.3	ET-1572-6	0.7	---	P4	D	1400	
6CT7	6.3	JR-6257-4	4.4	---	P4	E	750	
6CT7	6.3	JR-0307-0	0.0	---	P1	C	----	
6CU7	6.3	JR-6257-4	3.3	---	P4	F	800	TRIODE SECTION. USE ADAPTER SA-5, 1050-129.
6CU7	6.3	JR-4307-6	4.7	---	P4	E	950	
6CV7	6.3	JR-3207-0	1.3	---	P4	E	790	TRIODE SECTION (SEE BELOW) DIODE NO. 1. (SEE BELOW) NOTE 3. DIODE NO. 2. (SEE BELOW) NOTE 3. USE HICKOK ADAPTER SA-5, 1050-129.
6CV7	6.3	JR-0607-0	0.0	---	P1	C	----	
6CV7	6.3	JR-0507-0	0.0	---	P1	C	----	
6CW5	6.3	EV-2793-0	4.0	---	P4	C	4500	TRIODE NO. 1. TRIODE NO. 2. CONNECT A 1 MEGOHM RESISTOR FROM PLATE JACK TO OCTAL SOCKET PIN 7. VARY BIAS TO VARY BEAM ANGLE. PENTODE SECTION. DIODE NO. 1. NOTE 3.
6CW7	6.3	EV-6907-0	3.8	---	P4	C	3750	
6CW7	6.3	EV-2301-0	3.8	---	P4	C	3750	
6DA5	6.3	EV-1902-0	VARY	100	P4	G	----	
6DC8	6.3	EV-2613-9	2.6	---	P4	D	1800	PENTODE SECTION. DIODE NO. 1. NOTE 3.
6DC8	6.3	EV-0803-0	0.0	---	P1	C	----	
6DC8	6.3	EV-0703-0	0.0	---	P1	C	----	DIODE NO. 2. NOTE 3.
6DG7	6.3	EV-2783-9	1.0	---	P4	D	2070	
6DL4	6.3	EV-9802-0	1.3	---	P4	E	7500	PENTODE SECTION. DIODE NO. 1. NOTE 3. DIODE NO. 2. NOTE 3. HEPTODE SECT. MAKE NO GAS TEST. TRIODE SECT. MAKE NO GAS TEST. PENTODE SECTION.
6DL5	6.3	ET-1562-0	1.0	---	P4	D	2900	
6DR8	6.3	EV-2163-9	0.0	---	P1	D	----	
6DR8	6.3	EV-0803-0	0.0	---	P1	D	----	
6DR8	6.3	EV-0703-0	0.0	---	P1	D	----	PENTODE SECT. NOTE 3. DIODE NO. 1. NOTE 3. DIODE NO. 2. NOTE 3. HEPTODE SECT. MAKE NO GAS TEST. TRIODE SECT. MAKE NO GAS TEST. PENTODE SECTION.
6DS8	6.3	EV-7163-2	3.0	---	P1	E	300	
6DSR	6.3	EV-9803-0	0.8	---	P1	E	500	
6DX8	6.3	EV-8697-0	0.6	---	P4	C	6900	TRIODE SECTION. CAP=P. REVERSE METER. USE HICKOK ADAPTER SA-R, 1050-168. NOTE 3. CAP = G. USE HICKOK ADAPTER SA-R, 1050-168. NOTE 3. MAKE NO GAS TEST. NOTE 3. OK ABOVE 450 ON 3000 SCALE
6DX8	6.3	EV-1203-0	1.0	---	P4	D	2800	
6EC4	6.3	EV-0007-0	0.0	90	P3	G	----	
6ED4	6.3	EV-0801-0	0.0	---	P1	E	----	
6ES6	6.3	ET-7652-1	0.0	---	P1	E	----	MAKE NO GAS TEST. NOTE 3. OK ABOVE 450 ON 3000 SCALE
6ET6	6.3	ET-1652-7	0.0	---	P1	G	----	
6F12	6.3	ET-1572-6	1.0	---	P4	C	3800	USE HICKOK ADAPTER SA-5, 1050-129. USE HICKOK ADAPTER SA-5, 1050-129.
6F13	6.3	JR-6257-4	1.0	---	P4	C	4750	
6F14	6.3	JR-6257-4	0.5	---	P4	C	4750	

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6F16	6.3	JR-6257-0	3.0	---	P4	E	950	USE HICKOK ADAPTER SA-5, 1050-129.
6F19	6.3	EV-2781-9	2.0	---	P4	D	2500	
6F21	6.3	ET-1572-6	0.7	---	P4	D	1400	
6F22	6.3	EV-9613-8	1.5	---	P4	D	1150	
6F26	6.3	EV-2781-9	2.0	---	P4	D	2500	
6F29	6.3	FV-2781-9	2.8	---	P4	C	3200	
6F30	6.3	EV-2781-9	1.2	---	P4	C	4900	
6F33	6.3	ET-1572-6	1.5	---	P4	D	1500	
6FC7	6.3	EV-6908-0	2.4	---	P4	C	6000	
6FC7	6.3	EV-2301-0	2.4	---	P4	C	6000	
6FG6	6.3	EV-1603-0	11.0	---	P4	G	----	
6FG6	6.3	EV-1603-0	0.0	---	P4	G	----	
6FY5	6.3	ET-2501-6	1.4	---	P4	C	7000	
6G-A4	6.3	HS-1308-0	5.0	---	P4	C	6300	
6GH5	6.3	EV-2078-0	16.0	---	P4	C	5000	
6G-H8	6.3	HS-5348-0	4.4	---	P4	C	5600	
6GJ7	6.3	EV-2671-0	1.0	---	P4	C	4900	
6GJ7	6.3	EV-9803-0	4.2	---	P4	C	6100	
6GM8	6.3	EV-7608-0	1.8	---	P1	E	----	
6GM8	6.3	EV-2103-0	1.8	---	P1	E	----	
6GS7	6.3	EV-9678-0	0.4	---	P4	C	5000	
6GS7	6.3	EV-1203-0	5.0	---	P4	C	3100	
6GV7	6.3	EV-7328-0	1.0	---	P4	C	4600	
6GV7	6.3	EV-9108-0	6.0	---	P4	D	3000	
6GVR	6.3	EV-9678-0	8.0	---	P4	C	4100	
6GV8	6.3	EV-2103-0	2.0	---	P4	D	2800	
6GWH	6.3	EV-8637-1	1.0	---	P4	C	5500	
6GWH	6.3	EV-1902-0	0.7	---	P4	E	550	
6GX8	6.3	EV-8769-3	19.0	---	P4	A	----	
6GX8	6.3	EV-8769-3	6.0	---	P4	A	----	
6GX8	6.3	EV-0203-0	0.0	---	P1	D	----	
6HA5	6.3	ET-1507-6	1.2	---	P4	C	8000	
6HG8	6.3	EV-2893-0	0.8	---	P4	C	5000	
6HG8	6.3	EV-6703-0	8.0	---	P4	C	4000	
6HK8	6.3	EV-7608-9	2.0	---	P4	C	4000	
6HK8	6.3	EV-2103-9	2.0	---	P4	C	4000	
6HU6	6.3	EV-1603-0	6.0	---	P4	G	----	
6HU6	6.3	EV-1603-0	0.0	---	P4	G	----	
6HU8	6.3	EV-2317-0	2.0	---	P4	D	3300	
6HU8	6.3	EV-6897-0	2.0	---	P4	D	3300	
6JW8	6.3	EV-2637-0	1.6	---	P4	D	2400	
6JW8	6.3	EV-9108-0	1.1	---	P4	D	2200	
6JX8	6.3	EV-2673-1	0.4	---	--	E	750	
6JX8	6.3	EV-9803-0	0.2	---	P4	D	2025	
6KG6	6.3	EV-1039-2	27.0	---	P4	D	2600	
6KH8	6.3	EV-2397-0	2.0	---	P4	C	3400	
6KH8	6.3	EV-5897-0	2.0	---	P4	C	3400	
6KH8	6.3	EV-2107-0	2.0	---	P4	F	80	
6KN8	6.3	EV-7608-0	2.2	---	P4	B	7900	
6KN8	6.3	EV-2103-0	2.2	---	P4	B	7900	
6KW6	6.3	EV-1637-0	12.0	---	P4	D	2600	
6L12	6.3	EV-7608-9	1.6	---	P4	D	2500	

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TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
6L12	6.3	EV-2103-9	1.6	---	P4	D	2500	TRIODE NO. 2.
6L13	12.6	EV-7608-0	1.3	---	P4	D	875	TRIODE NO. 1.
6L13	12.6	EV-2103-0	1.3	---	P4	D	875	TRIODE NO. 2.
6LD3	6.3	JR-3207-0	1.3	---	P4	E	790	TRIODE SECTION. (SEE BELOW)
6LD3	6.3	JR-0607-0	0.0	---	P1	C	----	DIODE NO. 1. (SEE BELOW) NOTE 3.
6LD3	6.3	JR-0507-0	0.0	---	P1	C	----	DIODE NO. 2. (SEE BELOW) NOTE 3.
6LD12	6.3	EV-8907-0	1.3	---	P4	E	750	USE HICKOK ADAPTER SA-5, 1050-129.
6LD12	6.3	EV-0607-0	0.0	---	P1	D	----	TRIODE SECTION.
6LD12	6.3	EV-0203-0	0.0	---	P1	E	----	DIODE NO. 1. NOTE 3.
6LD12	6.3	EV-0107-0	0.0	---	P1	E	----	DIODE NO. 2. NOTE 3.
6LD12	6.3	EV-0107-0	0.0	---	P1	E	----	DIODE NO. 3. NOTE 3.
6LD13	6.3	EV-2103-0	1.3	---	P4	E	790	TRIODE SECTION.
6LD13	6.3	EV-0603-0	0.0	---	P1	C	----	DIODE NO. 1. NOTE 3.
6LD13	6.3	EV-0803-0	0.0	---	P1	C	----	DIODE NO. 2. NOTE 3.
6LN8	6.3	EV-2637-1	1.2	---	P4	C	3000	PENTODE SECTION.
6LN8	6.3	EV-9108-6	4.8	---	P4	C	3000	TRIODE SECTION.
6LX8	6.3	EV-2637-0	1.6	---	P4	D	2400	PENTODE SECTION.
6LX8	6.3	EV-9108-0	1.1	---	P4	D	2200	TRIODE SECTION.
6M5	6.3	EV-2713-0	1.0	---	P4	C	6300	
6MG8	6.3	EV-2637-0	1.0	---	P4	D	2500	PENTODE SECTION.
6MG8	6.3	EV-9108-0	1.0	---	P4	C	4700	TRIODE SECTION.
6M-HH3	6.3	ET-6107-0	1.5	---	P4	C	5500	TRIODE NO. 1.
6M-HH3	6.3	ET-5207-0	1.5	---	P4	C	5500	TRIODE NO. 2.
6N3	6.3	EV-0903-0	0.0	90	P3	G	----	NOTE 3.
6PL12	6.3	EV-3672-0	7.4	---	P4	D	2700	USE ADAPTER SA-3, 1050-127 OR CA-4
6PL12	6.3	EV-1908-0	0.6	---	P4	E	1350	1050-135. NOTE 7.
6R3	6.3	EV-0009-0	0.0	90	P3	G	----	PLATE VOLTS=LOW. USE ADAPTER SA-3,
6R-HH2	6.3	EV-7608-9	2.0	---	P4	C	4000	1050-127 OR CA-4, 1050-135. NOTE 7
6R-HH2	6.3	EV-2103-9	2.0	---	P4	C	4000	PENTODE SECTION.
6R-HH8	6.3	EV-7608-0	2.2	---	P4	B	7900	TRIODE SECTION.
6R-HH8	6.3	EV-2103-0	2.2	---	P4	B	7900	TRIODE NO. 1.
6R-K19	6.3	EV-0009-0	0.0	50	P1	G	----	TRIODE NO. 2.
6R-P15	6.3	EV-1793-0	1.0	---	P4	C	5000	CAP = P. REVERSE METER. NOTE 3.
6R-P22	6.3	EV-2631-7	1.0	---	P4	D	2350	
6U9	6.3	FW-W901-0	4.5	---	P4	C	3150	
6U9	6.3	FW-3782-4	1.5	---	P4	C	4400	TRIODE SECTION.
6V9	6.3	FW-3741-2	1.0	---	--	E	700	PENTODE SECTION. USE ADAPTER SA-11
6V9	6.3	FW-8W09-0	2.4	---	P4	C	3150	MODEL 539B# USE SA-11 & CA-4.
6X6	6.3	HS-5408-6	40.0	100	P5	G	----	NOTE 7.
6X6	6.3	HS-5438-6	40.0	100	P5	G	----	HEPTODE SECTION. HOLD DOWN P1 &
6X9	6.3	FW-3782-4	1.5	---	P4	C	4700	PRESS P4. USE ADAPTER SA-11. MODEL
6X9	6.3	FW-W901-0	1.2	---	P4	D	3000	539B# USE SA-11 & CA-4. NOTE 7.
6Y9	6.3	FW-8W97-0	2.2	---	P4	C	6300	TRIODE SECTION.
7AN7	7.5	EV-6907-0	3.8	---	P4	C	3750	PENTODE NO. 1. USE ADAPTER SA-11.
7AN7	7.5	EV-2301-0	3.8	---	P4	C	3750	MODEL 539B# USE SA-11 & CA-4.
7D9	6.3	ET-1572-0	5.3	---	P4	D	1650	NOTE 7.
7ES8	7.5	EV-7608-0	2.4	---	P4	C	7500	PENTODE NO. 2.
7ES8	7.5	EV-2103-0	2.4	---	P4	C	7500	TRIODE NO. 1.
7F16	6.3	JR-6257-0	3.0	---	P4	E	950	TRIODE NO. 2.
7FC7	7.5	EV-6908-0	2.4	---	P4	C	6000	USE HICKOK ADAPTER SA-5, 1050-129.
7FC7	7.5	EV-2301-0	2.4	---	P4	C	6000	TRIODE NO. 1.
7GS7	7.5	EV-9678-0	0.4	---	P4	C	5000	PENTODE SECTION.

