

# RCA VICTOR MODELS C9-4 and T9-10

## Nine-Tube, Three-Band, A-C, Superheterodyne Receivers

### TECHNICAL INFORMATION

#### Electrical Specifications

##### FREQUENCY RANGES

Band A.....	540-1,800 kc.
Band B.....	1,800-6,000 kc.
Band C.....	6,000-18,000 kc.

##### ALIGNMENT FREQUENCIES

Band A...600 kc. (osc.), 1,720 kc. (osc., det., ant.)
Band B.....6,132 kc. (osc., det., ant.)
Band C.....18,000 kc. (osc., det., ant.)

Intermediate Frequency.....460 kc.

##### RADIOTRON COMPLEMENT

(1) RCA-6K7.....	Radio-Frequency Amplifier
(2) RCA-6L7.....	First Detector
(3) RCA-6J7.....	Heterodyne Oscillator
(4) RCA-6K7.....	Intermediate Amplifier

(5) RCA-6H6.....	Second Detector and A.V.C.
(6) RCA-6F5.....	Audio Amplifier
(7) RCA-6F6.....	Power Output Amplifier
(8) RCA-5Z4.....	Full Wave Rectifier
(9) RCA-6E5.....	Tuning Indicator

##### POWER SUPPLY RATINGS

Rating A.....	105-125 volts, 50-60 cycles, 105 watts
Rating B.....	105-125 volts, 25-60 cycles, 105 watts
Rating C.....	100-130/140-160/195-250 volts, 40-60 cycles, 105 watts

##### LOUDSPEAKER

Type .....	Electrodynamic
Voice Coil Impedance.....	2 $\frac{1}{4}$ Ohms at 400 Cycles

##### POWER OUTPUT RATINGS

Undistorted .....	2 Watts
Maximum .....	4 $\frac{1}{2}$ Watts

#### Mechanical Specifications

	Model C9-4	Model T9-10
Height .....	40 inches	22 $\frac{1}{4}$ inches
Width .....	26 inches	16 $\frac{1}{2}$ inches
Depth .....	12 $\frac{1}{2}$ inches	11 $\frac{3}{4}$ inches
Weight (Net) .....	57 pounds	34 pounds
Weight (Shipping) .....	72 pounds	39 pounds
Chassis Base Dimensions .....	14 $\frac{1}{2}$ inches x 9 inches x 3 $\frac{1}{2}$ inches	

#### General Description

These two models each employ the same type of chassis and are similar to the original RCA Victor Model C9-4. The main changes consist of the following: (1) An RCA-5Z4 metal rectifier is used in place of the RCA-5Z3 glass rectifier, and (2) a Speech-Music Control is added to the compensated volume control circuit and is actuated by the same knob as the power switch. The Console Model (C9-4) employs a 12-inch dynamic loudspeaker and the Table Model (T9-10) employs an 8-inch dynamic loudspeaker.

#### Service Data

All Service Data contained in the Service Notes for RCA Victor Model C9-4 are directly applicable to these instruments except the Schematic Diagram, Wiring Diagram, and Replacement Parts. Other differences not illustrated are as follows:

Universal Transformer d-c resistance (Figure 7 of C9-4 Service Note).

Primary Winding 17.3 ohms total.

Secondary Winding 400 ohms total.





# REPLACEMENT PARTS

Insist on genuine factory tested parts, which are readily identified and may be purchased from authorized dealers.

