



RCA Victor

MODEL B64

Four-Tube, Single-Band, Battery-Operated Superheterodyne Receiver
TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION • RCA VICTOR COMPANY LIMITED • MONTREAL



Electrical Specifications

Frequency Range 540—1,700 k.c. Alignment Frequencies 600 k.c., 1500 k.c., (osc., ant.)
 Intermediate Frequency 455 k.c.

RADIOTRON COMPLEMENT

(1) Type 1A7G First Detector—Oscillator (2) Type 1N5G I. F. Amplifier
 (3) Type 1H5G Second Det., A.F. and A.V.C. (4) Type 1C5G Power Output

BATTERIES REQUIRED

“A” one 1.4 Volt Air Cell or 1.5 Dry Cell; “B” two 45 Volt heavy duty “B” Batteries

CURRENT CONSUMPTION

“A” at 1.4 Volts 0.25 Amp.
 “B” at 90 Volts 9.6 Ma.

POWER OUTPUT

Undistorted 115 Milliwatts
 Maximum 260 Milliwatts

LOUDSPEAKER

Type Permanent Magnet Dynamic
 Diameter 5 inches
 Voice Coil Impedance 3 Ohms at 400 Cycles

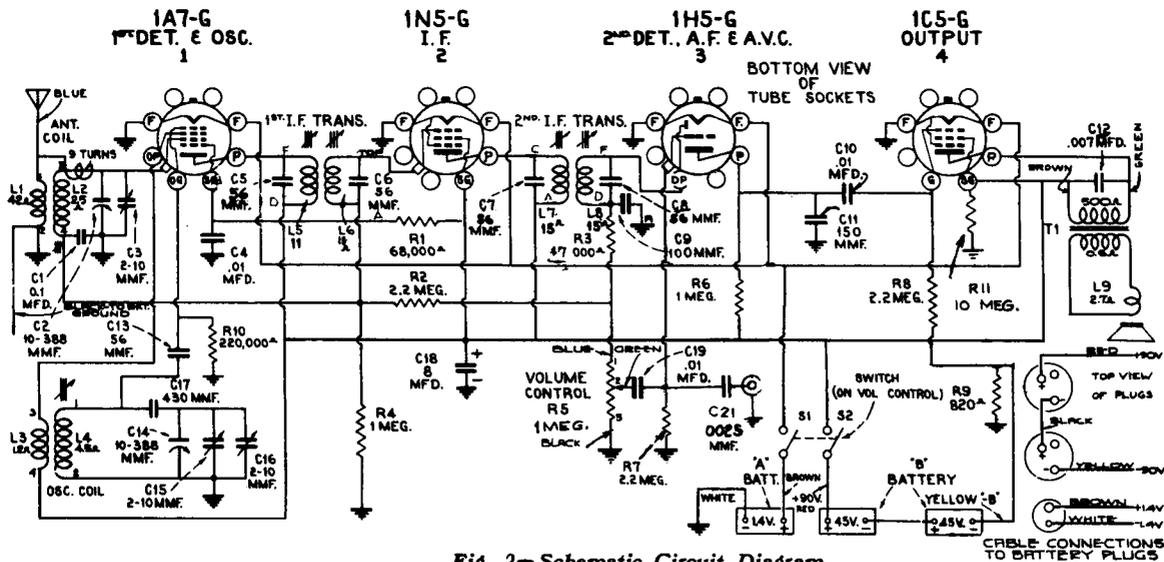


Fig. 2—Schematic Circuit Diagram

Alignment Procedure

Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output
No. 1	1N5-G I-F grid cap, in series with 0.01 mfd.	455 kc	Quiet point between 550-750 kc	L7 and L8 (2nd I-F transformer)
No. 2	1A7-G 1st-det. grid cap, in series with 0.01 mfd.	455 kc		L5 and L6 (1st I-F transformer)
No. 3	Antenna lead, in series with 200 mmfd.	600 kc	600 kc	L4 (oscillator) L2 (antenna)
No. 4	Antenna lead, in series with 200 mmfd.	1,500 kc	1,500 kc	C15† (oscillator) C3 (antenna)

† Trimmer C16 on gang condenser should be unscrewed one complete turn from tight, before adjusting C15.

