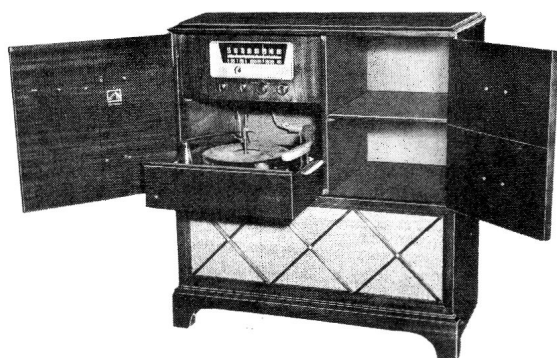




RCA VICTOR



MODEL V710

RADIO PHONOGRAPH COMBINATION

Model V710

SERVICE DATA

— 1953 No. 15 —

HOME INSTRUMENT SERVICE DIVISION
RCA VICTOR COMPANY, LTD
MONTREAL, QUE.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

TUNING RANGE

Standard Broadcast540-1600 KC.
Short Wave5.8-19. MC.
Intermediate Frequency455 KC.

TUBE COMPLEMENT

1. Type 6BA6R.F. Amp.
2. Type 6BE6Converter
3. Type 6BA6I.F. Amp.
4. Type 6AV6Det. A.V.C. Audio
5. Type 6C4Driver
6. Type 6V6GTOutput
7. Type 6V6GTOutput
8. Type 6C4Phase Inv.
9. Type 5V3GTRectifier
10. Type 6U5Magic Eye

Dial Lamp (2)Mazda 44
Pilot LampMazda 51
Tuning Drive Ratio16:1

POWER SUPPLY RATING

Rating A-105-125 Volts, 60 cycles, .8 amps.115 watts
Rating B-105-125 Volts, 25 cycles, .8 amps.115 watts

POWER OUTPUT

Undistorted8.5 watts
Maximum10.5 watts

LOUDSPEAKER

Type12" P.M.
Voice coil impedance3.2 ohms at 400 cycles

PHONOGRAPH (124196 Series)

Turntable Speed33 $\frac{1}{3}$, 45, & 78 R.P.M.
Record capacityUp to 14-seven inch
or12-ten inch
.....10-twelve inch
.....10-twelve and ten inch intermixed

CABINET DIMENSIONS

Height34"
Width32"
Depth16 $\frac{1}{2}$ "

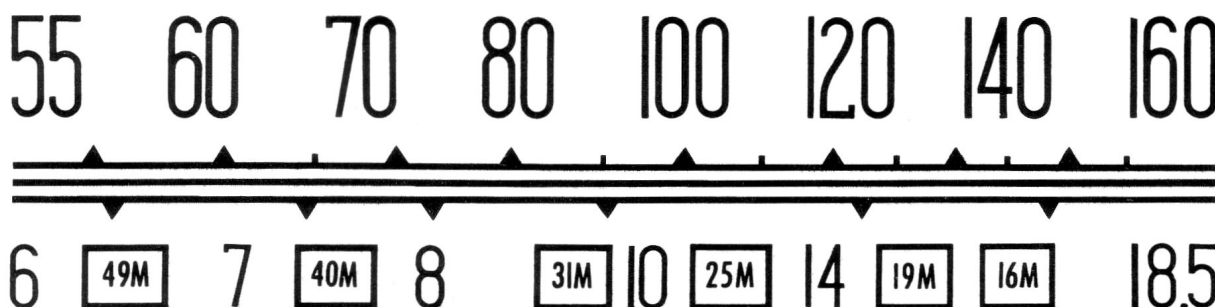


FIG. 1 DIAL SCALE DRAWING (Full Scale)

