



RCA Victor

MODEL 60

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

TECHNICAL INFORMATION AND SERVICE DATA

— 1946 No. 16 —

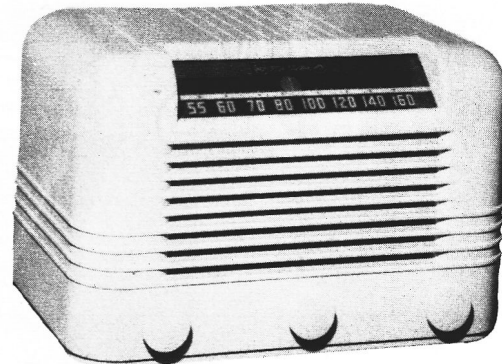
SERVICE DIVISION

RCA VICTOR COMPANY LIMITED

MONTREAL

Precautionary Lead Dress

1. Dress output plate bypass capacitor (C-19 .02 mf) against chassis.
2. Dress 35L6GT plate lead (red) against chassis and away from volume control leads and terminals.
3. Dress audio coupling capacitor (C-15 .02 mf) away from 35L6GT heater leads.
4. Dress tone control lead against front apron.
5. Dress 2nd I-F yellow and brown leads away from output plate bypass capacitor (C-19 .02 mf.) and away from all heater leads.
6. Dress lead to speaker voice coil away from tuning shaft "C" washer.
7. Dress tone control capacitor (C-18 .0018 mf.) away from oscillator coil.
8. Dress all uninsulated leads away from each other and away from chassis to prevent short circuits.
9. Dress blue and green leads of both IF transformers back in shields leaving exposed lengths as short as possible.



Electrical and Mechanical Specifications

Frequency Range 540-1,600 kc
Intermediate Frequency 455 kc

TUBE COMPLEMENT

- (1) TYPE 12SG7 Converter
- (2) TYPE 12SK7 Oscillator
- (3) TYPE 12SK7 I-F Amplifier
- (4) TYPE 12SQ7 2nd-Detector, 1st A-F, and A.V.C.
- (5) TYPE 35L6GT Power Output
- (6) TYPE 35Z5GT Rectifier

POWER OUTPUT

Undistorted 1. watts
Maximum 1.5 watts

POWER SUPPLY RATINGS

Rating A 105-125 volts, 50-60 cycles, 30 watts
Rating B 105-125 volts, 25-60 cycles, 30 watts

Loudspeaker (92510-1)

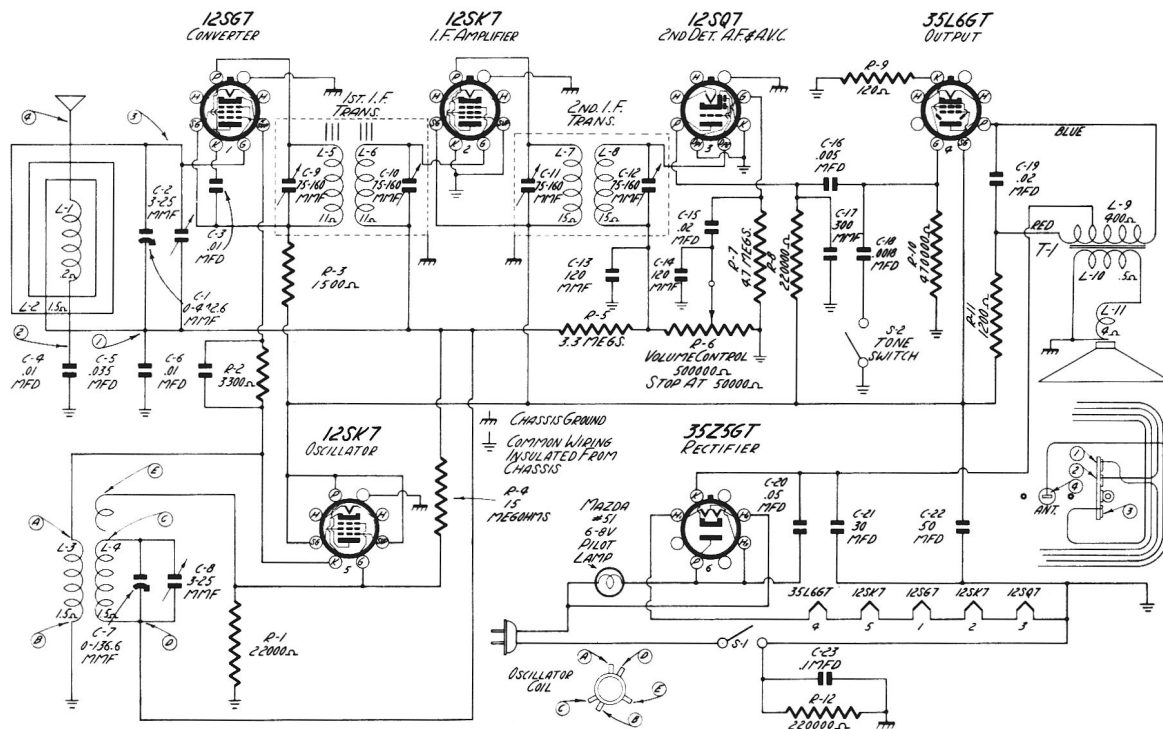
Type 5-inch PM
V. C. Impedance 3.4 ohms at 400 cycles

