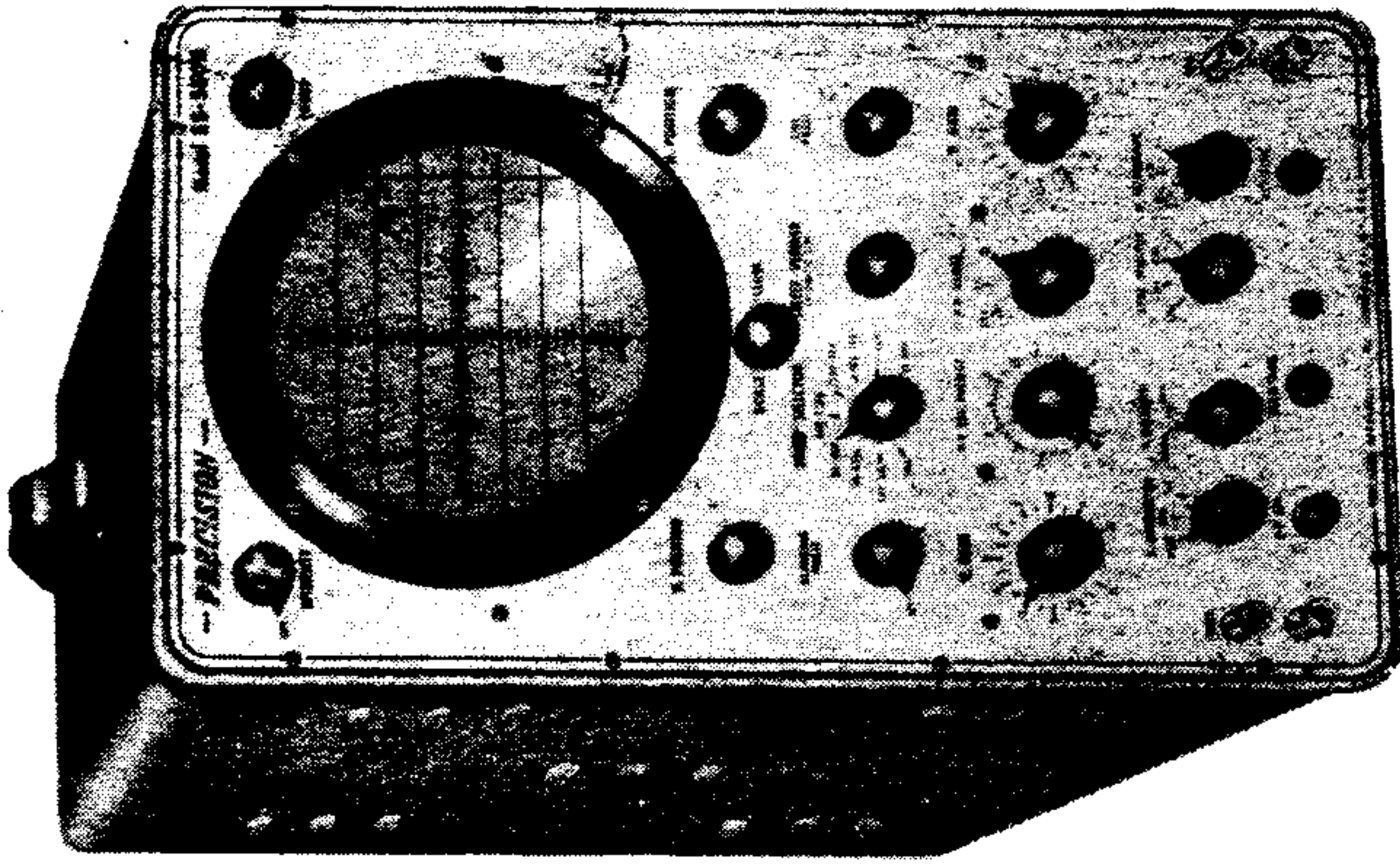


EVERYTHING YOU WANT IN AN

OSCILLOSCOPE

MODEL ES-550B FEATURES

- RESPONSE, 10 CYCLES TO 5 MEGACYCLES**
- PUSH-PULL WIDE-BAND VERTICAL AMPLIFIER**
10 MV (0.1 volts) per inch sensitivity
Cathode-follower Input: 2 megohms and 22 mmf
Response 1 Db from 10 cps to 3.5 Mc; 3 Db at 5 Mc
- 3-POSITION VERTICAL STEP ATTENUATOR**
frequency-compensated; X100, X10, X1
- DIRECT-READING PEAK-TO-PEAK VOLTAGE CALIBRATOR** permits use of oscilloscope as dependable high-impedance Vacuum Tube Voltmeter
- VERTICAL PATTERN REVERSING SWITCH**
- PUSH-PULL WIDE-RANGE HORIZONTAL AMPLIFIER**
100 MV (0.1 volts) per inch sensitivity
Cathode-follower Input: 2 megohms and 22 mmf
Response 1 Db from 10 cps to 1.0 Mc; 3 Db at 2 Mc
- 3-POSITION HORIZONTAL STEP ATTENUATOR**
frequency compensated; X100, X10, X1
- LINEAR MULTI-VIBRATOR SWEEP CIRCUIT**
10 cycles to 100 Kc; automatically synchronized 30 cycles and 7875 cycles sweep for TV sync-pulse analysis; amplified sweep retrace blanking
- AMPLIFIED AUTO-SYNC CIRCUIT**
active on all internal sweep ranges
- FOUR-WAY SYNC SELECTION**
Internal negative, Internal Positive, External & Line
- 3000-VOLT INTENSIFIER ANODE POTENTIAL**
assures utmost visibility of oscilloscope traces for pulsed waveforms and high frequencies
- "Z" AXIS INPUT TERMINAL**
for blanking, timing and marking
- BUILT-IN 60 CPS PHASING AND BLANKING CONTROLS**
- ALL 4 DEFLECTION PLATES READILY AVAILABLE**
with full beam centering
- HIGH-CONTRAST FILTER-TYPE ILLUMINATED GRATICULE**
- CAMERA MOUNT BEZEL**
- TUBE COMPLEMENT:**
12AV7 vertical cathode follower and amplifier
6U8 vertical amplifier and phase splitter
Two 6CL6 push-pull vertical drivers
6U8 horizontal cathode-follower and amplifier
6C4 horizontal phase splitter
12BH7 push-pull horizontal driver
12AV7 wide-range linear sweep multi-vibrator
6BH6 auto-sync amplifier
12AU7 sweep retrace blanking amplifier
OA2 voltage regulator
5V4 low voltage rectifier
Two 1V2 high voltage rectifiers
5CP1/A cathode ray tube
- CUSTOM-STYLED CABINET**
of blue-grey, ripple-finish, heavy-gauge steel
- 2-COLOR SATIN BRUSHED-ALUMINUM PANEL**
- DIMENSIONS 8 1/4" x 14 1/2" x 18 1/2"**
- SHIPPING WEIGHT 47 lbs**



MODEL ES-550B

5 MEGACYCLE
HIGH SENSITIVITY
5 OSCILLOSCOPE

The complete answer to laboratory, industrial and electronic technicians' requirements for a rugged, dependable instrument for broadest coverage of oscilloscope applications including color TV. Provides an unparalleled standard of extra-high sensitivity with full 5-megacycle wide-frequency response, plus many other special performance features — at an unusually low price.

MODEL ES-550B, complete with comprehensive technical manual.
NET PRICE \$249.95

SUPPLEMENTARY TUBE DATA

FOR USE WITH
PRECISION TUBE TESTERS

PRECISION
TEST INSTRUMENTS BY

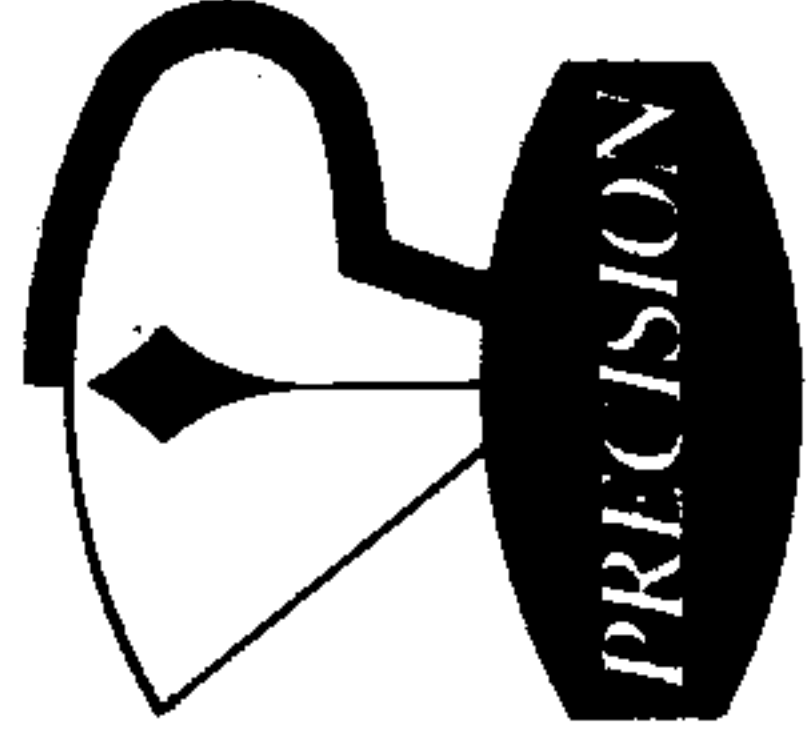


MODELS

910, 912, 914, 915
920, 922, 954

This Supplementary Chart provides settings for tubes which fall into one or more of the following classifications:

1. Infrequently encountered types;
2. Obsolete types;
3. Tubes manufactured for special or limited applications;
4. Foreign tubes.



PRECISION Apparatus Co., Inc.
(A SUBSIDIARY OF PACOTRONICS, INC.)
70-31 84th Street, Glendale 27, Long Island, N. Y.

MORE

OF EVERYTHING YOU WANT IN A V-O-M

- New Mirrored Scale Plate
- Wider Frequency Response AC Ranges
- New DC Polarity Reversing Switch

MODEL 120 FEATURES

20,000 OHMS-PER-VOLT DC

5,000 OHMS-PER-VOLT AC

61 RANGES start lower and go higher than other instruments of its size and type

EXTRA-LOW RESISTANCE RANGE

2 ohms at center scale (R x 1/10)

EXTRA-LOW VOLTAGE RANGES 0.3 V full scale DC, 1.2 V full scale AC

EXTENDED LOW-CURRENT RANGE 60 μ A first DC range

EXTRA-LARGE 5 1/2" WIDE VISION PACE METER with polished mirrored-scale

SIMPLE RANGE SELECTOR with silver-plated contacts

DC POLARITY REVERSING SWITCH

WIDE FREQUENCY RESPONSE AC AND DB RANGES flat from 15 cps to 100 Kc \pm 1 Db

"TRANSIT" POSITION ON RANGE SELECTOR protects meter during transportation

ONLY 2 PLUG-JACKS SERVE ALL STANDARD RANGES

SOLID BRASS BANANA-TYPE JACKS AND PLUGS

CUSTOM-MOLDED PHENOLIC CASE AND PANEL

SPECIFICATIONS

9 DC VOLTAGE RANGES 20,000 ohms-per-volt (neg. and pos. reading) 0-0.3-1.2-3-12-60-300-600-1200-6000 V.

8 AC AND OUTPUT VOLTAGE RANGES 5000 ohms-per-volt (wide frequency response); built-in 600 V blocking capacitor; 0-1.2-3-12-60-300-600-1200-6000 volts

7 DC CURRENT RANGES (neg. and pos. reading) 0-60-300 μ amps; 0-1.2-12-120-600 Ma; 0-12 amps

5 RESISTANCE RANGES (self-contained batteries)

0-200-2000-200,000 ohms; 0-2-20 megohms

8 WIDE-FREQUENCY DECIBEL RANGES

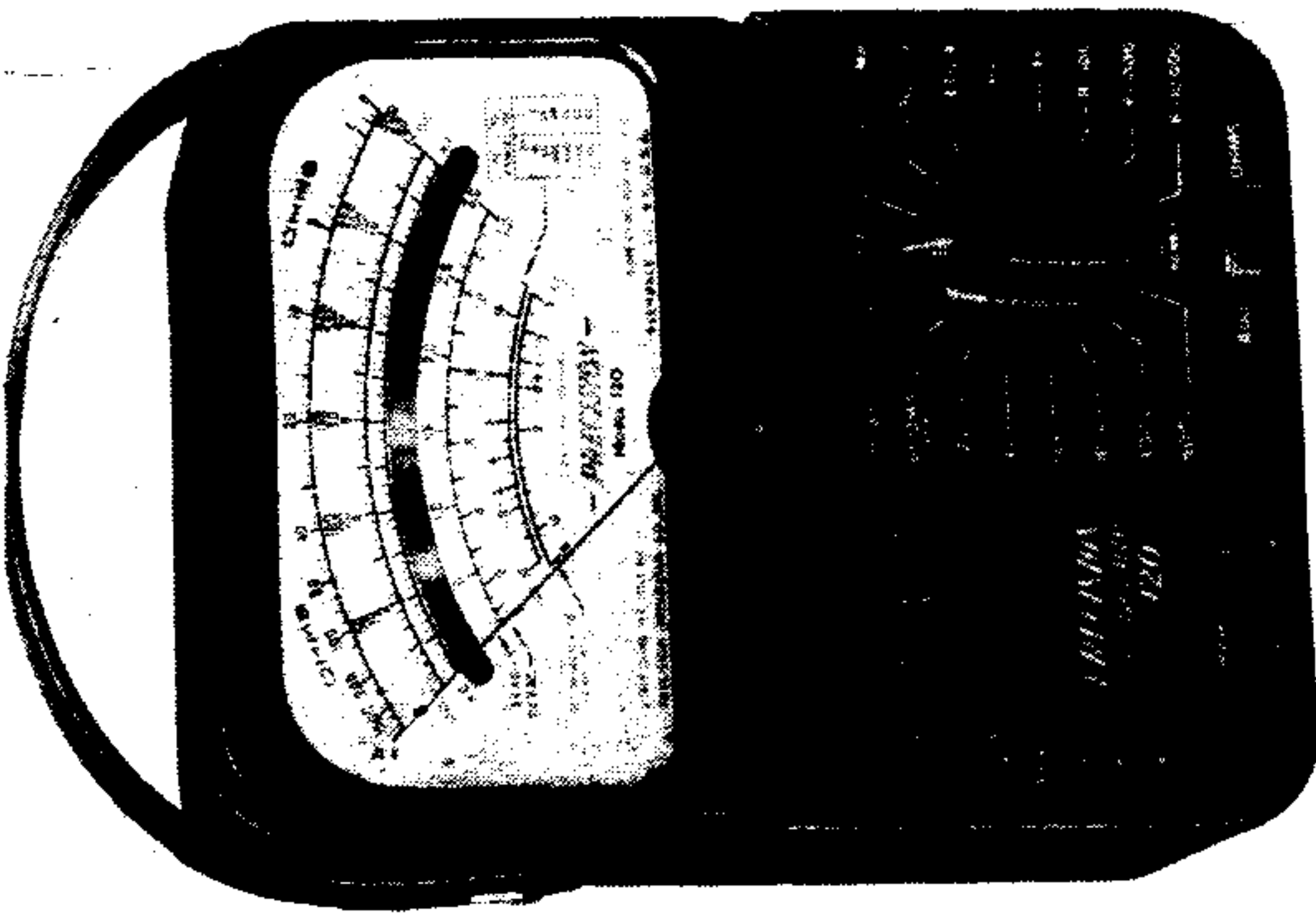
from -20 to +77 Db; 0 Db equals 1 Mw, 600 ohms

RUGGED 50 MICROAMP PACE METER \pm 2% accuracy

1% MULTIPLIERS AND SHUNTS

DIMENSIONS 5 3/8" x 7" x 3 1/8"

SHIPPING WEIGHT 4 lbs



MODEL 120

LABORATORY-TYPE VOLT-OHM- MILLIAMMETER WITH MIRRORED-SCALE

This instrument is the most comprehensive Volt-Ohm-Milliammeter ever offered within its price range. It features 61 ranges and functions specifically designed for use in industry, laboratory, maintenance shop and technical school.

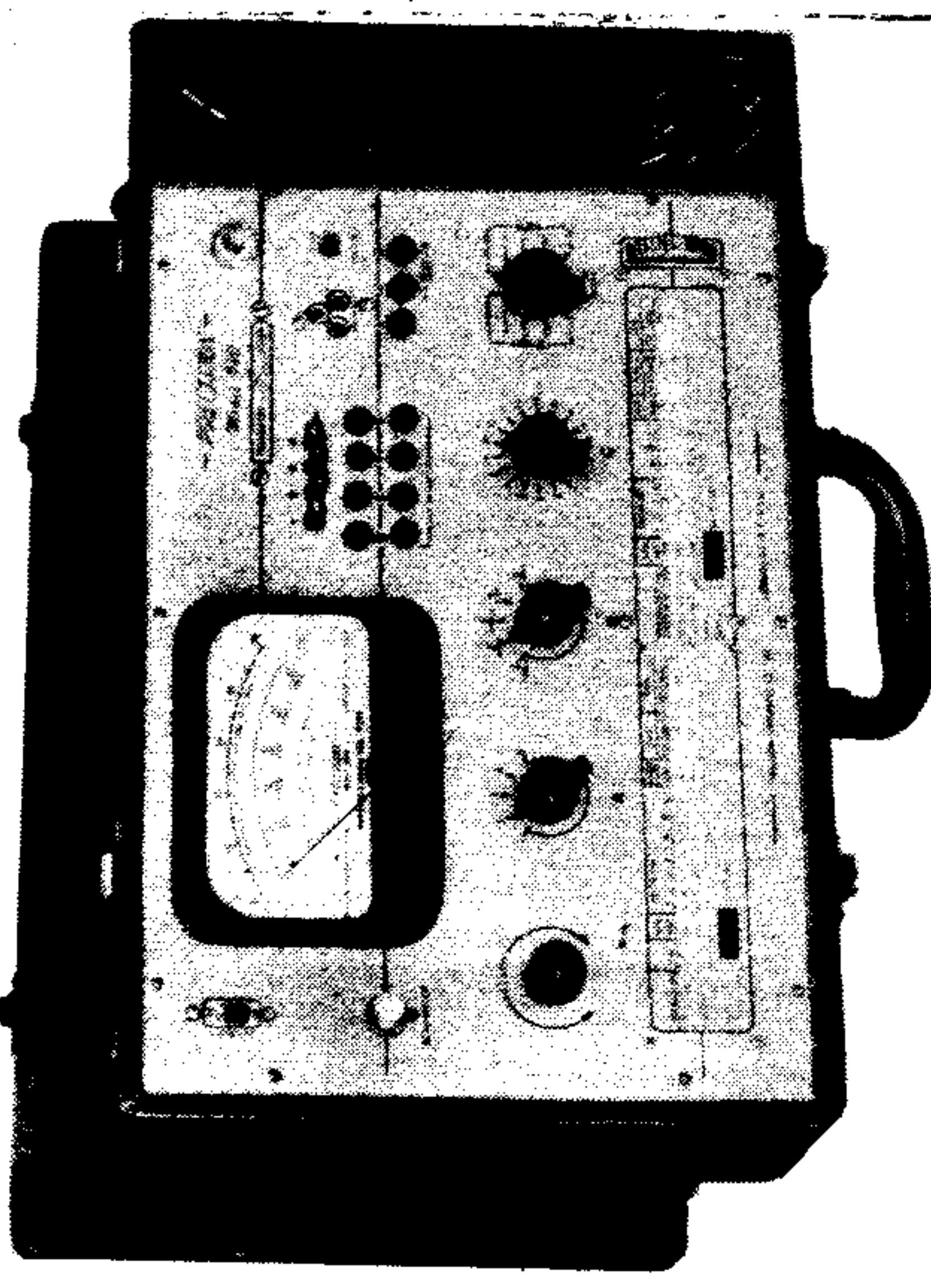
MODEL 120, complete with batteries, test leads and technical manual.

