

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

Model: R-7

Chassis:

Year: Pre June 1932

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

Riders Volume 2 - RCA 2-7

Riders Volume 2 - RCA 2-8

Riders Volume 2 - RCA 2-9

Riders Volume 2 - RCA 2-10

Riders Volume 1 - R. C. A. 1-12

Riders Volume 1 - R. C. A. 1-13

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

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

All tubes removed from receiver and AC plug disconnected from power supply socket. Speaker field disconnected. Volume control adjusted to maximum, unless otherwise stated

All tubes removed from receiver and AC plug disconnected from power supply sockets. Speaker field disconnected. Volume control adjusted to maximum, unless otherwise stated			Output Tube Control Grid	Output Tube Grid to Grid	Output Tube Plate (2 tubes)	Output Tube Plate to Plate	'80 Filament	'80 Filament to Anode	'80 Anode to Anode	'80 Anode to Chassis	Across Speaker field	Tone Control condenser
From Chassis To	Correct	Incorrect										
Aerial to Ground	40 ohms											
Chassis (Y) to												

RF Control Grid	5 ohms	TC-Y
RF Cathode (V.E.Min)	3,950 ohms	BC-Y
RF Cathode (V.E.Max)	150 ohms	See Min. Adj.
RF Screen Grid	8,150 ohms	BC-Y 8g-Y
RF Plate	22,508 ohms	FC-Y (4.mfd)
		BC-'80 F-Y (.5 mfd)

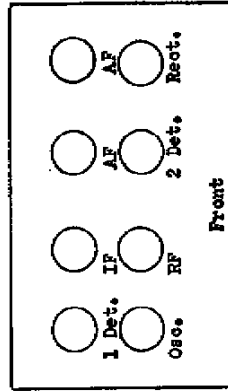
1 Detector Control Grid	6 ohms	TC-Y
1 Detector Cathode	10,000 ohms	BC-1 D R-Y
1 Detector Screen Grid	8,150 ohms	See R-F 8g
1 Detector Plate	22,543.5 ohms	See R-F Plate
		TC-1 IF Tr
1 Detector Plate-'80 Y	93.5 ohms	TC-1 IF Tr

Oscillator Control Grid	40,150 ohms	Osc. Grid Cond.
Oscillator Cathode	150 ohms	See R-F Cathode
Oscillator Plate	8,151 ohms	See R-F Cathode
Osc. Plate-1 Det Screen	1 ohm	See R-F Screen

IF Control Grid	41.5 ohms	TC-Y
IF Cathode	150 ohms	See R-F Cathode
IF Screen Grid	8,150 ohms	See R-F Screen Grid
IF Plate	22,491 ohms	See R-F Plate
		BC-1 F P = 2 DK
		TC-2 IF Tr
IF Plate-'80 F11	41.5 ohms	TC-2 IF Tr

Magnetic Pickup Terminal Board 1-2 Closed

2 Detector Control Grid	1,000,093.5 ohms	BC-2 Ter.-2 DK
2 Detector Control Grid-Ter 2	93.5 ohms	TC-1 Terminal
2 Detector Cathode	50,000 ohms	BC-2 D K-1 F P
		BC-2 DP = 2 D K
2 Detector Plate	23,250 ohms	BC-2 DP = 2 D K
		FC-'80 F-Y (.5 mfd)
		FC-'80 R-Y (4. mfd)
		See R-F Plate
2 Det Plate-'80 Y	800 ohms	



Front

Volume Control Maximum	Tube Heater	Cathode-Grid	Cathode-Screen	Cathode-Plate	Plate Current	Fil.
FF	2.5	2.5	65	225	4.0 ma	2.4
Osc.	2.5	0.	55	55	5.0	2.4
1Det	5.0	5.0	60	215	0.5	2.4
IF	2.5	2.5	65	225	4.0	2.4
2Det	60.	*10.		200	0.5	2.4
AF		*20.		215	20.	2.4
AP		*20.		215	20.	2.4

* Not true reading because of resistance in circuit.