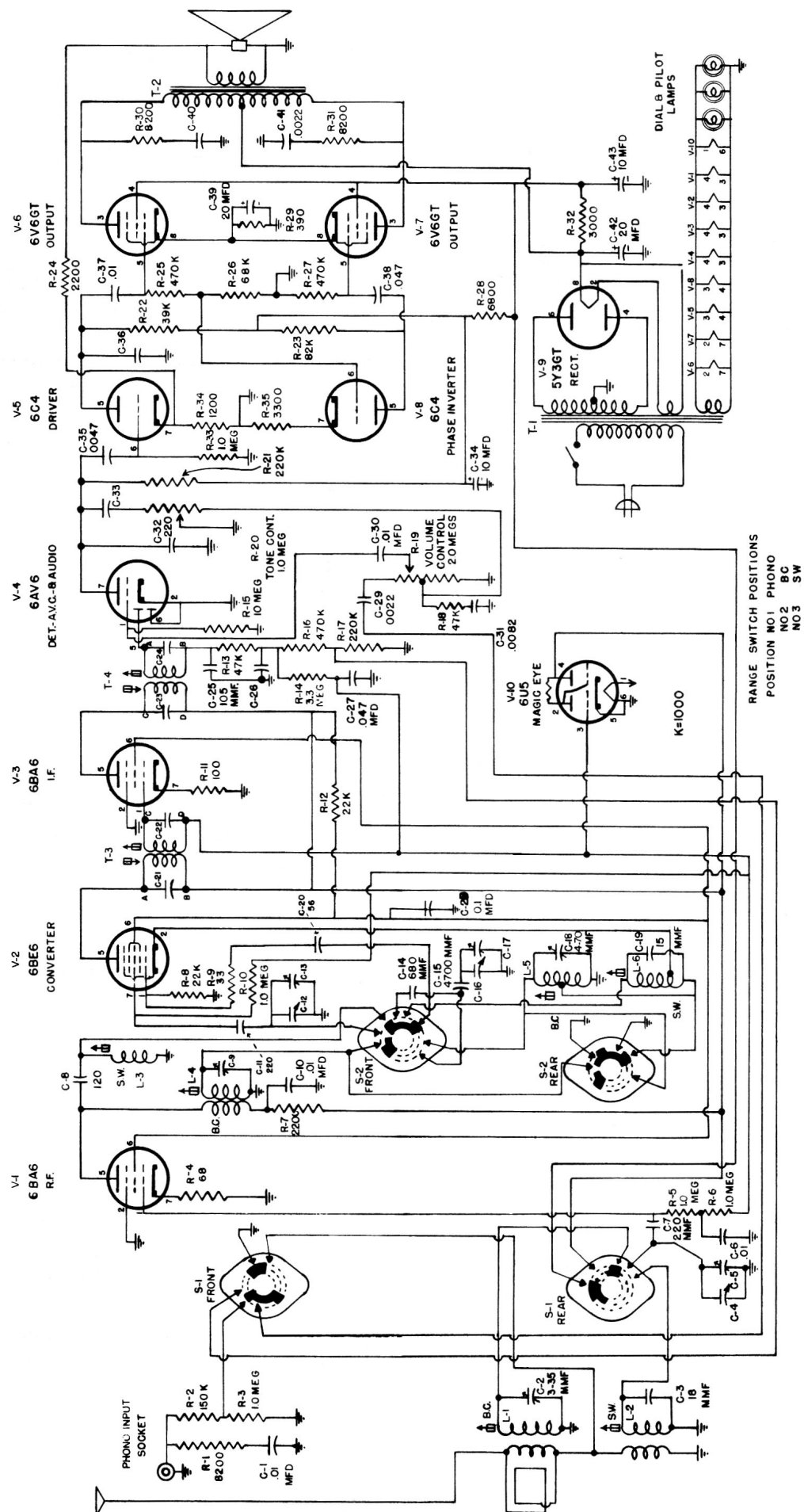


FIG. 2 SCHEMATIC DIAGRAM

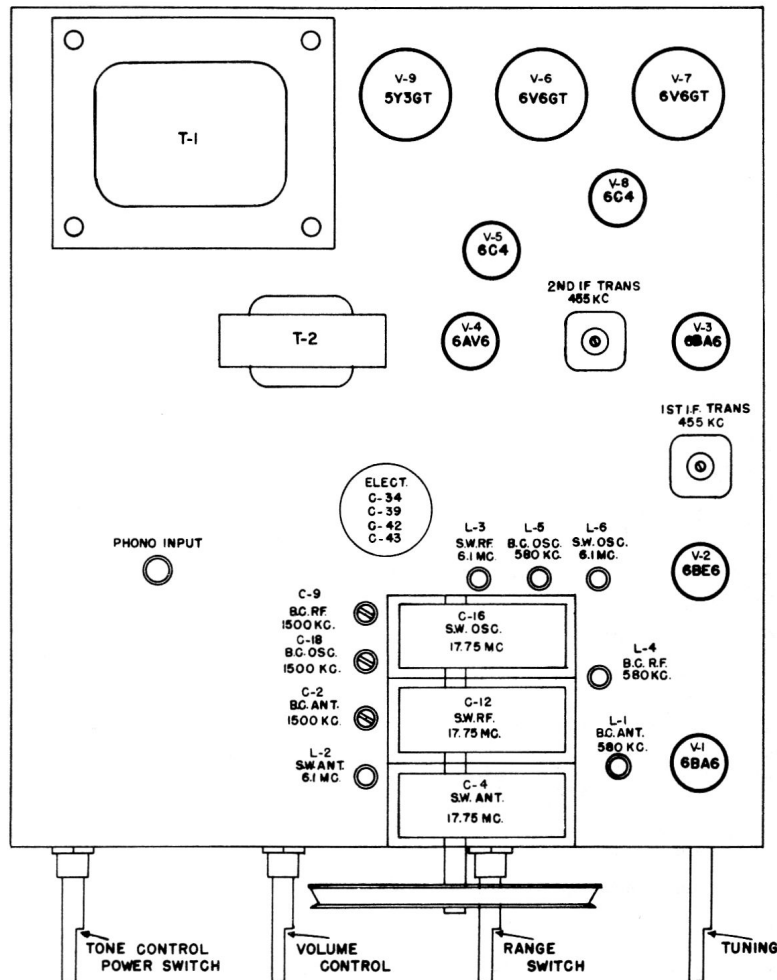


FIG. 3 CHASSIS ASSEMBLY

CRITICAL LEAD DRESS

Dress all B+ Leads from filter capacitor away from A.V.C. + Det.- audio tube V-4

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

[illegible]