NET PRICE \$44.95

MORE

OF EVERYTHING YOU WANT IN A

TRANSISTOR AND CRYSTAL DIODE TESTER



MODEL 960 FEATURES

TESTS

1. LOW-POWER TRANSISTORS
2. MEDIUM-POWER TRANSISTORS
3. POWER TRANSISTORS
4. CRYSTAL DIODES

DIRECT Icbo READINGS in terms of true collector current

FIVE Icbo RANGES cover all types of transistors - low, medium and high power; n-p-n and p-n-p types

WIDE RANGE OF COLLECTOR POTENTIALS

0.5 volts DC to 100 volts DC in 17 steps

DIRECT-READING BETA RANGES. Circuit provides for five separate injection currents for low, medium and high power types

LEAKAGE TEST provides basis for accurate beta checks

CRYSTAL DIODE TESTS. 17 selected DC voltages for reverse current tests; also provides for separate forward tests

WIDE-ANGLE 5 1/2" 100 MICROAMP-SENSITIVITY PACE METER

TRANSISTOR TEST SETTINGS listed on roller chart

PATCHCORD ELEMENT SELECTOR SYSTEM AND UNIVERSAL SEMI-CONDUCTOR ADAPTER provide for accommodation of future semi-conductor releases

HIGH-SPEED GEARED ROLL CHART with time saving PRECISION "Tube Finder" feature

TRANSISTOR AND CRYSTAL DIODE TEST DATA SUBSCRIPTION SERVICE SUPPLIED FREE to all registered owners for first year of ownership; thereafter at a nominal subscription cost (see Page 7).

PORTABLE WELL-CONSTRUCTED INSTRUMENT CARRYING CASE has accessory compartment and hinged, removable cover

ETCHED SATIN BRUSHED-ALUMINUM 3-COLOR PANEL

DIMENSIONS 18" x 10 1/2" x 6 1/4"

SHIPPING WEIGHT 15 lbs

FOR ONLY

\$99.95

MODEL 960

TRANSISTOR AND CRYSTAL DIODE TESTER

A comprehensive semiconductor test set designed for practical, reliable testing of transistors and crystal diodes. Specialized circuitry and operating parameters have been engineered in cooperation with leading semiconductor manufacturers. Self-contained AC power supply completely eliminates necessity for batteries.

MODEL 960, complete with Transistor Test Cable and detailed technical manual.

NET PRICE \$99.95

Tube	Section	A	B	C	D	E	F	Depress
OA4		7	1	0	7	12	1	D
OY4		2	1	0	4	1	8	D
	(OY4—Shows short on A, F)							
	(OY4—May show short on B)							
OZ3	plate 1	7	1	0	4	12	1	B
"	plate 2	7	1	0	4	12	1	C
OZ4	plate-1	7	1	0	4	12	1	B
"	plate-2	7	1	0	4	12	1	D
01-A		3	5	19	20	1	1	B
1A3	diode	7	1	0	30	10	1	BF
	(1A3—Must show short on B, E, F)							
	(1A3—Plate Short Test—Depress B-F together)							
1A4		7	2	18	45	3	1	BC
1A5		4	1	19	29	3	1	BC
1A6	amp.	7	2	46	46	5	1	BE
"	osc.	4	2	43	42	1	1	C
1A7	amp.	7	1	20	44	3	1	BC
"	osc.	4	1	32	47	1	1	E
1AB5		5	1	29	22	3	1	BC
	(1AB5—Must show short on F)							
	(1AB5—Fil. Cont.—Depress A, F, then both A-F)							
1AB6	*amp.	3	1	45	49	6	1	BEF
"	osc.	4	1	0	23	5	1	C
	*(1AB6—Amp. Sect.—OK above 1/3 scale)							
1AC5		9	1	22	26	6	6	AF
	(1AC5—Fil. Cont.—Depress C)							
1AC6	*amp.	3	1	0	37	11	1	BF
"	*osc.	4	1	33	50	3	1	CE
	*(1AC6—OK above 1/3 scale)							
1AD4		3	1	15	47	10	6	HJ
	(1AD4—Fil. Cont.—Depress B)							
1AD5		9	1	15	47	6	6	AF
	(1AD5—Fil. Cont.—Depress C)							
1AE4		6	1	12	38	3	1	BC
	(1AE4—Fil. Cont.—Depress A, E, then both A-E)							
1AF4		4	1	15	43	3	1	BC
	(1AF4—Fil. Cont.—Depress A, E, then both A-E)							
1AF5	total	6	1	18	47	10	1	DE
	(1AF5—OK above 1/3 scale)							
1AG4		3	1	20	48	10	6	HJ
	(1AG4—Fil. Cont.—Depress B)							
1AG5	pentode	7	1	0	41	1	5	HJ
"	diode	7	1	0	30	10	5	B
	(1AG5—Fil. Cont.—Depress C)							
1AH4		3	1	13	45	11	6	HJ
	(1AH4—Fil. Cont.—Depress B)							
1AH5	*pentode	6	1	19	42	11	1	DE
"	diode	2	1	0	37	10	1	C
	*(1AH5—pentode section OK above 1/3 scale)							
1AJ4		6	1	25	34	3	1	BC
	(1AJ4—Fil. Cont.—Depress A, E, then both A-E)							

Tube	Section	A	B	C	D	E	F	Depress
1AJ5	pentode	7	1	0	42	1	5	HJ
"	diode	7	1	0	30	10	5	B
	(1AJ5—Fil. Cont.—Depress C)							
1AK4		3	1	23	48	10	6	HJ
	(1AK4—Fil. Cont.—Depress B)							
1AK5	*pentode	4	1	15	47	10	5	HJ
"	diode	7	1	0	31	10	5	B
	*(1AK5—Pent. Section—OK above 1/3 scale)							
	(1AK5—Fil. Cont.—Depress C)							
1AN5		6	1	22	41	3	1	BC
	(1AN5—Fil. Cont.—Depress A, E, then both A-E)							
1AX2	CAUTION—Note: Pins 2-4-6-8-9 must be open circuited before inserting tube in the instrument.							
"		1	1	0	45	12	2	G
	(1AX2—Fil. Cont.—Depress D)							
1B4	triode	7	2	19	43	3	1	BC
1B5	diode-1	5	2	11	42	1	1	B
"	diode-2	7	2	0	50	10	1	C
"	amp.	7	2	0	50	10	1	D
1B7	osc.	7	1	10	48	3	1	BC
"	diode	4	1	26	47	1	1	E
1B8	triode	7	1	0	35	10	1	F
"	pentode	4	1	15	23	3	1	BC
1C3		4	1	21	35	11	1	BF
	(1C3—Must show short on B, F)							
	(1C3—Plate Short Test—Depress B-F together)							
1C5	amp.	4	1	19	23	3	1	BC
1C6	osc.	7	2	46	46	5	1	BE
"	amp.	4	2	30	45	1	1	C
1C7	osc.	7	2	46	46	3	1	BC
"	amp.	4	2	30	45	1	1	E
1C8	osc.	1	1	47	47	11	6	EF
"	osc.	9	1	14	37	11	6	A
	(1C8—Fil. Cont.—Depress C)							
1C21		1	18	0	12	1	2	D
	(1C21—May show short on A, J)							
1D3		8	1	20	15	11	6	F
	(1D3—Fil. Cont.—Depress C)							
1D5	amp.	7	2	18	45	3	1	BC
1D7	osc.	4	2	37	45	1	1	E
1D8	diode	7	1	0	25	10	1	F
"	triode	7	1	15	40	1	1	E
"	pentode	4	1	20	25	3	1	BC
1E4		4	1	13	24	1	1	B
1E5		7	2	19	43	3	1	BC
1E7	pent.-1	3	2	24	27	6	1	BF
"	pent.-2	4	2	24	27	6	1	EF
1E8	amp.	6	1	13	41	1	6	AE
"	osc.	9	1	29	47	10	6	A
	(1E8—Amp. Section—OK above 1/3 scale)							
	(1E8—Fil. Cont.—Depress C)							
1F4		3	2	24	26	4	1	BD
1F5		4	2	24	24	3	1	BC

Tube	Section	A	B	C	D	E	F	Depress
UY-85		1	10	0	42	10	7	EGH
	(UY-85—Fil. Cont.—Depress D)							
	(UY-85—May show short on E, G, H)							
	(UY-85—Plate Short Test—Depress E-G-H together)							
XC-97		2	3	13	10	1	7	E
	(XC-97—Fil. Cont.—Depress D)							
	(XC-97—Must show short on A-J)							
	(XC-97—Cathode short test—Depress A-J together)							

Tube	Section	A	B	C	D	E	F	Depress
1F6	pentode	7	2	27	44	3	1	BC
"	diode-1	7	2	0	50	10	1	D
"	diode-2	7	2	0	50	10	1	E
1F7	pentode	7	2	21	50	5	1	BE
"	diode-1	7	2	0	50	10	1	C
"	diode-2	7	2	0	50	10	1	D
1G4		4	1	11	42	11	1	B
1G5		4	2	24	23	3	1	BC
1G6	triode-1	4	1	31	16	1	1	E
"	triode-2	3	1	31	16	1	1	B
1H4		4	2	17	23	1	1	B
1H5	triode	7	1	25	46	11	1	B
"	diode	7	1	0	35	10	1	D
1H6	triode	5	2	11	42	1	1	B
"	diode-1	7	2	0	50	10	1	C
"	diode-2	7	2	0	50	10	1	D
1J5		4	2	29	20	3	1	BC
1J6	triode-1	3	2	20	23	1	1	B
"	triode-2	4	2	20	23	1	1	E
1L6	amp.	6	1	11	45	5	1	BE
"	osc.	4	1	31	45	1	1	C
1LA4		5	1	19	29	3	1	BC
1LA6	amp.	5	1	20	44	7	1	BG
"	osc.	4	1	32	45	1	1	C
1LB4		5	1	26	23	3	1	BC
1LC5		5	1	14	40	3	1	BC
	(1LC5—Fil. Cont.—Depress A, G, then both A-G)							
1LC6	amp.	5	1	15	50	7	1	BG
"	osc.	4	1	28	40	1	1	C
1LD5	pentode	5	1	25	28	3	1	BC
"	diode	7	1	0	30	10	1	D
1LE3		5	1	13	24	1	1	B
1LF3		5	1	13	24	1	1	B
1LG5		5	1	13	44	3	1	BC
	(1LG5—Must show short on G)							
1LH4	diode	7	1	0	35	10	1	D
"	triode	5	1	25	46	11	1	B
1LN5		5	1	18	41	3	1	BC
	(1LN5—Fil. Cont.—Depress A, G, then both A-G)							
1N5		7	1	20	41	3	1	BC
1N6	diode	7	1	0	35	10	1	E
"	pentode	4	1	19	30	3	1	BC
1P5		7	1	21	42	3	1	BC
1Q5		4	1	15	19	3	1	BC
1Q6	pentode	9	1	25	45	11	6	AF
"	diode	9	1	0	50	10	6	E
	(1Q6—Fil. Cont.—Depress C)							
1R4	diode	7	1	0	25	10	1	D
	(1R4—Tube OK when reads past diode arrow)							
1S4		3	1	15	25	4	1	BDF
	(1S4—Fil. Cont.—Depress A, E, then both A-E)							
	(1S4—Must show short on B, E and F)							
	(1S4—Plate Short Test—Depress B-F Together)							
1SA6		3	1	20	35	5	1	EF
1SB6	pentode	6	1	24	41	3	1	BC
"	diode	7	1	0	45	10	1	D
1T5		4	1	15	23	3	1	BC
1T6	diode	7	1	0	33	10	6	E
"	pentode	2	1	17	40	6	6	FH
	(1T6—Fil. Cont.—Depress C)							

Tube	Section	A	B	C	D	E	F	Depress
1U6	amp.	6	1	10	47	5	1	BE
"	osc.	4	1	35	47	1	1	C
1V5		9	1	17	35	11	6	AF
		(1V5—Fil. Cont.—Depress C)						
1V6	triode	4	1	17	45	11	7	E
"	pentode	2	1	15	45	11	7	HJ
1W4		6	1	28	25	3	1	BC
1W5		9	1	16	40	11	6	AF
		(1W5—Fil. Cont.—Depress C)						
1, 1V		7	6	0	3	11	1	B
1V2		7	*1	0	44	1	6	G
		*(Insert 2.58 ohm— $\frac{1}{2}$ watt resistor in series with pin No. 4 to drop filament voltage to .625 volts)						
		(1V2—Fil. Cont.—Depress C)						
2A3		3	3	40	4	1	1	B
2A4		4	3	0	2	11	1	B
		(2A4—Do not Short Check A or D)						
2A5		4	3	25	19	3	1	BC
2A6	triode	7	3	12	40	1	1	B
"	diode-1	7	3	0	35	10	1	C
"	diode-2	7	3	0	35	10	1	D
2A7	amp.	7	3	15	50	3	1	BC
"	osc.	5	3	31	31	1	1	D
2A7S	amp.	7	3	26	50	3	1	BC
"	osc.	5	3	31	31	1	1	D
2AF4		7	3	0	11	1	6	AJ
		2AF4—Fil. Cont.—Depress C)						
		(2AF4—Must show short on A, B, F, J)						
		(2AF4—Grid Short Test—Depress BF Together)						
		(2AF4—Plate Short Test—Depress AJ Together)						
2B4		7	3	0	2	11	1	BC
2B5		Caution: Lead #7 of Tube to be Open Circuited—Do not insert this lead in Socket.						
"	triode-1	5	1	11	29	1	1	F
"	triode-2	2	1	11	29	1	1	H
		(2B5—Fil. Cont.—Depress C, D then both C-D)						
2B6	input	4	3	25	19	1	1	C
"	output	5	3	34	8	1	1	B
		(2B6—Must show short on E)						
2B7-S	pentode	7	3	26	32	3	1	BC
"	diode-1	7	3	0	35	10	1	D
"	diode-2	7	3	0	35	10	1	E
2BN4		2	2	0	20	1	6	E
		(2BN4—Fil. Cont.—Depress C)						
		(2BN4—Must show short on A, B, F, J)						
		(2BN4—Grid short test—Depress B, J together)						
		(2BN4—Cathode short test—Depress A, F, together)						
2C51	triode-1	2	6	26	8	1	3	C
"	triode-2	1	6	26	8	1	3	E
		(2C51—Fil. Cont.—Depress H)						
2C52	triode-1	8	8	31	13	1	4	J
"	triode-2	3	8	31	13	1	4	D

Tube	Section	A	B	C	D	E	F	Depress
UCL-81	triode	8	10	15	47	10	7	A
"	pentode	7	10	13	18	9	7	JE
		(UCL-81—Fil. Cont.—Depress D)						
		(UCL-81—Must show short on B, F)						
		(UCL-81—Cathode Short Test—Depress B-F together)						
UF-11		1	8	26	10	4	1	DE
		(UF-11—Fil. Cont.—Depress B)						
UF-15		1	9	5	35	5	1	DE
		(UF-15—Fil. Cont.—Depress B)						
UF-41		5	8	11	35	4	2	DJ
		(UF-41—Fil. Cont.—Depress F)						
		(UF-41—May show short on A, B)						
		(UF-41—Cathode short test—Depress A, B together)						
UF-80		9	12	3	37	6	6	AF
		(UF-80—Fil. Cont.—Depress C)						
		(UF-80—Must show short on B, H)						
		(UF-80—Cathode Short Test—Depress B-H together)						
UF-85		9	12	5	34	6	7	AF
		(UF-85—Fil. Cont.—Depress D)						
		(UF-85—Must show short on B, H)						
		(UF-85—Cathode Short Test—Depress B, H together)						
UF-89		9	18	15	37	6	7	AF
		(UF-89—Fil. Cont.—Depress D)						
UL-41		5	11	15	16	4	2	DJ
		(UL-41—Fil. Cont.—Depress F)						
		(UL-41—Must show short on A, B)						
		(UL-41—Cathode short test—Depress A, B together)						
UL-84		9	11	0	7	6	7	AEG
		(UL-84—Fil. Cont.—Depress D)						
		(UL-84—Must show short on E, G, H, J)						
		(UL-84—Screen Short Test—Depress E, G, together)						
		(UL-84—Grid Short Test—Depress H, J, together)						
UM-11	triode	1	8	31	10	1	1	D
"	eye	1	8	0	0	1	1	DEH
		(UM-11—Fil. Cont.—Depress B)						
		(UM-11—Eye test—Depress D, E, H—observe screen, then depress D, H—observe shadow)						
UM-35	triode	4	8	29	10	12	4	E
"	eye	4	8	0	0	12	4	*
		(UM-35—Fil. Cont.—Depress H)						
		*(UM-35—Eye Test—Full Screen—Depress B, E, C One shadow Depress-B, C., Second shadow Depress-E, C)						
UM-80	triode	8	12	30	10	8	6	A
"	eye	8	12	0	0	8	6	*ABEG
		(UM-80—Fil. Cont.—Depress C)						
		(UM-80—Must show short on B, E, G)						
		*(UM-80—Eye Test—Depress A, B, E, G for Full Screen —Depress—B, E, G for shadow)						
UY-11		1	11	0	9	11	1	D
		(UY-11—Fil. Cont.—Set control "B" at 11—Depress B)						
UY-41		3	10	0	2	11	2	J
		(UY-41—Fil. Cont.—Depress F)						

Tube	Section	A	B	C	D	E	F	Depress
PCL-84	triode	8	8	28	10	1	7	J
"	pentode	6	8	10	10	1	7	EG
	(PCL-84—Fil. Cont.—Depress D)							
PL-36	4	9	0	6	5	1	BCG	
	(PL-36—Must show short on B, C, F, H)							
	(PL-36—Cathode Short Test—Depress H, F together)							
	(PL-36—Screen Short Test—Depress B, C together)							
PY-80	1	8	0	0	11	7	G	
	(PY-80—Fil. Cont.—Depress D)							
PY-82	2	8	0	8	11	7	G	
	(PY-82—Fil. Cont.—Depress D)							
UAA-91	diode-1	1	12	0	28	10	7	J
"	diode-2	1	12	0	27	10	7	B
	(UAA-91—Fil. Cont.—Depress D)							
UABC-80	triode	6	9	34	12	6	7	G
"	diode-1	6	9	0	38	10	7	E
"	diode-2	6	9	0	43	10	7	J
"	diode-3	6	9	0	43	10	7	H
	(UABC-80—Fil. Cont.—Depress D)							
UBC-41	triode	2	8	23	47	10	4	J
"	diode-1	2	8	0	36	10	4	E
"	diode-2	2	8	0	36	10	4	D
	(UBC-41—Fil. Cont.—Depress H)							
UBC-81	triode	9	8	35	10	9	7	H
"	diode-1	9	8	0	35	10	7	F
"	diode-2	9	8	0	35	10	7	E
	(UBC-81—May show short on A, G)							
	(UBC-81—Fil. Cont.—Depress D)							
UBF-15	pentode	1	9	10	10	4	1	HE
"	diode-1	1	9	0	29	10	1	D
"	diode-2	1	9	0	29	10	1	C
	(UBF-15—Fil. Cont.—Depress B)							
UBF-80	pentode	9	12	14	37	8	7	HE
"	diode-1	9	12	0	33	10	7	F
"	diode-2	9	12	0	33	10	7	A
	(UBF-80—Fil. Cont.—Depress D)							
UBF-89	pentode	9	12	11	35	8	7	EH
"	diode-1	9	12	0	27	10	7	A
"	diode-2	9	12	0	27	10	7	F
	(UBF-89—Fil. Cont.—Depress D)							
UC-92	6	7	27	10	12	8	A	
	(UC-92—Fil. Cont.—Depress D)							
UCC-85	triode-1	1	9	25	11	1	7	E
"	triode-2	9	9	25	11	9	7	H
	(UCC-85—Fil. Cont.—Depress D)							
UCH-42	triode	3	8	30	10	3	2	B
"	hexode	5	8	0	35	4	2	JD
	(UCH-42—Fil. Cont.—Depress F)							
UCH-81	hept.	9	8	11	41	8	7	EH
"	triode	7	8	13	26	8	7	F
	(UCH-81—Fil. Cont.—Depress D)							
	(UCH-81—Heptode Section—OK above 1/4 scale)							