STOCK No.	DESCRIPTION	LIST PRICE	STOCK No.	DESCRIPTION	LIST PRICE
<b>RECEIVER ASSEMBLIES</b>					
4427	Bracket—Volume control or high frequency tone control mounting bracket.	\$0.18	11151	Resistor—2.2 megohms—Carbon Type— $\frac{1}{4}$ watt—(R9, R52, R53)—Package of 5	1.00
5237	Bushing—Variable tuning condenser mounting bushing assembly—Package of 3			5249	Shield—Antenna, detector or oscillator coil shield
11350	Cap—Contact cap—Package of 5	.43	5250	Shield—Intermediate frequency transformer shield	.22
11223	Capacitor—Adjustable capacitor (C19)	.20	11222	Socket—Dial lamp socket	.18
11292	Capacitor—22 MMfd. (C7)	.46	11195	Socket—5-contact rectifier radiotron socket	.15
11321	Capacitor—33 MMfd. (C33)	.24	11313	Socket—5-contact radiotron socket	.18
11289	Capacitor—50 MMfd. (C11)	.26	11198	Socket—7-contact radiotron socket	.15
11291	Capacitor—115 MMfd. (C21)	.26	11236	Switch—Band switch (S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11)	2.44
11623	Capacitor—175 MMfd. (C31)	.24	5224	Switch—Tone control and power switch (S12, S14)	1.00
5116	Capacitor—175 MMfd. (C35)	.18	5238	Terminal—Antenna terminal clip assembly	.14
4409	Capacitor—1120 MMfd. (C38)	.35	11238	Tone Control—High frequency tone control (R20)	.96
11288	Capacitor—1225 MMfd. (C17)	.30	11216	Transformer—First intermediate frequency transformer (L16, L17, C24, C25)	2.15
11287	Capacitor—4500 MMfd. (C15)	.30	11239	Transformer—Second Intermediate frequency transformer (L18, L19, C29, C30, C31, R7, R8)	2.72
4868	Capacitor—0.005 Mfd. (C34, C44)	.20	11803	Transformer—Power transformer—105-125 volts—50-60 cycles (T1)	4.38
4624	Capacitor—0.01 Mfd. (C32)	.54	11804	Transformer—Power transformer—105-125 volts—25-60 cycles	6.02
4858	Capacitor—0.01 Mfd. (C37)	.25	11805	Transformer—Power transformer—100-130, 140-160, 195-250 volts—40-60 cycles	7.95
5196	Capacitor—0.035 Mfd. (C43)	.18	11237	Volume Control—(R11)	1.20
4836	Capacitor—0.05 Mfd. (C4, C13, C26)	.30	<b>DRIVE ASSEMBLIES</b>		
4886	Capacitor—0.05 Mfd. (C51)	.20	4362	Arm—Band indicator operating arm	.28
4885	Capacitor—0.1 Mfd. (C6, C12, C27)	.28	10194	Ball—Steel ball—Package of 20	.25
5170	Capacitor—0.25 Mfd. (C23, C28, C36, C50)	.25	4422	Clutch—Tuning condenser drive clutch assembly—comprising drive shaft, balls, ring, spring and washers—assembled	1.00
11240	Capacitor—10 Mfd. (C39)	1.08	11328	Dial—Dial scale	.68
5212	Capacitor—18 Mfd. (C40)	1.16	11252	Drive—Variable tuning condenser drive assembly	1.88
11272	Clamp—Antenna cable clamp—Located near antenna terminal	.10	4520	Indicator—Station selector indicator pointer	.18
5215	Coil—Antenna coil (A and C Bands)—(L1, L2, L5, L6, C1, C3)	2.32	11226	Indicator—Band indicator pointer assembly—comprising indicator pointer, arm, link and stud	.20
5245	Coil—Antenna coil (B Band)—(L3, L4, C2)	1.58	3993	Screw—No. 6-32-5/32-in. square head set screw for band indicator operating arm—Package of 10	.25
5216	Coil—Detector coil (A and C Bands)—(L7, L8, L11, L12, C8, C10)	2.34	4669	Screw—No. 8-32-5/32-in. set screw for variable condenser drive assembly—Package of 10	.25
5246	Coil—Detector coil (B Band)—(L9, L10, C9)	1.62	4377	Spring—Band indicator operating arm spring—Package of 5	.25
5217	Coil—Oscillator coil (A and C Bands)—(L13, L15, C16, C20)	2.20	4378	Stud—Band indicator operating arm stud and nut assembly—Package of 5	.25
5247	Coil—Oscillator coil (B Band)—(L14, C18)	1.44	<b>REPRODUCER ASSEMBLIES</b>		
11214	Condenser—3-gang variable tuning condenser (C5, C14, C22)	4.20	Table Model		
4340	Lamp—Dial lamp—Package of 5	.60	11232	Board—Terminal board with two lead wire clips	.18
8041	Plate—R.F. or I.F. coil shield locking plate—Package of 2	.12	11231	Bolt—Yoke and core assembly bolt and nut	.16
11244	Resistor—Voltage divider resistor, comprising one 7500 ohm and one 9200 ohm section—(R18, R19)	1.08	8060	Bracket—Output transformer mounting bracket	.14
11329	Resistor—Voltage divider resistor, comprising one 148 ohm, one 32 ohm and one 85 ohm section—(R15, R16, R17)	.52	11257	Clamp—Cone center suspension clamping nut and screw assembly—Package of 5	.25
5112	Resistor—1000 ohm—Carbon Type— $\frac{1}{4}$ watt—(R2)—Package of 5	1.00	11254	Coil—Field coil (L20)	2.00
5114	Resistor—15,000 ohm—Carbon Type—1 watt—(R5)	.22	11233	Coil—Neutralizing coil (L21)	.30
11300	Resistor—33,000 ohm—Carbon Type— $\frac{1}{10}$ watt—(R4)—Package of 5	.75			
5033	Resistor—33,000 ohm—Carbon Type—1 watt—(R51)—Package of 5	1.10			
11322	Resistor—39,000 ohm—Carbon Type— $\frac{1}{4}$ watt—(R10)—Package of 5	1.00			
5029	Resistor—56,000 ohm—Carbon Type— $\frac{1}{4}$ watt—(R13, R21)—Package of 5	1.00			
3118	Resistor—100,000 ohm—Carbon Type— $\frac{1}{4}$ watt—(R1, R3, R6, R50)—Package of 5	1.00			
11323	Resistor—270,000 ohm—Carbon Type— $\frac{1}{4}$ watt—(R12)—Package of 5	1.00			
11172	Resistor—470,000 ohm—Carbon Type— $\frac{1}{4}$ watt—(R14)—Package of 5	1.00			