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TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT. COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
7GS7	7.5	EV-1203-0	5.0	---	P4	C	3100	TRIODE SECTION.
7GV7	7.5	EV-7328-0	1.0	---	P4	C	4600	PENTODE SECTION.
7GV7	7.5	EV-9108-0	6.0	---	P4	D	3000	TRIODE SECTION.
7HG8	7.5	EV-2893-0	0.8	---	P4	C	5050	PENTODE SECTION.
7HG8	7.5	EV-6703-0	8.0	---	P4	C	4000	TRIODE SECTION.
8A8	10.0	EV-2637-1	1.2	---	P4	C	3000	PENTODE SECTION.
8A8	10.0	EV-9108-6	4.8	---	P4	C	3000	TRIODE SECTION.
8B8	7.5	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
8B8	7.5	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
8CW5	7.5	EV-2793-0	4.0	---	P4	C	4500	
8D3	6.3	ET-1572-6	1.0	---	P4	C	3800	
8D5	6.3	EV-2783-9	3.0	---	P4	E	750	
8D6	6.3	EV-2781-9	0.5	---	P4	C	4500	
8D7	6.3	EV-0783-9	3.0	---	P4	E	750	CAP = G.
8D8	6.3	EV-9613-8	1.5	---	P4	D	1150	
8DX8	7.5	EV-8697-0	0.6	---	P4	C	6900	PENTODE SECTION.
8DX8	7.5	EV-1203-0	1.0	---	P4	D	2800	TRIODE SECTION.
8GJ7	7.5	EV-2671-0	1.0	---	P4	C	4900	PENTODE SECTION.
8GJ7	7.5	EV-9803-0	4.2	---	P4	C	6100	TRIODE SECTION.
8U9	7.5	FW-3782-4	1.5	---	P4	C	4400	PENTODE SECTION. USE ADAPTER SA-11 MODEL 539R# USE SA-11 & CA-4. NOTE 7.
8U9	7.5	FW-W901-0	4.5	---	P4	C	3150	TRIODE SECTION.
8X9	7.5	FW-3782-4	1.5	---	P4	C	4700	PENTODE SECTION. USE ADAPTER SA-11 MODEL 539R# USE SA-11 & CA-4. NOTE 7.
8X9	7.5	FW-W901-0	1.2	---	P4	D	3000	TRIODE SECTION.
9A8	10.0	EV-2637-1	1.2	---	P4	C	3000	PENTODE SECTION.
9A8	10.0	EV-9108-6	4.8	---	P4	C	3000	TRIODE SECTION.
9A84	10.0	ET-6107-0	1.6	---	P4	D	2500	
9AK8	10.0	EV-8907-6	1.3	---	P4	E	750	TRIODE SECTION.
9AK8	10.0	EV-0607-1	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
9AK8	10.0	EV-0203-7	0.0	---	P1	E	----	DIODE NO. 2. NOTE 3.
9AK8	10.0	EV-0107-8	0.0	---	P1	F	----	DIODE NO. 3. NOTE 3.
9AQ8	10.0	EV-7608-9	1.6	---	P4	D	2500	TRIODE NO. 1.
9AQ8	10.0	EV-2103-9	1.6	---	P4	D	2500	TRIODE NO. 2.
9BR8	10.0	EV-9678-0	0.8	---	P4	D	2400	PENTODE SECTION.
9BR8	10.0	EV-1203-0	1.0	---	P4	C	5350	TRIODE SECTION.
9BW6	10.0	EV-2783-9	3.3	---	P4	D	2600	
9CG8A	10.0	EV-9678-0	1.2	---	P4	C	2900	PENTODE SECTION.
9CG8A	10.0	EV-1203-0	2.0	---	P4	C	3650	TRIODE SECTION.
9D6	6.3	ET-1572-6	0.7	---	P4	D	1400	
9ED4	7.5	EV-0801-0	0.0	---	P1	E	----	CAP = G. USE HICKOK ADAPTER SA-R, 1050-168. NOTE 3.
9GH8A	10.0	EV-2637-0	1.7	---	P4	D	2500	PENTODE SECTION.
9GH8A	10.0	EV-9108-0	1.3	---	P4	C	5300	TRIODE SECTION.
9GV8	10.0	EV-9678-0	8.0	---	P4	C	4100	PENTODE SECTION.
9GV8	10.0	EV-2103-0	2.0	---	P4	D	2800	TRIODE SECTION.
9JW8	10.0	EV-2637-0	1.6	---	P4	D	2400	PENTODE SECTION.
9JW8	10.0	EV-9108-0	1.1	---	P4	D	2200	TRIODE SECTION.
9V9	10.0	FW-3741-2	1.0	---	--	E	700	HEPTODE SECTION. HOLD DOWN P1 & PRESS P4. USE ADAPTER SA-11. MODEL 539R# USE SA-11 & CA-4. NOTE 7.
9V9	10.0	FW-8W09-0	2.4	---	P4	C	3150	TRIODE SECTION.
10C14	20.0	EV-2613-7	3.5	---	P4	D	950	HEPTODE SECTION.
10C14	20.0	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
10CW5	10.0	EV-2793-0	4.0	---	P4	C	4500	
10D2	20.0	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
10D2	20.0	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
10DX8	10.0	EV-8697-0	0.6	---	P4	C	6900	PENTODE SECTION.
10DX8	10.0	EV-1203-0	1.0	---	P4	D	2800	TRIODE SECTION.
10FD12	20.0	EV-2613-9	2.6	---	P4	D	1800	PENTODE SECTION.
10FD12	20.0	EV-0803-0	0.0	---	P1	C	----	DIODE NO. 1. NOTE 3.
10FD12	20.0	EV-0705-0	0.0	---	P1	C	----	DIODE NO. 2. NOTE 3.

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
10GV8	10.0	EV-9678-0	8.0	---	P4	C	4100	PENTODE SECTION.
10GV8	10.0	EV-2103-0	2.0	---	P4	D	2800	TRIODE SECTION.
10LD3	12.6	JR-3207-0	1.3	---	P4	E	790	TRIODE SECTION (SEE BELOW)
10LD3	12.6	JR-0607-0	0.0	---	P1	C	----	DIODE NO. 1. (SEE BELOW) NOTE 3.
10LD3	12.6	JR-0507-0	0.0	---	P1	C	----	DIODE NO. 2. (SEE BELOW) NOTE 3.
10LD12	25.0	EV-8907-0	1.3	---	P4	E	750	USE HICKOK ADAPTER SA-5, 1050-129.
10LD12	25.0	EV-0607-0	0.0	---	P1	D	----	TRIODE SECTION.
10LD12	25.0	EV-0203-0	0.0	---	P1	E	----	DIODE NO. 1. NOTE 3.
10LD12	25.0	EV-0107-0	0.0	---	P1	E	----	DIODE NO. 2. NOTE 3.
10LD13	12.6	EV-2103-0	1.3	---	P4	E	790	DIODE NO. 3. NOTE 3.
10LD13	12.6	EV-0603-0	0.0	---	P1	C	----	TRIODE SECTION.
10LD13	12.6	FV-0803-0	0.0	---	P1	C	----	DIODE NO. 1. NOTE 3.
10LD14	25.0	EV-7608-9	1.6	---	P4	D	2500	TRIODE NO. 1.
10LD14	25.0	EV-2103-9	1.6	---	P4	D	2500	TRIODE NO. 2.
10PL8	50.0	EV-2793-0	4.0	---	P4	C	4500	
10PL12	50.0	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
10PL12	50.0	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
118M8	10.0	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
118M8	10.0	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
11Y9	10.0	FW-8M97-0	2.2	---	P4	C	6300	
11R3	10.0	EV-0009-0	0	90	P3	F	----	CAP=P. REVERSE METER. NOTE 1.
11Y9	10.0	FW-1432-0	1.0	---	P4	C	5300	PENTODE NO. 1. USE ADAPTER SA-11.
12AC5	12.6	JR-6257-0	3.0	---	P4	E	950	MODEL 539B# USE SA-11 & CA-4.
12AJ7	12.6	EV-2613-7	3.5	---	P4	D	950	NOTE 7.
12AJ7	12.6	EV-9803-2	1.5	---	P4	D	2300	PENTODE NO. 2.
12B-814	12.6	EV-1063-0	23.0	---	P4	D	2800	USE HICKOK ADAPTER SA-5, 1050-129.
12BR3	12.6	EV-0009-0	0.0	50	P1	G	----	HEPTODE SECTION.
12HX6	12.6	EV-2781-9	0.5	---	P4	C	4500	TRIODE SECTION.
12DA6	12.6	EV-2783-9	2.2	---	P4	D	1900	CAP=P. USE ADAPTER SA-8, 1050-168.
12DW4A	12.6	EV-0209-0	0.0	82	P3	G	----	CAP = P. REVERSE METER. NOTE 3.
12F07	12.6	EV-7608-0	3.7	---	P4	D	1640	USE ADAPTER SA-4, 1050-144 OR CA-4
12F07	12.6	EV-2103-0	3.7	---	P4	D	1640	1050-135 WITH MODEL 539B. MODEL
12G83	12.6	HS-5048-0	8.0	---	P4	C	7400	539C REQUIRES NO ADAPTER. NOTE 3.
12G-K17	12.6	HY-0503-0	0.0	89	P3	G	----	TRIODE NO. 1.
12HU8	12.6	EV-2317-0	2.0	---	P4	D	3300	TRIODE NO. 2.
12HU8	12.6	EV-6897-0	2.0	---	P4	D	3300	CAP = P.
12RK19	12.6	EV-0009-0	0.0	50	P1	G	----	NOTE 3.
12K-K21	12.6	EV-0009-0	0	90	P3	G	----	PENTODE NO. 1.
12S7	12.6	JR-6257-4	4.4	---	P4	E	750	PENTODE NO. 2.
12S7	21.6	JR-0307-0	0.0	---	P1	C	----	CAP = P. REVERSE METER. NOTE 3.
13CW5	12.6	HS-5048-0	11.0	---	P4	C	5000	CAP=P. REVERSE METER.
1301	25.0	HY-4506-2	3.7	---	P4	D	1640	PENTODE SECTION. USE HICKOK
1301	25.0	HY-1203-5	3.7	---	P4	D	1640	ADAPTER SA-5, 1050-129.
1302	6.3	HY-4506-2	3.7	---	P4	D	1640	DIODE SECTION. NOTE 3.
1302	6.3	HY-1203-5	3.7	---	P4	D	1640	CAP = P.
13GR5	12.6	EV-2078-0	16.0	---	P4	C	5000	TRIODE NO. 1.
14GWR	12.6	EV-8637-0	1.0	---	P4	C	5500	TRIODE NO. 2.
14GWR	12.6	EV-1902-0	0.7	---	P4	E	550	TRIODE NO. 1.
14K7	12.6	JR-6257-4	3.3	---	P4	E	800	TRIODE NO. 2.
14K7	12.6	JR-4307-6	4.7	---	P4	E	950	TRIODE NO. 1.
14L7	12.6	JR-3207-0	1.3	---	P4	E	790	TRIODE NO. 2.
14L7	12.6	JR-0607-0	0.0	---	P1	C	----	CAP=P. USE ADAPTER SA-8, 1050-168.
14L7	12.6	JR-0507-0	0.0	---	P1	C	----	TRIODE SECTION.
15CW5	12.6	EV-2793-0	8.0	---	P4	C	6300	DIODE NO. 1. NOTE 3.
15D08	12.6	EV-8697-0	0.6	---	P4	C	6900	DIODE NO. 2. USE ADAPTER SA-5,
								1050-129. NOTE 3.
								SET POWER ADJUST AT 114V.
								PENTODE SECTION.
								SEE NEXT PAGE FOR CONTINUATION

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT. COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
15D08	12.6	EV-1203-0	1.0	---	P4	D	2800	TRIODE SECTION.
16A5	20.0	EV-2793-0	6.0	---	P4	D	3500	DISREGARD SHORTS TEST AFTER GM TEST IS COMPLETED. ALLOW 60 SEC. FOR WARM-UP & 5 SEC. FOR GM READINGS. KEEP LINE ADJUSTED AT 80 V.
16A8	20.0	EV-3672-0	7.2	---	P4	D	3100	PENTODE SECTION.
16A8	20.0	EV-1908-0	0.5	---	P4	D	1650	TRIODE SECTION.
16AQ3	12.6	EV-0009-0	0.0	89	P3	G	----	REVERSE METER. CAP = P. NOTE 3.
16Y9	20.0	FW-8W97-0	1.4	---	P4	C	6300	PENTODE NO. 1. USE ADAPTER SA-11. MODEL 539H# USE SA-11 & CA-4. NOTE 7. SET POWER ADJUST AT 90 V.
16Y9	20.0	FW-1432-0	0.5	---	P4	C	5300	PENTODE NO. 2.
17A8	20.0	EV-2637-0	1.2	---	P4	C	3000	PENTODE SECTION (SEE BELOW)
17A8	20.0	EV-9108-0	4.8	---	P4	C	3000	TRIODE SECTION (SEE BELOW)
17A89	20.0	FW-978W-0	1.5	---	P4	C	3500	SET CATH ACT SWITCH TO TEST. TETRODE NO. 1. USE ADAPTER SA-11. MODEL 539H# USE SA-11 & CA-4. NOTE 7. SET POWER ADJUST AT 85 V.
17A89	20.0	FW-3124-0	1.5	---	P4	C	3500	TETRODE NO. 2.
17A-B14	20.0	EV-1063-0	23.0	---	P4	D	2800	CAP = P. SET 'POWER ADJUST' AT 87V
17BR3	20.0	EV-0009-0	0.0	90	P3	G	----	USE HICKOK ADAPTER SA-8, 1050-168. CAP = P. REVERSE METER. SET 'POWER ADJUST' AT 90V. NOTE 3.
17C8	20.0	EV-2613-9	0.9	---	P4	E	1400	PENTODE SECTION.
17C8	20.0	EV-0703-0	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
17C8	20.0	EV-0803-0	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
17DW4A	20.0	EV-0209-0	0.0	90	P3	G	----	SET POWER ADJUST AT 90V. NOTE 3. USE ADAPTER SA-4, 1050-144 OR CA-4 1050-135 WITH MODEL 539H. MODEL 539C REQUIRES NO ADAPTER.
17FW8	20.0	EV-7608-0	1.5	---	P4	C	3600	TRIODE NO. 1.
17FW8	20.0	EV-2103-0	1.5	---	P4	C	3600	TRIODE NO. 2.
17KW6	20.0	EV-1637-0	12.0	---	P4	D	2600	SET CATH. ACT TO TEST POSITION.
17R-K19	20.0	EV-0009-0	0.0	90	P3	G	----	USE HICKOK ADAPTER SA-8, 1050-168. CAP = P. REVERSE METER. SET POWER ADJUST AT 90V. NOTE 3.
17Z3	20.0	EV-0009-0	0.0	---	P3	F	----	CAP = P. REVERSE METER. NOTE 3.
18G85	20.0	EV-2078-0	16.0	---	P4	C	5000	CAP=P. USE ADAPTER SA-8, 1050-168.
18GV8	20.0	EV-9678-0	8.0	---	P4	C	4100	PENTODE SECTION.
18GV8	20.0	EV-2103-0	2.0	---	P4	D	2800	TRIODE SECTION.
18J6	20.0	ET-5207-0	1.8	---	P4	C	3340	TRIODE NO. 1.
18J6	20.0	ET-6107-0	1.8	---	P4	C	3340	TRIODE NO. 2.
19AJ8	20.0	EV-2613-7	3.5	---	P4	D	950	HEPTODE SECTION.
19AJ8	20.0	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
19KR5	20.0	EV-1902-0	VARY	100	P4	G	----	CONNECT A 1 MEGOHM RESISTOR FROM PLATE JACK TO OCTAL SOCKET PIN 7. VARY BIAS TO VARY BEAM ANGLE.
19HX6	20.0	EV-2781-9	0.5	---	P4	C	4500	
19RY7	20.0	EV-2781-9	2.0	---	P4	D	2500	
19D8	20.0	EV-2613-7	3.5	---	P4	D	950	HEPTODE SECTION.
19D8	20.0	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
19EW7	20.0	EV-7608-0	5.4	---	P4	E	1200	TRIODE NO. 1.
19FW7	20.0	EV-2109-0	17.0	---	P4	C	5000	TRIODE NO. 2.
19FL8	20.0	EV-2613-9	2.6	---	P4	D	1800	PENTODE SECTION.
19FL8	20.0	EV-0803-0	0.0	---	P1	C	----	DIODE NO. 1. NOTE 3.
19FL8	20.0	EV-0703-0	0.0	---	P1	C	----	DIODE NO. 2. NOTE 3.
19G3	4.3	HS-0000-0	0.0	---	P3	G	----	CAP = P. NOTE 3.
19KF6	20.0	EV-7963-2	20.0	---	P4	C	4400	USE HICKOK ADAPTER SA-8, 1050-168.
20A3	6.3	ET-1602-5		89	P5	G	----	STRIKES AT ABOUT 1.8V. NOTE 2.
20A03	20.0	EV-0009-0	0.0	89	P3	G	----	CAP = P. REVERSE METER. NOTE 3.
21K06	20.0	EV-8039-2	7.0	---	P4	C	5700	CAP = P. PLATE VOLTS = LOW. USE HICKOK ADAPTER SA-8, 1050-168.
23JS6A	25.0	H3-5032-4	25.0	---	P4	C	3150	CAP = P. NOTE 7.
25B-B14	25.0	FV-1063-0	23	---	P4	D	2800	CAP=P. USE ADAPTER SA-8, 1050-168.
25BR3	25.0	EV-0009-0	0.0	50	P1	G	----	CAP = P. REVERSE METER. NOTE 3.

