

MODEL 801M TUBE TESTER - SET TESTER

Model 801M is a comprehensive Tube Tester - testing all types of tubes - octal and non-octal, loctal, cold cathode and ballast tubes. All tubes are tested under R M A voltages and loads.

The set tester features include A C and D C volts, current in milliamperes and amperes and resistance from .1 ohm to 10 megohms. In addition to this the instrument tests electrostatic condensers for leakage.

Our exclusive method of A C voltage measurements eliminate the frequency and temperature errors inherent with copper oxide rectifiers.

A 6H6 tube is used for all rectification. When making any tube replacement, the tube should be aged for about 4 hours before using.

All ohmmeter ranges are line operated with the exception of the 100M ohm range. This battery operated range has been included in order that the user might be able to check resistances in places where no A C outlet is conveniently available. It is also used for checking inductive resistances.

A $1\frac{1}{2}$ V cell having red and black tracer wires connected to it, is mounted under the lid in the partition and acts as a compensator for the 6H6 tube. It need not be replaced under normal usage for about 1 year.

The other $1\frac{1}{2}$ V cell having red and black wires connected to it is used for the operation of the 100M ohm range. This cell should be replaced when it is no longer possible to adjust for full scale deflection on this range.

The instrument is protected by a double fused plug with 1 amp fuses in each side of the line.

The meter itself is protected against burn out or damage by a meter fuse which is mounted on the resistor strip underneath the panel. The fuse will not blow under overloads which are not sufficient to damage the meter. If the meter does not operate on any range, the fuse should be replaced with a 1/16 amp Littelfuse.

A meter reversing switch makes it possible to reverse the meter polarity instantly without the necessity of changing any connection when making voltage or current measurements. The switch should normally be set at "K" position.

When the "Filam-Range Select" is set at "L.O." and the "Circuit Selector" at "L.O.X 10 - 10 Meg", the meter pointer will go off scale. To prevent this from happening, this particular combination of switch settings should be avoided.

IMPORTANT: DO NOT REPLACE METER FUSE WITH ANY OTHER VALUE THAN 1/16 AMPERE --- OTHERWISE YOU MAY BURN OUT THE METER--OR INTRODUCE AN ERROR IN RESULTS.

Operating Instructions and Test Data

1. BEFORE TESTING A TUBE:

- (a) Set "L.V. Control" to "off" position
- (b) Connect line cord to suitable A.C. Supply

2. Refer to tube chart for the tube to be tested and:-

- (a) Set "Filam.-Range Selector" switch to position listed on chart
- (b) Set shunt control to position indicated.
- (c) Insert tube into proper socket. All tubes are tested by keeping the A-B switch in the "A" position unless the tube chart indicates otherwise.
- (d) Set "Polarity SW." to "N" position
- (e) Turn "Circuit Selector" switch to "L.V." position and turn "L.V. Control" about a quarter turn. Wait a few seconds for the 6H6 tube to heat, then adjust "L.V." Control until meter pointer coincides with arrow in center of dial.

3. SHORT AND LEAKAGE TEST:

- (a) Set "Circuit Selector" switch to "SH." position and rotate the "Tube Selector" switch from "A to G". A permanent glow of the neon lamp at any position indicates a short or leakage in the tube. Cathode leakage, if the tube has any, will also be indicated in this manner. Disregard any momentary glow that immediately disappears.

4. QUALITY TEST:

- (a) Tubes followed by (N) are tested by keeping the "Polarity Sw." at N position; and those tubes followed by (R) are tested by setting "Polarity Sw." at "R" position.
- (b) Set "Tube Selector" switch to setting indicated on chart.
- (c) Set "Circuit Selector" switch at proper position as indicated on the tube chart. The meter will then indicate whether the tube is "Good" or "Poor" - If a tube has more than one listing, test each tube section separately.

5. NOISE TEST:

After completing the quality test, turn Shunt Control to 100 and connect an earphone with a phone plug attachment to the phone jack marked "Noise". A steady hum will be heard. If tapping the tube with the fingers produces an additional click in the earphone, the tube is noisy. Repeat this procedure for points A, B, C, D, E, F and G on the "Tube Selector" switch.

6. BALLAST TUBES AND COLD CATHODE TUBES:

(See Ballast Tube and Cold Cathode Tube Sheet)

Use as a Condenser Leakage Tester

Set "Circuit Selector" switch at "C.L." position and connect the condenser between the "common" and "+" jacks. Connect line cord to suitable A.C. supply. A permanent glow of the neon lamp indicates a leaky condenser. A temporary glow that quickly disappears indicates a satisfactory condenser. This test applies only to electrostatic condensers.

Use as a Multitester

The range Selector and Filament Voltage switch are combined in one switch in order to reduce the number of controls and panel size. When making any measurement, always use the range of the instrument that gives the highest reading of the meter (largest deflection) in order to obtain the highest degree of accuracy.

