



MODEL V-506



RCA VICTOR



RADIO PHONOGRAPH COMBINATION

Model V506

SERVICE DATA

— 1952 No. 9 —

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

ELECTRICAL AND MECHANICAL SPECIFICATIONS

TUNING RANGE

Standard Broadcast 540-1600 KC.
I.F. 455 KC.

TUBE COMPLEMENT

1. R.C.A. 12BE6 Converter
2. R.C.A. 12BA6 I.F.
3. R.C.A. 12AV6 Audio, Det.
4. R.C.A. 35L6GT Output
5. R.C.A. 35L6GT Output
6. R.C.A. 6C4 PH. Inverter
Rectifier Selenium
Tuning Ratio Drive 11.1 (5½ Turns)

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 6" x 9" P.M.
Voice Coil Impedance.....3.2 ohms at 400 cycles

POWER OUTPUT

Undistorted2.8 watts
Maximum4 watts

RECORD CHANGER124196 Series

Turntable Speed33⅓, 45 or 78 r.p.m.
Record capacityUp to 14-seven inch
or12-ten inch
or10-twelve inch
10-ten and twelve inch intermixed

CABINET DIMENSIONS

Height33½"
Width25¼"
Depth15½"



FIG. 1 DIAL SCALE V-506

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

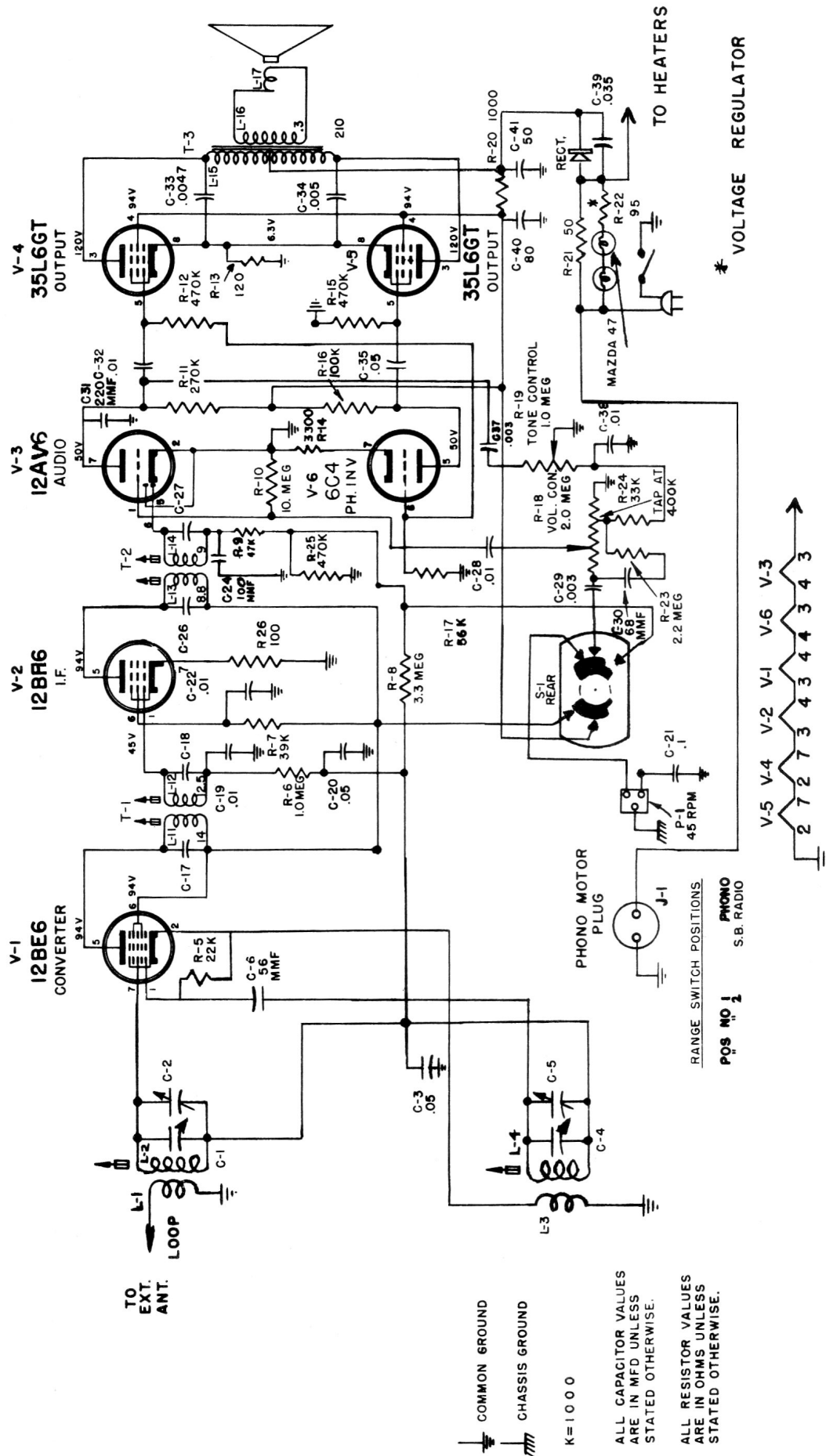


Fig. 2 Schematic Diagram

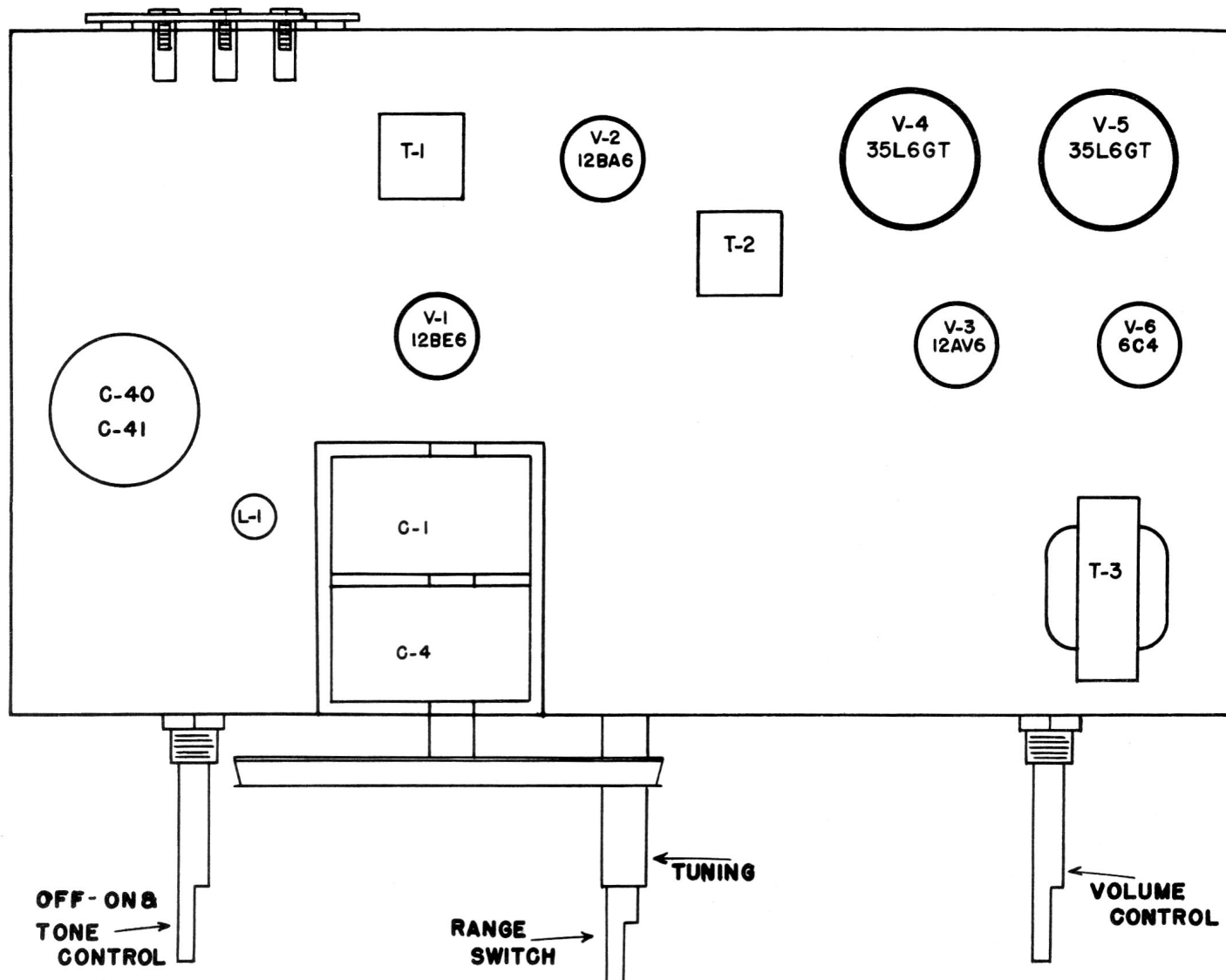


Fig. 3 Chassis Layout

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
S.B. Alignment	1	V-2, 12BA 6 Pin #1	GND Common	0.1 MFD	455KC	Radio	"HI" End	2nd I.F. Trans.	L-13, L-14	Max.Out.
	2	V-1, 12BE6 Pin #7	Same	Same	Same	Same	Same	1st. I.F.	L-11, L-12	Same
	3	Repeat steps 1 and 2.								
I.F. Alignment	4	"Ant" Lead	Chassis GND	10MMF	580 KC	Same	580 KC	S.B.-Osc,	C-5	Same
	5	Same	Same	Same	1500 KC	Same	1500 KC	S.B.-R.F.	C-2	Same
	6	Repeat Steps 4&5								

