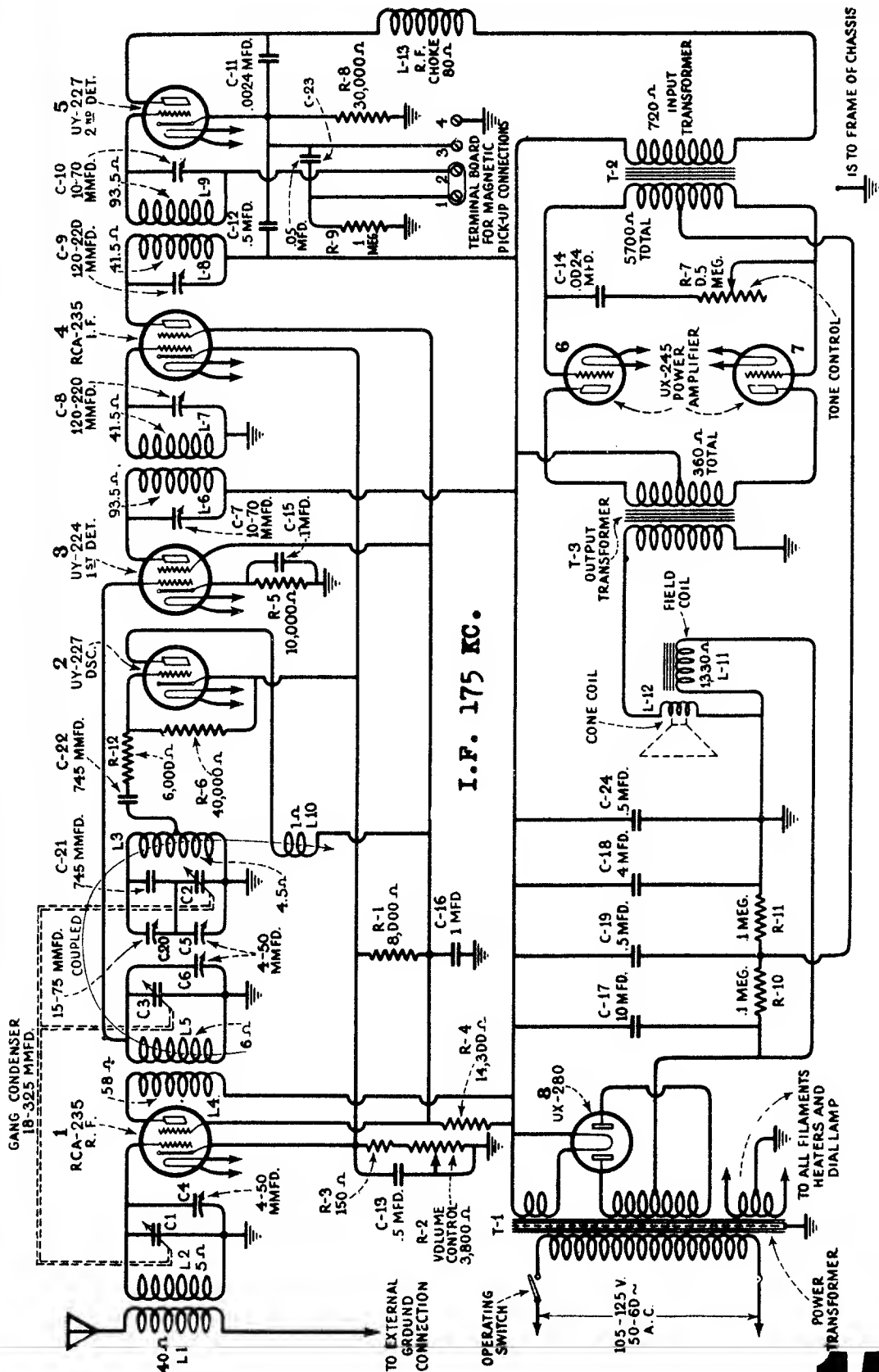




R.C.A. Victor Co., Inc.

