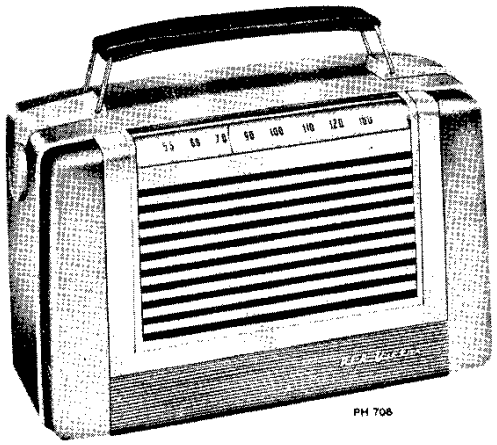
R.C.A. Victor Co., Inc.

Model: 2BX63	Chassis:	Year: Pre 1955
Power:	Circuit:	IF:
Tubes:		
Bands:		

Resources
Riders Volume 23 - RCA 23-69
Riders Volume 23 - RCA 23-70
Riders Volume 23 - RCA 23-71
Riders Volume 23 - RCA 23-72

MODEL 2BX63, Ch. RC-1115



Specifications

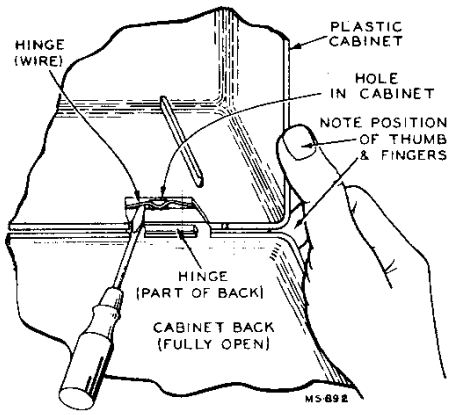
Tuning Range ..... 540-1,600 kc
Intermediate Frequency ..... 455 kc
Power Supply Rating
Power Line Operation
115 volts, d. c. or 50 to 60 cycles a. c. ..... 15 watts
or
Battery Operated ..... using RCA VS 057W Battery
(Average battery life — 100 hrs. intermittent service)
Battery current ..... "A" 50 ma., "B" 13 ma.

Tube Complement
(1) RCA 1T4 ..... R.F. Amplifier
(2) RCA 1R5 ..... Converter
(3) RCA 1T4 ..... I.F.-Amplifier
(4) RCA 1U5 ..... Det. — AVC — 1st A.F.
(5) RCA 3V4 ..... Output
A selenium rectifier is used.

Weight (Approx.)
Without battery ..4 lb. 10 oz. With battery ..7 lb. 12 oz.
Power Output
Undistorted ..... 170 watt
Maximum ..... 320 watt
Loudspeaker ..... 4 in. P.M.
Voice Coil impedance ..... 3.2 ohms at 400 cycles
Cabinet Dimensions
Height ....8 in. Width ....12½ in. Depth ....5⅝ in.

To Remove Hinges

Remove back from cabinet as described at right. Spread the hinge apart to remove it from the cabinet back.



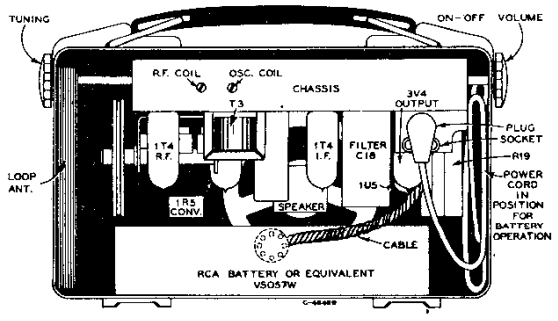
Removal of Cabinet Back

To Remove Chassis:

1. Pull out battery and disconnect battery plug.
2. Unsolder the two loop antenna leads.
3. Remove the two large screws (under handle) in the top of the case.

To Remove Cabinet Back

With the back fully open, grip the cabinet as illustrated. Insert a screwdriver under one hinge and pry the center of the hinge out of the opening in the cabinet while maintaining pressure on the back with the fingers and on the cabinet with the thumb. Repeat this procedure with the other hinge. Pull the back straight to the rear using both hands.



Rear View With Back Removed

MODEL 2BX63, Ch. RC-1115

Alignment Procedure

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 oscillator output as low as possible to avoid AVC action.

Battery operation of the receiver is preferable during alignment; on AC operation an isolation transformer (117v./117v.) may be necessary for the receiver if the test oscillator is also AC operated.

Dial Pointer Position — With the tuning condenser fully meshed the center of the dial pointer should be in line with the score mark on the chassis.

