



MODEL V-566



RCA VICTOR



RADIO PHONOGRAPH COMBINATION

Model V-566 SERVICE DATA

— 1953 No. 4 —

HOME INSTRUMENT SERVICE DIVISION
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 12" P.M.

Voice Coil Impedance 3.2 ohms at 400 cycles

POWER OUTPUT

Undistorted 2.8 watts

Maximum 4 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

10-ten and twelve inch intermixed

CABINET DIMENSIONS

Height 29¾"

Width 26⅞"

Depth 17½"



FIG. 1 DIAL SCALE V-566

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

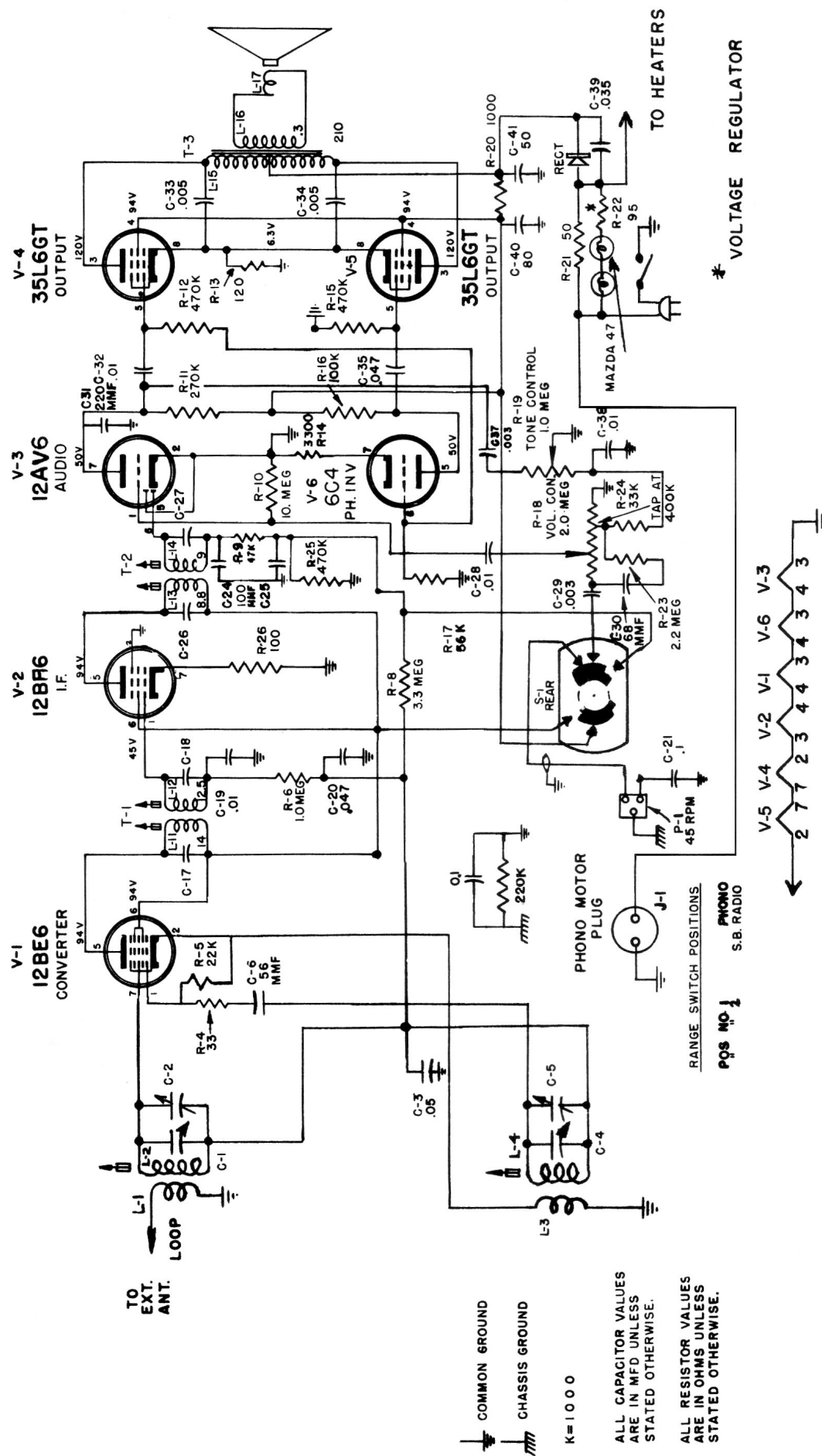


Fig. 2 Schematic Diagram

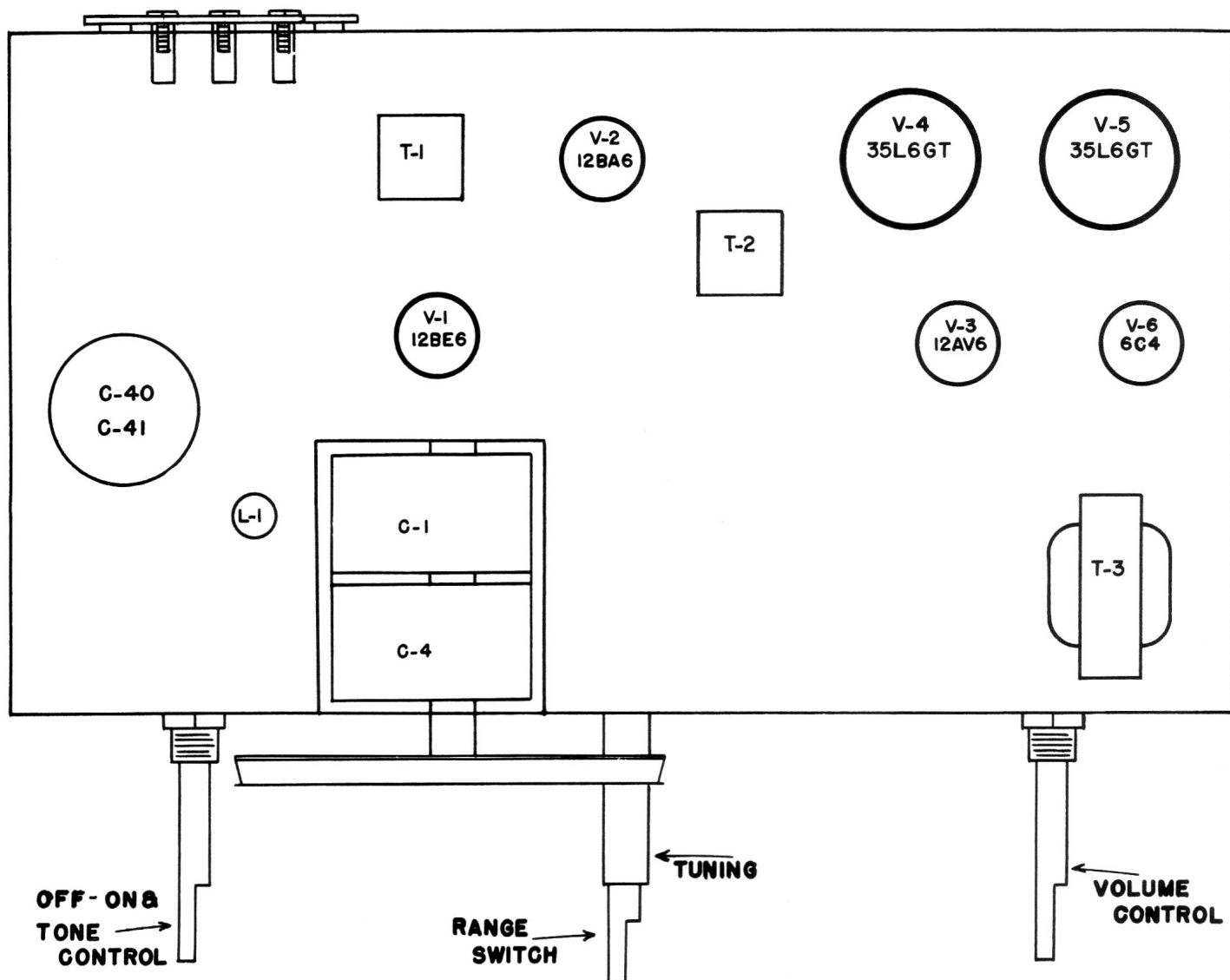


Fig. 3 Chassis Layout

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, 12BA6 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								

