



RCA VICTOR



MODELS VRA65 & VRA67

Six Tube, Single-Band, A-C, Superheterodyne Radio-Phonograph Combination

TECHNICAL INFORMATION AND SERVICE DATA

1948 No. 9

GENERAL SERVICE DIVISION

RCA VICTOR COMPANY LTD.



Model VRA67



Model VRA65

Electrical and Mechanical Specifications

FREQUENCY RANGE

Standard Broadcast S.B. 540-1630 K.C.
Intermediate Frequency A.M. 455 K.C.
Tuning Drive Ratio 12 to 1

RADIOTRON COMPLEMENT

(1) Type 6SA7 Converter
(2) Type 6SK7 I.F.
(3) Type 6SQ7 Det., A.V.C. & 1st A.F.
(4) Type 6AD7G Phase Inverter & Power Output
(5) Type 6F6 Power Output
(6) Type 5Y3GT Rectifier
Dial Lamps (2) Mazda No. 51 6-8 volts 0.2 amp.
Pilot Lamp (1) Mazda No. 47 6-8 volts 0.15 amp.

POWER OUTPUT

Undistorted 4 Watts
Maximum 5.5 Watts

LOUDSPEAKER

Type 12 inch P.M.
Voice Coil impedance 2.2 ohms at 400 cycles

CABINET DIMENSIONS (Inches)

	Height	Width	Depth
Model VRA65	32-3/16	33	17-1/32
Model VRA67	32-3/16	33	17-1/32

POWER SUPPLY RATINGS

Rating A 105-125 volts, 50-60 cycle, 75 watts
Rating B 105-125 volts, 25 cycle, 75 watts

PHONOGRAPH

Type RP-178 Automatic
Record Capacity Twelve 10-inch or Ten 12-inch
Turntable Speed 78 r.p.m.

PICKUP

Type Crystal
Impedance 100,000 ohms at 1,000 cycles
Average Output 1.4 volts at 400 cycles
across 500,000 ohm load