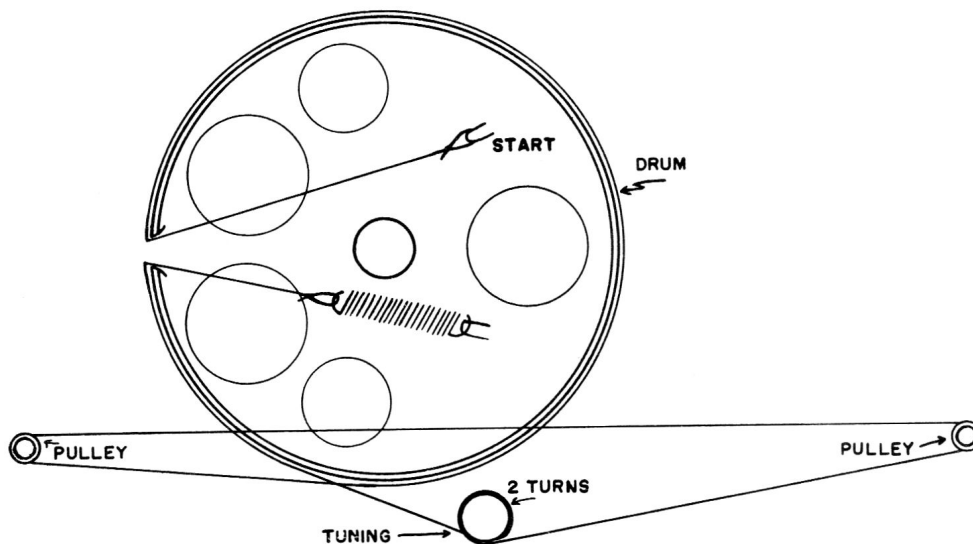


Fig. 4 Dial Cord Stringing

REPLACEMENT PARTS FOR MODEL V-506

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

SYMBOL	STOCK NO.	DESCRIPTION	SYMBOL	STOCK NO.	DESCRIPTION
C-1	*Pt. of S-6748	Gang Condenser - 14-452 mmf	R-16		Resistor - 100,000 ohms, 10%, $\frac{1}{2}$ watt
C-2	*Pt. of S-6748	Gang Trimmer Condenser - 2-17 mmf	R-17		Resistor - 56,000 ohms, 10%, $\frac{1}{2}$ watt
C-3		Capacitor, .05 mfd. 20%, 400V	R-18	S-6681	Resistor - Volume Control - 2.0 meg.
C-4	*Pt. of S-6748	Gang Condenser (Osc.) - 7-126 mmf	R-19	S-5920	Resistor - Tone Control - 1.0 meg.
C-5	*Pt. of S-6748	Trimmer Condenser 2-17 mmf	R-20		Resistor - 1000 ohms, 10%, 1 watt
C-6		Capacitor Ceramic, 56 mmf. 500V	R-21	S-6027	Resistor - 50 ohms, 3 watts
C-17		Capacitor in 1st. I.F.	R-22	S-5459	Resistor 95 ohms at 380, 13.5 ohms at 1040, 20%
C-18		Capacitor in 1st. I.F.	R-23		Resistor - 2.2 megohm, 10%, $\frac{1}{2}$ watt
C-19		Capacitor, .01 mfd. 10%, 200V.	R-24		Resistor - 33,000 ohms, 10%, $\frac{1}{2}$ watt
C-20		Capacitor, .05 mfd. 20%, 200V.	R-25		Resistor - 470,000 ohms, 10%, $\frac{1}{2}$ watt
C-21		Capacitor, .1 mfd. 10%, 400V.	R-26		Resistor - 100 ohms, 20%, $\frac{1}{2}$ watt
C-22		Capacitor, .01 mfd. 20%, 400V.	S-5382		Rectifier - Selenium
C-24		Capacitor, 100 mmf. 20%, 500V	S-1	*S-6746	Switch - Radio - Phono
C-26		Capacitor in 2nd I.F. Trans.	T-1	S-4949	Transformer - 1st I.F. Trans.
C-27		Capacitor in 2nd I.F. Trans.	T-2	73037	Transformer - 2nd I.F. Trans.
C-28		Capacitor, .01 mfd. 20% 200V.	T-3	*S-6745	Transformer - Output Transformer
C-29		Capacitor, .003 mfd. 20% 200V			SPEAKER ASSEMBLY
C-31	S-5940	Capacitor, 220 mmf. 20%, 350V			*S-6736 Speaker - 6" x 9" P.M.
C-32		Capacitor, .01 mfd. 20%, 400V			*S-6737 Cone & Voice Coil Assembly
C-33		Capacitor, .0047 mfd, 10%, 600V			MISCELLANEOUS ASSEMBLIES
