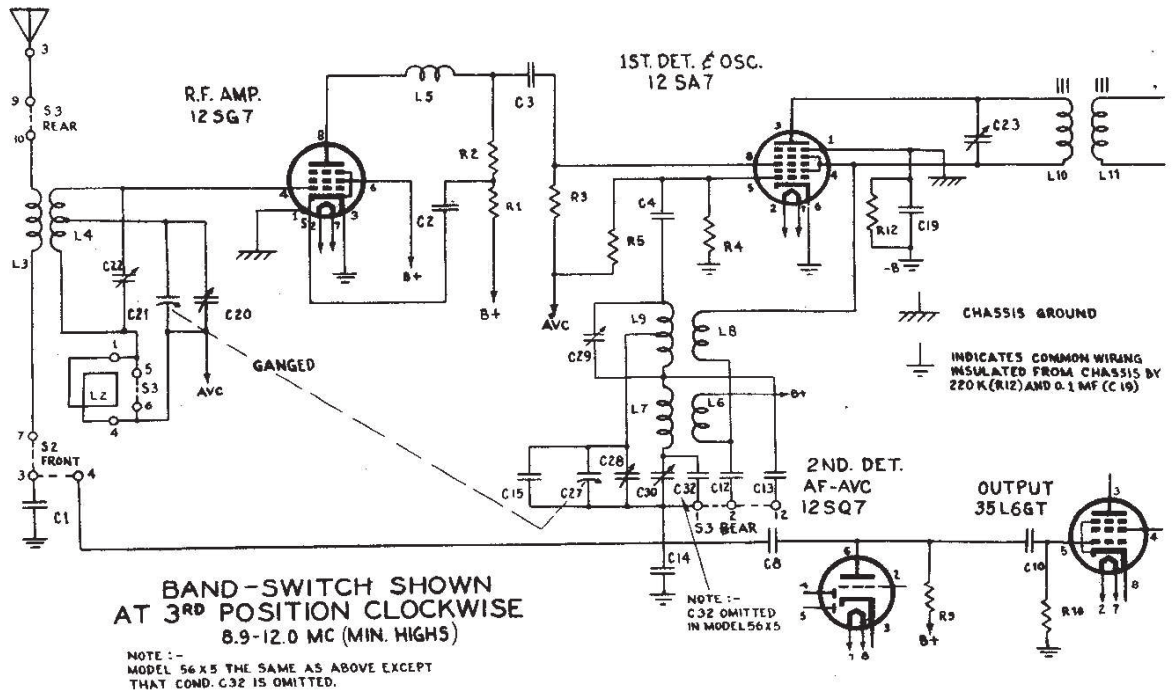
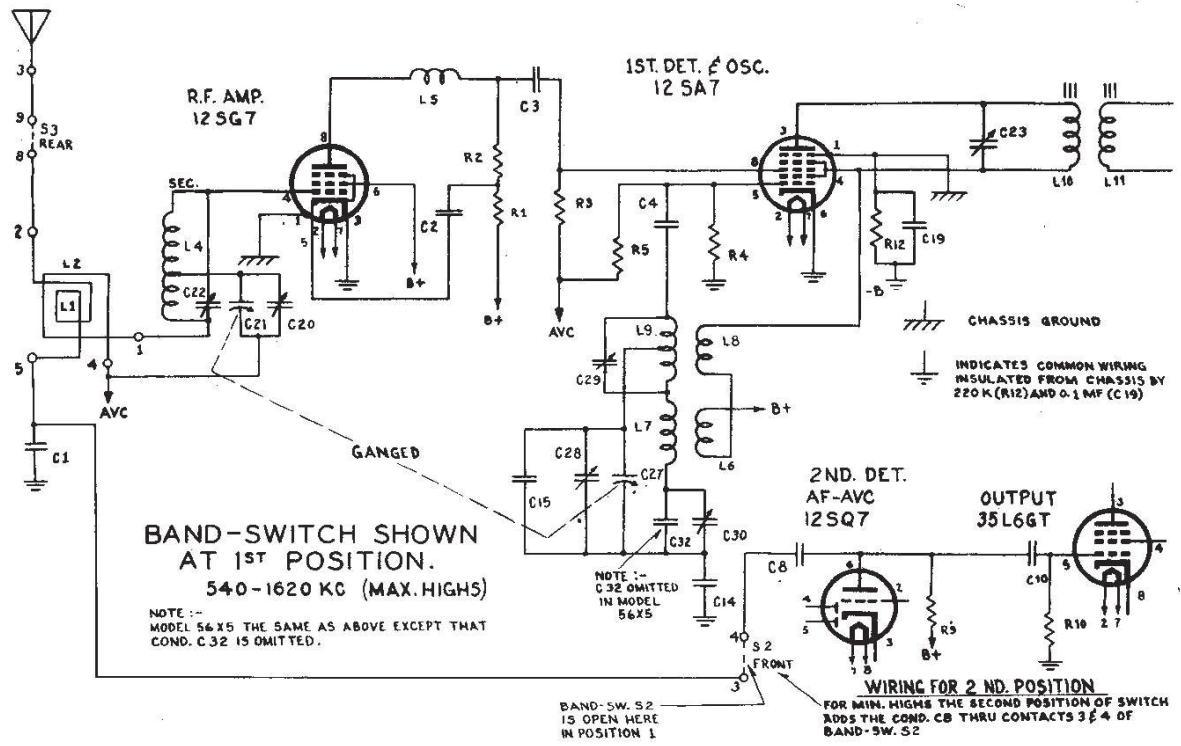
