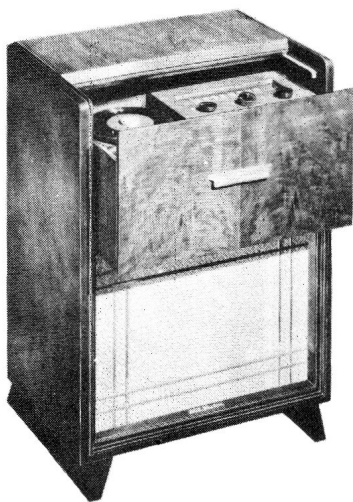




MODEL 9W63



RCA VICTOR



Radio Phonograph Combination

MODEL 9W63

SERVICE DATA

— 1949 NO. 16 —

GENERAL SERVICE DIVISION
RCA VICTOR COMPANY LIMITED
MONTREAL, CANADA

Electrical and Mechanical Specifications

Tuning Ranges

Standard Broadcast540-1600 kc
Short Wave5.8-18 mc
Intermediate Frequency455 kc

Tube Complement

(1) RCA 6BE6 Converter
(2) RCA 6BA6 I.F.
(3) RCA 6AV6 Audio
(4) RCA 6C4 Driver
(5) RCA 6K6GT Output
(6) RCA 6X5GT/G Rectifier

Dial Lamps(2) Mazda 51

Tuning Drive Ratio12 to 1 (6 turns of knob)

Power Output

Undistorted2.5 watts
Maximum3.5 watts

Loudspeaker

Type12" P.M. Dynamic
Voice Coil Impedance2.2 Ohms at 400 cycles

Power Supply Ratings

Rating A.....105-125 Volts, 50 cycles, .50 Amps, 58 watts
Rating B.....105-125 Volts, 25 cycles, .50 Amps, 58 watts

Cabinet Dimensions

Height 31-3/16"
Width 22 1/4"
Depth 15"

Phonograph

Type RP168A-1
Record capacityTen 7 In. Records
Turntable speed45 R.P.M.
PickupCrystal (Medium Output)



The dial scale drawing is a full size reproduction. It can be used as a reference in alignment procedure.