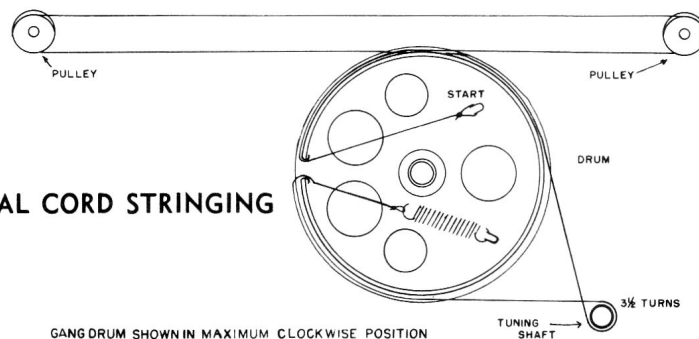


FIG. 4 DIAL CORD STRINGING

REPLACEMENT PARTS FOR MODEL V-710

SYMBOL	STOCK NO.	DESCRIPTION	SYMBOL	STOCK NO.	DESCRIPTION
		CHASSIS ASSEMBLY			CHASSIS ASSEMBLY (Cont'd)
C-1		Capacitor, .01 mfd, 20%, 400V	R-12		Resistor - 22000 ohms, 10%, 2 watt
C-2	S-5093	Capacitor, 3-35 mmf, 500V	R-13	S-4614	Capristor - 4700 ohms, 1/4 watt
C-3	36463	Capacitor, 18 mmf, 10%, 500V	R-14	S-4640	Resistor - 3.3 megohm, 20%, 1/2 watt
C-4		Capacitor - Gang - S.W. Ant.	R-15		Resistor - 10 megohm, 20%, 1/2 watt
C-5		Capacitor - Gang Trimmer - S.W. Ant.	R-16		Resistor - 470000 ohms, 10%, 1/2 watt
C-6		Capacitor, .01 mfd, 10%, 200V	R-17		Resistor - 220000 ohms, 10%, 1/2 watt
C-7		Capacitor, 220 mmf, 20%, 350V	R-18		Resistor - 47000 ohms, 10%, 1/2 watt
C-8	5546	Capacitor, 120 mmf, 10%	R-19	S-6688	Resistor - 2.0 megohm, Volume Control
C-9		Capacitor, 3-35 mmf, 500V	R-20	S-6689	Resistor - 1.0 megohm Tone Control
C-10		Capacitor, .01 mfd, 10%, 200V	R-21	S-5491	Resistor - 220K, 10%, 1/2 watt
C-11		Capacitor, 220 mmf, 20%, 350V	R-22		Resistor - 39000 ohms, 10%, 1/2 watt
C-12		Capacitor - Gang Condenser S.W.R.F.	R-23	S-6517	Resistor - 82000 ohms, 10%, 1/2 watt
C-13		Capacitor - Gang Condenser - Trimmer	R-24		Resistor - 2200 ohms, 10%, 1/2 watt
C-14		Capacitor 680 mmf, 10%, 1000V	R-25		Resistor - 470000 ohms, 20%, 1/2 watt
C-15		Capacitor 47000 mmf, 5%, 500V	R-26		Resistor - 68000 ohms, 20%, 1/2 watt
C-16		Capacitor - Gang Condenser, S.W.	R-27		Resistor - 470000 ohms, 20%, 1/2 watt
		Oscillator	R-28		Resistor - 6800 ohms, 20%, 1/2 watt
C-17		Capacitor - Gang Padder W. Oscillator	R-2		Resistor - 390 ohms, 10%, 2 watt
C-18		Capacitor, 4-70 mmf.	R-30	S-6517	Resistor - 8200 ohms, 10%, 1/2 watt
C-19		Capacitor, 15 mmf, 10% 500V	R-31	S-6517	Resistor - 8200 ohms, 10%, 1/2 watt
C-20	73867	Capristor, 56 mmf,	R-32	S-3521	Resistor - 8200 ohms, 10%, 1/2 watt
C-21		Capacitor in 1st I.F. Transformer	R-33		Resistor - 33000 ohms, - 5W.W.
C-22		Capacitor in 1st I.F. Transformer	R-34	S-5006	Resistor - 1.0 megohm, 10%, 1/2 watt
