

Service Data

Radiola 241

ELECTRICAL SPECIFICATIONS.

Voltage Rating	190-260 Volts A.C.
Frequency Rating	50-60 Cycles.
(Special instruments made for other voltage and frequency ratings.)	
Power Consumption	80 Watts.
Tuning Ranges—	
190 - 555 Metres.	
35 - 100 Metres.	
16.5 - 44 Metres.	
Intermediate Frequency	465 K.C.

CIRCUITS.

This Radiola is a six-valve all-wave superheterodyne, as follows :

- 6D6 R.F. Amplifier.
- 6A7 Detector-oscillator.
- 6D6 I.F. Amplifier.
- 6B7 Detector, A.V.C., and Audio Amplifier.
- 42 Output Pentode.
- 80 Rectifier.

VALVE SOCKET VOLTAGES.

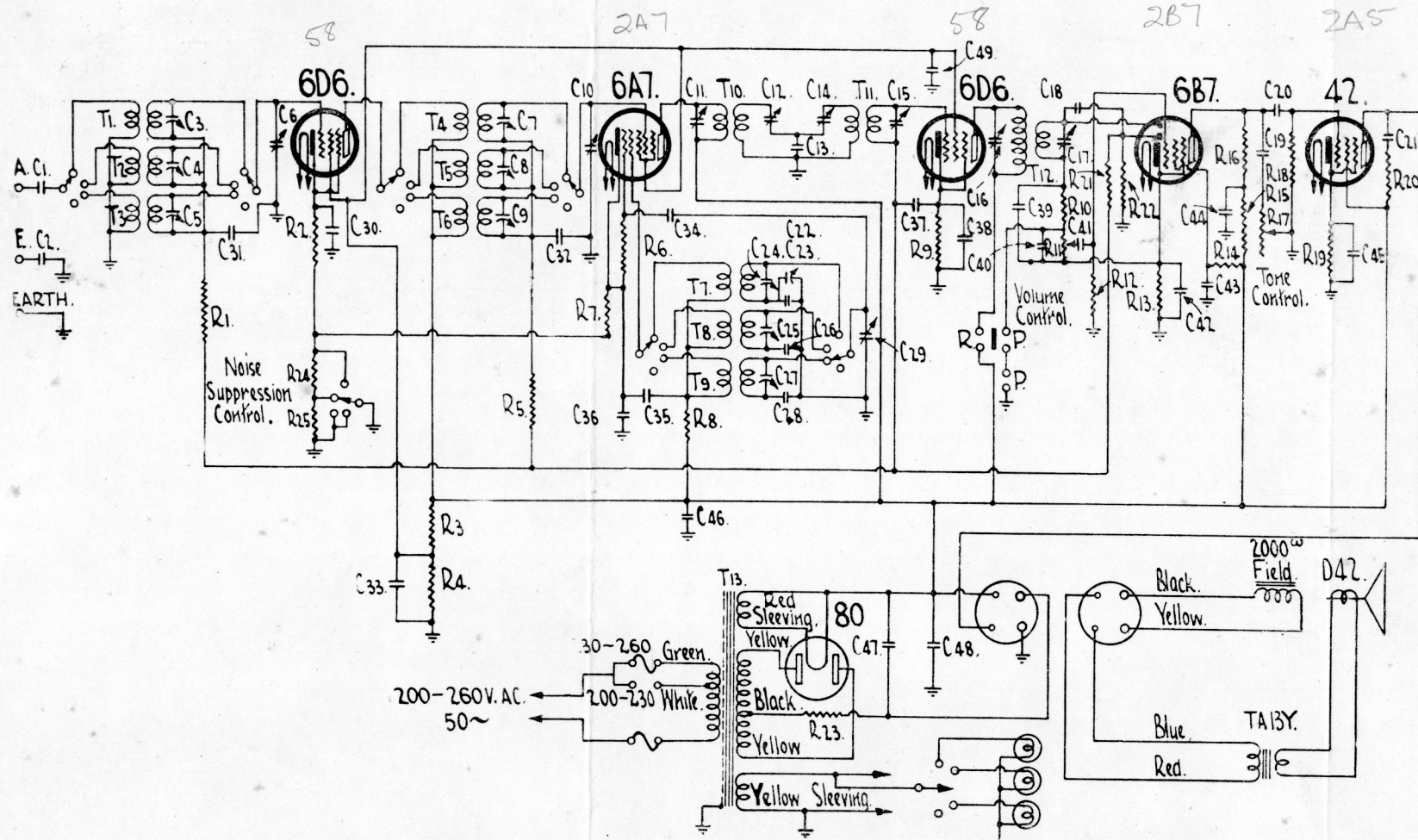
240 Volts, 50 Cycle A.C. Supply.

VALVE.	Cathode to Chassis Volts.	Cathode to Screen Grid Volts.	Cathode to Plate Volts.	Plate Current M.A.	Heater Volts.
6D6 R.F.	2.5	85	250	7.0	6.3
6A7 Detector	2.1	85	250	2.5	6.3
Oscillator	—	—	185	2.5	—
6D6 I.F.	2.5	85	250	7.0	6.3
6B7 Detector	1.6	25	90	0.8	6.3
42 Pentode	15	235	220	30	6.3
80 Rectifier—800/400 volts, 70 m.a., total current					5.0

Voltage across Loudspeaker Field, 140 volts.

