



MODEL 2QX53

SERVICE DATA – 1955 NO. 5 –

GENERAL SERVICE DEPARTMENT RCA VICTOR COMPANY, LTD MONTREAL, CANADA

ELECTRICAL AND MECHANICAL SPECIFICATIONS

Power Output

SPECIFICATIONS

Frequency Kanges
Standard Broadcast ("A" Band)520-1605 kc (577-187 m)
Medium Wave ("B" Band)2.2-7 mc (136-42.8 m)
Short Wave ("C" Band)7-22 mc (42.8-13.7 m)
Intermediate Frequency455 kc
Tube Complement
(1) RCA 12BE6 Converter
(2) RCA 6BJ6I.F. Amplifier
(3) RCA 12AV6Det., A.V.C. and A.F. Amplifier
(4) RCA 50C5 Output
(5) RCA 35W4 Rectifier
Dial Lamp (1)Mazda No. 47, 6-8 volts, .15 amp.

Power Supply Ratings

. D

RC-1124—105-125 volts D.C. or 25-60 cycles A.C._30 watts RC-1124A—210-250 volts D.C. or 25-60 cycles A.C._60 watts

CRITICAL LEAD DRESS Model 2QX53

- Dress C2 away from antenna coil windings and away from R20.
- 2. All wires from the antenna and oscillator coil are critical for length and should not be changed.
- Dress the oscillator capristor (C13 & R4) away from the chassis base.
- 4. Dress all filament, —B and +B leads close to chassis base.
- Dress lead from J1 to S1-B rear terminal No. 2 close to chassis base and away from V1 filament leads (117 volt version only).
- 6. Dress R5, R18, and R19 away from all leads.
- Dress leads from V5 to R20 under pilot lamp lead cable clamp and close to chassis.

Undistorted			1.0	watt
Maximum			1.6	watts
Loudspeaker				
Type6 ¹ / ₂ "	perman	ent-magn	et dyn	amic
Voice-coil impedance	3.2	ohms at	400 c	ycles

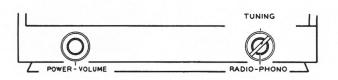
Cabinet Dimensions

Height _______95% inches (24.5 cm)

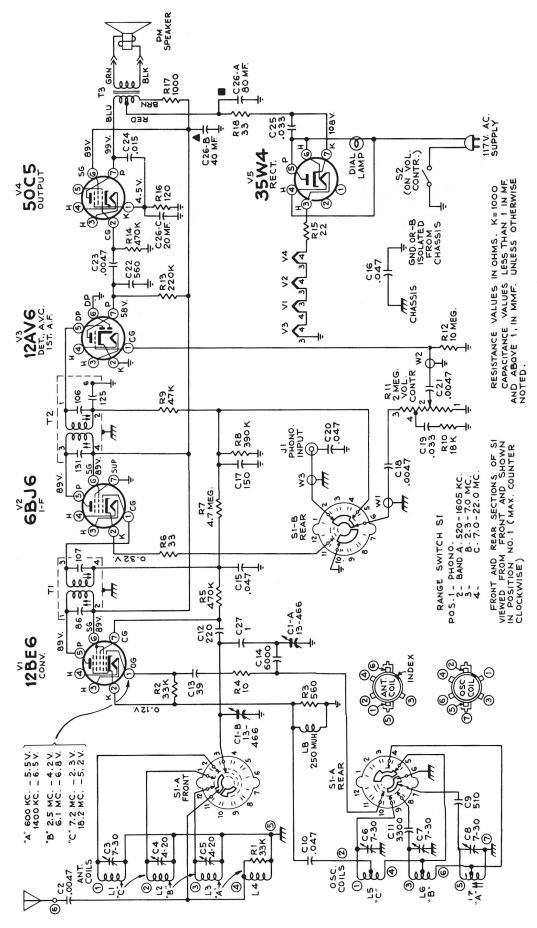
Width _______15 1/16 inches (38.3 cm)

Depth _______67% inches (17.5 cm)

