



## R.C.A. Victor Co., Inc.

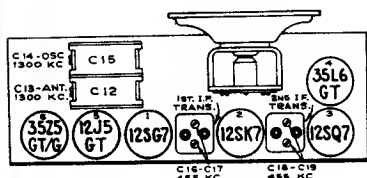
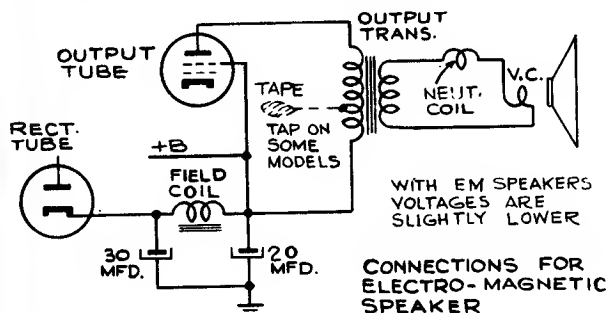
R.C.A. Victor Co., Inc.			
	Model: 56X3	Chassis:	Year: Pre 1949
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
Resources			
Beitmans 1946 98			
Riders 15 (XV) RCA 15-26			
Riders 15 (XV) RCA 15-31			
Riders 18 (XVIII) CHANGES 18-8			

# MANUAL OF 1946 MOST POPULAR SERVICE DIAGRAMS

## RCA VICTOR

### 56X, 56X2, 56X3

Chassis No. RC-1011—Mfr. No. 274



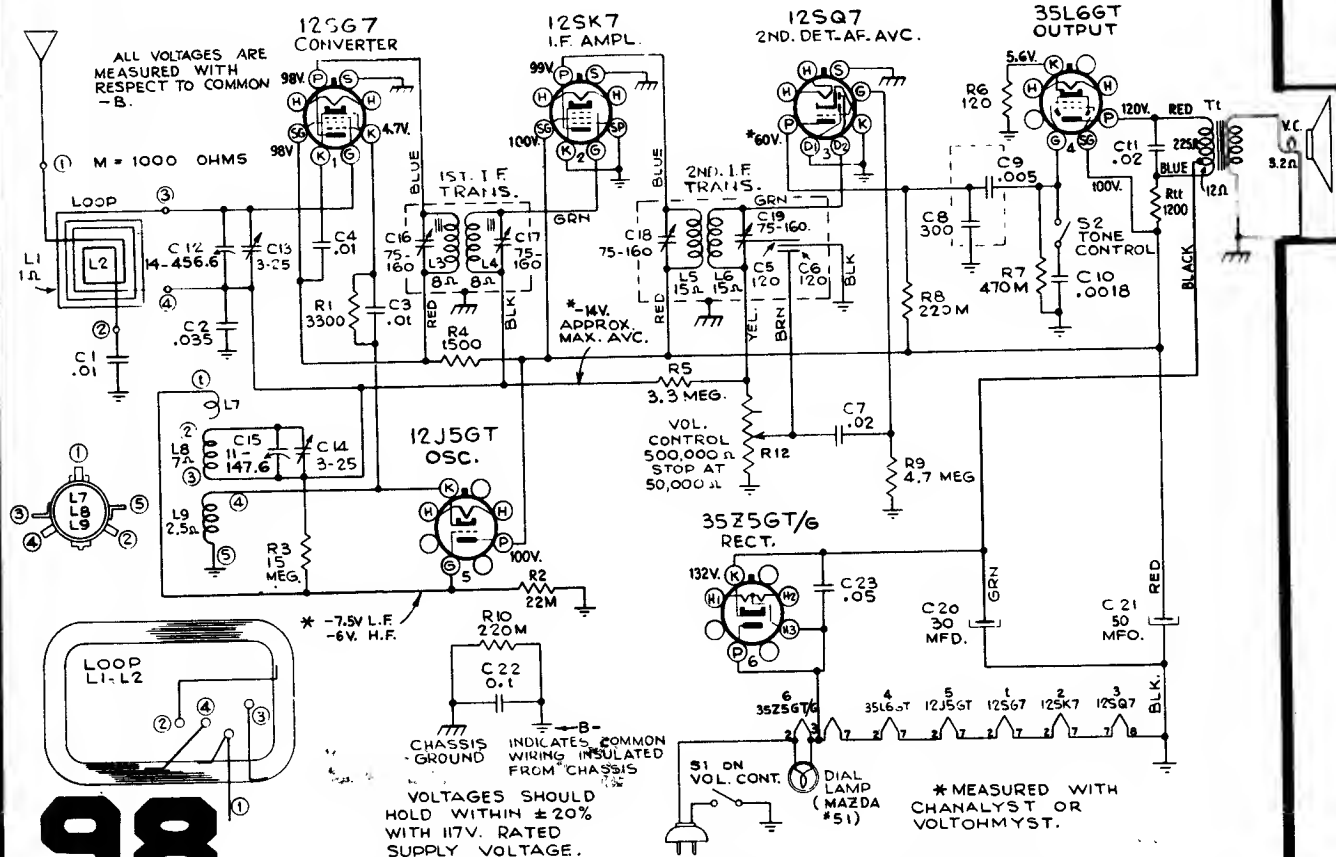
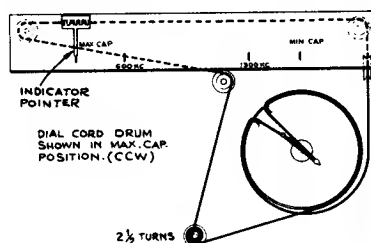
Radiola Models 61-1, 61-2, 61-3 are similar to models illustrated.