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
25E5	25.0	HS-5048-0	11.0	---	P4	C	5000	CAP = P. CAP = P. REVERSE METER. NOTE 3. TRIODE NO. 1. TRIODE NO. 2.
25R-K19	25.0	EV-0009-0	0.0	50	P1	G	----	
26A08	25.0	EV-7608-9	1.6	---	P4	D	2500	
26A08	25.0	EV-2103-9	1.6	---	P4	D	2500	
27G85	25.0	EV-2078-0	16.0	---	P4	C	5000	CAP=P. USE ADAPTER SA-8, 1050-168. CAP=P. USE ADAPTER SA-8, 1050-168. TRIODE SECTION. DIODE NO. 1. NOTE 3. DIODE NO. 2. NOTE 3.
27K66	25.0	EV-1039-2	27.0	---	P4	D	2600	
28AK8	25.0	EV-8907-0	1.3	---	P4	E	750	
28AK8	25.0	EV-0607-0	0.0	---	P1	D	----	
28AK8	25.0	EV-0203-0	0.0	---	P1	E	----	
28AK8	25.0	EV-0107-0	0.0	---	P1	E	----	
28FC4	25.0	EV-0007-0	0.0	90	P3	G	----	DIODE NO. 3. NOTE 3.
29K06	25.0	EV-8039-2	7.0	---	P4	C	5700	CAP = P. REVERSE METER. USE ADAPTER SA-8, 1050-168. NOTE 3.
30A5	35.0	KT-2761-0	4.0	---	P4	C	4500	CAP = P. PLATE VOLTS = LOW. USE HICKOK ADAPTER SA-8, 1050-168. BEFORE PLACING TUBE IN SOCKET, COUNT COUNTERCLOCKWISE AND JUMPER A 33 OHM, 2 WATT RESISTOR BETWEEN PINS 4 & 9 OF 9 PIN MIN. SOCKET. CAP = P. REVERSE METER. NOTE 3.
30AE3	25.0	EV-0009-0	0.0	89	P3	G	----	
30L1	7.3	EV-6907-0	3.8	---	P4	C	3750	TRIODE NO. 1.
30L1	7.3	EV-2301-0	3.8	---	P4	C	3750	TRIODE NO. 2.
31A3	35.0	HY-0207-0	0.0	82	P3	G	----	SET POWER ADJUST TO 85V. USE ADAPTER SA-5, 1050-129. NOTE 3.
31AV3	35.0	FV-0903-0	0.0	82	P3	G	----	SET POWER ADJUST TO 85V. NOTE 3.
32A8	35.0	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
32A8	35.0	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
34R3	35.0	EV-0009-0	0.0	90	P3	G	----	CAP = P. REVERSE METER. NOTE 3.
3505	35.0	FV-1623-0	1.5	---	---	C	3650	HOLD DOWN P1 AND PRESS P4.
38A3	35.0	FV-0903-0	0.0	88	P3	G	----	NOTE 3.
40K66	35.0	FV-1039-2	27.0	---	P4	D	2600	CAP=P. USE ADAPTER SA-8, 1050-168.
42FC4	50.0	FV-0007-0	0.0	90	P3	G	----	CAP = P. METER REVERSE USE HICKOK ADAPTER SA-8, 1050-168. NOTE 3.
45A5	50.0	JR-6257-0	1.0	---	P4	C	6300	USE HICKOK ADAPTER SA-5, 1050-129.
45B5	50.0	EV-2793-0	4.0	---	P4	C	4500	
50BM8	50.0	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
50BM8	50.0	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
50E5	50.0	HS-5048-0	11.0	---	P4	C	5000	CAP = P.
50JY6	50.0	HS-5048-3	15.0	---	P4	C	4100	CAP = P.
85A1	OFF	AP-0208-0	---	---	P4	H	85V	STARTS AT ABOUT 120V. REGULATION = 3 VOLTS FROM 1 TO 8MA.
85A2	OFF	AP-0102-0	---	---	P4	H	85V	STARTS AT ABOUT 125V. REGULATION = 3 VOLTS FROM 1 TO 10MA.
90C1	OFF	AP-0507-0	---	---	P4	H	90V	REGULATION = 14 VOLTS, 1 TO 40 MA.
95A1	OFF	AP-0501-0	---	---	P4	H	95V	REGULATION = 5 VOLTS, 2 TO 10 MA. CONNECT A 470K RESISTOR BETWEEN PINS 1, 4, ANY SOCKET ON TESTER.
108C1	OFF	AP-0502-0	---	---	P4	H	108V	STARTS AT ABOUT 110 VOLTS.
150B2	OFF	AP-0102-0	---	---	P4	H	150V	STARTS AT ABOUT 115V. REGULATION = 2 VOLTS FROM 5 TO 30 MA.
150C2	OFF	AP-0502-0	---	---	P4	H	150V	STARTS UNDER 180V. REGULATION = 5 VOLTS FROM 5 TO 15 MA.
5894	12.6	HK-6034-0	5.6	---	P4	D	2400	STARTS AT ABOUT 155V REGULATION = 2 VOLTS FROM 5 TO 30 MA. PLATE NO. 1. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 2-, 4+, & CONNECT PLATE JACK TO RIGHT CAP.
5894	12.6	HR-2034-0	5.6	---	P4	D	2400	PLATE NO. 2. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 6-, 4+, & CONNECT PLATE JACK TO LEFT CAP.
5911	0.6	DV-4120-0	5.7	---	P4	F	65	NOTE 6.
5913	1.1	DV-4120-0	4.4	---	P4	F	260	NOTE 6.
5920	6.3	ET-5207-0	4.8	---	P4	D	3150	TRIODE NO. 1.
5920	6.3	ET-6107-0	4.8	---	P4	D	3150	TRIODE NO. 2.
6042	25.0	HY-4506-2	3.7	---	P4	D	1640	TRIODE NO. 1.
6042	25.0	HY-1203-5	3.7	---	P4	D	1640	TRIODE NO. 2.
6057	12.6	EV-7608-0	1.3	---	P4	D	875	TRIODE NO. 1.

SEE NEXT PAGE FOR CONTINUATION

TUBE TYPE	FIL.	SELECTOKS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
6057	12.6	EV-2103-0	1.3	---	P4	D	875	TRIODE NO. 2.
6059	6.3	EV-2783-9	3.0	---	P4	E	750	
6060	12.6	EV-7608-0	1.6	---	P4	D	2500	TRIODE NO. 1.
6060	12.6	EV-2103-0	1.6	---	P4	D	2500	TRIODE NO. 2.
6061	6.3	EV-2783-9	3.3	---	P4	D	2600	
6063	6.3	ET-0607-1	0.0	85	P3	G	----	PLATE NO. 1. NOTE 3.
6063	6.3	ET-0107-6	0.0	85	P3	G	----	PLATE NO. 2. NOTE 3.
6064	6.3	ET-1572-6	1.0	---	P4	C	3800	
6065	6.3	ET-1572-6	0.7	---	P4	D	1400	
6066	6.3	ET-1702-0	1.5	---	P4	E	820	TRIODE SECTION.
6066	6.3	ET-1602-0	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
6066	6.3	ET-1502-0	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
6067	12.6	EV-7608-0	3.2	---	P4	D	1950	TRIODE NO. 1.
6067	12.6	EV-2103-0	3.2	---	P4	D	1950	TRIODE NO. 2.
6118	6.3	HS-0308-1	2.3	---	P4	E	500	TRIODE SECTION CAP = G.
6118	6.3	HS-0508-3	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
6118	6.3	HS-0408-3	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
6132	6.3	EV-2783-9	0.0	---	P4	C	6500	
6227	6.3	EV-2783-9	2.2	---	P4	C	4200	
6252	12.6	HR-2034-0	5.0	---	P4	E	1550	TETRODE NO. 1. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE # 6-, 4+, & CONNECT PLATE JACK TO LEFT CAP.
6252	12.6	HR-6034-0	5.0	---	P4	E	1550	TETRODE NO. 2. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE # 2-, 4+, & CONNECT PLATE JACK TO RIGHT CAP.
6267	6.3	EV-9613-8	1.5	---	P4	D	1150	
6360	12.6	EV-3872-0	8.0	---	P4	D	2100	TETRODE NO. 1. NOTE # 1-, 2+.
6360	12.6	EV-1672-0	8.0	---	P4	D	2100	TETRODE NO. 2. NOTE # 3-, 2+.
6374	6.3	EV-0003-0	0.0	RR	P3	G	----	CAP = P. NOTE 3.
6375	1.1	EV-1800-0	4.5	---	P4	D	2150	NOTE 6.
6516	6.3	ET-1572-0	5.3	---	P4	D	1650	
6686	6.3	EV-2783-9	1.0	---	P4	C	4600	
6687	6.3	ET-1562-7	1.0	---	P4	D	630	GRID NO. 1. PLATE VOLTS = LOW.
6687	6.3	ET-7562-1	1.8	---	P4	D	630	GRID NO. 3. PLATE VOLTS = LOW.
6688	6.3	EV-2791-8	0.4	---	P4	C	7000	
6689	6.3	EV-2613-9	2.1	---	P4	C	4200	
6761	6.3	EV-2173-0	8.0	---	P4	C	5000	
6907	12.6	HR-2034-0	5.0	---	P4	E	1550	TETRODE NO. 1. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE # 6-, 4+, & CONNECT PLATE JACK TO LEFT CAP.
6907	12.6	HR-6034-0	5.0	---	P4	E	1550	TETRODE NO. 2. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE # 2-, 4+, & CONNECT PLATE JACK TO RIGHT CAP.
6922	6.3	EV-7608-0	2.6	---	P4	C	7000	TRIODE NO. 1.
6922	6.3	EV-2103-0	2.6	---	P4	C	7000	TRIODE NO. 2.
6927	6.3	ET-5207-0	1.8	---	P4	C	3340	TRIODE NO. 1.
6927	6.3	ET-6107-0	1.8	---	P4	C	3340	TRIODE NO. 2.
6939	12.6	EV-3872-0	3.5	---	P4	D	3150	TETRODE NO. 1. NOTE # 1-, 2+.
6939	12.6	EV-1672-0	3.5	---	P4	D	3150	TETRODE NO. 2. NOTE # 3-, 2+.
7062	12.6	EV-7608-1	1.8	---	P4	C	4100	TRIODE NO. 1. BIAS CUTOFF-6V.
7062	12.6	EV-2103-6	1.8	---	P4	C	4100	TRIODE NO. 2. BIAS CUTOFF - 6V.
7308	6.3	EV-7608-0	2.6	---	P4	C	7000	TRIODE NO. 1.
7308	6.3	EV-2103-0	2.6	---	P4	C	7000	TRIODE NO. 2.
7320	6.3	EV-2793-0	1.0	---	P4	C	5650	TUBES INDICATING GAS# RETEST USING EV-1793-0. CAP = P.
7534	6.3	HS-5048-0	15.0	---	P4	C	4000	
7643	6.3	EV-2637-1	1.2	---	P4	C	3000	PENTODE SECTION.
7643	6.3	EV-9108-6	4.8	---	P4	C	3000	TRIODE SECTION.
7645	12.6	EV-3872-0	3.5	---	P4	D	3150	TETRODE NO. 1. NOTE # 1-, 2+.
7645	12.6	EV-1672-0	3.5	---	P4	D	3150	TETRODE NO. 2. NOTE # 3-, 2+.
7693	6.3	ET-1562-7	0.8	---	P4	C	2150	
7694	6.3	ET-1562-7	0.8	---	P4	C	2400	
7699	12.6	EV-3872-0	3.5	---	P4	D	3150	TETRODE NO. 1. NOTE # 1-, 2+.
7699	12.6	EV-1672-0	3.5	---	P4	D	3150	TETRODE NO. 2. NOTE # 3-, 2+.

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
7721	6.3	EV-2791-8	1.0	---	P4	B	6300	
7737	6.3	EV-2791-8	0.4	---	P4	C	7000	
7751	6.3	HS-5348-0	25.0	---	P4	C	3800	
7854	12.6	HR-6034-0	5.6	---	P4	D	2400	
7854	12.6	HR-2034-0	5.6	---	P4	D	2400	PLATE NO. 1. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 2-, 4+, & CONNECT PLATE JACK TO RIGHT CAP. PLATE NO. 2. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 6-, 4+, & CONNECT PLATE JACK TO LEFT CAP. USE HICKOK ADAPTER SA-8, 1050-168.
8233	6.3	EV-8139-0	0.0	---	P4	C	5700	
8255	6.3	EV-9802-0	1.3	---	P4	E	7500	
8278	6.3	EV-3986-0	5.8	---	P4	C	7300	USE HICKOK ADAPTER SA-8, 1050-168.
8348	1.4	EV-1670-3	1.0	---	P4	D	2200	TETRODE NO. 1.
8348	1.4	EV-3870-1	1.0	---	P4	D	2200	TETRODE NO. 2.
8416	12.6	EV-7608-0	2.6	---	P4	C	7000	TRIODE NO. 1.
8416	12.6	EV-2103-0	2.6	---	P4	C	7000	TRIODE NO. 2.
8458	12.6	EV-3872-0	8.0	---	P4	D	2100	TETRODE NO. 1. NOTE 8#1-,2+.
8458	12.6	EV-1672-0	8.0	---	P4	D	2100	TETRODE NO.2. NOTE 8#3-,2+. USE ADAPTER SA-4, 1050-144 OR CA-4, 1050-135. NOTE 7. 539C.. NOADAPTER REQ
8509	2.0	HU-6030-0	5.6	---	P4	D	2400	PLATE NO.1. USE ADAPTER SA-6, 1050-107. NOTE 8#2-,4+.CONNECT PLATE JACK CONNECTOR TO RIGHT CAP.
8509	2.0	HU-2030-0	5.6	---	P4	D	2400	PLATE NO. 2. NOTE 8#6-,4+.CONNECT THE PLATE JACK CONNECTOR TO LEFT CAP.
8556	6.3	EV-1802-0	0.0	---	P4	C	6300	USE RK = 470HM. SHUNT WITH 1000 MFD CAP.
8637	12.6	FZ-1672-0	8.0	---	P4	C	3100	TETRODE NO. 1. (SEE BELOW)
8637	12.6	FZ-3872-0	8.0	---	P4	C	3100	TETRODE NO. 2. (SEE BELOW)
8737	12.6	HR-6034-0	5.6	---	P4	D	2400	USE HICKOK ADAPTER SA-8, 1050-168. PLATE NO. 1. USE ADAPTER SA-6, 1050-107. NOTE 8#2-,4+. CONNECT PLATE JACK TO RIGHT CAP.
8737	12.6	HR-2034-0	5.6	---	P4	D	2400	PLATE NO. 2. USE ADAPTER SA-6, 1050-107. NOTE 8#6-4+. CONNECT PLATE JACK TO LEFT CAP.
18042	20.0	EV-2613-9	1.6	---	P4	C	5650	
18043	6.3	EV-2613-9	2.1	---	P4	C	4200	
18045	20.0	EV-2783-9	0.4	---	P4	C	5250	
18046	20.0	EV-2783-9	0.4	---	P4	C	5250	
18048	20.0	JR-6247-3	3.2	---	P4	D	2800	
A2900	12.6	EV-7608-0	1.6	---	P4	D	2500	TRIODE NO. 1.
A2900	12.6	EV-2103-0	1.6	---	P4	D	2500	TRIODE NO. 2.
AX9903	12.6	HR-6034-0	5.6	---	P4	D	2400	PLATE NO. 1. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 2-, 4+, & CONNECT PLATE JACK TO RIGHT CAP.
AX9903	12.6	HR-2034-0	5.6	---	P4	D	2400	PLATE NO. 2. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 6-, 4+, & CONNECT PLATE JACK TO LEFT CAP.
AX9910	12.6	HR-2034-0	5.0	---	P4	E	1550	TETRODE NO. 1. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 6-, 4+, & CONNECT PLATE JACK TO LEFT CAP.
AX9910	12.6	HR-6034-0	5.0	---	P4	E	1550	TETRODE NO. 2. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 2-, 4+, & CONNECT PLATE JACK TO RIGHT CAP.
A241	4.3	HY-0600-0	0.0	56	P3	G	----	PLATE NO. 1. (SEE BELOW) NOTE 3.
A241	4.3	JX-0200-0	0.0	51	P3	G	----	PLATE NO. 2. (SEE BELOW) NOTE 3. USE HICKOK ADAPTER SA-5, 1050-129.
836	12.6	HY-4506-2	3.7	---	P4	D	1640	TRIODE NO. 1.
836	12.6	HY-1203-5	3.7	---	P4	D	1640	TRIODE NO. 2.
865	6.3	HY-1203-5	0.4	---	P4	D	1640	TRIODE NO. 1.
865	6.3	HY-4506-2	3.7	---	P4	D	1640	TRIODE NO. 2.
8109	25.0	EV-7608-9	1.6	---	P4	D	2500	TRIODE NO. 1.
8109	25.0	EV-2103-9	1.6	---	P4	D	2500	TRIODE NO. 2.
8152	12.6	EV-7608-0	1.6	---	P4	D	2500	TRIODE NO. 1.
8152	12.6	EV-2103-0	1.6	---	P4	D	2500	TRIODE NO. 2.

