

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

**Model:** 6T2

**Chassis:**

**Year:** Pre October 1936

**Power:**

**Circuit:**

**IF:**

**Tubes:**

**Bands:**

### Resources

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RCA MFG. CO., INC.

MODELS 6T2, 6K2  
Schematic, Socket, Pickup  
Chassis Wiring, Loudspeaker

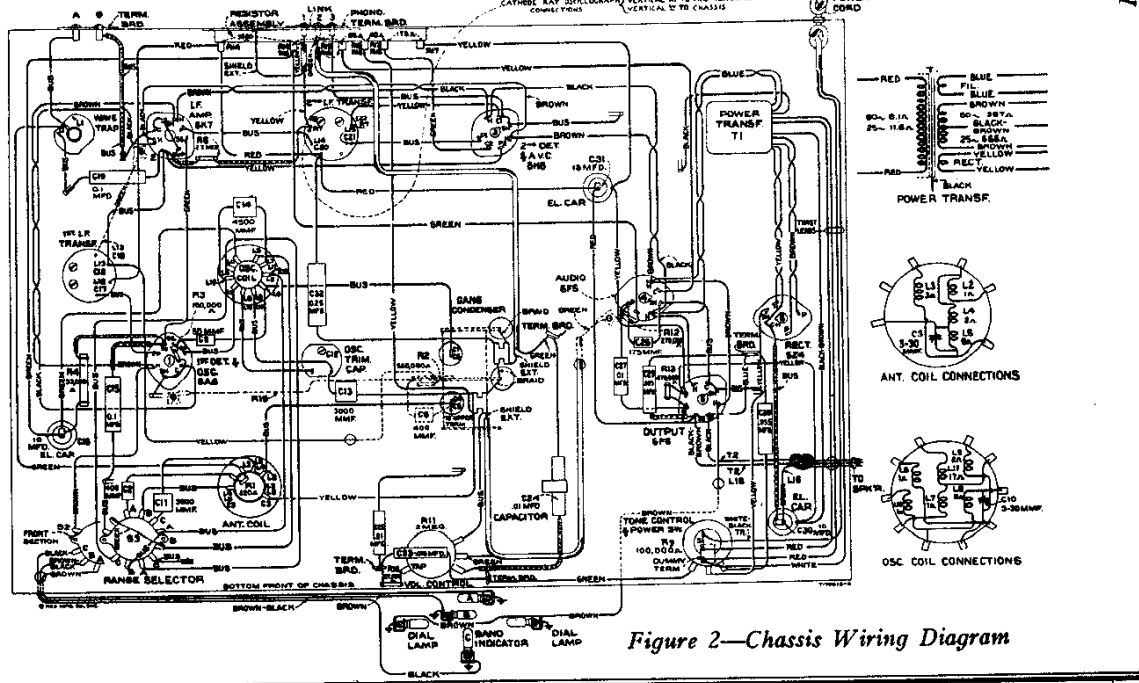
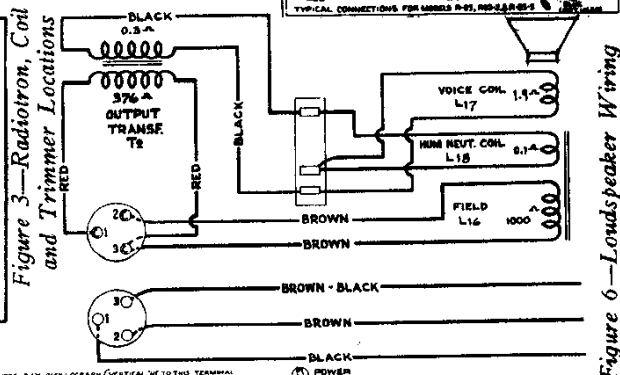
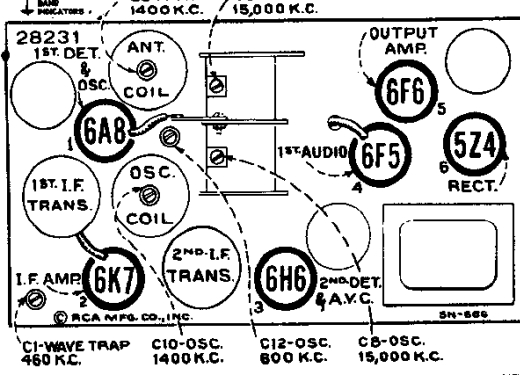
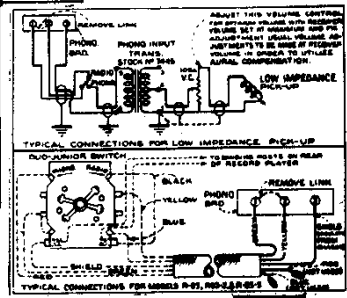
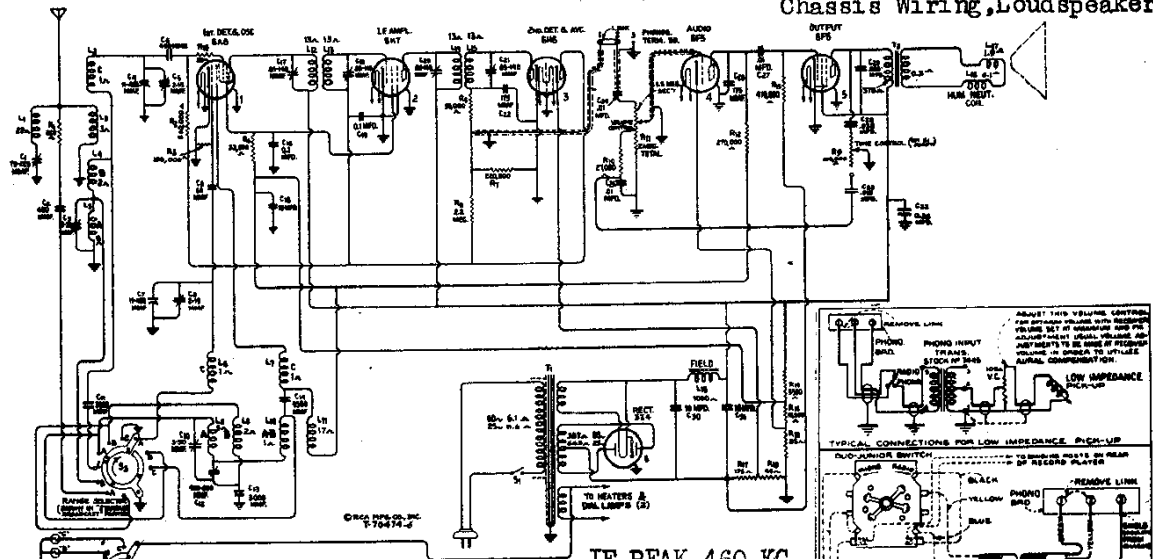