**Test Oscillator.**—Connect high side of test oscillator as shown in chart. Connect low side through a .01 mf capacitor to common "B." Keep the output signal as low as possible to avoid AVC action.

**Output Meter.**—Connect leads between speaker voice coil and chassis. Turn volume control to maximum clockwise, tone control to maximum highs (clockwise).

**Dial Pointer Adjustment.**—Rotate tuning condenser fully counter-clockwise (plates closed). Adjust indicator pointer to left (max. Cap.) mark on dial back plate.

Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output
1	Stator of C-12 in series with .01 mfd.	455 kc	Quiet-point 1,800 kc end of dial	C18 and C19 2nd I-F transformer
2				C18 and C17 1st I-F transformer
3	Ant. lead in series with 200 mmfd.	1,300 kc	1,300 kc	C14 (osc.) C13 (ant.)
4	Repeat step 3.			



# 98

COMPILED BY M. N. BEITMAN, SUPREME PUBLICATIONS

Model 55F and CV-42 Electriifier		STOCK No.	
STOCK No.	DESCRIPTION	STOCK No.	DESCRIPTION
	<b>CHASSIS ASSEMBLIES</b>		<b>SPRAKER ASSEMBLIES</b>
	<b>RC 1004E</b>		<b>Stamped 92515-1K</b>
38675	Arm—"On-Off" indicator arm	70581	Speaker—5" P.M. speaker less output transformer
39604	Capacitor—Mica, 10 mfm. (C40)	70991	Transformer—Output transformer
38672	Capacitor—Mica trimmer, 1 section 120 mfm. 1 section 45-80 mfm. (C21, C22)		<b>SPRAKER ASSEMBLIES</b>
39640	Capacitor—Mica, 330 mfm. (C6)		<b>Stamped 92515-1P</b>
70707	Capacitor—Paper, .005 mfd., 1200 volts (C7, C8, C19)	70581	Speaker—5" P.M. speaker less output transformer
70712	Capacitor—Paper, .0018 mfd., 700 volts (C5)	70992	Transformer—Output transformer
70615	Capacitor—Paper, .05 mfd., 200 volts (C2)		<b>SPRAKER ASSEMBLIES</b>
70617	Capacitor—Paper, 0.1 mfd., 400 volts (C1)		<b>Stamped 92515-1F</b>
38718	Capacitor—Electrolytic, 10 mfd., 10 volts (C18, C23)	70581	Speaker—5" P.M. speaker less output transformer
38705	Capacitor—Electrolytic, 25 mfd., 90 volts (C28)	70993	Transformer—Output transformer
38344	Coil—Antenna coil (L3, L4)		<b>NOTE: If stamping on speaker in instrument does not agree with above speaker number, order replacement parts by referring to model number of instrument, number stamped on speaker and full description of part required.</b>
38345	Coil—Oscillator coil (L3, L4)		<b>MISCELLANEOUS ASSEMBLIES</b>
70378	Coil—Wave trap (L10, L11)	X1606	Board—Baffle board and grille cloth
38500	Condenser—Variable tuning condenser (C9, C10, C11, C17)	36462	Clamp—Dial clamp