Step	Connect High Side of Sig. Gen. to —	Sig. Gen. Output	Dial Pointer Setting	Adjust for Max. Output
1	Disconnect loop—remove chassis—remove bottom plate.			
2	Pin #6 of 1T4 I.F. Amplifier thru .005 mf.	455 kc	Quiet point near 1600 kc	2nd I.F. Trans. T2 Top & Bottom
3	Pin #6 of 1R5 Converter thru .005 mf.			1st I.F. Trans. T1 Top & Bottom
4	Replace bottom cover and install chassis in cabinet. Re-connect loop.			
5	Short wire placed near loop for radiated signal	1620 kc	min. cap.	1600 kc osc. trimmer C1-3T
6		1400 kc	1400 kc Signal	1400 kc r.f. & ant. trimmers*
7		Connect a 22,000 ohm resistor in parallel with r.f. tuning cond. C1-2		
8		600 kc	600 kc Signal	L4 osc. core* while rocking gang
9		Remove the 22,000 ohm resistor from r.f. tuning cond. C1-2.		
10		600 kc	600 kc Signal	L3 r.f. core
11	Repeat Steps 5, 6, 7, 8, 9 and 10.			

* The position of the battery affects loop inductance. The battery should be in place during steps 5 to 11.

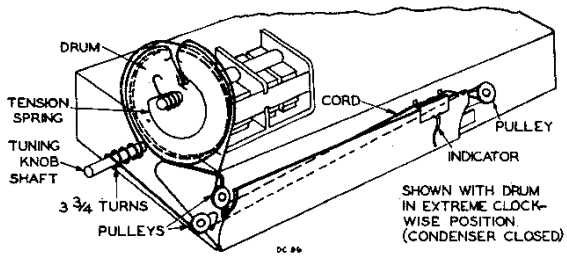
Critical Lead Dress

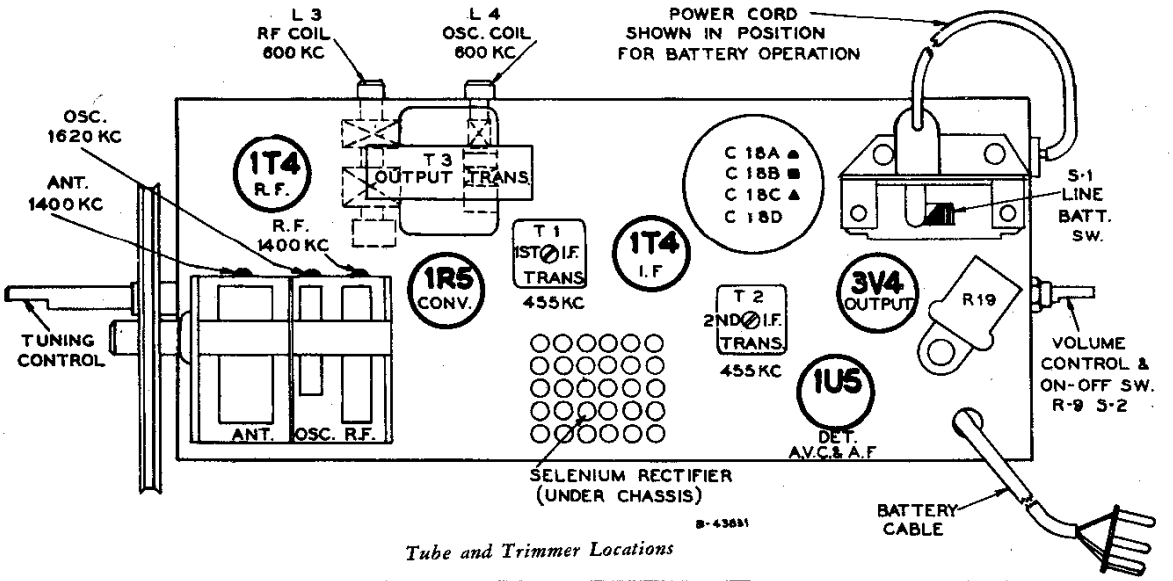
1. Dress all filament leads next to chassis.
2. Use short pigtail leads on components to V1, Pin 6.
3. Dress gang leads direct to avoid excess lead length.
4. Dress loop leads away from gang tuning drum.
5. Dress capacitors C3, C4, C6 for RF shielding.
6. Use short pigtail lead on C21 to V3-2 and dress away from Pin 6.
7. Dress capacitors C13 and C17 direct and down to base.

CAUTION.—

Do not remove any tubes from the chassis with the set operating and the plug connected to the power line. Damage to tubes may result.

