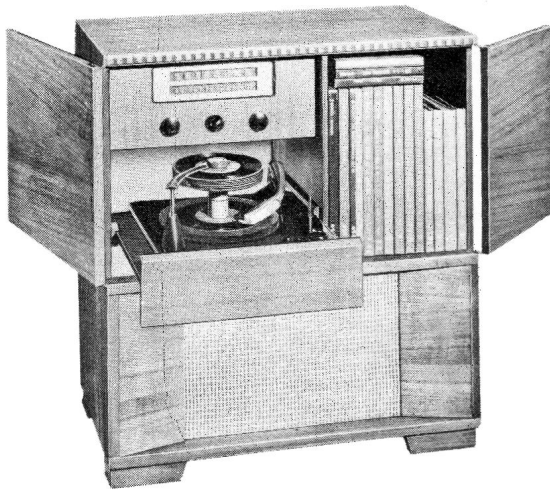




MODEL V-507



RCA VICTOR



RADIO PHONOGRAPH COMBINATION

Model V507

SERVICE DATA

— 1952 No. 4 —

HEAD OFFICE SERVICE DEPARTMENT
RCA VICTOR COMPANY, LTD
MONTREAL, QUE.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

TUNING RANGE

Standard Broadcast 540-1600 KC.
Short Wave 5.8-19.6 MC.
I.F. 455 KC.

TUBE COMPLEMENT

1. R.C.A. 6BJ6 R.F.
2. R.C.A. 12BE6 Converter
3. R.C.A. 12SK7 I.F. Amp.
4. R.C.A. 12AV6 Audio, Det. A.V.C.
5. R.C.A. 6C4 Ph. Inverter
6. R.C.A. 35L6GT Output
7. R.C.A. 35L6GT Output
Rectifier Selenium
Dial Lamps (3) Mazda 1813
Tuning Ratio Drive 11.1 (5½ Turns of Knob)

POWER SUPPLY RATING

Rating A ---- 105-125 Volts, 25 cycles, .55 amps. 63 watts
Rating B ---- 105-125 Volts, 60 cycles, .55 amps. 63 watts

LOUDSPEAKER

Size and Type 10" P.M.
Voice coil impedance 3.4 ohms at 400 cycles

POWER OUTPUT

Undistorted 2.5 watts
Maximum 3.5 watts

RECORD CHANGER 124196 Series

Turntable Speed 33⅓, 45 or 78 r.p.m.
Record capacity Up to 14 seven inch
or 12 ten inch
or 10 twelve inch
or 10 ten and twelve inch intermixed

CABINET DIMENSIONS

Height 31"
Width 29¾"
Depth 15⅞"

