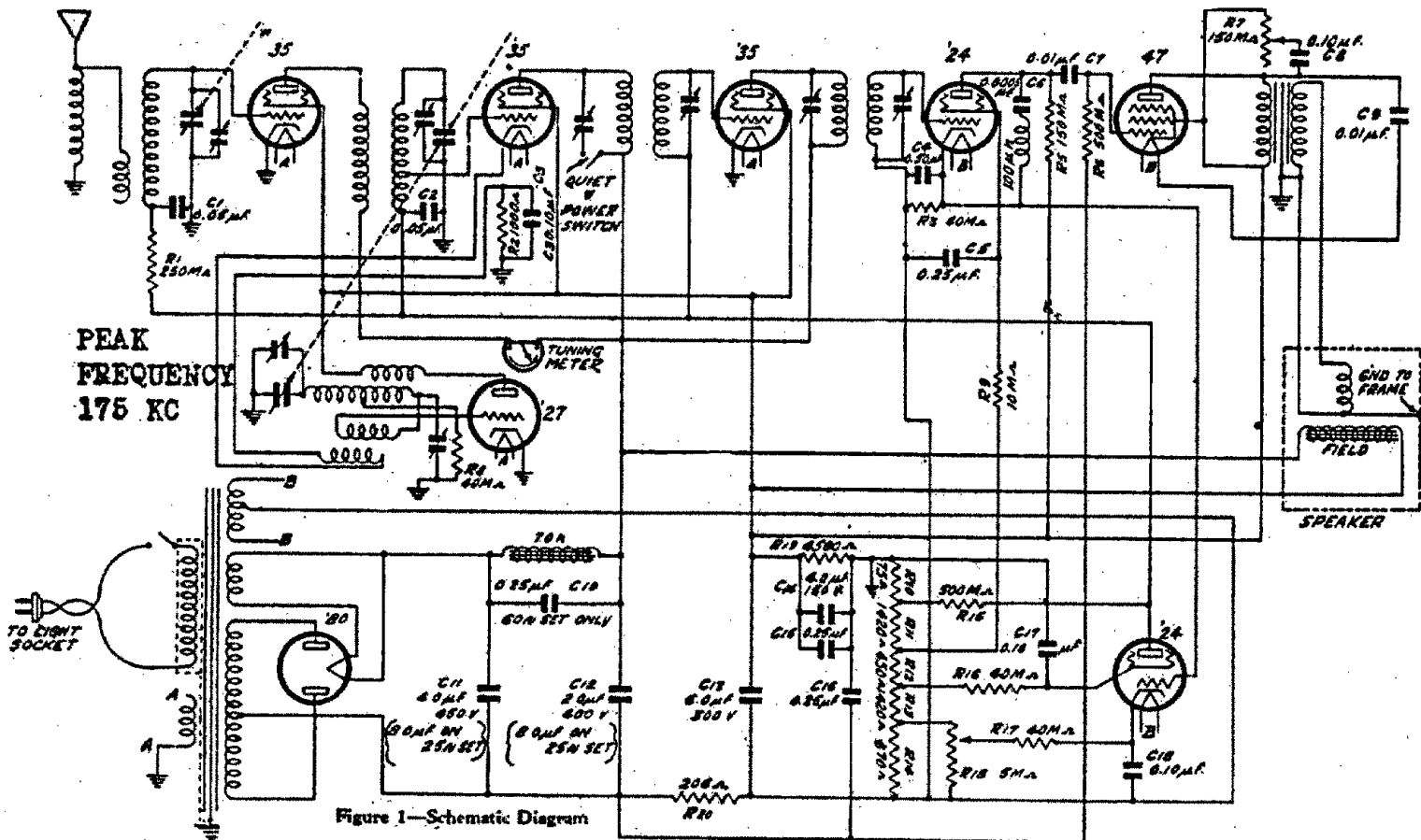


MONTGOMERY-WARD & CO.

MODEL 62-11, 62-12, 62-14,
62-27, 62-19
Schematic (1st Type)



TUBE	CIRCUIT	LINE VOLTAGE				
		90 V.	100 V.	110 V.	120 V.	130 V.
R.F. '35	Screen grid	70	78	85	92	100
	Plate	143	159	175	191	207
1st Det. '35	Screen grid	70	78	85	92	100
	Plate	143	159	175	191	207
I. F. '35	Screen grid	70	78	85	92	100
	Plate	143	149	175	191	207
Oscillator .. '27	Plate	70	78	85	92	100
	Screen grid	66	73	80	87	94
2nd-Det. '24	Plate	127	134	141	148	155
	Screen grid	14	15.5	17	18.5	20
A. V. C. '24	—Grid grid	24	26	28	30	32
	Screen					
Audio '47	Accel. Grid	199	221	244	267	289
	Plate	171	190	210	230	250
Rectifier ... '80	Current (both plates) ..	67 MA	75 MA	82 MA	89 MA	96 MA
	Plate to Plate Voltage ..	512	569	625	682	739

The voltage readings on this chassis cannot be taken in the conventional way, namely between the tube elements and ground. You will note from diagram Figure No. 1, that the ground connection is taken off the shunt resistor near to the positive end, and the chassis is therefore, approximately 150 Volts positive, with respect to the tube elements. The correct voltage readings may be obtained by taking readings to the cathode of the heater type tubes, and filament of the 247.

TURN THE VOLUME CONTROL ALL THE WAY ON, CONNECT THE ANTENNA AND GROUND LEADS TOGETHER AND TURN THE GANG CONDENSER PLATES ALL THE WAY OUT. CHECK THE LINE VOLTAGE.

NOTE
"GRENADE" No 62-12
Two entirely different chassis were supplied to the Retail Stores under the name "Grenadier." Each chassis, however, has a different Catalogue number and should be distinguished from this number. The Grenadier No. 62-12 uses the U. S. Radio 8 tube chassis and is exactly the same as our Nos. 1238 and 1838. Therefore, when servicing or ordering repair parts for the Grenadier No. 62-12, use the No. 1238 and 1838 service manual. Grenadier No. 62-14 (Catalogue No. 62-11) is the Wells-Gardner 8 tube chassis which will be described in this service manual.