FIG. 1—DIAL SCALE

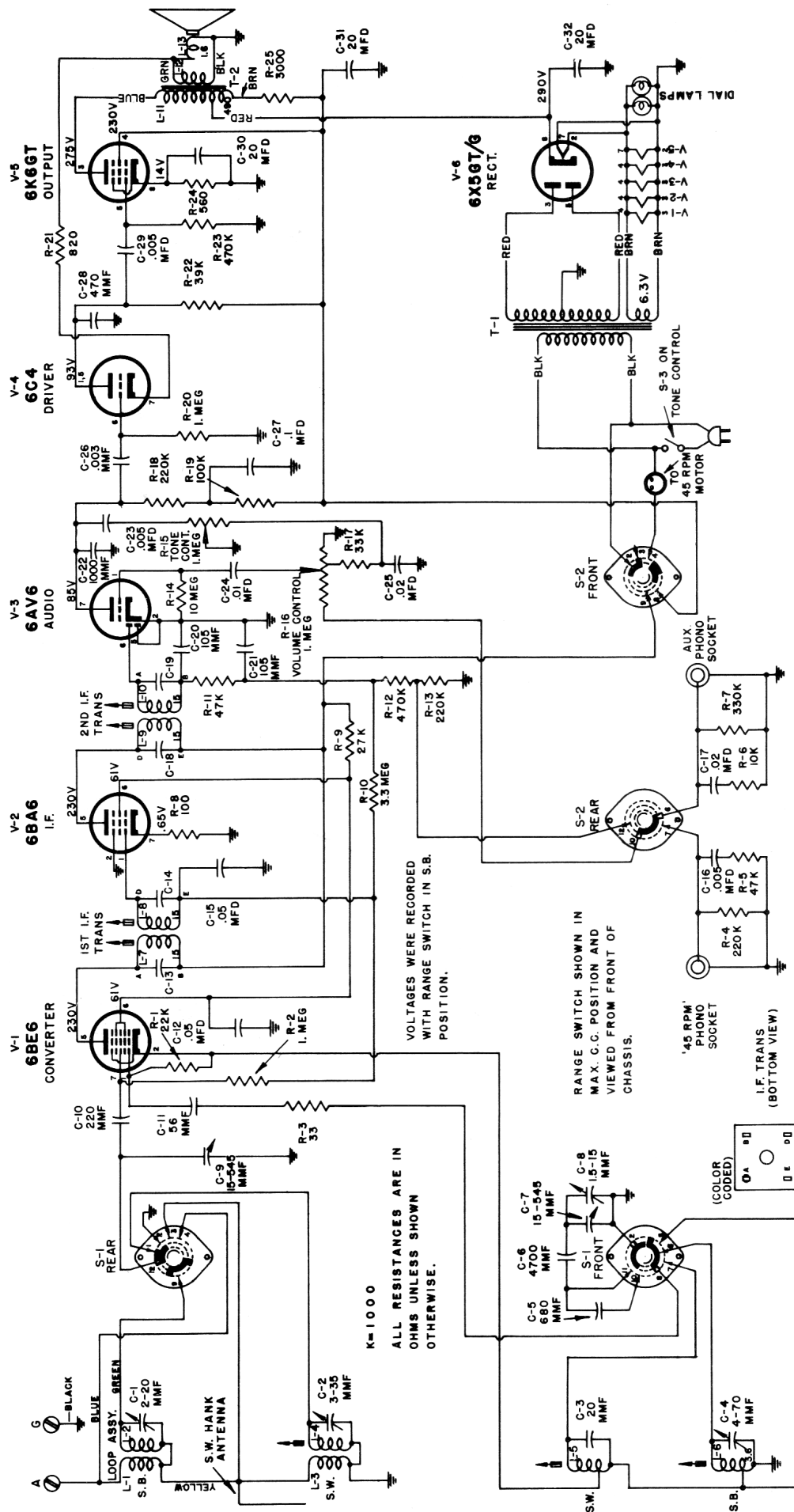


Fig. 2—SCHEMATIC DIAGRAM

SERVICE DATA

Removal of Chassis

In order to remove the chassis from the cabinet it is necessary to extend the forward displacement of the drawer. This may be accomplished by following the procedure outlined below.

- (1) Remove the four screws holding the lid activating levers to the drawer base located at the bottom rear of the drawer;

this enables the drawer to be extended so that the panel and the receiver may be easily removed.

- (2) Remove the knobs.
- (3) Remove the five screws fastening the radio panel. The panel may now be removed.
- (4) Remove the two screws fastening the chassis base board to the drawer partition.
- (5) Lift receiver out.

Alignment Procedure

Before aligning the receiver, set the gang condenser for maximum capacity and then set the dial cursor on the calibration point at the extreme left hand end of the dial.

When only a portion of the circuit is to be aligned select the required portion and perform all the remaining steps.

In order to obtain best results, it is advisable to align the 455 KC I.F.'s with the help of a cathode ray oscilloscope. The scope should be connected across the volume control. If this equipment is not available, use the method outlined below in the alignment chart.