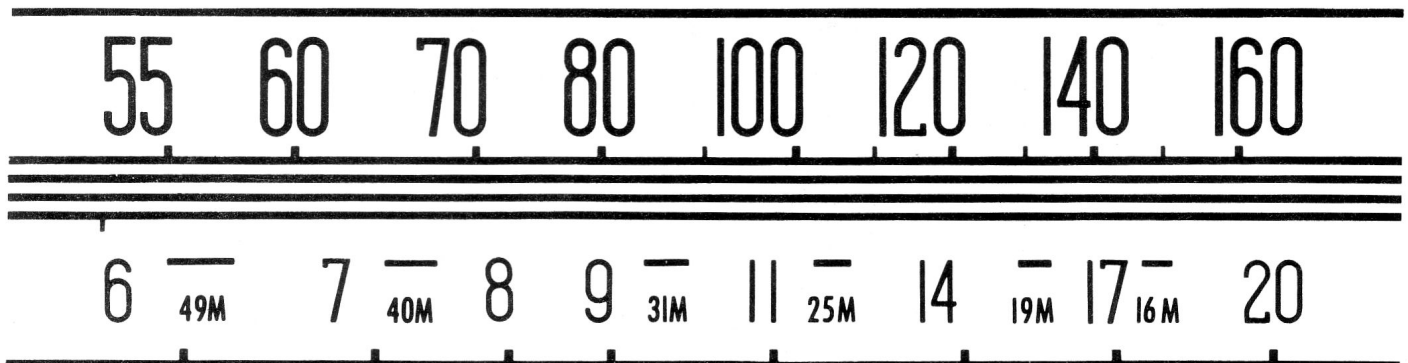


FIG. 1 DIAL SCALE V-507

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

