

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

**Model:** U10

**Chassis:**

**Year:** Pre June 1940

**Power:**

**Circuit:**

**IF:**

**Tubes:**

**Bands:**

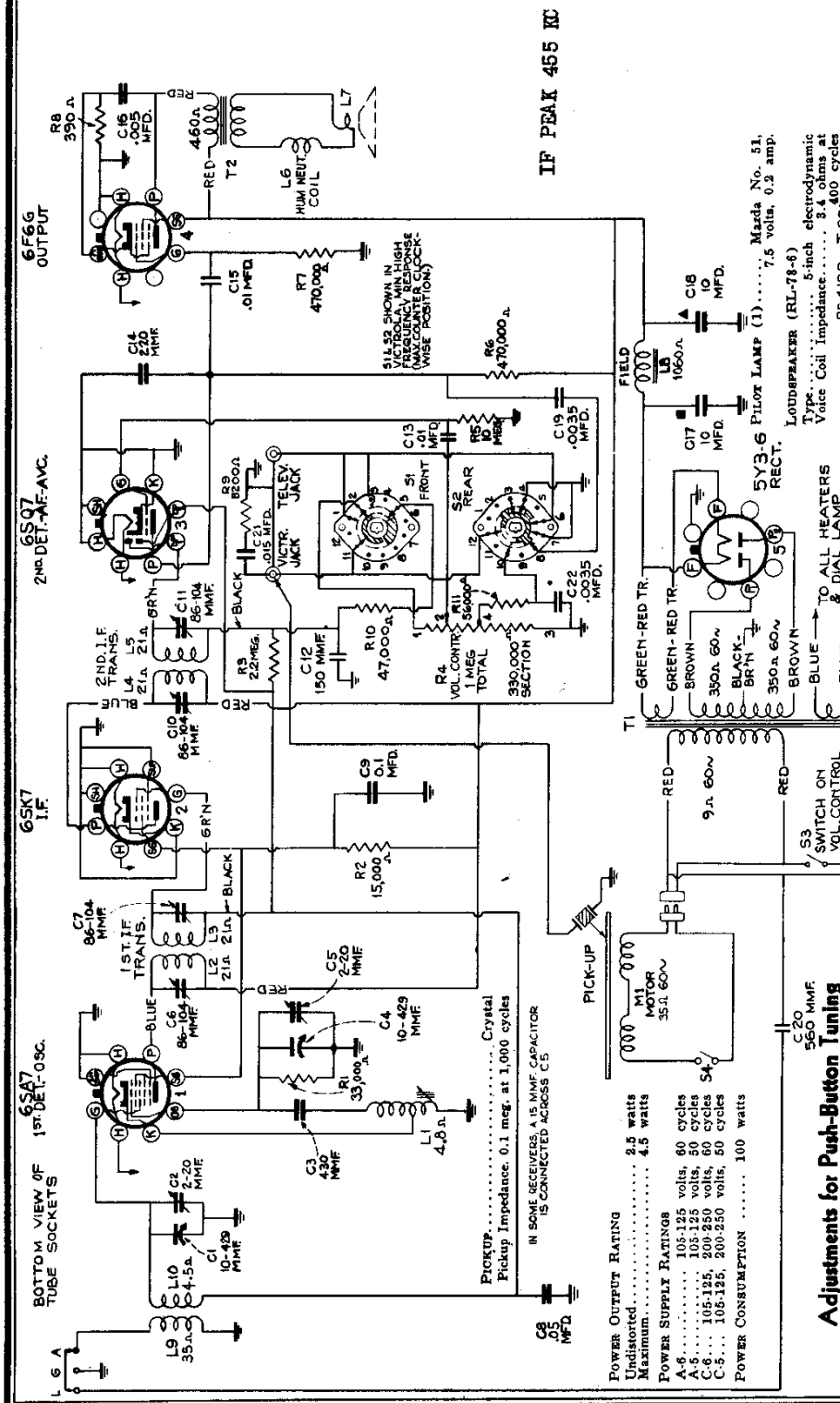
### Resources

**Riders Volume 11 - RCA 11-41**

**Riders Volume 11 - RCA 11-42**

RCA MFG. CO., INC.

MODEL U10, Chassis RC-418B  
Schematic, Alignment, Tuner



IF PEAK 455 KC

Steps	Connect the high side of the ant.-osc. to—	Tune test osc. to—	Turn radio dial to—	Adjust the following for maximum peak output
1	Antenna Terminal	455 kc	Quiet Point between C10 and C11 (2nd I-F trans.)	Cathode-Ray Alignment is the preferable method. Connections for the oscillograph are shown on the chassis drawing.
2			1,790-1,500 kc (1st I-F trans.)	Output Meter Alignment—If this method is used, connect the output meter across the voice coil, and turn the receiver volume control to maximum.
3	Ant. terminal in series with 500 mmfd.	1,500 kc	1,500 kc calibration mark	Test Oscillator.—For all alignment operations, connect the low side of the test oscillator to the receiver chassis, and keep the oscillator as low as possible to avoid a-v-c action.
4		400 kc	600 kc calibration mark	Calibration Marks.—The tuning dial is fastened in the cabinet and can not be used for reference during alignment. Therefore calibration marks have been stamped in the plate on the front of the chassis as a reference during alignment.
5	Repeat step 3		L1 (osc.)*	Dial Indicator Adjustment.—With the gang condenser in full mesh, the indicator should point to the extreme left (low frequency) mark on the dial scale.