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT. COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
B309	12.6	EV-7608-0	1.6	---	P4	D	2500	TRIODE NO. 1.
B309	12.6	EV-2103-0	1.6	---	P4	D	2500	TRIODE NO. 2.
B319	7.5	EV-2301-0	3.8	---	P4	C	3750	TRIODE NO. 1.
B319	7.5	EV-6907-0	3.8	---	P4	C	3750	TRIODE NO. 2.
B329	12.6	EV-7608-0	3.2	---	P4	D	1950	TRIODE NO. 1.
B329	12.6	EV-2103-0	3.2	---	P4	D	1950	TRIODE NO. 2.
B339	12.6	EV-7608-0	1.3	---	P4	D	875	TRIODE NO. 1.
B339	12.6	EV-2103-0	1.3	---	P4	D	875	TRIODE NO. 2.
B719	6.3	EV-7608-9	1.6	---	P4	D	2500	TRIODE NO. 1.
B719	6.3	EV-2103-9	1.6	---	P4	D	2500	TRIODE NO. 2.
BPM04	6.3	ET-1562-0	2.1	---	P4	D	2600	
C3G	6.3	JR-6345-2	1.0	---	P4	C	5750	
C3M	20.0	JR-6247-3	3.2	---	P4	C	2800	
CCA	6.3	EV-7603-0	2.6	---	P4	C	7000	TRIODE NO. 1.
CCA	6.3	EV-2103-0	2.6	---	P4	C	7000	TRIODE NO. 2.
D3A	6.3	EV-2791-8	1.0	---	P4	B	6300	
D63	6.3	HS-0508-0	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
D63	6.3	HS-0304-0	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
D77	6.3	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
D77	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
D152	6.3	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
D152	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
DA90	1.4	HR-0203-0	0.0	---	P1	D	----	DIODE. NOTE 3.
DAF91	1.4	BX-6540-0	1.0	---	P4	E	390	PENTODE SECTION. PLATE VOLTS = LOW NOTE 6.
DAF91	1.4	BX-0340-0	0.0	---	P1	D	----	DIODE SECTION. NOTES 3 & 6.
DAF92	1.4	BX-6230-0	1.0	---	P4	E	390	PENTODE SECTION. PLATE VOLTS=LOW. NOTE 6.
DAF92	1.4	BX-6430-0	0.0	---	P1	D	----	DIODE SECTION. NOTES 3 & 6. NOTE 6.
DC70	1.1	EV-1800-0	4.5	---	P4	D	2150	NOTE 6.
DC90	1.4	BX-5200-0	8.4	---	--	D	700	HOLD DOWN P1 AND PRESS P4. NOTE 6.
DCC90	3.0	BX-5600-0	7.2	---	P4	E	1260	TRIODE NO. 1. NOTE 6.
DCC90	3.0	HR-3200-0	7.2	---	P4	E	1260	TRIODE NO. 2. NOTE 6.
DCF60	1.1	FX-3120-5	0.5	---	P4	F	315	PENTODE SECTION. NOTE 6.
DCF60	1.1	EX-5600-3	4.0	---	P4	F	190	TRIODE SECTION. NOTE 6.
DD6	6.3	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
DD6	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
DDR7	6.3	ET-1572-0	5.3	---	P4	D	1650	
DF33	1.4	HS-0340-0	1.1	---	P4	E	480	CAP = G. NOTE 6.
DF61	1.4	DV-0204-1	0.0	---	P1	D	----	OK ABOVE 700 ON 6000 SCALE. MAKE NO GAS TEST. NOTES 3 & 6.
DF62	1.1	DV-4120-0	1.0	---	P4	D	1000	PLATE VOLTS = LOW. NOTE 6.
DF67	0.6	DV-4120-0	5.7	---	P4	F	65	NOTE 6.
DF91	1.4	BX-6230-0	0.0	---	P4	E	490	PLATE VOLTS = LOW. NOTE 6.
DF92	1.4	HR-6230-0	2.8	---	P4	E	650	NOTE 6.
DF96	1.4	HR-6230-0	4.4	---	P4	E	300	
DF904	1.4	BX-6230-0	1.7	---	P4	E	570	NOTE 6.
DH63	6.3	HS-0308-1	2.3	---	P4	E	500	TRIODE SECTION. CAP = G.
DH63	6.3	HS-0508-3	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
DH63	6.3	HS-0408-3	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
DH77	6.3	ET-1702-0	1.5	---	P4	E	820	TRIODE SECTION.
DH77	6.3	ET-1602-0	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
DH77	6.3	ET-1520-0	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
DK91	1.4	BX-6234-0	2.0	---	P4	E	380	GRID NO. 3. NOTE 6.
DK91	1.4	BX-4306-2	2.0	---	P4	E	380	PLATE VOLTS = LOW. OSC. SECTION. PLATE VOLTS = LOW. NOTE 6.
DL33	2.5	HS-5340-0	8.3	---	P4	E	1130	NOTE 6.
DL35	1.4	HS-5340-0	10.6	---	P4	E	1000	NOTE 6.
DL36	1.4	HS-5340-0	7.5	---	P4	C	1320	NOTE 6.
DL63	6.3	HS-0308-0	2.4	---	P4	E	1260	TRIODE SECTION CAP = G.
DL63	6.3	HS-0508-0	0.0	---	P1	C	----	DIODE NO. 1. NOTE 3.
DL63	6.3	HS-0408-0	0.0	---	P1	C	----	DIODE NO. 2. NOTE 3.
DL66	1.1	DV-4120-0	0.0	---	--	D	----	NOTES 3&6. HOLD DOWN P1, PRESS P5.

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
DL67	1.1	DV-4120-0	4.4	---	P4	F	260	NOTE 6.
DL91	1.4	BX-3240-0	4.5	---	P4	E	950	PLATE VOLTS = LOW. NOTE 6.
DL92	2.5	HR-3240-0	5.0	---	P4	E	950	PLATE VOLTS = LOW. NOTE 6.
DL93	2.5	BX-4230-0	1.0	---	---	D	1260	HOLD DOWN P1 AND PRESS 4. NOTE 6.
DL94	3.0	HR-6230-0	6.0	---	P4	E	1260	NOTE 6.
DL95	3.0	HR-3240-0	4.0	---	P4	E	1350	NOTE 6.
DL96	2.5	BX-6230-0	4.0	---	P4	E	850	PLATE VOLTS = LOW. NOTE 6.
DL98	2.5	EV-3710-0	15.0	---	P4	F	1070	NOTE 6.
DM70	1.4	EV-1800-0	VARY	---	P5	C	----	ADJUST BIAS TO VARY BAR LENGTH. DO NOT ADJUST BELOW 4.0 VOLTS.
DM71	1.4	EV-1800-0	VARY	---	P5	C	----	ADJUST BIAS TO VARY BAR LENGTH. DO NOT ADJUST BELOW 4.0 VOLTS.
DP61	6.3	ET-1562-0	1.8	---	P4	C	3150	
DX296	12.6	FZ-1672-0	8.0	---	P4	C	3100	TETRODE NO. 1. (SEE BELOW)
DX296	12.6	FZ-3872-0	8.0	---	P4	C	3100	NOTE 8# 3-, 2+. TETRODE NO. 2. (SEE BELOW)
DY30	1.1	HS-0000-0	0.0	12	P5	G	----	NOTE 8# 1-, 2+. USE ADAPTER SA-8, 1050-168.
DY51	1.4	CX-0000-0	0.0	27	P5	G	----	CAP = P. NOTES 3 & 6.
DY80	1.1	BS-0000-0	0.0	12	P5	G	----	CONNECT FIL. LEADS TO OCTAL SOCKET PINS 2 & 7. NOTES 3 & 6. SINGLE LEAD = P.
DY86	1.4	ES-0000-0	0.0	14	P5	G	----	CAP = P. NOTES 3 & 6.
DY87	1.4	ES-0000-0	0.0	14	P5	G	----	CAP = P. NOTE 3.
DY802	1.4	BS-0000-0	0	15	P5	G	----	CAP = P. NOTES 3 & 6.
E55L	6.3	EV-8139-0	0.0	---	P4	C	5700	USE HICKOK ADAPTER SA-8, 1050-168.
E80CC	12.6	EV-7608-0	2.3	---	P4	D	1700	TRIODE NO. 1.
E80CC	12.6	EV-2103-0	2.3	---	P4	D	1700	TRIODE NO. 2.
E80CF	6.3	EV-2637-1	1.2	---	P4	C	3000	PENTODE SECTION.
E80CF	6.3	EV-9108-6	4.8	---	P4	C	3000	TRIODE SECTION.
E80F	6.3	EV-9613-8	2.8	---	P4	D	1160	
E80L	6.3	EV-2783-9	2.2	---	P4	C	4200	
E81CC	12.6	EV-7608-0	1.6	---	P4	D	2500	TRIODE NO. 1.
E81CC	12.6	EV-2103-0	1.6	---	P4	D	2500	TRIODE NO. 2.
E81L	6.3	EV-2783-9	1.0	---	P4	C	4600	
E82CC	12.6	EV-7608-0	3.2	---	P4	D	1950	TRIODE NO. 1.
E82CC	12.6	EV-2103-0	3.2	---	P4	D	1950	TRIODE NO. 2.
E83CC	12.6	EV-7608-0	1.3	---	P4	D	875	TRIODE NO. 1.
E83CC	12.6	EV-2103-0	1.3	---	P4	D	875	TRIODE NO. 2.
E83F	6.3	EV-2613-9	2.1	---	P4	C	4200	
E84L	6.3	EV-2793-0	1.0	---	P4	C	5650	FOR TUBES INDICATING GAS, RETEST USING EV-1793-0.
E86C	6.3	EV-2103-0	1.2	---	P4	B	8800	
E88C	6.3	EV-9802-0	1.3	---	P4	E	7500	
E88CC	6.3	EV-7608-0	2.6	---	P4	C	7000	TRIODE NO. 1.
E88CC	6.3	EV-2103-0	2.6	---	P4	C	7000	TRIODE NO. 2.
E90CC	6.3	ET-5207-0	4.8	---	P4	D	3150	TRIODE NO. 1.
E90CC	6.3	ET-6107-0	4.8	---	P4	D	3150	TRIODE NO. 2.
E90F	6.3	ET-1562-7	0.8	---	P4	C	2150	
E91AA	6.3	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
E91AA	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
E91H	6.3	ET-1562-7	1.0	---	P4	D	630	GRID NO. 1. PLATE VOLTS = LOW.
E91H	6.3	ET-7562-1	1.8	---	P4	D	630	GRID NO. 3. PLATE VOLTS = LOW.
E91N	6.3	ET-1602-5	---	89	P5	G	----	STRIKES AT ABOUT 1.8V. NOTES 3&2.
E92CC	6.3	ET-6107-0	1.6	---	P4	C	3750	TRIODE NO. 1.
E92CC	6.3	ET-5207-0	1.6	---	P4	C	3750	TRIODE NO. 2.
E95F	6.3	ET-1562-0	1.8	---	P4	C	3150	
E99F	6.3	ET-1562-7	0.8	---	P4	C	2400	
E130L	6.3	HS-5048-0	15.0	---	P4	C	4000	CAP = P.
E180CC	12.6	EV-7608-1	1.8	---	P4	C	4100	TRIODE NO. 1.
E180CC	12.6	EV-2103-6	1.8	---	P4	C	4100	BIAS CUTOFF VOLTS = 6V. TRIODE NO. 2.
								BIAS CUTOFF VOLTS = 6V.

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
E180F	6.3	EV-2791-8	0.4	---	P4	C	7000	
E182CC	12.6	EV-7608-0	2.6	---	P4	C	7000	TRIODE NO. 1.
E182CC	12.6	EV-2103-0	2.6	---	P4	C	7000	TRIODE NO. 2.
E182F	6.3	DZ-1684-0	1.7	---	P4	B	7900	
E186F	6.3	EV-2791-8	0.4	---	P4	C	7000	
E188CC	6.3	EV-7608-0	2.6	---	P4	C	7000	TRIODE NO. 1.
E188CC	6.3	EV-2103-0	2.6	---	P4	C	7000	TRIODE NO. 2.
E235L	6.3	HS-5348-0	25.0	---	P4	C	3800	
E283CC	6.3	EV-9801-7	2.4	---	P4	E	315	TRIODE NO. 1.
E283CC	6.3	EV-2306-7	2.4	---	P4	E	315	TRIODE NO. 2.
E810F	6.3	EV-2793-8	2.6	---	P4	D	1500	
E2134	6.3	ET-1592-0	3.0	---	P4	C	4250	
EA76	6.3	BU-0203-0	0.0	10	P1	G	----	NOTE 3.
AAA91	6.3	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
AAA91	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
AAA901	6.3	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
AAA901	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
AAA901S	6.3	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
AAA901S	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
EABC80	6.3	EV-8907-0	1.3	---	P4	E	750	TRIODE SECTION.
EABC80	6.3	EV-0607-0	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
EABC80	6.3	EV-0203-0	0.0	---	P1	E	----	DIODE NO. 2. NOTE 3.
EABC80	6.3	EV-0107-0	0.0	---	P1	E	----	DIODE NO. 3. NOTE 3.
FAF42	6.3	JR-6257-4	4.4	---	P4	E	750	PENTODE SECTION.
FAF42	6.3	JR-0307-0	0.0	---	P1	C	----	DIODE SECTION. USE HICKOK ADAPTER SA-5 CODE NO. 1050-129. NOTE 3.
FAM86	6.3	EV-8769-3	19.0	---	P4	A	----	SOLID BAR (SEE BELOW)
FAM86	6.3	EV-8769-3	6.0	---	P4	A	----	SPLIT BAR (ALSO ABOVE) PLATE VOLTS = LOW. SHORT ON POSITION 'E'.
FAM86	6.3	EV-0203-0	0.0	---	P1	D	----	DIODE.
FB41	6.3	JR-0607-0	0.0	0	P1	G	----	DIODE NO. 1. (SEE BELOW) NOTE 3.
EB41	6.3	JR-0403-0	0.0	0	P1	G	----	DIODE NO. 2. (SEE BELOW) NOTE 3.
EB91	6.3	ET-0701-6	0.0	0	P1	G	----	USE HICKOK ADAPTER SA-5, 1050-129.
EB91	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
EB91	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
EBC3	6.3	HS-0308-0	2.4	---	P4	E	1260	TRIODE SECTION. CAP = G.
EBC3	6.3	HS-0508-0	2.4	---	P1	C	----	DIODE NO. 1. NOTE 3.
EBC3	6.3	HS-0408-0	2.4	---	P1	C	----	DIODE NO. 2. NOTE 3.
EBC33	6.3	HS-0308-0	2.4	---	P4	E	1260	TRIODE SECTION. CAP = G.
EBC33	6.3	HS-0508-0	2.4	---	P1	C	----	DIODE NO. 1. NOTE 3.
EBC33	6.3	HS-0408-0	2.4	---	P1	C	----	DIODE NO. 2. NOTE 3.
EBC41	6.3	JR-3207-0	1.3	---	P4	E	790	TRIODE SECTION.
EBC41	6.3	JR-0607-0	0.0	---	P1	C	----	DIODE NO. 1. NOTE 3.
EBC41	6.3	JR-0507-0	0.0	---	P1	C	----	DIODE NO. 2. NOTE 3.
EBC81	6.3	EV-2103-0	1.3	---	P4	E	790	USE HICKOK ADAPTER SA-5, 1050-129. TRIODE SECTION.
EBC81	6.3	EV-0603-0	0.0	---	P1	C	----	DIODE NO. 1. NOTE 3.
EBC81	6.3	EV-0803-0	0.0	---	P1	C	----	DIODE NO. 2. NOTE 3.
EBC90	6.3	ET-1702-0	1.5	---	P4	E	820	TRIODE SECTION.
EBC90	6.3	ET-1602-0	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
EBC90	6.3	ET-1502-0	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
EBC91	6.3	ET-1702-5	1.3	---	P4	E	800	TRIODE SECTION.
EBC91	6.3	ET-1602-5	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
EBC91	6.3	ET-1502-7	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
EBF32	6.3	HS-0368-1	4.0	---	P4	E	720	PENTODE SECTION. CAP = G.
EBF32	6.3	HS-0568-1	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
EBF32	6.3	HS-0468-1	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
EBF80	6.3	EV-2613-9	0.9	---	P4	E	1400	PENTODE SECTION.
EBF80	6.3	EV-2713-9	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
EBF80	6.3	EV-2813-9	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
EBF83	6.3	EV-2163-9	0.0	---	P1	D	----	PENTODE SECTION. NOTE 3.
EBF83	6.3	EV-0803-0	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
EBF83	6.3	EV-0703-0	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
EBF89	6.3	EV-2613-9	2.6	---	P4	D	1800	PENTODE SECTION. DIODE NO. 1. NOTE 3. DIODE NO. 2. NOTE 3.
EBF89	6.3	EV-0803-0	0.0	---	P1	C	----	
EBF89	6.3	EV-0703-0	0.0	---	P1	C	----	
EC71	6.3	DW-1805-7	0.6	---	P4	C	3450	PLATE VOLTS = LOW.
EC80	6.3	EV-1903-0	0.5	---	P4	B	7600	
EC81	6.3	EV-1803-0	5.0	---	P4	D	2500	
EC86	6.3	EV-2103-0	1.2	---	P4	B	8800	
EC88	6.3	EV-9802-0	1.3	---	P4	E	7500	
EC90	6.3	ET-6107-0	4.8	---	P4	E	1380	
EC91	6.3	ET-1705-0	0.8	---	P4	C	5300	PLATE VOLTS = LOW.
EC92	6.3	ET-6107-0	1.6	---	P4	D	2500	
EC94	6.3	ET-2105-0	1.4	---	P4	C	4200	
EC95	6.3	ET-2567-0	0.8	---	P4	C	4500	
EC97	6.3	ET-2501-6	1.4	---	P4	C	7000	
EC806S	6.3	EV-2103-0	1.2	---	P4	B	8800	
EC900	6.3	ET-1502-6	1.2	---	P4	C	8000	USE RK = 47 OHM SHUNT WITH 1000MFD CAP. TRIODE NO. 1.
EC8010	6.3	EV-1802-0	0.0	---	P4	C	6300	
ECC33	6.3	HY-4506-2	3.7	---	P4	D	1640	
ECC33	6.3	HY-1203-5	3.7	---	P4	D	1640	TRIODE NO. 2.
ECC35	6.3	HY-4506-2	0.4	---	P4	D	1000	
ECC35	6.3	HY-1203-5	0.4	---	P4	D	1000	TRIODE NO. 2.
ECC40	6.3	JR-6507-0	2.6	---	P4	D	1825	TRIODE NO. 1.
ECC40	6.3	JR-3204-0	2.6	---	P4	D	1825	TRIODE NO. 2. USE HICKOK ADAPTER SA-5 CODE NO. 1050-129.
ECC81	12.6	EV-7608-0	1.6	---	P4	D	2500	TRIODE NO. 1.
ECC81	12.6	EV-2103-0	1.6	---	P4	D	2500	TRIODE NO. 2.
ECC82	12.6	EV-7608-0	3.2	---	P4	D	1950	TRIODE NO. 1.
ECC82	12.6	EV-2103-0	3.2	---	P4	D	1950	TRIODE NO. 2.
ECC83	12.6	EV-7608-0	1.3	---	P4	D	875	TRIODE NO. 1.
ECC83	12.6	EV-2103-0	1.3	---	P4	D	875	TRIODE NO. 2.
ECC84	6.3	EV-6907-0	3.8	---	P4	C	3750	TRIODE NO. 1.
ECC84	6.3	EV-2301-0	3.8	---	P4	C	3750	TRIODE NO. 2.
ECC85	6.3	EV-7608-9	1.6	---	P4	D	2500	TRIODE NO. 1.
ECC85	6.3	EV-2103-9	1.6	---	P4	D	2500	TRIODE NO. 2.
ECC86	6.3	EV-7608-0	1.8	---	P1	E	----	TRIODE NO. 1. (SEE BELOW) NOTE 3. TRIODE NO. 2. (SEE BELOW) NOTE 3. NO GAS TEST. OK ABOVE DIODES OK.
ECC86	6.3	EV-2103-0	1.8	---	P1	E	----	
ECC88	6.3	EV-7608-0	3.0	---	P4	C	7750	TRIODE NO. 1.
ECC88	6.3	EV-2103-0	3.0	---	P4	C	7750	TRIODE NO. 2.
ECC89	6.3	EV-6908-0	2.4	---	P4	C	6000	TRIODE NO. 1.
ECC89	6.3	EV-2301-0	2.4	---	P4	C	6000	TRIODE NO. 2.
ECC91	6.3	ET-5207-0	1.8	---	P4	C	3340	TRIODE NO. 1.
ECC91	6.3	ET-6107-0	1.8	---	P4	C	3340	TRIODE NO. 2.
ECC180	6.3	EV-7608-9	2.0	---	P4	C	4000	TRIODE NO. 1.
ECC180	6.3	EV-2103-9	2.0	---	P4	C	4000	TRIODE NO. 2.
ECC186	12.6	EV-7608-0	3.2	---	P4	D	1950	TRIODE NO. 1.
ECC186	12.6	EV-2103-0	3.2	---	P4	D	1950	TRIODE NO. 2.
ECC189	6.3	EV-7608-0	2.4	---	P4	C	7500	TRIODE NO. 1.
ECC189	6.3	EV-2103-0	2.4	---	P4	C	7500	TRIODE NO. 2.
ECC230	6.3	HY-0506-4	0.0	83	P3	G	----	TRIODE NO. 1. MAKE NO GAS TEST. NOTE 3.
ECC230	6.3	HY-0203-1	0.0	83	P3	G	----	TRIODE NO. 2. MAKE NO GAS TEST. NOTE 3.
ECC801	12.6	EV-7608-0	1.6	---	P4	D	2500	TRIODE NO. 1.
ECC801	12.6	EV-2103-0	1.6	---	P4	D	2500	TRIODE NO. 2.
ECC801S	12.6	EV-7608-0	1.6	---	P4	D	2500	TRIODE NO. 1.
ECC801S	12.6	EV-2103-0	1.6	---	P4	D	2500	TRIODE NO. 2.
ECC802	12.6	EV-7608-0	3.2	---	P4	D	1950	TRIODE NO. 1.
ECC802	12.6	EV-2103-0	3.2	---	P4	D	1950	TRIODE NO. 2.
ECC802S	12.6	EV-7608-0	3.2	---	P4	D	1950	TRIODE NO. 1.
ECC802S	12.6	EV-2103-0	3.2	---	P4	D	1950	TRIODE NO. 2.
ECC803	12.6	EV-7608-0	1.3	---	P4	D	875	TRIODE NO. 1.