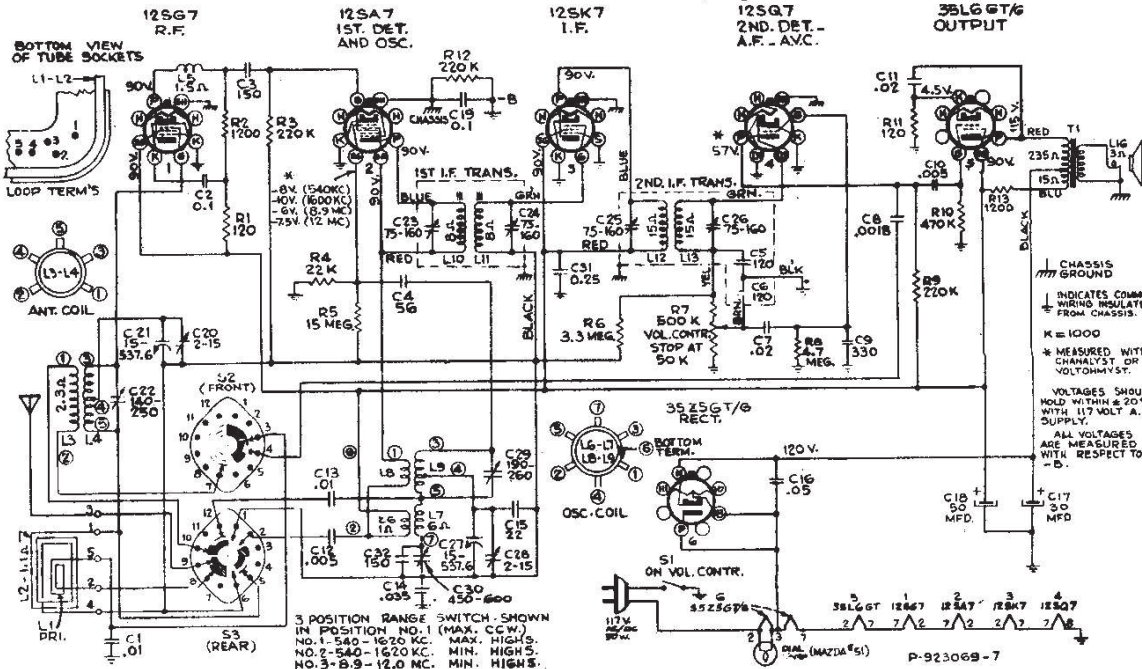