	Model: R-9	Chassis:	Year: Pre June 1932
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
Resources			
Beitmans 1926-38 159			
Riders 1 (I) R. C. A. 1-12			
Riders 1 (I) R. C. A. 1-13			
Riders 2 (II) RCA 2-7			
Riders 2 (II) RCA 2-8			
Riders 2 (II) RCA 2-9			
Riders 2 (II) RCA 2-10			

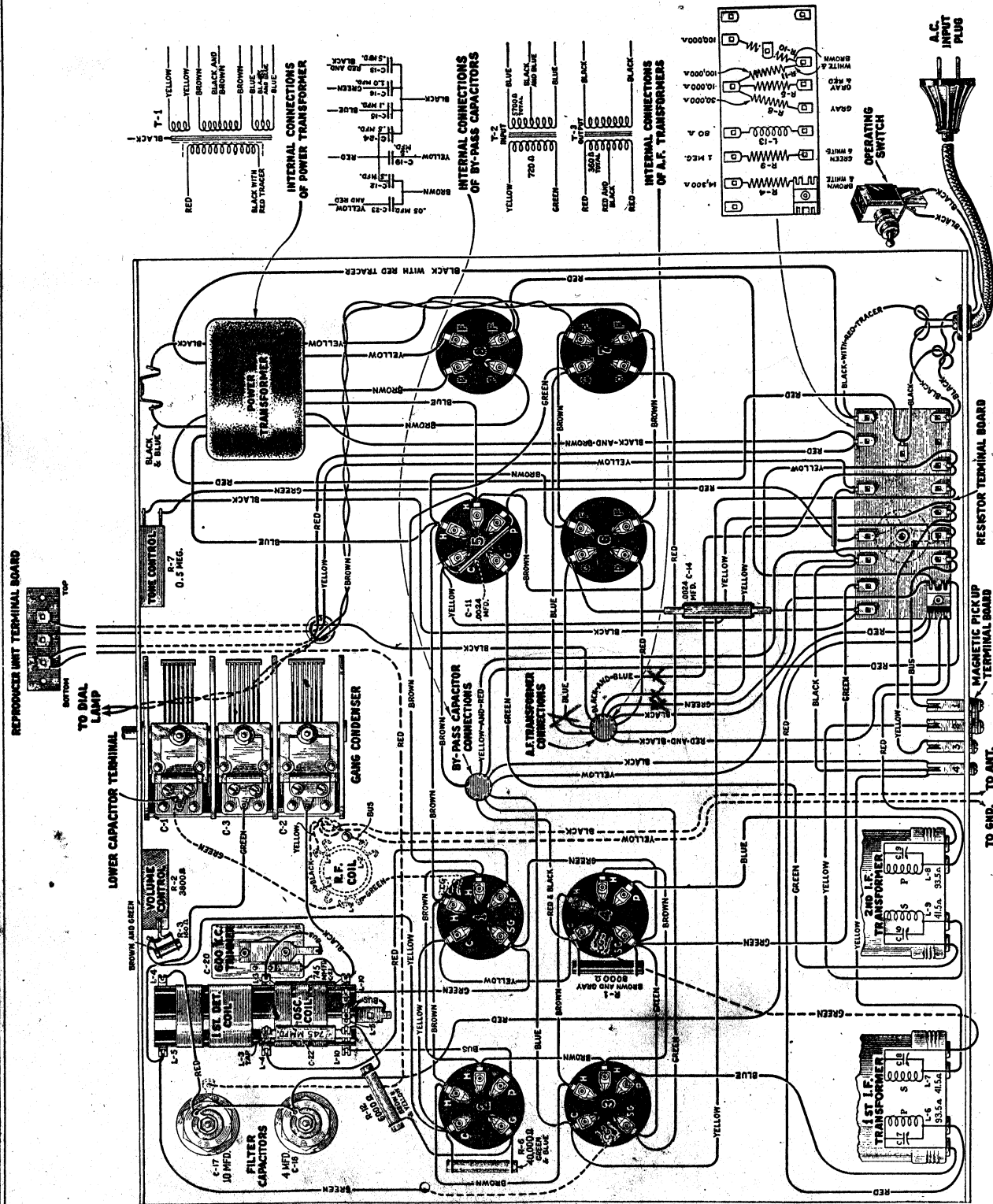
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