SEE NEXT PAGE FOR CONTINUATION

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
ECC803	12.6	EV-2103-0	1.3	---	P4	D	875	TRIODE NO. 2.
ECC803S	12.6	EV-7608-0	1.3	---	P4	D	875	TRIODE NO. 1.
ECC803S	12.6	EV-2103-0	1.3	---	P4	D	875	TRIODE NO. 2.
ECC960	6.3	ET-5207-0	4.8	---	P4	D	3150	TRIODE NO. 1.
ECC960	6.3	ET-6107-0	4.8	---	P4	D	3150	TRIODE NO. 2.
ECC962	6.3	ET-6107-0	1.6	---	P4	C	3750	TRIODE NO. 1.
ECC962	6.3	ET-5207-0	1.6	---	P4	C	3750	TRIODE NO. 2.
ECC2000	6.3	FW-8709-1	2.8	---	P4	B	9500	TRIODE NO. 1. USE ADAPTER SA-11. MODEL 5398# USE SA-11 & CA-4. NOTE 7.
ECC2000	6.3	FW-3W02-1	2.8	---	P4	B	9500	TRIODE NO. 2.
ECF80	6.3	EV-2637-1	1.2	---	P4	C	3000	PENTODE SECTION.
ECF80	6.3	EV-9108-6	4.8	---	P4	C	3000	TRIODE SECTION.
ECF82	6.3	EV-2637-0	0.8	---	P4	D	2400	PENTODE SECTION.
ECF82	6.3	EV-9108-0	1.0	---	P4	C	5350	TRIODE SECTION.
ECF83	6.3	EV-9678-0	1.0	---	P4	E	900	PENTODE SECT. PLATE VOLTS = LOW.
ECF83	6.3	EV-2301-0	14.0	---	P4	E	1000	TRIODE SECT. PLATE VOLTS = NORMAL.
ECF86	6.3	EV-2893-0	0.8	---	P4	C	5000	PENTODE SECTION.
ECF86	6.3	EV-6703-0	8.0	---	P4	C	4000	TRIODE SECTION.
ECF200	6.3	FW-37H2-4	1.5	---	P4	C	4700	PENTODE SECTION. USE ADAPTER SA-11 MODEL 5398# USE SA-11 & CA-4. NOTE 7.
ECF200	6.3	FW-W901-0	1.2	---	P4	D	3000	TRIODE SECTION.
ECF201	6.3	FW-3782-4	1.5	---	P4	C	4400	PENTODE SECTION. USE ADAPTER SA-11 MODEL 5398# USE SA-11 & CA-4. NOTE 7.
ECF201	6.3	FW-W901-0	4.5	---	P4	C	3150	TRIODE SECTION.
ECF801	6.3	EV-2671-0	1.0	---	P4	C	4900	PENTODE SECTION.
ECF801	6.3	EV-9803-0	4.2	---	P4	C	6100	TRIODE SECTION.
ECF802	6.3	EV-2637-0	1.6	---	P4	D	2400	PENTODE SECTION.
ECF802	6.3	EV-9108-0	1.1	---	P4	D	2200	TRIODE SECTION.
ECF804	6.3	EV-2637-0	1.4	---	P4	C	4700	PENTODE SECTION.
ECF804	6.3	EV-9108-0	1.4	---	P4	C	4700	TRIODE SECTION.
ECF805	6.3	EV-7328-0	1.0	---	P4	C	4600	PENTODE SECTION.
ECF805	6.3	EV-9108-0	6.0	---	P4	D	3000	TRIODE SECTION.
ECH35	6.3	HS-0348-5	1.0	---	P4	E	1000	HEXODE SECTION. CAP = G.
ECH35	6.3	HS-5608-4	1.2	---	P4	D	2000	TRIODE SECTION.
ECH42	6.3	JR-6257-4	3.3	---	P4	E	800	HEPTODE SECTION (SEE BELOW)
ECH42	6.3	JR-4307-6	4.7	---	P4	E	950	TRIODE SECTION (SEE BELOW)
ECH81	6.3	EV-2613-7	3.5	---	P4	D	950	USE HICKOK ADAPTER SA-5, 1050-129. HEPTODE SECTION.
ECH81	6.3	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
ECH83	6.3	EV-7163-2	3.0	---	P1	E	300	HEPTODE SECTION. MAKE NO GAS TEST.
ECH83	6.3	EV-9803-0	0.8	---	P1	E	500	TRIODE SECTION. MAKE NO GAS TEST.
ECH84	6.3	EV-2673-1	0.4	---	---	E	750	HEPTODE SECTION. HOLD DOWN P1 AND PRESS P4.
ECH84	6.3	EV-9803-0	0.2	---	P4	D	2025	TRIODE SECTION. PLATE VOLTS = LOW.
ECH200	6.3	FW-3741-2	1.0	---	---	E	700	HEPTODE SECTION. HOLD DOWN P1 & PRESS P4. USE ADAPTER SA-11. MODEL 5398# USE SA-11 & CA-4. NOTE 7.
ECH200	6.3	FW-8W09-0	2.4	---	P4	C	3150	TRIODE SECTION.
ECL80	6.3	EV-9683-7	4.0	---	P4	D	2100	PENTODE SECTION.
ECL80	6.3	EV-2103-0	5.0	---	P4	D	850	TRIODE SECTION.
ECL82	6.3	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
ECL82	6.3	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
ECL83	6.3	EV-9687-0	4.0	---	P4	D	2650	PENTODE SECTION.
ECL83	6.3	EV-2103-0	4.0	---	P4	E	200	TRIODE SECTION.
ECL84	6.3	EV-8697-0	0.6	---	P4	C	6900	PENTODE SECTION.
ECL84	6.3	EV-1203-0	1.0	---	P4	D	2800	TRIODE SECTION.
ECL85	6.3	EV-9678-0	8.0	---	P4	C	4100	PENTODE SECTION.
ECL85	6.3	EV-2103-0	2.0	---	P4	D	2800	TRIODE SECTION.
ECL86	6.3	EV-8637-0	1.0	---	P4	C	5500	PENTODE SECTION.
ECL86	6.3	EV-1902-0	0.7	---	P4	E	550	TRIODE SECTION.
ECLL800	6.3	EV-2397-0	2.0	---	P4	C	3400	PENTODE NO. 1. NOTE 8# 6-, 7+.
ECLL800	6.3	EV-6897-0	2.0	---	P4	C	3400	PENTODE NO. 2. NOTE 8# 2-, 7+.

SEE NEXT PAGE FOR CONTINUATION

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
ECLL800	6.3	EV-2107-0	2.0	---	P4	F	80	TRIODE SECTION. CAP = G. USE HICKOK ADAPTER SA-8 CODE NO. 1050-168. NOTE 3.
ED500	6.3	EV-0801-0	0.0	---	P1	E	----	
EF22	6.3	JR-6237-4	4.8	---	P4	E	1070	USE HICKOK ADAPTER SA-5, 1050-129. USE HICKOK ADAPTER SA-5, 1050-129.
EF40	6.3	JR-5267-4	1.0	---	P4	E	1000	
EF41	6.3	JR-6257-0	3.0	---	P4	E	950	
EF42	6.3	JR-6257-4	0.5	---	P4	C	4600	USE HICKOK ADAPTER SA-5, 1050-129.
EF80	6.3	EV-2781-9	0.5	---	P4	C	4500	
EF85	6.3	EV-2781-9	2.0	---	P4	D	2500	USE HICKOK ADAPTER SA-5, 1050-129.
EF86	6.3	EV-9613-8	1.5	---	P4	D	1150	
EF89	6.3	EV-2783-9	2.2	---	P4	D	1900	MAKE NO GAS TEST. NOTE 3. UK ABOVE 450 ON 3000 SCALE.
EF91	6.3	ET-1572-6	1.0	---	P4	C	3800	
EF92	6.3	ET-1572-6	0.7	---	P4	D	1400	
EF93	6.3	ET-1567-2	1.0	---	P4	D	2070	
EF94	6.3	ET-1567-2	1.0	---	P4	C	2500	
EF95	6.3	ET-1562-0	1.8	---	P4	C	3150	
EF96	6.3	ET-1562-0	1.7	---	P4	D	2500	
EF97	6.3	ET-7652-1	0.0	---	P1	E	----	
EF98	6.3	ET-1652-7	0.0	---	P1	G	----	
EF183	6.3	EV-2781-9	2.8	---	P4	C	3200	
EF184	6.3	EV-2781-9	1.2	---	P4	C	4900	
EF731	6.3	DW-1574-0	1.6	---	P4	D	1900	PENTODE NO. 1. USE ADAPTER SA-11. MODEL 539H# USE SA-11 & CA-4. NOTE 7.
EF732	6.3	DW-1574-0	2.0	---	P4	C	2500	
EF800	6.3	EV-2781-9	0.5	---	P4	C	4500	
EF804	6.3	EV-9783-1	1.5	---	P4	D	1260	
EF805S	6.3	EV-2781-9	2.0	---	P4	D	2500	
EF806S	6.3	EV-9613-8	1.5	---	P4	D	1150	PENTODE NO. 2. GRID NO. 1. PLATE VOLTS = LOW.
EF861	6.3	EV-2791-8	0.4	---	P4	C	7000	
EFL200	6.3	FW-8W97-0	2.2	---	P4	C	6300	PENTODE NO. 1. USE ADAPTER SA-11. MODEL 539H# USE SA-11 & CA-4. NOTE 7.
EFL200	6.3	FW-1432-0	1.0	---	P4	C	5300	
EH90	6.3	ET-1562-7	0.0	---	P4	D	500	PENTODE NO. 2. GRID NO. 1. PLATE VOLTS = LOW.
EH90	6.3	ET-7562-1	0.0	---	P4	D	790	
EK90	6.3	ET-7562-1	0.0	---	--	D	940	GRID NO. 3. PLATE VOLTS = LOW. AMPL. SECTION. HOLD DOWN P1 AND PRESS P4.
EK90	6.3	ET-1602-7	2.0	---	P4	C	4500	
EL34	6.3	HS-5348-1	5.5	---	P4	C	3800	OSC. SECTION. CAP = P.
EL36	6.3	HS-5048-0	11.0	---	P4	C	5000	
EL37	6.3	HS-5348-1	3.0	---	P4	C	3800	CAP = P. USE HICKOK ADAPTER SA-5, 1050-129. USE HICKOK ADAPTER SA-5, 1050-129.
EL38	6.3	HS-5048-1	0.0	---	P4	B	8500	
EL41	6.3	JR-6257-0	1.0	---	P4	C	6300	
EL42	6.3	JR-6257-0	2.8	---	P4	D	2000	
EL80	6.3	EV-2713-0	1.0	---	P4	C	6300	
EL81	6.3	EV-2073-1	16.0	---	P4	D	2900	
EL83	6.3	EV-2713-6	0.5	---	P4	C	6300	CAP = P.
EL84	6.3	EV-2793-0	1.0	---	P4	C	5650	
EL85	6.3	EV-2793-0	2.8	---	P4	D	2000	TUBES INDICATING GAS# RETEST USING EV-1793-0.
EL86	6.3	EV-2793-0	4.0	---	P4	C	4500	
EL90	6.3	ET-1562-0	2.1	---	P4	D	2600	CAP = P.
EL91	6.3	ET-1572-0	5.2	---	P4	D	1650	
EL95	6.3	ET-1562-0	1.0	---	P4	D	2900	
FL180	12.6	EV-2781-3	1.0	---	P4	C	5700	
EL360	6.3	HS-5048-0	11.0	---	P4	C	5000	
EL500	6.3	EV-2078-0	16.0	---	P4	C	5000	
EL503	6.3	EV-3986-0	5.8	---	P4	C	7300	
EL505	6.3	EV-1039-2	27.0	---	P4	D	2600	
EL508	6.3	EV-1637-0	12.0	---	P4	D	2600	
EL803	6.3	EV-2713-6	0.5	---	P4	C	6300	
EL821	6.3	EV-2783-9	0.0	---	P4	C	6500	CAP = P. USE HICKOK ADAPTER SA-R, CODE NO. 1050-168. USE HICKOK ADAPTER SA-R, 1050-168. CAP = P. USE HICKOK ADAPTER SA-R, CODE NO. 1050-168. USE HICKOK ADAPTER SA-R, 1050-168.
EL822	6.3	EV-2783-9	0.0	---	P4	C	6500	