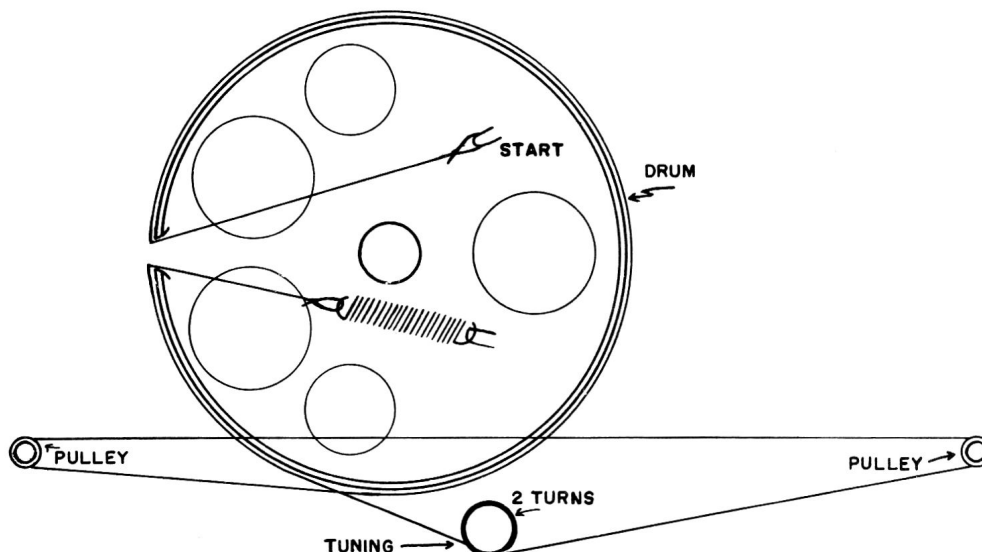


Fig. 4 Dial Cord Stringing

REPLACEMENT PARTS FOR MODEL V-566

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	S-4523	Capristor Ceramic, 56 mmf. 330 ohm (R-4)	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, .047 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-24		Capacitor, 100 mmf. 20%, 500V	S-5382		Rectifier - Selenium
C-26		Capacitor in 2nd I.F. Trans.	S-1	S-6746	Switch - Radio - Phono
C-27		Capacitor in 2nd I.F. Trans.	T-1	S-4949	Transformer - 1st I.F. Trans.
C-28		Capacitor, .01 mfd. 20% 200V.	T-2	73037	Transformer - 2nd I.F. Trans.
C-29		Capacitor, .003 mfd. 20% 200V	T-3	S-6745	Transformer - Output Transformer
C-31	S-5940	Capacitor, 220 mmf. 20%, 350V			SPEAKER ASSEMBLY
C-32		Capacitor, .01 mfd. 20%, 400V			
C-33		Capacitor, .005 mfd. 10%, 600V	*S-6981		Speaker - 12" P.M.
C-34		Capacitor, .005 mfd. 10%, 600V	*20,027		Cone & Voice Coil Assembly
C-35		Capacitor, .047 mfd. 20% 400V			MISCELLANEOUS ASSEMBLIES
C-37		Capacitor, .0033 mfd. 10%, 400V			
C-38		Capacitor, .01 mfd. 10%, 400V	*S-6820		Cover - Cabinet Back Cover (Wal-Mah)
C-39		Capacitor, .035 mfd. 10%, 400V	*S-6821		Cover - Cabinet Back Cover (Oak)
C-40	S-5703	Capacitor - Electrolytic, 80 mfd. 150V	*S-6836		Cord - Power Cord
C-41	S-5703	Capacitor - Electrolytic, 50 mfd. 150V	S-6507		Cord - Dial Cord Assembly
	S-6748	Gang Condenser & Drum	S-20015		Decals (Trademark)
L-1 & L-2	S-6235	Coil - B.C. Ant. Coil	S-6741		Decals (RCA Victor)
L-3 & L-4	S-6206	Coil - Osc. Coil			Dial - Dial Plate Assembly (includes dial)
R-5		Resistor - 22,000 ohms, 20%, $\frac{1}{2}$ watt	S-6742		Dial lamp & socket lead assembly
R-6		Resistor - 1.0 megohm, 20%, $\frac{1}{2}$ watt	S-6754		Escutcheon (Dial)
R-8		Resistor - 3.3 megohm, 20%, $\frac{1}{2}$ watt	S-6743		Grille Cloth (Oak)
R-9		Resistor - 47,000 ohms, 10%, $\frac{1}{2}$ watt	S-6747		Grille Cloth (Mah-Wal)
R-10		Resistor - 10 megohm, 20%, $\frac{1}{2}$ watt	S-6744		Knob - (Tuning)
R-11		Resistor - 270,000 ohms, $\frac{1}{2}$ watt	S-6755		Knob (Range)
R-12		Resistor - 470,000 ohms, 20%, $\frac{1}{2}$ watt	S-4631		Knob (Volume & Tone)
R-13		Resistor - 120 ohms, 10%, 1 watt			
R-14		Resistor - 3300 ohms, 10%, $\frac{1}{2}$ watt	S-6554		Pointer - Station Selector
R-15		Resistor, 470,000 ohms, 20%, $\frac{1}{2}$ watt	Mazda #47		Lamp - Pilot Lamps (2)
			S-6727		Insulating Cover
			36422		Socket - Phono Socket
			S-6241		Hinge - Door Hinge Top (Wal-Mah)
			S-6242		Hinge - Door Hinge Bottom (Wal-Mah)
			S-5872		Hinge - Door Hinge Top (Oak)
			S-5873		Hinge - Door Hinge Bottom (Oak)
			*S-20,014		Door Pull
			*S-20007		Slide - Slide Mechanism

* INDICATES NEW STOCK ITEMS.

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

All parts subject to change or withdrawal without notice.