If the approximate value of the voltage, resistance or current is not known, first use the highest range to determine the value and then use the range most suitable for greatest meter deflection.

1. TO MEASURE D.C. VOLTS:

- (a) Set "Circuit Selector" switch to "DCV" position and "Filam. Range Select" switch to desired voltage range. Insert the tip ends of the test probes into the tip jacks marked "Common" and "+" and apply the test probe to the points across which the voltage is to be measured. If the meter reads backwards, simply rotate the "Polarity Sw" from "N" to "RN".

There are four D.C. voltage ranges, each having a sensitivity of 1000 ohms per volt. The 0-50 and 0-10 volt ranges are marked directly on the meter dial. For the 1000 volt range add two zeroes (multiply by 100) to the 0-10 scale; for the 500 volt range add one zero (multiply by 10) to the 50V scale. For example, if the pointer indicates 30 on the 0-50 volt scale, and the "Filam.-Range Select" switch is at 500 V position, the actual reading is 300 volts.

2. TO MEASURE D.C. CURRENT:

Turn the "Circuit Selector" to "M A" position and the "Filam.-Range Select" switch to the desired current ranges. Insert the test probes into the two tip jacks marked "common" and "+" and connect in series with the line in which the current is to be measured. Use the jacks marked "10 AMP" when using the 10 ampere range. To use the IMA meter range set "Circuit Selector" switch to "DCV" position and use the "common" and "L.O." jacks. The "Filam.-Range Select" switch may be left at any position.

3. TO MEASURE RESISTANCE (OHMS)

(a) Low Ohms 0-500

Connect line cord to suitable A.C. supply. Turn "Circuit Selector" switch to "1 MEG - L.O." position and "Filam.-Range Selector" switch to "L.O." position. Rotate "L.V. control" until the pointer reads full scale. The circuit is now balanced for accurate measurements. Connect the resistance to be measured across the jacks marked "common" and "L.O." If test probes are used on measurements of 2 ohms or less, the resistance of the test probes should be subtracted from the reading obtained. Simply short the test leads in order to determine their resistance. Resistance value is read direct on the "Low Ohms" scale.

(b) L.O. x 10 - 0 -5000 ohms

Connect line cord to suitable A.C. supply. Turn "Circuit Selector" switch to "10 MEG - L.O.X10" position and "Filam.-Range Select" switch to "L.O. X10" position. Rotate "L.V. Control" until the pointer reads full scale. Connect the resistance to be measured across the jacks marked "common" and "L.O." Resistance values are read on the "Low Ohms" scale and multiplied by 10.

(c) 1 MEG Range

Connect line cord to suitable A.C. supply. Turn "Circuit Selector" switch to "1 MEG - L.O." position and "Filam.-Range Selector" to 1 MEG" position. Insert test probes into "common" and "+" jacks. Short the test probes together and rotate "L.V. Control" until meter reads full scale. The abbreviation "M" stands for 1000; thus 5M is 5000 ohms.

(d) 10 MEG Range

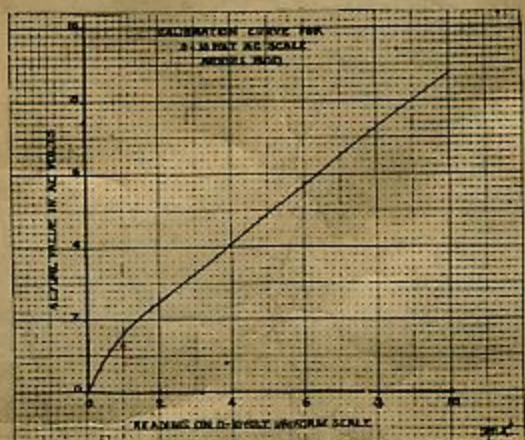
Connect line cord to suitable A.C. supply. Turn "Circuit Selector" switch to "10 MEG -L.O.X10" position and "Filam.-Range Selector" to "10 MEG" position. Insert test probes into "common" and "+" jacks. Short the test probes together and rotate "L.V. Control" until meter reads full scale. Resistance readings are taken on the "High Ohms" scale and multiplied by 10 to get true ohms value.

(e) 100M Range

Set "Circuit Selector" to "100M- SH" short. The Range Selector may be left in any position. Insert test probes into "common" and "+" jacks. Short the test probes and rotate "Shunt Control" until meter reads full scale. Resistance readings are taken on the "High Ohms" scale and divided by 10 to get true ohms value. It is not necessary to plug line cord into any A.C. supply in order to use this range.

