

Radiola Model 262

ELECTRICAL SPECIFICATIONS.

Voltage Rating	200-260 volts
Frequency Rating	40-60 cycles
(Special instruments made for other voltage and frequency ratings)	
Power Consumption	140 watts
Tuning Ranges	(A) 1500-550 kilocycles
	(B) 35-105 metres
	(C) 13-39 metres
Intermediate Frequency	460 kilocycles

VALVES AND CIRCUITS.

6K7	R.F. Amplifier	6H6	Detector and A.V.C.
6L7	Converter	6H6	Muting Diode
6J7	Oscillator	6L7	Audio Amplifier
6K7	I.F. Amplifier	6N7	Audio Amplifier
Two 6L6's	in Class A B Push-pull	5Z3	Rectifier

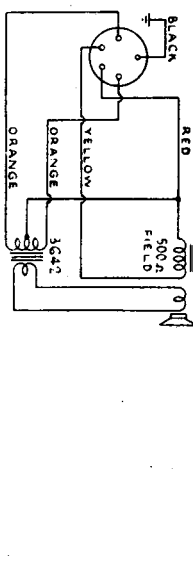
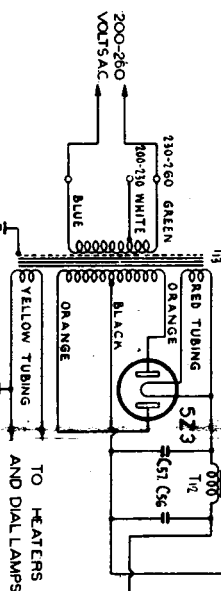
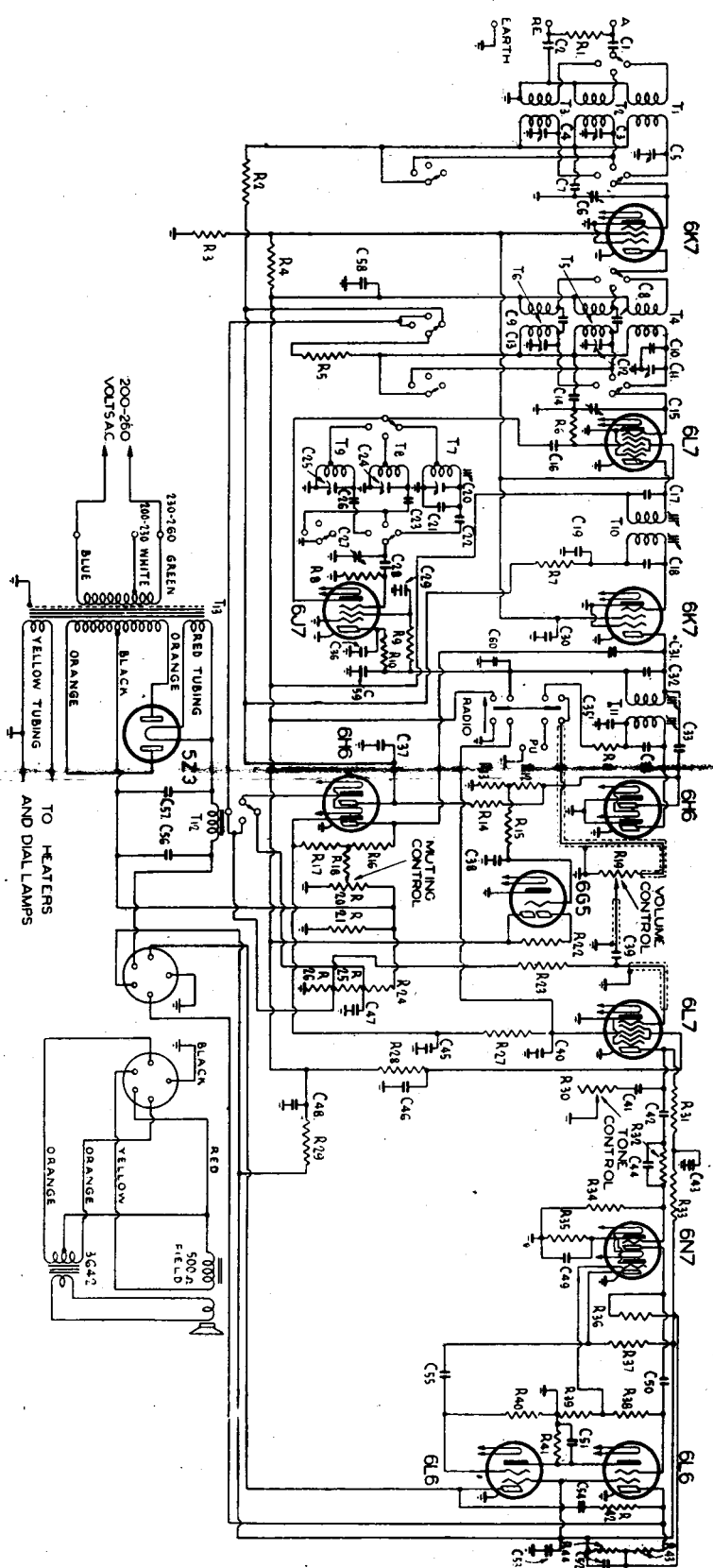
SOCKET VOLTAGES.

