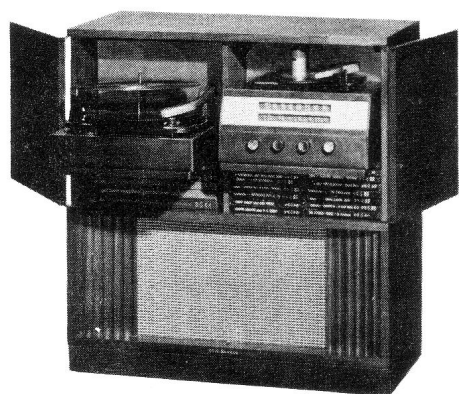




MODEL V-408



RCA VICTOR



RADIO & DUAL PHONOGRAPH COMBINATION

MODEL V-408

SERVICE DATA

—1951 No. 13—

GENERAL SERVICE DEPARTMENT
RCA VICTOR COMPANY, LTD
MONTREAL, QUE.

Electrical and Mechanical Specifications

TUNING RANGES:

Standard Broadcast 540—1600 K.C.
Short Wave 5.8—19.0 M.C.
Intermediate Frequency 455 K.C.

TUBE COMPLEMENT:

(1) RCA 6BA6 R. F. Amplifier
(2) RCA 6BE6 Converter
(3) RCA 6BA6 I. F. Amplifier
(4) RCA 6AV6 Det. A.V.C. & audio
(5) RCA 6C4 Phase Inverter
(6) RCA 6V6GT Output
(7) RCA 6V6GT Output
(8) RCA 6X5GT Rectifier
Dial Lamps (2) Mazda 1815
Dial Lamps (2) Mazda 44
Tuning drive ratio 17:1

POWER OUTPUT

Undistorted 5.5 Watts
Maximum 6.5 Watts

LOUDSPEAKER

Type 12 Inch P.M.
Voice coil impedance 2.2 ohms at 400 cycles.

POWER SUPPLY RATINGS

Rating A, 105-125 volts, 60 cycles, 70 watts
Rating B, 105-125 volts, 25 cycles, 70 watts

CABINET DIMENSIONS

Height 32½"
Width 32"
Depth 16-1/16"

PHONOGRAPH (RP201)

Record capacity Ten twelve or twelve ten
Turntable speed 33-78 R.P.M.
Pickup Crystal (Med. out)

PHONOGRAPH (RP168C)

Record capacity Eight 7-inch
Turntable speed 45 R.P.M.
Pickup Crystal (Med. Out.)

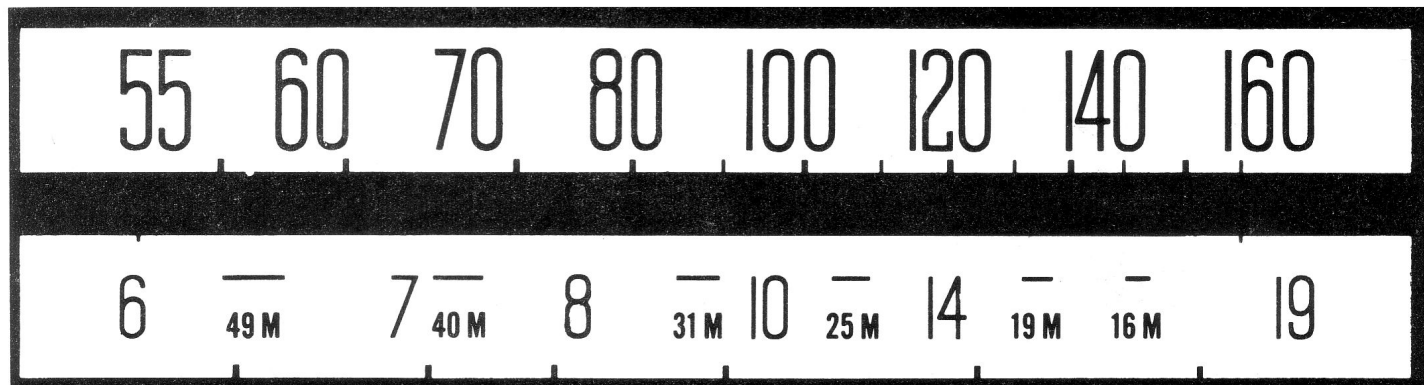


Fig. 1.—The Dial Scale Drawing shown is a full size reproduction.
It can be used as a reference in alignment procedure.