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
ELL80	6.3	EV-2317-0	2.0	---	P4	D	3300	PENTODE NO. 1.
ELL80	6.3	EV-6897-0	2.0	---	P4	D	3300	PENTODE NO. 2.
EM34	6.3	HS-4508-0	VARY	---	P5	A	----	CONNECT A 1 MEGOHM RESISTOR FROM PLATE JACK TO PIN 3 OF BIG 7 PIN SOCKET & ANOTHER 1 MEG. TO PIN 6. EYE 1 CLOSES AT BIAS OF ABOUT 5 & EYE 2 CLOSES AT BIAS OF ABOUT 20.
EM80	6.3	EV-1902-0	VARY	100	P4	G	----	CONNECT A 1 MEGOHM RESISTOR FROM PLATE JACK TO OCTAL SOCKET PIN 7. VARY BIAS TO VARY BEAM ANGLE.
EM81	6.3	EV-1902-0	VARY	100	P4	G	----	CONNECT A 1 MEGOHM RESISTOR FROM PLATE JACK TO OCTAL SOCKET PIN 7. VARY BIAS TO VARY BEAM ANGLE.
EM84	6.3	EV-1603-0	11.0	---	P4	G	----	SOLID BAR (SEE BELOW)
EM84	6.3	EV-1603-0	0.0	---	P4	G	----	SPLIT BAR (SEE BELOW)
EM87	6.3	EV-1603-0	6.0	---	P4	G	----	CONNECT JUMPER BETWEEN PINS 7 & 9 OF NOVAL SOCKET. CONNECT 470K, 1/2 W, 10% RESISTOR BETWEEN JUMPER & PIN 6 OF SAME SOCKET.
EM87	6.3	EV-1603-0	0.0	---	P4	G	----	SOLID BAR (SEE BELOW)
EM801	6.3	EV-9203-1	10.0	---	P4	A	----	SPLIT BAR (SEE BELOW)
EM801	6.3	EV-9203-1	4.0	---	P4	A	----	CONNECT JUMPER BETWEEN PINS 7 & 9 OF NOVAL SOCKET. CONNECT 100K, 1/2 W, 10% RESISTOR BETWEEN JUMPER & PIN 6 OF SAME SOCKET.
EM801	6.3	EV-7203-1	10.0	---	P4	A	----	SOLID BAR (SEE BELOW)
EM801	6.3	EV-7203-1	4.0	---	P4	A	----	SPLIT BAR (SEE BELOW)
EM803	6.3	EV-3601-0	9.0	---	P4	A	----	CONNECT 390K, 1/2 W, 10% RESISTOR BETWEEN PINS 2 & 8 OF LOCTAL TEST SOCKET.
EM803	6.3	EV-3601-0	0.0	---	P4	A	----	SOLID BAR (SEE BELOW)
EM803	6.3	EV-2601-0	3.0	---	P4	A	----	SPLIT BAR (SEE BELOW)
EM803	6.3	EV-2601-0	0.0	---	P4	A	----	CONNECT 390K, 1/2 W, 10% RESISTOR BETWEEN PINS 2 & 6 OF LOCTAL TEST SOCKET.
EN91	6.3	ET-1602-5	---	89	P5	G	----	LARGE SOLID BAR (SEE BELOW)
EQ80	6.3	EV-7163-9	6.0	---	P4	E	630	SPLIT BAR (SEE BELOW)
EY80	6.3	EV-0903-0	0.0	91	P3	G	----	CONNECT 470K, 1/2 W, 10% RESISTOR BETWEEN PINS 6 & 9 OF NOVAL TEST SOCKET.
EY81	6.3	EV-0009-0	0.0	90	P3	G	----	SMALL SOLID BAR (SEE BELOW)
EY82	6.3	EV-0903-0	0.0	90	P3	G	----	NO BAR (SEE BELOW)
EY84	6.3	EV-0003-0	0.0	88	P3	G	----	CONNECT 1 MEGOHM, 1/2 W, 10% RESISTOR BETWEEN PINS 6 & 7 OF LOCTAL TEST SOCKET.
EY86	6.3	ES-0000-0	0.0	14	P5	G	----	STRIKES AT ABOUT 1.8 V. NOTES 3&2.
EY87	6.3	ES-0000-0	0.0	14	P5	G	----	NOTE 3.
EY88	6.3	EV-0009-0	0.0	89	P3	G	----	CAP = P. REVERSE METER. NOTE 3.
EY91	6.3	ET-0102-0	0.0	85	P3	G	----	NOTE 3.
EY500	6.3	EV-0007-0	0.0	90	P3	G	----	CAP = P. NOTE 3.
EZ35	6.3	HS-0508-1	0.0	85	P3	G	----	CAP = P. REVERSE METER. NOTE 3.
EZ35	6.3	HS-0308-1	0.0	85	P3	G	----	NOTE 3.
EZ40	6.3	JR-0207-0	0.0	80	P3	G	----	CAP = P. NOTE 3.
EZ40	6.3	JR-0607-0	0.0	80	P3	G	----	CAP = P. REVERSE METER. NOTE 3.
EZ80	6.3	EV-0703-1	0.0	80	P3	G	----	NOTE 3.
EZ80	6.3	EV-0103-7	0.0	80	P3	G	----	CAP = P. REVERSE METER USE HICKOK ADAPTER SA-8, 1050-16R. NOTE 3.
EZ81	6.3	EV-0703-0	0.0	87	P3	G	----	PLATE NO. 1. NOTE 3.
EZ81	6.3	EV-0103-0	0.0	87	P3	G	----	PLATE NO. 2. NOTE 3.
EZ90	6.3	ET-0607-1	0.0	85	P3	G	----	PLATE NO. 1. NOTE 3.

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TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
EZ90	6.3	ET-0107-6	0.0	85	P3	G	----	PLATE NO. 2. NOTE 3.
GY501	3.0	JR-0000-0	0.0	30	P5	G	----	CAP = P. USE HICKOK ADAPTER SA-R, 1050-168. NOTES 3 & 6.
GZ30	5.0	JS-0600-0	0.0	91	P3	G	----	PLATE NO. 1. NOTES 3 & 6.
GZ30	5.0	JS-0400-0	0.0	91	P3	G	----	PLATE NO. 2. NOTES 3 & 6.
GZ32	5.0	JS-0600-0	0.0	89	P3	G	----	PLATE NO. 1. NOTE 3.
GZ32	5.0	JS-0400-0	0.0	89	P3	G	----	PLATE NO. 2. NOTE 3.
GZ33	5.0	JS-0600-0	0.0	88	P3	G	----	PLATE NO. 1. NOTE 3.
GZ33	5.0	JS-0400-0	0.0	88	P3	G	----	PLATE NO. 2. NOTE 3.
GZ34	5.0	JS-0600-0	0.0	88	P3	G	----	PLATE NO. 1. NOTE 3.
GZ34	5.0	JS-0400-0	0.0	88	P3	G	----	PLATE NO. 2. NOTE 3.
H63	6.3	HS-0408-1	0.9	---	P4	D	950	CAP = G.
H-1112	2.0	DR-4028-0	1.0	---	---	C	4100	CAP=P. HOLD DOWN P1 & PRESS P4. USE ADAPTER SA-3, 1050-127 OR CA-4, 1050-135.
H-1208	6.3	DR-4208-0	0.8	---	P4	C	7800	PLATE VOLTS = LOW.
HAA91	12.6	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
HAA91	12.6	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
HABC80	20.0	EV-8907-0	1.3	---	P4	E	750	TRIODE SECTION.
HABC80	20.0	EV-0607-0	0.0	-	P1	D	----	DIODE NO. 1. NOTE 3.
HABC80	20.0	EV-0203-0	0.0	-	P1	E	----	DIODE NO. 2. NOTE 3.
HABC80	20.0	EV-0107-0	0.0	-	P1	E	----	DIODE NO. 3. NOTE 3.
HBC90	12.6	ET-1702-0	1.5	---	P4	E	820	TRIODE SECTION.
HBC90	12.6	ET-1602-0	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
HBC90	12.6	ET-1502-0	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
HBC91	12.6	ET-1702-5	1.3	---	P4	E	800	TRIODE SECTION.
HBC91	12.6	ET-1602-5	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
HBC91	12.6	ET-1502-7	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
HCC85	20.0	EV-7608-0	1.5	---	P4	C	3600	TRIODE NO. 1.
HCC85	20.0	EV-2103-0	1.5	---	P4	C	3600	TRIODE NO. 2.
HCH81	12.6	EV-2613-7	3.5	---	P4	D	950	HEPTODE SECTION.
HCH81	12.6	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
HCL82	35.0	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION
HCL82	35.0	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
HD14	1.4	HS-0300-0	0.8	---	P4	F	190	TRIODE SECTION. CAP = G. NOTE 6.
HD14	1.4	HS-0500-0	0.0	---	P1	D	----	DIODE SECTION. NOTES 3 & 6.
HD30	2.5	EV-3710-0	15.0	---	P4	E	1070	NOTE 6.
HD93	1.1	BS-0000-0	0.0	12	P5	G	----	CAP = P. NOTES 3 & 6.
HD94	6.3	HS-5048-0	12.0	---	P4	C	3500	CAP = P.
HD96	25.0	HS-5048-0	12.0	---	P4	C	3500	CAP = P.
HF61	6.3	JR-6257-0	3.0	---	P4	E	950	USE HICKOK ADAPTER SA-5, 1050-129.
HF62	6.3	JR-6257-4	0.5	---	P4	C	4600	USE HICKOK ADAPTER SA-5, 1050-129.
HF93	12.6	ET-1567-2	1.0	---	P4	D	2070	
HF94	12.6	ET-1567-2	1.0	---	P4	C	2500	
HK90	12.6	ET-7562-1	0.0	---	---	D	940	AMPL. SECTION. HOLD DOWN P1 AND PRESS P4.
HK90	12.6	ET-1602-7	2.0	---	P4	C	4500	OSC. SECTION.
HL90	20.0	ET-1562-0	2.1	---	P4	D	2600	
HL92	50.0	ET-2761-0	1.5	---	---	C	5650	
HL94	35.0	KT-2761-0	4.0	---	P4	C	4500	HOLD DOWN P1 AND PRESS P4. BEFORE PLACING TUBE IN SOCKET, COUNT COUNTERCLOCKWISE AND JUMPER A 33 OHM, 2 WATT RESISTOR BETWEEN PINS 4 & 9 OF 9 PIN MIN. SOCKET.
HM04	6.3	ET-7562-1	0.0	---	---	D	940	AMPL. SECTION. HOLD DOWN P1 AND PRESS P4.
HM04	6.3	ET-1602-7	2.0	---	P4	C	4500	OSC. SECTION.
HP6	6.3	ET-1572-6	1.0	---	P4	C	3800	
HY90	BLST	ET-0167-0	---	---	---	-	----	SHORT ON 1-2-3-5 AND AC RECT. SECTION.
HZ90	12.6	ET-0607-1	0.0	85	P3	G	----	PLATE NO. 1. NOTE 3.
HZ90	12.6	ET-0107-6	0.0	85	P3	G	----	PLATE NO. 2. NOTE 3.
KT61	6.3	HS-5348-0	0.0	---	P4	C	5250	
KT66	6.3	HS-5348-1	3.0	---	P4	C	3150	
KT88	6.3	HS-5348-1	1.4	---	P4	C	6250	

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
KTZ63	6.3	HS-0348-5	4.0	---	P4	E	770	CAP = G.
L63	6.3	HS-5308-0	3.7	---	P4	D	1640	
L77	6.3	ET-6107-0	4.8	---	P4	E	1380	
LC900	2.5	ET-1507-6	1.2	---	P4	C	8000	
LCF80	6.3	EV-2637-1	1.2	---	P4	C	3000	PENTODE SECTION.
LCF80	6.3	EV-9108-6	4.8	---	P4	C	3000	TRIODE SECTION.
LCF200	6.3	FW-3782-4	1.5	---	P4	C	4700	PENTODE SECTION. USE ADAPTER SA-11 MODEL 5398# USE SA-11 & CA-4. NOTE 7.
LCF200	6.3	FW-W901-0	1.2	---	P4	D	3000	TRIODE SECTION.
LCF201	6.3	FW-3782-4	1.5	---	P4	C	4400	PENTODE SECTION. USE ADAPTER SA-11 MODEL 5398# USE SA-11 & CA-4. NOTE 7.
LCF201	6.3	FW-W901-0	4.5	---	P4	C	3150	TRIODE SECTION.
LCF801	5.0	EV-2671-0	1.0	---	P4	C	4900	PENTODE SECTION.
LCF801	5.0	EV-9803-0	4.2	---	P4	C	6100	TRIODE SECTION.
LCF802	6.3	EV-2637-0	1.6	---	P4	D	2400	PENTODE SECTION.
LCF802	6.3	EV-9108-0	1.1	---	P4	D	2200	TRIODE SECTION.
LCH200	5.0	FW-3741-2	1.0	---	---	E	700	HEPTODE SECTION. HOLD DOWN P1 & PRESS P4. USE ADAPTER SA-11. MODEL 5398# USE SA-11 & CA-4. NOTE 7.
LCH200	5.0	FW-8W09-0	2.4	---	P4	C	3150	TRIODE SECTION.
LCL80	4.3	EV-2103-0	5.0	---	P4	D	850	TRIODE SECTION.
LCL80	4.3	EV-9683-7	4.0	---	P4	D	2100	PENTODE SECTION.
LCL82	10.0	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
LCL82	10.0	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
LCL84	10.0	EV-8697-0	0.6	---	P4	C	6900	PENTODE SECTION.
LCL84	10.0	EV-1203-0	1.0	---	P4	D	2800	TRIODE SECTION.
LCL85	10.0	EV-2103-0	2.0	---	P4	D	2800	TRIODE SECTION.
LCL85	10.0	EV-9678-0	8.0	---	P4	C	4100	PENTODE SECTION.
LFL200	10.0	FW-8W97-0	2.2	---	P4	C	6300	PENTODE NO. 1. USE ADAPTER SA-11. MODEL 5398# USE SA-11 & CA-4. NOTE 7.
LFL200	10.0	FW-1432-0	1.0	---	P4	C	5300	PENTODE NO. 2.
LL86	10.0	EV-2793-0	4.0	---	P4	C	4500	
LL500	20.0	EV-2078-0	16.0	---	P4	C	5000	CAP = P. USE HICKOK ADAPTER SA-8 CODE NO. 1050-168.
LL505	25.0	EV-1039-2	27.0	---	P4	D	2600	CAP = P. USE HICKOK ADAPTER SA-8 CODE NO. 1050-168.
LL521	20.0	EV-8039-2	7.0	---	P4	C	5700	CAP = P. PLATE VOLTS = LOW. USE HICKOK ADAPTER SA-8, 1050-168.
LN119	50.0	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
LN119	50.0	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
LN152	6.3	EV-9683-7	4.0	---	P4	D	2100	PENTODE SECTION.
LN152	6.3	EV-2103-0	5.0	---	P4	D	850	TRIODE SECTION.
LN309	12.6	EV-9687-0	4.0	---	P4	D	2650	PENTODE SECTION.
LN309	12.6	EV-2103-0	4.0	---	P4	E	200	TRIODE SECTION.
LY88	20.0	EV-0009-0	0.0	89	P3	G	----	CAP = P. REVERSE METER. NOTE 3.
LY500	25.0	EV-0007-0	0.0	90	P3	G	----	CAP = P. REVERSE METER. USE HICKOK ADAPTER SA-8, 1050-168. NOTE 3.
M8079	6.3	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.
M8079	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3.
M8081	6.3	ET-5207-0	1.8	---	P4	C	3340	TRIODE NO. 1.
M8081	6.3	ET-6107-0	1.8	---	P4	C	3340	TRIODE NO. 2.
M8098	OFF	AP-0102-0	---	---	P4	H	85V	STARTS AT ABOUT 125V. REGULATION = 3 VOLTS FROM 1 TO 10 MA.
M8100	6.3	ET-1562-0	1.8	---	P4	C	3150	
M8136	12.6	EV-7608-0	3.2	---	P4	D	1950	TRIODE NO. 1.
M8136	12.6	EV-2103-0	3.2	---	P4	D	1950	TRIODE NO. 2.
M8137	12.6	EV-7608-0	1.3	---	P4	D	875	TRIODE NO. 1.
M8137	12.6	EV-2103-0	1.3	---	P4	D	875	TRIODE NO. 2.
M8162	12.6	EV-7608-0	1.6	---	P4	D	2500	TRIODE NO. 1.
M8162	12.6	EV-2103-0	1.6	---	P4	D	2500	TRIODE NO. 2.
M8212	6.3	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3.

