



RCA VICTOR



LITTLE MASTER-"A"

Five-Tube, Single-Band, AC-DC Superheterodyne Receiver

TECHNICAL INFORMATION AND SERVICE DATA

1948 No. 4

GENERAL SERVICE DIVISION

RCA VICTOR COMPANY LTD.



Electrical and Mechanical Specifications

FREQUENCY RANGE -----535-1630 kc

Intermediate Frequency -----455 kc

TUBE COMPLEMENT

- (1) Type 12SA7 -----1st-Detector-Oscillator
 (2) Type 12SK7 -----I-F Amplifier
 (3) Type 12SQ7 -----2nd-Detector, 1st A-F, and A.V.C.
 (4) Type 50L6GT -----Power Output
 (5) Type 35Z5GT -----Rectifier
 Dial Lamp (1) -----Mazda 51, 6-8 volts, .2 amp.

POWER SUPPLY RATINGS

- A-C Rating-----105-125 volts, 25-60 cycles, 30 watts
 D-C Rating-----105-125 volts, direct current, 30 watts

POWER OUTPUT

- Undistorted ----- .75 watts
 Maximum ----- 1.5 watts

LOUDSPEAKER

- Type -----4" x 6" Elliptical P.M.
 Impedance (V.C.) -----3.4 ohms at 400 cycles

REPLACEMENT PARTS FOR LITTLE MASTER-"A"

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

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
RECEIVER ASSEMBLIES		SPEAKER ASSEMBLIES	
12723	Capacitor-56 MMF (C5).....	S-4204	Cone-Cone & Voice Coil Assy.(L10).
12952	Capacitor-330 MMFD(C16).....	S-3476	Speaker.....
33640	Capacitor-.005 MFD(C17).....	S-3477	Output Transformer (L8,L9).....
S-3644	Capacitor-.0025 MFD.(C15).....	MISCELLANEOUS ASSEMBLIES	
4937	Capacitor-.01 MFD (C13).....	S-4314	Cabinet-Rose.....
36248	Capacitor-.02 MFD (C18,C14).....	S-4315	Cabinet-Green.....
43898	Capacitor-.05 MFD (C8,C19).....	S-3586	Cabinet-Ivory.....
4839	Capacitor-.1 MFD (C22).....	S-3472	Cabinet-Brown.....
70408	Capacitor-Electrolytic(C20,C21) 30-50 MFD.....	S-3413	Cord-Drive cord (Universal).....
S-3480	Coil-Oscillator coil (L2,L3).....	S-4318	Cloth Grille cloth(Wood Cabinet).
73047	Condenser-Variable & Drum(C1,C2,C3,C4)	70476	Dial-Dial scale.....
70469	Indicator-Station selector pointer...	S-4218	Decal-(Wood Cabinet).....
30936	Resistor-120 ohms 1 watt (R6).....	S-4316	Knob-Rose.....
6134	Resistor-1200 ohms 1 watt (R8).....	S-4317	Knob-Green.....
30492	Resistor-22,000 ohms 1/4 watt (R1)...	S-3871	Knob-Ivory.....
14583	Resistor-220,000 ohms 1/2 watt(R4,R9)	S-3870	Knob-Brown.....
30648	Resistor-470,000 ohms 1/4 watt(R7)...	S-3883	Knob-Mahogany.....
12928	Resistor-3.3 Megohms 1/4 watt (R2)...	S-3699	Knob-Maple.....
30271	Resistor-4.7 Megohms 1/4 watt (R5)...	S-4266	Loop-Antenna loop and cover (L1).
70467	Shaft-Drive Shaft.....	S-4301	Loop-Ant.loop & cover(Wood Model) (L1).
37605	Socket-Tube Socket.....	11765	Lamp-Pilot lamp.....
34449	Socket-Pilot lamp, socket & lead.....	30900	Spring-Knob retaining spring (Pkg.5) ..
70390	Spring-Drive cord tension (Pkg.2)....	33726	Washer-"C" washer for drive shaft (Pkg.5) ..
S-3478	Transformer-1st I.F.(L4,L5,C6,C7)....		
S-3479	Transformer-2nd I.F.(L6,L7,C9,C10, C11,C12) ..		
70322	Volume Control-500,000 Ohms (R3,S1) ..		