Dial-Indicator and Drive Mechanism





Tube and Trimmer Locations

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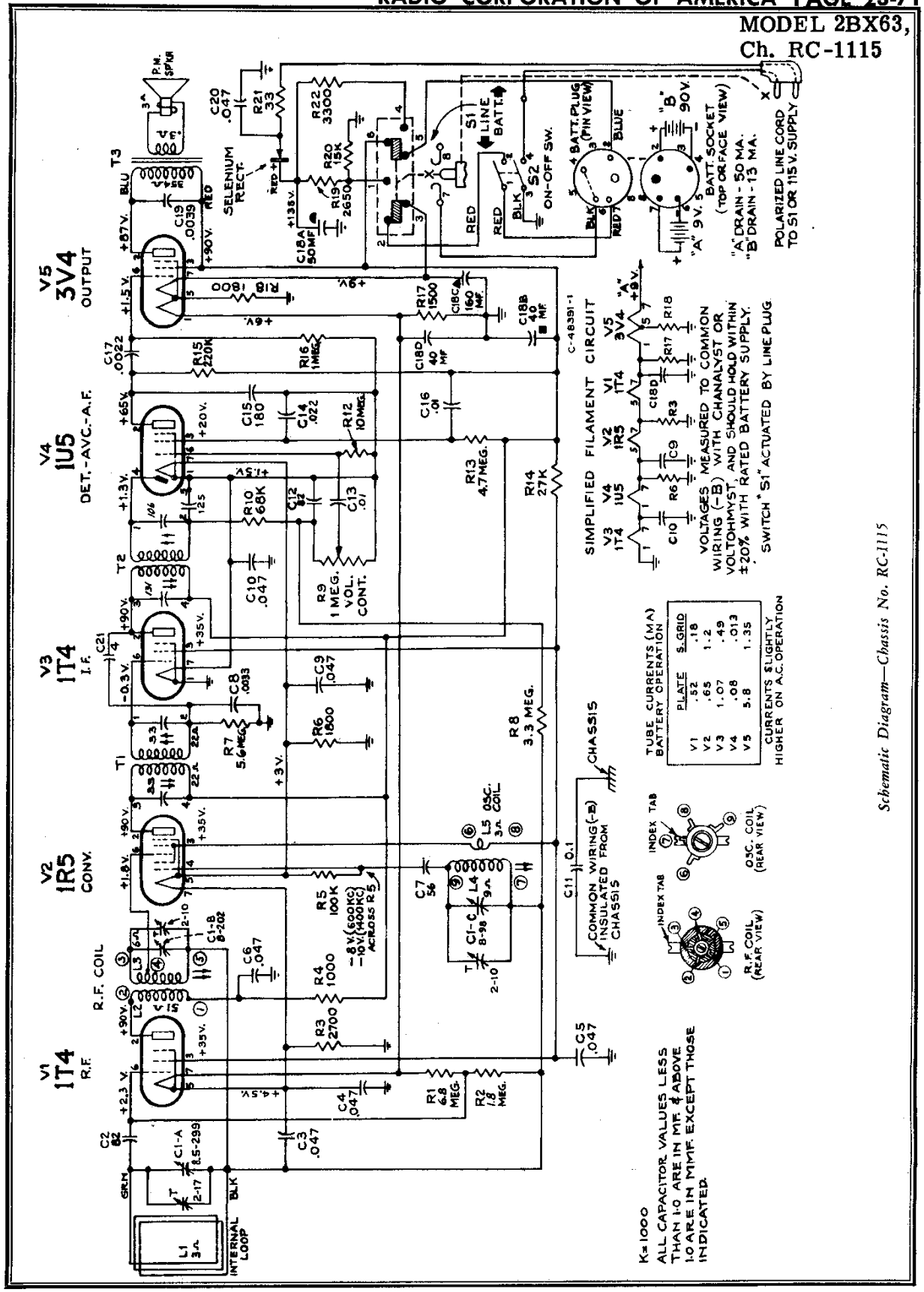