38080	Control—Volume control and power switch (R6, S1, S2)	35915	Escutcheon—Dial escutcheon less dial
34662	Cord—Drive cord (approx. 50' overall length)	34686	Knob—Power switch knob
38827	Dial—Dial scale	36722	Knob—Tuning knob
35069	Fastener—Push fastener for dial plate	71281	Knob—Volume control knob
36090	Indicator—Station selector indicator	30000	Spring—Retaining spring for knob
38350	Lever—Indicator arm actuating lever	38679	Window—Glass window for dial scale
38673	Plate—Dial back plate complete with drive cord pulleys and indicator arm		<b>CV-42 ELECTRIIFIER</b>
30550	Plug—4 prong male plug for battery cable	38702	Ballast—Plug-in ballast tube resistor
32289	Pulley—Drive cord pulley	38701	Capacitor—Electrolytic, comprising 1 section of 50 mfd., 150 volts, 1 section of 30 mfd., 150 volts, and 1 section of 250 mfd., 10 volts
39030	Resistor—22 ohms, 1 watt (R17)	30847	Capacitor—.05 mfd., 400 volts
39048	Resistor—390 ohms, $\frac{1}{2}$ watt (R10, R11)	28451	Fastener—Push fastener for bottom cover
12262	Resistor—680 ohms, $\frac{1}{2}$ watt (R14)	28452	Plate—Bakelite mounting plate for electrolytic capacitor
30734	Resistor—3400 ohms, $\frac{1}{2}$ watt (R12)	38702	Resistor—Ballast tube resistor
30735	Resistor—3700 ohms, $\frac{1}{2}$ watt (R5)	70379	Transformer—First L.F. transformer (L3, L4, C12, C13)
14138	Resistor—68,000 ohms, $\frac{1}{2}$ watt (R3)	31027	Socket—Power output socket
14583	Resistor—220,000 ohms, $\frac{1}{2}$ watt (R2)	31251	Socket—Tube or ballast resistor socket
30052	Resistor—1 megohm, $\frac{1}{2}$ watt (R6)	38702	Tube—Ballast tube resistor
30049	Resistor—2.2 megohm, $\frac{1}{2}$ watt (R9)		
12928	Resistor—3.3 megohm, $\frac{1}{2}$ watt (R1, R13)		
30992	Resistor—10 megohm, $\frac{1}{2}$ watt (R4, R7)		
30697	Shaft—Tuning knob shaft		
70377	Shield—Tube shield for IH5GT/G and IH5GT/G tubes		
31251	Socket—Tube socket		
31418	Spring—Drive cord tension spring		
38430	Spring—Indicator arm return spring		
38670	Switch—"Battery-Electric" power switch (S3, S4)		
70379	Transformer—First L.F. transformer (L3, L4, C12, C13)		
30847	Transformer—Second L.F. transformer (L7, L8, C3, C4, C14, C15)		
33726	Weather—"C" for tuning knob shaft		

Voice coil impedance at 400 cycles.....3.4 ohms

"A" 1½ volt section.....	3 ampere
"B" 90 volt section.....	10 m.a. (Switch in "Battery Saver Position") 14 m.a. (Maximum Output Position)

With CV-42 Electrifier Unit (switch in "Electric" position) . . . . 22.5 watts  
Cabinet Dimensions (Inches) . . . . . 18 x 9 1/4 x 10 3/4

