

VOLTAGE & RESISTANCE MEASUREMENTS FROM SOCKET TERMINALS TO FLOATING GROUND

V O L T A G E

R E S I S T A N C E

WITH SLIDE SWITCH IN ELECTRIC POSITION

TUBE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
1R5	2.8	95	48	**	2.8	*1.8	4.2		39	3.5K	25.5K	100K	39	4.3M	50	
1U4	0	95	95	*1.8	0	0	1.4		0	3.5K	3.5K	4.3M	0	10M	22	
1S5	2.8	0	*2	*20	*50	*1	1.4		39	Inf.	1M+	4.75M	333.5K	4.7M	22	
3V4	4.2	95	95	7	5.6	0	7		50	3.5K	3.5K	65	60	2.2M	65	
OY4	0	0	+DC	117AC	117AC	0	120	120	330K	Inf.	Inf.	Inf.	Inf.	Inf.	1889	1889

WITH SLIDE SWITCH IN BATTERY POSITION

	1R5	3.0	90	48	**	3.0	*1.8	4.5		39	*	**	100K	39	4.3M	50
1U4	0	90	90	*1.8	0	0	1.5			0	*	4.3M	0	10M	22	
1S5	3.0	0	*2	*20	*50	*1	1.5			39	Inf.	1M+	4.75M	390K	4.7M	22
3V4	4.5	90	90	0	6.0	0	7.5			50	*	680	60	2.2M	72	
OY4	0	0	0	0	0	0	0	0		330K	Inf.	10.3M	330K	330K	Inf.	2.5K

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

IF = 455 KC.

T2 Primary - 22 ohms T3 Primary - 250 ohms

Secondary - 34 ohms Secondary - 4 ohms

Revised
 has 47,000 ohm resistor in series inside can

T2 Primary - 23 ohms T2 Secondary - 35 ohms

Revised
 has 47,000 ohm resistor in series inside can.

AC-DC
 BATTERY
 PORTABLE
 MODEL
 140P

CHASSIS
 RE-209

1947-48

INSTRUCTION DATA

Approximate Resistance of Coils:
 L1-9 ohms T1 Primary - 34 ohms
 L2-7 ohms T1 Secondary - 22 ohms
 L3-15 ohms T1 Primary - 25 ohms
 L4-9.4 ohms T1 Secondary - 25 ohms

1947-48

CIRCUIT ON
 SHEET 1

140P

CHASSIS

RE-209

