

# MANUAL OF 1939 MOST POPULAR SERVICE DIAGRAMS

## RCA Victor

### Models 9TX-21, -22, and -23

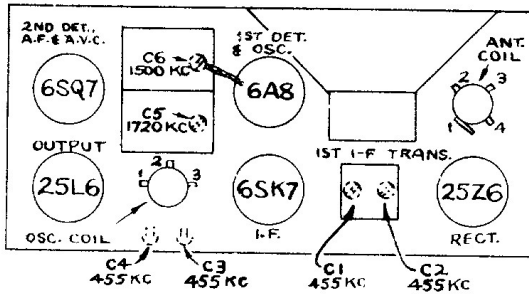
Chassis No. RC-403 RC-403 RC-403A

### Five-Tube, Single-Band, AC-DC Superheterodyne Receivers

#### Alignment Procedure

**Output Meter Alignment.**—Connect the meter across the voice coil, and turn the receiver volume control to maximum.

**Test-Oscillator.**—Connect the low side of the test-oscillator to the receiver chassis, through a .01 mfd. capacitor, and keep the output as low as possible. The antenna should be rolled up and kept at least one foot from chassis during alignment.



Trimmer Locations

Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output—
1	6A8 1st-Det. grid cap, in series with .01 mfd.	455 kc	Quiet point at 1,600 kc end of dial	C1, C2, C3, C4 (1st and 2nd I-F transformers)
2	Antenna term. of ant. trans. in series with 100 mmfd.	1,720 kc	Full clockwise (out of mesh)	C5 (oscillator)
3		1,500 kc	Resonance on 1,500 kc signal.	C6 (antenna)

- INTERMEDIATE FREQUENCY..... 455 kc
- POWER OUTPUT (125 volt, 60 cycle supply)
  - Undistorted..... 1.5 watts
  - Maximum..... 2.0 watts
- LOUDSPEAKER (39105-1)
  - Type..... 4-inch Electrodynamic

**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.

**Resistor in Power Cord.**—The power cord contains a resistor which becomes warm during operation.

**Antenna.**—The set is equipped with length of antenna wire. Do not connect the antenna to ground. If an outdoor antenna is used, it should not be longer than 100 feet, including lead-in. If it is longer, connect a 100 to 200 mmf. capacitor in series with the lead-in.