REPLACEMENT PARTS

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			
12952	Capacitor 330 Mmfd. (C17).....	37605	Socket-Tube Socket.....
33640	Capacitor .005 Mfd. (C16).....	31418	Spring-Drive cord tension (Pkg.2)....
34506	Capacitor .001 Mfd. (C18).....	36228	Switch-Tone Switch (S2).....
70652	Capacitor .01 Mfd. (C3,C4,C6).....	S-3639	Transformer-1st I.F. (L5,L6,C9,C10)...
31796	Capacitor .02 Mfd. (C15,C19).....	S-3640	Transformer-2nd I.F. (L7,L8,C11,C12, C13,C14).....
5196	Capacitor .035 Mfd. (C5).....	36242	Volume Control (R6,S1).....
32787	Capacitor .05 Mfd. (C20).....	SPEAKER ASSEMBLIES	
70617	Capacitor .1 Mfd. (C23).....	70413	Speaker-Complete.....
39152	Capacitor-Electrolytic 30-50 Mfd. (C21, C22).....	S-4016	Transformer-Output (T1).....
36226	Condenser-Variable (C1,C2,C7,C8).....	MISCELLANEOUS ASSEMBLIES	
S-3911	Coil-Oscillator Coil (L3,L4).....	39953	Back-Cabinet back.....
36236	Indicator-Station selector pointer....	S-3694	Cabinet-Walnut.....
S-3638	Loop-Antenna Loop (L1,L2).....	S-3743	Cabinet-Ivory.....
30189	Resistor-120 ohms 1/4 watt (R9).....	32634	Cord-Drive Cord (Universal).....
6134	Resistor-1200 ohms 1/4 watt (R11).....	37831	Fastener-Push fastener for cabinet backs (Set 4).....
30654	Resistor-1500 ohms 1/4 watt (R3).....	70414	Knob-Ivory.....
30733	Resistor-3300 ohms 1/4 watt (R2).....	36722	Knob-Walnut.....
30492	Resistor-22,000 ohms 1/4 watt (R1).....	11765	Lamp-Pilot lamp (Mazda 51).....
14583	Resistor-220,000 ohms 1/4 watt (R8,R12).....	36230	Pulley-Drive Cord Pulley (Pkg.3).....
30648	Resistor-470,000 ohms 1/4 watt (R10)...	39954	Scale-Station selector dial scale
31417	Resistor-3.3 Megohms 1/4 watt (R5).....	30900	Spring-Knob retaining spring (Pkg.5)...
30931	Resistor-4.7 Megohms 1/4 watt (R7).....		
38785	Resistor-15. Megohms 1/4 watt (R4).....		
36897	Shaft-Drive Shaft.....		

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



Schematic Circuit Diagram

NOTE—C13-C14 located in can of 2nd I-F Trans.

Alignment Procedure

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	Grid of 12SG7 in series with .01 mfd.	455 kc	Quiet-point 1,600 kc end of dial	C11 and C12 2nd I-F transformer
2				C9 and C10 1st I-F transformer
3	Ant. lead in series with 220 mmfd.	1,630 kc	1,630 kc	C8 (osc.)
4		1,500 kc	1,500 kc	C2 (ant.)
5	Repeat 3 & 4			

Output Meter Alignment

Connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test Oscillator

For all alignment operations, connect the low side of the test oscillator to the receiver chassis through a .01 capacitor and keep the output as low as possible, to avoid A.V.C. action.

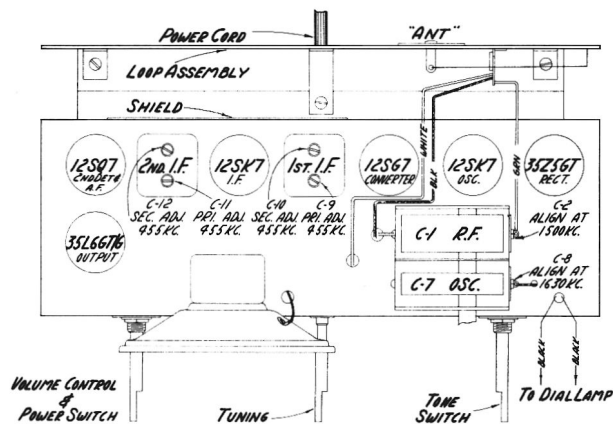
Pre Setting Dial

With the gang condenser in full mesh, the pointer should be adjusted so that it lines up with the first mark on the left of the dial scale.

Radiotron Socket Voltages

Type	Plate	Screen Grid	Cathode	Heater
12SG7	98 v.	98 v.	4.7 v.	12 v.
12SK7	100 v.			12 v.
12SK7	99 v.	100 v.		12 v.
12SQ7	60 v.			12 v.
35L6GT	120 v.	100 v.	5.6 v.	35 v.
35Z5GT			132 v.	35 v.

Voltages should hold within plus or minus 20% with rated supply voltage.



Tube and Trimmer Locations