Precautionary Lead Dress

1. Red lead from second i-f transformer to screen terminal of 1N5-G must be dressed close to and along edge of chassis.
2. Twisted green wire from antenna coil to gang must be 9 turns and kept clear of rotor.
3. Blue and green leads to volume control must be dressed close to chassis and between gang and front apron.

Radiotron Voltages

Readings taken with a receiver supply of 90 Volts "B" and 1.4 Volts "A".

Radiotron	Plate	Screen Grid	Grid	Filament
(1) 1A7G Converter 1A7G Oscillator	83V 83V	45V*	—	1.4V
(2) 1N5G I.F.	83V	83V	—	1.4V
(3) 1H5G Detector and Audio	64V	—	—	1.4V
(4) 1C5G Output	80V	83V	—7.4V*	1.4V

NOTE—Values with asterisk () are operating voltages in circuits with high series resistance. The actual measured value will be lower, depending on the voltmeter loading.

Measurements are made to chassis, with set tuned to a quiet point and the volume control at minimum. Values should hold within approximately plus or minus 20% with rated battery voltage.

REPLACEMENT PARTS FOR MODEL B64

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

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
RECEIVER ASSEMBLIES			
S-1997	Cable-Four conductor battery cable complete.....	12679	Resistor-2.2 megohms 1/4 watt (R2,R7,R8).....
13307	Capacitor-56 mmfd.(C5,C6,C7,C8)...	30992	Resistor-10 megohms-1/4 watt(R11).....
12723	Capacitor-56 mmfd.(C13).....	14887	Retainer-Tuning shaft retainer (Pkg.10).....
12720	Capacitor-100 mmfd.(C9).....	S-2688	Shaft-Station selector shaft.....
12724	Capacitor-150 mmfd.(C11).....	32149	Shield-Tube shield for 1N5G Tube..
30433	Capacitor-430 mmfd.(C17).....	31251	Socket-Tube socket.....
34459	Capacitor-.0025 mfd. (C21).....	14191	Spring-Drive cord tension spring (Pkg.3).....
5148	Capacitor-.007 mfd. (C12).....	S-3255	Transformer-1st I.F. Transformer..
14393	Capacitor-.01 mfd.(C4,C10,C19)..	35628	Transformer-2nd I.F. Transformer..
4839	Capacitor-0.1 mfd.(C1).....	S-3254	Volume Control and Power Switch (R5,S1,S2).....
32187	Capacitor- 8 mfd. Dry Electrolytic (C18).....	SPEAKER ASSEMBLIES (CRL 500-1)	
32150	Coil-Antenna coil (L1,L2).....	32907	Cap-Dust cap for cone centre (Pkg.5).....
32148	Coil-Oscillator coil (L3,L4).....	32904	Cone-Speaker cone and voice coil (L9).....
S-2665	Condenser-Two gang variable tuning (C2,C3,C14,C15,C16).....	S-2376	Speaker complete.....
S-2702	Cord-Drive cord assembly(14" long)	S-2377	Transformer-Output (T1).....
S-3252	Dial-Station selector dial scale..	MISCELLANEOUS ASSEMBLIES	
S-2120	Drum-Variable condenser drum assembly.....	30975	Crystal Station selector dial crystal.....
S-3250	Indicator-Station selector indicator pointer.....	30863	Knob-Tuning or volume control knob
32208	Plug-2 Prong male plug for battery cable.....	30886	Screw-Chassis mounting screw and washer assembly.....
12827	Plug-3 Prong male plug for battery cable.....	30900	Spring-Knob retaining spring (Pkg.5).....
14076	Resistor-820 ohms-1/4 watt (R9)...		
5132	Resistor-47,000 ohms-1/10 watt(R3)...		
13715	Resistor-68,000 ohms-1/4 watt(R1)...		
12264	Resistor-220,000 ohms-1/4 watt (R10).....		
13730	Resistor-1 megohm-1/4 watt(R4,R6)...		