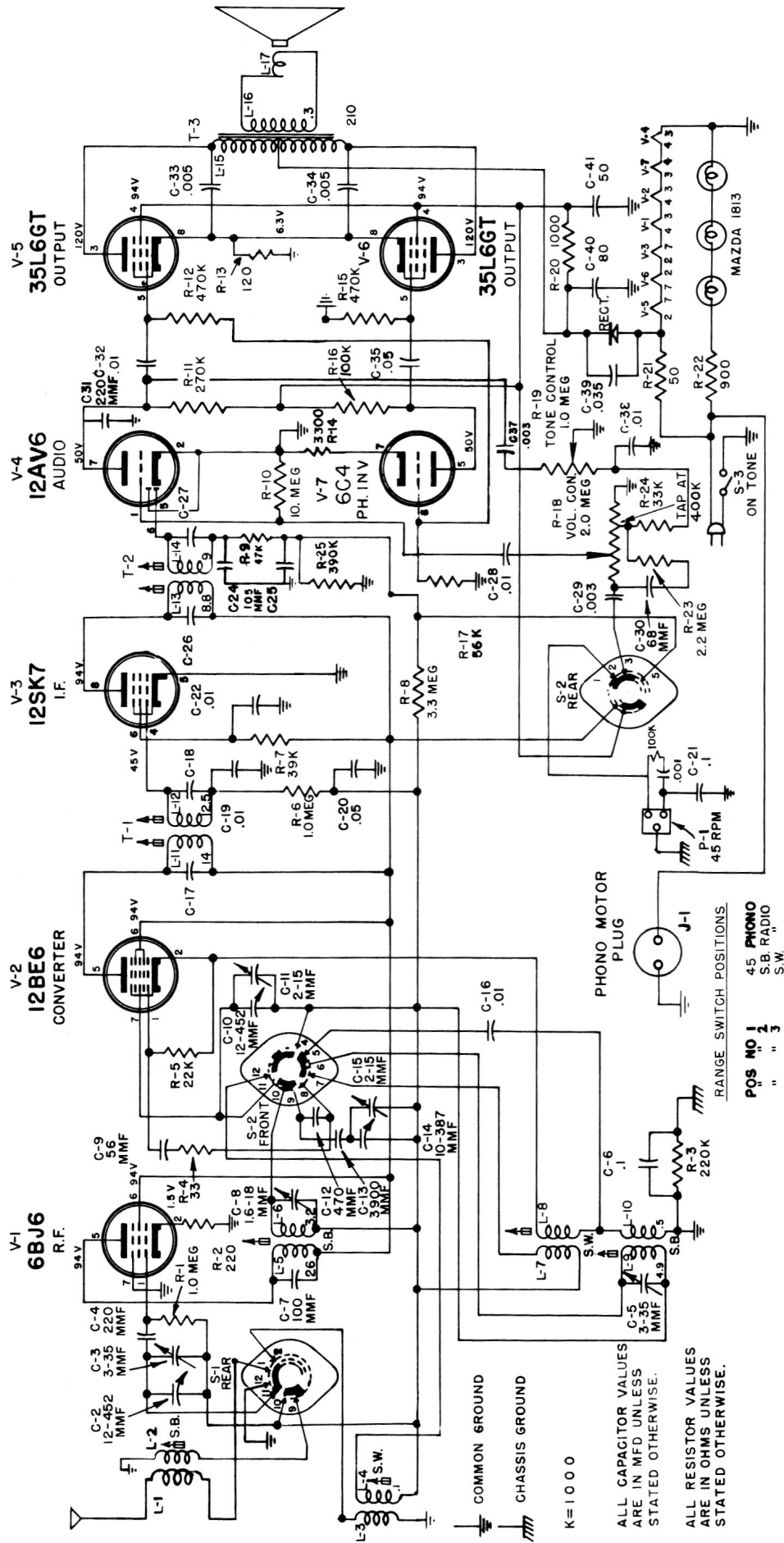


FIG. 2 SCHEMATIC DIAGRAM

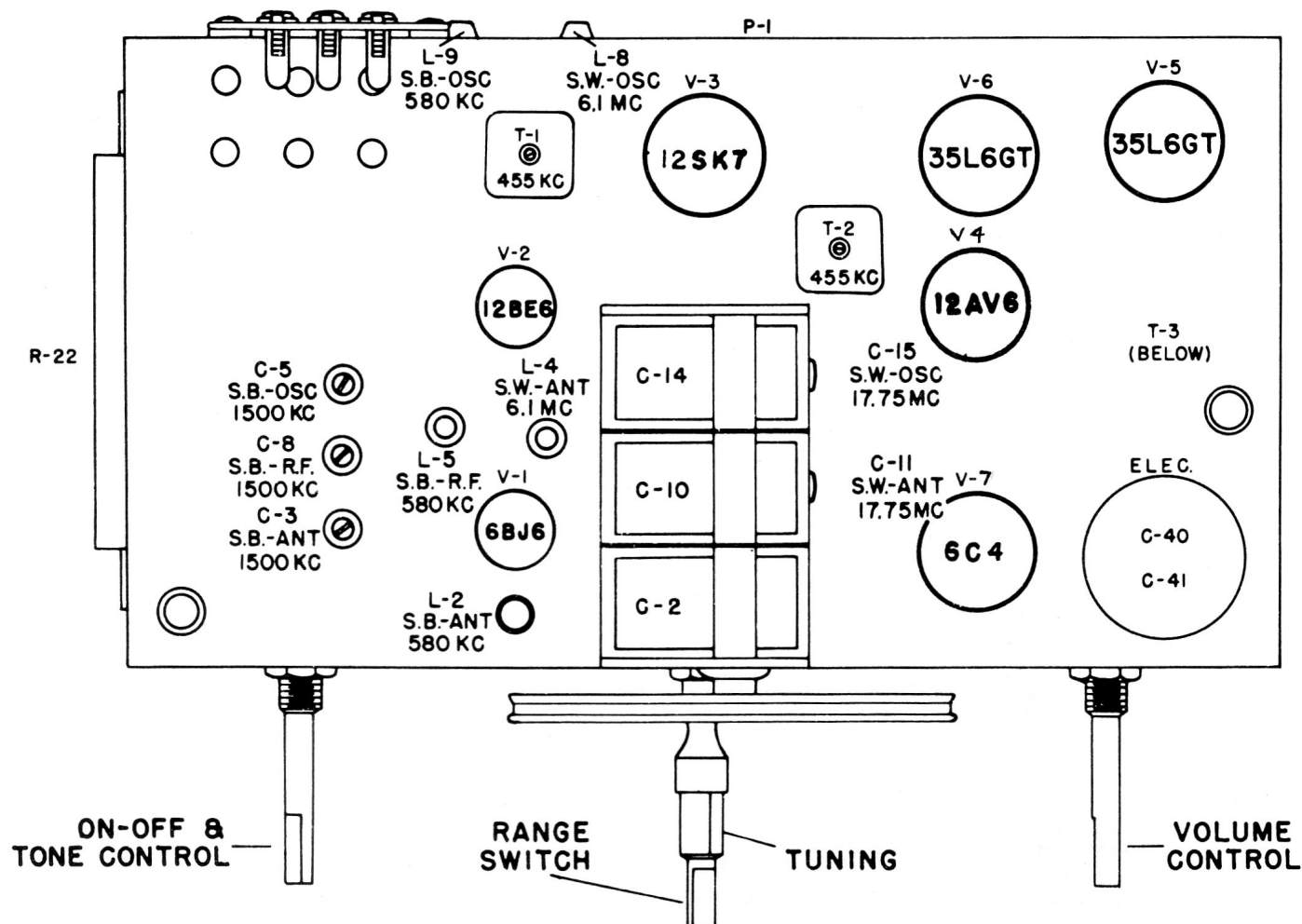


FIG. 3 CHASSIS LAYOUT AND ALIGNMENT ADJUSTMENT.