Tube	Section	A	B	C	D	E	F	Depress
2D21	1	6	0	4	1	6	F	
	(2D21—Must show short on E, J)							
	(2D21—Fil. Cont.—Depress C)							
	(2D21—Screen Short Test—Depress E-J together)							
2E5	triode	3	3	20	31	1	1	B
"	eye	7	3	0	0	2	1	D-B
	(2E5—See instructions for eye test)							
2E25	4	6	9	21	3	1	CG	
2E26	4	6	7	12	2	1	BG	
	(2E26—Must Show Short, on C, E, H)							
	(2E26—Cathode Short Test—Depress C-E-H- together)							
2E30	1	4	13	18	6	1	EF	
	(2E30—Fil. Cont.—Depress C, D, then BOTH C-D)							
2E31	3	1	25	47	10	8	HJ	
	(2E31—Fil. Cont.—Depress D)							
2E32	3	1	25	47	10	8	HJ	
	(2E32—Fil. Cont.—Depress D)							
2E35	3	1	25	48	10	8	HJ	
	(2E35—Fil. Cont.—Depress D)							
2E36	3	1	25	48	10	8	HJ	
	(2E36—Fil. Cont.—Depress D)							
2E41	pentode	4	1	25	48	10	7	HJ
"	diode	4	1	0	48	10	7	B
	(2E41—Fil. Cont.—Depress E)							
2E42	pentode	4	1	25	48	10	7	HJ
"	diode	4	1	0	48	10	7	B
	(2E42—Fil. Cont.—Depress E)							
2F7	triode	5	3	28	21	1	1	D
"	pentode	7	3	15	34	3	1	BC
2G5	triode	3	3	19	20	1	1	B
"	eye	7	3	0	0	2	1	D-B
	(2G5—See instructions for eye test)							
2G21	triode	2	1	29	48	10	7	H
"	heptode	2	1	27	48	10	7	DEJ
2G22	triode	2	1	29	48	10	7	H
"	heptode	2	1	27	48	10	7	DEJ
2T4	7	3	0	9	1	6	AJ	
	(2T4—Fil. Cont.—Depress C)							
	(2T4—Must show short on A, B, F, J)							
	(2T4—Grid Short Test—Depress B-F together)							
	(2T4—Plate Short Test—Depress A-J together)							
2W3	7	3	0	9	11	1	C	
	(2W3—Fil. Cont.—Depress F)							
2X2-879	7	3	0	21	1	1	G	
2X3	7	3	0	8	11	1	C	
	(2X3—Fil. Cont.—Depress F)							
2Y3	7	4	0	6	11	1	C	
	(2Y3—Fil. Cont.—Depress F)							
2Z2	7	3	0	11	11	1	B	
G2-S	diode-1	7	3	0	25	10	1	B
G4-S	diode-2	7	3	0	25	10	1	C

Tube	Section	A	B	C	D	E	F	Depress
3A8	diode	7	1	0	30	10	2	F
"	triode	4	1	20	50	1	2	E
"	pentode	7	1	25	40	3	2	BC
	(3A8—Fil. Cont.—Depress A, J, then BOTH A-J)							
3AF4		7	4	0	11	1	6	AJ
	(3AF4—Fil. Cont.—Depress C)							
	(3AF4—Must show short on A, B, F, J)							
	(3AF4—Grid short test—Depress B, F together)							
	(3AF4—Plate short test—Depress A, J together)							
3B5		4	1	14	15	3	4	BC
	(3B5—Fil. Cont.—Depress A, J, then both A-J)							
3B7	triode-1	3	1	17	18	1	6	B
"	triode-2	5	1	17	18	1	6	F
	(3B7—Fil. Cont.—Depress A, J, then both A-J)							
3C4		6	1	22	22	3	5	BC
	(3C4—Fil. Cont.—Depress A, J, then both A-J)							
3C5		4	1	19	23	3	4	BC
	(3C5—Fil. Cont.—Depress A, J, then both A-J)							
3D6		5	1	10	24	3	4	BC
	(3D6—Fil. Cont.—Depress A, J, then both A-J)							
3E6		5	1	14	36	3	3	BC
	(3E6—Fil. Cont.—Depress A, J, then both A-J)							
3LF4		5	1	15	19	3	4	BC
	(3LF4—Fil. Cont.—Depress A, J, then both A-J)							
3Q4		3	1	22	25	4	5	BDF
	(3Q4—Fil. Cont.—Depress A, J, then both A-J)							
	(3Q4—Must show short on B-F)							
	(3Q4—Plate Short Test—Depress B-F Together)							
3Q5		4	1	15	19	3	4	BC
	(3Q5—Fil. Cont.—Depress A, J, then both A-J)							
4A6	triode-1	3	2	25	22	1	4	B
"	triode-2	4	2	25	22	1	4	E
	(4A6—Fil. Cont.—Depress A, J, then both A-J)							
5A6		1	3	12	15	5	3	EH
	(5A6—Must show short on B, F)							
	(5A6—Fil. Cont.—Depress C, D, then both C-D)							
	(5A6—Suppressor Short Test—Depress B-F together)							
5AX4	plate-1	7	5	0	8	11	1	C
"	plate-2	7	5	0	8	11	1	E
	(5AX4—Fil. Cont.—Depress F)							
5AZ4	plate-1	7	5	0	8	11	8	D
"	plate-2	7	5	0	8	11	8	E
5B8	triode	9	5	17	11	1	6	B
"	pentode	5	5	3	34	6	6	FG
	(5B8—Fil. Cont.—Depress C)							
	(5B8—May show short on H)							
5R4GY	plate-1	7	5	0	6	11	1	C
"	plate-2	7	5	0	6	11	1	E
	(5R4GY—Fil. Cont.—Depress F)							

Tube	Section	A	B	C	D	E	F	Depress
EZ-90	plate-1	2	6	0	3	11	6	A
"	plate-2	2	6	0	3	11	6	F
	(EZ-90—Fil. Cont.—Depress C)							
GZ-30	plate-1	1	5	0	2	11	1	E
"	plate-2	1	5	0	2	11	1	C
	(GZ-30—Fil. Cont.—Depress F)							
GZ-34	plate-1	7	5	0	0	11	1	C
"	plate-2	7	5	0	0	11	1	E
	(GZ-34—Fil. Cont.—Depress F)							
HBC-90	triode	1	8	13	30	1	6	J
"	diode-1	1	8	0	30	10	6	E
"	diode-2	1	8	0	30	10	6	F
	(HBC-90—Fil. Cont.—Depress C)							
HF-93		1	8	9	40	6	6	EF
	(HF-93—Fil. Cont.—Depress C)							
HK-90	amp.	6	8	47	47	9	6	EJ
"	osc.	1	8	21	9	1	6	F
	(HK-90—Amp. Section OK above 1/3 scale)							
	(HK-90—Fil. Cont.—Depress C)							
HL-92		6	11	28	27	1	6	J
	(HL-92—Must show short on B, E)							
	(HL-92—Fil. Cont.—Depress C)							
	(HL-92—Grid Short Test—Depress B, E, together)							
HY-90		1	10	0	1	11	7	E
	(HY-90—Fil. Cont.—Depress D, then F, then both D-F)							
KT-88	triode	4	6	10	13	3	1	BC
PABC-80	diode-1	6	7	13	30	6	7	G
"	diode-2	6	7	0	33	10	7	E
"	diode-3	6	7	0	27	10	7	J
	(PABC-80—Fil. Cont.—Depress D)							
PCC-84	triode-1	5	7	12	10	5	7	G
"	triode-2	9	7	12	10	5	7	B
	(PCC-84—Fil. Cont.—Depress D)							
	(PCC-84—Must show short on A, F)							
	(PCC-84—Cathode Short Test (Triode 1 section) Depress A, F together)							
PCC-85	triode-1	1	7	25	10	1	7	E
"	triode-2	9	7	25	10	1	7	H
	(PCC-85—Fil. Cont.—Depress D)							
PCC-88	triode-1	1	6	5	10	1	6	E
"	triode-2	9	6	5	10	9	6	H
	(PCC-88—Fil. Cont.—Depress C)							
PCF-80	triode	7	7	10	47	10	7	H
"	pentode	9	7	10	47	10	7	BE
	(PCF-80—Fil. Cont.—Depress D)							
PCL-81	triode	8	8	32	10	5	7	A
"	pentode	7	8	9	10	5	7	EJ
	(PCL-81—Fil. Cont.—Depress D)							
	(PCL-81—Must show short on B, F)							
	(PCL-81—Cathode short test—Depress B, F together)							

Tube	Section	A	B	C	D	E	F	Depress
EL-86		9	6	0	7	9	6	AEFG
	(EL-86—Fil. Cont.—Depress D)							
	(EL-86—May show short on A, E, F, G, H, J)							
	(EL-86—Grid Short Test—Depress H, J, together)							
	(EL-86—Plate Short Test—Depress A, F together)							
	(EL-86—Screen Short Test—Depress E, G together)							
EL-90		6	6	50	30	1	6	E
	(EL-90—Fil. Cont.—Depress C)							
	(EL-90—Must show short on A-J)							
EL-91		1	6	18	22	9	7	EJ
	(EL-91—Fil. Cont.—Depress D)							
EL-95		1	5	0	29	6	6	EF
	(EL-95—Fil. Cont.—Depress C)							
	(EL-95—Grid Short Test—Depress A, J, together)							
EM-34	eye-1	7	6	0	0	3	1	DB
"	eye-2	7	6	0	0	3	1	DE
	(EM-34—See instructions for eye tests)							
EM-35	triode	3	6	13	25	8	1	B
"	eye-1	7	6	0	0	8	1	D-B
"	eye-2	7	6	0	0	8	1	D-E
	(EM-35—See instructions for eye test)							
EM-80	triode	8	6	19	20	2	7	A
"	eye	2	6	0	0	2	7	BEG-A
	(EM-80—Fil. Cont.—Depress D)							
	(EM-80—See instructions for eye test—Depress B-E-G together, then A)							
	(EM-80—May show short on B, E, G)							
EM-81	triode	8	6	24	28	3	7	A
"	eye	8	6	0	0	3	7	*
	*(EM-81—Depress B, F, G together, then A)							
	(EM-81—Fil. Cont.—Depress D)							
	(EM-81—Must show short on B, F, G)							
EY-51		1	6	0	13	12	1	G
	(EY-51—Connect 2 bottom leads to Octal Sockets Pins 1 and 2—Top lead connect to Grid Cap.)							
	(EY-51—Fil. Cont.—Depress H)							
EY-86		CAUTION—Pins 2, 3, 4, 6, 7, 8, 9 must be open circuited before inserting tube in socket.						
"		1	6	0	16	12	2	G
	(EY-86—Fil. Cont.—Depress D)							
EZ-11	plate-1	1	6	0	11	11	1	E
"	plate-2	1	6	0	11	11	1	D
	(EZ-11—Fil. Cont.—Depress B)							
EZ-35	plate-1	7	6	0	3	11	1	B
"	plate-2	7	6	0	3	11	1	D
EZ-80	diode-1	5	6	0	4	11	6	H
"	diode-2	5	6	0	4	11	6	A
	(EZ-80—Fil. Cont.—Depress C)							
EZ-81	diode-1	5	6	0	2	11	6	H
"	diode-2	5	6	0	2	11	6	A
	(EZ-81—Fil. Cont.—Depress C)							

Tube	Section	A	B	C	D	E	F	Depress
5T4	plate-1	7	5	0	4	11	1	C
"	plate-2	7	5	0	4	11	1	E
	(5T4—Fil. Cont.—Depress F)							
5V3	plate-1	7	5	0	4	11	1	C
"	plate-2	7	5	0	4	11	1	E
	(5V3—Fil. Cont.—Depress F)							
5V4	plate-1	7	5	0	2	11	1	C
"	plate-2	7	5	0	2	11	1	E
	(5V4—Fil. Cont.—Depress F)							
5W4	plate-1	7	5	0	9	11	1	C
"	plate-2	7	5	0	9	11	1	E
	(5W4—Fil. Cont.—Depress F)							
5X4	plate-1	7	5	0	5	11	4	B
"	plate-2	7	5	0	5	11	4	D
5Y4	plate-1	7	5	0	8	11	4	B
"	plate-2	7	5	0	8	11	4	D
5Z3	plate-1	7	5	0	5	11	1	B
"	plate-2	7	5	0	5	11	1	C
5Z4	plate-1	7	5	0	2	11	1	C
"	plate-2	7	5	0	2	11	1	E
	(5Z4—Fil. Cont.—Depress F)							
6A3		3	6	40	4	1	1	B
6A4-LA		3	6	24	20	4	1	BD
6A5		4	4	40	4	1	4	B
	(6A5—Fil. Cont.—Depress A, J, then both A-J)							
6A6	triode-1	3	6	35	7	1	1	B
"	triode-2	5	6	35	7	1	1	F
6A7	amp.	7	6	15	50	3	1	BC
"	osc.	5	6	31	31	1	1	D
6A7S	amp.	7	6	26	50	3	1	BC
"	osc.	5	6	31	31	1	1	D
6A8	amp.	7	6	15	50	3	1	BC
"	osc.	4	6	31	30	1	1	E
6AB5	triode	3	6	23	19	1	1	B
"	eye	7	6	0	0	2	1	D-B
	(6AB5—See instructions for Eye Test)							
6AB6		4	6	25	26	3	1	BC
6AB7		3	6	13	31	5	1	EF
6AC5		4	6	20	26	1	1	B
6AC6		4	6	31	10	3	1	BC
6AC7		3	6	4	34	5	1	EF
6AD5		2	6	12	33	1	1	D
6AD6	eye-1	7	6	0	0	3	1	D-C
"	eye-2	7	6	0	0	2	1	D-B
	(6AD6—See instructions for Eye Test)							
6AD7	triode	8	6	30	23	1	1	E
"	pentode	4	6	25	18	3	1	BC
6AE5		4	6	29	5	1	1	B
6AE6	triode-1	4	6	18	35	1	1	B
"	triode-2	4	6	18	38	1	1	C
6AE7	triode-1	5	6	35	6	1	1	B
"	triode-2	3	6	35	6	1	1	B
6AF4		7	6	0	11	1	6	AJ
	(6AF4—Fil. Cont.—Depress C)							
	(6AF4—Must Show Short on A, B, F, J)							
	(6AF4—Plate Short Test—Depress A-J Together)							
	(6AF4—Grid Short Test—Depress B-F Together)							

Tube	Section	A	B	C	D	E	F	Depress
6AF5		4	6	25	7	1	1	B
6AF6	eye-1	7	6	0	0	3	1	D-C
"	eye-2	7	6	0	0	2	1	D-B
	(6AF6—See instructions for Eye Test)							
6AG5	1	6	7	38	6	6	6	EF
	(6AG5—Fil. Cont.—Depress C)							
	(6AG5—Cathode Short Test—Depress both B-J)							
6AG7	3	6	12	25	5	1	1	EF
6AH4	8	6	26	6	11	1	1	D
6AH5	5	6	9	12	8	1	1	CH
6AH6	1	6	8	30	6	6	6	EF
	(6AH6—Fil. Cont.—Depress C)							
6AH7	triode-1	8	6	18	15	1	4	B
"	triode-2	4	6	18	15	1	4	E
6AJ4	7	6	0	22	1	4	4	D
	(6AJ4—Must show short on B, C, E, G, H)							
	(6AJ4—Grid Short Test—Depress B, C, E, G, H Together)							
6AJ5	1	6	10	29	6	6	6	EF
	(6AJ5—Must show short on B-J)							
	(6AJ5—Fil. Cont.—Depress C)							
	(6AJ5—Cathode Short Test—Depress B-J Together)							
6AJ7	3	6	4	34	5	1	1	EF
6AK4	8	6	26	7	1	5	5	F
	(6AK4—Fil. Cont.—Depress B)							
6AK6	1	6	22	23	6	6	6	EF
	(6AK6—Fil. Cont.—Depress C)							
6AK7	3	6	12	25	5	1	1	EF
6AL6	4	6	9	12	3	1	1	CG
*6AL7	4	6	7	0	7	1	1	B
	*(6AL7—See FM/AM Eye Tube Test at end of Supplement)							
6AM4	7	6	0	32	1	4	4	D
	(6AM4—Must show short on B, C, E, G, H)							
	(6AM4—Grid Short Test—Depress B, C, E, G, H Together)							
6AM8	pentode	9	6	1	39	2	6	BE
"	diode	7	6	0	25	10	6	F
	(6AM8—Fil. Cont.—Depress C)							
6AN5	1	6	7	20	6	6	6	EF
	(6AN5—Fil. Cont.—Depress C)							
	(6AN5—Must Show Short on B-J)							
	(6AN5—Cathode Short Test—Depress B-J together)							
6AQ6	triode	1	6	13	30	1	6	J
"	diode-1	1	6	0	30	10	6	E
"	diode-2	1	6	0	30	10	6	F
	(6AQ6—Fil. Cont.—Depress C)							
6AQ7	triode	3	6	19	27	1	4	D
"	diode-1	3	6	0	30	10	4	B
"	diode-2	3	6	0	30	10	4	H
6AR5	1	6	26	19	6	6	6	EF
	(6AR5—Fil. Cont.—Depress C)							
6AR6	1	6	10	12	4	4	4	BD
	(6AR6—Fil. Cont.—Depress E)							
6AR8	sect.-1	5	6	20	21	1	7	BG
"	sect.-2	5	6	20	21	1	7	BF
	(6AR8—Fil. Cont.—Depress D)							