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
13,30 ohms
58+ ohms* Resistance of filter
ohms not known

Correct

Incorrect

40 ohms

From Chassis to

RF Control Grid
RF Cathode(V.C. Max)
RF Cathode(V.C. Min)
RF Screen Grid
RF Plate

5 ohms
150 ohms
4,650 ohms
8,150 ohms
12,708 ohms

TC-Y
BC-Y (.5 mfd)
BC-Y (.5 mfd)
BC-Y (1. mfd)
BC-Y (1. mfd)
BC-2D P-2DK (.0024 mfd)
BC-2D P-2DK (.5 mfd)

RF Plate to 1 Detector Plate

151.5 ohms

1 Det Control Grid
1 Detector Cathode
1 Detector Screen Grid
1 Detector Plate

6 ohms
10,000 ohms
8,150 ohms
12,743.5 ohms

Oscillator Control Grid
Oscillator Cathode
Oscillator Plate
Oscillator Plate to RF Screen

40,150 ohms
150 ohms
8,151 ohms
1 ohm

IF Control Grid
IF Cathode
IF Screen Grid
IF Screen to 1 Det Screen
IF Plate
IF Plate to RF Plate

41.5 ohms
150 ohms
8,150 ohms
0 ohms
12,691.5 ohms
99.5 ohms

Pickup Terminal Broad Terminals 1 and 2 joined

2 Detector Control Grid
2 Detector Control Grid to Terminals
2 Detector Cathode
2 Detector Plate

1,000,093.5 ohms
93.5 ohms
30,000 ohms
13,300 ohms

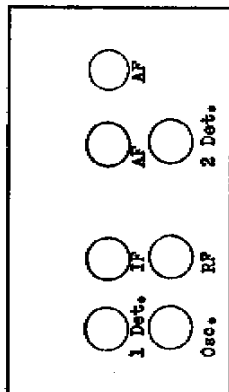
Output Control Grid to Black Bias Lead
Output Grid to Grid
Output Grid to chassis(bias leads shorted)
Output Plate to +D.C. Switch
Output Plate to Plate

Tone Control Condenser

3,850 ohms
5,700 ohms
3,850 ohms
180 ohms
360 ohms

1 Output filament terminal and chassis
Across dial light socket

20 ohms
1.9 ohms



RADIO TRON SOCKET VOLTAGES—115 or 230 Volt Line (Separate Resistance Unit Used with 230 Volt Line)									
Tube No.	Cathode to Grid, D.C.	Cathode to Screen Grid, D.C.	Cathode to Plate, D.C.	Cathode to Filament, D.C.	Plate to Screen Grid, D.C.	Screen Grid to Plate, D.C.	Plate to Cathode, D.C.	Plate to Screen Grid, D.C.	Plate to Filament, D.C.
VOLUME CONTROL AT MINIMUM									
1	40	40	40	15	0	0	0	0	1.3
2	10	10	10	10	2.0	2.0	2.0	2.0	2.3
3	10	10	10	10	2.0	2.0	2.0	2.0	2.3
4	10	10	10	10	2.0	2.0	2.0	2.0	2.3
5	10	10	10	10	2.0	2.0	2.0	2.0	2.3
6	10	10	10	10	2.0	2.0	2.0	2.0	2.3
7	10	10	10	10	2.0	2.0	2.0	2.0	2.3
VOLUME CONTROL AT MAXIMUM									
1	10.0	10.0	10.0	10.0	3.5	3.5	3.5	3.5	2.3
2	10.0	10.0	10.0	10.0	3.5	3.5	3.5	3.5	2.3
3	10.0	10.0	10.0	10.0	3.5	3.5	3.5	3.5	2.3
4	10.0	10.0	10.0	10.0	3.5	3.5	3.5	3.5	2.3
5	10.0	10.0	10.0	10.0	3.5	3.5	3.5	3.5	2.3
6	10.0	10.0	10.0	10.0	3.5	3.5	3.5	3.5	2.3
7	10.0	10.0	10.0	10.0	3.5	3.5	3.5	3.5	2.3

* Not true readings due to impedances in circuit

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

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