



The circuit of the G.E.C. Superhet 5 (A.C.). Trimmers are indicated, but not lettered or numbered. The dotted lines round the coils indicate the coil screens.

## COMPONENTS AND VALUES

Condensers		Value ( $\mu\text{f}$ )
C1	Series aerial ... ..	0001
C2	Coupling and 2nd channel suppr. ... ..	000025
C3*	V1 S.G. by-pass ... ..	1
C4	V1 cathode by-pass ... ..	005
C5*	V1 anode decoupling ... ..	11
C6*	V2 cathode by-pass ... ..	25
C7*	V2 S.G. by-pass ... ..	25
C8*	V3 S.G. by-pass ... ..	25
C9	V3 anode by-pass ... ..	0001
C10	L.F. coupling to V4 ... ..	01
C11*	V3 anode decoupling ... ..	11
C12	V3 anode by-pass ... ..	0001
C13*	Coupling to external speaker	25
C14	Tone control capacity ... ..	04
C15	External speaker by-pass ... ..	001
C16*	V3 cathode by-pass ... ..	25
C17*	V4 G.B. circuit by-pass ... ..	3
C18	H.T. smoothing (electrolytic)	800
C19	H.T. smoothing (electrolytic)	800
C20†	} Oscillator padding capacities	00135
C21†		00145
		00125
		00135
C22*	V3 grid decoupling ... ..	25
C23	Mains buffer ... ..	01 + 01
C24	Primary band-pass tuning ... ..	—
C25	Secondary band-pass tuning ... ..	—
C26	Oscillator tuning ... ..	—

\* In condenser block. † Between the values given.

**NOTE.**—The above list includes all

GEC  
Superhet 5

Valve	Anode Volts	Anode Current (mA)	Screen Volts	Screen Current (mA)
V <sub>1</sub> 6X4	240-260	1-1.5	80-90	—
V <sub>2</sub> 6V6	275-285†	6-8†	80-90†	—
V <sub>3</sub> 6X4	285-295‡	Very small‡	115-125‡	—
V <sub>4</sub> 6X4	90-100	0.2-0.4	90	—
V <sub>5</sub> 6P6	245-255	30-32	270-280	6-7
V <sub>6</sub> 6U6	300*(AC)	—	—	—

† Volume control at max. ‡ Volume control at min.  
\* Each angle.

- Nach anw.

Resistances		Value (ohms)
R1*	Part of V1 S.G. pot. divider ..	88,000
R2*	V1 anode decoupling ..	20,000
R3	V1 cathode resistance ..	2,500
R4*	} V2 S.G. pot. divider ..	24,000
R5*		13,000
R6	Fixed part of V2 G.B. resistance	150
R7	V3 grid decoupling .. ..	33,000
R8*	} V3 S.G. pot. divider ..	88,000
R9*		55,000
R10*	V3 G.B. resistance ..	8,800
R11	V3 anode H.F. stopper ..	33,000
R12*	V3 anode resistance .. ..	200,000
R13*	V3 anode decoupling ..	33,000
R14*	V4 grid resistance .. ..	420,000
R15*	} V4 G.B. pot. divider ..	125,000
R16*		420,000
R17*	Part of V1 S.G. pot. divider ..	44,000
R18	Artificial output load ..	8
R19	Part of V2 bias circuit ..	9,900
R20	Tone control (variable) ..	50,000
R21	Volume control (variable) ..	10,000

\* On resistance panel.

Component		Value* (ohms) (approx.)
L1	Pri. bandpass and aerial coils	—
L2	Sec. bandpass and B.P. coupling coils .. ..	—
L3	Oscillator and osc. coupling coils .. ..	—
L4	Speaker field coil .. ..	1,300
L5	Speaker speech coil .. ..	28
T1	1st I.F. trans. { Pri. .. .. Sec. .. ..	82.5 82.5
T2	2nd I.F. trans. { Pri. .. .. Sec. .. ..	81 81
T3	Speaker input trans. { Pri. .. .. Sec. ... ..	440 5
	{ Pri. (total) .. ..	40
T4	Mains { Sec. 1 Rect. Fil. .. ..	15†
	Trans. { Sec. 2 Rect. H.T. (total)	415†
	Sec. 3 Heaters (total)	15†
F	Filter in 2nd det. plate-cath. circuit .. ..	—
S1, S2 S3, S4 S5 S6 S7	} Waveband ganged switches .. External speaker switch .. Mains switch (ganged with R21) .. ..	— — —

\* Approx. values obtained from our sample receiver.

† Measured by plugging ohmmeter into appropriate valve-holders.