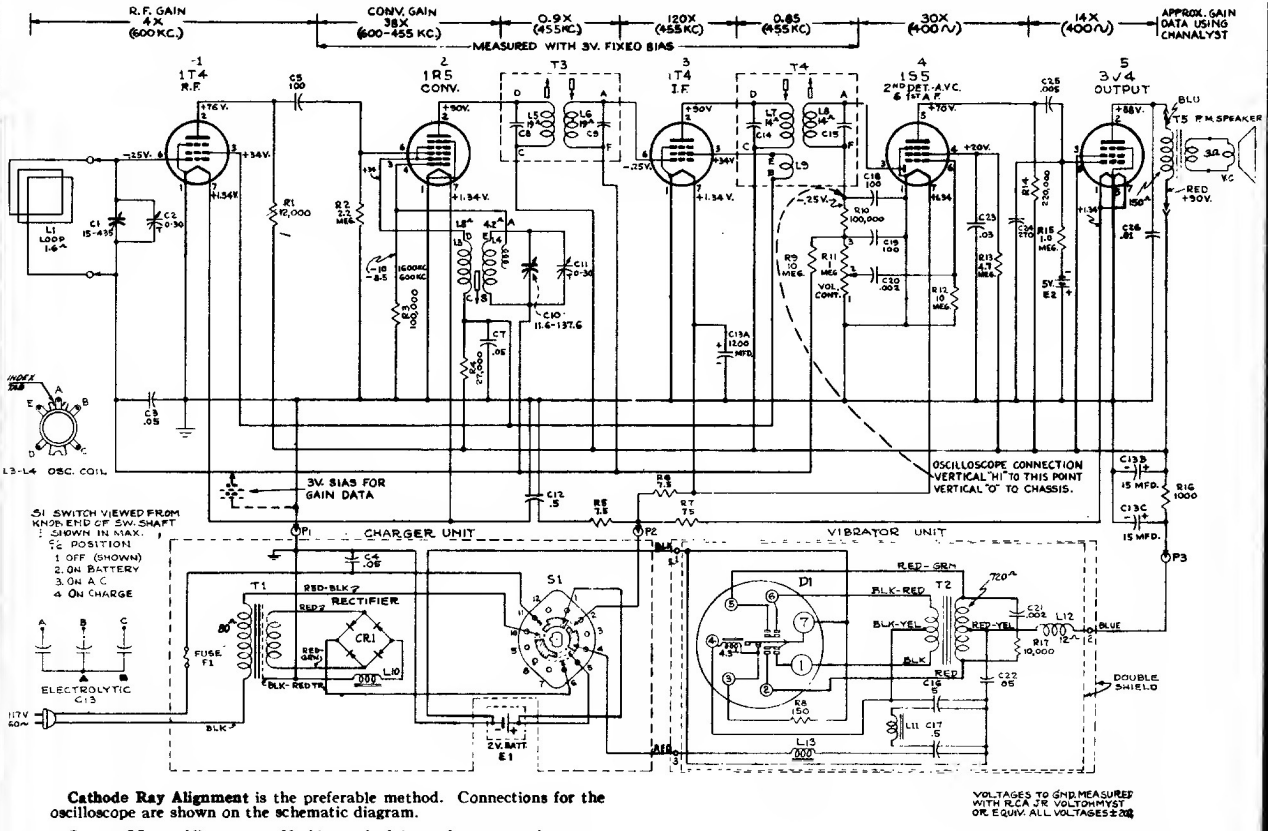



VOLTAGES TO GND. MEASURED WITH RCA JR. VOLTOHMYST OR EQUIV. ALL VOLTAGES ± 20%

**Cathode Ray Alignment** is the preferable method. Connections for the oscilloscope are shown on the schematic diagram.

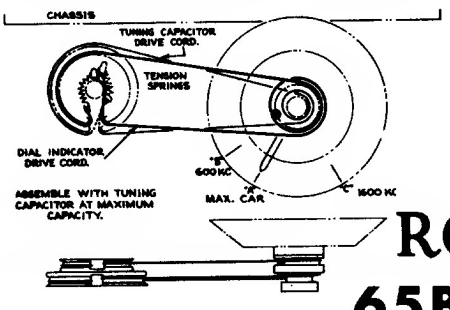
**Output Meter Alignment.**—If this method is used, connect the meter across the voice coil and turn the receiver volume control to maximum.

**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.

| 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 | High side of loop (Green lead) in series with 0.1 mfd. | 455 kc | Gang at max. cap. | L7, L8, 2nd I.F. trans<br>L5, L6, 1st I.F. trans. |
| 2 | 220 mmf. in series with a single turn loop 4x8 in., approx. 3 in. from receiver loop. (Bottom shield cover in place and chassis in cabinet) | 1600 kc | 1600 kc "C" | C11 Osc.<br>C2 R.F. |
| 3 | | 600 kc | 600 kc "B" | L4 Osc. Rock in |
| 4 | | 1600 kc | 1600 kc "C" | C11 Osc. |

**Note.**—In alignment, if possible, it is advisable to utilize an external source of "B" voltage. This will facilitate accessibility of the various trimmers.

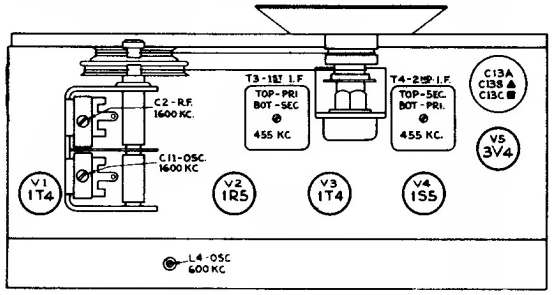
**Calibration.**—It is not necessary to refer to the dial scale for calibration. Three reference marks on the dial backing are used. With the gang completely meshed, the pointer should be set at "A" as shown in the diagram. For alignment purposes, 600 kc. will then fall at "B", and 1600 kc. will be at "C"




**Operation.**—This set operates on battery, or 117 Volt, 60 cycle AC (Battery in set, and in good condition). Provision is made so that when the set is operating on "AC" the battery is receiving a slight charge. In the "Charge" position, the rate of charge is much higher. A completely discharged battery will recharge in about 24 hours on "Charge". It is possible to overcharge the battery in the "AC" position, so it is advisable to play the receiver on "Battery" until slightly discharged whenever the battery has become fully charged on "AC"

**Battery Charging.**—With the cabinet back removed, two balls (1 red and 1 green) may be seen through an opening in the battery compartment cover. Both balls at top—battery full charged—Green ball sinks when battery is 20% discharged. Both balls at bottom—battery 90% discharged. Re-charge by connecting set to 115 volt 60 cycle power supply and set power switch to "CHG". Do not overcharge—check fuse if battery does not charge—do not allow battery to remain in discharged condition.

**Water level.**—Water Level should be checked frequently and distilled water or tap water, if it is used for cooking and drinking, added if required to bring liquid level up to the indicator line visible through the opening in the battery compartment cover. To add water; Remove line cord from power supply, remove cabinet back, remove thumb nuts and battery compartment cover, pull the battery out sufficiently to expose the red fill cap (pull on strap at bottom of battery), do not strain battery leads. Unscrew the red fill cap and add sufficient water to bring liquid level up to the indicator line.




# RCA VICTOR
# 65BR9 PORTABLE
## Chassis No. RC-1045