R.C.A. R-7, R-9

MODEL R-7, R-9 AC
Superette
Chassis

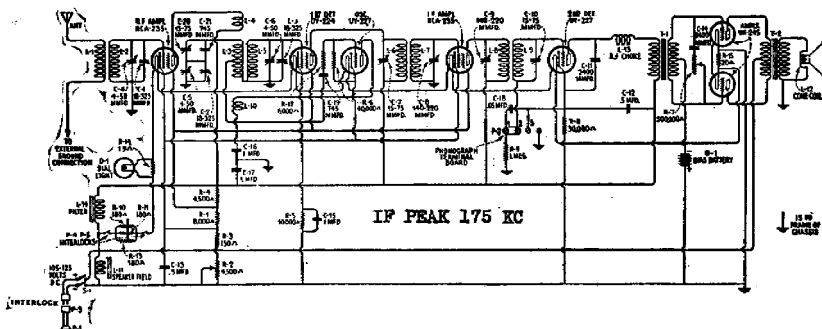
R. C. A. VICTOR CO., INC.



Copyright © 1989-2025 Nostalgia Air

**MODEL R-7, R-9 DC/
Superette
Schematic
Voltage**

R. C. A. VICTOR CO., INC.

**RADIOTRON SOCKET VOLTAGES—115 or 230 Vol. Line**

(Separate Resistance Unit Used with 350 Volt Line)

Tube No.	Cathode to Heater Volts, D.C.	Cathode or Filament to Control Grid Volts, D.C.	Cathode to Screen Grid Volts, D.C.	Cathode or Filament to Plate Volts, D.C.	Plate Current M. A.	Screen Grid Current M. A.	Heater or Filament Volts, A.C.
VOLUME CONTROL AT MINIMUM							
1	40	30	40	75	0	0	2.5
2	20	—	—	40	2.0	—	2.5
3	4.0	3.5	55	100	.25	—	2.5
4	17.0	26	40	75	.0	0	2.5
5	2.0	*2.0	—	90	.25	—	2.5
6	—	25.0	—	100	4.0	—	2.5
7	—	*25.0	—	100	4.0	—	2.5
VOLUME CONTROL AT MAXIMUM							
1	16.0	—	50	100	3.5	*0.5	2.5
2	6.0	0	—	50	3.0	—	2.5
3	6.0	5.0	50	100	0.5	.0	2.5
4	16.0	2.0	50	100	2.5	*1.0	2.5
5	2.5	*2.0	—	90	.25	0	2.5
6	—	*25.0	—	100	4.0	—	2.5
7	—	*25.0	—	100	4.0	—	2.5

*Not true reading due to Resistance in circuit

*This may be plus or minus depending on age of tubes

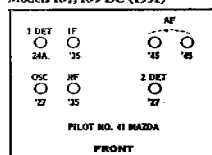
The RCA Victor Superette, R-7 D.C. and the Console, R-9 D.C. are similar to the A.C. Models with the exception that the necessary changes for D.C. operation have been made. The Service Notes on the A.C. Models, therefore, apply to the D.C. Models with the exception of voltage readings and circuit diagrams.

Provision for operation at 220 volts is made by the use of a separate resistance unit which drops the voltage to 110. This unit should be located in a place that is well ventilated and it should not come in contact with any wood or cloth material other than that upon which it is resting.

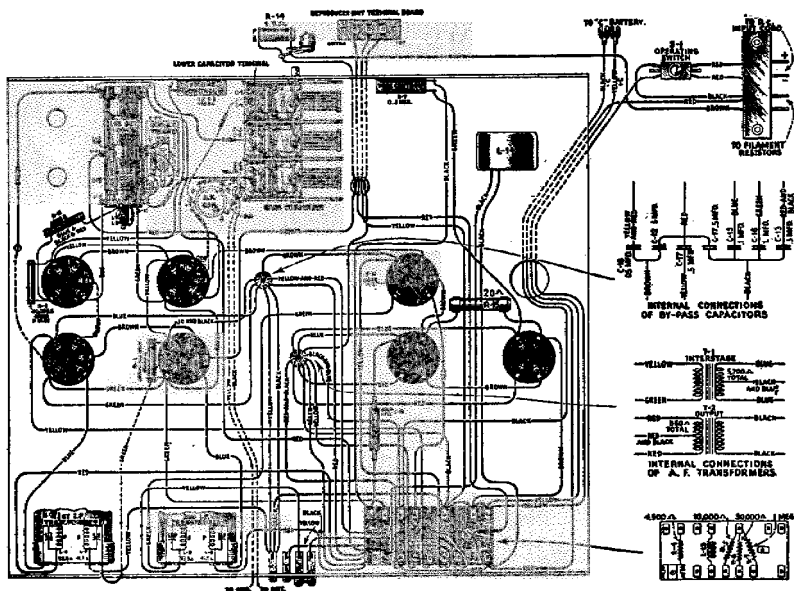
An interlock is provided on the cabinet back so that access to the parts cannot be made without opening the power supply. However, when service work is being performed, it may be necessary to run jumpers from the back to the connection block so that operation of the receiver may be secured. *Never make these interlocks inoperative except under these conditions. They are designed for protection of the customer.*

SPECIAL PARTS FOR R-9 D.C.