VALVE	Chassis to Cathode Volts	Chassis to Screen Grid Volts	Chassis to Plate Volts	Plate Current M.A.	Heater Volts	
6K7 R.F. Amplifier	M.W.	0	100	255	3.5	6.3
	S.W.	0	95	245	6.0	—
6L7 Converter	M.W.	0	100	255	2.0	6.3
	S.W.	0	95	245	2.0	—
6J7 Oscillator	M.W.	0	205	240	3.0	6.3
	S.W.	0	210	210	4.5	—
6K7 I.F. Amplifier	M.W.	0	100	255	3.5	6.3
	S.W.	0	95	245	6.0	—
6H6 Detector & A.V.C.	0	—	—	0	6.3	
6H6 Muting Diode	M.W.	*2.8	—	—	0	6.3
	S.W.	*5.5	—	—	0	—
6L7 Audio Amplifier	0	40	135	0.75	6.3	
6N7 Audio Amplifier	4.4	—	175	2.2	6.3	
Each 6L6 Output	21	315	300	55	6.3	
5Z3 Rectifier	820/410 v., 140 M.A. total current. 5.0					

Voltage across loudspeaker field, 75 volts D.C.

Measured at 240 volts A.C. supply. No signal input. Controls in maximum clockwise position excepting range switch which is set as desired.

* Cannot be measured with ordinary voltmeter.



Code	Part No.	COILS	Code	Part No.	RESISTORS	Code	Part No.	CONDENSERS
T1	3563	Aerial Coil, 1500-550 K.C.	R25		10,000 ohms, $\frac{1}{2}$ watt	C19		.05 mfd. Paper
T2	3563	Aerial Coil, 35-105 Metres	R26		10,000 ohms, $\frac{1}{2}$ watt	C20		2-20 mmfd. Air Trimmer
T3	3568	Aerial Coil, 13-39 Metres	R27		500,000 ohms, $\frac{1}{2}$ watt	C21		20 mmfd. Mica (K)
T4	3565	R.F. Coil, 1500-550 K.C.	R28		250,000 ohms, $\frac{1}{2}$ watt	C22		505 mmfd. Mica Padding
T5	3565	R.F. Coil, 35-105 Metres	R29	2087	1,500 ohms, Wire Wound	C23		2025 mmfd. Mica Padding
T6	3569	R.F. Coil, 13-39 Metres	R30	1668	300,000 ohms, Tone Control	C24		2-20 mmfd. Air Trimmer
T7	3611	Oscillator Coil, 1500-550 K.C.	R31		50,000 ohms, $\frac{1}{2}$ watt	C25		2-10 mmfd. Air Trimmer
T8	3611	Osc. Coil, 35-105 Metres	R32		500,000 ohms, $\frac{1}{2}$ watt	C26		3950 mmfd. Mica Padding
T9	3612	Osc. Coil, 13-39 Metres	R33		100,000 ohms, $\frac{1}{2}$ watt	C27	3665	Variable Condenser
T10	3243	First I.F. Transformer	R34		100,000 ohms, $\frac{1}{2}$ watt	C28		115 mmfd. Mica (A)
T11	3244	Second I.F. Transformer	R35		2,000 ohms, $\frac{1}{2}$ watt	C29		.005 mfd. Paper
T12	3743	Smoothing Choke	R36		100,000 ohms, $\frac{1}{2}$ watt	C30		.1 mfd. Paper
T13	3734A	Power Transformer, 40-60 C.	R37		100,000 ohms, $\frac{1}{2}$ watt	C31		115 mmfd. Mica (A)
T13	3736A	Power Transformer, 110 Volts	R38		200,000 ohms, $\frac{1}{2}$ watt	C32		115 mmfd. Mica (A)
			R39		10,000 ohms, $\frac{1}{2}$ watt	C33		115 mmfd. Mica (A)
			R40		200,000 ohms, $\frac{1}{2}$ watt	C34		115 mmfd. Mica (A)
			R41	3709	190 ohms, Wire Wound	C35		200 mmfd. Mica (J)
			R42		15,000 ohms, 1 watt	C36		.005 mfd. Paper
			R43		10,000 ohms, $\frac{1}{2}$ watt	C37		.02 mfd. Paper
			R44		3,000 ohms, $\frac{1}{2}$ watt	C38		.05 mfd. Paper
						C39		.05 mfd. Paper
						C40		.05 mfd. Paper
						C41		.01 mfd. Paper
						C42		.01 mfd. Paper
						C43		.5 mfd. Paper
						C44		115 mmfd. Mica (A)
						C45		.05 mfd. Paper
						C46		.5 mfd. Paper
						C47		25 mfd. 25V. Electrolytic
						C48		8 mfd. 500V. Electrolytic
						C49		25 mfd. 25V. Electrolytic
						C50		.02 mfd. Paper
						C51		25 mfd. 25V. Electrolytic
						C52		.03 mfd. Paper
						C53		8 mfd. 500V. Electrolytic
						C54		2800 mmfd. Mica
						C55		.05 mfd. Paper
						C56		8 mfd. 600V. Electrolytic
						C57		8 mfd. 600V. Electrolytic
						C58		.1 mfd. Paper
						C59		.1 mfd. Paper
						C60		.1 mfd. Paper
R1		100,000 ohms, $\frac{1}{2}$ watt						
R2		100,000 ohms, $\frac{1}{2}$ watt						
R3		11,000 ohms, 3 watt						
R4		11,000 ohms, 3 watt						
R5		100,000 ohms, $\frac{1}{2}$ watt						
R6		50,000 ohms, $\frac{1}{2}$ watt						
R7		100,000 ohms, $\frac{1}{2}$ watt	C1		500 mmfd. Mica			
R8		50,000 ohms, $\frac{1}{2}$ watt	C2		500 mmfd. Mica			
R9		5,000 ohms, $\frac{1}{2}$ watt	C3		2-20 mmfd. Air Trimmer			
R10		15,000 ohms, $\frac{1}{2}$ watt	C4		2-20 mmfd. Air Trimmer			
R11		100,000 ohms, $\frac{1}{2}$ watt	C5		2-20 mmfd. Air Trimmer			
R12		250,000 ohms, $\frac{1}{2}$ watt	C6	3665	Variable Condenser			
R13		500,000 ohms, $\frac{1}{2}$ watt	C7		.05 mfd. Paper			
R14		$1\frac{1}{2}$ megohms, $\frac{1}{2}$ watt	C8		6 mmfd. Mica (F)			
R15		$1\frac{1}{2}$ megohms, $\frac{1}{2}$ watt	C9		10 mmfd. Mica (B)			
R16		1 megohm, $\frac{1}{2}$ watt	C10		6 mmfd. Mica (F)			
R17		1 megohm, $\frac{1}{2}$ watt	C11		2-20 mmfd. Air Trimmer			
R18		$1\frac{1}{2}$ megohms, $\frac{1}{2}$ watt	C12		2-20 mmfd. Air Trimmer			
R19	1668	300,000 ohms, Vol. Control	C13		2-20 mmfd. Air Trimmer			
R20	3680	3,000 ohms, Muting Control	C14		.05 mfd. Paper			
R21	3738	85 ohms, Wire Wound	C15	3665	Variable Condenser			
R22		1 megohm, $\frac{1}{2}$ watt	C16		115 mmfd. Mica (A)			
R23		$1\frac{1}{2}$ megohms, $\frac{1}{2}$ watt	C17		115 mmfd. Mica (A)			
R24		25,000 ohms, $\frac{1}{2}$ watt	C18		115 mmfd. Mica (A)			

