

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

Model: 5Q2X

Chassis:

Year: Pre June 1940

Power:

Circuit:

IF:

Tubes:

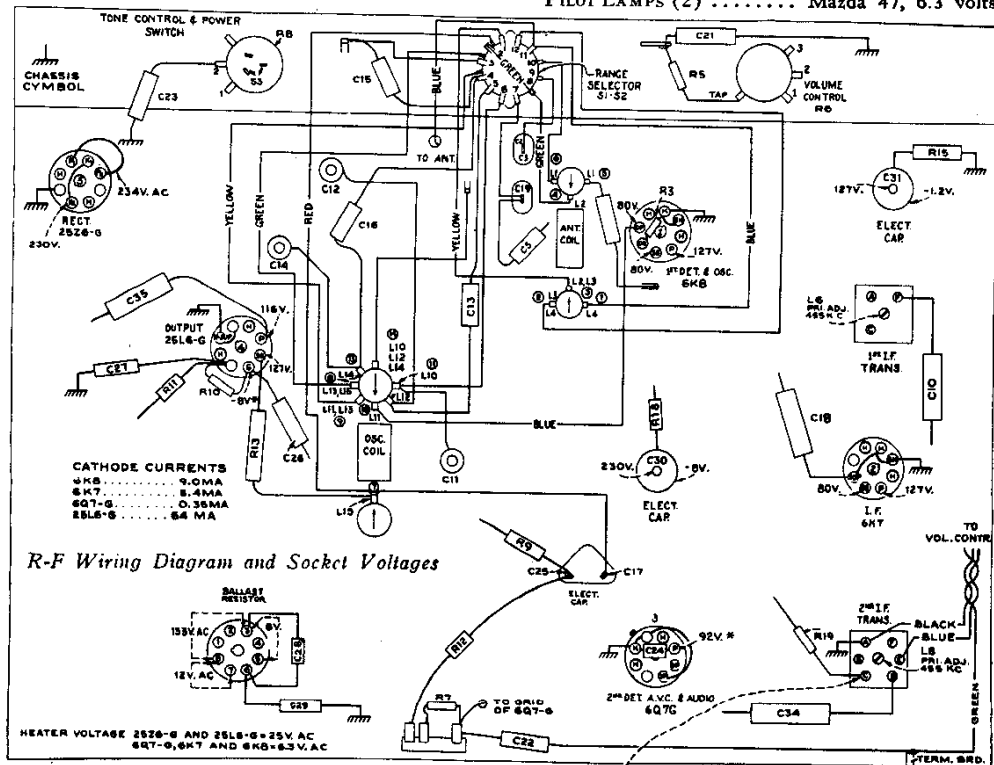
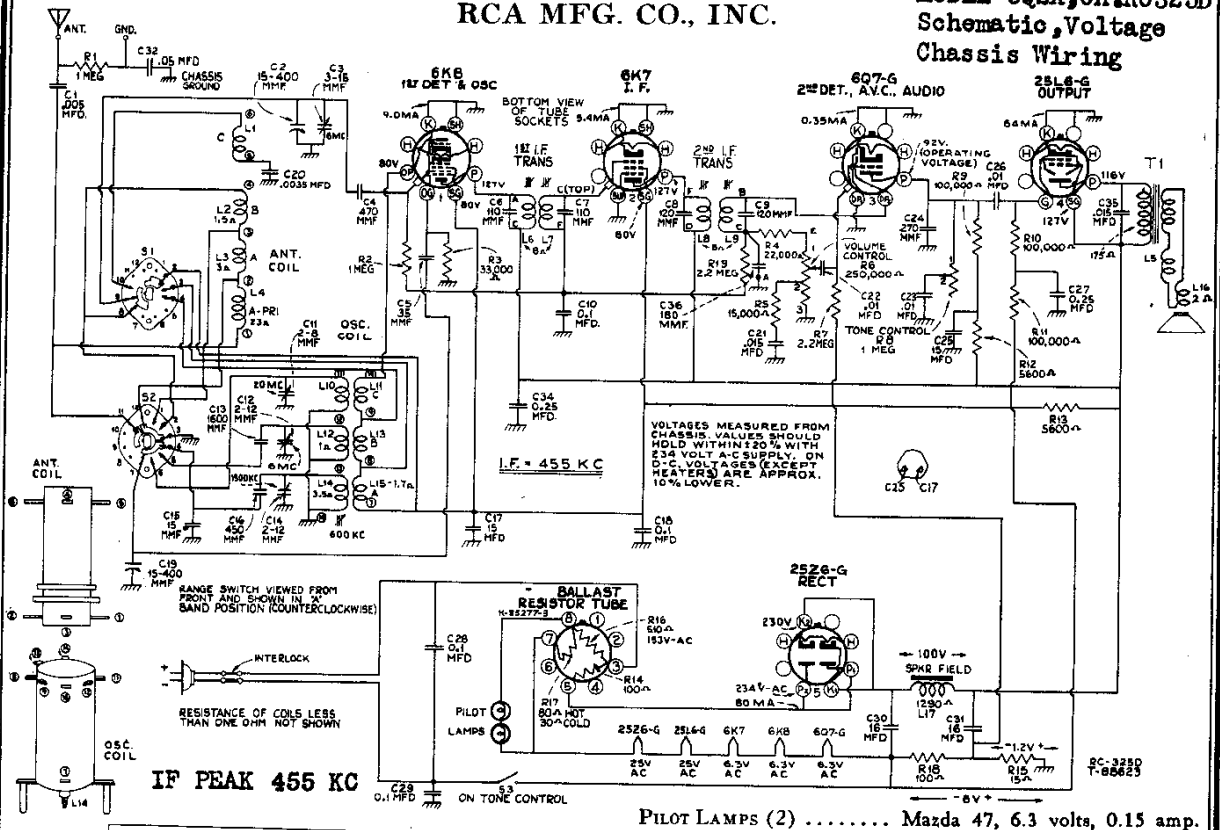
Bands:

### Resources

[Riders Volume 11 - RCA 11-11](#)

[Riders Volume 11 - RCA 11-12](#)

RCA MFG. CO., INC.

**MODEL 502X, Ch. RC325D**  
**Schematic, Voltage**  
**Chassis Wiring**


—1938— First Edition BOTTOM VIEW-REAR OF CHASSIS

Measurements made to chassis unless otherwise indicated, with set tuned to quiet point and volume control at minimum. Values should hold within ±20% with 234-volt a-c supply.

CATHODE RAY OSCILLOGRAPH (VERTICAL Y-TO THIS TERMINAL CONNECTIONS)

\* 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.

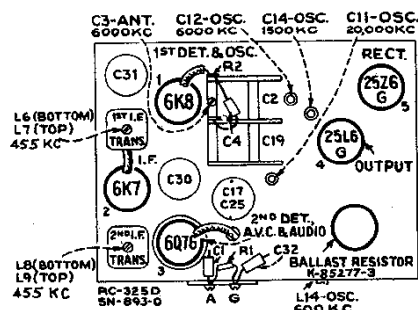
## MODEL 5Q2X

Alignment, Socket, Trimmers  
Lead Dress

RCA MFG. CO., INC.

## Precautionary Lead Dress.—

1. Leads on C20 ("C" band tracking condenser) must be as short as possible.
2. Dress blue lead from oscillator plate away from all parts.
3. Dress speaker cable away from ballast tube.

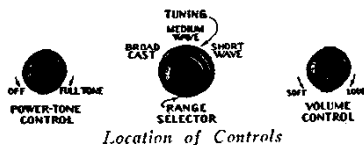


**CAUTION:** The chassis is connected to one side of the power supply. Avoid contact of chassis or parts to external ground when servicing.

4. Dress C22 (1st A.F. coupling condenser) against rear apron.

## 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, a similar reversal of the plug may reduce hum.



Location of Controls

## POWER OUTPUT RATING

(A-C Operation)	
Undistorted.....	1.7 watts
Maximum.....	2.7 watts
(D-C Operation)	
Undistorted.....	1.4 watts
Maximum.....	2.3 watts

## LOUDSPEAKER

Type..... 8-inch Electrodynamic  
V.C. Impedance..... 2.2 ohms at 400 cycles

## POWER SUPPLY RATINGS

A-C Rating..... 200-250 volts 50/60 cycles, 115 watts  
D-C Rating..... 200-250 volts direct current, 105 watts

## 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 ground terminal, 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 dial pointer should be in line with the left-hand end of the dial scales. The pointer is soldered to the drive 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, in series with .01 mfd.	455 kc	"A" band, Quiet Point between 550-750 kc	L8 and L9 (2nd I-F Trans.)
2	6K8 det. grid cap, in series with .01 mfd.	455 kc		L8 and L7 (1st I-F Trans.)
3	Antenna Terminal in series with 300 ohms	6 mc	"B" band	C12 (osc.)* C3 (ant.)†
4	Antenna Terminal in series with 300 ohms	20 mc	"C" band	C11 (osc.)** (Rock In)
5	Antenna Terminal in series with 200 mmf.	600 kc	"A" band	L14 (osc.)
6	Antenna Terminal in series with 200 mmf.	1,500 kc	"A" band	C14 (osc.) (Rock In)
7	Repeat steps 5 and 6.			

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

† After adjusting C3, check to determine that C12 has been adjusted to the correct peak by tuning the receiver to approximately 5.09 mc, where a weaker signal should be received.

\*\* Use maximum capacity peak if two peaks can be obtained. Check to determine that C11 has been adjusted to the correct peak by tuning the receiver to approximately 20.91 mc, where a weaker signal should be received.

**NOTE:** The oscillator tracks 455 kc above the signal on "A" and "B" bands, and 455 kc below the signal on "C" band.

**Loudspeaker.**—To center the loudspeaker voice coil, first remove the front dust cover, then loosen the spider screws, insert three narrow feelers at equal distances in the gap, and tighten the spider screws. Remove the feelers, and fasten a dust cover in place with loudspeaker cement.

At Right—Connections and Colors of  
Speaker and Cable