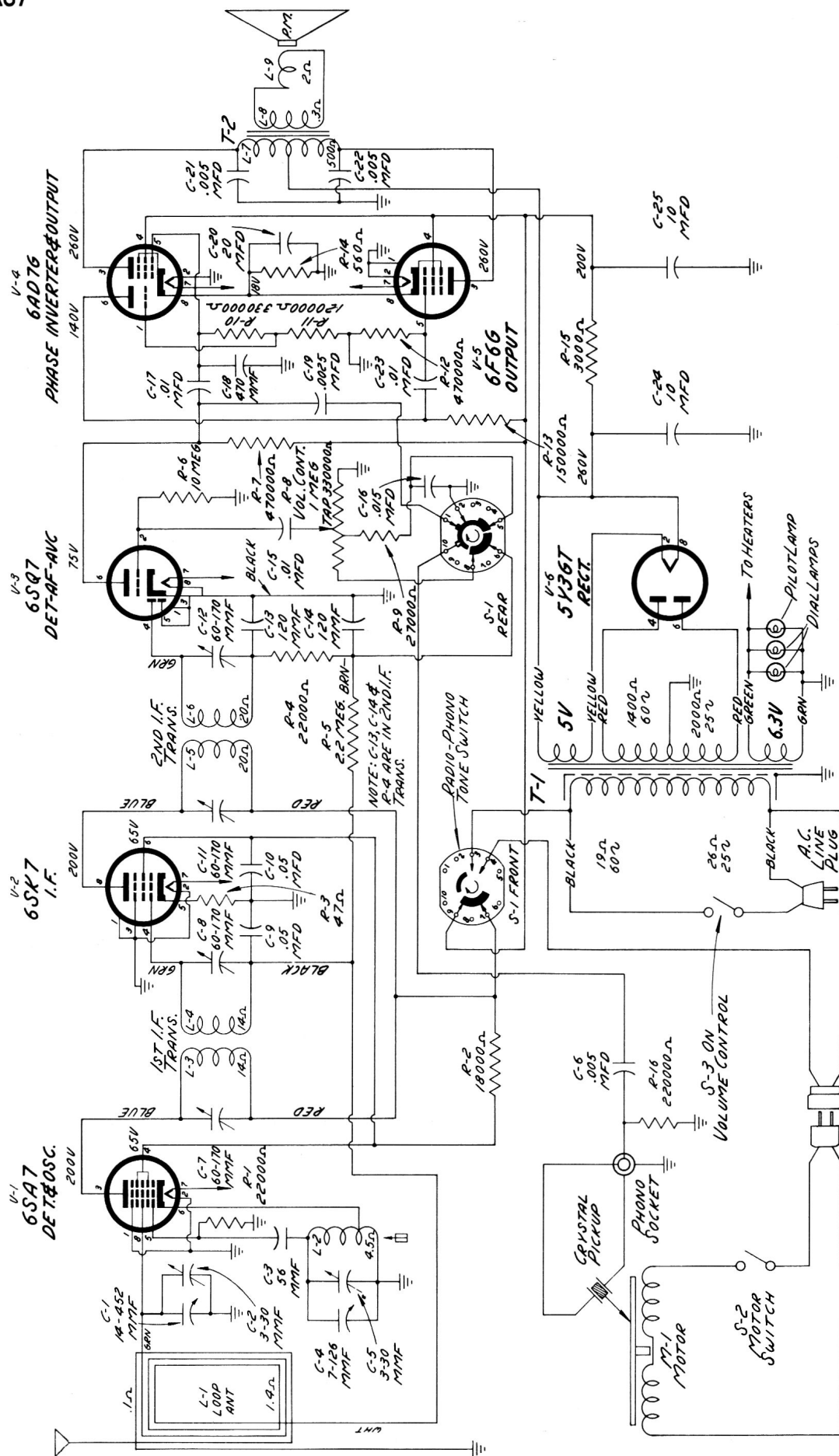
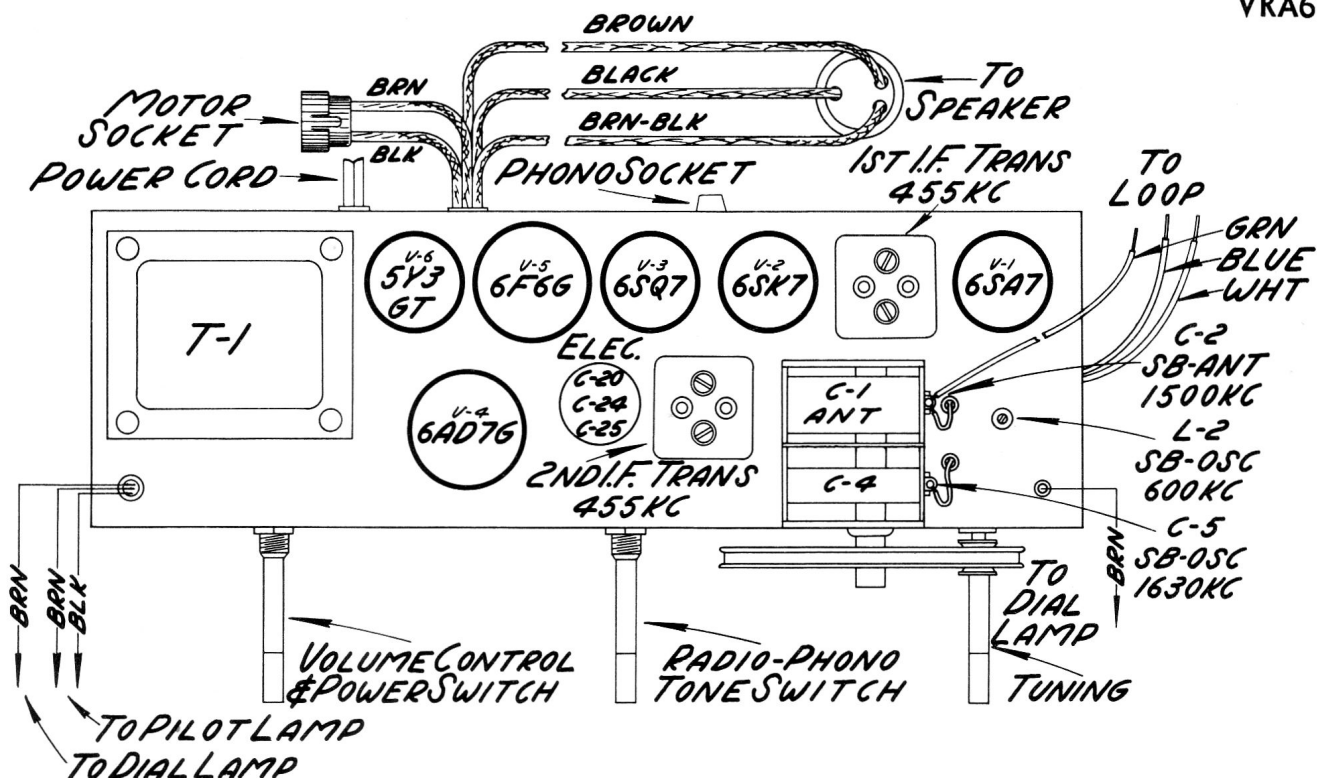


Fig. 1—Schematic Diagram.