3070	Bolts—Speaker mounting bolts, nuts and washers—	.50
	Package of 2	
7123	Foot	.50
5464	Control panel	7.50
5465	Board—Baffle board complete with grille cloth	1.00
9329	Stretchers	4.50
9331	Top	3.35
9332	Post—Front post R. H.	2.50
9333	Post—Back post R. H.	2.50
9334	Post—Front post L. H.	2.50
9335	Post—Back post L. H.	2.50
9350	Cabinet—R-9 D.C. cabinet complete—Less all equipment	55.00
9357	Door—Rear cabinet door	5.00

Models R-7, R-9 DC (1931)

R. C. A. VICTOR CO., INC.

MODEL R-7, R-9 DC
Supertette
Chassis

Part No.	DESCRIPTION	List Price
PARTS COMMON TO R-7 D.C. AND R-9 D.C.		
2240	Resistor—30,000 Ohms—Carbon type—	\$0.70
2546	Resistor—1 Megohm—Carbon type—Package of 5.	3.00
2731	Resistor—10,000 Ohms—Carbon type—Package of 5.	2.00
2746	Socket—Dial lamp socket.	.50
2749	Capacitor—2,400 Mmf.—Used as 2nd Detector R.F. by-pass capacitor.	1.50
2875	Knob—Station Selector, Tone Control or Volume Control Knob—Package of 5.	1.50
2881	Bracket—Dial lamp bracket—Package of 5.	.50
2882	Socket—Five prong Radiotron Socket complete with insulating shield—Five used.	.50
2946	Easitephon—Station Selector Easitephon.	.60
2968	Socket—Four prong Radiotron Socket complete with insulating shield—Two used.	.50
2973	Board—Magnetic Pickup terminal board complete with terminals and screws—Package of 2.	.50
2990	Resistor—4,500 ohms—Carbon type—Package of 5.	2.50
2991	Transformer—1st I. F. Transformer complete with shield and mounting screws.	3.00
2992	Transformer—2nd I. F. Transformer complete with shield and mounting screws.	3.00
2993	Board—Resistor mounting board complete with terminals and mounting brackets—100 resistors.	1.00
2994	Coil—2nd Detector R.F. Choke Coil complete with rivet.	.60
2995	Volume Control—complete less knob—Package of 5.	6.00
2996	Tone Control—Complete less knob—Package of 5.	6.00
2997	Coil—R.F. coil complete with mounting washer and nut.	1.90
2998	Coil—1st Detector and Oscillator Coil assembly complete with mounting washers and nuts.	2.40

Part No.	DESCRIPTION	List Price
2999	Shaft—Dial Scale drive shaft complete with mounting screws and lock washers.	.50
3000	Scale—Dial drum and scale complete with set screws.	.60
3001	Resistor—1.9 Ohms—Porcelain resistor used in parallel with dial lamp.	.60
3002	Resistor—20 Ohms—Porcelain resistor used across UX-245 elements.	.50
3003	Cushion—Sponge Rubber Cushions—Package of 4.	.50
3004	Resistor—Porcelain type—120 Ohms—used as heater supply resistor—Three used.	1.00
3005	Screw Assembly—Loudspeaker Screws, Nuts, Eyelets and Washers—Package of 1 set of four each (for R-7).	0.50
3045	Resistor—40,000 ohms—Carbon type—Package of 5.	2.50
3071	Plug—Male and Female power plug—used as interlock—Set of 2 Complete plugs.	1.60
3072	Resistor Unit—Resistor Unit complete for use on 220 volt D.C. lines.	10.00
3073	Switch—Operating switch.	.80
7054	Cord—Power Cord and Plug.	1.00
7062	Condenser—Adjustable Oscillator tuning condenser.	1.00
7236	Capacitor Pack—R.F. by-pass capacitor pack in metal container.	3.50
7239	Transformer—A.F. transformer assembly in metal container.	6.00
7240	Reactor—Filter reactor.	5.50
7241	Condenser—3-gang tuning condenser complete with mounting washers and screws.	8.00
8559	Ring—Cone retaining ring.	.80
8601	Cone—Cone complete—Package of 5.	15.00
8639	Coil—Loudspeaker field coil complete with support.	5.00
9323	Loudspeaker—Loudspeaker unit complete.	8.70
9338	Receiver Assembly—Receiver Assembly complete—less loudspeaker and Radiotrons.	60.00