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.

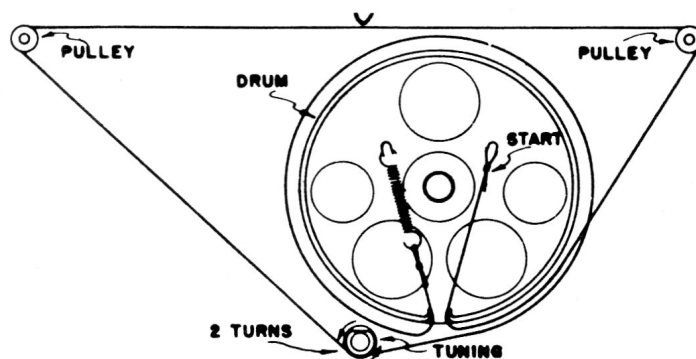


Fig. 4—Dial Cord Stringing

ALIGNMENT CHART

		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 #4 12SK7	Gnd.	.1 mfd	455 KC	S.B.	"HI" END	T-2 2nd I.F. Trans.	Top & Bottom Slugs	Max. Out.
	2	Pin #7 12BE6	Same	Same	Same	Same	Same	T-1 1st I.F. Trans.	Top & Bottom Slugs	Same
	3	Repeat steps 1 & 2.								
S.W. ALIGNMENT	4	Ant. Ter. BRD #1	Gnd.	300 ohms	17.75 Mc	S.W.	17.75 Mc.	Osc.	C-15	Same
	5	Same	Same	Same	17.75 Mc	Same	17.75 Mc	Ant.	C-11	Same
	6	Same	Same	Same	6.1 Mc	Same	6.1 Mc	Osc.	L-8	Same
	7	Same	Same	Same	6.1 Mc	Same	6.1 Mc	Ant.	L-4	Same
	8	Repeat steps 4 to 7.								
S.B. ALIGNMENT	9	"HI" Side of Loop	Same	10 mmf	1500 Kc	S.B.	1500 Kc	C-5 C-8 C-3	Osc. R.F. Ant.	Same
	10	Same	Same	Same	580 Kc	Same	580 Kc	L-9 L-5 L-2	Osc. R.F. Ant.	Same
	11	Repeat steps 9 to 10.								

REPLACEMENT PARTS FOR MODEL V-507

Insist on Genuine Factory Tested Parts, which are readily identified and may be purchased from Authorized Dealers.

