REPLACEMENT PARTS

Models 8Q2, 8Q5C, 8Q5M Insist on genuine factory-tested parts, which are readily identified and may be purchased from authorized dealers.

STOCK No.	DESCRIPTION	Unit List Price
	CHASSIS ASSEMBLIES (RC-645 and RC-645B)	
34133	Arm—Band indicator arm—located on range switch shaft	.45
54502	Arm—Operating arm on range switch shaft	.25
10194	Ball—Steel ball	.02
31767	Board—Antenna ground terminal board	.20
34131	Bracket—Drive cord pulley and brackets	.55
33919	Capacitor—Trimmer capacitor—3 sections of 8-10 mmfd. each	.60
12714	Capacitor—Air trimmer capacitor—2-12 mmfd. (C11, C19)	.50
33817	Capacitor—Trimmer capacitor—1 section of 2-20 mmfd. (C15)	.30
33820	Capacitor—Trimmer capacitor — 3 sections of 3-30 mmfd. each (C1, C2, C3)	.60
31868	Capacitor—22 mmfd. (C44)	.20
12723	Capacitor—56 mmfd. (C18)	.35
30949	Capacitor—56 mmfd. (C21, C22)	.35
12722	Capacitor—100 mmfd. (C39)	.35
12404	Capacitor—120 mmfd. (C25, C24)	.30
14719	Capacitor—180 mmfd. (C35)	.30
12694	Capacitor—220 mmfd. (C4, C6, C18, C13)	.35
33235	Capacitor—560 mmfd. (C14)	.40
12611	Capacitor—1,610 mmfd. (C12)	.60
31405	Capacitor—8,000 mmfd. (C37)	.75
6107	Capacitor—.0025 mfd. (C27, C29)	.20
4838	Capacitor—.005 mfd. (C33, C42)	.25
13033	Capacitor—.007 mfd. (C32)	.25
4958	Capacitor—.01 mfd. (C26, C30)	.25
32787	Capacitor—.03 mfd. (C36, C38)	.30
32786	Capacitor—.1 mfd. (C29, C40)	.25
12484	Capacitor—.25 mfd. (C41)	.50
33014	Capacitor—Comprising 3 sections of 10 mfd., 450 volts, and 1 section of 20 mfd., 25 volts (C20, C29, C34, C35)	1.90
25762	Coil—Antenna coil—A-B-C bands (L1, L2, L3, L4)	1.20
33763	Coil—Detector coil—A-B-C bands (L5, L6, L7, L8)	1.60
32824	Coil—Oscillator coil—A-B-C bands (L9, L10, L11)	1.00
33756	Condenser—Variable tuning condenser (C5, C10, C17)	5.50
33814	Control—Volume control and switch (R10, S8)	2.00
32835	Cord—Indicator drive cord	.24
32834	Cord—Tuning condenser drive cord	.30
32713	Core—Adjustable core and stud for oscillator coils	.35
33770	Drive—Plain vary tuning drive—less shafts and balls, and shafts retainer	.90
33773	Drum—Variable tuning condenser drum and hub	.60
33185	Gear—Shaft and gear for volume control	.50
34132	Gear—Shaft and gear for tone control	.55
11691	Lamp—Pilot lamp	.17
33767	Link—Operating link and arm on range switch knob shaft	.60
5040	Plug—4-contact female plug for speaker cable	.30
34139	Pulley—Drive pulley and brackets	.30
14091	Resistor—68 ohms, ½ watt (R1)	.20
17214	Resistor—300 ohms, 2 watt (R16)	.22
12955	Resistor—3,900 ohms, ½ watt (R9)	.20
14559	Resistor—10,000 ohms, ½ watt (R15)	.20
33489	Resistor—15,000 ohms, 2½ watt (R5)	.55
14684	Resistor—22,000 ohms, 1/10 watt (R7)	.15
12434	Resistor—33,000 ohms, ½ watt (R19)	.20
3252	Resistor—100,000 ohms, ½ watt (R6)	.20
13286	Resistor—470,000 ohms, ½ watt (R13, R14, R17, R18)	.20
13730	Resistor—1 megohm, ½ watt (R2, R3, R8)	.20
12679	Resistor—2.2 megohms, ½ watt (R4)	.20
13601	Resistor—10 megohms, ½ watt (R11, R12)	.20
14350	Screw—No. 8-32 x 11/32 square head set screw for gear and drum	.03
34134	Shaft—Range switch shaft	.80
34135	Shaft—Tuning knob shaft	.70
33529	Socket—Magic Eye bracket and socket	.50
14278	Socket—Phonograph input socket	.25
31361	Socket—Pilot lamp socket	.20
31231	Socket—Tube socket	.25
34137	Spring—Indicator drive cord spring	.05
33769	Spring—Planetary tuning drive spring	.15
31418	Spring—Tuning condenser drive cord spring	.05
33757	Switch—Range switch (S1, S2, S3, S4, S5)	2.25
34602	Switch—Tone control (S6)	1.25
33263	Transformer—1st I.F. transformer (L12, L13, C21, C22)	2.30
14308	Transformer—2nd I.F. transformer (L14, L15, C23, C24, C25, R7)	2.30
31734	Transformer—Power transformer—105/125 volts, 25/60 cycle (T3)	10.35
31733	Transformer—Power transformer—105/125 volts, 50/60 cycle (T1)	4.75
31735	Transformer — Power transformer — 105/130, 140/160, 200/250 volts, 50/60 cycle (T1, S7)	10.80
	MOTOR ASSEMBLIES (Model 8Q5-C) (Model 8Q5-M)	
32650	Field—Motor field coils and laminations, 110 volts, 50 cycle	5.10
32336	Field—Motor field coils and laminations, 110 volts, 60 cycle	5.10
33220	Motor—105-125 volts, 50 cycles—less mounting plate	11.25
33219	Motor—105-125 volts, 60 cycles—less mounting plate	10.75
33361	Shaft—Turntable spindle shaft and gear—50 cycle	1.40
33360	Shaft—Turntable spindle shaft and gear—60 cycle	1.40