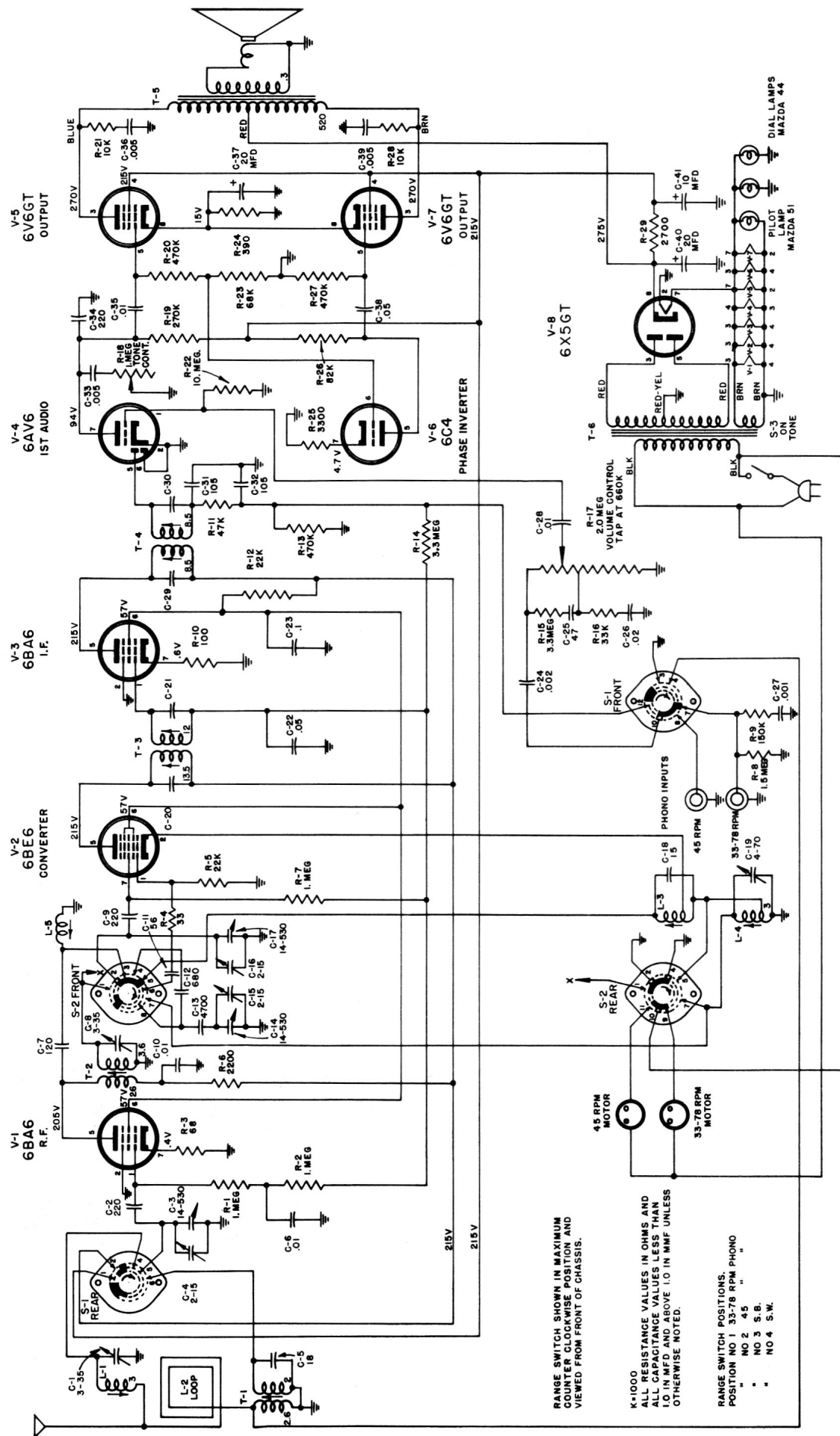


Fig. 2.—Schematic Diagram.