Tube	Section	A	B	C	D	E	F	Depress
EF-86		7	6	17	32	8	6	EH
	(EF-86—Fil. Cont.—Depress C)							
	(EF-86—Must show short on A, J)							
EF-89	9	6	16	10	6	6	6	AF
	(EF-89—Fil. Cont.—Depress C)							
	(EF-89—May show short on E, H)							
	(EF-89—Tube OK above diodes arrow)							
EF-91	1	6	8	37	9	7	7	EJ
	(EF-91—Fil. Cont.—Depress D)							
EF-92	1	6	31	10	5	7	7	EJ
	(EF-92—Fil. Cont.—Depress D)							
EF-93	1	6	9	40	6	6	6	EF
	(EF-93—Fil. Cont.—Depress C)							
EF-94	1	6	10	38	6	6	6	EF
	(EF-94—Fil. Cont.—Depress C)							
EF-97	1	6	0	6	1	6	6	EF
	(EF-97—Fil. Cont.—Depress C)							
EF-98	1	6	0	6	1	6	6	EF
	(EF-98—Fil. Cont.—Depress C)							
EF-804	7	6	19	30	6	6	6	AF
	(EF-804—Fil. Cont.—Depress C)							
	(EF-804—May show short on E, J)							
EH-90	amp.	6	6	39	47	9	6	EJ
"	osc.	1	6	26	10	1	6	F
	(EH-90—Amp. Section—OK above 1/3 scale)							
	(EH-90—Fil. Cont.—Depress C)							
EK-90	amp.	6	6	47	47	9	6	EJ
"	osc.	1	6	21	9	1	6	F
	(EK-90—Amp. Section OK above 1/3 scale)							
	(EK-90—Fil. Cont.—Depress C)							
EL-11	1	6	18	16	5	1	1	DE
	(EL-11—Fil. Cont.—Depress B)							
EL-12	1	6	12	16	5	8	8	DE
	(EL-12—Fil. Cont.—Depress J)							
EL-32	7	6	24	10	2	1	1	BC
EL-33	4	6	23	15	3	1	1	BC
EL-34	4	6	17	15	3	1	1	BC
EL-37	4	6	17	16	3	1	1	BC
EL-38	4	5	15	16	3	1	1	CG
*EL-41	5	6	14	15	4	4	4	DJ
	(EL-41—Must show short on A, B)							
	(EL-41—Fil. Cont.—Depress H)							
	(EL-41—Cathode Short Test—Depress A, B, together)							
EL-84	9	6	0	23	7	7	7	AG
	(EL-84—Fil. Cont.—Depress D)							
	(EL-84—Must show short on H, J)							
	(EL-84—Grid Short Test—Depress H, J together)							
EL-85	8	6	0	30	7	7	7	AG
	(EL-85—Fil. Cont.—Depress D)							
	(EL-85—Must show short on H-J-E-F)							
	(EL-85—Grid short test—Depress H-J together)							
	(EL-85—Suppressor short test—Depress E-F together)							

Tube	Section	A	B	C	D	E	F	Depress
ECH-35	triode	4	6	31	10	4	1	E
"	hexode	7	6	16	10	12	1	BC
ECH-42	triode	3	6	30	10	3	4	B
"	hexode	5	6	0	42	4	4	DJ
	(ECH-42—Fil. Cont.—Depress H)							
ECH-81	amp.	1	6	11	32	8	6	EH
"	osc.	9	6	26	10	7	6	H
"	triode	7	6	25	13	7	6	F
	(ECH-81—Fil. Cont.—Depress C)							
	(ECH-81—Amp. Section OK above 1/3 scale)							
ECH-83	amp.	1	6	8	48	8	6	EH
"	osc.	9	6	27	10	7	6	H
"	triode	7	6	27	10	7	6	F
	(ECH-83—Fil. Cont.—Depress C)							
ECL-11	triode	1	6	28	49	10	1	E
"	tetrode	4	6	15	10	1	1	CH
	(ECL-11—Fil. Cont.—Depress B)							
ECL-80	pent.	7	6	0	5	6	7	EF
"	triode	9	6	3	10	6	7	HJ
	(ECL-80—Fil. Cont.—Depress D)							
ECL-82	triode	8	6	32	11	8	7	G
"	pent.	2	6	23	17	1	7	AE
	(ECL-82—Fil. Cont.—Depress D)							
EF-12	1	6	28	10	4	1	DE	
	(EF-12—Fil. Cont.—Depress B)							
EF-14	5	6	2	10	12	1	DH	
	(EF-14—Fil. Cont.—Depress B)							
EF-15	1	6	8	10	1	1	DE	
	(EF-15—Fil. Cont.—Depress B)							
EF-39	7	6	29	10	2	1	BC	
EF-40	4	6	15	34	5	2	EJ	
	(EF-40—Fil. Cont.—Depress F)							
	(EF-40—May show short on A-B)							
	(EF-40—Cathode short test—Depress A-B together)							
*EF-41	5	6	15	33	4	2	DJ	
	(EF-41—Fil. Cont.—Depress F)							
	(EF-41—May show short on A, B)							
EF-42	5	6	37	10	11	2	DJ	
	(EF-42—Fil. Cont.—Depress F)							
EF-80	9	6	5	36	6	6	AF	
	(EF-80—Fil. Cont.—Depress C)							
	(EF-80—Must show short on B, H)							
	(EF-80—Cathode Short Test—Depress B, H together)							
EF-83	7	6	0	46	8	7	HE	
	(EF-83—Fil. Cont.—Depress D)							
	(EF-83—May show short on A, J)							
EF-85	9	6	5	35	6	6	AF	
	(EF-85—Fil. Cont.—Depress C)							
	(EF-85—Must show short on B, H)							
	(EF-85—Cathode Short Test—Depress B, H together)							

Tube	Section	A	B	C	D	E	F	Depress
6AS6	1	6	5	41	6	6	6	EF
	(6AS6—Fil. Cont.—Depress C)							
	(6AS6—Output OK above 1/3 scale)							
6B4	input	4	6	40	4	1	1	B
6B5	output	4	6	20	25	1	1	C
"	triode	4	6	20	27	3	1	BC
6B6	triode-1	7	6	12	37	1	1	B
"	diode-1	7	6	0	30	10	1	C
"	diode-2	7	6	0	30	10	1	D
6B7	pentode	7	6	26	31	3	1	BC
"	diode-1	7	6	0	35	10	1	D
"	diode-2	7	6	0	35	10	1	E
6B8	pentode	7	6	25	31	5	1	BE
"	diode-1	7	6	0	30	10	1	C
"	diode-2	7	6	0	30	10	1	D
6BA5	2	6	19	24	4	5	DH	
	(6BA5—Fil. Cont.—Depress C)							
6BD5	8	6	40	5	7	1	DF	
6BD6	1	6	15	33	6	6	6	EF
	(6BD6—Fil. Cont.—Depress C)							
6BF5	1	6	0	12	6	6	6	EF
	(6BF5—Must show short on A-J)							
	(6BF5—Fil. Cont.—Depress C)							
	(6BF5—Grid Short Test—Depress A-J Together)							
6BG7	triode-1	1	6	7	33	11	5	F
"	triode-2	9	6	7	33	11	5	H
	(6BG7—Fil. Cont.—Depress B)							
6BJ7	diode-1	2	6	0	25	10	6	F
"	diode-2	2	6	0	25	10	6	E
"	diode-3	2	6	0	25	10	6	J
	(6BJ7—Fil. Cont.—Depress C)							
	(6BJ7—May show short on B)							
6BN7	triode-1	1	6	29	5	1	6	G
"	triode-2	9	6	10	27	1	6	H
	(6BN7—Fil. Cont.—Depress C)							
6BX6	9	6	5	36	6	6	6	AF
	(6BX6—Fil. Cont.—Depress C)							
	(6BX6—Must show short on B, H)							
	(6BX6—Cathode short test—Depress B, H together)							
6BY5	plate-1	7	6	0	3	11	1	D
"	plate-2	7	6	0	3	11	1	C
6C5	4	6	15	18	1	1	1	B
6C6	7	6	11	40	3	1	1	BC
6C7	triode	7	6	25	15	1	1	B
"	diode-1	7	6	0	35	10	1	D
"	diode-2	7	6	0	35	10	1	E
6C8	triode-1	7	6	31	11	1	1	B
"	triode-2	4	6	31	11	1	1	E
6CG8	triode	8	6	19	11	1	6	J
"	pentode	7	6	6	38	1	6	AE
	(6CG8—Fil. Cont.—Depress C)							
	(6CG8—Must show short on B, F)							
	(6CG8—Cathode short test—Depress B, F together)							
6D4	7	6	0	4	1	6	J	
	(6D4—Fil. Cont.—Depress C)							

Tube	Section	A	B	C	D	E	F	Depress
6D5		4	6	38	6	1	1	B
6D6		7	6	17	33	3	1	BC
6D7		7	6	11	39	3	1	BC
6D8	amp.	7	6	15	45	3	1	BC
"	osc.	4	6	33	35	1	1	E
6DY7	pent.-1	4	6	15	23	3	1	CE
"	pent.-2	8	6	15	23	3	1	BC
6DZ7	pent.-1	4	6	22	17	3	1	CE
"	pent.-2	8	6	22	17	3	1	BC
6E5	triode	3	6	23	24	1	1	B
"	eye	7	6	0	0	2	1	D-B
(6E5—See Instructions for Eye Test)								
6E6	triode-1	3	6	30	9	1	1	B
"	triode-2	5	6	30	9	1	1	F
6E7		7	6	14	33	3	1	BC
6F5		7	6	12	33	1	1	C
6F6		4	6	25	18	3	1	BC
6F7	triode	5	6	28	21	1	1	D
"	pentode	7	6	15	34	3	1	BC
6F8	triode-1	7	6	15	16	1	1	B
"	triode-2	4	6	15	16	1	1	E
6G5	triode	3	6	19	27	1	1	B
"	eye	7	6	0	0	2	1	DB
(6G5—See Instructions for Eye Test)								
6G6		4	6	22	23	3	1	BC
6G7S	plate-1	7	6	0	5	11	1	D
"	plate-2	7	6	0	5	11	1	F
"	pentode	7	6	28	20	3	1	BC
(6G7S—Show short on C)								
6H4		7	6	0	43	10	1	C
6H5	triode	3	6	19	27	1	1	B
"	eye	7	6	0	0	2	1	DB
(6H5—See Instructions for Eye Test)								
6H6	diode-1	7	6	0	25	10	1	B
"	diode-2	7	6	0	25	10	1	D
6H7S	triode	7	6	25	39	1	1	E
"	pentode	4	6	25	21	3	1	BC
6J4		8	6	0	18	1	6	J
(6J4—Fil. Cont.—Depress C)								
(6J4—Must show short on A, E, F, individually)								
(6J4—Grid Short Test—Depress A, E, F, together)								
6J7		7	6	10	39	3	1	BC
6J8	heptode	7	6	7	50	3	1	BC
"	triode	4	6	20	18	1	1	E
(6J8—Heptode OK above 1/3 scale)								
6K5		7	6	11	31	1	1	B
6K7		7	6	16	33	3	1	BC
6K8	hexode	7	6	9	50	3	1	BC
"	triode	4	6	28	15	1	1	E
(6K8—Hexode OK above 1/3 scale)								
6L5		4	6	16	16	1	1	B
6L7	input	7	6	25	11	1	1	C
"	output	4	6	12	50	3	1	BC
(6L7—Output OK above 1/3 scale)								

Tube	Section	A	B	C	D	E	F	Depress
EC-97		2	6	13	10	1	7	E
(EC-97—Fil. Cont.—Depress D)								
(EC-97—Must show short on A, J)								
(EC-97—Cathode short test—Depress A, J together)								
ECC-33	triode-1	3	6	29	10	3	9	D
"	triode-2	8	6	29	10	3	9	J
(ECC-33—Fil. Cont.—Depress F)								
ECC-34	triode-1	3	6	25	10	3	9	D
"	triode-2	8	6	25	10	3	9	J
(ECC-34—Fil. Cont.—Depress F)								
ECC-35	triode-1	3	6	33	10	3	9	D
"	triode-2	8	6	33	10	3	9	J
(ECC-35—Fil. Cont.—Depress F)								
ECC-40	triode-1	5	6	28	10	5	2	D
"	triode-2	2	6	28	10	2	2	J
(ECC-40—Fil. Cont.—Depress F)								
ECC-81	triode-1	1	6	29	10	2	3	E
"	triode-2	9	6	29	10	2	3	H
(ECC-81—Fil. Cont.—Depress C, D, then both C-D)								
ECC-82	triode-1	1	6	27	10	2	3	E
"	triode-2	9	6	27	10	2	3	H
(ECC-82—Fil. Cont.—Depress C, D, then both C-D)								
ECC-83	triode-1	1	6	10	38	2	3	E
"	triode-2	9	6	10	38	2	3	H
(ECC-83—Fil. Cont.—Depress C, D, then both C-D)								
ECC-84	triode-1	5	6	12	10	5	7	G
"	triode-2	9	6	12	10	5	7	B
(ECC-84—Fil. Cont.—Depress D)								
(ECC-84—Must show short on A, F)								
(ECC-84—Cathode Short Test (Triode 1 section) Depress A, F together)								
ECC-85	triode-1	1	6	20	12	4	6	E
"	triode-2	9	6	21	12	4	6	H
(ECC-85—Fil. Cont.—Depress C)								
ECC-86	triode-1	1	6	0	8	1	7	E
"	triode-2	9	6	0	8	1	7	H
(ECC-86—Fil. Cont.—Depress D)								
ECC-88	triode-1	1	6	7	8	3	7	E
"	triode-2	9	6	7	8	3	7	H
(ECC-88—Fil. Cont.—Depress D)								
ECC-91	triode-1	5	6	16	13	7	6	B
"	triode-2	6	6	16	13	7	6	A
(ECC-91—Fil. Cont.—Depress C)								
ECC-12	*triode	3	6	10	37	10	1	D
"	*pentode	1	6	10	38	10	1	HE
(ECF-12—Fil. Cont.—Depress B)								
*(ECF-12—OK above 1/3 scale)								
ECC-80	triode	7	5	13	10	6	7	H
"	pent.	9	5	13	20	2	7	BE
(ECF-80—Fil. Cont.—Depress D)								
ECC-82	triode	7	6	34	7	1	6	H
"	pent.	9	6	32	8	1	6	BE
(ECF-82—Fil. Cont.—Depress C)								

Tube	Section	A	B	C	D	E	F	Depress
*EAF-42	pent.	5	6	12	35	4	2	DJ
"	diode	5	6	0	32	10	2	B
		(EAF-42—Fil. Cont.—Depress F)						
EB-41	diode-1	1	6	0	27	10	2	E
"	diode-2	1	6	0	27	10	2	C
		(EB-41—Fil. Cont.—Depress F)						
EB-91	diode-1	7	6	0	26	10	6	J
"	diode-2	7	6	0	26	10	6	B
		(EB-91—Fil. Cont.—Depress C)						
EBC-11	triode	1	6	28	10	1	1	E
"	diode-1	1	6	0	29	10	1	D
"	diode-2	1	6	0	29	10	1	C
		(EBC-11—Fil. Cont.—Depress B)						
EBC-33	triode	7	6	31	10	7	1	B
"	diode-1	7	6	0	27	10	1	D
"	diode-2	7	6	0	27	10	1	C
EBC-41	triode	2	6	20	23	4	4	J
"	diode-1	2	6	0	31	10	4	D
"	diode-2	2	6	0	31	10	4	E
		(EBC-41—Fil. Cont.—Depress H)						
EBC-81	triode	9	6	36	10	11	7	H
"	diode-1	9	6	0	37	10	7	F
"	diode-2	9	6	0	34	10	7	E
		(EBC-81—Fil. Cont.—Depress D) EBC-81—May show short on A-G)						
EBC-90	triode	1	6	13	30	1	6	J
"	diode-1	1	6	0	30	10	6	E
"	diode-2	1	6	0	30	10	6	F
		(EBC-90—Fil. Cont.—Depress C)						
EBC-91	triode	1	6	12	31	1	6	J
"	diode-1	1	6	0	35	10	6	F
"	diode-2	1	6	0	35	10	6	E
		(EBC-91—Fil. Cont.—Depress C)						
EBF-15	pentode	1	6	9	10	4	1	HE
"	diode-1	1	6	0	28	10	1	D
"	diode-2	1	6	0	28	10	1	C
		(EBF-15—Fil. Cont.—Depress B)						
EBF-80	pent.	9	6	17	34	8	7	EH
"	diode-1	11	6	0	31	10	7	A
"	diode-2	11	6	0	29	10	7	F
		(EBF-80—Fil. Cont.—Depress D)						
EBF-83	pent.	9	6	15	33	8	6	EH
"	diode-1	9	6	0	38	10	6	A
"	diode-2	9	6	0	38	10	6	F
		(EBF-83—Fil. Cont.—Depress C)						
EBF-89	pent.	9	6	15	33	8	6	EH
"	diode-1	9	6	0	32	10	6	A
"	diode-2	9	6	0	32	10	6	F
		(EBF-89—Fil. Cont.—Depress C)						
EC-92		6	6	30	10	2	6	A
		(EC-92—Fil. Cont.—Depress C)						

Tube	Section	A	B	C	D	E	F	Depress
6N4		7	6	0	18	7	6	E
		(6N4—Fil. Cont.—Depress C) (6N4—Must show short on A, B, F, and J) (6N4—Grid Short Test—Depress A-J Together) (6N4—Cathode Short Test—Depress B-F Together)						
6N5	triode	3	6	24	20	1	1	B
"	eye	7	6	0	0	2	1	D-B
		(6N5—See instructions for Eye Test)						
6N6	input	4	6	20	25	1	1	C
"	output	4	6	20	28	3	1	BC
6N7	triode-1	3	6	35	7	1	1	B
"	triode-2	4	6	35	7	1	1	E
6P5	triode	4	6	15	17	1	1	B
6P7	triode	1	6	28	22	1	1	E
"	pentode	7	6	15	36	4	1	CD
		(6P7—Fil. Cont.—Depress B)						
6Q5	triode	7	6	0	2	11	1	BD
6Q7	triode	7	6	13	30	1	1	B
"	diode-1	7	6	0	30	10	1	C
"	diode-2	7	6	0	30	10	1	D
6R6	triode	7	6	17	34	2	1	BD
6R7	triode	7	6	18	15	1	1	B
"	diode-1	7	6	0	30	10	1	C
"	diode-2	7	6	0	30	10	1	D
6S7	triode	7	6	17	32	3	1	BC
6S8	triode	7	6	12	37	1	4	E
"	diode-1	7	6	0	30	10	4	B
"	diode-2	7	6	0	30	10	4	C
"	diode-3	7	6	0	30	10	4	H
		(6S8—May show short on J)						
6SB7	amp.	3	6	50	32	6	1	BF
"	osc.	4	6	22	7	1	1	C
		(6SB7—Amp. section OK above 1/3 scale)						
6SD7		3	6	7	36	5	1	EF
6SF5		2	6	12	32	1	4	D
6SF7	pentode	9	6	20	32	3	4	CE
"	diode	9	6	0	25	10	4	D
6SG7		3	6	9	38	5	1	EF
		(6SG7—Cathode Short Test—Depress both B-D)						
6SH7		3	6	10	39	5	1	EF
		(6SH7—Cathode Short Test—Depress both B-D)						
6SR7	triode	9	6	18	15	1	4	E
"	diode-1	7	6	0	30	10	4	D
"	diode-2	7	6	0	30	10	4	C
6ST7	triode	3	6	17	30	5	1	EF
6ST7	triode	9	6	20	15	1	4	E
"	diode-1	7	6	0	35	10	4	D
"	diode-2	7	6	0	35	10	4	C
6SU7	triode-1	8	6	14	30	1	4	J
"	triode-2	3	6	14	30	1	4	D
6SV7	pentode	9	6	7	40	3	4	CE
"	diode	9	6	0	25	10	4	D
6SZ7	triode	9	6	13	30	1	4	E
"	diode-1	9	6	0	30	10	4	C
"	diode-2	9	6	0	30	10	4	D