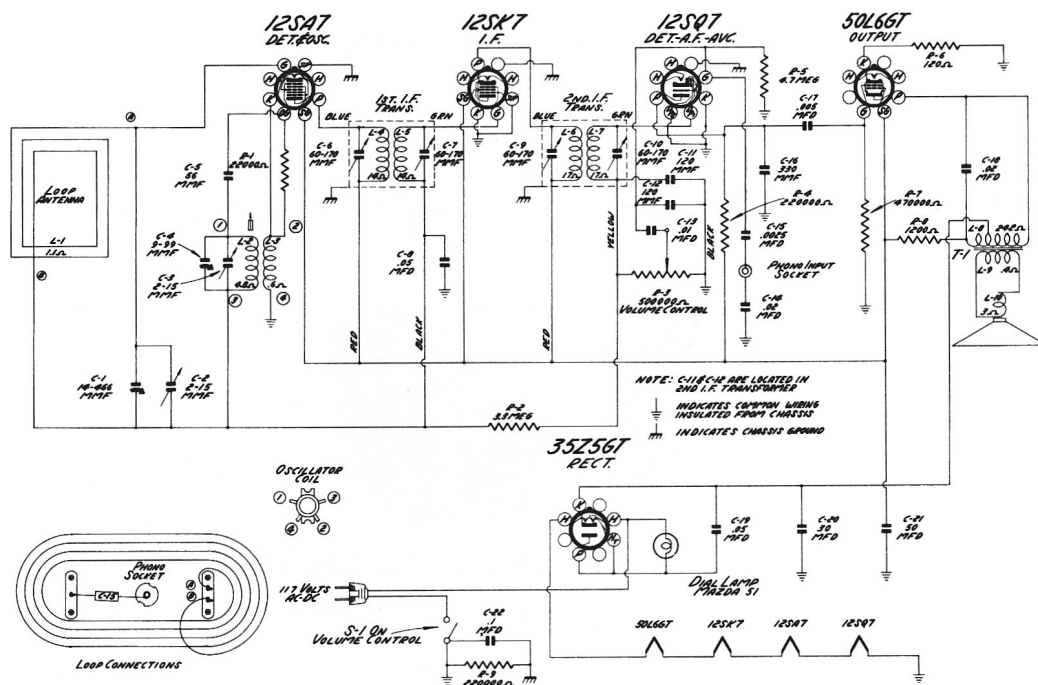
All parts and prices subject to change or withdrawal without notice.

Little Master-"A"

GENERAL DESCRIPTION

The RCA Victor Little Master-"A" is a five-tube, single band, AC/DC Superheterodyne chassis housed in a plastic cabinet of pleasing design. Features include a stable oscillator circuit, efficient I-F. transformers, built-in loop

antenna, Phono Socket for the connection of a Record Player; Beam power output tube; a well-filtered power supply and a 4 inch by 6 inch elliptical speaker capable of handling the undistorted output of the receiver.



Schematic Circuit Diagram

CAUTION

REMOVE POWER PLUG FROM OUTLET BEFORE SERVICING THIS RECEIVER. AVOID CONTACT OF CHASSIS OR COMPONENT PARTS TO EXTERNAL GROUND.

CRITICAL LEAD DRESS (Make lead dress before alignment)

- Oscillator coil leads must be dressed down to chassis away from other circuit wiring.
- Audio coupling condenser to volume control must be dressed away from the AC line cord to the power switch.

RADIOTRON SOCKET VOLTAGES

Type	Plate	Screen Grid	Cathode	Fil.
12SA7	95V	95V	—	12V
12SK7	95V	95V	—	12V
12SQ7	55V	—	—	12V
50L6GT	118V	90V	5.8V	50V
35Z5GT	117V	—	130V	35V

NOTE:—All voltages are measured to common wiring insulated from chassis with a line voltage of 117 volts.

ALIGNMENT PROCEDURE

OUTPUT METER ALIGNMENT.—Connect the meter across the voice coil, and turn the receiver volume control to maximum.

TEST OSCILLATOR.—Connect the low side of the test oscillator to the receiver chassis, through a .01 mfd. and keep the output as low as possible to avoid a-v-c action.

PRE-SETTING DIAL.—With the gang condenser in full mesh, the pointer should be adjusted so that it lines up with the first marker on the left of the dial plate.

ANTENNA.—The set is equipped with a built-in loop antenna.

POWER SUPPLY POLARITY.—For operation on DC, the power plug must be inserted in the outlet for correct polarity. If the set does not operate, reverse the plug. On AC, reversal of the plug may reduce hum.

Steps	Connect high side of test osc.	Tune test osc. to	Turn radio dial to	Adjust the following for max. peak output
1	12SK7 Grid in series with .01 Mfd. capacitor	455 kc	Quiet point at 600 kc end of the dial	C-9 (2nd IF) C-10
2	12SA7 Grid in series with .01 capacitor			C-6 (1st IF) C-7
3	Use 220 mmf Dummy Antenna	1,630 kc	Full clockwise (out of mesh)	C-3 (Osc.) Trimmer
4		1,500 kc	Resonance on 1,500 kc signal	C-2 (Ant) Trimmer
5		600 kc	600 kc	Rock Gang and Adjust. L2 For Maximum Output
6				Repeat 3—4—5