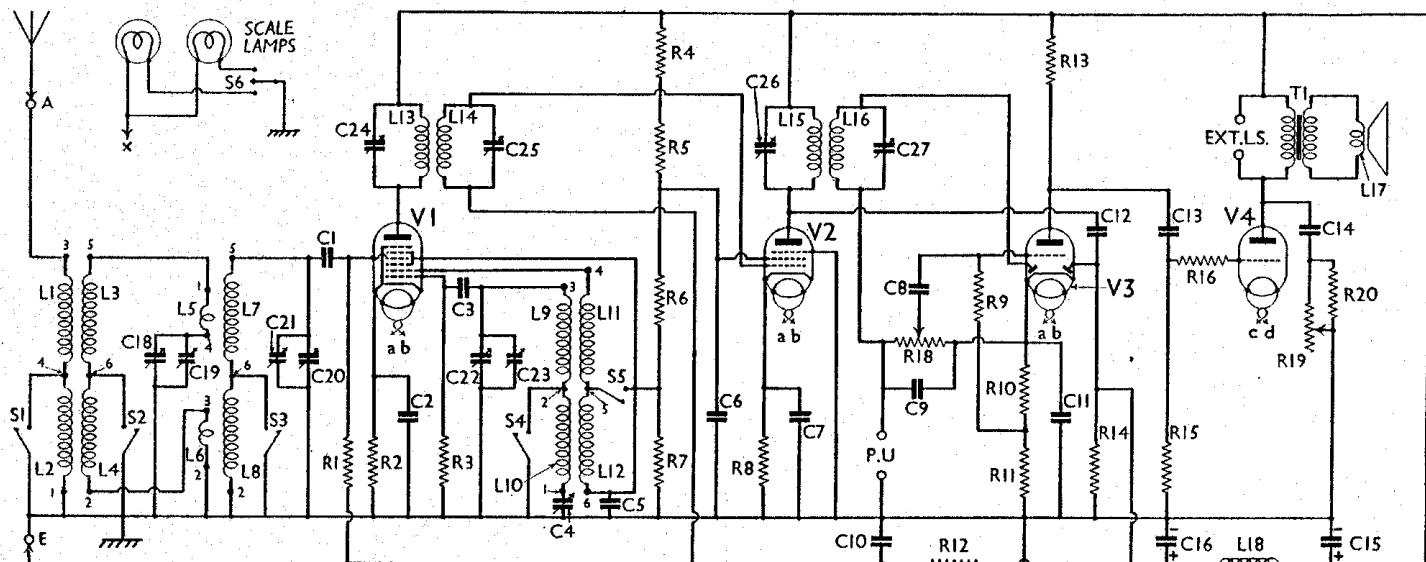
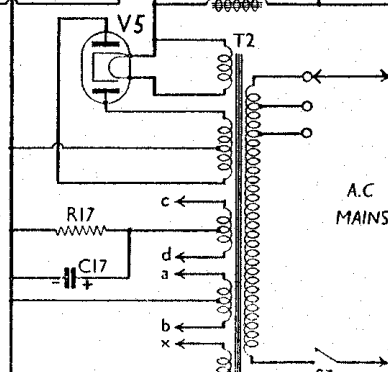


ATLAS 7-5-8



The circuit diagram of the Atlas "7-5-8" A.C. superhet. Switch S5 does not appear in chassis numbered below about 3000. The numbers at the ends and junctions of the coils refer to the tags on the coil units, shown diagrammatically overleaf. Note that the output triode derives its filament supply from a separate winding on the mains transformer, while the scale lamps also run from their own winding. C4 comprises a pre-set condenser in parallel with a fixed one.



Resistances		Values (ohms)
R1	V1 grid resistance	2,000,000
R2	V1 fixed G.B. resistance	250
R3	V1 oscillator grid resistance	20,000
R4	H.T. potential divider supplying V1 osc. anode, V1 S.G.'s, and V2 S.G.	6,000
R5		7,000
R6		4,000
R7		30,000
R8	V2 fixed G.B. resistance	250
R9	V3 grid resistance	2,000,000
R10	V3 G.B. resistance and A.V.C.	2,000
R11	delay voltage droppers	5,000
R12	A.V.C. circuit decoupling	2,000,000
R13	V3 anode resistance	75,000
R14	A.V.C. diode load	1,000,000
R15	V4 grid resistance	1,000,000
R16	V4 grid H.F. stopper	250,000
R17	V4 G.B. resistance	500
R18	Vol. control and rect. diode load	500,000
R19	Tone control resistance (variable)	50,000
R20	Tone control shunt	5,000

Condensers		Values (μF)
C1	V1 grid condenser	0.0001
C2	V1 cathode by-pass	0.1
C3	V1 oscillator grid condenser	0.001
C4	Osc. L.W. padder { Fixed Pre-set	0.0002
C5	V1 osc. anode decoupling	0.25
C6	V2 S.G. by-pass	0.1
C7	V2 cathode by-pass	0.1
C8	L.F. coupling to V3	0.01
C9	Rectifier diode reservoir	0.0002
C10	A.V.C. circuit decoupling	0.05
C11	V3 cathode by-pass	0.5
C12	A.V.C. diode coupling	0.0002
C13	L.F. coupling to V4	0.01
C14	Tone control condenser	0.25
C15	H.T. smoothing, electrolytic	6.0
C16		10.0
C17	V4 G.B. resistance by-pass	25.0
C18	Band-pass pri. tuning	—
C19	Band-pass pri. trimmer, pre-set	—
C20	Band-pass sec. tuning	—
C21	Band-pass sec. trimmer, pre-set	—
C22	Oscillator tuning	—
C23	Oscillator trimmer, pre-set	—
C24	1st I.F. trans. pri. tuning, pre-set	—
C25	1st I.F. trans. sec. tuning, pre-set	—
C26	2nd I.F. trans. pri. tuning, pre-set	—
C27	2nd I.F. trans. sec. tuning pre-set	—

Other Components		Values (ohms)
L1	Aerial coupling coils	10.0
L2		100.0
L3		3.75
L4		10.0
L5	Band-pass primary coils	0.1
L6		1.8
L7	Band-pass secondary coils	3.75
L8		12.0
L9	Oscillator grid coils	5.25
L10		7.5
L11	Oscillator reaction coils	250.0
L12		360.0
L13	1st I.F. transformer	67.0
L14		67.0
L15	2nd I.F. transformer	67.0
L16		67.0
L17	Speaker speech coil	2.5
L18	Speaker field	2500.0
T1	Speaker input trans. { Pri. Sec.	120.0 0.3
T2	Mains trans. { Pri. total Heater sec. V4 fil. sec. Lamp sec. Rect. fil. sec. H.T. sec.	23.0 0.05 0.1 0.2 0.05 440.0
S1-S5	Waveband switches, ganged	—
S6	Scale lamp switch	—
S7	Mains switch (ganged R18)	—

Valve	Screen		Anode	Anode
	Current (mA)	Volts	Current (mA)	Volts
V1 FC4*	4.0	75	1.7	250
V2 VP1	2.1	105	4.8	250
V3 1D14	—	—	1.6	120
V4 AC644	—	—	46.5	245
V5 1W3	—	—	330f	330f

*Osc. anode (G2) 75 V 1.5 mA. † Each anode A.C.

Sketches of the alternative waveband and scale lamp switch panels. That containing S5 occurs in chassis numbered above 3000. Earlier chassis only had the four waveband switches, S1-S4.