C-34		Capacitor, .005 mfd. 10%, 600V	*S-6738		Cover - Cabinet Back Cover (Wal-Mah)
C-35		Capacitor, .05 mfd. 20% 400V	*S-6739		Cover - Cabinet Back Cover (Oak)
C-37		Capacitor, .0033 mfd. 10%, 400V	S-4367		Cord - Power Cord
C-38		Capacitor, .01 mfd. 10%, 400V	S-6507		Cord - Dial Cord Assembly
C-39		Capacitor, .035 mfd. 10%, 400V	*S-6756		Decals (Trademark)
C-40	S-5703	Capacitor - Electrolytic, 80 mfd. 150V			Decals (RCA Victor)
C-41	S-5703	Capacitor - Electrolytic, 50 mfd. 150V	*S-6741		Dial - Dial Plate Assembly (includes dial)
	*S-6748	Gang Condenser & Drum	*S-6742		Dial lamp & socket lead assembly
L-1 & L-2	S-6235	Coil - B.C. Ant. Coil	*S-6754		Escutcheon (Dial)
L-3 & L-4	S-6206	Coil - Osc. Coil	*S-6743		Grille Cloth (Oak)
			*S-6747		Grille Cloth (Mah-Wal)
R-5		Resistor - 22,000 ohms, 20%, $\frac{1}{2}$ watt	*S-6744		Knob - (Tuning)
R-6		Resistor - 1.0 megohm, 20%, $\frac{1}{2}$ watt	*S-6755		Knob (Range)
R-7		Resistor - 39,000 ohms.	S-4631		Knob (Volume & Tone)
R-8		Resistor - 3.3 megohm, 20%, $\frac{1}{2}$ watt	S-6554		Pointer - Station Selector
R-9		Resistor - 47,000 ohms, 10%, $\frac{1}{2}$ watt	Mazda #47		Lamp - Pilot Lamps (2)
R-10		Resistor - 10 megohm, 20%, $\frac{1}{2}$ watt	*S-6727		Insulating Cover
R-11		Resistor - 270,000 ohms, $\frac{1}{2}$ watt	36422		Socket - Phono Socket
R-12		Resistor - 470,000 ohms, 20%, $\frac{1}{2}$ watt	*S-6749		Hinge - Door Hinge Top (Wal-Mah)
R-13		Resistor - 120 ohms, 10%, 1 watt	*S-6750		Hinge - Door Hinge Bottom (Wal-Mah)
R-14		Resistor - 3300 ohms, 10%, $\frac{1}{2}$ watt	*S-6751		Hinge - Door Hinge Top (Oak)
R-15		Resistor, 470,000 ohms, 20%, $\frac{1}{2}$ watt	*S-6752		Hinge - Door Hinge Bottom
			*S-6753		Door Pull

* INDICATES NEW STOCK ITEMS.

Only items listed under stock numbers are available as Replacement Parts.

All parts subject to change or withdrawal without notice.