RCA MFG. CO.

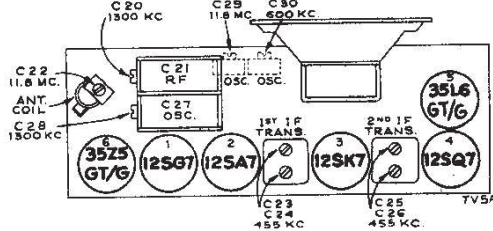


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MODELS 61-5, Ch. RC-1023,
61-10, Ch. 1023B

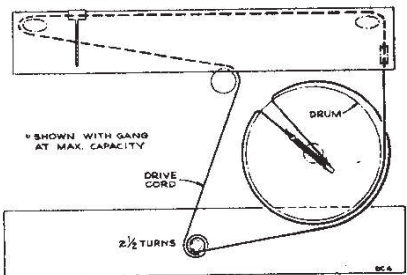


Note: On some sets C31 may be 0.1 mfd. or 0.2 mfd.



Dial Pointer Adjustment.—Rotate tuning condenser fully counter-clockwise (plates fully meshed). Adjust indicator pointer to left (max. cap.) mark on dial backing plate.

Calibration Scale.—The glass tuning dial may be removed from the cabinet and temporarily attached to the dial backing plate.



Critical Lead Dress

1. Dress blue and green leads of both I-F transformers back in shield cans, leaving them as short as possible.
2. Dress R-F plate filter capacitor (C2, 0.1 mfd.) back against rear chassis apron.
3. Dress yellow and brown leads from 2nd I-F away from all other leads.
4. Dress all heater leads next to chassis.
5. Dress capacitor (C13, .01 mfd.) parallel to osc. coil and approximately 3/16 inch from coil.
6. Dress tone control lead and speaker field leads next to chassis and front apron.
7. Dress pilot lamp leads away from ant. coil.
8. Dress leads from loop to ant. coil around rectifier tube towards end of chassis.
9. Dress output plate lead against chassis.

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

Output Meter.—Connect meter across speaker voice coil. Turn volume control to maximum clockwise position, station selector switch to broadcast maximum high position (pos. 1), for broadcast alignment and to position 3 for high frequency band.

Steps	Connect high side of the test oscillator to—	Tune test osc. to—	Turn radio dial to—	Adjust the following for maximum peak output
1	Pin #8 of 12SA7 in series with 0.1 mfd.	455 kc	Quiet Point at 1,600 kc end of dial	C25, C28 2nd I-F trans.
2				*C23, C24 1st I-F trans.
3		600 kc	600 kc "A" Band	C30 (osc.) Rock gang
4	Ant. terminal in series with 220 mmf	1300 kc	1300 kc "A" Band	C28 (osc.) C20 R-F
5			Repeat 3 Rocking gang	
6			Repeat 3, 4 and 5 for exact cal.	
7	Ant. terminal in series with 0.1 mfd.	11.8 mc	11.8 mc	C29 (osc.) Rock gang
8	Ant. terminal in series with 47 mmf.	11.8 mc	11.8 mc	C22 (R-F) Rock gang
9			Repeat steps 7 and 8	

† Use minimum capacity peak if two can be obtained. Check for selection of correct peak by tuning receiver to approximately 10.9 mc where a weaker signal should be received.

* Do not readjust C25 or C26.

Frequency Range

Broadcast	540-1600 mc
Short Wave	8.9-12 mc
Intermediate Frequency	455 kc

Power Output

Undistorted	1.0 watts
Maximum	1.5 watts

Loudspeaker (92510-1) "PM"

Size	5-inch
V.C. Impedance	3.4 ohms at 400 cycles
Power Supply Rating	105-125 volts, AC, 50 or 60 cycles, or DC
	30 watts

MODELS 61-5,61-10

MODELS 61-6,61-7

RCA MFG. CO.