STOCK No.	DESCRIPTION	Unit List Price
	PICKUP AND ARM ASSEMBLIES (Model 8Q5-M)	
31304	Arm—Pickup arm—less unit cable and pivot arm	1.50
34303	Arm—Pivot arm and set screw	1.40
14291	Armature—Pickup armature	1.45
14930	Coil—Pickup coil	1.80
14892	Damper—Pickup armature damper	.25
33886	Pickup Unit—Magnet, coil, needle screw, and armature, assembled	4.95
34360	Screw—No. 6-32 x ¼ headless set screw for pickup pivot arm	.15
3811	Screw—Needle screw	.10
	PICKUP AND ARM ASSEMBLIES (Model 8Q5-C)	
34306	Arm—Pickup arm—less crystal, cable, and pivot arm	1.80
34359	Arm—Pickup pivot arm with set screw	.80
34360	Bushing—Rubber bushing for pickup pivot arm	.05
34367	Crystal—Pickup crystal cartridge and needle screw	5.75
33529	Screw—Needle screw	.10
34300	Screw—No. 6-32 x ¼ headless set screw for pickup pivot arm	.15
	AUTOMATIC SWITCH ASSEMBLIES (Model 8Q5-C) (Model 8Q5-M)	
34315	Base—Pickup arm base for crystal pickup—Model 8Q5-C	.85
34312	Base—Pickup arm base for magnetic pickup—Model 8Q5-M	.30
32805	Bracket—Switch bracket and terminal board	.40
34308	Cam—Switch cam assembly with spring	.55
32864	Lever—Switch actuating lever, roller, and clip	.45
34309	Mounting—Pickup arm base mounting (rubber grommet, washers, and nut)	.20
34311	Ring—Retaining ring for pickup arm pivot shaft	.05
14395	Screw—No. 10-32 x 5/16 set screw for switch cam hub	.05
34314	Shaft—Pickup arm pivot shaft—for crystal pickup—Model 8Q5-C	.65
34313	Shaft—Pickup arm pivot shaft—for magnetic pickup—Model 8Q5-M	.65
34310	Spool—Insulating spool for switch leads	.10
32988	Spring—Switch lever spring	.05
32867	Spring—Tension spring for switch cam	.05
32866	Switch—Mercury tube and leads	1.75
31608	Washer—Retaining washer for switch lever	.01
	SPEAKER ASSEMBLIES (RL-65-J6)	
31825	Cap—Dust cap	.02
12079	Coil—Field coil (L18)	3.30
11469	Coil—Neutralizing coil (L17)	.30
34274	Cone—Cone, complete with voice coil and dust cap (L16)	1.50
5039	Plug—4-prong male for speaker	.30
14534	Transformer—Output transformer (T2)	2.10
	MISCELLANEOUS ASSEMBLIES	
32610	Bumper—Rubber bumper for pickup arm—Models 8Q5-C and 8Q5-M	.10
34308	Cam—Actuating cam for automatic switch—Models 8Q5-C and 8Q5-M	.55
11315	Capacitor—.015 mfd.—Model 8Q5-C (C51)	.20
5126	Capacitor—.035 mfd.—Model 8Q5-M (C50)	.20
32880	Cup—Needle cup—Models 8Q5-C and 8Q5-M	.10
31464	Damper—Turntable rubber drive sleeves and metal damper plate—Models 8Q5-C and 8Q5-M	.30
34142	Dial—Dial glass scale	1.05
34140	Frame—Dial frame less pointers, dial glass and guide rods	2.50
13085	Hinge—Cabinet lid hinge—Models 8Q5-C and 8Q5-M	.22
11607	Holder—Packard needle holder—Models 8Q5-C and 8Q5-M	.85
34144	Indicator—Band indicator strip	.20
34141	Indicator—Station selector indicator and carriage	.40
34139	Knob—Range switch knob	.20
34137	Knob—Tone control knob	.20
34136	Knob—Volume control or tuning knob	.30
31048	Plug—2-contact male plug for phono. input cable —Models 8Q5-C and 8Q5-M	.15
12955	Resistor—3,900 ohms, ½ watt—Model 8Q5-C (R33)	.20
30128	Resistor—12,000 ohms, ½ watt—Model 8Q5-M (R31)	.20
13715	Resistor—82,000 ohms, ½ watt—Model 8Q5-M (R30)	.20
34588	Rest—Pickup rest—Models 8Q5-C and 8Q5-M	.40
34143	Rod—Dial pointer slide rod—Models 8Q5-C and 8Q5-M	.15
34491	Rod—Pointer carriage guide rod—Model 8Q2	.15
34316	Screw—Motor mounting screws, washers, and spacers (sufficient for 1 motor)—Models 8Q5-C and 8Q5-M	.40
14195	Screw—No. 10-32 set screw for cam, Stock No. 34308	.05
34145	Slide—Band indicator slide less strip	.20
32857	Spring—Actuating cam spring	.05
4992	Spring—Retaining spring for knob, Stock No. 34136	.05
14270	Spring—Retaining spring for knob, Stock No. 34137	.05
34138	Spring—Retaining spring for knob, Stock No. 34139	.05
31184	Support—Cabinet lid support—Models 8Q5-C and 8Q5-M	.45
14609	Transformer — Phono. input transformer for model with magnetic pickup—Model 8Q5-M	4.15
33532	Turntable—10-inch turntable—Models 8Q5-C and 8Q5-M	2.90