Models 56X, 56X2, 56X3

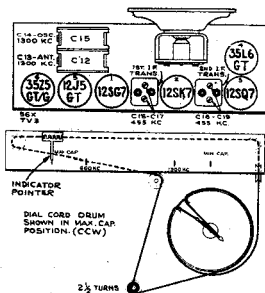
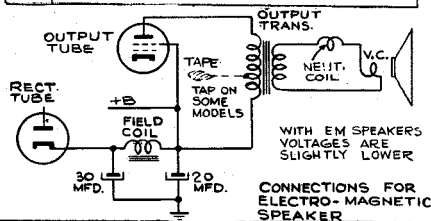
Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output
1	Stator of C-12 in series with .01 mfd.	455 kc	Quiet-point 1,600 kc end of dial	C18 and C19 2nd I-F transformer
2				C16 and C17 1st I-F transformer
3	Ant. lead in series with 200 mmfd.	1,300 kc	1,300 kc	C14 (osc.) C13 (ant.)
4	Repeat step 3.			

**Test Oscillator.**—Connect high side of test oscillator as shown in chart. Connect low side through a .01 mf capacitor to common.

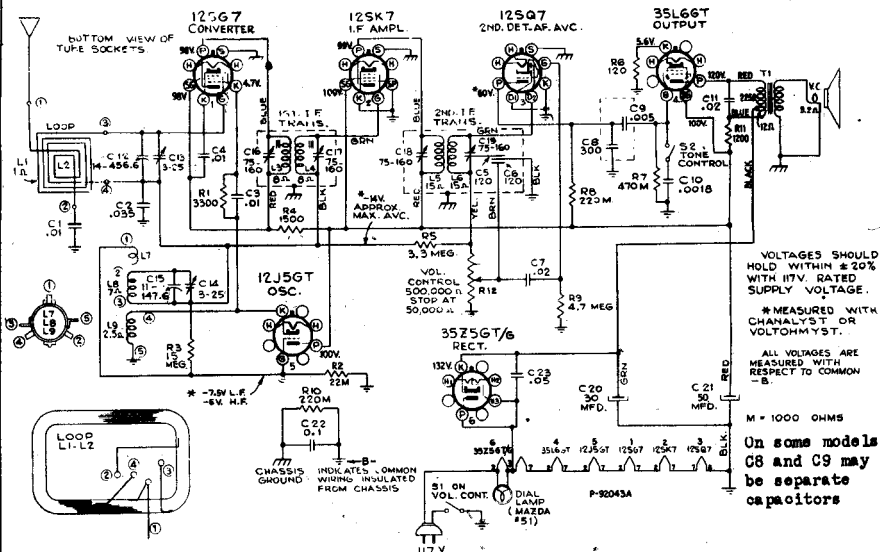
**"B."** Keep the output signal as low as possible to avoid AVC action.

**Output Meter.**--Connect leads between speaker voice coil and chassis. Turn volume control to maximum clockwise, tone control to maximum highs (clockwise).

**Dial Pointer Adjustment.**—Rotate tuning condenser fully counter-clockwise (plates closed). Rotate indicator pointer to left (max. Cap.) mark on dial back plate.



RCA MFG. CO.



