

VOLTAGE & RESISTANCE MEASUREMENTS FROM SOCKET TERMINALS TO FLOATING GROUND  
RESISTANCE

VOLTAGE

TUBE	WITH SLIDE SWITCH IN ELECTRIC POSITION							
	1	2	3	4	5	6	7	8
1R5	2.8	95	48	**	2.8	*1.8	4.2	
1U4	0	95	95	*1.8	0	0	1.4	
1S5	2.8	0	*2	*20	*50	*1	1.4	
3V4	4.2	95	95	7	5.6	0	7	
OY4	0	0	+DC	117AC	0	120	120	

WITH SLIDE SWITCH IN BATTERY POSITION

1R5	3.0	90	48	**	3.0	*1.8	4.5	
1U4	0	90	90	*1.8	0	0	1.5	
1S5	3.0	0	*2	*20	*50	*1	1.5	
3V4	4.5	90	90	0	6.0	0	7.5	
OY4	0	0	0	0	0	0	0	

All voltage measurements are made with a line voltage of 117V AC or a battery having 90 VB and 7.5 VA; with no signal using a 1000 ohm per volt voltmeter and are +DC unless otherwise indicated.  
\* Measured with a vacuum tube voltmeter.  
\*\*The oscillator voltage measured with a vacuum tube voltmeter from the oscillator grid to floating ground will vary from approx. -6V with the variable condenser closed to -12V with the condenser open. The true oscillator voltage measured from the grid to the negative filament lug should be from -10 to -20V.

\* The resistance reading at this point is the leakage across the electrolytic condenser and will vary with different condensers and different ohmmeters. With the negative lead of the ohmmeter to floating ground, the reading may vary anywhere from 50K to 1M depending on the type meter used.  
\*\* 22K higher than the electrolytic condensers leakage  
K equals 100 ohms  
M equals 1 megohm

Approximate Resistance of Coils:

L1-9 ohms	T1 Primary - 34 ohms
L2-7 ohms	Secondary-22 ohms
L3-1.5 ohms	Revised
L4-9.4 ohms	T1 Primary - 25 ohms
	Secondary - 25 ohms

T2 Primary - 22 ohms	T3 Primary - 250 ohms
Secondary - 34 ohms	Secondary-4 ohms
has 47,000 ohm resistor in series inside can	
Revised	
T2 Primary - 23 ohms	
Secondary - 35 ohms	
has 47,000 ohm resistor in series inside can.	

SERVICE HINTS AND CIRCUITS CHANGES:

\* Any of the following battery packs can be used: General 60A-6F6-5; Eveready 753; Ray-O-Vac AB994; Burgess F6A60.

NOTE: 1. The dial light operates only when the set is connected to the power line. The set will not operate on the power line if the dial light is burned out. (The tubes will have no filament voltage).

2. Since there have been changes made in the IF Coils in the course of production, all IF Coil replacements should be made in matched pairs to assure satisfactory performance. All coils supplied for replacement will be the revised coils. Replacement of either IF Coil alone may result in oscillation or poor performance.