Tube	Section	A	B	C	D	E	F	Depress
6T4		7	6	0	9	1	6	AJ
	(6T4—Fil. Cont.—Depress C)							
	(6T4—Must Show Short on A, B, F, J)							
	(6T4—Plate Short Test—Depress A-J Together)							
	(6T4—Grid Short Test—Depress B-F Together)							
6T5	triode	3	6	19	27	1	1	B
"	eye	7	6	0	0	2	1	D-B
	(6T5—See instructions for Eye Test)							
6T6M		7	6	7	30	3	1	BC
6T7	triode	7	6	12	35	1	1	B
"	diode-1	7	6	0	35	10	1	C
"	diode-2	7	6	0	35	10	1	D
6U4		7	6	0	4	1	9	D
	(6U4—Fil. Cont.—Depress F)							
6U5	triode	3	6	19	27	1	1	B
"	eye	7	6	0	0	2	1	D-B
	(6U5—See instructions for Eye Test)							
6U6		4	6	6	11	3	1	BC
6U7		7	6	17	33	3	1	BC
6U8	triode	7	6	18	11	1	6	H
"	pentode	9	6	12	37	2	6	BE
	(6U8—Fil. Cont.—Depress C)							
6V3		8	6	0	4	1	6	AJ
	Note:—Pin No. 9 must be open circuited—use Precision G-109 adapter and connect grid cap lead to tube, instead of side stud on adapter.							
	(6V3—Fil. Cont.—Depress C)							
	(6V3—Plate Short Test—Depress A-J Together)							
6V7	triode	7	6	25	12	1	1	B
"	diode-1	7	6	0	30	10	1	C
"	diode-2	7	6	0	30	10	1	D
6V8	triode	5	6	6	43	1	6	H
"	diode-1	7	6	0	32	10	6	G
"	diode-2	7	6	0	25	10	6	A
"	diode-3	7	6	0	25	10	6	J
	(6V8—Fil. Cont.—Depress C)							
6W5	plate-1	7	6	0	2	11	1	B
"	plate-2	7	6	0	2	11	1	D
6W7		7	6	13	33	3	1	BC
6Y5	plate-1	7	6	0	3	11	1	C
"	plate-2	7	6	0	3	11	1	E
6Y6		4	6	5	9	3	1	BC
6Y7	triode-1	3	6	33	9	1	1	B
"	triode-2	4	6	33	9	1	1	E
6Z3		7	6	0	3	11	1	B
6Z4	plate-1	7	6	0	4	11	1	B
"	plate-2	7	6	0	4	11	1	C
6Z5	plate-1	7	6	0	3	11	1	C
"	plate-2	7	6	0	3	11	1	E
	(6Z5—Fil. Cont.—Depress A, B, then both A-B)							

Tube	Section	A	B	C	D	E	F	Depress
DL-11		1	1	20	27	5	1	DE
	(DL-11—Fil. Cont.—Depress B)							
	(DL-11—Must show short on F)							
DL-33		4	1	15	19	3	4	BC
	(DL-33—Fil. Cont.—Depress A, J, then both A-J)							
DL-35		4	1	19	23	3	1	BC
DL-41		5	1	15	23	4	2	JD
	(DL-41—Fil. Cont.—Depress A, F, then both A, F)							
	(DL-41—May show short on B)							
DL-92		3	1	20	25	4	5	BDF
	(DL-92—Must show short on B-F)							
	(DL-92—Fil. Cont.—Depress A, J, then both A-J)							
	(DL-92—Plate Short Test—Depress B, F, together)							
DL-94		6	1	22	25	3	5	BC
	(DL-94—Fil. Cont.—Depress A, J, then both A-J)							
DL-96		6	1	22	22	3	5	BC
	(DL-96—Fil. Cont.—Depress A, J, then both A-J)							
DM-70	eye	8	1	0	0	11	6	HF
	(DM-70—Fil. Cont.—Depress C)							
	(DM-70—See instructions for eye test)							
DM-71	eye	8	1	0	0	11	6	HF
	(DM-71—Fil. Cont.—Depress C)							
	(DM-71—See instructions for eye test)							
DY-80		1	1	0	18	12	2	G
	(DY-80—Fil. Cont.—Depress D)							
E-88-CC	triode-1	1	6	7	8	3	7	E
"	triode-2	9	6	7	8	3	7	H
	(E-88-CC—Fil. Cont.—Depress D)							
E-180-F		9	6	13	27	7	7	AG
	(E-180-F—Fil. Cont.—Depress D)							
	(E-180-F—Must show short on B-H)							
	(E-180-F—Cathode Short Test—Depress B-H together)							
EAA-11	diode-1	1	6	0	26	10	1	D
"	diode-2	1	6	0	26	10	1	E
	(EAA-11—Fil. Cont.—Depress B)							
	(EAA-11—Make Special Adapter)							
EAA-91	diode-1	7	6	0	25	10	6	J
"	diode-2	7	6	0	25	10	6	B
	(EAA-91—Fil. Cont.—Depress C)							
EAA-901	diode-1	7	6	0	25	10	6	J
"	diode-2	7	6	0	25	10	6	B
	(EAA-901—Fil. Cont.—Depress C)							
EABC-80	triode	6	6	11	38	2	6	G
"	diode-1	6	6	0	22	10	6	E
"	diode-2	6	6	0	22	10	6	H
"	diode-3	6	6	0	22	10	6	J
	(EABC-80—Fil. Cont.—Depress C)							
EAC-91	triode	6	6	30	10	8	7	J
"	diode	6	6	0	26	10	7	A
	(EAC-91—Fil. Cont.—Depress D)							

* Denotes tubes with special European 8 pin miniature basing. The PRECISION No. G-118 adapter, designed especially for these tubes, is available from your PRECISION Distributor or directly from the factory service department at the net price of \$3.95.

Tube	Section	A	B	C	D	E	F	Depress
DA-90	diode	7	1	0	30	10	1	BF
	(DA-90—Must show short on B, E, F)							
	(DA-90—Plate Short Test—Depress B, F, together)							
DAC-32	triode	7	1	25	46	11	1	B
"	diode	7	1	0	35	10	1	D
DAF-91	pent.	6	1	20	35	4	1	DE
"	diode	7	1	0	35	10	1	C
DAF-96	pent.	6	1	19	42	11	1	DE
"	diode	2	1	0	37	10	1	C
	(DAF-96—Pentode Section OK above 1/3 scale)							
DC-90		8	1	0	30	7	1	BC
	(DC-90—Must show short on B, C, E, F)							
	(DC-90—Grid Short Test—Depress E, F, together)							
	(DC-90—Plate Short Test—Depress B, C together)							
DC-96		5	1	0	23	12	1	BC
	(DC-96—Must show short on B, C, E, F)							
	(DC-96—Plate Short Test—Depress B-C together)							
	(DC-96—Grid Short Test—Depress E-F together)							
DCC-90	triode-1	3	1	20	14	1	6	B
"	triode-2	5	1	20	14	1	6	F
	(DCC-90—Fil. Cont.—Depress A, J, then both A-J)							
DF-11		1	1	12	43	5	1	DE
	(DF-11—Fil. Cont.—Depress B)							
	(DF-11—Must show short on F)							
DF-33		7	1	20	41	3	1	BC
DF-91		6	1	22	37	3	1	BC
	(DF-91—Fil. Cont.—Depress A, E, then both A-E)							
DF-92		6	1	17	37	3	1	BC
	(DF-92—Must show short on E)							
	(DF-92—Fil. Cont.—Depress A, E, then both A-E)							
DF-96		6	1	25	34	3	1	BC
	(DF-96—Fil. Cont.—Depress A, E, then both A-E)							
DF-97		6	1	22	41	3	1	BC
	(DF-97—Fil. Cont.—Depress A, E, then both A-E)							
DF-904		6	1	19	40	3	1	BC
	(DF-904—Fil. Cont.—Depress A, E, then both A-E)							
DK-32	amp.	7	1	20	44	3	1	BC
"	osc.	4	1	32	47	1	1	E
DK-91	amp.	3	1	50	46	6	1	BF
"	osc.	4	1	10	39	11	1	C
	(DK-91—Amp. Section OK above 1/4 scale)							
	(DK-91—Fil. Cont.—Depress A, E, then both A-E)							
DK-92	*amp.	3	1	0	37	11	1	BCF
"	*osc.	4	1	33	50	3	1	CE
	*(DK-92—OK above 1/3 on Meter Scale)							
DK-96	amp.	3	1	45	49	6	1	BEF
"	osc.	4	1	0	23	5	1	C
	(DK-96—Amp. Section OK above 1/3 scale)							

Tube	Section	A	B	C	D	E	F	Depress
6Z6	plate-1	7	6	0	4	11	1	B
"	plate-2	7	6	0	4	11	1	D
6Z7	triode-1	3	6	33	11	1	1	B
"	triode-2	4	6	33	11	1	1	E
6ZY5	plate-1	7	6	0	4	11	1	B
"	plate-2	7	6	0	4	11	1	D
7A4		5	6	15	15	1	1	B
7A5		5	6	8	11	3	1	BC
7A6	diode-1	4	6	0	25	10	1	C
"	diode-2	4	6	0	25	10	1	E
7A7		5	6	16	33	3	1	BC
7A8	amp.	5	6	20	50	7	1	BG
"	osc.	4	6	25	50	1	1	C
7AB7		7	6	15	31	9	4	CJ
	(7AB7—Fil. Cont.—Depress B)							
	(7AB7—Cathode Short Test—Depress A-D-E together)							
7AD7		5	6	4	30	3	1	BC
7AF7	triode-1	7	6	15	15	1	1	E
"	triode-2	4	6	15	15	1	1	C
7AG7		5	6	8	38	3	1	BC
7AH7		5	6	10	35	3	1	BC
7AJ7		5	6	13	36	3	1	BC
7AK7		5	6	4	29	3	1	BC
7AN7	triode-1	5	7	12	10	5	7	G
"	triode-2	9	7	12	10	5	7	B
	(7AN7—Fil. Cont.—Depress D)							
	(7AN7—Must Show Short on A, F)							
	(7AN7—Cathode Short Test—(Triode 1 Section)—Depress A, F Together)							
7B4		5	6	12	33	1	1	B
7B5		5	6	26	19	3	1	BC
7B6	triode	3	6	12	37	1	1	B
"	diode-1	3	6	0	30	10	1	G
"	diode-2	3	6	0	30	10	1	E
	(7B6—Cathode Short Test—Depress both D-F)							
7B7		5	6	19	32	3	1	BC
7B8	amp.	5	6	15	50	7	1	BG
"	osc.	4	6	31	28	1	1	C
7C4		7	6	0	46	10	1	D
7C5		5	6	11	14	3	1	BC
7C6	triode	3	6	20	33	1	1	B
"	diode-1	3	6	0	30	10	1	G
"	diode-2	3	6	0	30	10	1	E
	(7C6—Must show short on D and F)							
	(7C6—Cathode Short Test—Depress D-F together)							
7C7		5	6	15	33	3	1	BC
7E5		7	6	0	28	1	8	CF
	(7E5—Cathode Short Test—Depress both D-E)							
	(7E5—Grid Short Test—Depress both G-J)							
	(7E5—Plate Short Test—Depress both C-F)							
7E6	diode-1	7	6	0	25	10	1	G
"	diode-2	7	6	0	25	10	1	E
"	triode	3	6	18	15	1	1	B
	(7E6—Must show short on D-F)							
	(7E6—Cathode Short Test—Depress D-F together)							
7E7	diode-1	7	6	0	25	10	1	C
"	diode-2	7	6	0	25	10	1	D
"	pentode	5	6	17	34	7	1	BG

Tube	Section	A	B	C	D	E	F	Depress
7F7	triode-1	4	6	14	31	1	1	C
"	triode-2	7	6	14	31	1	1	E
7F8	triode-1	1	6	13	14	1	8	E
"	triode-2	9	6	13	14	1	8	C
(7F8—Fil. Cont.—Depress F)								
7G7		5	6	5	40	3	1	BC
7G8	sect.-1	7	6	23	27	3	1	CF
"	sect.-2	4	6	23	27	3	1	BC
7H7		5	6	11	35	3	1	BC
7J7	triode	4	6	20	18	1	1	C
"	hexode	5	6	6	45	7	1	BG
(7J7—Hexode OK above 1/3 scale)								
7K7	triode	4	6	14	30	1	1	C
"	diode-1	4	6	0	25	10	1	E
"	diode-2	4	6	0	25	10	1	G
7L7		5	6	6	40	3	1	BC
7N7	triode-1	4	6	15	16	1	1	C
"	triode-2	7	6	15	16	1	1	E
7Q7	osc.	4	6	21	9	1	1	C
"	amp.	3	6	47	37	5	1	BE
(7Q7—Amp. Sect. OK above 1/3 scale)								
7R7	pentode	5	6	12	37	7	1	BG
"	diode-1	7	6	0	25	10	1	D
"	diode-2	7	6	0	25	10	1	C
7S7	triode	4	6	28	14	1	1	C
"	hexode	4	6	28	32	7	1	BG
7T7		5	6	9	39	3	1	BC
7V7		5	6	9	40	3	1	BC
7W7		5	6	10	38	3	1	BC
(7W7—Cathode Short Test—Depress both D-F)								
7X6	plate-1	7	6	0	4	1	1	C
"	plate-2	7	6	0	4	1	1	E
7X7	triode	3	6	13	45	1	1	B
"	diode-1	3	6	0	25	10	1	G
"	diode-2	3	6	0	25	10	1	E
7Y4	plate-1	7	6	0	4	1	1	C
"	plate-2	7	6	0	4	1	1	E
7Z4	plate-1	7	6	0	7	11	1	C
"	plate-2	7	6	0	7	11	1	E
9A8	triode	7	7	10	47	10	7	H
"	pentode	9	7	10	47	10	7	BE
(9A8—Fil. Cont.—Depress D)								
9AK8	triode	6	7	13	30	6	7	G
"	diode-1	6	7	0	33	10	7	E
"	diode-2	6	7	0	27	10	7	J
"	diode-3	6	7	0	27	10	7	H
(9AK8—Fil. Cont.—Depress D)								
10		3	7	30	10	1	1	B
11C5		6	8	30	30	1	6	J
(11C5—Fil. Cont.—Depress C)								
(11C5—Must show short on B-E)								
(11C5—Grid short test—Depress B, E together)								
12-A		3	5	23	10	1	1	B
12A4		1	6	0	12	1	8	G
(12A4—Must Show Short on A-J)								
(12A4—Fil. Cont.—Depress C, D, then both C-D)								
(12A4—Grid Short Test—Depress A-J together)								

* FM/AM EYE TUBE TEST PROCEDURE, (6AL7)

1. Set all switches and controls as indicated with the exception of "A" control. Next set control "A" to Number 2, perform standard Short Test, then depress "Read Meter" button and observe the two rectangular patterns.
2. Rotate control "A" to number 3, depress "Read Meter" button, and observe the increase in height of one rectangular pattern.
3. Rotate control "A" to number 5, depress "Read Meter" button, and observe the increase in height of the other rectangular pattern.
4. Rotate control "A" to number 4, depress "Read Meter" button. Both ends of the patterns opposite to the ends noted in 2 and 3 above should increase slightly as compared to their length in 1 above.

† NOTE: Types 205D and 1276—Point Bayonet Side Pin towards upper Left Corner of Instrument and Hold Tube in the 4 Prong Socket.

Tube	Section	A	B	C	D	E	F	Depress	
7730	triode-1	1	6	27	10	2	3	E	
"	triode-2	9	6	27	10	2	3	H	
	(7730—Fil. Cont.—Depress C, D, then both C-D)								
7731	triode	7	6	18	11	1	6	H	
"	pent.	9	6	12	37	2	6	BE	
	(7731—Fil. Cont.—Depress C)								
7733		9	6	18	14	11	5	AF	
	(7733—Fil. Cont.—Depress C, D, then both C-D)								
	(7733—Must show short on B, G)								
	(7733—Suppressor short test—Depress B, G together)								
8016		—Same as 1B3—							
9001		1	6	20	33	6	6	EF	
	(9001—Fil. Cont.—Depress C)								
	(9001—Cathode Short Test—Depress both B-J)								
9002		6	5	25	14	1	6	AE	
	(9002—Fil. Cont.—Depress C)								
	(9002—Cathode Short Test—Depress both B-J)								
	(9002—Plate Test—Depress both A-E)								
9003		1	6	19	32	6	6	EF	
	(9003—Fil. Cont.—Depress C)								
	(9003—Cathode Test—Depress both B-J)								
9004		4	6	0	25	10	1	B	
9005		4	4	0	25	1	1	C	
	(9005—Must Show Short on F)								
9006	diode	7	6	0	25	10	6	AE	
	(9006—Fil. Cont.—Depress C)								
	(9006—Cathode Short Test—Depress both B-J)								
	(9006—Plate Test—Depress both A-E)								
PJ-8		3	5	25	18	1	1	B	
XXB	triode-1	7	1	30	50	10	4	E	
"	triode-2	4	1	30	50	10	4	C	
	(XXB—Fil. Cont.—Depress A, J, then both A-J)								
XXD	triode-1	4	8	25	11	1	1	C	
"	triode-2	7	8	25	11	1	1	E	
XXFM	triode	3	6	13	45	1	1	B	
"	diode-1	3	6	0	25	10	1	G	
"	diode-2	3	6	0	25	10	1	E	
XXL		5	6	23	10	1	1	B	

Tube	Section	A	B	C	D	E	F	Depress
12A5		4	6	28	15	3	4	BC
	(12A5—Fil. Cont.—Depress A, J, then both A-J)							
12A6		4	8	13	16	3	1	BC
12A7	pentode	7	8	31	18	3	1	BC
"	rect.	7	8	0	3	11	1	E
12A8	amp.	7	8	15	50	3	1	BC
"	osc.	4	8	31	30	1	1	E
12AB5		2	8	0	13	1	6	FGH
	(12AB5—Must show short on B, E, F, H)							
	(12AB5—Grid short test—Depress B, E together)							
	(12AB5—Screen short test—Depress F, H together)							
	(12AB5—Fil. Cont.—Depress C)							
12AE6	triode	1	8	19	31	11	7	J
"	diode-1	1	8	0	34	10	7	F
"	diode-2	1	8	0	34	10	7	E
	(12AE6—Fil. Cont.—Depress D)							
12AE7	triode-1	1	6	23	7	11	3	E
"	triode-2	9	6	11	7	11	3	H
	(12AE7—Fil. Cont.—Depress C, D then both C-D)							
12AH7	triode-1	8	8	18	15	1	4	B
"	triode-2	4	8	18	15	1	4	E
12AJ6	triode	1	8	32	17	11	6	J
"	diode-1	1	8	0	31	10	6	F
"	diode-2	1	8	0	34	10	6	E
	(12AJ6—Fil. Cont.—Depress C)							
12AL5	diode-1	7	8	0	25	10	6	J
"	diode-2	7	8	0	25	10	6	B
	(12AL5—Fil. Cont.—Depress C)							
12AS5		6	8	30	29	1	6	J
	(12AS5—Must Show Short on B, E)							
	(12AS5—Fil. Cont.—Depress C)							
	(12AS5—Grid Short Test—Depress B, E Together)							
12AV5		8	8	4	11	6	1	DF
12AY7	triode-1	1	6	25	20	1	3	E
"	triode-2	9	6	25	20	1	3	H
	(12AY7—Fil. Cont.—Depress C, D, then both C-D)							
12B7		5	8	20	31	3	1	BC
12B8	triode	6	8	10	33	1	1	D
"	pentode	7	8	7	33	3	1	BC
12BA7	amp.	8	8	40	47	1	6	AG
"	osc.	9	8	29	6	1	6	H
	(12BA7—Amp. section OK above 1/3 scale)							
	(12BA7—Fil. Cont.—Depress C)							
12BD6		1	8	15	33	6	6	EF
	(12BD6—Fil. Cont.—Depress C)							
12BR7	triode	9	6	14	18	1	3	H
"	diode-1	9	6	0	25	10	3	A
"	diode-2	9	6	0	25	10	3	E
	(12BR7—Fil. Cont.—Depress C, D, then both C-D)							
12BU6	triode	1	8	30	10	1	6	J
"	diode-1	7	8	0	30	10	6	F
"	diode-2	7	8	0	30	10	6	E
	(12BU6—Fil. Cont.—Depress C)							

