

		R.C.A. Victor Co., Inc	
	Model: RCA-100	Chassis:	Year: Pre March 1934
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
		Resources	
Riders 4 (IV) RCA 4-5	3		
Riders 4 (IV) RCA 4-54	4		

RCA-VICTOR CO., INC.

MODEL RCA-100,101 Alignment, Speaker Schematic Voltage

SERVICE DATA

umption...
i Types of Radiotrons—
1 RCA-6A7, 1 RCA-6F7, 1 RCA-38, 1 RCA-1-V
1.6 Watts Undistorted Output 1.6 Watts Frequency Range 540-1500 K. C. and 1600-3500 K. C.

This receiver is a four-tube superheterodyne incorporating features such as wide tuning range, electro-dynamic loud-speaker, two-point tone control, illuminated dial and the inherent sensitivity, selectivity and tone quality of the superheterodyne.

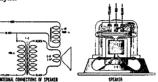


Figure C-Loudspeaker Wiring

The following description of the circuit describes several new design features which are incorporated in this receiver.

The first tube is a combined first detector and oscillator using Radiotron RCA-6A7. Separate tuned circuits are provided for each function. The detector coil is tapped so that

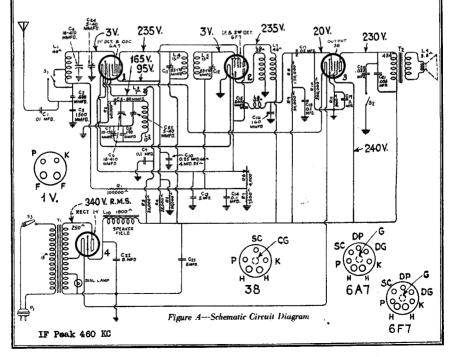
the tuning range may be extended merely by shorting out a portion of the coil. The oscillator circuit is not tapped, the high frequency range being obtained by use of its second harmonic instead of the fundamental for obtaining the 1. F. frequency.

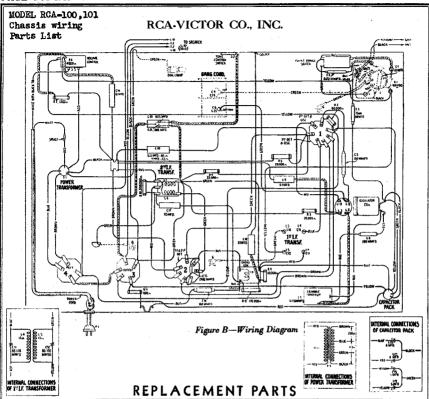
instead of the fundamental for obtaining the I. F. frequency. The next tube is a combined I. F. stage and second detector using Radiotron RCA-6F?. It has two sets of elements, one being used as a screen grid I. F. amplifier and one as a trode detector. The I. F. frequency in this receiver is 460 K. C. The output stage is a single Peatode RCA-38. The rectifier is an RCA-1-V used in a half-wave rectifying circuit. A feature of this circuit is that only one transformer secondary is used. This is accomplished by having a cathode type rectifier, a series arrangement of filaments and a tapped secondary winding. ondary winding.

Figure A shows the schematic circuit, Figure B the wiring diagram and Figure C the loudspeaker wiring.

Line-Up Adjustments

The detector and oscillator line-up trimmer capacitors are adjusted by setting both the dial and an external oscillator first at 1400 K. C. and adjusting the tuning capacitor trimmer caan 1400 K. C. and adjusting the tuning capacitor trimmer capacitors for maximum output, then changing the oscillator frequency and dial setting to 600 K. C. and adjusting the submounted trimmer capacitor for maximum output. The I. F. adjustments are made by adjusting the two trimmer capacitors located on the first I. F. transformer for maximum output, when a 460 K. C. climal in capacital between the capacital betwe output when a 460 K. C. signal is connected between the control grid of the first detector and ground. Be sure and set the station selector at a point where no signal is being received when making I. F. adjustments.





Stock No	DESCRIPTION	List Price	Stock No.	DESCRIPTION	List Price
2717 3047 3048 3077 3118 3459	RECEIVER ASSEMBLIES Contact cap—Package of 5. Resistor—1,500 ohms—Carbon type—½ watt (R7)—Package of 5. Package of 5. Resistor—30,000 ohms—Carbon type—½ watt (R10)—Resistor—30,000 ohms—Carbon type—½ watt (R9)—Package of 5. Resistor—30,000 ohms—Carbon type—½ watt (R9)—Resistor—100,000 ohms—Carbon type—½ watt (R1)—Caractor—30 mmfd. (C5).	\$0.50 1.00 1.00 1.00 1.00	3877 3885 3886 3887 3889 3890 3932 3933 6114	Capacitor—0.1 mfd. (C14). Knob—Station selector knob—Package of 5. Relactor—101a light reflector. Resistor—25.000 chnos—Carbon type—3 watt (R4). Capacitor—25.000 ohnos—Carbon type—3 watt (R4). Capacitor—26.000 mfd. (C15). Capacitor—26.00 mfd. (C15). Capacitor—26.00 mfd. (C3). Package of 5. Package of 5. Condepace—2-ang variable condenser.	1.00 .30 .60
3572 3584 3592 3602 3606 3615 3641 3682	Socket—T-contact Radiotron socket. Ring—Oxellator cul retaining ring—Package of 5. Knob—Tone control switch knob—Package of 5. Knob—Tone control switch knob—Package of 5. Knob—Tone Control switch knob—Package of 5. Capacitor—Comprising one 0.005 and one 0.025 mfd. capacitors—Comprising one 0.005 and one 0.025 mfd. capacitors—Comprising one 0.005 and one 0.025 mfd. Knob—Volume control of tange switch knob—Package of 5. Chiefitic Radiotron shield.	.38 .40 .80 1.00 .40 .35 .22	6662 6663 6664 6665 6666 6667	Gapacitor pack—Comprising two 5.0 mtd. and two 8.0 mtd. capacitors (Cl3. Cl3. Ct2. C23). Transformer—First intermediate frequency transformer Transformer—Second intermediate frequency transformer (L6. L7). Coll—Oscillator coil (L2. L3). Shiell—Oscillator coil dailed and mounting bracket	2.70 2.34 1.06 .94 .34 1.08 1.58
3701 3702 3713 3749 3857 3858 3859 3860 3861	Capacitor—0.01 mfd. (C1). Capacitor—0.25 mfd. (C10) (60 cycle). Capacitor—0.25 mfd. (C17). Capacitor—0.1 mfd. (C18). Coil—Detector choke coil (L6) Socket—Dial lamp socket and bracket. Socket—decontact Brainstorm socket. Capacitor—Capaci	.30 .42 .52 .30 .90 .26 .30 .32	6668 6669 7641 9045 9047 9048	Switch—Range switch (S1) Switch—Tone control switch (S2) Capacitor—4.0 mfd. (C10) (25 cycle) Transformer—Power transformer—105-125 volts—50-60 Transformer—Power transformer—105-125 volts—55-40 cycles Transformer—Power transformer—200-250 volts—50-60 cycles	5.54 4.84 5.24 5.56
3862 3865 3868 3869 3873	Serve:—Chanis mounting screw and washer—Package of 4. Capnetton—160 mmfd. (Cib)	.24 .30 1.00	6659 8987 9436 9437	REPRODUCER ASSEMBLIES Transformer—Output transformer (T2). Cone—Baprodurer cone (19)—Package of 5. Reprodurer complete. Coll assembly—Comprising field coil, magnet and cone support (Li0)	5.0