**Adjustments for Push-Button Tuning**

- The push-buttons should be adjusted for six favorite stations after the receiver has been operating for a brief warm-up period. Each button may be set up to any standard broadcast station. The preferable arrangement is to adjust for stations in the order of frequency, from low to high. Proceed as follows:
  1. Pull off the push-buttons and loosen the push-button rods with a small screwdriver.
  2. Turn the necessary switch to "Radio" position and accurately tune in the station for which the first button is to be set.
  3. Press in push button rod No. 1 (left) with the screwdriver, as far as the push-button mechanism will permit, and then carefully manual control for best reception, and then carefully tighten up the rod. Do not tighten more than 1/4 turn after the rod begins to grip or damage to the mechanism may result.
  4. Replace the push-button on its shaft.
  5. Proceed in a similar manner for the remainder of the push-buttons.
  6. Insert the station marker tabs in the recesses above the push-buttons.

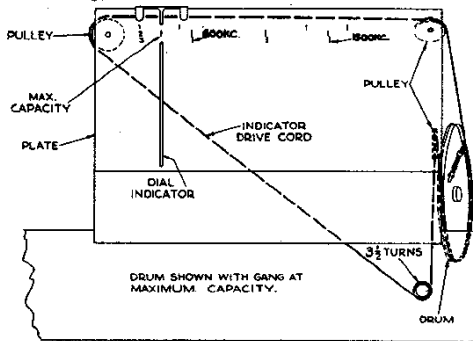
- POWER OUTPUT RATING**  
Undisorted..... 2.5 watts  
Maximum..... 4.5 watts
- POWER SUPPLY RATINGS**  
A-6..... 105-125 volts, 60 cycles  
A-5..... 105-125 volts, 50 cycles  
C-6... 105-125, 200-250 volts, 60 cycles  
C-5... 105-125, 200-250 volts, 50 cycles
- POWER CONSUMPTION** ..... 100 watts

PICKUP..... Crystal  
Pickup Impedance, 0.1 meg. at 1,000 cycles

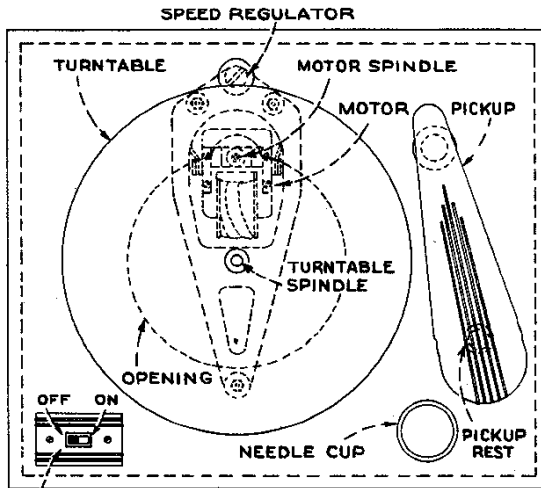
IN SOME RECEIVERS, A IS MMF CAPACITOR  
IS CONNECTED ACROSS C-5

MODEL U10, Chassis RC-418B  
 Chassis Wiring, Voltage  
 Socket, Trimmers, Lead Dress  
 Phono., Drive Cord Data

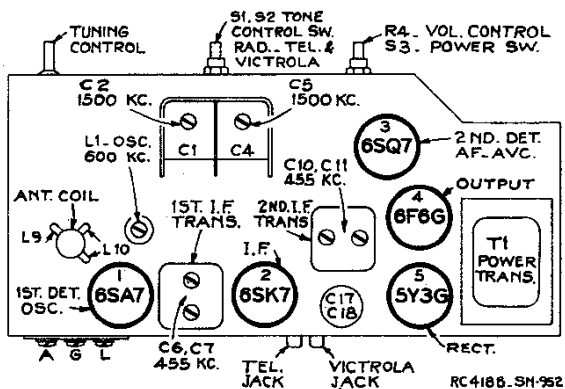
RCA MFG. CO., INC.



DIAL MECHANISM AND CALIBRATION MARKS.



TURNTABLE SWITCH



PRECAUTIONARY LEAD DRESS.—

1. Power cord leads must be dressed up away from 6SQ7 socket, and toward end of chassis.
2. Green lead 2nd I.F. to 6SQ7 must be dressed against base.
3. Blue lead 2nd I.F. to 6SK7 must be dressed close to base.
4. Green and blue leads from 1st I.F. transformer must be dressed close to base.
5. Red lead from "L" terminal on antenna board to 5Y3G socket must be dressed against base.
6. Green lead from gang to 6SA7 socket must be dressed toward side apron away from other parts.