Tube	Section	A	B	C	D	E	F	Depress
12BV7		9	6	7	28	6	5	AF
	(12BV7—Must show short on B, G)							
	(12BV7—Fil. Cont.—Depress C, D, then both C-D)							
12BX6		9	8	5	36	6	6	AF
	(12BX6—Fil. Cont.—Depress C)							
	(12BX6—Must Show Short on B, H)							
	(12BX6—Cathode Short Test—Depress B-H Together)							
12C8	pentode	7	8	26	30	5	1	BE
"	diode-1	7	8	0	30	10	1	C
"	diode-2	7	8	0	30	10	1	D
12DB5		8	8	45	13	1	6	G
	(12DB5—Fil. Cont.—Depress C)							
	(12DB5—Must show short on A, B, E, J)							
	(12DB5—Grid short test—Depress B, E together)							
	(12DB5—Cathode short test—Depress A, J together)							
12DL8	tetrode	1	8	17	21	2	7	AE
"	diode-1	1	8	0	41	10	7	H
"	diode-2	1	8	0	41	10	7	G
	(12DL8—Fil. Cont.—Depress D)							
12DQ5		8	8	0	5	2	1	CFG
	(12DQ5—Must Show Short on B, C, D, E, F, H)							
	(12DQ5—Grid Short Test—Depress D, H, Together)							
	(12DQ5—Screen Short Test—Depress C, F Together)							
	(12DQ5—Cathode Short Test—Depress B, E Together)							
12DQ7		9	6	21	20	6	5	AF
	(12DQ7—Fil. Cont.—Depress C, D, then both C-D)							
	(12DQ7—Must show short on B, G)							
	(12DQ7—Suppressor short test—Depress B, G together)							
12DS7	tetrode	1	8	11	35	2	7	BE
"	diode-1	9	8	0	34	10	7	G
"	diode-2	9	8	0	34	10	7	H
	(12DS7—Fil. Cont.—Depress D)							
12DW5		2	8	0	10	8	7	GH
	(12DW5—Fil. Cont.—Depress D)							
	(12DW5—Must show short on B, E)							
	(12DW5—Grid short test—Depress B, E together)							
12E5		4	8	15	17	1	1	B
12EG6	amp.	6	8	39	32	11	7	EJ
"	osc.	1	8	13	11	11	7	F
	(12EG6—Fil. Cont.—Depress D)							
12EH5		8	8	0	22	6	7	FJ
	(12EH5—Fil. Cont.—Depress D)							
	(12EH5—Must show short on B-E)							
	(12EH5—Grid short test—Depress B-E together)							
12F5		7	8	12	33	1	1	C
12G4		6	8	16	14	1	6	AE
	(12G4—Fil. Cont.—Depress C)							
	(12G4—Must Show Short on A-E)							
	(12G4—Plate Short Test—Depress A-E Together)							
12H4		6	6	16	14	1	8	AE
	(12H4—Fil. Cont.—Depress C, D, then both C-D)							
	(12H4—Must Show Short on A-E)							
	(12H4—Plate Short Test—Depress A-E Together)							
12H6	diode-1	7	8	0	25	10	1	B
"	diode-2	7	8	0	25	10	1	D

Tube	Section	A	B	C	D	E	F	Depress
7058	triode-1	1	8	12	31	2	6	E
"	triode-2	9	8	12	31	2	6	H
	(7058—Fil. Cont.—Depress C)							
7059	triode	7	8	18	11	1	6	H
"	pentode	9	8	12	37	2	6	BE
	(7059—Fil. Cont.—Depress C)							
7060	triode	9	8	14	16	1	6	B
"	pentode	1	8	9	23	11	6	FG
	(7060—Fil. Cont.—Depress C)							
7061		2	8	0	13	1	6	FGH
	(7061—Must show short on B, E, F, H)							
	(7061—Grid Short Test—Depress B, E, together)							
	(7061—Screen Short Test—Depress F-H together)							
7167		1	8	20	21	6	6	EF
	(7167—Fil. Cont.—Depress C)							
	(7167—Must show short on B, J)							
	(7167—Cathode Short Test—Depress B-J together)							
7189		9	6	0	23	7	6	AG
	(7189—Fil. Cont.—Depress C)							
	(7189—May show short on H, J)							
7199	triode	7	6	18	11	2	7	H
"	pent.	1	6	12	33	2	7	BJ
	(7199—Fil. Cont.—Depress D)							
7247	triode-1	1	6	33	10	1	3	E
"	triode-2	9	6	27	10	1	3	H
	(7247—Fil. Cont.—Depress C, D, then both C-D)							
7258	triode	9	8	12	26	11	6	H
"	pentode	6	8	7	34	1	6	AE
	(7258—Fil. Cont.—Depress C)							
7355		5	6	8	13	6	1	BF
7551		9	8	0	10	3	7	BEF
	(7551—Fil. Cont.—Depress D)							
	(7551—Must show short on B, F, G, H)							
	(7551—Cathode short test—Depress H, G together)							
	(7551—Screen short test—Depress B, F together)							
7558		9	6	2	10	3	7	BEF
	(7558—Fil. Cont.—Depress D)							
	(7558—Must show short on B, F, G, H)							
	(7558—Cathode short test—Depress H, G, together)							
	(7558—Screen short test—Depress B, F together)							
7581		4	5	26	10	11	1	BC
7728	triode-1	1	6	29	10	2	3	E
"	triode-2	9	6	29	10	2	3	H
	(7728—Fil. Cont.—Depress C, D, then both C-D)							
7729	triode-1	1	6	12	31	2	3	E
"	triode-2	9	6	12	31	2	3	H
	(7729—Fil. Cont.—Depress C, D, then both C-D)							

Tube	Section	A	B	C	D	E	F	Depress
6679	triode-1	1	6	29	10	2	3	E
"	triode-2	9	6	29	10	2	3	H
	(6679—Fil. Cont.—Depress C, D, then both C-D)							
6680	triode-1	1	6	27	10	2	3	E
"	triode-2	9	6	27	10	2	3	H
	(6680—Fil. Cont.—Depress C, D, then both C-D)							
6681	triode-1	1	6	10	38	2	3	E
"	triode-2	9	6	10	38	2	3	H
	(6681—Fil. Cont.—Depress C, D, then both C-D)							
6688		9	6	13	27	7	7	AG
	(6688—Fil. Cont.—Depress D)							
	(6688—Must show short on B-H)							
	(6688—Cathode Short Test—Depress B-H together)							
6829	triode-1	1	6	21	10	1	3	E
"	triode-2	9	6	21	10	1	3	H
	(6829—Fil. Cont.—Depress C, D, then both C, D)							
6919	diode-1	7	6	0	23	10	6	J
"	diode-2	7	6	0	23	10	6	B
	(6919—Fil. Cont.—Depress C)							
6922	triode-1	1	6	7	8	3	7	E
"	triode-2	9	6	7	8	3	7	H
	(6922—Fil. Cont.—Depress D)							
6973		8	6	0	13	9	7	FGH
	(6973—Fil. Cont.—Depress D)							
	(6973—Must show short on B, E, F, H)							
	(6973—Grid Short Test—Depress B, E together)							
	(6973—Screen Short Test—Depress F, H together)							
7025	triode-1	1	6	10	38	2	3	E
"	triode-2	9	6	10	38	2	3	H
	(7025—Fil. Cont.—Depress C, D, then both C-D)							
7027		4	6	0	10	9	1	*BCH
	*(7027—Ignore glow on C)							
	(7027—Must show short on C, D, E, H)							
	(7027—Screen Short Test—Depress C, H together)							
	(7027—Grid Short Test—Depress D, E together)							
7036	amp.*	6	6	37	43	9	6	EJ
"	osc.	1	6	31	6	1	6	F
	*(7036—Amp. Section OK above 1/3 scale)							
	(7036—Fil. Cont.—Depress C)							
7054		9	8	18	14	11	6	AF
	(7054—Must show short on B, G)							
	(7054—Fil. Cont.—Depress C)							
7055	diode-1	7	8	0	25	10	6	J
"	diode-2	7	8	0	25	10	6	B
	(7055—Fil. Cont.—Depress C)							
7056		1	8	10	39	6	6	EF
	(7056—Fil. Cont.—Depress C)							
7057	triode-1	1	8	26	8	1	6	E
"	triode-2	9	8	26	8	1	6	H
	(7057—Fil. Cont.—Depress C)							

Tube	Section	A	B	C	D	E	F	Depress
12J5		4	8	15	15	1	1	B
12J7		7	8	10	39	3	1	BC
12K7		7	8	16	33	3	1	BC
12K8	triode	4	8	28	15	1	1	E
"	hexode	7	8	9	50	3	1	BC
	(12K8—Hexode OK above 1/3 scale)							
12L6		4	8	8	10	3	1	BC
12L8	pent.-1	8	8	20	27	4	5	DF
"	pent.-2	2	8	20	27	4	5	CD
12Q7	triode	7	8	13	34	1	1	B
"	diode-1	7	8	0	30	10	1	C
"	diode-2	7	8	0	30	10	1	D
12R5		6	8	45	10	1	6	J
	(12R5—Fil. Cont.—Depress C)							
	(12R5—Must show short on B-E)							
	(12R5—Grid short test—Depress B, E together)							
12S8	triode	7	8	12	37	1	4	E
"	diode-1	7	8	0	30	10	4	B
"	diode-2	7	8	0	30	10	4	C
"	diode-3	7	8	0	30	10	4	H
	(12S8—May show short on J)							
12SC7	triode-1	3	8	19	27	1	4	D
"	triode-2	2	8	19	27	1	4	J
12SF5		2	8	12	32	1	4	D
12SF7	pentode	9	8	20	32	3	4	CE
"	diode	9	8	0	25	10	4	D
12SG7		3	8	9	38	5	1	EF
	(12SG7—Cathode Short Test—Depress both B-D)							
12SH7		3	8	10	39	5	1	EF
	(12SH7—Cathode Short Test—Depress both B-D)							
12SR7	diode-1	9	8	0	30	10	4	C
"	diode-2	9	8	0	30	10	4	D
"	triode	9	8	18	15	1	4	E
12SW7	triode	9	8	18	15	1	4	E
"	diode-1	9	8	0	30	10	4	D
"	diode-2	9	8	0	30	10	4	C
12SX7	triode-1	3	8	15	16	1	4	D
"	triode-2	8	8	15	16	1	4	J
12SY7	amp.	3	8	47	47	6	1	BF
"	osc.	4	8	21	9	1	1	C
	(12SY7—Amp. Section OK above 1/3 scale)							
12U7	triode-1	1	6	25	20	11	3	E
"	triode-2	9	6	25	20	11	3	H
	(12U7—Fil. Cont.—Depress C, D, then both C-D)							
12V6		4	8	11	14	3	1	BC
12W6		4	8	8	9	3	1	BC
12Z3		7	8	0	1	11	1	B
12Z5	plate-1	7	6	0	3	11	6	B
"	plate-2	7	6	0	3	11	6	F
	(12Z5—Fil. Cont.—Depress A, J, then both A-J)							
14		7	8	13	30	3	1	BC
14A4		5	8	15	15	1	1	B
14A5		5	8	8	11	3	1	BC
14A7		5	8	20	31	3	1	BC
14AF7	triode-1	7	8	15	15	1	1	E
"	triode-2	4	8	15	15	1	1	C

Tube	Section	A	B	C	D	E	F	Depress
14B6	triode	3	8	12	37	1	1	B
"	diode-1	3	8	0	30	10	1	G
"	diode-2	3	8	0	30	10	1	E
(14B6—Cathode Short Test—Depress both D-F)								
14B8	amp.	5	8	15	50	7	1	BG
"	osc.	4	8	31	28	1	1	C
14C5		5	8	11	14	3	1	BC
14C7		5	8	15	33	3	1	BC
14E6	diode-1	7	8	0	25	10	1	G
"	diode-2	7	8	0	25	10	1	E
"	triode	3	8	16	18	1	1	B
(14E6—Must show short on D-F)								
(14E6—Cathode Short Test—Depress D-F together)								
14E7	pentode	5	8	17	34	7	1	BG
"	diode-1	7	8	0	25	10	1	C
"	diode-2	7	8	0	25	10	1	D
14F7	triode-1	4	8	14	31	1	1	C
"	triode-2	7	8	14	31	1	1	E
14F8	triode-1	1	8	13	14	1	8	E
"	triode-2	9	8	13	14	1	8	C
(14F8—Fil. Cont.—Depress F)								
14H7		5	8	11	35	3	1	BC
14J7	triode	4	8	20	18	1	1	C
"	hexode	5	8	6	45	7	1	BG
(14J7—Hexode OK above 1/3 scale)								
14L7	triode	2	8	23	47	10	4	J
"	diode-1	2	8	0	36	10	4	E
"	diode-2	2	8	0	36	10	4	D
(14L7—Fil. Cont.—Depress H)								
14N7	triode-1	4	8	15	16	1	1	C
"	triode-2	7	8	15	16	1	1	E
14Q7	amp.	3	8	47	37	5	1	BE
"	osc.	4	8	21	9	1	1	C
(14Q7—Amp. Section OK above 1/3 scale)								
14R7	pentode	5	8	12	37	7	1	BG
"	diode-1	7	8	0	25	10	1	D
"	diode-2	7	8	0	25	10	1	C
14S7	triode	4	8	28	14	1	1	C
"	heptode	4	8	28	32	7	1	BG
14W7		5	8	10	38	3	1	BC
(14W7—Cathode Short Test—Depress both D-F)								
(14W7—Must show short on D, F)								
14X7	triode	3	8	13	45	1	1	B
"	diode-1	3	8	0	25	10	1	G
"	diode-2	3	8	0	25	10	1	E
14Y4	plate-1	7	8	0	3	11	1	C
"	plate-2	7	8	0	3	11	1	E
15		7	2	21	37	3	1	BC
17		3	8	27	11	1	1	B
17C5		6	12	28	27	1	6	J
(17C5—Fil. Cont.—Depress C)								
(17C5—Must show short on B, E)								
(17C5—Grid short test—Depress B, E together)								
17C8	pentode	9	12	14	37	8	7	HE
"	diode-1	9	12	0	33	10	7	F
"	diode-2	9	12	0	33	10	7	A
(17C8—Fil. Cont.—Depress D)								

Tube	Section	A	B	C	D	E	F	Depress
6216		9	6	4	12	1	7	AEH
(6216—Fil. Cont.—Depress D)								
(6216—Must show short on B, E, F, H)								
(6216—Plate short test—Depress E, H)								
(6216—Cathode short test—Depress B, F together)								
6265		1	6	12	40	6	6	EF
(6265—Fil. Cont.—Depress C)								
6267		7	6	17	32	8	6	EH
(6267—Fil. Cont.—Depress C)								
(6267—Must show short on A, J)								
6336	triode-1	3	6	0	4	1	4	D
"	triode-2	8	6	0	4	1	4	J
6336A	triode-1	3	6	0	46	10	9	D
"	triode-2	8	6	0	46	10	9	J
(6336A—Fil. Cont.—Depress F)								
6350	triode-1	6	6	10	14	7	3	E
"	triode-2	2	6	10	14	7	3	H
(6350—Fil. Cont.—Depress C, D, then Both C-D)								
6360	tet-1	2	6	18	32	1	3	AF
"	tet-2	8	6	18	32	1	3	AE
(6360—Fil. Cont.—Depress C, D, then Both C-D)								
6386	triode-1	1	6	20	9	1	2	E
"	triode-2	2	6	20	9	1	2	C
(6386—Fil. Cont.—Depress G)								
(6386—May Show Short on D)								
6394	triode-1	3	9	10	4	1	4	D
"	triode-2	8	9	10	4	1	4	J
6463	triode-1	2	6	24	8	1	3	H
"	triode-2	6	6	24	8	1	3	E
(6463—Fil. Cont.—Depress C, D, then Both C-D)								
6550		4	6	5	15	3	1	BC
6660		1	6	9	40	6	6	EF
(6660—Fil. Cont.—Depress C)								
6661		1	6	12	40	6	6	EF
(6661—Fil. Cont.—Depress C)								
6662		1	6	7	40	6	6	EF
(6662—Fil. Cont.—Depress C)								
6663	diode-1	7	6	0	25	10	6	J
"	diode-2	7	6	0	25	10	6	B
(6663—Fil. Cont.—Depress C)								
6669		6	6	50	30	1	6	E
(6669—Must show short on A, J)								
(6669—Fil. Cont.—Depress C)								
(6669—Grid Short Test—Depress A, J together)								
6677		1	6	0	11	1	6	BEF
(6677—Must show short on B, F, G, J)								
(6677—Fil. Cont.—Depress C)								
6678	triode	7	6	18	11	1	6	H
"	pent.	9	6	13	3	1	6	BE
(6678—Fil. Cont.—Depress C)								

Tube	Section	A	B	C	D	E	F	Depress
6098		1	6	10	12	4	4	BD
	(6098—Fil. Cont.—Depress E)							
6111	triode-1	1	6	11	47	10	5	F
"	triode-2	9	6	11	47	10	5	H
	(6111—Fil. Cont.—Depress B)							
6112	triode-1	1	6	14	49	10	5	F
"	triode-2	9	6	14	49	10	5	H
	(6112—Fil. Cont.—Depress B)							
6135		6	6	24	10	1	6	AE
	(6135—Fil. Cont.—Depress C)							
	(6135—Plate Short Test—Depress both A-E together)							
6136		1	6	10	38	6	6	EF
	(6136—Fil. Cont.—Depress C)							
6137		3	6	16	33	5	1	EF
6146		4	6	13	5	1	1	BG
	(6146—Must Show Short on C-E-H)							
	(6146—Cathode Short Test—Depress C-E-H together)							
6159		4	9	13	5	1	1	BG
	(6159—Must Show Short on C-E-H)							
	(6159—Cathode Short Test—Depress C-E-H together)							
6187		1	6	5	41	6	6	EF
	(6187—OK Above 1/3 Scale Reading)							
	(6187—Fil. Cont.—Depress C)							
6188	triode-1	8	6	14	30	1	4	J
"	triode-2	3	6	14	30	1	4	D
6189	triode-1	1	6	27	10	2	3	E
"	triode-2	9	6	27	10	2	3	H
	(6189—Fil. Cont.—Depress C, D, then Both C-D)							
6197		1	6	0	11	1	6	BEF
	(6197—Fil. Cont.—Depress C)							
	(6197—Must show short on B, F, G, J)							
6201	triode-1	1	6	29	10	2	3	E
"	triode-2	9	6	29	10	2	3	H
	(6201—Fil. Cont.—Depress C, D, then Both C-D together)							
6202	plate-1	2	6	0	5	11	6	F
"	plate-2	2	6	0	5	11	6	A
	(6202—Fil. Cont.—Depress C)							
6203	diode-1	9	6	0	44	10	7	G
"	diode-2	9	6	0	44	10	7	H
	(6203—Fil. Cont.—Depress D)							
6205		8	6	24	8	1	5	AD
	(6205—Fil. Cont.—Depress B)							
	(6205—Must Show Short on F, J)							
	(6205—Cathode Short Test—Depress F, J together)							
6206		8	6	10	32	1	5	AD
	(6206—Fil. Cont.—Depress B)							
	(6206—Must Show Short on F, J)							
	(6206—Cathode Short Test—Depress F, J together)							
6211	triode-1	1	6	17	12	1	3	E
"	triode-2	9	6	17	12	1	3	H
	(6211—Fil. Cont.—Depress C, D, then Both C-D)							