Schematic Diagram—Chassis No. RC-1115

MODEL 2BX63, Ch. RC-1115

STOCK No.	DESCRIPTION
	CHASSIS ASSEMBLIES RC-1115
77054	Capacitor—Variable tuning capacitor complete with drive drum C1A, C1B, C1C
73153	Capacitor—Ceramic, 4 mmf. C21
39622	Capacitor—Mica, 56 mmf. C7
71514	Capacitor—Ceramic, 82 mmf. C2, C12
51416	Capacitor—Mica, 180 mmf. C15
76659	Capacitor—Electrolytic comprising 1 section of 50 mfd., 150 volts, 1 section of 40 mfd., 150 volts, 1 section of 160 mfd., 25 volts and 1 section of 40 mfd., 25 volts C18A, C18B, C18C, C18D
73595	Capacitor—Tubular, paper, .0022 mfd., 600 volts .. C17
73795	Capacitor—Tubular, paper, .0033 mfd., 600 volts .. C8
73796	Capacitor—Tubular, paper, .0039 mfd., 600 volts .. C19
73561	Capacitor—Tubular, paper, .01 mfd., 400 volts C13, C16
73562	Capacitor—Tubular, paper, .022 mfd., 400 volts C14
73558	Capacitor—Tubular, paper, .047 mfd., 200 volts C4, C5, C9, C10
73553	Capacitor—Tubular, paper, .047 mfd., 400 volts C3, C6
75071	Capacitor—Tubular, moulded paper, .047 mfd., 400 volts C20
73551	Capacitor—Tubular, paper, oil impregnated, 0.1 mfd., 400 volts C11
73935	Clip—Mounting clip for I.F. transformer
73114	Coil—Oscillator coil complete with adjustable core L4, L5
74992	Coil—RF coil complete with adjustable core .. L2, L3
71041	Connector—5 contact male connector or battery cable
72776	Connector—Single contact pin connector or output transformer leads (2 req'd)
75474	Connector—Single contact male connector for output transformer leads
74285	Control—Volume control and power switch ... R9, S2
72953	Cord—250' Drive Cord Reel (approx. 50" required)
70022	Cord—Power cord and plug
77051	Dial—Metal dial scale complete with (3) pulleys
74838	Grommet—Power cord strain relief (1 set)
72283	Grommet—Rubber grommet for mounting variable capacitor
18469	Plate—Bakelite mounting plate for electrolytic
77053	Pointer—Station selector pointer
72602	Pulley—Drive cord pulley
74322	Rectifier—Selenium rectifier
74319	Resistor—Wire wound, 2650 ohms, 7 watts R19
	Resistor—Fixed, composition:—
514033	33 ohms, ±20%, 1 watt R21
504210	1000 ohms, ±20%, ½ watt R4
503215	1500 ohms, ±10%, ½ watt R17
503218	1800 ohms, ±10%, ½ watt R6, R18
503227	2700 ohms, ±10%, ½ watt R3
513233	3300 ohms, ±10%, 1 watt R22
504315	15,000 ohms, ±20%, ½ watt R20
503327	27,000 ohms, ±10%, ½ watt R14
504368	68,000 ohms, ±20%, ½ watt R10
504410	100,000 ohms, ±20%, ½ watt R5
503422	220,000 ohms, ±10%, ½ watt R15
504510	1 megohm, ±20%, ½ watt R16
503518	1.8 megohm, ±10%, ½ watt R2
503533	3.3 megohm, ±10%, ½ watt R8
504547	4.7 megohm, ±20%, ½ watt R13
503556	5.6 megohm, ±10%, ½ watt R7
503568	6.8 megohm, ±10%, ½ watt R1
504610	10 megohm, ±20%, ½ watt R12
73117	Socket—Tube socket, 7 pin, miniature
76368	Spring—Drive cord spring
71039	Switch—"Line-Battery" switch S1
73129	Transformer—First I.F. transformer complete with adjustable cores T1
75487	Transformer—Second I.F. transformer complete with adjustable cores T2
71047	Transformer—Output transformer T3
33726	Washer—"C" washer for tuning knob shaft
	SPEAKER ASSEMBLIES 971495-7W RL-108B10
77055	Speaker—4" P.M. speaker complete with cone and voice coil (3.2 ohms)
	MISCELLANEOUS
77068	Antenna—Antenna loop assembled to polystyrene frame and support L1
77060	Back — Cabinet back — polystyrene — complete with strikes
77061	Cap—Carrying handle cap and chassis support
77065	Case—Case front—less handle, handle support, caps, links and chassis mounting screw
77064	Emblem—"RCA Victor" emblem
77057	Eyelet—Metal eyelet for mounting loop assembly
77066	Grille—Metal grille
77056	Grommet—Rubber grommet for mounting loop assembly
77063	Handle—Carrying handle
74790	Hinge—Cabinet hinge (2 req'd)
77248	Knob—Control knob
77062	Link—Carrying handle link
77013	Nut—Speed nut for fastening "RCA Victor" emblem
76671	Screw—#6 x ½" cross recessed self-tapping round head screw for mounting loop
77058	Screw—#8-32 x 7/16" cross recessed pan head machine screw for mounting loop
74734	Spring—Spring clip for knobs
77467	Washer—Knob washer—felt
77067	Window—Clear vinylite dial window

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