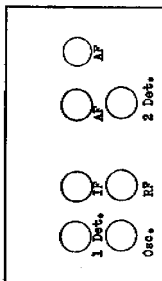
MODEL R-7, R-9 DC Superette Resistance Data

R. C. A. VICTOR CO., INC.

Across Filament Interlocks
Across Speaker Field
RF Plate to +DC Switch

60 ohms
13,300 ohms
58+ ohms*
ohms not known

*Resistance of filter
ohms not known



All tubes removed and speaker field disconnected - Interlocks closed - DC plug removed from line socket - Dial light out of socket - Volume control max unless otherwise stated - 0 Battery removed

From Chassis To

Correct

Incorrect

Aerial to Ground 40 ohms

Chassis to

RF Control Grid 5 ohms
RF Cathodes (V.C. Max) 180 ohms
RF Cathodes (V.C. Min) 4,850 ohms
RF Screen Grid 8,150 ohms
RF Plate 12,708 ohms

RF Plate to 1 Detector Plate 151.5 ohms

1 Det Control Grid 6 ohms
1 Detector Cathode 10,000 ohms
1 Detector Screen Grid 8,150 ohms
1 Detector Plate 12,743.5 ohms

Oscillator Control Grid 40,150 ohms
Oscillator Cathode 150 ohms
Oscillator Plate 8,151 ohms
Oscillator Plate to RF Screen 1 ohm

IF Control Grid 41.5 ohms
IF Cathode 180 ohms
IF Screen Grid 8,150 ohms
IF Screen to 1 Det Screen 0 ohms
IF Plate 12,691.5 ohms
IF Plate to RF Plate 99.5 ohms

Pickup Terminal Broad Terminals 1 and 2 joined

2 Detector Control Grid 1,000,033.5 ohms
2 Detector Control Grid to Tuning 93.5 ohms
2 Detector Cathode 30,000 ohms
2 Detector Plate 13,300 ohms

Output Control Grid to Black Bias Lead 3,850 ohms
Output Grid to Grid 5,700 ohms
Output Grid to chassis (bias leads shorted) 3,950 ohms
Output Plate to +D.C. Switch 180 ohms
Output Plate to Plate 360 ohms