Model 8Q4

STOCK No.	DESCRIPTION	Unit List Price
	RECEIVER ASSEMBLIES (RC-337A)	
31815	Board—Antenna and ground terminal board	.20
12717	Board—Phonograph input terminal board	.22
31305	Bracket—Band indicator mounting bracket—less indicating strip, spring, and cord	.10
31820	Cable—Indicator pointer drive cable	.55
30798	Cap—Rubber cap for Magic Eye	.15
12607	Cap—Top shield cap for first or second i-f transformer	.20
12714	Capacitor—Trimmer 2-12 mmfd. (C1, C3, C10, C11, C35, C37, C38, C39)	.50
14079	Capacitor—6.8 mmfd. (C34)	.35
13200	Capacitor—10 mmfd. (C43, C45)	.35
12722	Capacitor—18 mmfd. (C2)	.35
13545	Capacitor—39 mmfd. (C44)	.35
31270	Capacitor—100 mmfd. (C17, C18)	.35
31813	Capacitor—120 mmfd. (C15, C19, C31, C33)	.30
12724	Capacitor—129 mmfd. (C24, C49)	.35
13003	Capacitor—180 mmfd. (C16, C49)	.35
12952	Capacitor—330 mmfd. (C5, C7, C8)	.35
31790	Capacitor—530 mmfd. (C42)	.40
31792	Capacitor—4,000 mmfd. (C36)	.60
31405	Capacitor—8,000 mmfd. (C37)	.75
4838	Capacitor—.005 mfd. (C26, C28)	.25
4958	Capacitor—.01 mfd. (C21, C22, C25)	.30
11315	Capacitor—.015 mfd. (C52)	.20
4866	Capacitor—.05 mfd. (C20)	.20
4839	Capacitor—0.1 mfd. (C4, C50)	.20
12484	Capacitor—0.25 mfd. (C23)	.30
5212	Capacitor—1.0 mfd. (C29)	1.35
31816	Clip—Magic Eye mounting clip	.15
31810	Coil—Antenna coil (L1, L2, L3, L4, L5)	2.50
31792	Coil—Oscillator coil—"A" band only (L13)	.80
31783	Coil—Oscillator coil—"B" and "C" bands only (L11, L12)	1.05
31812	Coil—Oscillator coil—"X" band only (L14)	.50
31811	Coil—R-f coil (L6, L7, L8, L9, L10)	2.40
31774	Condenser—3-gang variable tuning condenser (C4, C9, C40)	5.80
31278	Cord—Band indicator cord	.12
32805	Cord—Variable condenser drive cord	.25
31787	Drive—Two-speed drive and mounting bracket	1.85
31809	Drum—Variable condenser drive cord drum	.80
31819	Indicator—Band indicator strip	.15
11891	Lamp—Dial lamp	.17
31817	Plate—Cushion socket mounting plate—less socket	.10
5040	Plug—4-contact female plug for speaker cable	.30
14404	Plug—7-contact male plug for power input	.35
31788	Pulley—Two-speed drive pulley	.20
31280	Pulley—Indicator pointer drive cord pulley (large)	.10
31373	Pulley—Indicator pointer drive cord pulley (small)	.08
31278	Pulley—Range switch pulley	.08
14680	Resistor—18 ohms, ½ watt (R16)	.20
14528	Resistor—200 ohms, wire-wound, 2½ watt (R14)	.30
14837	Resistor—1,000 ohms, 1/10 watt (R22)	.15
