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

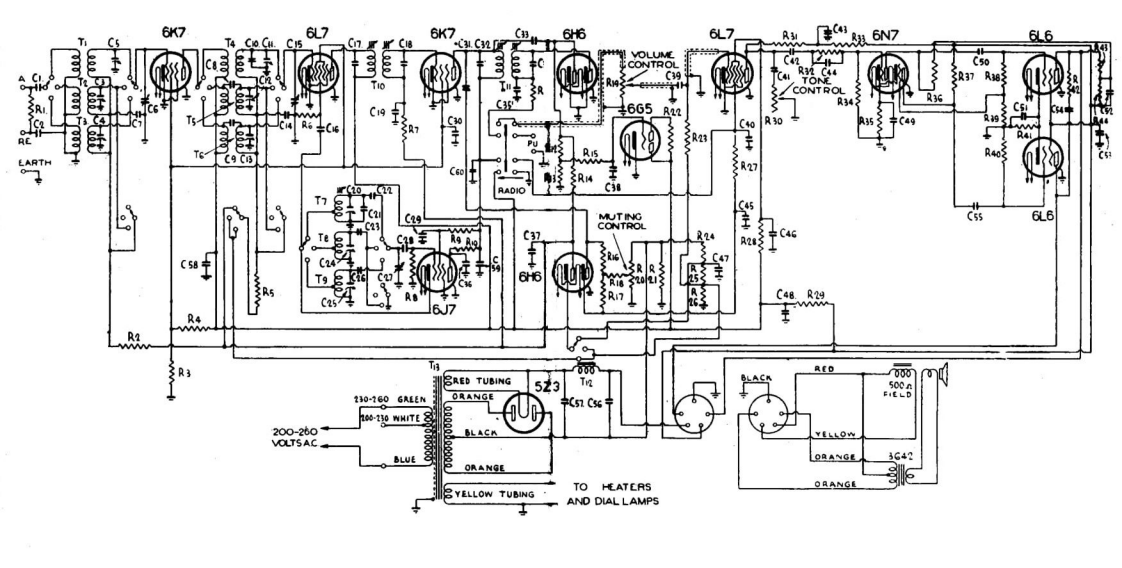
SOCKET VOLTAGES.

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.


6K7
6L7
6K7
6H6
6L7
6N7
6L6
6J7
6H6
6L6
6G5
VOLUME CONTROL
TONE CONTROL
MUTING CONTROL
PU
RADIO
EARTH
A
RE
5Z3
230-260 GREEN
200-230 WHITE
200-260 VOLTS AC
BLUE
RED TUBING
ORANGE
BLACK
ORANGE
YELLOW TUBING
TO HEATERS AND DIAL LAMPS
BLACK
RED
500Ω FIELD
YELLOW
ORANGE
3G42
ORANGE

Code	Part No.	COILS
T1	3563	Aerial Coil, 1500-550 K.C.
T2	3563	Aerial Coil, 35-105 Metres
T3	3568	Aerial Coil, 13-39 Metres
T4	3565	R.F. Coil, 1500-550 K.C.
T5	3565	R.F. Coil, 35-105 Metres
T6	3569	R.F. Coil, 13-39 Metres
T7	3611	Oscillator Coil, 1500-550 K.C.
T8	3611	Osc. Coil, 35-105 Metres
T9	3612	Osc. Coil, 13-39 Metres
T10	3243	First I.F. Transformer
T11	3244	Second I.F. Transformer
T12	3743	Smoothing Choke
T13	3734A	Power Transformer, 40-60 C.
T13	3736A	Power Transformer, 110 Volts

Code	Part No.	RESISTORS.
R1		100,000 ohms, ½ watt
R2		100,000 ohms, ½ watt
R3		11,000 ohms, 3 watt
R4		11,000 ohms, 3 watt
R5		100,000 ohms, ½ watt
R6		50,000 ohms, ½ watt
R7		100,000 ohms, ½ watt
R8		50,000 ohms, ½ watt
R9		5,000 ohms, ½ watt
R10		15,000 ohms, ½ watt
R11		100,000 ohms, ½ watt
R12		250,000 ohms, ½ watt
R13		500,000 ohms, ½ watt
R14		1¾ megohms, ½ watt
R15		1¾ megohms, ½ watt
R16		1 megohm, ½ watt
R17		1 megohm, ½ watt
R18		1¾ megohms, ½ watt
R19	1668	300,000 ohms, Vol. Control
R20	3680	3,000 ohms, Muting Control
R21	3738	85 ohms, Wire Wound
R22		1 megohm, ½ watt
R23		1¾ megohms, ½ watt
R24		25,000 ohms, ½ watt

Code	Part No.	RESISTORS
R25		10,000 ohms, ½ watt
R26		10,000 ohms, ½ watt
R27		500,000 ohms, ½ watt
R28		250,000 ohms, ½ watt
R29	2087	1,500 ohms, Wire Wound
R30	1668	300,000 ohms, Tone Control
R31		50,000 ohms, ½ watt
R32		500,000 ohms, ½ watt
R33		100,000 ohms, ½ watt
R34		100,000 ohms, ½ watt
R35		2,000 ohms, ½ watt
R36		100,000 ohms, ½ watt
R37		100,000 ohms, ½ watt
R38		200,000 ohms, ½ watt
R39		10,000 ohms, ½ watt
R40		200,000 ohms, ½ watt
R41	3709	190 ohms, Wire Wound
R42		15,000 ohms, 1 watt
R43		10,000 ohms, ½ watt
R44		3,000 ohms, ½ watt

Code	Part No.	CONDENSERS
C1		500 mmfd. Mica
C2		500 mmfd. Mica
C3		2-20 mmfd. Air Trimmer
C4		2-20 mmfd. Air Trimmer
C5		2-20 mmfd. Air Trimmer
C6	3665	Variable Condenser
C7		.05 mfd. Paper
C8		6 mmfd. Mica (F)
C9		10 mmfd. Mica (B)
C10		6 mmfd. Mica (F)
C11		2-20 mmfd. Air Trimmer
C12		2-20 mmfd. Air Trimmer
C13		2-20 mmfd. Air Trimmer
C14		.05 mfd. Paper
C15	3665	Variable Condenser
C16		115 mmfd. Mica (A)
C17		115 mmfd. Mica (A)
C18		115 mmfd. Mica (A)

Code	Part No.	CONDENSERS
C19		.05 mfd. Paper
C20		2-20 mmfd. Air Trimmer
C21		20 mmfd. Mica (K)
C22		505 mmfd. Mica Padding
C23		2025 mmfd. Mica Padding
C24		2-20 mmfd. Air Trimmer
C25		2-10 mmfd. Air Trimmer
C26		3950 mmfd. Mica Padding
C27	3665	Variable Condenser
C28		115 mmfd. Mica (A)
C29		.005 mfd. Paper
C30		.1 mfd. Paper
C31		115 mmfd. Mica (A)
C32		115 mmfd. Mica (A)
C33		115 mmfd. Mica (A)
C34		115 mmfd. Mica (A)
C35		200 mmfd. Mica (J)
C36		.005 mfd. Paper
C37		.02 mfd. Paper
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

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.

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.