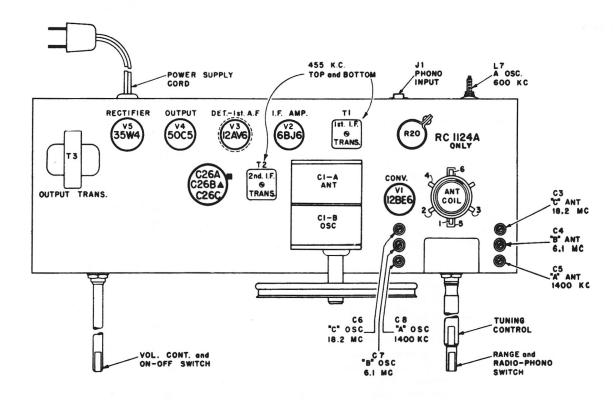
POWER SUPPLY POLARITY—For operation on D.C. the power plug must be inserted in the outlet for correct polarity. If the set does not function, reverse the plug. On A.C. reversal of the plug may reduce hum.



Location of Controls



Schematic Diagram



Tube and Trimmer Locations

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 low to avoid a-v-c action.

NOTE—If the test-oscillator is A.C. operated it may be necessary to use an isolation transformer (117v/117v) for the receiver during alignment.

Calibration Scale-

Improvise a pointer made from a piece of wire attached to the tuning capacitor frame. With the tuning capacitor fully meshed bend the wire so the end will point to the 180° calibration mark on the tuning drum. The correct setting of the gang in degrees, for each alignment frequency, is given in the alignment table.

Dial-Indicator Adjustment—After fastening the chassis in the cabinet, attach the dial indicator to the drive cable with indicator at the end calibration mark, and gang condenser fully meshed. The indicator has a clip for attachment to the cable.

Order		TEST OSCILLATOR			RECEIVER						
of Alignme		Connect "HI" Side To	Connect "LO" Side To	Dummy • Antenna	Frequency Setting	Range Selector	Receiver Dial Setting	Circuit to Adjust	Adjustment Symbols	Notes	
-t-1	1	6BJ6 Grid Pin I	GND	. OI MFD.	455 KC	'A' Band	'HI' End	2 nd 1.F. Trans.	T-2	Max. Out.	
Align- ment	2	12BE6 Grid Pin 7	Same	Same	Same	Same	Same	Ist I.F. Trans.	T- *	Same	
٦g٠	3	Ant. Lead	Same	200 MMF	1400 KC	Same	1400 KC	Osc.	C-8	Same	
A" Band Align- ment	4	Same	Same	Same	Same	Same	Same	Ant.	C-5	Same	
	5	Same	Same	Same	600 KC	Same	600 KC	Osc.	L-7	Same	
E	6	Repeat Steps 3, 4 & 5.									
'B" Band Align- ment	7	Ant. Lead	GND	300 Ohms	6.1 MC.	'B' Band	6.1 MC	Osc.	C-7 †	Same	
	8	Same	GND	Same	Same	Same	Same	Ant.	C-4 ‡	Same	
A I A	9	Repeat Steps 7 &	8.					•			
Band ign-	10	Ant. Lead	GND	300 Ohms	18.2 MC	'C' Band	18.2 MC	0sc.	C-6 †	Same	
" Ba ligr	11	Same	Same	Same	Same	Same	Same	Ant.	C-3 ‡	Same	
Al ae	12	Repeat Steps 10	& 11.								

^{*} Do not Re-Adjust T-2

[†] Use minimum capacity peak if two peaks can be obtained.

[‡] Rock Gang.

REPLACEMENT PARTS LIST FOR MODEL 2QX53

Insist on Genuine Factory Tested Parts, which are readily identified and may be purchased from Authorized Dealers.