13204	Resistor—8,200 ohms, 2 watt (R16)	.25
13202	Resistor—10,000 ohms, 1/10 watt (R23)	.15
14559	Resistor—10,000 ohms, ½ watt (R26)	.20
14284	Resistor—22,000 ohms, 1/10 watt (R6)	.15
12739	Resistor—27,000 ohms, ½ watt (R8)	.20
14187	Resistor—27,000 ohms, 2 watt (R21)	.25
11300	Resistor—33,000 ohms, 1/10 watt (R19)	.15
14023	Resistor—82,000 ohms, ½ watt (R13)	.20
14560	Resistor—100,000 ohms, ½ watt (R9)	.20
11453	Resistor—270,000 ohms, 1/10 watt (R5)	.15
12109	Resistor—270,000 ohms, ½ watt (R17)	.20
13005	Resistor—390,000 ohms, 1/10 watt (R12)	.15
12013	Resistor—1 meg., 1/10 watt (R1, R2, R18)	.15
5151	Resistor—2.2 meg., 1/10 watt (R4)	.15
14587	Retainer—Indicator drive cord pulley retainer	.01
4869	Screw—No. 8-32 x 3/8-in. square head set screw for pulley, Stock Nos. 31278 and 31788, and drum, Stock No. 31809	.03
31304	Socket—Dial lamp socket	.20
13871	Socket—Magic Eye socket	.45
31251	Socket—Octal base tube socket	.25
31279	Spring—Band indicator tension spring	.03
13638	Spring—Tension spring for pointer drive cable, or variable condenser drive cord	.08
31823	Switch—D.P.S.T. power switch with leads (S6, S8)	1.45
31808	Switch—Range switch (S1, S2, S3, S4, S6, S7)	2.25
31345	Tone Control and selectivity switch (R10, S6)	1.60
31063	Transformer—First i-f transformer (L15, L16, L24, C15, C16)	2.85
31064	Transformer—Second i-f transformer (L22, L23, L25, C51, C53)	2.25
31968	Transformer—Third i-f transformer (L17, L18, C17, C18)	2.05
31450	Volume Control (R7)	1.60
	SPEAKER ASSEMBLIES (RL-83J-1)	
31825	Cap—Speaker cone center dust cap	.05
11469	Coil—Hum neutralizing coil (L20)	.30
12012	Coil—Speaker field coil (L21)	2.90
31828	Cone—Speaker cone and voice coil (L19)	1.55
31826	Plug—4-contact male plug for speaker	.30
31827	Speaker—Complete	10.45
14366	Transformer—Output transformer (T1)	2.00
	MISCELLANEOUS ASSEMBLIES	
31824	Dial—Dial scale and crystal	1.20
31832	Escutcheon—Dial scale escutcheon—less dial scale and crystal	2.40
31717	Indicator—Indicator pointer and carriage	.40
31802	Knob—Station selector, tone control, volume control or range switch knob	.15
30868	Plug—3-contact female plug for speaker cable	.35
30870	Plug—3-contact male plug for speaker cable	.35
31287	Rod—Pointer carriage slide rod	.15
14270	Spring—Retaining spring for knob, Stock No. 31802	.05
31568	Spring—Stop spring for pointer slide rod	.02