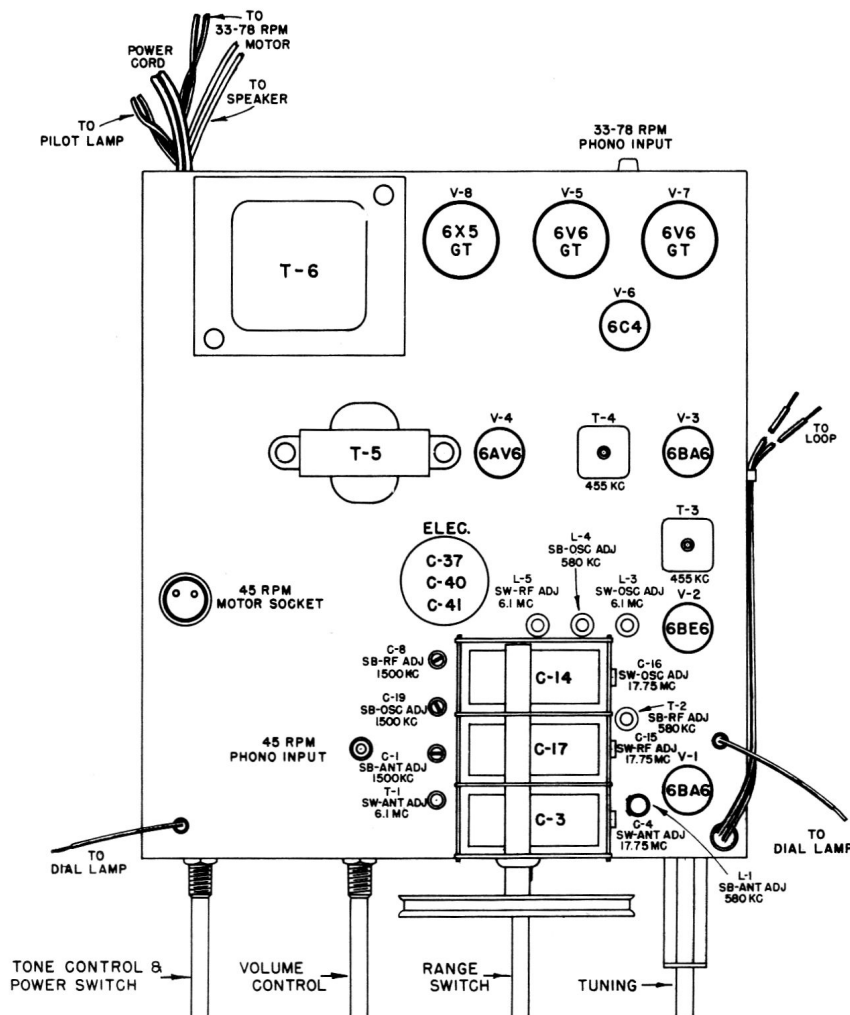


Fig. 3.—Chassis Layout and Alignment Adjustment

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.

ALIGNMENT CHART

Order of Alignment		TEST OSCILLATOR				RECEIVER				
		Connect "HI" Side To	Connect "LO" Side To	Dummy Antenna	Frequency Setting	Range Selector	Receiver Dial Setting	Circuit To Adjust	Adjustment Symbols	Notes
I.F. Alignment	1	V-3, 6BA6 Pin #1	GND	1 MFD	455KC	S.B.	'HI' End	2nd I.F. Trans.	T-4 Top & Bottom	Max. Out.
	2	V-2, 6BE6 Pin #7	Same	Same	Same	Same	Same	1st I.F. Trans.	T-3 Top & Bottom	Same
	3	Repeat Steps 1 & 2								
S.W. Alignment	4	Ant Terminal	GND	300 OHMS	6.1 MC	S.W.	17.75 MC	S.W. OSC RF ANT	L-3 L-5 T-1	Same
	5	Same	Same	Same	17.75 MC	Same	17.75 MC	S.W. OSC S.W. RF S.W. ANT	C-16 C-15 C-4	Same
	6	Repeat Steps 4 & 5								
S.B. Alignment	7	Ant Terminal	GND	10 MMF	580 KC	S.B.	580 KC	S.B. OSC S.B. RF S.B. ANT	L-4 T-2 L-1	Same
	8	Same	Same	Same	1500 KC	Same	1500 KC	S.B. OSC S.B. RF S.B. ANT	C-19 C-8 C-1	Same
	9	Repeat Steps 7 & 8								