4. TO MEASURE A.C. VOLTS

Connect the line cord to suitable A.C. supply and rotate "L.V. Control" about a half turn. Turn "Circuit Selector" to ACV" position and "Filam.-Range Selector" to range desired. Allow about 30 seconds for the tube to heat up. There are four A.C. Volt ranges, ie, 0-10, 0-50, 0-500 and 0-1000 volt. Readings are made direct on the uniform meter scales, except when using the 0-10 range. For the 0-10 volt range use the calibration curve below. Use the "common" and "+" jacks for making measurements.



Reading on 10 volt uniform scale

Series 1-12-40

5. TO USE INSTRUMENT AS AN OUTPUT METER

Instructions are same as for "A.C. Volts" measurements except that a .25 mfd condenser or higher is connected externally in series with one of the A.C. lines.

DECIBEL MEASUREMENTS

Use instrument exactly as an A.C. voltmeter.

Meter dial marking is for the 0-10 volt range and for a 500 ohm impedance line.

When using the 0-50 volt range add +14DB to the meter reading.

For the 0-500 volt range add +34DB to the meter reading, and

for the 0-1000 volt reading add +40DB to the meter reading.

Correction table for various impedance values is given below:

LINE LOAD IMPEDANCE	5 ohm	50 ohm	100 ohm	200 ohm	400 ohm	600 ohm	1000 ohm
CORRECTION FACTOR	+20 DB	+10 DB	+7 DB	+4 DB	+1 DB	-8 DB	-3 DB

For example: on a 200 ohm line the 50 volt range is used and the meter indication is 9DB. Since the correction factor for a 200 ohm line is +4DB, the true value is +9 +4 +14 = 27DB.

GUARANTEE

This instrument is guaranteed to be free from any defect in material and workmanship that may develop within a period of 90 days from date of purchase under the terms of the standard RMA guarantee. Any part or parts that prove defective within this period will be replaced without charge when subjected to examination at our factory providing such defect is, in our opinion, due to faulty workmanship or material, and not caused by tampering, abuse or normal wear.

Radio City Products Company, Inc. reserves the right to make changes in design or add improvements to instruments manufactured by them without incurring any obligation to install such changes or improvements in any instrument previously purchased.

Tube Chart #1

Series 6-6-39

SERIAL NO.-----

The A-B switch is kept in the "A" position unless tube chart indicates otherwise.

Tubes followed by (K) are tested by keeping the "Polarity SW," at N position.

Tubes followed by (F) are tested by setting "Polarity SW." at R position.

"G", "MG", and "GT" tubes are equivalent to the metal tubes of the same type; ie 25Z6G has exactly the same settings as 25Z6.