Model 95T5LW

STOCK No.	DESCRIPTION	Unit List Price
	CHASSIS ASSEMBLIES (RC-348-F)	
32218	Capacitor—Antenna trimmer capacitor bank (C81, C21, C22, C23, C24)	1.20
32217	Capacitor—Trimmer capacitor bank (C18, C19)	.70
12722	Capacitor—56 mmfd. (C4)	.35
30904	Capacitor—100 mmfd. (C7, C8, C9, C10)	.35
12705	Capacitor—150 mmfd. (C30)	.35
15002	Capacitor—180 mmfd. (C12, C20)	.35
18537	Capacitor—560 mmfd. (C29)	.35
31418	Capacitor—750 mmfd. (C25)	.40
19636	Capacitor—1,600 mmfd. (C27)	.50
4838	Capacitor—.005 mfd. (C15)	.25
11315	Capacitor—.01 mfd. (C13, C14)	.30
4866	Capacitor—.05 mfd. (C11)	.20
30849	Capacitor—0.1 mfd. (C2, C26)	.30
14423	Capacitor—Comprising 2 sections 5 mfd. each (C16, C17)	1.40
31382	Clip—Oscillator coil and core mounting clip	.04
32218	Coil—Antenna coil (L1, L2)	1.90
31098	Coil—Oscillator coil (L3, L4)	.85
31382	Coil—Oscillator coil (L16)	.30
31384	Coil—Oscillator coil (L15)	.30
31418	Coil—Oscillator coil (L14)	.30
31097	Condenser—2-gang variable tuning condenser (C2, C3, C5, C6, C28)	2.70
30877	Cord—Indicator drive cord	.20
30905	Core—Adjustable core and stud for i-f transformers	.35
31386	Core—Adjustable core and stud for oscillator coils	.15
31421	Drum—Variable condenser drive cord drum	.45
32219	Indicator—Station selector indicator pointer	.20
11891	Lamp—Dial lamp	.17
31419	Plate—Dial color plate	.12
31378	Pulley—Indicator drive cord pulley	.08
13428	Resistor—150 ohms, ½ watt (R31)	.20
31084	Resistor—680 ohms, ½ watt (R9)	.20
30151	Resistor—18,000 ohms, 1 watt (R32)	.22
12738	Resistor—47,000 ohms, ½ watt (R10)	.20
31422	Resistor—Resistor—56,800 ohms, ½ watt (R2)	.20
13199	Resistor—270,000 ohms, ½ watt (R7)	.20
12685	Resistor—470,000 ohms, ½ watt (R5)	.20
12679	Resistor—2.2 meg., ½ watt (R4)	.20
13601	Resistor—10 meg., ½ watt (R6)	.20
14550	Screw—No. 8-32 square head set screw for drum Stock No. 31421	.03
31364	Socket—Dial lamp socket	.20
31251	Socket—Tube socket	.25
31419	Spring—Indicator drive cord tension spring	.05
32215	Switch—Station selector switch (S12, S13, S14, S15, S16, S17, S10, S21, S22, S23, S24, S25)	3.00
30902	Volume control and power switch (R5, S1)	1.60
30902	Transformer—First i-f transformer (L5, L6, C7, C8)	1.90
30903	Transformer—Second i-f transformer (L7, L8, C9, C10)	1.80
31410	Transformer—Power transformer, 100-120 and 200-240 volts, 50-60 cycle (T1)	5.80
	SPEAKER ASSEMBLIES (Speaker 14326-2)	
31473	Cone—Speaker cone and voice coil (L5)	1.70
31472	Speaker—Complete	4.05
31474	Transformer—Output transformer (T2)	1.85
	MISCELLANEOUS ASSEMBLIES	
31428	Button—Station selector switch push button	.50
32220	Dial—Station selector dial scale	.45
31095	Discs—10 celluloid protector discs for call letter markers	.10
30863	Knob—Volume control and power switch, or tuning condenser knob	.15
30921	Marker—Station call letter markers	.40
30900	Spring—Retaining spring for knob Stock No. 30863	.08

ALL PRICES ARE SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.

MODEL 8Q4
Ch.RC-337A
Alignment,Trimmers
Socket

RCA MFG. CO., INC.

Alignment Procedure

Cathode-Ray Alignment is the preferable method. Connections for the oscillograph are shown in the chassis drawing.

Output Meter Alignment.—If this method is used, connect the meter across the voice coil, and turn the receiver volume control to maximum.

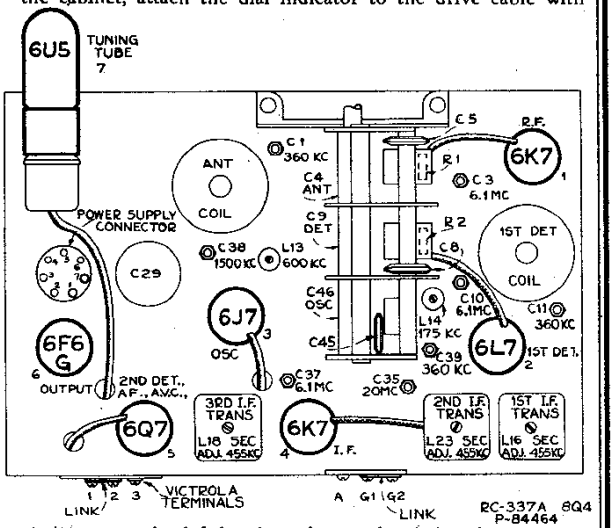
Test-Oscillator.—For all alignment operations, connect the low side of the test-oscillator to the receiver chassis, and keep the output as low as possible to avoid a-v-c action.

Calibration Scale on Indicator-Drive-Cord Drum. — The tuning dial is fastened in the cabinet and cannot be used for reference during alignment; therefore, a calibration scale is attached to the rear of the drum which is mounted on the front shaft of the gang condenser. The setting of the gang condenser is read on this scale, which is calibrated in degrees. The correct setting of the gang in degrees, for each alignment frequency, is given in the alignment table.

As the first step in r-f alignment, check the position of the drum. The 180° mark on the drum scale must be vertical, and directly over the center of the gang-condenser shaft when the plates are fully meshed. The surface of the drum must be flush with the end of the gang-condenser shaft. The drum is held to the shaft by means of two set screws, which must be tightened securely when the drum is in the correct position.

