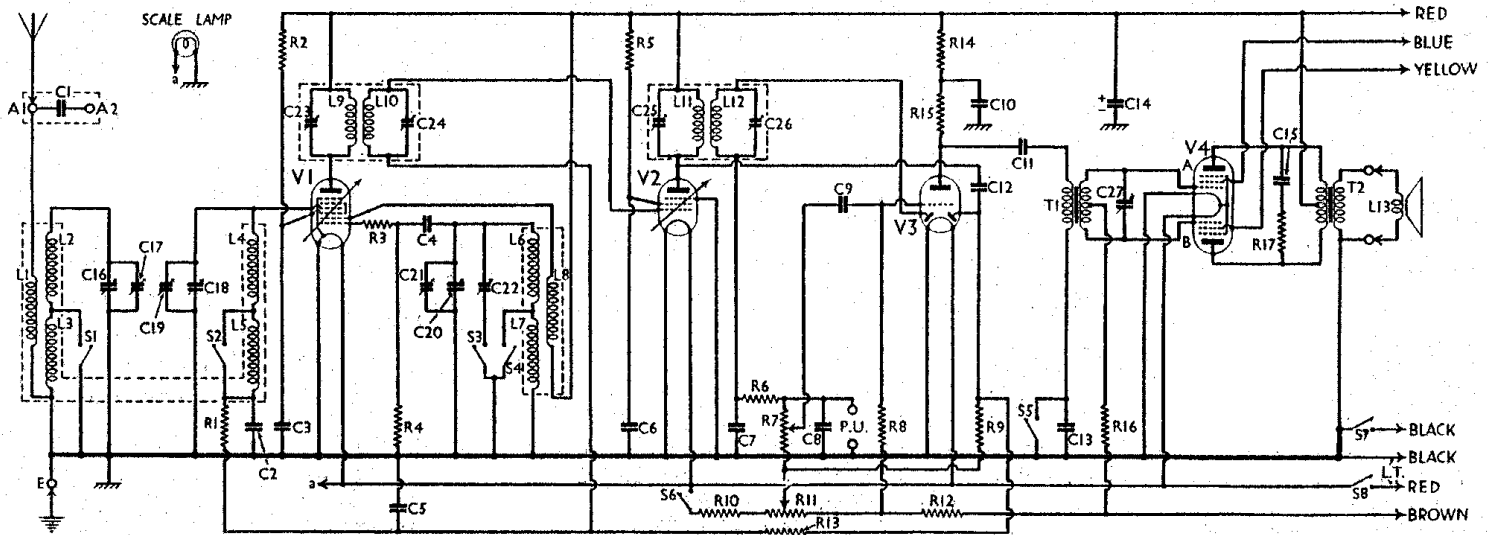


EVER READY - 5007



Circuit diagram of the Ever Ready Model 5007 battery superhet. V4 is a double-pentode, fitted with a 9-pin base. Note that L1-L5 are all contained in a single screening can, indicated by the dotted line.

COMPONENTS AND VALUES

Resistances	Values (ohms)
R1 V1 pent. cont. grid decoupling	11,000
R2 V1 S.G.'s H.T. feed	160,000
R3 V1 osc. grid series resistance	1,100
R4 V1 osc. grid resistance	110,000
R5 V2 S.G. H.T. feed	110,000
R6 I.F. stopper	110,000
R7 Volume control and diode load	500,000
R8 V3 triode grid resistance	1,100,000
R9 V3 A.V.C. diode load	1,100,000
R10 G.B. potential divider, including sensitivity control	100
R11 (R11)	280
R12 A.V.C. circuit decoupling	800
R13 V3 triode anode decoupling	1,100,000
R14 V3 triode anode resistance	11,000
R15 V3 triode anode resistance	31,000
R16 V4 grid circuit stabiliser	66,000
R17 Part of tone comp. filter	16,000

Condensers	Values (μF)
C1 Aerial series condenser	0.000015
C2 V1 pent. cont. grid decoupling	0.1
C3 V1 S.G.'s by-pass	0.1
C4 V1 osc. grid condenser	0.0001
C5 A.V.C. circuit decoupling	0.1
C6 V2 S.G. by-pass	0.1
C7 I.F. by-passes	0.0001
C8 I.F. by-passes	0.0001
C9 L.F. coupling to V3 triode	0.01
C10 V3 anode decoupling	0.5
C11 L.F. coupling to T1	0.1
C12 Coupling to V3 A.V.C. diode	0.0001
C13 Bass attenuator	0.01
C14* H.T. reservoir	8.0
C15 Part of tone comp. filter	0.0025
C16 Band-pass primary tuning	—
C17 Band-pass primary trimmer	—
C18 Band-pass secondary tuning	—
C19 Band-pass secondary trimmer	—
C20 Oscillator tuning	—
C21 Oscillator main trimmer	—
C22 Oscillator L.W. trimmer	—
C23 1st I.F. trans. pri. tuning	—
C24 1st I.F. trans. sec. tuning	—
C25 2nd I.F. trans. pri. tuning	—
C26 2nd I.F. trans. sec. tuning	—
C27 Variable tone control	—

* Electrolytic. † Pre-set condenser.

Other Components	Values (ohms)
L1 Aerial coupling coil	24.0
L2 Band-pass primary coils	2.3
L3 Band-pass primary coils	15.0
L4 Band-pass secondary coils	2.3
L5 Band-pass secondary coils	15.0
L6 Oscillator tuning coil	2.9
L7 Oscillator tuning coil	3.3
L8 Oscillator anode coil	45.0
L9 1st I.F. trans. { Pri. 93.0	
L10 { Sec. 93.0	
L11 2nd I.F. trans. { Pri. 42.0	
L12 { Sec. 42.0	
L13 Speaker speech coil	1.2
T1 Intervalve trans. { Pri. 1,000.0	
{ Sec. total. 8,500.0	
T2 Output trans. { Pri. total. 700.0	
{ Sec. 0.2	
S1-S4 Waveband switches	—
S5 Bass attenuator switch	—
S6 G.B. pot. divider switch	—
S7 H.T. switch	—
S8 L.T. switch	—

Valve	Anode Volts	Anode Current (mA)	Screen Volts	Screen Current (mA)
V1 K80A*	136.5	0.3	60	1.1
V2 K50M	136.5	0.9	100	0.3
V3 K23B	100.0	0.7	—	—
V4 K77A	136.5†	2.0†	111†	0.4†

* Osc. anode (G2) 136.5 V, 1.1 mA.
† Each section. ‡ In our chassis.

VALVE ANALYSIS

Readings given in the following table of valve voltages and currents are those supplied by Ever Ready. They were taken with no signal input, and with new batteries. Voltage readings are with chassis as negative, using a high resistance voltmeter.

In the case of V4, the screen voltage for each section of the valve depends on the letters marked on the base and bulb. These letters, P, Q, R, S or T, correspond with similarly marked sockets on the special H.T. battery. The blue H.T. lead corresponds to the "A" section of the valve, and the yellow to the "B" section. In the case of our chassis, both "A" and "B" sections required the Q tapping (111V).