Tube Type	Fila-ment	Shunt Control	Tube Select.	Circuit Selector	Tube Type	Fila-ment	Shunt Control	Tube Select	Circuit Selector	Tube Type	Fila-ment	Shunt Control	Tube Select.	Circuit Selector
00K(F)	5	80	C	Regular	59(K)	5	78	A	Regular	AF(F)	3	82	C	Regular
01A(F)	5	60	C	Regular	70(K)	5	78	A	Regular	AG(F)	5	83	B	Regular
1V(K)	6	83	C	Regular	71(F)	5	61	C	Regular	AO(F)	5	83	C	Regular
10(F)	6	61	C	Regular	71A	5	61	C	Regular	AX(F)	5	60	C	Regular
12A(F)	5	63	C	Regular	75(K)	6	80	A	Regular	D ₁ (F)	6	60	B	Regular
14(K)	7	77	A	Regular	75(F)	6	50	C	Diode	DEI(K)	3	75	A	Regular
15(K)	2	55	A	Batt.Op.	75(F)	6	50	D	Diode	E(F)	4	30	C	Regular
17(K)	7	75	A	Regular	76(K)	6	75	A	Regular	H(F)	5	60	C	Regular
18(K)	7	78	A	Regular	77(K)	6	80	A	Regular	LA(F)	6	68	C	Regular
19(F)	2	56	C	Batt.Op.	78(K)	6	83	A	Regular	PZ(F)	3	63	C	Regular
19(F)	2	56	D	Batt.Op.	79(F)	6	77	C	Regular	PZH(K)	3	78	A	Regular
20(F)	4	30	C	Regular	79(F)	6	77	G	Regular	Wunda(K)	3	75	A	Regular
22(F)	4	10	G	Batt.Op.	80(F)	5	63	B	Regular	Wunda(K)	6	75	A	Regular
24A(K)	3	78	A	Regular	80(F)	5	63	C	Regular	1A4(F)	2	52	G	Batt.Op.
253(F)	2	52	A	Batt.Op.	81(F)	6	60	B	Regular	1A6(F)	2	30	D	Batt.Op.
253(F)	2	50	C	Diode	82(F)	3	82	B	Regular	1B4(F)	2	52	C	Batt.Op.
253(F)	2	50	D	Diode	82(F)	3	82	C	Regular	1B5(F)	2	52	A	Batt.Op.
26(F)	1	62	C	Regular	83(F)	5	84	B	Regular	1B5(F)	2	50	C	Diode
27(K)	3	75	A	Regular	83(F)	5	84	C	Regular	1B5(P)	2	50	D	Diode
29(K)	3	78	A	Regular	84(F)	6	84	B	Regular	1C4(F)	2	52	G	Batt.Op.
30(F)	2	50	C	Batt.Op.	84(F)	6	84	C	Regular	1C6(F)	2	30	D	Batt.Op.
31(F)	2	47	C	Batt.Op.	084(F)	3	62	B	Regular	1C7G(F)	2	30	D	Batt.Op.
32(F)	2	52	G	Batt.Op.	85(K)	6	76	A	Regular	1D4(F)	2	54	C	Batt.Op.
33(F)	2	58	C	Batt.Op.	85(F)	6	50	C	Diode	1D5G(F)	2	52	C	Batt.Op.
34(F)	2	52	G	Batt.Op.	85(F)	6	50	D	Diode	1D7G(F)	2	30	D	Batt.Op.
35(K)	3	78	A	Regular	88(F)	5	74	B	Regular	1E4G(F)	1	55	D	Batt.Op.
36(K)	6	75	A	Regular	88(F)	5	84	C	Regular	1E5G(F)	2	52	G	Batt.Op.
37(K)	6	75	A	Regular	89(K)	6	78	A	Regular	1E7G(F)	2	55	C	Batt.Op.
38(K)	6	75	A	Regular	90(K)	3	78	A	Regular	1E7G(F)	2	56	D	Batt.Op.
39(K)	6	75	A	Regular	92(K)	6	78	A	Regular	1F4(F)	2	54	C	Batt.Op.
40(F)	5	60	C	Regular	95(K)	3	78	A	Regular	1F50(F)	2	54	D	Batt.Op.
41(K)	6	78	A	Regular	98(F)	6	84	B	Regular	1F6(F)	2	52	C	Batt.Op.
42(K)	6	78	A	Regular	98(F)	6	84	C	Regular	1F6(F)	2	35	A	Diode
43(K)	6	78	A	Regular	X99(F)	4	10	C	Batt.Op.	1F6(F)	2	35	D	Diode
44(K)	6	78	A	Regular	182A(F)	5	61	C	Regular	1F7G(F)	2	52	G	Batt.Op.
45(F)	3	63	C	Regular	182B(F)	5	61	C	Regular	1F7G(F)	2	35	C	Diode
46(F)	3	65	C	Regular	183(F)	5	61	C	Regular	1F7G(F)	2	35	D	Diode
47(F)	3	63	C	Regular	213(F)	5	65	C	Regular	1G4G(F)	1	54	D	Batt.Op.
48(K)	6	83	A	Regular	213(F)	5	65	C	Regular	1G5C(F)	2	55	D	Batt.Op.
49(F)	2	58	C	Batt.Op.	216(F)	6	60	B	Regular	1G6G(F)	1	54	C	Batt.Op.
50(F)	6	61	C	Regular	401A(F)	5	60	C	Regular	1G6G(F)	1	54	D	Batt.Op.
51(K)	3	78	A	Regular	450(F)	6	61	C	Regular	1H4G(F)	2	52	D	Batt.Op.
52(F)	6	63	C	Regular	482A(F)	5	61	C	Regular	1H6G(F)	2	52	E	Batt.Op.
53(F)	3	75	C	Regular	483(F)	5	61	C	Regular	1H6G(F)	2	50	C	Diode
53(F)	3	75	E	Regular	485(K)	4	78	A	Regular	1H6G(F)	2	50	D	Diode
55(K)	3	73	A	Regular	585(F)	6	61	C	Regular	1J6G(F)	2	54	C	Batt.Op.
55(F)	3	50	C	Diode	586(F)	6	61	C	Regular	1J6G(F)	2	54	D	Batt.Op.
55(F)	3	50	D	Diode	861(F)	6	84	B	Regular	1N6G(F)	1	54	D	Batt.Op.
56(K)	3	72	A	Regular	861(F)	6	84	C	Regular	1N6G(F)	1	10	E	Diode
56AS(K)	6	78	A	Regular	885(K)	3	85	A	Regular	1Q5G(F)	1	59	D	Batt.Op.
57(K)	3	80	A	Regular	950(F)	2	54	C	Batt.Op.	2A3(F)	3	75	C	Regular
57AS(K)	6	80	A	Regular	951(F)	2	52	G	Batt.Op.	2A4G(F)	3	84	D	Regular
58(K)	3	78	A	Regular	985(F)	5	84	B	Regular	2A5(F)	3	78	A	Regular
58AS(K)	6	78	A	Regular	985(F)	5	84	C	Regular	2A6(K)	3	81	A	Regular
59(K)	3	78	A	Regular	986(F)	5	84	B	Regular	2A6(F)	3	50	C	Diode
64(K)	6	75	A	Regular	986(F)	5	84	C	Regular	2A6(F)	3	50	D	Diode
65(K)	6	75	A	Regular	160B(F)	3	80	C	Regular	2A7(K)	3	80	A	Regular
67(K)	6	75	A	Regular	AD(K)	6	83	C	Regular	2B6(K)	3	80	A	Regular
68(K)	6	75	A	Regular	AF(F)	3	82	D	Regular	2B6(K)	3	60	E	Regular
					856(F)	3	86	G	Regular					

o Tube is O. K. if reading is over Diode line.