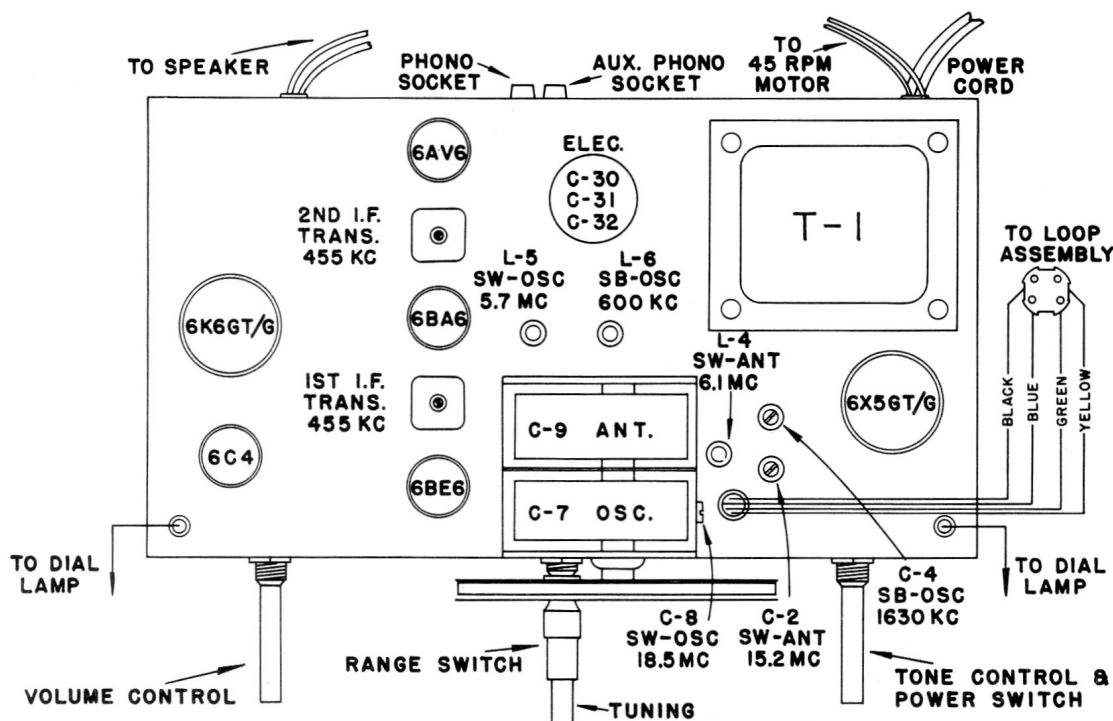


FIG. 3—CHASSIS LAYOUT AND ALIGNMENT ADJUSTMENT

ALIGNMENT CHART

ORDER OF ALIGNMENT	TEST OSCILLATOR				RECEIVER				
	CONNECT "HI" SIDE TO	CONNECT "LO" SIDE TO	DUMMY ANTENNA	FREQUENCY SETTING	RANGE SELECTOR	DIAL SETTING	CIRCUIT TO ADJUST	ADJUSTMENT SYMBOLS	NOTES
I.F. ALIGNMENT	1 Pin #1 6BA6	Gnd.	.1 mfd	455 KC	S. B.	"HI" END	2nd I.F. Trans.	Top & Bottom Slugs	Max. Out.
	2 Pin #7 6BE6	Same	Same	Same	Same	Same	1st I.F. Trans.	Top & Bottom Slugs	Same
	3 Repeat steps 1 & 2.								
S.W. ALIGNMENT	4 Ter. "A" on loop	Gnd.	300 ohms	5.7 Mc	S.W.	"LO" End	Osc.	L-5	Same
	5 Same	Same	Same	18.5 Mc	Same	"HI" End	Osc.	C-8	Same
	6 Same	Same	Same	6.1 Mc	Same	6.1 Mc	Ant.	L-4	Same
	7 Same	Same	Same	15.2 Mc	Same	15.2 Mc	Ant.	C-2	Same
	8 Repeat steps 4 to 7.								
S.B. ALIGNMENT	9 Same	Same	220 mmf	600 Kc	S. B.	600 Kc	Osc.	L-6 Rock In to Loop	Same
	10 Same	Same	Same	1630 Kc	Same	"HI" End	Osc.	C-4	Same
	11 Same	Same	Same	1500 Kc	Same	1500 Kc	Loop Trimmer	C-1*	Same
	12 Repeat steps 9 to 11								

* Align C-1 when receiver & loop assembly are in the cabinet.