Stock Number	Description	Stock Number	Description
	CHASSIS ASSEMBLY	70251	22 ohms, 1 watt for RC 1124 (R15)
78064	Bracket - Drive cord bracket and pulley assembly.	75968	160 ohms, 5 watt for RC 1124A (R16)
36397	Calibrator - Drive drum calibrator		Resistors - Fixed composition
78057	Capacitor - Variable tuning		33 ohms, ± 10%, 1/2watt (R6)
	capacitor complete with drive drum (C1A, C1B)		33 ohms, ± 10%, 1/2watt (R18) 120 ohms, ± 10%, 1/2watt (R17)
78067	Capacitor - Capacitor (39 mmf) and		1,000 ohms, ±10%, 1watt (R17)
	resistor (10) ohms assembly (C13, R4)		18, 000 ohms, ±10%, 1/2watt (R10) 33, 000 ohms, ±10%, 1/2watt (R1
8 0	Capacitors-Adjustable, mica:		± R2)
75967	4-20 mmf. (C4, C5)		47,000 ohms, $\pm 10\%$ 1/2watt (R9)
75189	7-30 mmf. (C3, C6, C7, C8)		220, 000 ohms, ± 10%, 1/2watt (R13)
	Capacitors - Fixed, ceramic, in-		390, 000 ohms, ±10%,1/2watt (R8)
	sulated, High "K":		470, 000 ohms, $\pm 10\%, 1/2$ watt (R5,
	150 mmf \pm 20%, 500 volts (C17)		R14)
	220 mmf \pm 20%, 500 volts (C12)		4. 7 megohm, $\pm 10\%$, $1/2$ watt (R7)
	$560 \text{ mmf} \pm 10\%, 500 \text{ volts (C22)}$		10 meholm, ±10%, 1/2 watt (R12)
	Capacitor - Fixed, headed-lead, 1	78063	Shaft - Tuning knob shaft
-	mmf, \pm 10%, 500 volts (C27)	73584	Shield - Tube shield for 12AV6 tube
	Capacitors - Fixed, mica:	73117	Socket - Tube socket, 7 pin,
71932	510 mmf, 500 volts (9)		minature, wafer
39664	3300 mmf, 500 volts (C11)	77566	Socket - Lamp socket
78066	6000 mmf, 500 volts (C14)	78060	Switch - Phono-range switch (S1)
72281	Capacitor - Electrolytic,	74918	Transformer - 1st I. F. transformer
	comprising 1 section of 80 mfd.,		complete with adjustable cores
	150 volts, 1 section of 40 mfd.,		(T1)
	150 volts and 1 section of 20	73254	Transformer - 2nd I. F. transformer
1	mfd, 25 volts (C26A, C26B,		complete with adjustable cores
	C26C)	78027	Transformer - Output transformer
1	Capacitors - Fixed, moulded paper:		(T3)
	.0047 mfd., 600 volts (2, C18,		Speaker Assemblies
	C21, C23)	70000	
1	. 015 mfd., 600 volts (C24)	78069	Speaker - 6 1/2" P. M. speaker com-
	. 033 mfd., 400 volts (C19)	N .	plete with cone and voice coil
	. 033 mfd., 1000 volts (C25)		(3.2 ohms)
1	.047mfd., 400 volts (C10, C15,		Miscellaneous
70005	C16, C20	70070	Book Cohinet hook
73935	Clip - Mounting clip for I. F. trans-	78072	Back - Cabinet back
20050	former	78070	Board - Speaker baffle board and
78058	Coil - Antenna coil - "A", "B" and	770500	grille cloth
50050	"C" bands (L1, L2, L3, L4)	Y2530	Cabinet - Plastic cabinet - maroon.
78059	Coil - Oscillator coil - "A", "B",	78080	Decal - Function decal for phone-
72260	and "C" bands (L6, L5, L7)	78071	range switch Dial - Dial Scale
73268	Coil - Peaking coil (250 muh) (L8, R3)	77033	Emblem - "RCA Victor" emblem
35787	Connector - Phono input connector	78074	Guide - Station selector pointer guide
20101	(J1)	10014	rail
78061	Control - Volume and power switch	78078	Knob - Phono-range switch
10001	(R11, S2)		knob - maroon (inner)
S-4313	Cord - Drive cord (approx. 42"	78077	Knob - Tuning control knob - maroon
D. 1010	overall)	10011	(outer)
70392	Cord - Power cord and plug	78076	Knob - Volume control and power
72602	Pulley - Drive cord pulley		switch knob - maroon.
75962	Resistor - Fixed, ceramic, in-	31480	Lamp - Dial lamp - Mazda Type No.
	sulated, 375 ohms, \pm 10%, 25		47
I		11	
		78073	Pointer - Station elector pointer
	watts for RC 1124Å (R20) Resistor - Fixed, wire wound.	78073 78075	Pointer - Station eleector pointer Spacer - Pointer guide rail spacer.