SEE NEXT PAGE FOR CONTINUATION

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
M8212	6.3	ET-0205-6	0.0	0	P1	G	----	DIODE NO. 2. NOTE 3. PLATE VOLTS = LOW. NOTE 6. NOTE 6. NOTE 6. NOTE 6. USE HICKOK ADAPTER SA-8, 1050-168.
N17	2.5	HR-3240-0	5.0	---	P4	E	950	
N18	3.0	HR-3240-0	4.0	---	P4	E	1350	
N19	3.0	HR-6230-0	6.0	---	P4	E	1260	
N22LL	20.0	EV-7963-2	20.0	---	P4	C	4400	
N30EL	6.3	B3-5032-4	23	---	P4	C	5200	CAP=P. NOTE 7.
N77	6.3	ET-1572-0	5.3	---	P4	D	1650	
N78	6.3	ET-1572-0	1.0	---	P4	C	5000	
N119	50.0	EV-2793-0	4.0	---	P4	C	4500	
N144	6.3	ET-1572-0	5.3	---	P4	D	1650	
N151	6.3	JR-6257-0	2.8	---	P4	D	2000	USE HICKOK ADAPTER SA-5, 1050-129. CAP = P.
N152	20.0	EV-2083-9	13.0	---	P4	C	3800	
N153	12.6	EV-2713-6	1.0	---	P4	C	6300	
N154	20.0	EV-2793-0	6.0	---	P4	D	3500	
N309	12.6	EV-2713-6	1.0	---	P4	C	6300	DISREGARD SHORTS TEST AFTER GM TEST IS COMPLETED. ALLOW 60 SEC. FOR WARM-UP & 5 SEC. FOR GM READINGS. KEEP LINE ADJUSTED AT 80 V.
N329	20.0	EV-2793-0	6.0	---	P4	D	3500	
N359	20.0	EV-2083-9	13.0	---	P4	C	3800	DISREGARD SHORTS TEST AFTER GM TEST IS COMPLETED. ALLOW 60 SEC. FOR WARM-UP & 5 SEC. FOR GM READINGS. KEEP LINE ADJUSTED AT 80 V. CAP = P.
N709	6.3	EV-2793-0	1.0	---	P4	C	5650	
N727	6.3	ET-1562-0	2.1	---	P4	D	2600	TUBES INDICATING GAS# RETEST USING EV-1793-0.
OM4	6.3	HS-0308-0	2.4	---	P4	E	1260	
OM4	6.3	HS-0508-0	2.4	---	P1	C	----	TRIODE SECTION CAP = G.
OM4	6.3	HS-0408-0	2.4	---	P1	C	----	DIODE NO. 1. NOTE 3.
PABC80	10.0	EV-8907-6	1.3	---	P4	E	750	DIODE NO. 2. NOTE 3.
PABC80	10.0	EV-0607-1	0.0	---	P1	D	----	TRIODE SECTION.
PABC80	10.0	EV-0203-7	0.0	---	P1	E	----	DIODE NO. 1. NOTE 3.
PABC80	10.0	EV-0107-8	0.0	---	P1	E	----	DIODE NO. 2. NOTE 3.
PC86	4.3	EV-2103-0	1.2	---	P4	B	8800	DIODE NO. 3. NOTE 3.
PC88	4.3	EV-9802-0	1.3	---	P4	E	7500	
PC95	3.0	ET-2567-0	0.8	---	P4	C	6600	
PC97	4.3	ET-2501-6	1.4	---	P4	C	7000	
PC900	4.3	ET-1507-6	1.2	---	P4	C	8000	
PCC84	7.5	EV-6907-0	3.8	---	P4	C	3750	TRIODE NO. 1.
PCC84	7.5	EV-2301-0	3.8	---	P4	C	3750	TRIODE NO. 2.
PCC85	10.0	EV-7608-9	1.6	---	P4	D	2500	TRIODE NO. 1.
PCC85	10.0	EV-2103-9	1.6	---	P4	D	2500	TRIODE NO. 2.
PCC88	7.5	EV-7608-0	3.0	---	P4	C	7750	TRIODE NO. 1.
PCC88	7.5	EV-2103-0	3.0	---	P4	C	7750	TRIODE NO. 2.
PCC89	7.5	EV-6908-0	2.4	---	P4	C	6000	TRIODE NO. 1.
PCC89	7.5	EV-2301-0	2.4	---	P4	C	6000	TRIODE NO. 2.
PCC189	7.5	EV-7608-0	2.4	---	P4	C	7500	TRIODE NO. 1.
PCC189	7.5	EV-2103-0	2.4	---	P4	C	7500	TRIODE NO. 2.
PCF80	10.0	EV-2637-1	1.2	---	P4	C	3000	PENTODE SECTION.
PCF80	10.0	EV-9108-6	4.8	---	P4	C	3000	TRIODE SECTION.
PCF82	10.0	EV-2637-0	0.8	---	P4	D	2400	PENTODE SECTION.
PCF82	10.0	EV-9108-0	1.0	---	P4	C	5350	TRIODE SECTION.
PCF86	7.5	EV-2893-0	0.8	---	P4	C	5050	PENTODE SECTION.
PCF86	7.5	EV-6703-0	8.0	---	P4	C	4000	TRIODE SECTION.
PCF200	7.5	FW-3782-4	1.5	---	P4	C	4700	PENTODE SECTION. USE ADAPTER SA-11 MODEL 539H# USE SA-11 & CA-4.
PCF200	7.5	FW-W901-0	1.2	---	P4	D	3000	NOTE 7.
PCF201	7.5	FW-3782-4	1.5	---	P4	C	4400	TRIODE SECTION.
PCF201	7.5	FW-W901-0	4.5	---	P4	C	3150	PENTODE SECTION. USE ADAPTER SA-11 MODEL 539H# USE SA-11 & CA-4.
PCF801	7.5	EV-2671-0	1.0	---	P4	C	4900	NOTE 7.
PCF801	7.5	EV-9803-0	4.2	---	P4	C	6100	TRIODE SECTION.
PCF802	10.0	EV-2637-0	1.6	---	P4	D	2400	TRIODE SECTION.
								PENTODE SECTION.

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TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
PCF802	10.0	EV-9108-0	1.1	---	P4	D	2200	TRIODE SECTION.
PCF805	7.5	EV-7328-0	1.0	---	P4	C	4600	PENTODE SECTION.
PCF805	7.5	EV-9108-0	6.0	---	P4	D	3000	TRIODE SECTION.
PCH200	10.0	FW-3741-2	1.0	---	--	E	700	HEPTODE SECTION. HOLD DOWN P1 & PRESS P4. USE ADAPTER SA-11. MODEL 5398# USE SA-11 & CA-4. NOTE 7.
PCH200	10.0	FW-8W09-0	2.4	---	P4	C	3150	TRIODE SECTION.
PCL82	12.6	EV-3672-0	7.2	---	P4	D	3100	PENTODE SECTION.
PCL82	12.6	EV-1908-0	0.5	---	P4	D	1650	TRIODE SECTION.
PCL83	12.6	EV-9687-0	4.0	---	P4	D	2650	PENTODE SECTION.
PCL83	12.6	EV-2103-0	4.0	---	P4	E	200	TRIODE SECTION.
PCL84	12.6	EV-8697-0	0.6	---	P4	C	6900	PENTODE SECTION.
PCL84	12.6	EV-1203-0	1.0	---	P4	D	2800	TRIODE SECTION.
PCL85	20.0	EV-9678-0	8.0	---	P4	C	4100	PENTODE SECTION.
PCL85	20.0	EV-2103-0	2.0	---	P4	D	2800	TRIODE SECTION.
PCL86	12.6	EV-8637-0	1.0	---	P4	C	5500	PENTODE SECTION.
PCL86	12.6	EV-1902-0	0.7	---	P4	E	550	TRIODE SECTION.
PD500	10.0	EV-0801-0	0.0	---	P1	E	----	CAP = G. USE HICKOK ADAPTER SA-8 CODE NO. 1050-168. NOTE 3.
PF86	4.3	EV-9613-8	1.5	---	P4	D	1150	
PFL200	20.0	FW-8W97-0	1.4	---	P4	C	6300	PENTODE NO. 1. SET POWER ADJUST AT 90V. USE ADAPTER SA-11. MODEL 5398 USE SA-11 & CA-4. NOTE 7.
PFL200	20.0	FW-1432-0	0.5	---	P4	C	5300	PENTODE NO. 2. SET POWER ADJUST AT 90V.
PL21	6.3	ET-1602-5	---	89	P5	G	----	STRIKES @ ABOUT 1.8V. NOTES 3&2.
PL36	25.0	HS-5048-0	11.0	---	P4	C	5000	CAP = P.
PL81	20.0	EV-2083-9	13.0	---	P4	C	3800	CAP = P.
PL82	20.0	EV-2793-0	6.0	---	P4	D	3500	DISREGARD SHORTS TEST AFTER GM TEST IS COMPLETED. ALLOW 60 SEC. FOR WARM-UP & 5 SEC. FOR GM READINGS. KEEP LINE ADJUSTED AT 80 V.
PL83	12.6	EV-2713-6	1.0	---	P4	C	6300	
PL84	12.6	EV-2793-0	8.0	---	P4	C	6300	
PL500	25.0	EV-2078-0	16.0	---	P4	C	5000	SET POWER ADJUST AT 114 VOLTS. CAP = P. USE HICKOK ADAPTER SA-8 CODE NO. 1050-168.
PL505	35.0	EV-1039-2	27.0	---	P4	D	2600	CAP = P. USE HICKOK ADAPTER SA-8 CODE NO. 1050-168.
PL508	20.0	EV-1637-0	12.0	---	P4	D	2600	SET CATH. ACT. SWITCH TO TEST. USE HICKOK ADAPTER SA-8, 1050-168.
PL521	25.0	EV-8039-2	7.0	---	P4	C	5700	CAP = P. PLATE VOLTS = LOW. USE HICKOK ADAPTER SA-8, 1050-168.
PLL80	12.6	EV-2317-0	2.0	---	P4	D	3300	PENTODE NO. 1.
PLL80	12.6	EV-6897-0	2.0	---	P4	D	3300	PENTODE NO. 2.
PM04	6.3	ET-1567-2	1.0	---	P4	D	2070	
PM05	6.3	ET-1562-0	1.8	---	P4	C	3150	
PM07	6.3	ET-1572-6	1.0	---	P4	C	3800	
PY80	20.0	EV-0903-0	0.0	91	P3	G	----	
PY81	20.0	EV-0009-0	0.0	90	P3	G	----	NOTE 3.
PY82	20.0	EV-0903-0	0.0	91	P3	G	----	CAP = P. REVERSE METER. NOTE 3.
PY88	25.0	EV-0009-0	0.0	89	P3	G	----	NOTE 3.
PY500	50.0	EV-0007-0	0.0	90	P3	G	----	CAP = P. REVERSE METER. NOTE 3.
PY800	20.0	EV-0009-0	0.0	---	P3	F	----	ADAPTER SA-8, 1050-168. NOTE 3.
QA2403	6.3	ET-1572-6	1.0	---	P4	C	3800	CAP = P. REVERSE METER. NOTE 3.
QA2406	12.6	EV-7608-0	1.6	---	P4	D	2500	TRIODE NO. 1.
QA2406	12.6	EV-2103-0	1.6	---	P4	D	2500	TRIODE NO. 2.
QE03/10	6.3	EV-9167-3	0.0	---	P4	C	4400	
QE05/40	6.3	HS-5031-8	10.5	---	P4	C	4400	CAP = P.
QE05/40F	12.6	HS-5031-8	10.5	---	P4	C	4400	CAP = P.
QE05/40H	25.0	HS-5031-8	10.5	---	P4	C	4400	CAP = P.
QE06/50	6.3	FR-3024-0	6.0	---	P4	D	2400	CAP = P.
QQE02/5	12.6	EV-3872-0	3.5	---	P4	D	3150	TETRODE NO. 1. NOTE 8# 1-, 2+.
QQE02/5	12.6	EV-1672-0	3.5	---	P4	D	3150	TETRODE NO. 2. NOTE 8# 3-, 2+.
QQE03/12	12.6	EV-3872-0	8.0	---	P4	D	2100	TETRODE NO. 1. NOTE 8# 1-, 2+.

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TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
QOE03/12	12.6	EV-1672-0	8.0	---	P4	D	2100	TETRODE NO. 2. NOTE 8# 3-, 2+. TETRODE NO. 1. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 6-, 4+, & CONNECT PLATE JACK TO LEFT CAP.
QOE03/20	12.6	HR-2034-0	5.0	---	P4	E	1550	
QOE03/20	12.6	HR-6035-0	5.0	---	P4	E	1550	TETRODE NO. 2. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 2-, 4+, & CONNECT PLATE JACK TO RIGHT CAP. PLATE NO. 1. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 6-, 4+, & CONNECT PLATE JACK TO LEFT CAP.
QOE06/40	12.6	HR-2034-0	5.6	---	P4	D	2400	
QOE06/40	12.6	HR-6034-0	5.6	---	P4	D	2400	TETRODE NO. 2. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 2-, 4+, & CONNECT PLATE JACK TO RIGHT CAP. TETRODE NO. 1. NOTE 8# 1-, 2+.
QOV02/6	12.6	EV-3872-0	3.5	---	P4	D	3150	
QOV02/6	12.6	EV-1672-0	3.5	---	P4	D	3150	TETRODE NO. 2. NOTE 8# 3-, 2+. TETRODE NO. 1. NOTE 8# 1-, 2+.
QOV03/10	12.6	EV-3872-0	8.0	---	P4	D	2100	
QOV03/10	12.6	EV-1672-0	8.0	---	P4	D	2100	TETRODE NO. 2. NOTE 8# 3-, 2+. TETRODE NO. 1. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 2-, 4+, & CONNECT PLATE JACK TO LEFT CAP.
QOV03/20A	12.6	HR-2034-0	5.0	---	P4	E	1550	
QOV03/20A	12.6	HR-6034-0	5.0	---	P4	E	1550	TETRODE NO. 2. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 2-, 4+, & CONNECT PLATE JACK TO RIGHT CAP. PLATE NO. 1. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 2-, 4+, & CONNECT PLATE JACK TO RIGHT CAP.
QOV06/40	12.6	HR-6034-0	5.6	---	P4	D	2400	
QOV06/40	12.6	HR-2034-0	5.6	---	P4	D	2400	TETRODE NO. 2. USE HICKOK ADAPTER, SA-6, 1050-107. NOTE 8# 6-, 4+, & CONNECT PLATE JACK TO LEFT CAP. REGULATION = 5 VOLTS, 2 TO 10 MA. CONNECT A 470K RESISTOR BETWEEN PINS 1 & 4 OF ANY TEST SOCKET. STARTS AT ABOUT 110 VOLTS. CAP = P.
QS95/10	OFF	AP-0501-0	---	---	P4	H	95V	
OV05/25	6.3	FR-3024-0	6.0	---	P4	D	2400	STARTS AT ABOUT 125V. REGULATION = 3V FROM 1 TO 10 MA. STARTS AT ABOUT 115V. REGULATION = 2V FROM 5 TO 30 MA. STARTS AT ABOUT 155V. REGULATION = 2V FROM 5 TO 30 MA. CAP = P. NOTE 3.
STV85/10	OFF	AP-0102-0	---	---	P4	H	85V	
STV108/30	OFF	AP-0502-0	---	---	P4	H	108V	CAP = P. NOTE 3. CAP = P. NOTE 3.
STV150/30	OFF	AP-0502-0	---	---	P4	H	150V	
U26	6.3	ES-0000-0	0.0	14	P5	G	----	PLATE NO. 1. NOTES 3 & 6. PLATE NO. 2. NOTES 3 & 6. PLATE NO. 1. NOTE 3. PLATE NO. 2. NOTE 3. PLATE NO. 1. NOTE 3.
U49	6.3	ES-0000-0	0.0	14	P5	G	----	
U52	5.0	JS-0600-0	0.0	87	P3	G	----	PLATE NO. 2. NOTE 3. NOTE 3. NOTE 3. CAP = P REVERSE METER. NOTE 3. NOTE 3.
U52	5.0	JS-0400-0	0.0	84	P3	G	----	
U70	6.3	HS-0508-1	0.0	85	P3	G	----	NOTE 3. NOTE 3. NOTE 3.
U70	6.3	HS-0308-1	0.0	85	P3	G	----	
U78	6.3	ET-0607-1	0.0	85	P3	G	----	NOTE 3. NOTE 3.
U78	6.3	ET-0107-6	0.0	85	P3	G	----	
U119	35.0	EV-0903-0	0.0	88	P3	G	----	NOTE 3. NOTE 3.
U152	20.0	EV-0903-0	0.0	91	P3	G	----	
U153	20.0	EV-0009-0	0.0	90	P3	G	----	NOTE 3. NOTE 3.
U154	20.0	EV-0903-0	0.0	91	P3	G	----	
U192	20.0	EV-0903-0	0.0	91	P3	G	----	NOTE 3. NOTE 3.
U381	35.0	EV-0903-0	0.0	88	P3	G	----	
U709	6.3	EV-0703-0	0.0	87	P3	G	----	PLATE NO. 1. NOTE 3. PLATE NO. 2. NOTE 3.
U709	6.3	EV-0103-0	0.0	87	P3	G	----	
U4A91	20.0	ET-0701-6	0.0	0	P1	G	----	DIODE NO. 1. NOTE 3. DIODE NO. 2. NOTE 3.
U4A91	20.0	ET-0205-6	0.0	0	P1	G	----	
U4BC80	25.0	EV-8907-0	1.3	---	P4	E	750	TRIODE SECTION. DIODE NO. 1. NOTE 3. DIODE NO. 2. NOTE 3. DIODE NO. 3. NOTE 3.
U4BC80	25.0	EV-0607-0	0.0	---	P1	D	----	
U4BC80	25.0	EV-0203-0	0.0	---	P1	E	----	PENTODE SECTION. DIODE SECTION. USE HICKOK ADAPTER SA-5 CODE NO. 1050-129. NOTE 3. TRIODE SECTION. DIODE NO. 1. NOTE 3.
U4BC80	25.0	EV-0107-0	0.0	---	P1	E	----	
U4F42	12.6	JR-6257-4	4.4	---	P4	E	750	PENTODE SECTION. DIODE SECTION. USE HICKOK ADAPTER SA-5 CODE NO. 1050-129. NOTE 3. TRIODE SECTION. DIODE NO. 1. NOTE 3.
U4F42	12.6	JR-0307-0	0.0	---	P1	C	----	
U8C41	12.6	JR-3207-0	1.3	---	P4	E	790	DIODE NO. 1. NOTE 3. SEE NEXT PAGE FOR CONTINUATION
U8C41	12.6	JR-0607-0	0.0	---	P1	C	----	