STOCK No.	DESCRIPTION	STOCK No.	DESCRIPTION
<b>CHASSIS ASSEMBLIES</b>			
<b>RC 1011</b>			
37350	Capacitor—Comprising 1 section of .0003 mid. and 1 section of .005 mid. (C-8, C-9)	34449	Socket—Lamp socket
70712	Capacitor—Paper .018 mid., 800 volts (C-10)	37603	Socket—Tube socket, moulded
70853	Capacitor—Paper .01 mid., 800 volts (C-1, C-3, C-4)	31418	Spring—Drive cord tension spring
70711	Capacitor—Paper .02 mid., 700 volts (C-7, C-11)	36228	Switch—Tone switch (S-2)
70855	Capacitor—Paper .03 mid., 500 volts (C-5)	70412	Transformer—First I.F. transformer (L-3, L-4, C-16, C-17)
70815	Capacitor—Paper .05 mid., 400 volts (C-23)	70412	Transformer—Second I.F. transformer (L-5, L-6, C-5, C-8, C-18, C-19)
70817	Capacitor—Paper 0.1 mid., 400 volts (C-22)	38800	Transformer—Output transformer (T-1)
35132	Capacitor—Electrolytic, comprising 1 section of 30 mid., 150 volts, and 1 section of 50 mid., 150 volts (C-20, C-21)	33725	Washer—“C” washer for tuning knob shaft
29834	Coil—Oscillator coil (L-7, L-8, L-9)	<b>SPEAKER ASSEMBLY</b>	
36228	Condenser—Variable tuning condenser (C-12, C-13, C-14, C-15)	<b>95310-1</b>	
36242	Control—Volume control and power switch (R-12, S-1)	70413	Speaker—5-inch PM speaker, complete
28234	Cord—Drive cord (approx. 49" long)	<b>NOTE:</b> If stamping on speaker in instrument does not agree with above speaker number, order replacement parts by referring to model number of instrument, number stamped on speaker and full description of part required.	
70392	Cord—Power cord	<b>MISCELLANEOUS ASSEMBLIES</b>	
36237	Drum—Drive drum	39953	Back—Cabinet back for 56X
28236	Indicator—Station selector indicator for 56X and 56X2	70409	Back—Cabinet back for 56X2
37058	Indicator—Station selector indicator for 56X3	70410	Back—Cabinet back for 56X3
31951	Loop—Antenna loop (L-1)	X1604	Board—Baffle board and grille cloth
11785	Lamp—Dial lamp	36890	Clamp—Dial clamp, left hand, for 56X and 56X2
36210	Plate—Dial back plate complete with pulleys less dial	36891	Clamp—Dial clamp, right hand, for 56X and 56X2
36220	Pulley—Drive cord pulley	39954	Dial—Glass dial scale for 56X and 56X2
30189	Resistor—120 ohms, 1/4 watt (R-6)	70410	Dial—Glass dial scale for 56X3
61354	Resistor—1200 ohms, 1 watt (R-11)	37821	Fastener—Push fastener (1 set for cabinet backs on 56X and 56X2)
30854	Resistor—1500 ohms, 1/4 watt (R-4)	39908	Fastener—Push fastener for cabinet (4 required)
30733	Resistor—3500 ohms, 1/4 watt (R-1)	70414	Knob—Control knob (ivory) for 56X
30432	Resistor—22,000 ohms, 1/4 watt (R-2)	36722	Knob—Control knob (walnut) for 56X and 56X3
14593	Resistor—470,000 ohms, 1/4 watt (R-3, R-10)	36906	Spring—Retaining spring for knob
20848	Resistor—470,000 ohms, 1/4 watt (R-7)		
36785	Resistor—1 megohms, 1/4 watt (R-8)		
12828	Resistor—3.3 megohms, 1/4 watt (R-3)		
20851	Resistor—4.7 megohms, 1/4 watt (R-9)		
28887	Shunt—Tuning knob shaft		

**Critical Lead Dress**

- Dress output plate bypass capacitor (C-11 .02 m) against chassis.
- Dress 35L6GT plate lead (red) against chassis and away from volume control, leads and terminals.
- Dress audio coupling capacitor (C-7 .02 m) away from 35L6GT heater leads.
- Dress tone control lead against front apron.
- Dress 2nd I.F. filter and brown leads away from output plate bypass capacitor (C-11, .02 m) and away from all heater leads.
- Dress lead to speaker voice coil away from tuning shaft “C” washer.
- Dress tone control capacitor (C-10, .0018 m) away from oscillator coil.
- Dress all uninsulated leads away from each other and away from chassis to prevent short circuits.
- Dress blue and green leads of both IF transformers back in shield leaving exposed lengths as short as possible.

Frequency Range	540-1600 kc
Intermediate Frequency	455 kc
Power Output	Undistorted ..... 1.0 watt
	Maximum ..... 1.5 watts
Power Supply Rating	105-125 volts, AC, 50 or 60 cycles, or DC ..... 30 watts
Pilot Lamp	Mazda No. 51, 6-8 volts, 0.2 amp
Tuning Drive Ratio	20:1
Loudspeaker (95310-1)	
Type	5-inch PM
V. C. Impedance	3.4 ohms at 400 cycles

