

Fig. 1

IMPORTANT

All chassis below serial number 139149 use volume control P-90966 shown in Figure 1. Chassis above 139149 use volume control P-90969 shown in Figure 3. When replacing volume controls use P-90969 and volume control connections shown in Fig. 3.

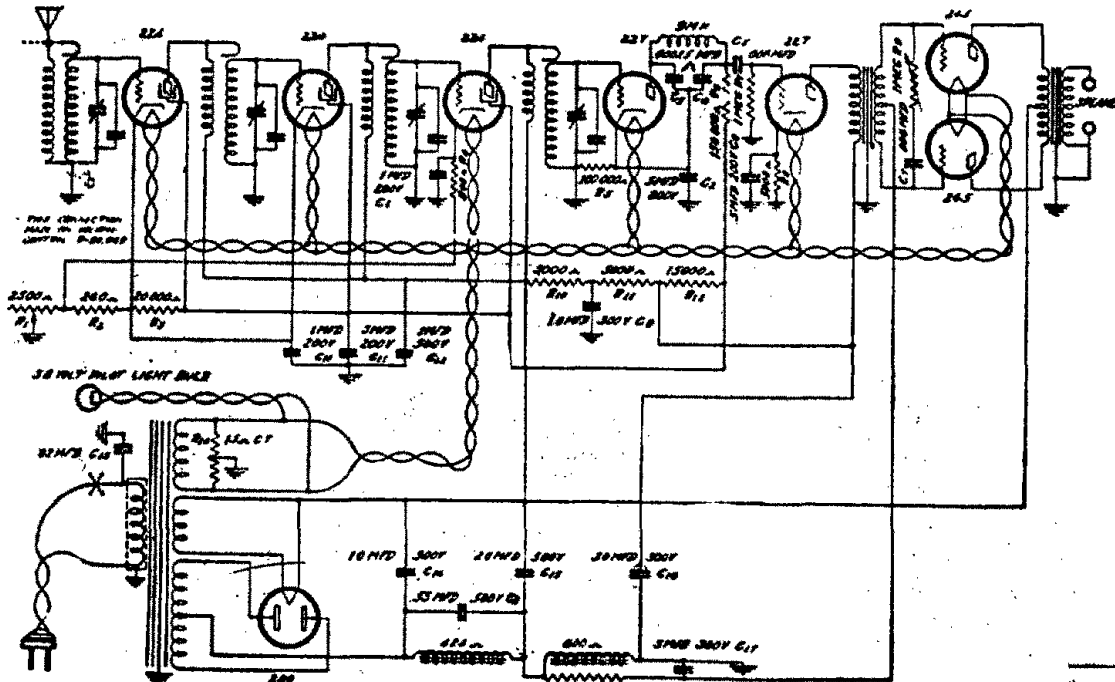


Fig. 2 25-Cycle Chassis

Tube Voltages

All D.C. voltages taken with a 1000 ohm per volt meter on the scale indicated in column headed "Meter Scale." Turn the volume control all the way on and connect the antenna and ground leads together.

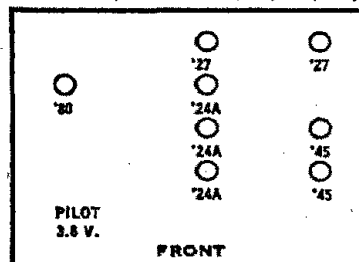
The grid, plate, and screen grid voltages are measured to cathode of the heater tubes and to filament of three-element tubes.

The dynamic loud speaker has a field resistance of 600 ohms. The field is used as one of the filter chokes in the power pack.

R.F. Coils

The R.F. Coils on this receiver are both inductively and capacitively coupled in such a way that the R.F. gain is constant throughout the entire broadcast band. Each coil is marked with a streak of paint inside the secondary coil near the lugs, according to the group into which it falls. Four coils of the same color are used in each chassis. When ordering a coil for replacement, therefore, be sure to mention the color of the paint on that coil so that it will be replaced with one of identically the same characteristics. If there is any doubt, return the coil. It is seldom that one of these radio frequency coils needs replacement, but should it be necessary to do so, first unsolder the wires on the coil lugs, then loosen the nuts holding the metal coil can. After the coil can is removed, loosen the two nuts holding the coil form and remove the coil.

Models 62-040, 62-181, 62-3335, 181, 187 (1930)



Tube	Circuit	Meter Scale	90 V.	100 V.	110 V.	120 V.	130 V.
1st two 224 R.F. Amplifier Tubes	Grid Screen Grid Plate	0-5 0-100 0-750	-2.5 62 220	-2.9 70 240	-3.3 76 270	-3.7 84 295	-4.1 90 310
2nd 224 R.F. Amplifier Tube	Grid	0-5	-1.9	-2.3	-2.6	-3.0	-3.4
Detector 227 Tube	Grid Plate	0-10 0-100 0-750	2.4 21 90	2.7 24 90	3.0 26 90	3.3 29 90	3.6 32 90
227 Audio Amplifier Tube	Grid Plate	0-10 0-100 0-750	3 30 220	4 34 240	5 39 270	5.5 43 295	6 47 310
245 Power Tubes	Grid Plate	0-100 0-750	30 220	34 240	39 270	43 295	47 310
280 Rectifier Tube	Plate	0-750	300	330	360	400	415