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RADIO CITY PRODUCTS COMPANY

88 Park Place

New York, N. Y.

Tube Type	Fila-ment	Shunt Control	Tube Select.	Circuit Selector	Tube Type	Fila-ment	Shunt Control	Tube Select.	Circuit Selector	Tube Type	Fila-ment	Shunt Control	Tube Select.	Circuit Selector
2B7(K)	3	77	A	Regular	6C8(K)	6	80	A	Regular	6V8G(K)	6	84	A	Regular
2B7(F)	3	50	D	Diode	6C7(K)	6	80	A	Regular	6V7G(K)	6	78	A	Regular
2B7(F)	3	50	E	Diode	6C7(F)	6	50	D	Diode	6V7G(F)	6	50	C	Diode
2E5(K)	3	65	A	Regular	6C7(F)	6	50	E	Diode	6V5G(F)	6	82	D	Regular
2G5(E)	3	65	A	Regular	6C8(K)	6	78	C	Regular	6V5G(F)	6	82	D	Regular
2G5(F)	3	50	B	Diode	6C8(K)	6	78	A	Regular	6V7G(K)	6	82	A	Regular
2G2(F)	3	50	C	Diode	6D5(K)	6	78	A	Regular	6X5(F)	6	78	B	Regular
2Y2(F)	3	10	G	Diode	6D6(K)	6	78	A	Regular	6X5(F)	6	78	D	Regular
2W3(F)*	3	65	C	Regular	6D7(K)	6	82	A	Regular	6Y5(F)	6	82	..	Regular
2Z2(F)	3	62	B	Regular	6D8G(K)	6	78	A	Regular	6Y5(F)	6	82	C	Regular
04S(F)	3	50	B	Diode	6E5(K)	6	65	A	Regular	6Y5(F)	6	85	A	Regular
04S(F)	3	50	C	Diode	6E6(F)	6	65	C	Regular	6Y7G(F)	6	77	C	Regular
KR5(F)	6	68	C	Regular	6E6(F)	6	65	E	Regular	6Y7G(F)	6	77	D	Regular
5T4(F)*	5	79	C	Regular	6E7(K)	6	82	A	Regular	6Y7G(F)	6	83	C	Regular
5T4(F)*	5	79	E	Regular	6F5(K)	6	78	A	Regular	6Z4(F)	6	84	B	Regular
5U4G(F)*	5	78	C	Regular	6F6(K)	6	78	A	Regular	6Z4(F)	6	84	C	Regular
5U4G(F)*	5	78	E	Regular	6F7(K)	6	82	A	Regular	6Z5(F)	6	82	A	Regular
5V4G(F)*	5	84	C	Regular	6F8(K)	6	82	A	Regular	6Z5(F)	6	82	C	Regular
5V4G(F)*	5	84	E	Regular	6F8G(K)	6	82	B	Regular	6Z7G(F)	6	77	C	Regular
5W4(F)*	5	68	C	Regular	6G5(K)	6	65	A	Regular	6Z7G(F)	6	77	D	Regular
5W4(F)*	5	68	E	Regular	6G6G(K)	6	80	A	Regular	6Z5G(F)	6	76	E	Regular
5X3(F)	5	65	B	Regular	6H5(K)	6	65	A	Regular	6Z5G(F)	6	76	D	Regular
5X3(F)	5	65	C	Regular	6H6(F)	6	57	B	Diode	7A4(K)	6	83	A	Regular
5X3(F)	5	65	D	Regular	6H6(F)	6	57	D	Diode	7A6(P)	6	57	C	Diode
5X4G(F)	5	75	B	Regular	6J5G(K)	6	83	A	Regular	7A6(P)	6	57	E	Diode
5X4G(F)	5	75	E	Regular	6J7(K)	6	78	A	Regular	7A7(K)	6	80	A	Regular
5Y3(F)*	5	65	C	Regular	6J8G(F)	6	78	G	Regular	7A8(K)	6	77	A	Regular
