



# RCA VICTOR



AC-DC RADIO RECEIVER

## LITTLE MASTER IV

—1950 No. 21—

GENERAL SERVICE DIVISION  
RCA VICTOR COMPANY LIMITED  
MONTREAL, QUE.

### Electrical and Mechanical Specifications

Tuning Range.....540-1600 kc

Intermediate Frequency.....455 kc

## Tube Complement

- (1) RCA 12BE6.....Converter  
(2) RCA 12BA6.....I-F Amplifier  
(3) RCA 12AV6.....Det.—A.V.C.—A-F Amp.  
(4) RCA 50L6GT.....Output  
(5) RCA 35W4.....Rectifier

## Power Supply Rating

115 volts a.c., 50 to 60 cycles or d.c.....30 watts

## Dial Lamp

type 44, 6-8 volts, .25 amp.

## Power Output

Undistorted.....1.25 watts

Maximum.....1.5 watts

## Loudspeaker

Size and type.....4 in. PM

Voice coil impedance.....3.2 ohms at 400 cycles

## Cabinet Dimensions

Height... 8<sup>5</sup>/<sub>8</sub>" Width... 12<sup>1</sup>/<sub>4</sub>" Depth... 6"

Weight.....6 lbs.

## REPLACEMENT PARTS FOR LITTLE MASTER IV

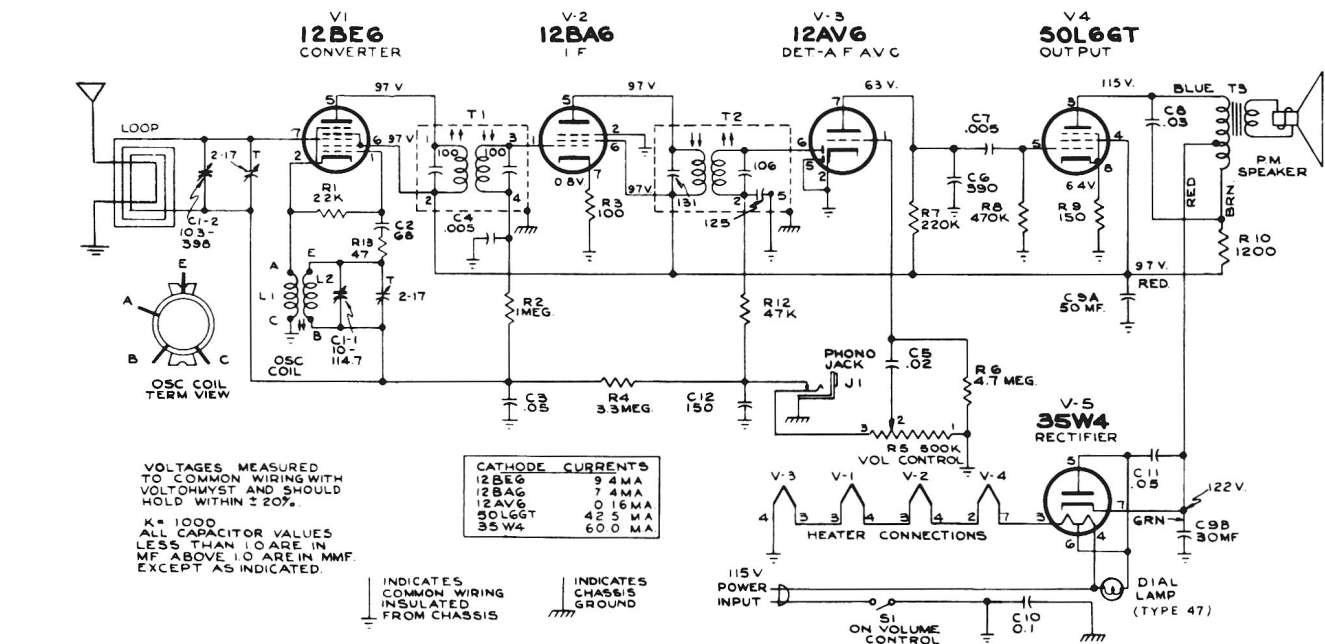
Insist on genuine factory tested parts, which are readily identified and may be purchased from authorized dealers.

