Resistors

R1	—	†
R2	2·2kΩ	B3
R3	22kΩ	B3
R4	6·8kΩ	A3
R5	47kΩ	B3
R6	120Ω	E5
R7	470Ω	B2
R8	6·8kΩ	E4
R9	470Ω	B2
R10	5kΩ	A1
R11	220Ω	B2
R12	15kΩ	C1
R13	6·8kΩ	B2
R14	220Ω	C2
R15	1kΩ	B1
R16	3·9kΩ	C1
R17	180Ω	C1
R18	10Ω	C1
R19	180Ω	D2
R20*	47kΩ	E4

Capacitors

C1	1,200pF	B1
C2	196pF	B2
C3	10pF	B2
C4	180pF	A3
C5	66pF	A2
C6	10pF	A2
C7	0·01μF	A3
C8	0·01μF	B3
C9	200pF	B2
C10	0·01μF	B3
C11	8μF	C3
C12	200pF	E5
C13	200pF	B2
C14	0·1μF	B2
C15	50μF	B2
C16	62pF	E4
C17	200pF	B2
C18	0·1μF	B2
C19	0·05μF	F4
C20	1μF	B2
C21	0·01μF	C2
C22	50μF	B1
C23*	0·01μF	C2
C24	0·1μF	C2
C25	50μF	B2

Coils

L1	—	C1
L2	—	D1
L3	—	C1
L4	—	B3
L5	—	—

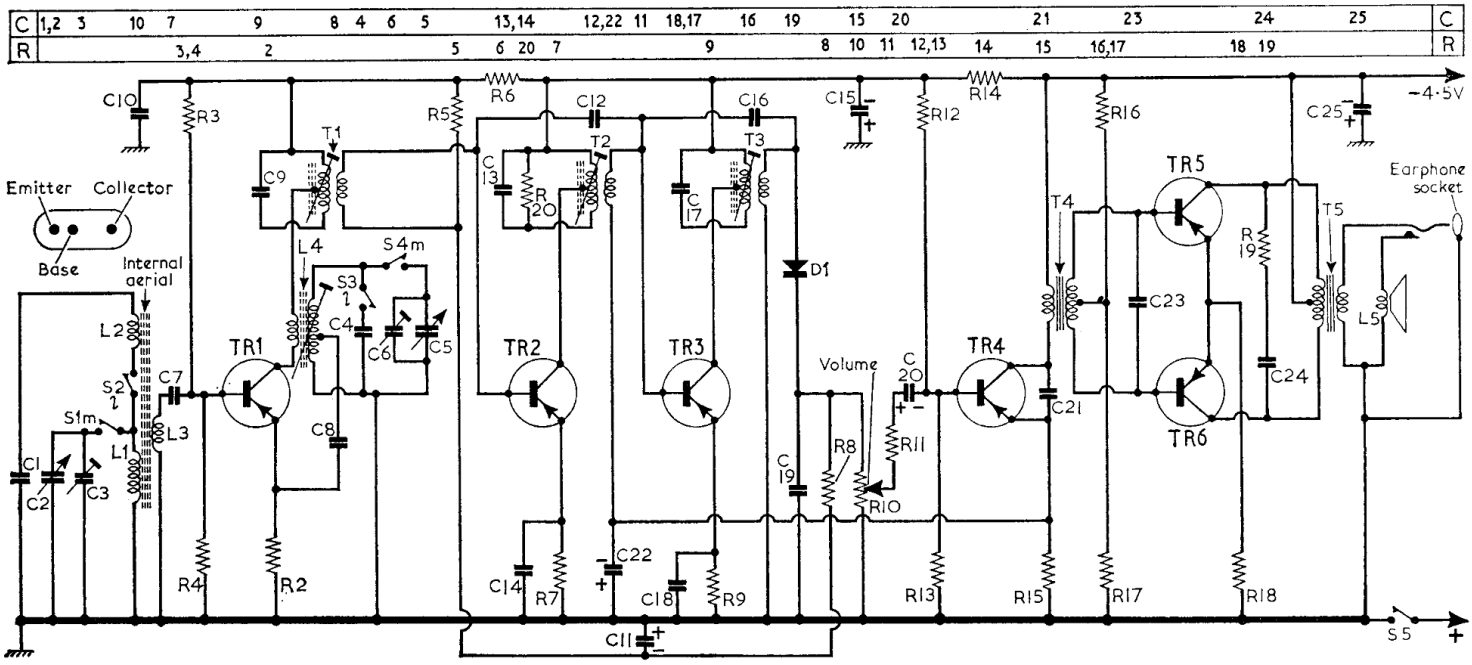
Transformers

T1	—	B2
T2	—	B2
T3	—	C2
T4	—	C2
T5	—	C2

Miscellaneous

S1-S4	—	A3
S5	—	A1
D1	OA90	B2

* *In some receivers only.*
† *No Component.*



CIRCUIT ALIGNMENT

Equipment Required.—An A.M. signal generator; an insulated wire coupling loop and a bladed type trimming tool.

1.—Switch to M.W. and turn the tuning gang to maximum capacitance. Disconnect **L3** from **C7** and connect the signal generator between the free end of **C7** and chassis.

2.—Feed in a 470kc/s modulated signal and adjust the cores of **T3, T2** and **T1** for maximum output.

3.—Switch to L.W. Feed in a 200kc/s signal and adjust the core of **L4** (location reference B3) for maximum output.

4.—Switch to M.W. and tune to 200m. Feed in a 1,500kc/s signal and adjust **C6** (A2) for maximum output.

5.—Tune to 500m. Disconnect the signal generator and reconnect **L3** to **C7**. Connect the coupling loop across the signal generator output leads and place the loop in line with the ferrite rod about 50cms away from the centre of the rod on the **L1** side.

6.—Feed in a 600kc/s signal and position **L1** on the ferrite rod for maximum output.

7.—Tune to 200m. Feed in a 1,500kc/s signal and adjust **C3** (B2) for maximum output.

8.—Repeat operations 5, 6 and 7 until the tracking is correct then seal **L1** in position with bitumen.

9.—Switch to L.W. Feed in a 200kc/s signal via the loop as in operation 5 and position **L2** on the ferrite rod for maximum output. Seal **L2** with bitumen.

TRANSISTOR ANALYSIS

Transistor voltages given in the table below were compiled from information supplied by the manufacturer. They were measured on an Avometer model 8. The receiver was switched to M.W. with the tuning gang at maximum capacitance. There was no signal input. All readings are negative with respect to chassis.

Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)	Collector (mA)
TR1 NKT152	0·8	0·85	3·7	0·5
TR2 NKT153	0·45	0·60	3·8	1·0
TR3 NKT154	0·70	0·85	3·8	1·5
TR4 NKT254	0·85	1·0	4·3	0·9
TR5, TR6 NKT251	0·05	0·2	4·45	2·0

Total current consumption; 6·9mA with no signal input.

PYE

P201BQ, P202BQ