Code	COILS.	Code	RESISTORS.	Code	CONDENSERS.
T1	Aerial Coil, 190-555 metres	R1	100,000 ohms, $\frac{1}{3}$ watt	C1	500 mmfd. Mica High Vltg. Test
T2	Aerial Coil, 35-100 metres	R2	300 ohms, $\frac{1}{3}$ watt	C2	500 mmfd. Mica High Vltg. Test
T3	Aerial Coil, 16.5-44 metres	R3	11,000 ohms, $\frac{3}{4}$ watts	C3	5-20 mmfd. Mica Trimmer
T4	R.F. Coil, 190-555 metres	R4	11,000 ohms, $\frac{3}{4}$ watts	C4	5-20 mmfd. Mica Trimmer
T5	R.F. Coil, 35-100 metres	R5	100,000 ohms, $\frac{1}{3}$ watt	C5	10-50 mmfd. Mica Trimmer
T6	R.F. Coil, 16.5-44 metres	R6	60,000 ohms, $\frac{1}{3}$ watt	C6	Variable Condenser
T7	Oscillator Coil, 190-555 metres	R7	300 ohms, $\frac{1}{3}$ watt	C7	5-20 mmfd. Mica Trimmer
T8	Oscillator Coil, 35-100 metres	R8	20,000 ohms, $\frac{1}{3}$ watt	C8	5-20 mmfd. Mica Trimmer
T9	Oscillator Coil, 16.5-44 metres	R9	300 ohms, $\frac{1}{3}$ watt	C9	10-50 mmfd. Mica Trimmer
T10	First I.F. Transformer	R10	100,000 ohms, $\frac{1}{3}$ watt	C10	Variable Condenser
T11	Second I.F. Transformer	R11	250,000 ohms, Volume Control	C11	10-90 mmfd. I.F. Trimmer
T12	Third I.F. Transformer	R12	$1\frac{3}{4}$ megohms, $\frac{1}{3}$ watt	C12	10-90 mmfd. I.F. Trimmer
T13	Power Transformer	R13	3,000 ohms, 1 watt	C13	.003 mfd. Paper Tubular Condr.
		R14	1 megohm, 1 watt	C14	10-90 mmfd. I.F. Trimmer
		R15	60,000 ohms, $\frac{1}{3}$ watt	C15	10-90 mmfd. I.F. Trimmer
		R16	100,000 ohms, 1 watt	C16	10-90 mmfd. I.F. Trimmer
		R17	250,000 ohms, Tone Control	C17	10-90 mmfd. I.F. Trimmer
		R18	300,000 ohms, $\frac{1}{3}$ watt	C18	700 mmfd. Mica Trimmer
		R19	400 ohms, 1 watt	C19	.01 mfd. Paper Tubular Condr.
		R20	20,000 ohms, $\frac{1}{3}$ watt	C20	.05 mfd. Paper Tubular Condr.
		R21	$1\frac{3}{4}$ megohms, $\frac{1}{3}$ watt	C21	.01 mfd. Paper Tubular Condr.
		R22	$1\frac{3}{4}$ megohms, $\frac{1}{3}$ watt	C22	190-555m. 10-50 mmfd. Pd. Tr.
		R23	500 ohms, Wire Wound	C23	330 mmfd. Padding Condenser
		R24	500 ohms, $\frac{1}{2}$ watt	C24	5-20 mmfd. Mica Trimmer
		R25	800 ohms, $\frac{1}{2}$ watt	C25	5-20 mmfd. Mica Trimmer
				C26	1800 mmfd. Padding Condenser
				C27	5-20 mmfd. Mica Trimmer
				C28	2300 mmfd. Padding Condenser
				C29	Variable Condenser
				C30	.1 mfd. Paper Tubular Condr.
				C31	.05 mfd. Paper Tubular Condr.
				C32	.05 mfd. Paper Tubular Condr.
				C33	.1 mfd. Paper Tubular Condr.
				C34	50 mmfd. Mica Condenser
				C35	.05 mfd. Paper Tubular Condr.
				C36	.1 mfd. Paper Tubular Condr.
				C37	.05 mfd. Paper Tubular Condr.
				C38	.25 mfd. Paper Tubular Condr.
				C39	100 mmfd. Mica Condenser
				C40	100 mmfd. Mica Condenser
				C41	.05 mfd. Paper Tubular Condr.
				C42	5 mfd. 25v. Electrolytic Condr.
				C43	.1 mfd. Paper Tubular Condr.
				C44	.25 mfd. Paper Tubular Condr.
				C45	25 mfd. 25v. Electrolytic Condr.
				C46	.5 mfd. Paper Tubular Condr.
				C47	8 mfd. 500v. Electrolytic Condr.
				C48	8 mfd. 500v. Electrolytic Condr.
				C49	.05 mfd. Paper Tubular Condr.

SUT SKYSCRAPER XS



CIRCUIT DATA, RADIOLA 241