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
<b>CHASSIS ASSEMBLY</b>		<b>MISCELLANEOUS ASSEMBLIES</b>	
S-4308	Capacitor-68 MMF $\pm 20\%$ 500V.(C2)	*S-5723	Back-Cabinet back cover less loop for (Maroon, Green)
"	" -150 " $\pm 20\%$ 500V.(C12)	*S-5996	Back-Cabinet back cover less loop for (Ivory)
"	" -390 " $\pm 10\%$ 500V.(C6)	*S-5724	" -Cabinet back cover with loop for (Maroon, Green)
"	" -.005 Mfd. $\pm 20\%$ 200V.(C4,C7)	*S-5997	" -Cabinet back cover with loop for (Ivory Cabinet)
70613	" -.02 Mfd. $\pm 20\%$ 200V.(C5)	*S-5998	Bracket-Phono socket and bracket
"	" -.03 " $\pm 10\%$ 400V.(C8)	*S-5716	Cabinet-Maroon
"	" -.05 " $\pm 20\%$ 400V.(C3,C11)	*S-5999	" -Ivory
"	" -.1 Mfd. $\pm 10\%$ 400V.(C10)	"	" -Green
*S-5717	" -Electrolytic 30-50 Mfd. $\pm 10\%$ 150V.(C9A,C9B)	*S-5998	Bracket-Phono socket and bracket
*S-5718	" -Variable tuning(C1-1,C1-2)	*S-5716	Cabinet-Maroon
*S-5726	Coil-Oscillator coil (L1,L2)	*S-5999	" -Ivory
*S-5719	Control-Vol.Control & Sw.	"	" -Green
S-3467	Cord-Power Cord	*S-6000	Decal-Phono decal
"	Resistor-47 ohms $\pm 20\%$ $\frac{1}{2}$ W.(R13)	S-5661	Emblem -RCA Victor
"	" -100 " " " (R3)	*S-5661	Foot-Cabinet foot
"	" -150 " " " (R9)	*S-6003	Grille-Speaker grille
"	" -1200 " $\pm 10\%$ 1W.(R10)	*S-5659	Jewel-Pilot lamp jewel
"	" -22,000 $\pm 20\%$ $\frac{1}{2}$ W.(R1)	*S-5727	Knob-Tuning maroon
"	" -47,000 $\pm 20\%$ $\frac{1}{2}$ W.(R12)	*S-5728	" " ivory
"	" -220,000 $\pm 20\%$ $\frac{1}{2}$ W.(R7)	*S-5728	" Volume-maroon
"	" -470,000 $\pm 20\%$ $\frac{1}{2}$ W.(R8)	*S-5728	" Volume-ivory
"	" -1 Meg. $\pm 20\%$ $\frac{1}{2}$ W.(R2)	74336	Nut-Spring nut to fasten decorative strip
"	" -3.3 Meg. " " " (R4)	74340	Nut-Spread nut to fasten foot
"	" -4.7 " " " " (R6)	*S-5728	Screen-Grille screen for maroon, green Cabinet
"	Lamp-Mazda No.44	*S-6005	Screen-Grille screen for ivory cabinet
*S-5722	Loop-Loop Coil only	74734	Spring-Retaining spring for knob
*S-5720	Transformer-1st IF transformer (T1)	74697	Socket-Pilot lamp socket
*S-5721	" -2nd IF " (T2)	*S-5490	Strip-Decorative strip (gold) for cabinet top
*S-5729	" -Output " (T3)	*S-5491	Strip-Decorative strip (gold for cabinet front bottom
<b>SPEAKER ASSEMBLY</b>			
*74165	Speaker-Complete 4" PM		
*S-5575	Speaker Cone		

\*Indicates new stock items

Only items listed under Stock Numbers are available as Replacement Parts.

All parts subject to change or withdrawal without notice.



### Schematic Circuit Diagram

## Lead Dress

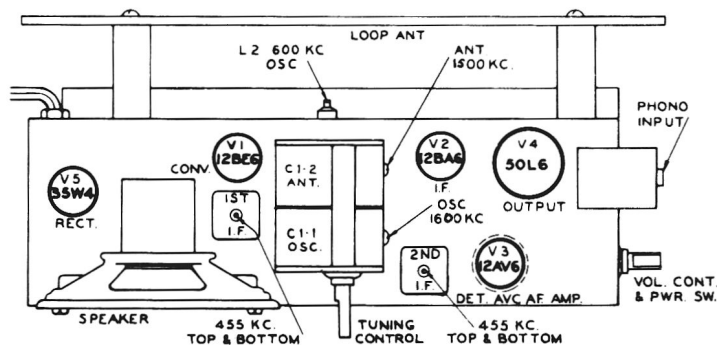
1. Dress all capacitors down against chassis.
2. Connect outside foil of all capacitors as indicated in schematic diagram.
3. Locate C9 in its mounting clip so that it butts against chassis
4. Dress power cord leads away from R11.

### Attachment of Record Player

The audio output cable of the record player should be terminated with a pin plug.

Plug the cable into the receptacle which is accessible through the side of the cabinet.

Insertion of the cable plug into the receptacle removes radio signal from the volume control. The record player cable must be removed from the receptacle to permit radio operation.



### Tube and Trimmer Locations

## Alignment Procedure

Before aligning the receiver, set the gang condenser for maximum capacity and then set the dial knob opposite 55 on 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.

**NOTE:** If the test-oscillator is ac/dc operated, it may be necessary to use an isolation transformer (117 v./117 v. for the receiver during alignment).

## Alignment Chart

Order of Alignment		TEST OSCILLATOR				RECEIVER				
		Connect "HI" Side to	Connect "Low" Side to	Dummy Antenna	Frequency Setting	Range Selector	Receiver Dial Setting	Circuit to Adjust	Adjustment Symbols	Notes
I.F. Alignment	1	V2 - 12BA6 Pin #1	Ground	.1 Mfd.	455 KC		Low Frequency (end)	2nd I.F. Trans.	Top & Bottom	Max. Out
	2	V1 - 12BE6 Pin #7	"	"	"		" "	1st I.F. Trans.	"	" "
R.F. Alignment	3	Radiate Signal	"		600 KC		600 KC	Oscillator	L2 Core	" "
	4	"	"		1600 KC		1600 KC	"	Trimmer	" "
	5	"	"		1500 KC		1500 KC	Ant.	"	" "
	6	REPEAT STEPS 3, 4 & 5.								