Tube	Section	A	B	C	D	E	F	Depress
17CA5		7	12	0	4	1	6	BEFJ
	(17CA5—Fil. Cont.—Depress C)							
	(17CA5—Must show short on B, E)							
	(17CA5—Grid short test—Depress B, E together)							
17CU5		7	12	0	12	6	6	FJ
	(17CU5—Fil. Cont.—Depress C)							
	(17CU5—Must show short on B, E)							
	(17CU5—Grid short test—Depress B, E together)							
17H3		1	12	0	3	11	6	BF
	(17H3—Fil. Cont.—Depress C)							
	(17H3—Must show short on B-F)							
	(17H3—Plate short test—Depress B, F together)							
17L6		4	12	8	10	3	1	BC
17R5		6	12	45	10	1	6	J
	(17R5—Fil. Cont.—Depress C)							
	(17R5—Must show short on B-E)							
	(17R5—Grid short test—Depress B, E together)							
18		4	8	25	18	3	1	BC
18A5		8	12	8	23	6	1	DF
"	triode-1	3	2	20	23	1	1	B
"	triode-2	4	2	20	23	1	1	E
19C8	triode	6	12	9	40	1	6	G
"	diode-1	7	12	0	25	10	6	E
"	diode-2	7	12	0	25	10	6	J
"	diode-3	7	12	0	25	10	6	H
	(19C8—Fil. Cont.—Depress C)							
19J6	triode-1	5	12	23	11	3	6	B
"	triode-2	6	12	23	11	3	6	A
	(19J6—Fil. Cont.—Depress C)							
19X3		1	8	0	0	11	7	G
	(19X3—Fil. Cont.—Depress D)							
20		3	4	29	13	1	1	B
22		7	4	29	27	3	1	BC
24		7	3	31	11	1	1	BC
25A6		4	9	27	15	3	1	BC
25A7	pentode	4	9	25	17	3	1	BC
"	rect.	7	9	0	2	11	1	E
25AC5		4	9	25	16	1	1	B
25B5	input	4	9	29	10	1	1	C
"	output	4	9	29	13	3	1	BC
25B6		4	9	9	9	3	1	BC
25B8	triode	6	9	10	33	1	1	D
"	pentode	7	9	7	33	3	1	BC
25C6		4	9	5	9	3	1	BC
25D8	diode	7	9	0	30	10	1	F
"	triode	4	9	10	38	1	1	E
"	pentode	7	9	20	29	3	1	BC
25F5		6	9	48	13	1	6	J
	(25F5—Fil. Cont.—Depress C)							
	(25F5—Must show short on B-E)							
	(25F5—Grid Short Test—Depress B, E, together)							
25L6	input	4	9	8	10	3	1	BC
25N6	output	4	9	29	10	1	1	C
25W6		4	9	29	13	3	1	BC
	(25W6—Fil. Cont.—Depress C, D, then Both C-D)							

Tube	Section	A	B	C	D	E	F	Depress
25X6	plate-1	7	9	0	2	11	1	B
"	plate-2	7	9	0	2	11	1	D
25Y4	plate-1	7	9	0	1	11	1	D
25Y5	plate-2	7	9	0	4	11	1	B
"	plate-1	7	9	0	4	11	1	E
25Z3	plate-2	7	9	0	1	11	1	B
25Z4	plate-1	7	9	0	2	11	1	D
25Z5	plate-2	7	9	0	2	11	1	B
"	plate-1	7	9	0	2	11	1	E
25Z6	plate-2	7	9	0	2	11	1	B
"	plate-1	7	9	0	2	11	1	D
26	amp.	3	1	19	18	1	1	B
26A6	osc.	1	9	14	35	6	6	EF
	(26A6—Fil. Cont.—Depress C)							
26A7	pent-1	8	9	24	12	4	5	DF
"	pent-2	2	9	24	12	4	5	CD
26BK6	triode	1	9	32	11	1	6	J
"	diode-1	7	9	0	30	10	6	F
"	diode-2	7	9	0	30	10	6	E
26D6	amp.	6	9	47	47	9	6	EJ
"	osc.	1	9	21	9	1	6	F
	(26D6—Amp. Section OK above 1/3 scale)							
	(26D6—Fil. Cont.—Depress C)							
26E6	triode	1	9	18	15	1	6	J
"	diode-1	1	9	0	30	10	6	F
"	diode-2	1	9	0	30	10	6	E
26D6	amp.	6	9	47	47	9	6	EJ
"	osc.	1	9	21	9	1	6	F
	(26D6—Amp. Section OK above 1/3 scale)							
	(26D6—Fil. Cont.—Depress C)							
26E6	plate-1	4	9	5	12	3	1	BC
26Z5	plate-2	7	8	0	4	11	3	E
"	plate-1	7	8	0	4	11	3	H
	(26Z5—Fil. Cont.—Depress C, D, then both C & D together)							
27	section-1	3	3	17	17	1	1	B
28D7	section-2	6	9	26	11	3	1	CG
"	section-1	2	9	26	11	3	1	CD
30	triode-1	3	2	17	23	1	1	B
31	triode-2	3	2	31	8	1	1	B
31A3	osc.	3	10	0	2	11	2	J
	(31A3—Fil. Cont.—Depress F)							
32	amp.	7	2	24	35	3	1	BC
32ET5	rect.	2	10	0	22	11	7	FJ
	(32ET5—Fil. Cont.—Depress D)							
	(32ET5—Must Show Short on B, E)							
	(32ET5—Grid Short Test—Depress B, E together)							
32L7	amp.	4	10	6	11	3	1	BC
"	rect.	4	10	0	1	11	1	E
33	triode-1	3	2	29	16	4	1	BD
RK-33	triode-2	7	6	29	9	1	1	C
"	plate-1	4	6	29	9	1	1	E
34	triode-1	7	2	29	36	3	1	BC
35-51	triode-2	7	3	32	10	1	1	BC
35Z4	plate-1	3	10	0	1	11	1	D
35Z5	plate-2	7	10	0	1	11	9	D
	(35Z5—Fil. Cont.—Depress J, B, then both J-B)							
35Z6	plate-1	7	10	0	0	11	1	B
"	plate-2	7	10	0	0	11	1	D
36	triode-1	7	6	20	17	1	1	BC
37	triode-2	3	6	27	11	1	1	B
38	amp.	7	6	28	19	3	1	BC
39-44	osc.	7	6	20	33	3	1	BC

Tube	Section	A	B	C	D	E	F	Depress
5881	plate-1	4	6	5	16	3	1	BC
5899	plate-2	8	6	13	47	10	5	AD
	(5899—Fil. Cont.—Depress B)							
	(5899—Must Show Short on C, F, J)							
	(5899—Cathode Short Test—Depress C, F, J together)							
5902A	amp.	8	6	5	11	1	5	AD
"	osc.	6	6	37	43	9	6	EJ
	(5902A—Fil. Cont.—Depress B)							
	(5902A—Must Show Short on C, F, J)							
	(5902A—Cathode Short Test—Depress C, F, J together)							
5915	amp.	6	6	37	43	9	6	EJ
"	osc.	1	6	31	6	1	6	F
	(5915—Amp. Section OK Above 1/3 Scale)							
	(5915—Fil. Cont.—Depress C)							
5931	plate-1	7	5	0	5	11	1	C
"	plate-2	7	5	0	5	11	1	E
5932	triode-1	4	6	9	12	3	1	BC
5933	triode-2	3	6	9	12	2	1	BG
5963	triode-1	1	6	27	10	2	3	E
"	triode-2	9	6	27	10	2	3	H
	(5963—Fil. Cont.—Depress C, D, then Both C & D together)							
5964	triode-1	5	6	24	11	7	6	B
"	triode-2	6	6	24	11	7	6	A
	(5964—Fil. Cont.—Depress C)							
5965	triode-1	1	6	25	9	1	3	E
"	triode-2	9	6	25	9	1	3	H
	(5965—Fil. Cont.—Depress C, D, then Both C-D)							
6005	amp.	6	6	50	30	1	6	E
	(6005—Fil. Cont.—Depress C)							
	(6005—Must Show Short on A, J)							
	(6005—Grid Short Test—Depress A-J together)							
6021	triode-1	1	6	12	15	1	5	F
"	triode-2	9	6	12	15	1	5	H
	(6021—Fil. Cont.—Depress B)							
6029	amp.	2	1	10	26	11	1	H
	(6029—Fil. Cont.—Depress C)							
6046	triode-1	4	9	8	10	3	1	BC
6072	triode-2	1	6	25	20	1	3	E
"	triode-1	9	6	25	20	1	3	H
	(6072—Fil. Cont.—Depress C, D, then Both C-D together)							
6080	triode-1	3	6	25	4	1	4	D
"	triode-2	8	6	25	4	1	4	J
6087	plate-1	7	5	0	8	11	1	C
"	plate-2	7	5	0	8	11	1	E
	(6087—Fil. Cont.—Depress F)							
6088	amp.	3	1	22	50	10	6	HJ
	(6088—Fil. Cont.—Depress B)							
6096	osc.	1	6	14	28	6	6	EF
	(6096—Fil. Cont.—Depress C)							
	(6096—Cathode Short Test—Depress Both B, J)							
6097	diode-1	7	6	0	25	10	6	J
"	diode-2	7	6	0	25	10	6	B
	(6097—Fil. Cont.—Depress C)							

Tube	Section	A	B	C	D	E	F	Depress
5727		1	6	0	4	1	6	F
	(5727—Fil. Cont.—Depress C)							
	(5727—Must show short on E-J)							
	(5727—Screen Short Test—Depress E-J together)							
5744		3	6	7	28	1	1	H
	(5744—Fil. Cont.—Depress B)							
5749		1	6	9	40	6	6	EF
	(5749—Fil. Cont.—Depress C)							
5750	amp.	6	6	47	47	9	6	EJ
"	osc.	1	6	21	9	1	6	F
	(5750—Fil. Cont.—Depress C)							
	(5750—Amp. Section OK above 1/3 Scale)							
5751	triode-1	1	6	9	38	1	3	E
"	triode-2	9	6	9	38	1	3	H
	(5751—Fil. Cont.—Depress C, D then both C-D together)							
5763		6	6	9	15	5	6	EH
	(5763—Fil. Cont.—Depress C)							
	Note—(5763—Pin No. 9 must be open circuited. To test this tube if using Precision G-109 adapter, simply leave off grid cap connection to side stud of adapter)							
5784		1	6	25	45	10	7	HJ
	(5784—Fil. Cont.—Depress B)							
5812		1	4	9	14	6	1	EF
	(5812—Fil. Cont.—Depress C, D, then both C-D)							
5814	triode-1	1	6	27	10	2	3	E
"	triode-2	9	6	27	10	2	3	H
	(5814—Fil. Cont.—Depress C, D, then Both C-D)							
5823		1	18	0	0	12	6	A
	(5823—Must show short on C, J)							
5824	diode-1	4	9	9	9	3	1	BC
CK-5829	diode-2	7	6	0	25	10	6	E
"		7	6	0	25	10	6	H
	(CK-5829—Fil. Cont.—Depress B)							
5840		8	6	24	8	1	5	AD
	(5840—Fil. Cont.—Depress B)							
	(5840—Must Show Short on C, F, J)							
	(5840—Cathode Short Test—Depress C, F, J together)							
5842		9	6	0	14	1	3	H
	(5842—Fil. Cont.—Depress B)							
	(5842—Must show short on A, C, D, F)							
	(5842—Grid Short Test—Depress A, C, D, F together)							
5847		8	6	6	28	6	8	EF
	(5847—Fil. Cont.—Depress G)							
CK-5854		3	1	25	34	10	6	HJ
	(CK-5854—OK Above 1/3 Scale)							
	(CK-5854—Fil. Cont.—Depress B)							
5879		8	6	13	43	1	6	AF
	(5879—Fil. Cont.—Depress C)							

Tube	Section	A	B	C	D	E	F	Depress
40		3	5	14	41	1	1	B
41		4	6	26	19	3	1	BC
42		4	6	25	18	3	1	BC
43		4	9	27	16	3	1	BC
45		3	3	35	6	1	1	B
45Z3		7	11	0	2	11	1	BF
	(45Z3—Must show short on B-F)							
	(45Z3—Plate Short Test—Depress B-F together)							
45Z5		7	11	0	1	11	9	D
	(45Z5—Fil. Cont.—Depress J, B, then both J-B)							
46		3	3	31	10	4	1	BD
47		3	3	28	16	4	1	BD
48		4	10	20	14	3	1	BC
49		3	2	32	13	4	1	BD
50		3	7	40	6	1	1	B
50C6		4	11	5	9	3	1	BC
50X6	plate-1	7	11	0	2	11	1	C
"	plate-2	7	11	0	2	11	1	E
50Y7	plate-1	7	11	0	4	1	1	B
"	plate-2	7	11	0	4	1	1	D
	(50Y7—Fil. Cont.—Depress A, E, then both A-E)							
50Z7	plate-1	7	11	0	2	11	1	B
"	plate-2	7	11	0	2	11	1	D
	(50Z7—Fil. Cont.—Depress A, E, then both A-E)							
52		3	6	31	9	4	1	BD
53	triode-1	3	3	35	9	1	1	B
"	triode-2	5	3	35	9	1	1	F
55	triode	7	3	25	13	1	1	B
"	diode-1	7	3	0	35	10	1	C
"	diode-2	7	3	0	35	10	1	D
56		3	3	15	17	1	1	B
56A		3	6	15	16	1	1	BC
57		7	3	10	40	3	1	BC
57A		7	6	10	40	3	1	BC
58		7	3	17	33	3	1	BC
58A		7	6	17	33	3	1	BC
59		4	3	28	18	3	1	BC
RK-61		2	1	0	5	11	1	H
	(RK-61—Fil. Cont.—Depress C)							
KT-66		4	6	5	13	3	1	BC
HY-69		3	6	16	16	2	1	BG
70A7	amp.	4	13	7	11	3	1	BC
"	rect.	7	13	0	0	11	1	AE
	(70A7—Fil. Cont.—Set Control "B" at 11—Depress A, E, then both A-E)							
	(70A7—Rect. Test—See Instructions)							
70L7	amp.	4	13	7	11	3	1	BC
"	rect.	7	13	0	1	11	1	F
	(70L7—Fil. Cont.—Set Control "B" at No. 11)							
71		3	5	37	5	1	1	B
75	triode	7	6	12	37	1	1	B
"	diode-1	7	6	0	30	10	1	C
"	diode-2	7	6	0	30	10	1	D
76		3	6	15	17	1	1	B
77		7	6	12	39	3	1	BC
78		7	6	16	33	3	1	BC
79	triode-1	3	6	33	10	1	1	B
"	triode-2	7	6	33	10	1	1	E
80	plate-1	7	5	0	8	11	1	B
"	plate-2	7	5	0	8	11	1	C

Tube	Section	A	B	C	D	E	F	Depress
81		7	7	0	13	11	1	B
82	plate-1	7	3	0	2	11	1	B
"	plate-2	7	3	0	2	11	1	C
83	plate-1	7	5	0	2	11	1	B
"	plate-2	7	5	0	2	11	1	C
84	plate-1	7	6	0	4	11	1	B
"	plate-2	7	6	0	4	11	1	C
85	triode	7	6	25	12	1	1	B
"	diode-1	7	6	0	35	10	1	C
"	diode-2	7	6	0	35	10	1	D
89		7	6	26	19	3	1	BC
99		3	4	27	20	1	1	B
HY-113		3	12	1	50	10	1	B
	(HY-113—OK above 1/4 scale)							
HY-115		3	1	12	50	10	1	BD
	(HY-115—OK above 1/4 scale)							
117L7/M7	rect.	7	17	0	2	11	1	E
"	amp.	3	17	5	11	4	1	BD
	(117L7/M7—Fil. Cont.—Set Control "B" at No. 11)							
117N7	amp.	3	17	5	11	4	1	BD
"	rect.	7	17	0	0	11	1	A
	(117N7—Fil. Cont.—Set Control "B" at No. 11)							
	(117N7—Rect. Test—See Instructions)							
117P7	amp.	3	17	9	13	4	1	BD
"	rect.	7	17	0	0	11	1	A
	(117P7—Fil. Cont.—Set Control "B" at No. 11)							
	(117P7—Rect. Test—See 117N7 Instructions)							
117Z3		1	17	0	1	11	6	AE
	(117Z3—Fil. Cont.—Set Control "B" at 11—Depress C)							
	(117Z3—May show short on A-E)							
117Z4		7	17	0	1	11	1	D
	(117Z4—Fil. Cont.—Set Control "B" at No. 11)							
117Z6	plate-1	7	17	0	1	11	1	D
"	plate-2	7	17	0	1	11	1	B
	(117Z6—Fil. Cont.—Set Control "B" at No. 11)							
HY-125		3	1	13	40	10	1	BD
	(HY-125—OK above 1/4 scale)							
X-155	triode-1	9	6	15	12	1	6	H
"	triode-2	1	6	15	12	1	6	E
	(X-155—Fil. Cont.—Depress C)							
182A/482A		3	5	37	5	1	1	B
182B/482B		3	5	33	6	1	1	B
183/483		3	5	35	5	1	1	B
†205D		3	5	32	10	1	1	B
247A		3	2	17	25	1	1	B
259A		7	3	20	37	3	1	BC
262B		7	8	21	20	1	1	B
264C		3	1	26	18	1	1	B
271A		3	5	32	7	1	1	B
274A	plate-1	7	5	0	7	11	1	B
"	plate-2	7	5	0	7	11	1	C
283A		7	3	22	28	3	1	BC
300B		3	5	40	4	1	1	B
307A		3	5	34	6	1	1	BG
310B		7	8	18	29	3	1	BC
313C		7	1	0	14	1	1	B
	(313C—May Show Short on A)							