Figure 2—Chassis Wiring Diagram

Figure 6—Loudspeaker Wiring

MODELS 6T2, 6K2  
Voltage, Socket

RCA MFG. CO., INC.

Trimmers, Resistance  
Transformer Data

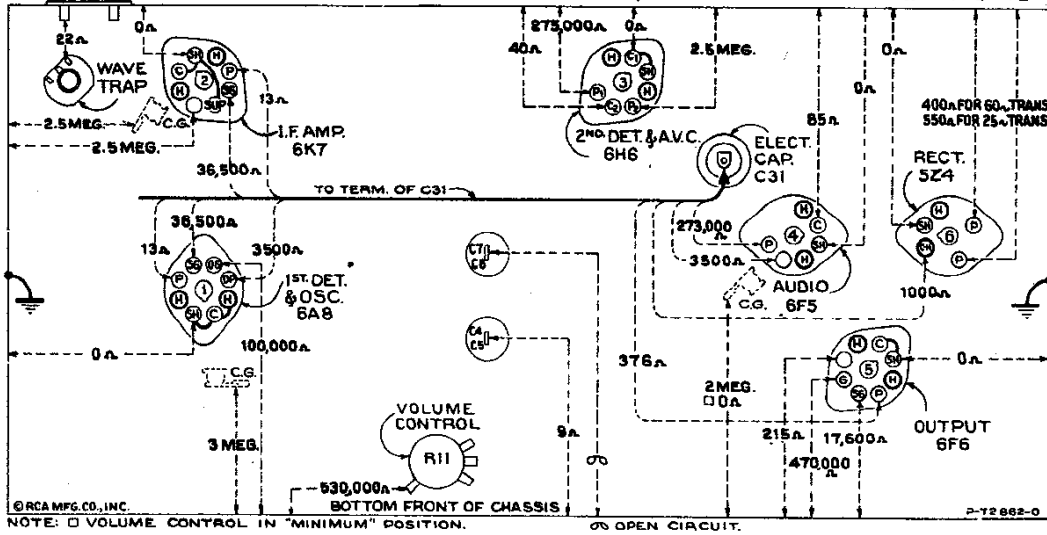


Figure 4—Resistance Diagram

Power supply disconnected—Radiotrons in sockets—Tuning condenser in full mesh—  
Range selector "Standard broadcast"—Volume control maximum