5Y3(F)*	5	65	E	Regular	6J8G(K)	6	83	A	Regular	7B5(K)	6	80	A	Regular
5Y4G(F)	5	75	B	Regular	6K5G(K)	6	83	A	Regular	7B6(F)	6	80	C	Regular
5Y4G(F)	5	75	D	Regular	6K6G(K)	6	78	A	Regular	7B6(F)	6	55	E	Diode
5Z3(F)	5	75	B	Regular	6K7(K)	6	78	A	Regular	7B7(K)	6	78	A	Regular
5Z3(F)	5	75	C	Regular	6K8(F)	6	85	D	Regular	7B8(K)	6	82	A	Regular
5Z4(F)*	5	78	C	Regular	6K8(K)	6	86	A	Regular	7C5(K)	6	82	A	Regular
5Z4(F)*	5	78	E	Regular	6L5G(K)	6	70	A	Regular	7C6(F)	6	75	C	Regular
6A3(F)	6	77	C	Regular	6L6(K)	6	80	A	Regular	7C6(F)	6	55	E	Diode
6A4(F)	6	68	C	Regular	6L7(K)	6	82	A	Regular	7C7(K)	6	82	A	Regular
6A5G(F)	4	70	D	Regular	6N5(K)	6	80	A	Regular	7E6(K)	6	80	A	Regular
6A65(K)	6	75	A	Regular	6N6G(K)	6	78	A	Regular	7E6(F)	6	50	E	Diode
6A66(K)	6	66	A	Regular	6N7(F)	6	77	C	Regular	7Y4(F)	6	78	C	Regular
6A66(F)	6	59	D	Regular	6N7(F)	6	77	D	Regular	7Y4(F)	6	78	E	Regular
6AC5G(E)	6	78	A	Regular	6P5(K)	6	75	A	Regular	1231(K)	6	87	A	Regular
6AD5(K)	6	81	A	Regular	6P7G(K)**	6	75	A	Regular	12A5(K)	7	78	E	Regular
6AE5(K)	6	82	A	Regular	6Q6G(K)	6	80	A	Regular	12A7(K)	7	84	D	Regular
6A6(F)	6	78	C	Regular	6Q6G(F)	6	50	C	Diode	12A7(K)	7	70	A	Regular
6A6(F)	6	78	E	Regular	6Q6G(F)	6	50	D	Diode	12A8(K)	7	80	A	Regular
6AF6(K)	6	50	A	cold K	6Q7G(K)	6	82	A	Regular	12B8(K)	7	82	E	Regular
6A7(L)	6	80	A	Regular	6Q7G(F)	6	50	C	Diode	12B8(F)	7	80	G	Regular
6A8(K)	6	80	A	Regular	6R6(K)	6	75	A	Regular	12C8(E)	7	73	A	Regular
6B4G(F)	6	77	D	Regular	6Q7G(F)	6	50	D	Diode	12C8(F)	7	50	C	Diode
6B5(K)	6	75	A	Regular	6R7(F)	6	50	C	Diode	12C8(F)	7	50	D	Diode
6B6(K)	6	79	A	Regular	6R7(F)	6	50	D	Diode	12F5(K)	7	78	A	Regular
6B6(F)	6	50	C	Diode	6R7(K)	6	80	A	Regular	12J7(K)	7	78	A	Regular
6B6(F)	6	50	D	Diode	6R7(K)	6	80	A	Regular	12K7(K)	7	78	A	Regular
6B7(K)	6	79	A	Regular	6S7G(K)	6	78	A	Regular	12Q7(F)	7	80	A	Regular
6B7(F)	6	50	D	Diode	6T5(K)	6	67	A	Regular	12Q7(F)	7	50	C	Diode
6B7(F)	6	50	E	Diode	6T7G(K)	6	81	A	Regular	12Q7(F)	7	50	D	Diode
6B8(K)	6	74	A	Regular	6T7G(F)	6	50	C	Diode	12S47(K)	7	85	E	Regular
6B8(F)	6	50	C	Diode	6T7G(F)	6	50	D	Diode	xxx12SC7(K)	7	82	E	Regular
6B9(F)	6	50	D	Diode	6U5(K)	6	67	A	Regular					
6C5(K)	6	78	A	Regular	6U7G(K)	6	80	A	Regular					