MODELS 61-6,61-7

STOCK No.	DESCRIPTION	STOCK No.	DESCRIPTION
CHASSIS ASSEMBLIES			
RC-594D			
71387	Capacitor—Adjustable, 1.8-18 mmf. (C37)	12928	Resistor—3.3 megohms, 1/4 watt (R2)
70387	Capacitor—Mica trimmer, 2.10 mmf. (C7)	30992	Resistor—10 megohms, 1/4 watt (R6)
39622	Capacitor—Mica, 56 mmf. (C4)	70369	Shaft—Tuning knob shaft
39636	Capacitor—Mica, 220 mmf. (C1A, C17)	37605	Socket—Tube socket, moulded
71392	Capacitor—Mica, 450 mmf. (C5B)	31418	Spring—Tension spring for drive cord
70627	Capacitor—Tubular, .005 mid., 800 volts (C1, C16, C18)	71384	Switch—Range switch (S1)
70612	Capacitor—Tubular, .025 mid., 400 volts (C10, C20)	70361	Transformer—First I-F transformer (L8, L9, C8, C9)
70615	Capacitor—Tubular, .05 mid., 400 volts (C23)	70362	Transformer—Second I-F transformer (L10, L11, C12, C13, C14, C15)
70617	Capacitor—Tubular, 0.1 mid., 400 volts (C11)	71398	Transformer—Output transformer (T1)
39152	Capacitor—Electrolytic, comprising 1 section of 50 mid., 150 volts and 1 section of 30 mid., 150 volts (C30, C30A)	33726	Washer—Retaining washer for tuning shaft
71396	Coil—Antenna coil (L1, L2)	SPEAKER ASSEMBLY	
37962	Coil—Antenna loop coupling coil (L3, L5, R20)	92510-2	
70359	Coil—Oscillator coil (L6, L7)	70372	Speaker—5-inch PM speaker complete
70366	Condenser—Variable tuning condenser (C2, C3, C5, C6)	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.	
38406	Control—Volume control and power switch (R4, S2)	MISCELLANEOUS ASSEMBLIES	
32634	Cord—Drive cord (approx. 37 inches long)	37362	Clamp—Dial clamp (1 set)
70392	Cord—Power cord	71324	Decal—Trade mark decalcomania
70365	Core—Adjustable core and stud for oscillator coil	71389	Dial—Dial scale
16058	Grommet—Rubber grommet for mounting speaker—3 required	37631	Fastener—Push fastener for back cover (1 set)
37068	Indicator—Station selector indicator	35121	Knob—Range switch knob for Radiola 61-6
71397	Loop—Antenna loop (L4)	35123	Knob—Range switch knob for Radiola 61-7
70364	Nut—Speed nut to mount oscillator coil	36722	Knob—Volume control or tuning knob for Radiola 61-6
70368	Plate—Dial back plate complete with pulleys less dial	70414	Knob—Tuning or volume control knob for Radiola 61-7
36230	Pulley—Drive cord pulley	35126	Spring—Retaining spring for range switch knob
30880	Resistor—150 ohms, 1/2 watt (R7)	30900	Spring—Retaining spring for volume control or tuning knob
30152	Resistor—1000 ohms, 1 watt (R9)		
30685	Resistor—33,000 ohms, 1/4 watt (R1A)		
30787	Resistor—47,000 ohms, 1/4 watt (R3)		
14583	Resistor—220,000 ohms, 1/4 watt (R19)		
30648	Resistor—470,000 ohms, 1/4 watt (R8)		
30649	Resistor—2.2 megohms, 1/4 watt (R1)		

PRECAUTIONARY LEAD DRESS

1. Dress output plate capacitor and output transformer leads down next to chassis.
2. Dress 12SQ7 grid resistor down next to chassis, and away from power ground wire to switch.
3. Dress lead from 2nd I-F transformer to volume control down to chassis and away from adjacent parts.
4. Keep grid end of R1 as short as possible.
5. Keep body of C1A slightly away from chassis.

POWER SUPPLY POLARITY.—For operation on d-c, the power plug must be inserted in the outlet for correct polarity. If the set does not function, reverse the plug. On a-c, reversal of the plug may reduce hum.

Tuning Drive Ratio 18 to 1

Power Supply Rating

105-125 volts D.C. or 50-60 cycles A.C. 30 watts

Power Output Rating

Undistorted 1 watt
Maximum 1.5 watts

Loudspeaker (92510-2)

Type 5-inch Round Permanent-Magnet Dynamic
Voice Coil Impedance 4 ohms at 400 cycles

Frequency Ranges

Standard Broadcast ("A" Band) 540-1,680 kc (555-178 m)
Short Wave ("C" Band) 4.7-18.2 mc (63.9-16.5 m)