Note:—The above voltages hold within plus or minus 20% when measured with a RCA Voltmyst or equivalent, on a line voltage of 117 volts. All voltages are measured to chassis.



ALIGNMENT PROCEDURE

REPLACEMENT PARTS FOR MODELS VRA65 & VRA67

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

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
CHASSIS ASSEMBLY		SPEAKER ASSEMBLY 12" P.M.	
S-4307	Capacitor-56 Mmfd. (C3).....	31825	Dust Cap (Pkg.5).....
39644	Capacitor-470 Mmfd. (C18).....	S-4270	Cone-Cone and voice coil assy. (L9).....
S-3644	Capacitor-.0025 Mfd.(C19).....	S-4274	Speaker-complete.....
S-3646	Capacitor-.005 Mfd.(C6,C21,C22)...	S-2934	Output transformer (T2)(L7,L8)...
S-3648	Capacitor-.01 Mfd.(C17,C23,C15)...	MISCELLANEOUS ASSEMBLIES	
S-3649	Capacitor-.015 Mfd.(C16).....	S-4313	Cord-Dial cord (Universal).....
70615	Capacitor-.05 Mfd.(C9,C10).....	S-4367	Cord-Power cord.....
S-4280	Condenser-Variable (C1,C2,C4,C5)...	S-4271	Dial-Dial Scale.....
32240	Capacitor-Electrolytic(C20,C24,C25)	S-4366	Decal.....
S-3480	Coil-Oscillator Coil (L2).....	36386	Decal His Master's Voice.....
S-4281	Indicator-Station Selector pointer.	13103	Jewel-lamp cap.....
30732	Resistor-47 ohms 1/4 watt (R3).....	S-4272	Knob-(Volume-tuning).....
30735	Resistor-560 ohms 1 watt (R14)....	S-4273	Knob-(Radio-phono).....
S-3521	Resistor-3,000 ohms W.W.5 watt(R15)	S-4279	Loop-Antenna loop assembly (L1).
30151	Resistor-18,000 ohms 1 watt (R2) ..	11765	Lamp-Pilot lamp.....
30492	Resistor-22,000 ohms 1/4 watt(R1,R4)	30868	Plug-Motor lead plug.....
12738	Resistor-27,000 ohms 1/4 watt(R9)...	5119	Plug-Speaker lead plug.....
30180	Resistor-120,000 ohms 1/4 watt(R11)	S-4040	Support-Lid support L.H.
14020	Resistor-150,000 ohms 1/4 watt(R13)	30900	Spring-Knob retaining spring (Pkg.5).....
14583	Resistor-220,000 ohms 1/4 watt(R16)	31418	Spring-Drive cord tension (Pkg.2).....
14983	Resistor-330,000 ohms 1/4 watt(R10)	33726	Washer-"C" washer for drive shaft (Pkg.5).....
30648	Resistor-470,000 ohms 1/4 watt (R7,R12)....	AUTOMATIC RECORD CHANGER MECHANISM	
30649	Resistor-2.2 Megohms 1/4 watt (R5).	Refer to Model RP-178 Service Note for Replacement parts and service data.	
30992	Resistor-10 Megohms 1/4 watt (R6).		
S-4277	Shaft-Drive Shaft.....		
S-4276	Switch-Tone and phono switch (S1)...		
S-4341	Socket-Tube socket.....		
S-4202	Socket-Phono socket.....		
S-3503	Transformer-1st I.F.(L3,L4,C7,C8)...		
S-3504	Transformer-2nd I.F.(L5,L6,C11,C12)		
S-2317	Transformer-Power 60 cycle (T1)....		
S-3501	Transformer-Power 25 cycle (T1)....		
S-4275	Volume Control 1 Meg. (R8).....		

All prices and parts are subject to change or withdrawal without notice.