Pointer for Calibration Scale.—Improvise a pointer for the calibration scale by fastening a piece of wire to the gang-condenser frame, and bend the wire so that it points to the "180°" mark on the calibration scale when the plates are fully meshed.

Dial-Indicator Adjustment.—After fastening the chassis in the cabinet, attach the dial indicator to the drive cable with



indicator at the left-hand marks on the dial scale, and gang condenser fully meshed. The indicator has a spring clip for attachment to the cable.

Steps	Connect the high side of test-osc. to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output
1	6K7 I-F grid cap, with 300 ohm resistor from cap to chassis	455 kc	——	L17 and L18* (3rd I-F Trans.)
2	6L7 1st-Det. grid cap, with 300 ohm resistor from cap to chassis, regular grid lead removed from cap	455 kc	Fidelity control counter-clockwise (sharp)	L23 and L22 (2nd I-F Trans.) and L16 and L15** (1st I-F Trans.)
3	Antenna terminal (A), in series with 300 ohms	6.1 mc	6.1 mc (28.2°) "B" band	C37 (osc.)*** C10 (det.)† C3 (ant.)
4	Antenna terminal, in series with 300 ohms	20 mc	20 mc (22.5°) "C" band	C35 (osc.)††
5	Antenna terminal, in series with 200 mmf.	1,500 kc	1,500 kc (32°) "A" band	C38 (osc.)
6	Antenna terminal, in series with 200 mmf.	600 kc	600 kc (143.8°) "A" band	L13 (osc.)
7	Repeat steps 5 and 6.			
8	Adjust C39 so that it projects approximately 15/16-inch above top of chassis.			
9	Antenna terminal, in series with 200 mmf.	175 kc	175 kc (121.3°) "X" band	L14 (osc.)
10	Antenna terminal, in series with 200 mmfd.	360 kc	360 kc (30.2°) "X" band	C39 (osc.) C11 (det.) C1 (ant.)
11	Repeat oscillator adjustments in steps 9 and 10.			

* Adjust for coincident response curves when using oscillograph.

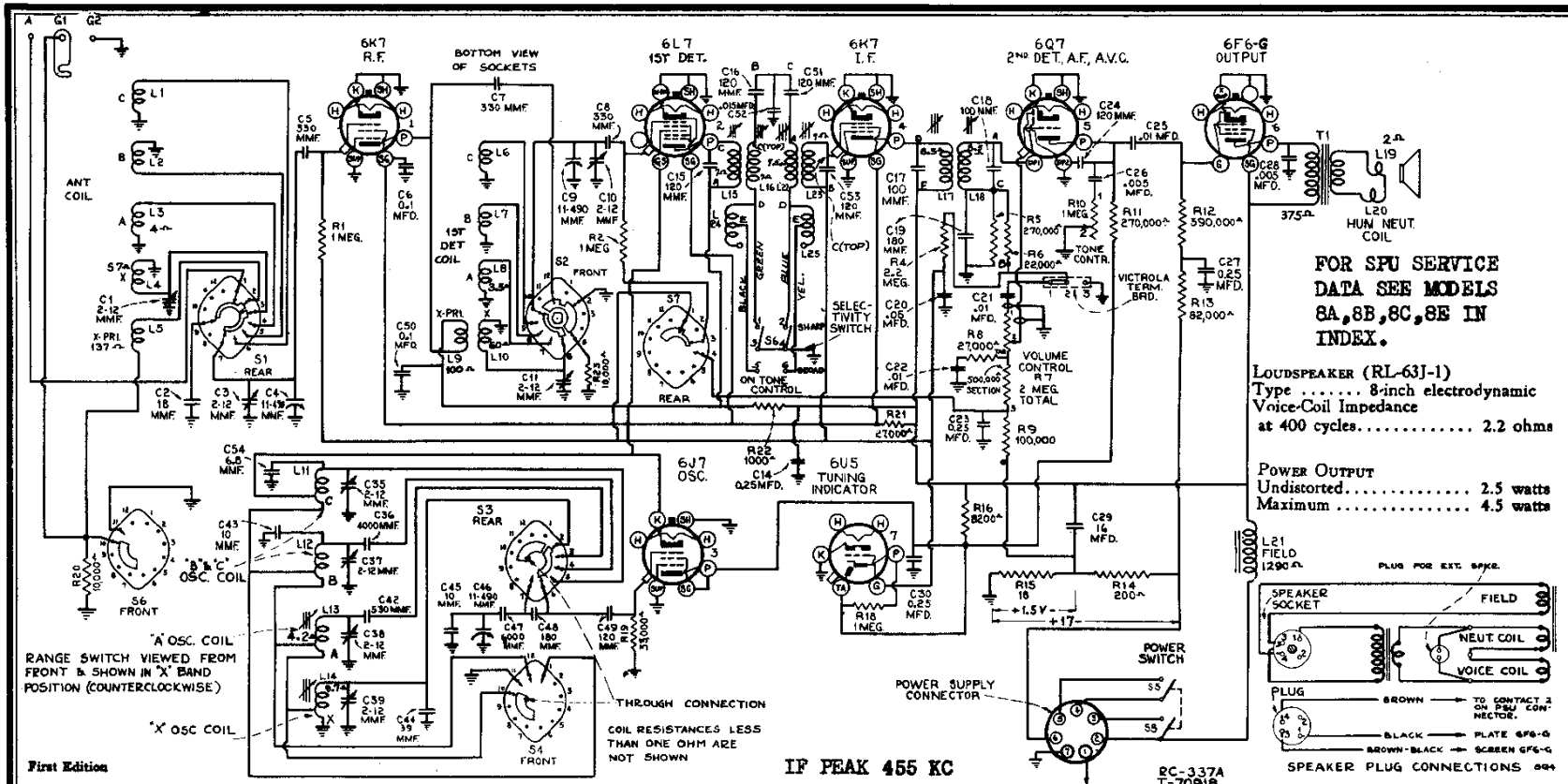
** Readjust L23, L22, L16, and L15 several times to secure coincident curves. Turn fidelity control full clockwise (broad) and check response, which should be symmetrical, and with **greater** gain than on sharp.