5T4 - A.

* Set the A-B switch to "B" position. When testing any of the 5 volt tubes for shorts, a permanent neon glow at position "A" does not indicate a shorted tube.

** Set A-B switch to "B" position. When making short test disregard a permanent neon glow at position "B".

xx A glow at position "D" does not indicate a shorted tube.

xxx A permanent glow at position "A" does not indicate a shorted tube.

RADIO CITY PRODUCTS COMPANY

88 Park Place

New York, N. Y.

TUBE CHART FOR OPERATING MODEL 801 AND MODEL 308
TUBE TESTERS

Tube Chart #3

Series 1-12-40

SERIAL NO. _____

Tube Type	Fila-ment	Shunt Control	Tube Select	Circuit Selector
12SJ7(K)	7	78	D	Regular
12SK7(K)	7	78	D	Regular
12SQ7(K)	7	80	B	Regular
12SQ7(F)	7	50	C	Diode
12SQ7(F)	7	50	D	Diode
12Z3(K)	7	85	C	Regular
12Z5(F)	6	82	C	Regular
12Z5(F)	6	82	A	Regular
14Z3(K)	7	85	C	Regular
25AC5(K)	8	78	A	Regular
25A6(K)	8	84	A	Regular
25A7G(F)	8	84	E	Regular
25A7G(K)	8	77	A	Regular
25B5(K)	8	75	A	Regular
25B5(F)	8	60	D	Regular
25B6G(K)	8	85	A	Regular
25D8(F)	8	80	D	Regular
25D8(F)	8	80	G	Regular
25D8(F)	8	55	A	Diode
25L6(K)	8	88	A	Regular
25N6(K)	8	77	A	Regular
25N6(F)	8	62	D	Regular
25X6(K)	8	80	A	Regular
25X6(K)	8	80	C	Regular
25Y4(F)	8	85	D	Regular
25Y5(F)	8	85	A	Regular
25Y5(F)	8	85	B	Regular
25Z3(K)	8	85	C	Regular
25Z4(F)	8	85	D	Regular
25Z5(F)	8	85	A	Regular
25Z5(F)	8	85	B	Regular
25Z6(F)	8	85	B	Regular
25Z6(F)	8	85	D	Regular
32L7(F)	8	82	D	Regular
32L7(F)	8	85	E	Regular
35A5(K)	8	85	A	Regular
35L6(K)	8	86	A	Regular
35Z3(K)	8	85	A	Regular
35Z4(K)	8	87	A	Regular
35Z5(K)	8	87	A	Regular
40Z5(K)	9	87	A	Regular
45Z5(K)	9	87	A	Regular
50L6(K)	9	85	A	Regular
70L7(F)	10	85	A	Regular
70L7(K)	10	87	E	Regular

SETTINGS FOR 1.4 VOLT TUBES

1A5G(F)	1	50	D	B.O.
1A7G(F)	1	40	D	B.O.
1C5G(F)	1	55	D	B.O.
1E4G(F)	1	55	D	B.O.
1H5G(F)	1	45	G	B.O.
1H5G(F)	1	45	D	Diode
1G4G(F)	1	54	D	B.O.
1G6G(F)	1	54	C	B.O.
1G6G(F)	1	54	D	B.O.
1N5G(F)	1	55	G	B.O.
1N6G(F)	1	54	D	B.O.
1N6G(F)	1	10	E	Diode
1Q5G(F)	1	59	D	B.O.

SETTINGS FOR 6 VOLT SINGLE ENDED TUBES

6SA7(K)	6	85	E	Reg.
*** 6SC7(K)	6	82	E	Reg.
6SK7(K)	6	78	D	Reg.
6SJ7(K)	6	73	D	Reg.
*** 6SQ7(K)	6	80	B	Reg.
6SQ7(F)	6	50	C	Diode
6SQ7(F)	6	50	D	Diode
*** 6SF5(F)K	6	80	E	Reg.

*** A permanent glow at position "A" does not indicate a shorted tube.

SETTINGS FOR LATEST TUBES

1LB4(F)	1	52	E	B.O.
1D8(F)	1	54	D	B.O.
3Q5GT(F)	1	55	D	B.O.
**6AD6 (cold K)			A	
6AF5(K)	6	84	A	Reg.
7A5(K)	6	86	A	Reg.
7B8(K)	6	80	A	Reg.
1232(K)	6	87	A	Reg.
1851(K)	6	86	A	Reg.
1852(K)	6	88	D	Reg.
1853(K)	6	86	D	Reg.
12B7(F)	7	75	E	Reg.
25B8(F)	8	80	G	Reg.
25B8(K)	8	82	E	Reg.
25C6(K)	8	85	A	Reg.
*70A7GT(K)	10	86	F	Reg.
*70A7GT(K)	10	84	A	Reg.
117Z6(F)	9	85	B	Reg.
117Z6(F)	9	85	D	Reg.

o A permanent glow at position "A" does not indicate a shorted tube.

Additions to settings on page 2

6A7(F)	6	75	E	Reg.
6A8(F)	6	73	D	Reg.

* Use "S" socket on 308. Set A-B switch to "B" position on 801.
** Tube is good if reading is over diode line.

8120

LATEST TUBE SETTINGS FOR MODELS 801M
Series 12/20/39

<u>Tube Type</u>	<u>Fila-ment</u>	<u>Shunt Control</u>	<u>Tube Select</u>	<u>Circuit Selector</u>
<u>1.4V LOCTAL TUBES</u>				
1LA4 (F)	1	54	E	BATT. OP.
1LA6 (F)	1	50	D	BATT. OP.
1LH4 (F)	1	20	D	DIODE
1LH4 (F)	1	55	E	BATT. OP.
1LN5 (F)	1	55	E	BATT. OP.