1 Output filament terminal and chassis 20 ohms
Across dial light socket 1.9 ohms

RADIO TUBE SOCKET VOLTAGES - 115 or 230 Volt Line									
(Resistance Measurements Unit Used with 500 Volt Lines)									
Tube	Cathode to Heatsink, V.C.	Cathode to Control Grid, V.C.	Cathode to Tuning Grid, V.C.	Cathode to Plate, V.C.	Screen Grid to Plate, V.C.	Screen Grid to Control Grid, V.C.	Screen Grid to Tuning Grid, V.C.	Screen Grid to Plate, V.C.	Heatsink to Filament, V.C.
VOLUME CONTROL AT MINIMUM									
1	10	10	10	10	10	10	10	10	10
2	10	10	10	10	10	10	10	10	10
3	10	10	10	10	10	10	10	10	10
4	10	10	10	10	10	10	10	10	10
5	10	10	10	10	10	10	10	10	10
6	10	10	10	10	10	10	10	10	10
7	10	10	10	10	10	10	10	10	10
8	10	10	10	10	10	10	10	10	10
9	10	10	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10	10	10
11	10	10	10	10	10	10	10	10	10
12	10	10	10	10	10	10	10	10	10
13	10	10	10	10	10	10	10	10	10
14	10	10	10	10	10	10	10	10	10
15	10	10	10	10	10	10	10	10	10
16	10	10	10	10	10	10	10	10	10
17	10	10	10	10	10	10	10	10	10
18	10	10	10	10	10	10	10	10	10
19	10	10	10	10	10	10	10	10	10
20	10	10	10	10	10	10	10	10	10
21	10	10	10	10	10	10	10	10	10
22	10	10	10	10	10	10	10	10	10
23	10	10	10	10	10	10	10	10	10
24	10	10	10	10	10	10	10	10	10
25	10	10	10	10	10	10	10	10	10
26	10	10	10	10	10	10	10	10	10
27	10	10	10	10	10	10	10	10	10
28	10	10	10	10	10	10	10	10	10
29	10	10	10	10	10	10	10	10	10
30	10	10	10	10	10	10	10	10	10
31	10	10	10	10	10	10	10	10	10
32	10	10	10	10	10	10	10	10	10
33	10	10	10	10	10	10	10	10	10
34	10	10	10	10	10	10	10	10	10
35	10	10	10	10	10	10	10	10	10
36	10	10	10	10	10	10	10	10	10
37	10	10	10	10	10	10	10	10	10
38	10	10	10	10	10	10	10	10	10
39	10	10	10	10	10	10	10	10	10
40	10	10	10	10	10	10	10	10	10
41	10	10	10	10	10	10	10	10	10
42	10	10	10	10	10	10	10	10	10
43	10	10	10	10	10	10	10	10	10
44	10	10	10	10	10	10	10	10	10
45	10	10	10	10	10	10	10	10	10
46	10	10	10	10	10	10	10	10	10
47	10	10	10	10	10	10	10	10	10
48	10	10	10	10	10	10	10	10	10
49	10	10	10	10	10	10	10	10	10
50	10	10	10	10	10	10	10	10	10
51	10	10	10	10	10	10	10	10	10
52	10	10	10	10	10	10	10	10	10
53	10	10	10	10	10	10	10	10	10
54	10	10	10	10	10	10	10	10	10
55	10	10	10	10	10	10	10	10	10
56	10	10	10	10	10	10	10	10	10
57	10	10	10	10	10	10	10	10	10
58	10	10	10	10	10	10	10	10	10
59	10	10	10	10	10	10	10	10	10
60	10	10	10	10	10	10	10	10	10
61	10	10	10	10	10	10	10	10	10
62	10	10	10	10	10	10	10	10	10
63	10	10	10	10	10	10	10	10	10
64	10	10	10	10	10	10	10	10	10
65	10	10	10	10	10	10	10	10	10
66	10	10	10	10	10	10	10	10	10
67	10	10	10	10	10	10	10	10	10
68	10	10	10	10	10	10	10	10	10
69	10	10	10	10	10	10	10	10	10
70	10	10	10	10	10	10	10	10	10
71	10	10	10	10	10	10	10	10	10
72	10	10	10	10	10	10	10	10	10
73	10	10	10	10	10	10	10	10	10
74	10	10	10	10	10	10	10	10	10
75	10	10	10	10	10	10	10	10	10
76	10	10	10	10	10	10	10	10	10
77	10	10	10	10	10	10	10	10	10
78	10	10	10	10	10	10	10	10	10
79	10	10	10	10	10	10	10	10	10
80	10	10	10	10	10	10	10	10	10
81	10	10	10	10	10	10	10	10	10
82	10	10	10	10	10	10	10	10	10
83	10	10	10	10	10	10	10	10	10
84	10	10	10	10	10	10	10	10	10
85	10	10	10	10	10	10	10	10	10
86	10	10	10	10	10	10	10	10	10
87	10	10	10	10	10	10	10	10	10
88	10	10	10	10	10	10	10	10	10
89	10	10	10	10	10	10	10	10	10
90	10	10	10	10	10	10	10	10	10
91	10	10	10	10	10	10	10	10	10
92	10	10	10	10	10	10	10	10	10
93	10	10	10	10	10	10	10	10	10
94	10	10	10	10	10	10	10	10	10
95	10	10	10	10	10	10	10	10	10
96	10	10	10	10	10	10	10	10	10
97	10	10	10	10	10	10	10	10	10
98	10	10	10	10	10	10	10	10	10
99	10	10	10	10	10	10	10	10	10
100	10	10	10	10	10	10	10	10	10

* True line reading due to Resistance in filament

* True line reading due to Resistance in filament