RADIOLA 262 CIRCUIT DATA

OPERATING VOLTAGES.

The operating voltages for most of the corresponding valves in models 257 and 262 are identical, and so only those valves whose operating voltages differ will be mentioned here, along with the operating voltages of the additional valves. Operating voltages for any of the valves in model 262 not mentioned hereunder will be found on reference to model 257. The following measurements were made under similar conditions to those given for model 257.

6J7, Oscillator: Plate, 220 v. (240 v.); screen, 205 v. (200 v.); cathode, zero. Plate current, 3 mA.

6L7, A.F. Voltage Amplifier: Plate, 135 v.; screen, 40 v.; cathode, zero. Plate current, 0.8 mA.

6N7, Phase Inverter: Each plate, 175 v.; cathode, 4.5 v. Each plate current, 2 mA.

6L6, "Beam" Output Tetrodes: Each plate, 300 v.; each screen, 315 v.; each cathode, 20 v. Each plate current, 55 mA.

5Z3, Rectifier: A.C. volts each plate (measured from C.T. of high-voltage secondary of power transformer), 410 v.; total current, 150 mA.; voltage drop across loudspeaker field, 75 v.

Radiola Model 262

Radiola model 262 is an 11-valve three-band receiver whose basic circuit design is identical to that of model 257. The main point of difference is that a 6N7 double-triode, acting as phase inverter and "driven" by the 6L7 A.F. voltage amplifier has been added to model 262; the 6N7, phase inverter, is followed by two 6L6's in push-pull, this latter being the output stage of the receiver.

The type 80 rectifier valve used in model 257 has been replaced by a 5Z3 in model 262, and the tone control unit will be found connected from the plate of the 6L7 "driver" to chassis in this latter model; a 0.01 mfd. condenser in series with a 300,000 ohms potentiometer comprises this unit. Another minor point of difference will be found in the field coil resistance, which is 500 ohms in model 262.