REPLACEMENT PARTS FOR MODEL V-408

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		CHASSIS ASSEMBLY	
*S-6271	Capacitor, trimmer, 3 sections 2(3-35 mmf) 1(4-70 mmf.)(C1,C8,C19)		Resistor 3300 ohms 10%, $\frac{1}{2}$ W. (R25)
*S-6252	Capacitor, ceramic T.C. 15.0 mmf. 10%, (C18)		" - 10,000 ohms 10%, $\frac{1}{2}$ W. (R21,R28)
*S-6253	Capacitor, ceramic T.C. 18.0 mmf. 10%, (C5)		" - 22,000 ohms 20%, $\frac{1}{2}$ W. (R-5)
S-5544	Capacitor, mica 47 mmf. 10% 500 V., (C-25)		" - 22,000 ohms 10%, $\frac{1}{2}$ W. (R12)
S-4523	Capristor, 56 mmf. 33 ohms (C11,R4)		" - 33,000 ohms 10%, $\frac{1}{2}$ W. (R16)
S-4614	" 2-105 mmf. 47,000 ohms (C31, C32,R11)		" - 68,000 ohms 10%, $\frac{1}{2}$ W. (R23)
71614	" Ceramic 120 mmf. 10% (C7)		" - 82,000 ohms 10%, $\frac{1}{2}$ W. (R26)
S-5940	Capacitor, 220 mmf. 20% (C2,C9,C34)		" - 150,000 ohms 10%, $\frac{1}{2}$ W. (R9)
S-5941	" mica 680 mmf. 50% (C12)		" - 270,000 ohms 10%, $\frac{1}{2}$ W. (R19)
S-5942	" " 4700 mmf. 5% (C13)		" - 470,000 ohms 10%, $\frac{1}{2}$ W. (R20)
	" Paper .001 mfd. 10%, 600V. (C27)		" - 470,000 ohms 20%, $\frac{1}{2}$ W. (R27)
	" " .0022 mfd. 20% 600V. (C24)		" - 1.0 Megohm 20%, $\frac{1}{2}$ W. R1,R2,R7
	" " .0047 mfd. 10% 400V. C-33		" - 1.5 " 10%, $\frac{1}{2}$ W. (R8)
	" " .005 mfd. 10% 1,000V. (C36,C39)		" - 3.3 " 20%, $\frac{1}{2}$ W. (R14)
	" " .01 mfd. 20% 200 V. C28		" - 10.0 " 20%, $\frac{1}{2}$ W. (R22)
	" " .01 mfd. 20% 400 V. C35	*S-6270	Switch - Range switch (S-1 $\frac{1}{2}$ S-2)
73960	" " .01 mfd. C-6,C10	S-4487	Transformer - 1st I.F. Transformer
	" " .022 mfd. 10% 200 V. (C26)	S-5086	" - 2nd " " (T4)
	" " .047 mfd. 20% 200 V. C-22	*S-6272	" - Output transformer (T5)
	" " .047 mfd. 20% 400 V. (C-38)	S-4381	" - Power, 25 cycles (T6)
	" " .1 mfd. 20% 400 V.(C-23)	S-4379	" - " 60 " (T6)
*S-6262	Capacitor Electrolytic 20 Mfd. 400 V. (C40)	SPEAKER ASSEMBLIES	
	" 10 Mfd. 400 V. (C41)	S-9203	Speaker 12" P.M.
	" 20 Mfd. 25 V. (37)	S-9336	Cone - Cone & Voice coil assy.
*S-6360	Coil - S.B. ant. coil (L-1)	MISCELLANEOUS ASSEMBLIES	
*S-6268	" - S.B.R.F. coil (T-2)	*S-6260	Back - cabinet back (Wal. Mah.)
*S-6267	" - S.B. Osc. coil (1-4)	*S-6261	" - " " (Oak)
*S-6264	" - S.W. Ant. coil (T-1)	*S-6290	Decalcomania
*S-6265	" - S.W. R.F. coil (L-5)	S-4313	Dial cord
*S-6266	" - S.W. Osc. coil (L-3)	*S-6269	Dial Scale
*S-6263	Condenser - Gange condenser & drum (C3, C14,C17,C4,C15,C16)	*S-6291	Door Pulls
*S-6258	Control - Tone control (R-18,S-3)	*S-6292	Grille Cloth (Wal-Mah.)
*S-6259	" - Volume " (R-17)	*S-6293	Grille Cloth (Oak)
*S-6273	Resistor - 68 ohms 10%, $\frac{1}{2}$ W. (R-3)	S-6021	Knob Assembly (Range Switch)
*S-6274	" - 100 ohms 10%, W. (R10)	S-6019	" " (Vol. tone-tuning)
	" - 390 ohms 10%, $\frac{1}{2}$ W. (R24)	*S-6254	Lamp socket & lead assy. (dial)
	" - 2200 ohms 20%, $\frac{1}{2}$ W. (R6)	*S-6255	" " & " " (dial)
	" - 2700 ohms 10%, 2 W. (R29)	*S-6256	" " & " " (Jewel)
			Lamps - dial & pilot lamps - use Mazda 44 & 51 respectively
		*S-6257	Pointer
		30868	Plug-- Phono motor plug
		S-4202	Socket - Phono
		*S-6275	Socket - Phono motor socket
		74421	Springs - Conical mtg. spring for RP168C changer
		74422	" " " "
		74423	" " " "
		* Indicates New Stock Items.	

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