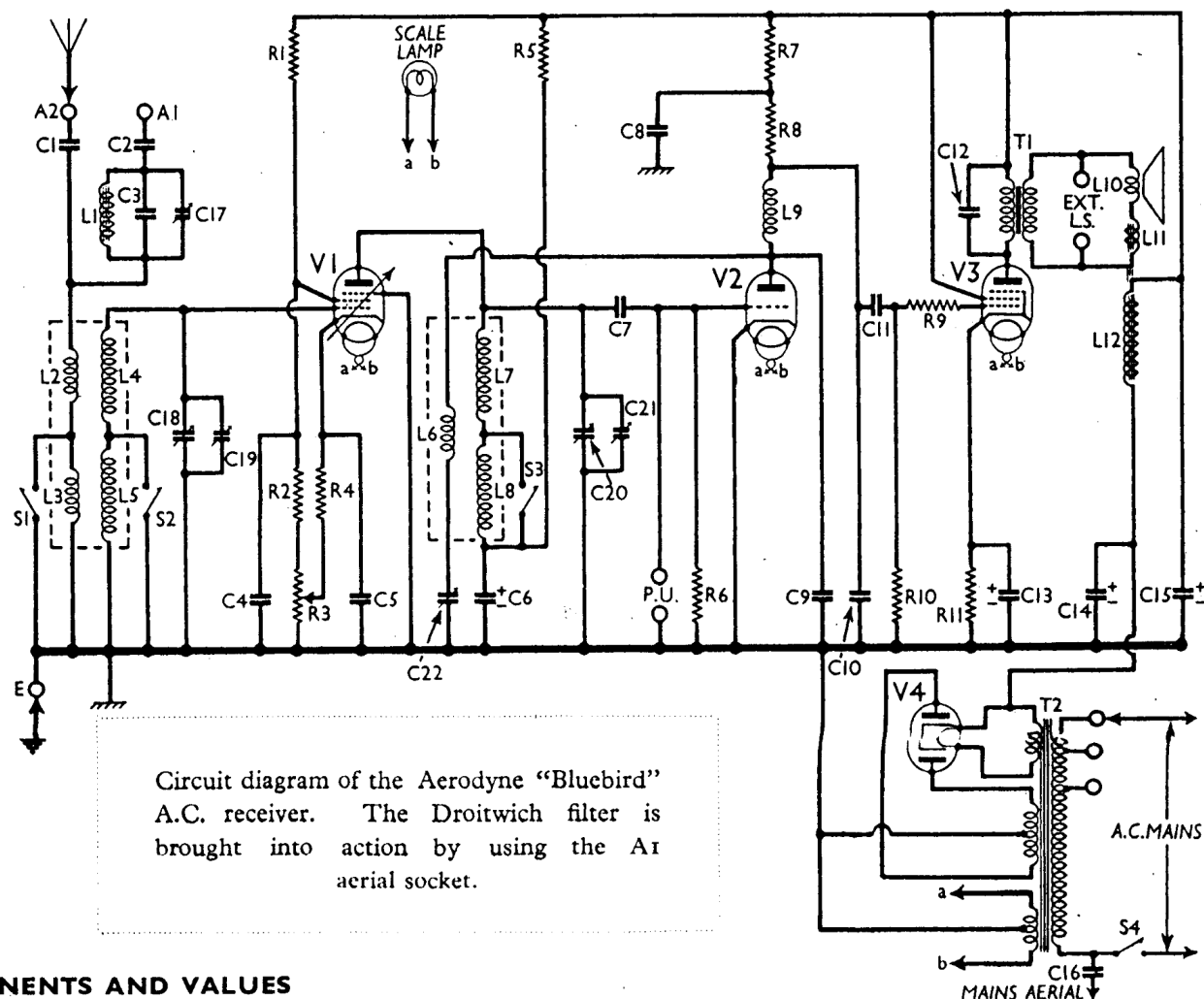


AERODYNE - BLUEBIRD



COMPONENTS AND VALUES

Condensers		Values (μF)
C1	Aerial series condensers	0.0001
C2		0.0005
C3		0.003
C4	V1 S.G. by-pass	0.1
C5	V1 cathode by-pass	0.1
C6*	V1 anode decoupling	1.0
C7	V2 grid condenser	0.00005
C8	V2 anode decoupling	1.0
C9	V2 anode H.F. by-passes	0.0005
C10		0.0005
C11	L.F. coupling to V3	0.01
C12	Tone corrector	0.01
C13*	V3 cathode by-pass	25.0
C14*	H.T. smoothing	8.0
C15*		8.0
C16	Mains aerial coupling	0.0002
C17†	Droitwich wave-trap tuning	0.002
C18†	Aerial circuit tuning	0.0005
C19†	Aerial circuit trimmer	—
C20†	V1 anode circuit tuning	0.0005
C21†	V1 anode circuit trimmer	—
C22†	Reaction control	0.0003

* Electrolytic † Variable ‡ Pre-set

Resistances		Values (ohms)
R1	V1 S.G. H.T. potential divider	15,000
R2		20,000
R3		8,000
R4	V1 gain control	100
R5	V1 fixed G.B. resistance	3,000
R6	V1 anode decoupling	1,000,000
R7	V2 grid leak	20,000
R8	V2 anode decoupling	50,000
R9	V2 anode load	50,000
R10	V3 grid H.F. stopper	500,000
R11	V3 grid resistance	140

Other Components		Values (ohms)
L1	Droitwich wave-trap coil	2.2
L2		0.75
L3	Aerial coupling coils	14.25
L4		3.5
L5		13.0
L6	Reaction coil	6.5
L7	V1 anode tuning coils	3.5
L8		14.5
L9	V2 anode H.F. choke	200.0
L10	Speaker speech coil	1.75
L11	Hum neutralising coil	0.05
L12	Speaker field coil	1,500.0
T1	Speaker input trans.	750.0
T2	Mains trans.	26.0
S1-S3	Waveband switches	—
S4	Mains switch, ganged R3	—

VALVE ANALYSIS

Readings of valve voltages and currents given in the table below were taken with the receiver operating on 220V A.C. mains, with the transformer on the 230 V tap. The volume control was at maximum, while reaction was at minimum, and there was no signal input. Voltages were measured on the 1,200 V scale of an Avometer, with chassis as negative.

Valve	Anode Volts	Anode Current (mA)	Screen Volts	Screen Current (mA)
V1 VP4B	210	7.4	135	2.7
V2 354V	85	2.8	—	—
V3 Pen4VB	210	30.0	230	3.4
V4 R3	265†	—	—	—

†Each anode, A.C.

GENERAL NOTES

Switches.—S1-S3 are the waveband switches, in a single unit, and they are all closed on the M.W. band and open on the L.W. band. Note that S1 and S2 each have one common contact.

S4 is the Q.M.B. mains switch, ganged with the volume control R3.

Coils. L1 is the Droitwich wave-trap coil, mounted beneath the chassis. L2-L8 are in two screened units on the chassis deck, and L9 is an H.F. choke, beneath the chassis.

Scale Lamp.—This is an Osram M.E.S. type, rated at 6.2 V, 0.3 A.