*** Use **minimum** capacity peak if two peaks can be obtained with C37.

† Rock the gang condenser slightly and use **maximum** capacity peak if two peaks can be obtained with C10. Check to determine that C37 has been adjusted to the correct peak by turning receiver to 5.19 mc (50°) where a weaker signal should be received.

†† Use **minimum** capacity peak if two peaks can be obtained, and check to determine that C35 has been adjusted to the correct peak by turning the receiver to 19.09 mc (27½°) where a weaker signal should be received.

NOTE: The oscillator tracks 455 kc **above** the signal on all bands.



First Edition

Pilot Lamps (2) ..... Mazda No. 44, 6.3 volts, .25 amp.

FREQUENCY RANGES
Long Wave ("X" Band)..... 150-400 kc (2,000-750 m)
Standard Broadcast ("A" Band). 530-1,720 kc (566-174 m)
Medium Wave ("B" Band)..... 2.3-7.0 mc (130-42.8 m)
Short Wave ("C" Band)..... 7.0-22 mc (42.8-13.6 m)

Precautionary Lead Dress.—

1. Dress all leads and wiring parts away from 6J7 oscillator grid.
2. Twist together the two leads from the 1st i-f transformer to the fidelity switch. Also the two leads from the 2nd i-f transformer.
3. Dress all leads away from the detector coil.
4. Dress leads from the detector coil to the range switch (contacts 7 and 8 on detector section of switch) away from the detector trimmer C10.

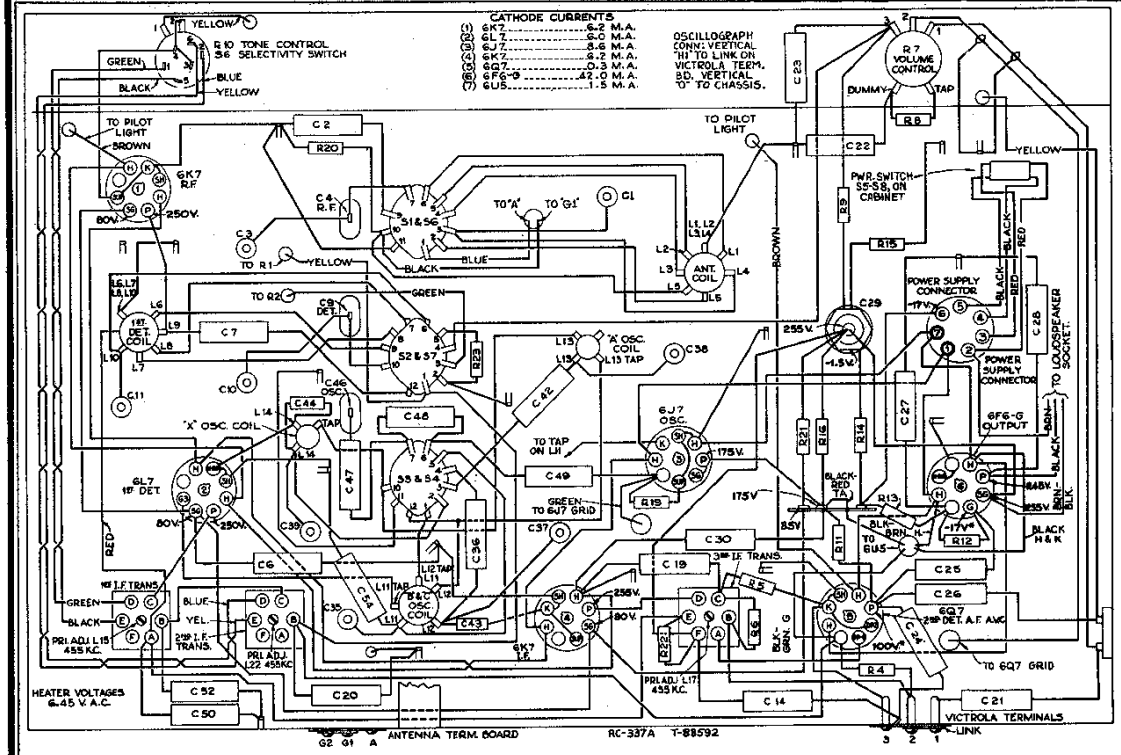
In the event that a Stock No. 9824 switch is not available, a double-pole—double-throw toggle switch may be used, connecting it as shown above.