C-23		Capacitor in 2nd I.F. Transformer	R-35	S-6318	Resistor - 1200 megohm, 10%, 1/2 watt
C-24		Capacitor in 2nd I.F. Transformer			Resistor - 3300 ohms, 10%, 1/2 watt
C-25	S-4614	Capristor - 105 mmf	S-1,		
C-26	S-4614	Capristor - 105 mmf	S-2	S-6693	Switch - Range Switch
C-27		Capacitor - .047 mfd, 20%, 400V			
C-28		Capacitor - .1 mfd, 10%, 400V	T-1	S-6698	Transformer - Power Trans. - 100 cycle
C-29		Capacitor -.0022 mfd, 20%, 600V	T-1	S-6699	Transformer - Power Trans. - 25 cycle
C-30		Capacitor - .01 mfd,	T-2	S-6696	Transformer - Output Transformer
C-31		Capacitor -.0032 mfd,	T-3	S-4487	Transformer - 1st I.F. Transformer
C-32		Capacitor - 220 mmf, 20%, 350V	T-4	S-5086	Transformer - 2nd I.F. Transformer
C-33		Capacitor -.0047 mfd, 10%, 400V			
C-34	S-4545	Capacitor - electrolytic, 10 mfd, 400V.			
C-35		Capacitor, .0047 mfd, 10%, 400V			
C-36		Capacitor, 680 mmf, 10%, 300V			
C-37		Capacitor, .01 mfd,			
C-38		Capacitor, .047 mfd, 20%, 400V			
C-39	S-4545	Capacitor - electrolytic, 20 mfd, 400V			
C-40		Capacitor, .002 mfd, 10%, 1000V			
C-41		Capacitor, .002 mfd, 10%, 1000V			
C-42	S-4545	Capacitor - electrolytic, 20 mfd, 400V.			
C-43	S-4545	Capacitor - electrolytic, 10 mfd, 400V.			
	S-6263	Gang Condenser and Drum			
L-1	S-6692	Coil - B.C. Antenna			
L-2	S-6264	Coil - S.W. Antenna			
L-3	S-6265	Coil - S.W. R.F.			
L-4	S-6268	Coil - B.C. R.F.			
L-5	S-6267	Coil - B.C. Oscillator Coil			
L-6	S-6266	Coil - S.W. Oscillator Coil			
R-1		Resistor - 8200 ohms, 10%, 1/2 watt			
R-2		Resistor - 150000 ohms, 20%, 1/2 watt			
R-3		Resistor - 1.0 megohm, 10%, 1/2 watt			
R-4		Resistor - 68 ohms, 10%, 1/2 watt			
R-5		Resistor - 1.0 megohm, 10%, 1/2 watt			
R-6		Resistor - 1.0 megohm, 10%, 1/2 watt			
R-7		Resistor - 2200 ohms, 20%, 1/2 watt			
R-8		Resistor - 22000 ohms, 20%, 1/2 watt			
R-9	73867	Capristor - 33 ohms, 1/4 watt			
R-10		Resistor - 1.0 megohm, 10%, 1/2 watt			
R-11		Resistor - 100 ohms, 1/2 watt			

* Indicates new stock items.

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

All parts subject to change or withdrawal without notice.