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
UBC41	12.6	JR-0507-0	0.0	---	P1	C	----	DIODE NO. 2. USE HICKOK ADAPTER SA-5 CODE NO. 1050-129. NOTE 3.
UBC81	12.6	EV-2103-0	1.3	---	P4	E	790	TRIODE SECTION.
UBC81	12.6	EV-0603-0	0.0	---	P1	C	----	DIODE NO. 1. NOTE 3.
UBC81	12.6	EV-0803-0	0.0	---	P1	C	----	DIODE NO. 2. NOTE 3.
UBF80	20.0	EV-2613-9	0.9	---	P4	E	1400	PENTODE SECTION.
UBF80	20.0	EV-0703-0	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
UBF80	20.0	EV-0803-0	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.
UBF89	20.0	EV-2613-9	2.6	---	P4	D	1800	PENTODE SECTION.
UBF89	20.0	EV-0803-0	0.0	---	P1	C	----	DIODE NO. 1. NOTE 3.
UBF89	20.0	EV-0705-0	0.0	---	P1	C	----	DIODE NO. 2. NOTE 3.
UC92	10.0	ET-6107-0	1.6	---	P4	D	2500	
UCC85	25.0	EV-7608-9	1.6	---	P4	D	2500	TRIODE NO. 1.
UCC85	25.0	EV-2103-9	1.6	---	P4	D	2500	TRIODE NO. 2.
UCH42	12.6	JR-6257-4	3.3	---	P4	E	950	HEXODE SECTION.
UCH42	12.6	JR-4307-6	4.7	---	P4	E	950	TRIODE SECTION.
UCH81	20.0	EV-2613-7	3.5	---	P4	D	950	USE HICKOK ADAPTER SA-5, 1050-129. HEPTODE SECTION.
UCH81	20.0	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
UCL82	50.0	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
UCL82	50.0	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
UCL83	35.0	EV-9687-0	4.0	---	P4	D	2650	PENTODE NO. 1.
UCL83	35.0	EV-2103-0	4.0	---	P4	E	200	PENTODE NO. 2.
UF41	12.6	JR-6257-0	3.0	---	P4	E	950	USE HICKOK ADAPTER SA-5, 1050-129.
UF42	20.0	JR-6257-4	0.5	---	P4	C	4600	USE HICKOK ADAPTER SA-5, 1050-129.
UF80	20.0	EV-2781-9	0.5	---	P4	C	4500	
UF85	20.0	EV-2781-9	2.0	---	P4	D	2500	
UF86	12.6	EV-9613-8	1.5	---	P4	D	1150	
UF89	12.6	EV-2783-9	2.2	---	P4	D	1900	
UL41	50.0	JR-6257-0	1.0	---	P4	C	6300	USE HICKOK ADAPTER SA-5, 1050-129.
UL84	50.0	EV-2793-0	4.0	---	P4	C	4500	
UM80	20.0	EV-1902-0	VARY	100	P4	G	----	CONNECT A 1 MEGOHM RESISTOR FROM PLATE JACK TO OCTAL SOCKET PIN 7. VARY BIAS TO VARY BEAM.
UY41	35.0	BY-0207-0	0.0	82	P3	G	----	SET POWER ADJUST @ 85. USE HICKOK ADAPTER SA-5, 1050-129. NOTE 3.
UY42	35.0	BY-0207-0	0.0	82	P3	G	----	SET POWER ADJUST @ 85. USE HICKOK ADAPTER SA-5, 1050-129. NOTE 3.
UY85	35.0	EV-0903-0	0.0	88	P3	G	----	NOTE 3.
UY89	35.0	EV-0903-0	0.0	82	P3	G	----	SET POWER ADJUST AT 85V. NOTE 3.
W17	1.4	8X-6230-0	0.0	---	P4	E	490	PLATE VOLTS = LOW. NOTE 6.
W77	6.3	ET-1572-6	0.7	---	P4	D	1400	
X17	1.4	BX-4306-2	2.0	---	P4	E	880	PLATE VOLTS = LOW. NOTE 6.
X78	6.3	ET-2510-7	7.2	---	P4	E	485	HEXODE SECTION.
X78	6.3	ET-7600-0	1.8	---	P4	A	15000	TRIODE SECTION.
X108	20.0	ET-2510-7	7.2	---	P4	E	485	HEXODE SECTION.
X108	20.0	ET-7600-0	1.8	---	P4	A	15000	TRIODE SECTION.
X119	20.0	EV-2613-7	3.5	---	P4	D	950	HEPTODE SECTION.
X119	20.0	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
X142	12.6	JR-6257-4	3.3	---	P4	E	800	HEXODE SECT. USE HICKOK ADAPTER SA-5, CODE NO. 1050-129.
X142	12.6	JR-4307-6	4.7	---	P4	F	900	TRIODE SECTION.
X719	6.3	EV-2613-7	3.5	---	P4	D	950	HEPTODE SECTION.
X719	6.3	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
X727	6.3	ET-7562-1	0.0	---	---	D	940	AMPL. SECTION. HOLD DOWN P1 AND PRESS P4.
X727	6.3	ET-1602-7	2.0	---	P4	C	4500	OSC. SECTION.
XC95	2.0	ET-2567-0	0.8	---	P4	C	6600	
XC97	2.5	ET-2501-6	1.4	---	P4	C	7000	
XC900	2.0	ET-1502-6	1.2	---	P4	C	8000	
XCC82	6.3	EV-7608-0	3.2	---	P4	D	1950	TRIODE NO. 1.
XCC82	6.3	EV-2103-0	3.2	---	P4	D	1950	TRIODE NO. 2.
XCC189	4.3	EV-7608-0	2.4	---	P4	C	7500	TRIODE NO. 1.
XCC189	4.3	EV-2103-0	2.4	---	P4	C	7500	TRIODE NO. 2.

TUBE TYPE	FIL.	SELECTORS	BIAS VOLTS	SHUNT	PRESS	RANGE	MIN. MUT.COND.	NOTATIONS FOR EXPLANATIONS - SEE BACK COVER
XCF80	4.3	EV-2637-1	1.2	---	P4	C	3000	PENTODE SECTION.
XCF80	4.3	FV-9108-6	4.8	---	P4	C	3000	TRIODE SECTION.
XCF86	5.0	EV-2893-0	0.6	---	P4	C	5400	PENTODE SECTION.
XCF86	5.0	FV-6703-0	5.4	---	P4	D	3000	TRIODE SECTION.
XCF801	6.3	EV-2671-0	1.0	---	P4	C	4900	PENTODE SECTION.
XCF801	6.3	FV-9803-0	4.2	---	P4	C	6100	TRIODE SECTION.
XCH81	3.0	EV-2613-7	3.5	---	P4	D	950	HEPTODE SECTION.
XCH81	3.0	EV-9803-2	1.5	---	P4	D	2300	TRIODE SECTION.
XCL82	7.5	EV-3672-0	7.4	---	P4	D	2700	PENTODE SECTION.
XCL82	7.5	EV-1908-0	0.6	---	P4	E	1350	TRIODE SECTION.
XCL84	7.5	EV-8697-0	0.6	---	P4	C	6900	PENTODE SECTION.
XCL84	7.5	EV-1203-0	1.0	---	P4	D	2800	TRIODE SECTION.
XCL85	10.0	EV-9678-0	8.0	---	P4	C	4100	PENTODE SECTION.
XCL85	10.0	EV-2103-0	2.0	---	P4	D	2800	TRIODE SECTION.
XF80	3.0	EV-2781-9	0.5	---	P4	C	4500	
XF85	3.0	EV-2781-9	2.0	---	P4	D	2500	
XF183	3.0	EV-2781-9	2.8	---	P4	C	3200	
XF184	3.0	EV-2781-9	1.2	---	P4	C	4900	
XL36	12.6	HS-5048-0	11.0	---	P4	C	5000	CAP = P.
XL84	7.5	EV-2793-0	1.0	---	P4	C	5650	TUBES INDICATING GAS# RETEST USING EV-1793-0.
XL86	7.5	EV-2793-0	4.0	---	P4	C	4500	
XL500	12.6	EV-2078-0	16.0	---	P4	C	5000	CAP = P. USE HICKOK ADAPTER SA-R CODE NO. 1050-168.
XY88	20.0	EV-0009-0	0.0	89	P3	G	----	CAP = P. REVERSE METER. NOTE 3.
YC95	3.0	ET-2567-0	0.8	---	P4	C	6600	
YC97	3.0	ET-2501-6	1.4	---	P4	C	7000	
YCC189	5.0	EV-7608-0	2.4	---	P4	C	7500	TRIODE NO. 1.
YCC189	5.0	EV-2103-0	2.4	---	P4	C	7500	TRIODE NO. 2.
YF183	4.3	EV-2781-9	2.4	---	P4	C	3200	
YF184	4.3	EV-2781-9	1.2	---	P4	C	4900	
YL1080	1.4	EV-1670-3	1.0	---	P4	D	2200	TETRODE NO. 1.
YL1080	1.4	FV-3870-1	1.0	---	P4	D	2200	TETRODE NO. 2.
YL1370	6.3	HS-5031-8	10.5	---	P4	C	4400	CAP=P.
YL1371	12.6	HS-5031-8	10.5	---	P4	C	4400	CAP=P.
YL1372	25.0	HS-5031-8	10.5	---	P4	C	4400	CAP=P.
Z63	6.3	HS-0348-5	4.0	---	P4	E	770	CAP = G.
Z77	6.3	ET-1572-6	1.0	---	P4	C	3800	
Z150	6.3	JR-6257-4	0.5	---	P4	C	4600	
Z152	6.3	FV-2781-9	0.5	---	P4	C	4500	USE HICKOK ADAPTER SA-5, 1050-129.
Z719	6.3	EV-2781-9	0.5	---	P4	C	4500	
Z729	6.3	EV-9613-8	1.5	---	P4	D	1150	
ZD17	1.4	BX-6540-0	1.0	---	P4	F	390	PENTODE SECTION PLATE VOLTS = LOW. NOTE 6.
ZD17	1.4	BX-0340-0	0.0	---	P1	D		DIODE SECTION. NOTES 3 & 6.
ZD152	6.3	EV-2613-9	0.9	---	P4	F	1400	PENTODE SECTION.
ZD152	6.3	EV-2713-9	0.0	---	P1	D	----	DIODE NO. 1. NOTE 3.
ZD152	6.3	EV-2813-9	0.0	---	P1	D	----	DIODE NO. 2. NOTE 3.

ADAPTERS

for

TUBE TESTERS

As new tube types with new basing arrangements are developed, Hickok makes Adapters to accommodate them. These Adapters consist of the new bases which plug into a socket on your Tube Tester and thus enlarge its scope to the extent of the new basings. This Hickok policy greatly extends the useful life of your Tester. Consult the following list of Adapters with

their descriptions to determine which Adapter meets your requirements. Please order by both Model and Code number of the Adapter, as well as indicating the Model and Serial number of the Tube Tester with which the Adapter is to be used. Prices listed below are subject to change without notice.

Model No.	Code No.		Net Price
CA-5	1050-164	Adapter - Latest Tube Bases: This adapter provides tube test sockets for Compactrons, Novars, 5 and 7-pin Nuvistors and the new 10-pin tubes, including Decals. Three selector switches provide selection of tube elements on the latest based tubes and a permanently attached lead provides for top cap tube connections. The adapter is supplied with a connecting cable terminating in a Noval plug which is plugged into the tube tester Noval test socket.	\$51.25
SA-1	1050-94	Subminiature Adapter, with sockets for testing 7-pin inline and 8-pin round tube types on some early units of Models 539B, 539C, 580, 750, 752, 752A, 6000, 6000A and 6005 Tube Testers that were not supplied with these sockets on their panels, although most of the above Testers are equipped with these sockets. Check your particular Tester before ordering	\$10.80
SA-2	1050-99	Subminiature Adapter, with sockets for testing 7-pin inline and 8-pin round tube types on some early units of Models 533A, 600A, 800, 800A and 1575 Tube Testers that were not supplied with these sockets on their panels, although most of the above Testers are equipped with these sockets. Check your particular Tester before ordering	\$10.80
SA-3	1050-127	Nuvistor Adapter, for testing 5-pin Nuvistor tube types on all Hickok Tube Testers not supplied with this socket on the panel. NOTE: This socket is also on the CA-4, 1050-135 (and CA-5, 1050-164) Universal Adapters. If you have a Universal Adapter, this Nuvistor Adapter is unnecessary.	\$10.80
SA-4	1050-144	Novar Adapter, for testing all Novar tube types on all Hickok Tube Testers not supplied with this socket on the panel. NOTE: This socket is also on the CA-4, 1050-135 (and CA-5, 1050-164) Universal Adapters. If you have a Universal Adapter, this Novar Adapter is unnecessary.	\$10.80
SA-5	1050-129	Rimlock Adapter, for testing Foreign Rimlock tube types on all Hickok Tube Testers	\$16.80
SA-6	1050-107	Septar Adapter, for testing Septar tube types such as 829B, 832A, etc., on all Hickok Tube Testers.	\$17.70
SA-7	1050-9	Acorn Adapter, for testing Acorn tube types on all Hickok Tube Testers not supplied with this socket on the panel.	\$20.10
SA-8	1050-168	Magnoval Adapter, for testing Magnoval tube types on all Hickok Tube Testers not supplied with this socket . CAUTION: Any attempt to force a Magnoval tube type into a Novar socket (it can be done) will spread the pin contacts in the socket and render it permanently useless for testing Novar tube types	\$10.80
SA-9	1050-121	Pencil Tube Adapter, for testing Pencil tube tubes on all Hickok Tube Testers	\$11.95
SA-11	1050-177	Decal Adapter, for testing 10-pin Decal tube types on all Hickok Tube Testers not supplied with this socket on panel. The following list of early Hickok Tube Testers also require a CA-4, 1050-135, Universal Adapter be used in conjunction with this Adapter: Models 533A, 539B, 600A, 605A, 750, 752, 800, 1575, 6000 and 6005.	\$10.80

NOTATIONS

- NOTE 1: The letter that appears in the RANGE column indicates the setting of the FUNCTION SWITCH.
- NOTE 2: (symbol "# " on Roll Chart) Set BIAS VOLTS at 40, press and hold down button indicated in the PRESS column while rotating BIAS VOLTS control until tube strikes. The striking voltages indicated are nominal values and reference to handbook "Critical Grid Characteristics" of Thyratron tubes reveals appreciable variations from these values.
- NOTE 3: (symbol "★ " on Roll Chart) Make emission tests only. Good tubes will read above index mark "RECTIFIERS & DIODES OK" on METER.
- NOTE 4: Mutual Conductance Values are minimum. Discard tubes which read lower.
- NOTE 5: Readjust BIAS VOLTS after button P4 is pressed, then read Gm.
- NOTE 6: (symbol "↓ " on Roll Chart) A short indication on position "A" of the shorts switch is normal.
- NOTE 7: For TUBE TESTER Models 539B and 539C, the Universal Adapter CA-5, 1050-164, is available. This Adapter provides tube test sockets for Compactrons, Novars, 5 and 7-pin Nuvistors, and the new 10-pin tubes, including Decals. Test data for these tubes is supplied in supplementary form with the Adapter. See inside back cover for description of all adapters.
- NOTE 8: "Cut off" tube section NOT being tested by means of a 30 to 35 volt battery (Eveready 413 or equal). Polarity and connections are indicated in the NOTATIONS column: e. g., NOTE 8: 7-, 2+, indicates connect negative lead to pin 7 and positive lead to pin 2 of any convenient socket on the tester.
- CAUTION: Disconnect battery between any change of SELECTORS.