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
CHASSIS ASSEMBLIES		Chassis Assembly (Cont'd)	
S-5966	Capacitor, trimmer 3-35 MMF (C-3)	"	- 33,000" 10% $\frac{1}{2}$ W. (R-24)(R-14)
S-5965	" " dual (3-35, 1.6-18 MMF) (C-5, C-8)	"	- 39,000" 10% $\frac{1}{2}$ W. (R-7)
S-4523	Capristor, 56 MMF., 33 ohms (C-9, R-4) (C-30)	"	- 220,000 ohms 20% $\frac{1}{2}$ W. (R-3)
* S-6215	Capacitor, ceramic, 68 MMF. 10%, 500V. (C-7)	"	- 270,000 " 10% $\frac{1}{2}$ W. (R-11, R-16)
73152	" " 100 MMF, 20%, 500V. (C-24, C-25, R-9)	"	- 390,000 " 10% $\frac{1}{2}$ W. (R-25)
S-4614	Capacitor, 2-105 MMF., 47000 ohms	"	- 470,000 " 10% $\frac{1}{2}$ W. (R-15)
S-5940	Capacitor, ceramic 220 MMF. 20%. 350 V. (C-4, C-31)(C-12)	"	- 470,000 " 20% $\frac{1}{2}$ W. (R-12)
* S-6190	Capacitor, Mica 470 MMF., 5%, 500 V. (C-13)	"	- 1.0 Megohm 20% $\frac{1}{2}$ W. (R-1, R-6)
* S-6216	" " 3900 MMF., 5%, 500 V.	"	- 2.2 " 10% $\frac{1}{2}$ W. (R-23)
"	.003 Mfd. 20%, 200V. (C-29)	"	- 3.3 " 20% $\frac{1}{2}$ W. (R-8)
"	.005 Mfd. 10%, 600 V. (C-33, C-34) (C-19, C-28)(C-38)	"	- 10 " 20% $\frac{1}{2}$ W. (R-10, R-17)
"	.01 Mfd. 10%, 200 V.	S-6555	Switch - Range switch (S-1)
"	.01 Mfd. 20%, 200 V.	S-4487	Transformer - 1st I.F. transformer (T-1)
"	C-16)	* S-6192	" - 2nd I.F. " (T-2)
"	.01 Mfd. 20%, 400 V. (C-22, C-32)	* S-6187	" - Output " (T-3)
"	.035 Mfd. 10%, 400V. (C-39)	SPEAKER ASSEMBLY	
"	.05 Mfd. 20%, 200 V. (C-20)	S-5813	Speaker 10"
"	.05 Mfd. 20%, 400 V. (C-35)	S-5929	Cone - Cone & voice coil assy (L-17)
"	.1 Mfd. 10%, 400 V. (C-6, C-21)	MISCELLANEOUS ASSEMBLIES	
S-5703	" - Electrolytic 50 - 80 Mfd. 150 V. (C-40, C-41)	S-6551	Back - cabinet back (wal-mah.)
* S-6235	Coil - S.B. Ant. coil (L-1, L-2)	S-6552	" " " (blonde)
* S-6182	" - S.B. R.F. coil (L-5, L-6)	S-6290	Decalcommenias
* S-6181	" - S.B. Osc. coil (L-9, L-10)	S-5558	Monogram (RCA Victor)
* S-6183	" - S.W. Ant. coil (L-3, L-4)	S-4313	Dial Cord
* S-6184	" - S.W. Oac. coil (L-7, L-8)	* S-4646	Dial clamps
* S-6186	Condenser - Gang condenser (C-2, C-10, C-11, C-14, C-15)	* S-6193	Dial Scale
38403	Control - Volume Control (R-18)	* S-6180	Dial Plate Assy
S-5920	" - Tone control (R-19)(S-3)	* S-6248	Door Pulls
* S-6217	Rectifier - Selenium	* S-6239	Door Pulls
Resistor - 50 ohms + 10% & 5%		S-6679	Grille Cloth (Wal.-Mah.)
Resistor - 120 ohms 10% 1 W. (R-13)		S-6680	" " (blonde)
" - 220 " 20% $\frac{1}{2}$ W. (R-2)		S-5275	Knob Assy. (Mah.) (Tuning)
* S-6236	" - 900 " 10 W. (R-22)	S-4390	" " (Wal.) "
" - 1,000 " 10% 1 W. (R-20)		S-5276	" " (Blonde) "
" - 22,000 " 20% $\frac{1}{2}$ W. (R-5)		S-5277	" " (Mah.) (Range)
		S-4387	" " (Wal.) "
		S-5278	" " (Blonde) "
		S-5279	" " (Mah.) Vol. & Tone
		S-3870	" " (Wal.) "
		S-5280	" " (Blonde) "
		Lamps - dial & pilot lamps (3)	
		Pointer - dial pointer	

* INDICATES NEW STOCK ITEMS

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