The prices quoted above are subject to change without notice.

## REPLACEMENT PARTS—Continued

STOCK No.	DESCRIPTION	LIST PRICE	STOCK No.	DESCRIPTION	LIST PRICE
11235	Cone—Reproducer cone—(L22)—Package of 5.....	3.50		MISCELLANEOUS ASSEMBLIES	
5119	Connector—3-contact female connector for reproducer cable.....	.25	11996	Bracket—Tuning tube mounting bracket and clamp assembly.....	.22
5118	Connector—3-contact male connector for reproducer .....	.25	11331	Cable—Tuning lamp cable—complete with socket .....	1.28
9618	Reproducer—Complete .....	6.40	11276	Escutcheon—Tuning lamp escutcheon...	.40
11253	Transformer—Output transformer (T2)..	1.56	11337	Escutcheon—Station selector escutcheon..	.70
11886	Washer—Spring washer used to hold field coil securely—Package of 5.....	.20	6614	Glass—Station selector dial glass.....	.30
	REPRODUCER ASSEMBLIES		11346	Knob—Station selector knob—Package of 5 .....	.75
	Console Models		11347	Knob—Volume control, tone control, range switch or power switch knob—Package of 5.....	.75
11232	Board—Terminal board assembly with two lead wire clips.....	.18	11246	Foot—Chassis mounting foot and bracket assembly—Package of 2.....	.76
11231	Bolt—Yoke and core assembly bolt and nut .....	.16	11382	Resistor—1 megohm—Carbon Type—1/10 watt (R54)—Package of 5.....	.75
8060	Bracket—Output transformer mounting bracket .....	.14	4678	Ring—Spring retaining ring for dial glass—Package of 5.....	.34
11257	Clamp—Cone center suspension clamping nut and screw assembly—Package of 5 .....	.25	5210	Screw—Chassis mounting screw assembly—for console model—Package of 4...	.16
11254	Coil—Field coil (L20).....	2.00	11210	Screw—Chassis mounting screw assembly—for table model—Package of 4.....	.28
11233	Coil—Hum neutralizing coil (L21).....	.30	11348	Screw—No. 8-32-7/16-in. headless cupped point set screw for knob, Stock No. 11346—Package of 10.....	.32
11258	Cone—Reproducer cone—(L22)—Package of 5.....	3.85	11381	Socket—Tuning lamp socket and cover..	.45
5118	Connector—3-contact male connector for reproducer .....	.25	11349	Spring—Retaining spring for knob, Stock No. 11347—Package of 5.....	.15
5119	Connector—3-contact female connector plug for reproducer cable.....	.25			
9619	Reproducer—Complete .....	6.05			
11253	Transformer—Output transformer (T2)..	1.56			
11886	Washer—Spring washer used to hold field coil securely—Package of 5.....	.20			

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### SERVICE HINTS

- (1) Excessive heating of the 6E5 tube may be due to high cathode current—in excess of 7 ma. The tube should be replaced and the condition of the 5Z4 rectifier checked.