Tube	Section	A	B	C	D	E	F	Depress
5636		8	6	26	21	11	5	AD
	(5636—Fil. Cont.—Depress B)							
	(5636—Must show short on F, J)							
	(5636—Cathode Short Test—Depress F, J together)							
5642		5	1	0	44	11	1	G
	(5642—Fil. Cont.—Depress H)							
	(5642—Connect the 2 bottom leads of tube to pins 1 & 2 of octal socket)							
	Connect top lead of tube to grid cap							
5654		1	6	14	28	6	6	EF
	(5654—Fil. Cont.—Depress C)							
	(5654—Cathode Short Test—Depress both B-J)							
5663		1	7	0	4	1	6	J
	(5663—Fil. Cont.—Depress C)							
5670	triode-1	1	6	25	10	1	2	E
"	triode-2	2	6	25	10	1	2	C
	(5670—Fil. Cont.—Depress G)							
5672		3	1	10	34	11	6	HJ
	(5672—Fil. Cont.—Depress B)							
5676		2	1	17	17	1	1	H
	(5676—Fil. Cont.—Depress C)							
5678		3	1	25	47	10	6	HJ
	(5678—Fil. Cont.—Depress B)							
5679	diode-1	7	4	0	25	10	6	E
"	diode-2	7	4	0	25	10	6	C
	(5679—Fil. Cont.—Depress A-J, then both A, J)							
5687	triode-1	1	6	27	5	1	4	G
"	triode-2	9	6	27	5	1	4	H
	(5687—Fil. Cont.—Depress C, D, then both C-D)							
5691	triode-1	8	6	14	30	1	4	J
"	triode-2	3	6	14	30	1	4	D
5692	triode-1	3	6	15	16	1	4	D
"	triode-2	8	6	15	16	1	4	J
5693		3	6	10	39	5	1	EF
CK-5694	triode-1	3	6	28	12	1	1	B
"	triode-2	4	6	28	12	1	1	E
5695		7	4	0	2	11	1	B
5696		1	6	0	4	1	6	F
	(5696—Must Show Short on E, J)							
	(5696—Fil. Cont.—Depress C)							
	(5696—Screen Short Test—Depress E-J together)							
5702		1	6	12	30	9	8	HJ
5703		4	6	18	20	11	8	H
5718		8	6	15	10	1	5	F
	(5718—Fil. Cont.—Depress B)							
5719		8	6	8	28	10	5	F
	(5719—Fil. Cont.—Depress B)							
5725		1	6	5	41	6	6	EF
	(5725—Fil. Cont.—Depress C)							
	(5725—Output OK Above 1/3 Scale)							
5726	diode-1	7	6	0	25	10	6	J
"	diode-2	7	6	0	25	10	6	B
	(5726—Fil. Cont.—Depress C)							

Tube	Section	A	B	C	D	E	F	Depress
1624		3	3	12	15	2	1	BG
1625		4	8	9	12	3	1	CG
1626		4	8	30	6	1	1	B
1629	triode	4	8	23	24	1	1	B
"	eye	7	8	0	0	2	1	(C-B)
	(1629—See instructions for eye test)							
1631		4	8	9	12	3	1	BC
1632		4	8	10	10	3	1	BC
1633	triode-1	3	9	15	16	1	4	D
"	triode-2	8	9	15	16	1	4	J
1634	triode-1	3	8	19	27	1	4	D
"	triode-2	2	8	19	27	1	4	J
1635	triode-1	4	6	30	17	1	1	E
"	triode-2	3	6	30	17	1	1	B
1639	triode	7	6	31	10	7	1	B
"	diode-1	7	6	0	27	10	1	D
"	diode-2	7	6	0	27	10	1	C
1644	pent.-1	2	8	22	24	4	5	CD
"	pent.-2	8	8	22	24	4	5	DF
1650		3	6	25	13	1	1	B
	(1650—Use Precision G-108 Special Adapter— Top of tube must be on socket side of adapter)							
1655	triode-1	3	6	19	27	1	4	D
"	triode-2	2	6	19	27	1	4	J
1657		4	6	0	3	12	1	B
	(1657—Must show short on H and C)							
1659	triode	7	3	12	40	1	1	B
"	diode-1	7	3	0	35	10	1	C
"	diode-2	7	3	0	35	10	1	D
1662		4	1	15	26	3	5	BCF
	(1662—Fil. Cont.—Depress A, J, then BOTH A-J) (1662—Must show short on B and F) (1662—Plate Short Test—Depress B-F together)							
1665		4	6	0	3	12	1	B
1851		7	6	4	34	3	1	BC
1852		3	6	4	34	5	1	EF
1853		3	6	13	31	5	1	EF
2050		4	6	0	3	12	1	B
2051		4	6	0	3	12	1	B
CK-5517		8	1	0	9	12	2	G
	(CK-5517—Must show short on A, B, F, J) (CK-5517—May show short on C, E) (CK-5517—Cathode Short Test—Depress A-B-F-J together)							
5590		1	6	11	32	6	7	EF
	(5590—Fil. Cont.—Depress D) (5590—Must Show Short on B, J) (5590—Cathode Short Test—Depress B, J together)							
5603		3	6	12	11	5	1	EF
CK-5608	triode-1	5	3	28	11	1	9	F
"	triode-2	3	3	28	11	1	9	B
	(CK-5608—Fil. Cont.—Depress J) (CK-5608—Must show short on D)							
5610		6	6	30	7	1	6	AE
	(5610—Fil. Cont.—Depress C) (5610—Must show short on A, E) (5610—Plate Short Test—Depress A-E together)							
5618		6	3	20	14	3	5	BC
	(5618—Fil. Cont.—Depress A-J, then both A, J)							

Tube	Section	A	B	C	D	E	F	Depress
328A		7	7	20	29	3	1	BC
329A		7	7	22	19	3	1	BC
331B		7	7	17	20	3	1	BC
336A		4	8	20	21	3	1	BC
345A	plate-1	7	6	0	4	1	1	B
"	plate-2	7	6	0	4	1	1	C
347A		7	6	20	23	1	1	C
348A		7	6	22	29	3	1	BC
349A		4	6	25	18	3	1	BC
350A		3	6	12	12	2	1	BG
350B		4	6	8	11	3	1	BC
351A	plate-1	7	6	0	4	11	1	B
"	plate-2	7	6	0	4	11	1	D
TS-383		7	6	0	15	2	6	A
	(TS-383—Fil. Cont.—Depress C)							
398A		3	6	12	11	5	1	EF
401A		1	6	11	32	6	7	EF
	(401A—Fil. Cont.—Depress D) (401A—Must Show Short on B, J) (401A—Cathode Short Test—Depress B, J together)							
407A		2	12	9	15	1	6	C
"	triode-1	1	12	9	15	1	6	E
	(407A—Fil. Cont.—Depress G, H, then both G-H)							
412A		9	6	0	4	1	6	G
"	plate-1	9	6	0	4	1	6	H
"	plate-2	9	6	0	4	1	6	H
	(412A—Fil. Cont.—Depress C)							
417A		9	6	0	14	1	3	H
	(417A—Fil. Cont.—Depress B) (417A—Must show short on A, C, D, F) (417A—Grid Short Test—Depress A, C, D, F together)							
484/485		3	4	17	17	1	1	B
CK-501-AX		3	1	16	47	11	6	HJ
	(CK-501-AX—Fil. Cont.—Depress B)							
502A		4	6	0	3	12	1	B
CK-502-AX		3	1	26	50	10	6	HJ
	(CK-502-AX—Fil. Cont.—Depress B)							
CK-503-AX		3	1	28	50	10	6	HJ
	(CK-503-AX—Fil. Cont.—Depress B)							
CK-506-AX		3	1	25	47	10	6	HJ
	(CK-506-AX—Fil. Cont.—Depress B)							
CK-507-AX		3	1	23	50	10	6	HJ
	(CK-507-AX—Fil. Cont.—Depress B)							
CK-521-AX		3	1	20	48	10	6	HJ
	(CK-521-AX—Fil. Cont.—Depress B)							
CK-522-AX		3	1	22	50	10	6	HJ
	(CK-522-AX—Fil. Cont.—Depress B)							
CK-527-AX		3	1	26	43	10	6	HJ
	(CK-527-AX—OK Above 1/3 Scale) (CK-527-AX—Fil. Cont.—Depress B)							
CK-532-DX		3	1	11	44	10	8	HJ
	(CK-532-DX—OK Above 1/3 Scale) (CK-532-DX—Fil. Cont.—Depress D)							

Tube	Section	A	B	C	D	E	F	Depress
CK-536-AX		3	1	11	46	10	8	HJ
	(CK-536-AX—OK Above 1/3 Scale)							
	(CK-536-AX—Fil. Cont.—Depress D)							
CK-542-DX		3	1	25	50	10	6	HJ
	(CK-542-DX—Fil. Cont.—Depress B)							
CK-553-AXA		3	1	25	47	10	6	HJ
	(CK-553-AXA—Fil. Cont.—Depress B)							
CK-556-AX		2	1	20	15	1	1	H
	(CK-556-AX—Fil. Cont.—Depress C)							
CK-568-AX		2	1	15	23	1	1	H
	(CK-568-AX—Fil. Cont.—Depress C)							
CK-569-AX		3	1	25	47	10	6	HJ
	(CK-569-AX—Fil. Cont.—Depress B)							
CK-573-AX		2	1	10	26	11	1	H
	(CK-573-AX—Fil. Cont.—Depress C)							
585/586		3	7	37	6	1	1	B
CK-605-CX		1	6	12	30	9	8	HJ
	(CK-605-CX—Fil. Cont.—Depress C)							
CK-606-BX		7	6	0	25	10	1	H
	(CK-606-BX—Fil. Cont.—Depress B)							
CK-608-CX		4	6	18	20	11	8	H
	(CK-608-CX—Fil. Cont.—Depress C)							
CK-619-CX		3	6	14	20	1	1	H
	(CK-619-CX—Fil. Cont.—Depress B)							
717A		3	6	15	30	5	1	EF
	(717A—Must show short on B, D)							
	(717A—Cathode Short Test—Depress B-D together)							
801		3	7	30	10	1	1	B
802		4	6	24	25	3	1	CG
807-A/807		3	6	9	12	2	1	BG
809		3	6	17	30	1	1	G
811A		3	6	38	7	2	1	G
816		4	3	0	1	11	1	G
837		4	8	20	23	3	1	CG
841		3	7	42	8	12	1	B
842		3	7	45	5	12	1	B
843		3	3	30	10	1	1	B
864		3	1	27	18	1	1	B
866A		2	3	0	0	11	1	G
866 Jr		7	4	0	2	11	1	B
884		7	6	0	2	11	1	BD
885		7	3	0	2	11	1	BC
932		7	2	21	31	3	1	BC
950		3	2	29	20	4	1	BD
ACORN TUBE TEST DATA—USE ONLY PRECISION MODEL G-108 SPECIAL ADAPTER								
Top of Acorn tube under test must be on socket side of adapter								
954		4	6	20	33	2	1	BE
955		3	6	25	13	1	1	B
956		4	6	20	33	2	1	BE
957		3	1	24	22	1	1	B
	(957—Fil. Cont.—Depress A then BOTH A and F)							
958		3	1	27	10	1	1	B
	(958—Fil. Cont.—Depress A then BOTH A and F)							

Tube	Section	A	B	C	D	E	F	Depress
959		4	1	24	33	2	1	BE
	(959—Fil. Cont.—Depress A, F, then BOTH A, F)							
FM-1000	amp.	7	6	47	47	5	1	DE
"	osc.	2	6	16	8	1	1	G
	(FM-1000—Amp. Section OK above 1/3 scale)							
1005	plate-1	7	6	0	4	12	4	B
"	plate-2	7	6	0	4	12	4	D
	(1005—Fil. Cont.—Depress E)							
CK-1013		8	1	0	9	12	2	G
	(CK-1013—Must show short on A, B, F, J)							
	(CK-1013—May show short on C, E)							
	(CK-1013—Cathode Short Test—Depress A-B-F-J together)							
1201		7	6	0	28	1	8	CF
	(1201—Must show short on C, D, E, F, G, J)							
	(1201—Cathode Short Test—Depress BOTH D and E)							
	(1201—Grid Short Test—Depress BOTH G and J)							
	(1201—Plate Short Test—Depress BOTH C and F)							
1203		7	6	0	46	10	1	D
1204		7	6	15	31	9	4	CJ
	(1204—Fil. Cont.—Depress B)							
	(1204—Cathode Short Test—Depress A-D-E together)							
	(1204—Must show short on A, D, E)							
1206	sect.-1	7	6	23	27	3	1	CF
"	sect.-2	4	6	23	27	3	1	BC
1222A		3	6	7	13	2	5	JB
	(1222A—Fil. Cont.—Depress H)							
1231		5	6	5	36	3	1	BC
1232		5	6	5	40	3	1	BC
HY-1269		3	6	14	13	2	6	BG
	(HY-1269—Fil. Cont.—Depress A, J, then BOTH A-J)							
1273		5	6	15	33	3	1	BC
†1276		3	5	35	4	1	1	B
1280		5	8	15	33	3	1	BC
1282		5	6	10	38	3	1	BC
	(1282—Cathode Short Test—Depress BOTH D-F)							
1284		5	8	10	26	3	1	BC
1291	triode-1	3	1	17	18	1	6	B
"	triode-2	5	1	17	18	1	6	F
	(1291—Fil. Cont.—Depress A, J, then BOTH A-J)							
1293		5	1	20	18	1	1	B
1294	diode	7	1	0	25	10	1	D
1299		5	1	10	24	3	4	BC
	(1299—Fil. Cont.—Depress A, J, then BOTH A-J)							
1602		3	7	30	10	1	1	B
1603		7	6	11	40	3	1	BC
1609		3	1	20	30	4	1	BD
1610		3	3	28	16	4	1	BD
1611		4	6	25	18	3	1	BC
1612	input	7	6	25	11	1	1	C
"	output	4	6	12	50	3	1	BC
	(1612—Output OK above 1/3 Scale)							
1613		4	6	25	18	3	1	BC
1614		4	6	9	12	3	1	BC
1619		4	3	12	15	3	1	BC
1620		7	6	10	39	3	1	BC
1621		4	6	25	18	3	1	BC
1622		4	6	9	12	3	1	BC

LAST MINUTE TUBE RELEASES

TUBE	SECT	A	B	C	D	E	F	DEPRESS
3DG4	Plate-1	1	4	0	0	11	2	A
"	Plate-2	1	4	0	0	11	2	D
	(3DG4 - Fil Cont - Depress B)							
6AG6		4	6	23	15	3	1	BC
6CD7	Eye-1	7	6	0	0	3	1	DB
"	Eye-2	7	6	0	0	3	1	DE
	(6CD7 - See instructions for eye test)							
6CQ4		1	6	0	47	10	9	D
	(6CQ4 - Fil Cont - Depress F)							
6EV7	Triode-1	1	6	29	10	1	7	E
"	Triode-2	9	6	29	10	1	7	H
	(6EV7 - Fil Cont - Depress D)							
6FG5		1	6	11	50	1	7	E
	{ 6FG5 - Fil Cont - Depress D)							
	{ 6FG5 - Must show short on B,J)							
	{ 6FG5 - Cathode short test - Depress B,J together)							
	{ 6FG5 - Use diodes arc)							
6FH8	Triode	9	6	14	10	12	6	B
"	Tetrode-1	5	6	7	40	1	6	AG
"	Tetrode-2	5	6	0	43	1	6	AF
	Tetrode-3	5	6	0	42	1	6	AH
	{ 6FH8 - Fil Cont - Depress C)							
	{ 6FH8 - Tetrode 2 - Use "diodes" scale}							
	{ 6FH8 - Tetrode 3 - Use "diodes" scale}							
6GE8	Triode	2	6	0	6	8	7	E
"	Pentode	6	6	18	44	8	7	GH
	(6GE8 - Fil Cont - Depress D)							
6GM6		1	6	16	10	7	7	EF
	(6GM6 - Fil Cont - Depress D)							
6S2	CAUTION:- Pins 2,3,4,6,7,8,9 must be open							
"	circuited before inserting tube in socket							
	{ 6S2 - Fil Cont - Depress D)							
		1	6	0	16	12	2	G

TUBE	SECT	A	B	C	D	E	F	DEPRESS
8ET7	Pentode	1	7	14	22	6	7	FG
"	Diode-1	1	7	0	36	10	7	B
"	Diode-2	1	7	0	37	10	7	J
	(8ET7 - Fill Cont - Depress D)							
9AQ8	Triode-1	1	7	25	10	1	7	E
"	Triode-2	9	7	25	10	1	7	H
	(9AQ8 - Fill Cont - Depress D)							
12AC5		5	8	11	35	4	2	DJ
	{ 12AC5 - Fill Cont - Depress F)							
	{ 12AC5 - May show short on A,B)							
	{ 12AC5 - Cathode short test - Depress A,B together)							
35EH5		8	10	0	22	6	7	FJ
	{ 35EH5 - Fill Cont - Depress D)							
	{ 35EH5 - Must show short on B,E)							
	{ 35EH5 - Grid short test - Depress B,E together)							
38A3		1	10	0	42	10	7	EGH
	{ 38A3 - Fill Cont - Depress D)							
	{ 38A3 - May show short on E,G,H)							
	{ 38A3 - Plate short test - Depress E,G,H together)							
45A5		5	11	15	16	4	2	DJ
	{ 45A5 - Fill Cont - Depress F)							
	{ 45A5 - Must show short on A,B)							
	{ 45A5 - Cathode short test - Depress A,B together)							
6216		9	6	4	12	1	7	AEH
	{ 6216 - Fill Cont - Depress D)							
	{ 6216 - Must show short on B,E,F,H)							
	{ 6216 - Plate short test - Depress E,H)							
	{ 6216 - Cathode short test - Depress B,F together)							
6336A	Triode-1	3	6	0	46	10	9	D
"	Triode-2	8	6	0	46	10	9	J
	(6336A - Fill Cont - Depress F)							
7551		9	8	0	10	3	7	BFF
	{ 7551 - Fill Cont - Depress D)							
	{ 7551 - Must show short on B,F,G,H)							
	{ 7551 - Cathode short test - Depress H,G together)							
	{ 7551 - Screen short test - Depress B,F together)							

DRC ADDENDUM

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TUBE	SECT	A	B	C	D	E	F	DEPRESS
7558		9	6	2	10	3	7	BEF
		{7558 - Fil Cont - Depress D) {7558 - Must show short on B,F,G,H) {7558 - Cathode short test - Depress H,G together) {7558 - Screen short test - Depress B,F together)						
7581		4	5	26	10	11	1	BC
FOREIGN								
ECC-40	Triode-1	5	6	28	10	5	2	D
"	Triode-2	2	6	28	10	2	2	J
	(ECC-40 - Fil Cont - Depress F)							
ECC-91	Triode-1	5	6	16	13	7	6	B
"	Triode-2	6	6	16	13	7	6	A
	(ECC-91 - Fil Cont - Depress C)							
ECH-35	Triode	4	6	31	10	4	1	E
"	Hexode	7	6	16	10	12	1	BC
EL-33		4	6	23	15	3	1	BC
EL-91		1	6	18	22	9	7	EJ
	(EL-91 - Fil Cont - Depress D)							
EM-34	Eye-1	7	6	0	0	3	1	DB
"	Eye-2	7	6	0	0	3	1	DE
	(EM-34 - See instructions for eye tests)							
EY-86		CAUTION: - Pins 2,3,4,6,7,8,9 must be open						
"		circuited before inserting tube in socket.						
		1	6	0	16	12	2	G
	(EY-86 - Fil Cont - Depress D)							
UBF-15	Pentode	1	9	10	10	4	1	HE
"	Diode-1	1	9	0	29	10	1	D
"	Diode-2	1	9	0	29	10	1	C
	(UBF-15 - Fil Cont - Depress B)							
UF-15		1	9	5	35	5	1	DE
	(UF-15 - Fil Cont - Depress B)							

DRC ADDENDUM

TUBE	SECT	A	B	C	D	E	F	DEPRESS
UF-41		5	8	11	35	4	2	DJ
	{ UF-41 - Fil Cont - Depress F)							
	{ UF-41 - May show short on A,B)							
	{ UF-41 - Cathode short test - Depress A,B together)							
UL-41		5	11	15	16	4	2	DJ
	{ UL-41 - Fil Cont - Deprress F)							
	{ UL-41 - Must show short on A,B)							
	{ UL-41 - Cathode short test - Depress A,B together)							