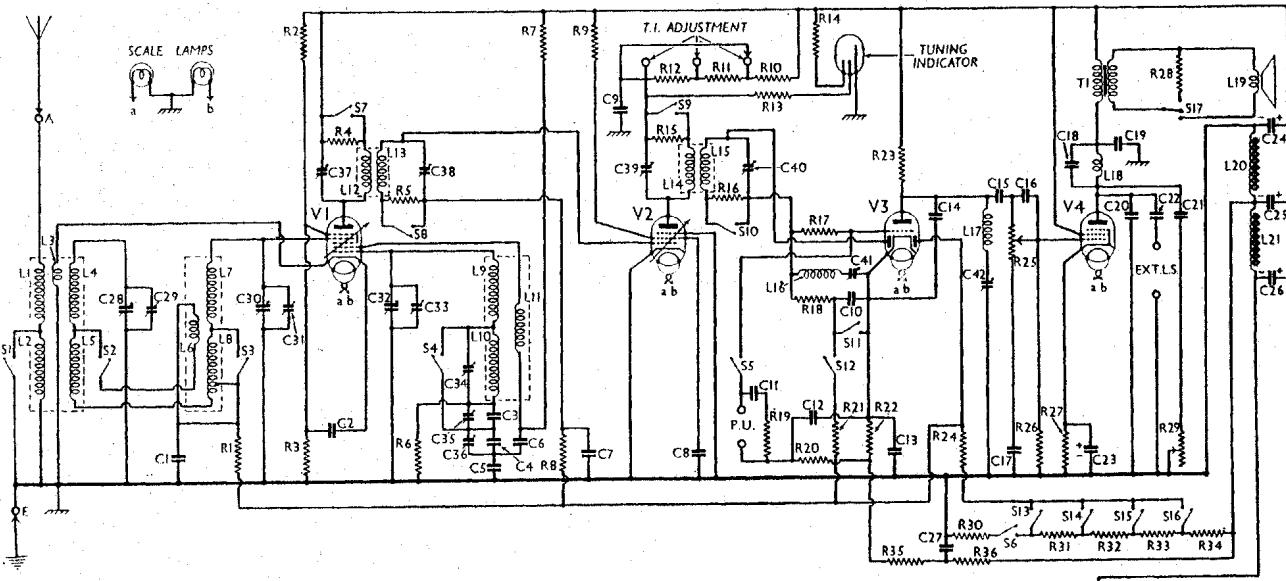


G.E.C. - FIDELITY FIVE



COMPONENTS AND VALUES

Resistances		Values (ohms)
R1	V1 cont. grid decoupling	99,000
R2	V1 S.G.'s pot. divider	50,000
R3		30,000
R4	1st I.F. trans. damping	990
R5		990
R6	V1 osc. grid resistance	99,000
R7	V1 osc. anode decoupling	44,000
R8	V2 cont. grid decoupling	99,000
R9	V2 S.G. H.T. feed	77,000
R10		15,000
R11	Neon tuning indicator feed	5,500
R12	resistances	5,500
R13		20,000
R14		1,000,000
R15	2nd I.F. trans. damping	990
R16		990
R17	V3 triode grid I.F. stopper	99,000
R18	V3 rectifier diode load	440,000
R19*	Part of pick-up shunt circuit	22,000
R20*	Gram pick-up decoupling	220,000
R21	Part of muting circuit	220,000
R22	V3 G.B. resistance (gram. only)	990
R23	V3 anode resistance	27,000
R24	V3 A.V.C. diode load	440,000
R25	Manual volume control	500,000
R26	V4 grid resistance	330,000
R27	V4 G.B. resistance	300
R28	Artificial output load	8
R29	Variable tone control	50,000
R30		5,000
R31	Potential divider across	1,500
R32	speaker field winding	3,000
R33		4,000
R34		99,000
R35	Amplified A.V.C. circuit	20,000
R36	voltage-dropping resistances	33,000

* Not in our chassis.

The circuit of the G.E.C. Fidelity Five models. This is actually the radiogram circuit, but the table model is similar, except for slight omissions in the pick-up circuit, and the exclusion of S6, R30 being permanently joined to R31.

Condensers (contd.)		Values (μF)
C33†	Oscillator main trimmer	—
C34†	Oscillator L.W. trimmer	—
C35†	Oscillator L.W. tracker	—
C36†	Oscillator M.W. tracker	—
C37†	1st I.F. trans. pri. tuning	—
C38†	1st I.F. trans. sec. tuning	—
C39†	2nd I.F. trans. pri. tuning	—
C40†	2nd I.F. trans. sec. tuning	—
C41†	Part of I.F. filter	—
C42†	Part of V3 anode whistle filter	—

† Not in our chassis * Electrolytics
‡ Pre-set condensers x May be 0.02 μF

Other Components		Values (ohms)
L1	Aerial coupling coils	6.0
L2		100.5
L3	Image rejection coil	0.27
L4	Band-pass primary coils	5.3
L5		49.3
L6	Band-pass coupling coil	0.08
L7		5.2
L8	Band-pass secondary coils	49.5
L9	Oscillator grid coils	4.3
L10		27.0
L11	Oscillator anode coil	2.2
L12	1st I.F. transformer { Pri.	82.5
L13	Sec.	82.5
L14	2nd I.F. transformer { Pri.	82.5
L15	Sec.	82.5
L16	I.F. filter coil	38.0
L17	Whistle filter coil	36.0
L18	V4 anode filter coil	400.0
L19	Speaker speech coil	1.9
L20	Speaker field winding	1,400
L21	Extra H.T. smoothing choke	400.0
T1	Speaker input trans. { Pri.	300.0
	Sec.	0.35
T2	Mains trans. { Pri. total	41.0
	Heater sec.	0.08
	Rect. fil. sec.	0.12
S1-S4	H.T. sec.	540.0
S5	Waveband switches, ganged	—
S6*	Gram. pick-up switch	—
S7-S16	Radio muting switch on gram.	—
S7	Muting and fidelity switches	—
S17	Internal speaker switch	—
S18	Mains switch, ganged R25	—

* Not in our chassis.

VALVE ANALYSIS

Valve voltage and current readings given in the table below were taken with the aerial disconnected and with the muting-fidelity switch set at "normal." Voltage readings were taken with the chassis as negative, and since the voltmeter used was an electrostatic type, slightly lower readings may be obtained on other types of instruments. The figures are those given by the manufacturers.

Valve	Anode Volts	Anode Current (mA)	Screen Volts	Screen Current (mA)
V1 MX40*	235	3.0	70	1.3
V2 VMP4G	175	3.5	65	2.0
V3 MHD4	100	2.0	—	—
V4 MPT4	210	32.0	235	6.0
V5 U12†	320†	—	—	—

* Osc. anode (G2) 150V, 2mA.

† Each anode, A.C.

GENERAL NOTES

Switches.—There are no fewer than 18 switches in this set, of which S17 is the internal speaker switch, at the top back of the cabinet, and S18 is the mains switch ganged with the volume control.

S1-S5 are in one unit operated by a spindle mounted from front to back of the chassis, and indicated in our under-chassis view. Of these, S1-S4 are the waveband switches, and S5 the radiogram switch. Radiogram models also contain an additional switch S6, operated by the same spindle, and mounted between S3 and S4. This switch is not seen in our chassis views.

The following table gives the positions for S1-S6. O indicates open, and C, closed.

Switch	M.W.	L.W.	Gram
S1	C	O	O
S2	C	O	C
S3	C	O	C
S4	O	O	C
S5	O	O	C
S6*	C	C	O

*Not included in table models.