REPLACEMENT PARTS FOR MODEL 9W63

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
CHASSIS ASSEMBLY			CHASSIS ASSEMBLY (Cont'd)		
S-5363	Capacitor - Trimmer (C2, C4).....		S-5358	Switch - Range (S-1, S-2).....	
31871	" - Ceramic 20 MMF, 5% 500 V.(C3).....		S-5344	Socket - Phono socket - dual.....	
S-4221	" " 220 MMF 20%, 350 V.(C10).....		S-4378	Transformer - Power 60 cycle (T-1).....	
S-4819	" " 470 MMF 20%, 350 V.(C28).....		S-4380	" " 25 cycle (T-1).....	
14498	" - Mica - 680 MMF 5%, 500 V.(C5).....		S-4487	" - 1st I.F. (C13,C14,L7,L8).....	
S-5370	" - Ceramic 1000 MMF, 20%, 350 V.(C22).....		S-4662	" - 2nd I.F. (C18,C19,L-9,L-10).....	
S-4523	Capristor - 56 MMF and 33 Ohms (C20,C21,R11).....		S-5269	Tone Control (R15,S-3) 1.0 Megohm.....	
S-4614	" - 2 of 105 MMF & 1-47000 Ohms (C20,C21,R11).....		S-5356	Volume Control (R16) 1.0 ".....	
39668	Capacitor - Mica - 4700 MMF, 5%, 500 V.(C6).....		S-5359	Transformer, Output - (T-2)(L-11,L-12).....	
	Capacitor - Paper .005 MFD 20% 400 V. (C23,C29).....		SPEAKER ASSEMBLY 12"		
	" " .005 " 10% 200 V. (C16).....		S-3568	Cone - Cone & Voice Coil Ass'y (L-13).....	
	" " .003 " 20% 400 V. (C26).....		MISCELLANEOUS ASSEMBLY		
	" " .05 " 20% 400 V. (C12).....		S-4313	Cord - dial cord.....	
	" " .05 " 20% 200 V. (C15).....		S-5350	Dial Scale.....	
	" " .02 " 10% 200 V. (C17-C25).....		S-5323	Decal.....	
	" " .01 " 20% 400 V. (C24).....		S-4390	Knob - Walnut.....	
	" " .1 " 20% 400 V. (C27).....		S-4387	" ".....	
S-5360	Condenser & Drum (C2,C9,C7,C8).....		S-3870	" ".....	
S-5362	Capacitor - Electrolytic 20-20-20 mfd.(C30,C31,C32).....		S-5275	" - Mahogany.....	
S-5351	Coil - S.W. Antenna Coil (L3-L4).....		S-5277	" ".....	
S-5352	" BC Oscillator coil(L6).....		S-5279	" ".....	
S-5353	" S.W. " coil(L5).....		S-5276	" Blonde.....	
	Resistor - 100 Ohms 20% 1/4 watt (R8).....		S-5278	" ".....	
	" 560 " 10% 1/2 " (R24).....		S-5280	" ".....	
	" 820 " 10% 1/4 " (R21).....		S-5354	Loop - Loop assembly (L1, L2).....	
	" 3000 " 5% 1 " (R25).....		S-5272	Pointer.....	
	" 10,000 " 10% 1/4 " (R6).....		AUTOMATIC RECORD CHANGER		
	" 22,000 " 20% 1/4 " (R1).....		Refer to RP168 Series Service Note for replacement parts and service data.		
	" 27,000 " 10% 1 " (R9).....				
	" 33,000 " 10% 1/4 " (R17).....				
	" 39,000 " 10% 1/2 " (R22).....				
	" 47,000 " 10% 1/4 " (R5).....				
	" 100,000 " 20% 1/4 " (R19).....				
	" 220,000 " 10% 1/4 " (R13).....				
	" 220,000 " 20% 1/4 " (R4,R18).....				
	" 330,000 " 10% 1/4 " (R7).....				
	" 470,000 " 10% 1/4 " (R23).....				
	" 470,000 " 20% 1/4 " (R12).....				
	" 1 Megohm 20% 1/4 " (R2,R20).....				
	" 3.3 " 20% 1/4 " (R10).....				
	" 10 " 20% 1/4 " (R14).....				

Only items listed under stock numbers are available as Replacement Parts.
All parts and prices subject to change or withdrawal without notice.