

Transistor Table

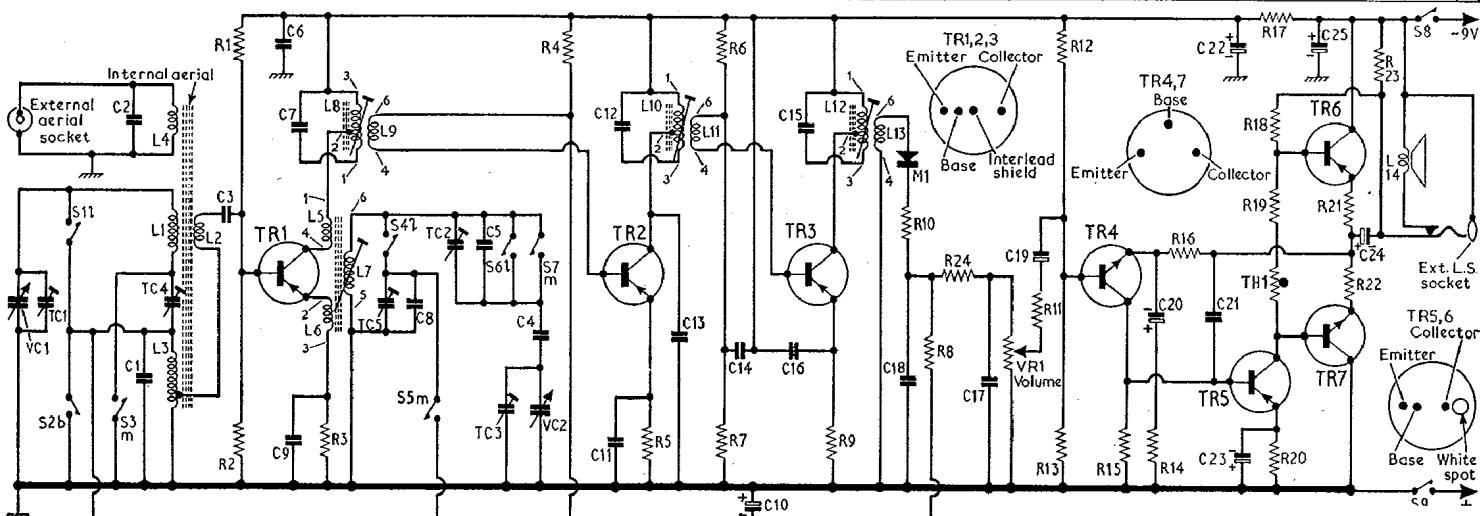
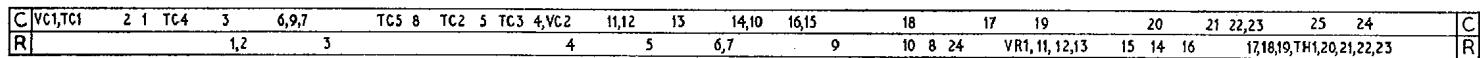
G.E.C. - G822

Resistors			Capacitors		
R1	33kΩ	C2	R20	150Ω	C2
R2	6.8kΩ	C2	R21	3.3Ω	C2
R3	1kΩ	B2	R22	3.3Ω	C2
R4	68kΩ	B3	R23	330Ω	D3
R5	680Ω	VR1	R24*	1kΩ	C3
R6	22kΩ	B3	VR1	5kΩ	D1
R7	4.7kΩ	C3	C13	300pF	B3
R8	10kΩ	B3	C14	0.02μF	B3
R9	680Ω	C3	C15	250pF	C3
R10	1kΩ	C3	C16	0.02μF	C3
R11	2.2kΩ	D2	C17*	0.01μF	D3
R12	18kΩ	D2	C18	0.01μF	C3
R13	22kΩ	D2	C19	10μF	C2
R14	4.7Ω	C2	C20	100μF	C2
R15	1kΩ	C1	C21*	1,800pF	C2
R16	1kΩ	C1	C22	160μF	D3
R17	560Ω	C2	TC1	15pF	C2
R18	1.5kΩ	C3	TC2	15pF	B1
R19	56Ω	C2	TC3	15pF	B2
			TC4	15pF	C2
			TC5	25pF	C1
			VC1	118pF	B2
			VC2	118pF	B2

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1	AF117	1.1	1.2
TR2	AF117	0.6	0.9
TR3	AF117	0.9	1.2
TR4	AC127	3.9	3.6
TR5	OC81D	0.4	0.6
TR6	OC81	4.6	4.7
TR7	AC127	4.5	4.4

Coils	Miscellaneous
L1	L12
L2	L13
L3	L14
L4	—
L5	25Ω
L6	C3
L7	C3
L8	D2
L9	A1
L10	D2
L11	C2
L12	C3
L13	D2
M1	C3
S1-S7	—
S8, S9	—
TH1	C2
VR1	VA1034

* See "General Notes".



CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator with a low impedance output, modulated 30 per cent; a 0-100mW output meter with an impedance of 25Ω; a 0.01μF capacitor; a length of insulated wire for use as a coupling loop and suitable insulated trimming tools.

During alignment the output should be limited to 50mW by adjustment of the input signal level. All cores should be tuned to the outer peak.

1.—Connect the signal generator via the 0.01μF capacitor to the base of TR1. Connect the audio output meter in place of the loudspeaker and turn the volume control to maximum.

2.—Switch receiver to m.w. Feed in a 470kc/s signal and adjust the cores of L12, L10 and L8 in that order for maximum output. Repeat until there is no further improvement.

3.—Disconnect the signal generator from TR1 base and connect it to the r.f. coupling loop. Loosely couple the loop to the ferrite rod aerial. Tune receiver to 500m (dot on scale), feed in a 600kc/s signal and adjust L7 and L1 for maximum output.

4.—Tune receiver to 208m (dot on scale), feed in a 1,440kc/s signal and adjust TC3 and TC1 for maximum output.

5.—Repeat operations 3 and 4 until there is no further improvement.

6.—Switch receiver to l.w. and tune to 1,765m. Feed in a 170kc/s signal and adjust TC5 and L3 for maximum output.

7.—Switch receiver to bandspread and tune to 208m (dot on scale). Feed in a 1,440kc/s signal and adjust TC2 and TC4 for maximum output. Check that TC4 adjustment holds good when the trimming tool is withdrawn.

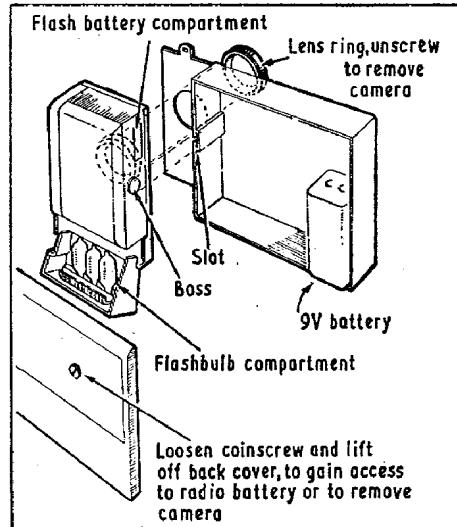


Illustration showing details for the removal of the receiver back cover and camera unit