The radio volume control may be used to regulate the volume of the record player.

Victrola Attachment (Record Player).—Terminals are provided on the rear of the chassis for convenient connection to a Victrola Attachment (record player) such as the RCA R-93 and R-94 series. A stock No. 9824 switch may be used to change from radio to record player as shown above.

RCA MFG. CO., INC.

MODEL 8Q4
Ch.RC-337A
Schematic,Lead Dress
Phono.Data



Bottom View of Chassis, with R-F Wiring Diagram and Socket Voltages

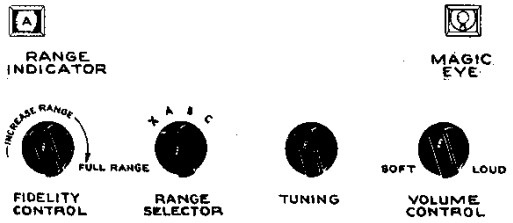
Measurements made to chassis unless otherwise indicated, with set tuned to quiet point and volume control at minimum. Values should hold within approximately ±20% with 117-volt a-c supply.

* **NOTE:** Values with star (*) are operating voltages in circuits with high series-resistance. The actual measured voltages will be lower, depending on the voltmeter loading.

Miscellaneous Service Data

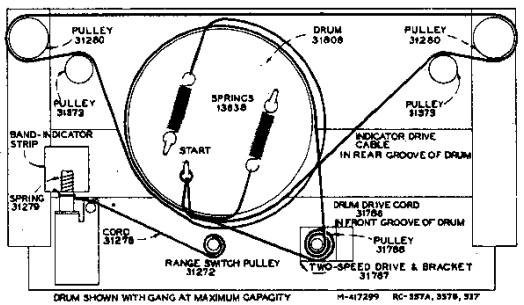
Plug for Extension Loudspeaker.—A two-contact female socket, equipped with a male plug, is connected across the secondary of the output transformer on the loudspeaker to facilitate the connection of an extension loudspeaker if desired. A permanent-magnet dynamic speaker, with voice-coil impedance of **not less than 2 ohms** is recommended. The voice coil of the extension speaker should be connected by means of two-conductor cable (such as is used on electric appliances) to the male plug. This cable may be any desired length up to several hundred feet. With a long run, it is advisable to use heavier cable. An extension speaker with 2-ohm voice coil will receive approximately half the power output of the receiver. With a higher-impedance voice coil, the percentage of power delivered to the extension speaker will be decreased. (A high-impedance magnetic-type speaker may be used in conjunction with a suitable coupling transformer such as RCA Stock No. 7853.) The RCA MI-6248 Alnico 8-inch diameter permanent-magnet dynamic loudspeaker with 2-ohm voice coil, and 5-watt power-handling capacity is recommended. This speaker may be housed in the RCA MI-6292 sloping-front walnut-finished wood housing.

Antenna Connections.—Three terminals ("A," "G1," and "G2") are provided on the rear of chassis. Connect the antenna to "A." Connect "G1" to a nearby ground. A link connects "G1" and "G2." In case of electrical interference (especially on "X" band) open the link and connect "G2" separately to ground. This also applies when a D-C power supply is used.



Location of Controls

A toggle-type power switch is mounted on the right-hand side of the cabinet



Arrangement of Drive Cords for Tuning Condenser and Dial Indicator

Power Supply Units

Model 8Q4 has a seven-prong connector for connection to a separate power supply unit. Units are available in different ratings for a-c and d-c operation, as listed under "Power Supply Ratings" in the electrical specifications.

The d-c power supply unit (PSU 8E) is too large to be mounted inside the cabinet and may be placed on the table behind the receiver, or in any other convenient location that permits plugging into the connector on the receiver chassis.

Service data, diagrams, and replacement parts lists for the power supply units are printed in separate service data sheets, which should be referred to for further information.

POWER SUPPLY RATINGS

	Volts	Cycles
A-C Ratings		
With PSU 8A	105-125	50-60
With PSU 8B	105-125	25-60
With PSU 8C	105-130, 140-160, 200-225, 225-250	50-60
D-C Rating		
With PSU 8E	105-125, 210-250	D-C