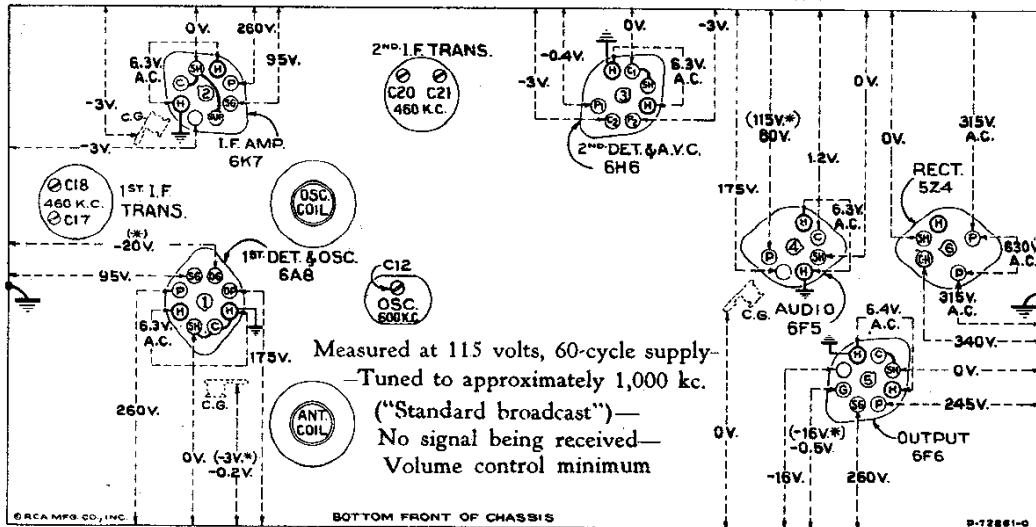
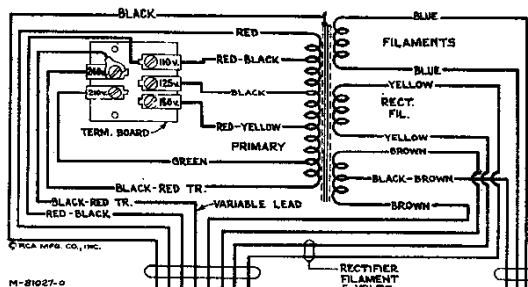


Figure 7—Radiotron Socket Voltages, Coil, and Trimmer Locations

Note: Two voltage values are shown for some readings. The higher value shown in parentheses with asterisk (\*) indicates operating conditions without voltmeter loading. The lower value is the actual measured voltage and differs from the higher value because of the additional loading of the voltmeter through the high series circuit resistance.

The voltage values indicated from the Radiotron socket contacts, grid caps, resistors, and terminals to receiver chassis ground on figure 7 will assist in locating cause of faulty operation. Each value as specified should hold within  $\pm 20\%$  when the receiver is normally operative at its rated line voltage. Variations in excess of this limit will usually be indicative of trouble in the basic circuits. These voltages were measured with receiver tuned to approximately 1,000 kc., no signal being received, and volume control set at minimum. To duplicate the conditions under which the voltages were measured requires a 1,000-ohm-per-volt d-c meter, having ranges of 10, 50, 250, 500, and 1,000 volts. Use the nearest range above the voltage to be measured. A-c voltages were measured with a corresponding a-c meter.



Primary Resistance—17.3 ohms total  
Secondary Resistance—355 ohms total

Figure 5—Universal Transformer

RCA MFG. CO., INC.

MODELS 6T2, 6K2
Circuit Data
Alignment, Parts

REPLACEMENT PARTS

Table with columns: Stock No., Description, List Price, and Part Details. Includes sections for Receiver Assemblies, Standard Broadcaster, and Reproducer Assemblies.

Wave-Trap

Connect the output of the test oscillator to the antenna terminal through the wave-trap. The antenna ground connected to the receiver chassis.

Short Wave Band

Connect the output of the test oscillator to the antenna terminal through a 300-ohm resistor, leaving the test oscillator ground connected as before.

Standard Broadcaster Band

Connect the output of the test oscillator to the antenna terminal through a 200 mfd. capacitor, leaving test oscillator ground connected as before.

Standard Broadcaster Band

Connect the test oscillator to the grid cap of the RCA-6A8 through a .001 mfd. capacitor, and connect the test oscillator ground to the receiver chassis.

Phenolphthalein

A terminal board is provided for connecting a phonograph into the audio amplifying circuit. Typical methods of connecting a low-impedance pickup to the RCA Victor Model 693, 693Z, 693ZS and Record Players are shown on the schematic diagram (Figure 1).

SERVICE DATA

Alignment Procedure

There are six adjustments which are required for alignment of the antenna, oscillator, and wave-trap tuning circuits. The antenna, oscillator, and wave-trap tuning circuits are aligned by four trimming capacitor screws. Improper alignment usually causes the impairment of sensitivity, selectivity, and tone quality. Such conditions will usually exist simultaneously.

A second test oscillator, such as the RCA-52A, is recommended for alignment of the receiver at the specified alignment frequencies. Means for modulation of the receiver output during alignment is also necessary to show when the correct point of adjustment is reached.

It is desirable to make the adjustment of all trimmer capacitors a second time to assure that the interaction between them has not disturbed the original adjustment.

RF Adjustments

Calibrate the tuning dial by adjusting the scale pointer to the extreme end calibration mark (beyond 55 on dial) while the two-gang tuning condenser plates are in full mesh. Alignment (see figure 3) for operation of the receiver is now complete.

Electrical Specifications

Table of electrical specifications including Frequency Ranges, Power Supply Ratings, and Receiver Characteristics for Models 6T2 and 6K2.

Mechanical Specifications

Table of mechanical specifications including dimensions for Models 6T2 and 6K2, such as height, depth, and chassis base dimensions.