Intermediate Frequency 455 kc

MODELS 61-5,61-10

STOCK No.	DESCRIPTION	STOCK No.	DESCRIPTION
CHASSIS ASSEMBLIES			
RC-1023 and RC-1023B			
39612	Capacitor—Mica, 22 mmf. (C15)	12928	Resistor—3.3 megohms, 1/4 watt (R6)
39622	Capacitor—Mica, 56 mmf. (C4)	30931	Resistor—4.7 megohms, 1/4 watt (R8)
39632	Capacitor—Mica, 150 mmf. (C3, C32)	38785	Resistor—15 megohms, 1/4 watt (R5)
70417	Capacitor—Mica trimmer, 140-250 mmf., mounted on antenna coil (C22)	36897	Shaft—Tuning knob shaft
39839	Capacitor—Adjustable mica, comprising 1 section of 180-260 mmf. and 1 section of 450-600 mmf. (C29, C30)	34449	Socket—Lamp socket
39640	Capacitor—Mica, 390 mmf. (C9)	37605	Socket—Tube socket, moulded
70712	Capacitor—Tubular, .0018 mid., 800 volts (C8)	31251	Socket—Tube socket, wafer
70627	Capacitor—Tubular, .005 mid., 800 volts (C10, C12)	31418	Spring—Drive cord tension spring
70652	Capacitor—Tubular, .01 mid., 1000 volts (C1, C13)	39837	Switch—Range switch (S2, S3)
70711	Capacitor—Tubular, .02 mid., 700 volts (C7, C11)	36800	Transformer—Output transformer (T1)
70635	Capacitor—Tubular, .035 mid., 800 volts (C14)	70411	Transformer—First I-F transformer (L10, L11, C23, C24)
70615	Capacitor—Tubular, .05 mid., 400 volts (C16)	70412	Transformer—Second I-F transformer (L12, L13, C5, C6, C25, C26)
70617	Capacitor—Tubular, 0.1 mid., 400 volts (C2, C19)	33726	Washer—"C" washer for tuning knob shaft
70618	Capacitor—Tubular, 0.25 mid., 400 volts (C31)	SPEAKER ASSEMBLY	
39152	Capacitor—Electrolytic, comprising 1 section of 30 mid., 150 volts, and 1 section of 50 mid., 150 volts (C17, C18)	92510-1	
70416	Coil—Antenna coil (L3, L4, C92)	70413	Speaker—5-inch P.M. speaker complete with cone and voice coil
39892	Coil—Oscillator coil (L6, L7, L8, L9)	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.	
70418	Coil—Peaking coil (L5)	MISCELLANEOUS ASSEMBLIES	
70700	Condenser—Variable tuning condenser (C20, C21, C27, C28)	RC-1023 (61-5)	
36242	Control—Volume control and power switch (R7, S1)	38777	Back—Cabinet back
32634	Cord—Drive cord (approx. 49 inches overall length)	X1603	Cloth—Grille cloth
70392	Cord—Power cord	70708	Dial—Glass dial scale
35237	Drum—Drive drum	33006	Feet—Rubber feet for cabinet (4 required)
37068	Indicator—Station selector indicator	36886	Knob—Range switch knob
11785	Lamp—Dial lamp (Manda 51)	38722	Knob—Tuning or volume control knob
70990	Lead—Antenna lead	30900	Spring—Retaining spring for knobs
39841	Loop—Antenna loop (L1, L2)	RC-1023B (61-10)	
36229	Plate—Dial back plate complete with drive cord pulleys less dial	39853	Back—Cabinet back
36230	Pulley—Drive cord pulley	36890	Clamp—Dial clamp—left hand
30189	Resistor—120 ohms, 1/4 watt (R1, R11)	36891	Clamp—Dial clamp—right hand
30731	Resistor—1200 ohms, 1/4 watt (R3)	71324	Dial—Glass dial scale
6134	Resistor—1200 ohms, 1 watt (R13)	37831	Fastener—Push fastener (1 set) for cabinet back
30492	Resistor—22,000 ohms, 1/4 watt (R4)	71016	Knob—Control knob
14583	Resistor—220,000 ohms, 1/4 watt (R3, R9, R12)	30900	Spring—Retaining spring for knobs
30648	Resistor—470,000 ohms, 1/4 watt (R10)		