7V LOCTAL TUBES

7A5 (K)	6	85	A	REGULAR
7E7 (K)	6	73	A	REGULAR
7E7 (F)	6	50	C	DIODE
7E7 (F)	6	50	D	DIODE
7F7 (K)	6	78	B	REGULAR
7F7 (K)	6	78	A	REGULAR
7J7 (F)	6	77	E	REGULAR
7J7 (K)	6	82	A	REGULAR
14H7-7H7	6	85	A	"

NEW TUBES

1B7 (F)	1	54	D	BATT. OP.
1P5 (F)	1	52	G	BATT. OP.
1T5 (F)	1	55	D	BATT. OP.
3A8 (F)	1	50	A	DIODE
3A8 (F)	1	55	D	BATT. OP.
* 2X2/879 (F)	3	10	G	REGULAR
7Q7 (K)	6	83	A	REGULAR
50C6 (K)	9	85	A	REGULAR
117L7 (F)	11	84	E	REGULAR
117L7 (K)	11	84	A	REGULAR

* Tube is good if reading is beyond "DIODE" marking. 504.6 G/G 9 85 BTD REGULAR . RECT. (DOUBLE)

MINIATURE TUBES SETTINGS

1S5 (F)	1	50	C	DIODE
1S5 (F)	1	50	E	BATT. OP.
1S4 (F)	1	54	C	BATT. OP.
1T4 (F)	1	53	E	BATT. OP.
1R5 (F)	1	50	D	BATT. OP.

Turn "Circuit Selector" to "short" position; "Filament - Range Select." to "B.T." position. Insert Ballast tube into proper socket and set "Tube Selector" to position indicated on chart. The neon lamp should glow. If it does not, the tube is defective.

Type	Tube Selector	Type	Tube Selector	Type	Tube Selector	Type	Tube Selector
1-1	A	5	A	15-10	C	140R8	C
1A1	A	5-1	A	15-20	C	150	C
1A2	B	5-16	C	18-10	C	155	C
1A2	C	5-150	C	20-A-5	C	158	C
1-A-5	C	5-220	C	22-10	C	165R	A
1B1	A	5-A-5	C	30	B	165R4	A
1B2	B	5E1	A	30	C	165R4	C
1B2	C	5H-1	A	31	B	165R8	A
1C1	A	5H-5	C	31	C	165R8	C
1C2	D	5H-220	C	038	C	165R8	C
1C2	C	6	A	42A1	A	185R	A
1D1	A	6-1	A	42A1	C	185R4	A
1E1	A	6-20	C	42A2	A	185R4	C
1F1	A	6AA	A	42A2	C	185R8	A
1G1	A	6-A5	C	42B2	A	185R8	C
1J1	A	6H-1	A	42B2	C	218	C
1H-1	A	D6-1	A	46A1	A	313	C
1K1	A	7	A	46B1	A	314	C
1L1	A	7-1	A	49A1	A	315	C
1M1	A	7-20	C	49A1	C	415	C
1P1	A	7-150	C	49B2	A	425	C
1Q1	A	7-A-5	C	49B2	C	449	C
1R1G	A	7H-1	A	52	B	460	C
1S1G	A	8	A	52	C	538	C
1T1G	A	8-A-5	C	55A1	A	838	C
1Y1	A	9	A	55A1	C	874	C
1Z1	A	9-20	C	55A2	A		
2	A	9-150	C	55A2	C		
2-A-5	C	9-A-5	C	55B2	A		
2H-1	A	10-10	C	55B2	C		
2H-5	C	10AB	A	98	C		
3	A	10-A-5	C	100	C		
3-1	A	10V10	C	105	C		
3-150	C	11-10	C	106	C		
3-A-5	C	11-20	C	110	C		
3H-1	A	11-150	C	118	C		
3H-220	C	11-A-5	C	125	C		
4	A	12-20	C	126	C		
4-1	A	13-10	C	130	C		
4-220	C	13-20	C	140R	A		
4-A-5	C	13-A-5	C	140R4	A		
4H-5	C	14-20	C	140R4	C		
4H-220	C	14-A-5	C	140R8	A		

If a tube is not listed on this tube chart, rotate the "tube selector" switch from A to G. If the neon lamp does not glow in at least one position of the "tube selector" switch, the tube is defective.

COLD CATHODE TUBES

Adjust for line voltage with line voltage control. Insert tube in proper socket and proceed as for testing normal tubes.

Tube Type	Fila - ment	Shunt Control	Tube Select.	Circuit Selector
OA4G(F)	6P	63	D	Cold K.
BH(F)	B.T.	62	A	Cold K.
BR(F)	B.T.	63	A	Cold K.
OZ3(K)	B.T.	61	A	Cold K.
OZ4(K)	B.T.	61	A	Cold K.