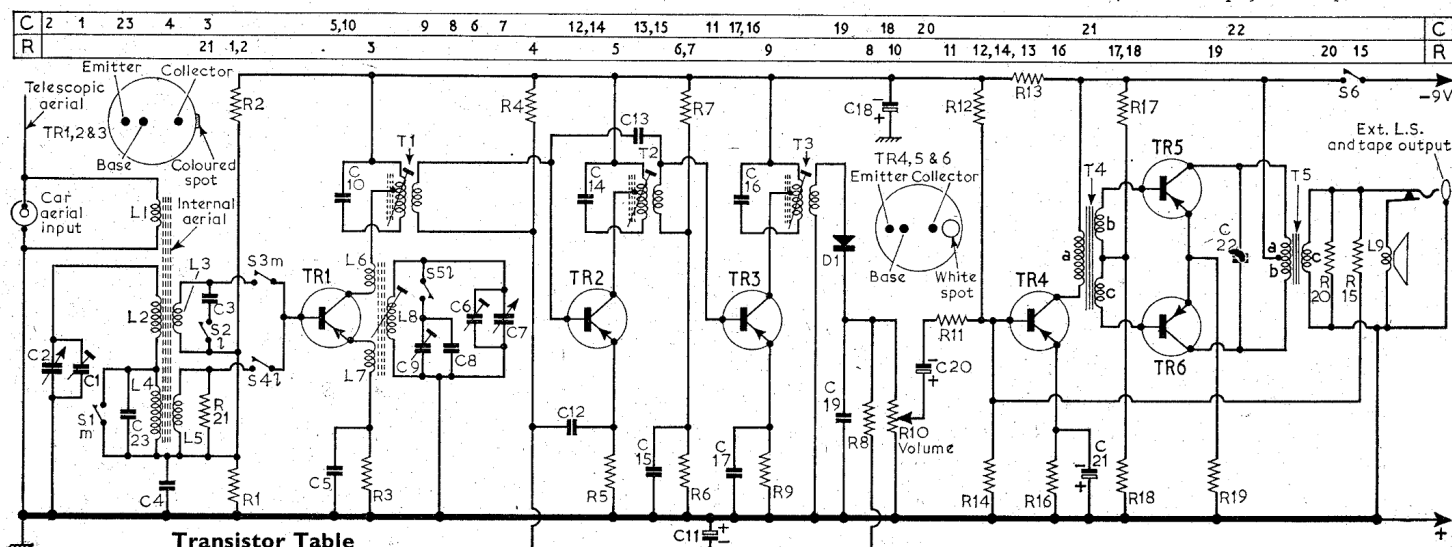


Resistors			R20	33Ω	E3	C17	0.05μF	D3	Transformers*		
R1	10kΩ	D3	R21	2kΩ	C3	C18	100μF	C3	T1	—	C3
R2	56kΩ	C3	Capacitors			C19	0.1μF	D3	T2	—	D3
R3	3.9kΩ	C3	C1	—	D3	C20	8μF	E3	T3	—	D3
R4	68kΩ	C3	C2	195pF	D3	C21	100μF	E3	T4	{ a 120 b 50 c 50	D3
R5	680Ω	C3	C3	0.01μF	C3	C22	0.01μF	E3			
R6	4.7kΩ	D3	C4	0.05μF	D3	C23	56pF	C3			
R7	22kΩ	D3	C5	0.01μF	C3	Coils*			T5	{ a 2 b 2 c —	E3
R8	8.2kΩ	C3	C6	—	D3	L1	2	D3			
R9	1kΩ	D3	C7	110pF	D3	L2	2	C3			
R10	5kΩ	B1	C8 ⁺	235pF	C3	L3	—	C3	Miscellaneous		
R11	1kΩ	E3	C9 ⁺	11pF	C3	L4	12	E3	D1	OA70	D3
R12	68kΩ	D3	C10	250pF	C3	L5	—	E3	S1-S5	—	A2
R13	680Ω	D3	C11	8μF	C3	L6	—	C3	S6	—	B2
R14	22kΩ	E3	C12	0.1μF	C3	L7	—	C3	*Approximate D.C. resistance		
R15	270kΩ	E3	C13	56pF	D3	L8	2	C3	in ohms.		
R16	1kΩ	E3	C14	250pF	D3	L9	2	A2	165 pF C3 110 pF		
R17	4.3kΩ	D3	C15	0.05μB	D3						
R18	100Ω	E3	C16	250pF	D3						
R19	4.7Ω	E3									

*Approximate D.C. resistance in ohms.
 $\frac{1}{2}$ Or C8 165pF, C9 110pF.



Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 OC44	0.9	1.0	7.0
TR2 OC45	0.7	0.75	7.0
TR3 OC45	1.0	1.1	7.0
TR4 OC81D	1.2	1.3	9.0
TR5 OC81	—	0.2	9.0
TR6 OC81	—	0.2	9.0

CIRCUIT ALIGNMENT

Equipment Required.—An A.M. signal generator; an R.F. coupling loop for alignment of the M.W. R.F. circuits; a 0.01 μ F capacitor and a special bladed-type trimming tool for the I.F. and oscillator coil core adjustments.

Alignment should be carried out with the chassis in its case.

1.—Switch receiver to M.W. Turn the tuning gang to maximum capacitance and the volume control to the maximum output position. Connect the signal generator via the 0.01 μ F capacitor across C1, C2 (between tuning gang

aerial section connecting tag and chassis).

- 2.—Feed in a 470kc/s modulated signal and adjust the cores of T3 (location reference D3), T2 (D3), and T1 (C3) in that order for max. audio output.
- 3.—Repeat operation 2 with a reduced signal input.
- 4.—Transfer the signal generator to the R.F. coupling loop and loosely couple the loop to the ferrite rod. Tune receiver to 500m, feed in a 600kc/s signal and adjust L8 (C3) and L2/L3 (C3) for maximum output. (Adjust L2/L3 by sliding the former along the ferrite rod.)
- 5.—Tune receiver to 200m, feed in a 1,500 kc/s signal and adjust C6 and C1 (D3) for maximum output.
- 6.—Repeat operations 4 and 5 for optimum results in both positions.
- 7.—Switch receiver to L.W. and set the tuning pointer to 1,500m. Adjust C9 (C3) to tune in the B.B.C. Light programme.
- 8.—Tune receiver to Paris (1,829m) and adjust L4/L5 (E3) for maximum output by sliding the former along the ferrite rod.

Switches.—S1-S5 are the waveband switches which are shown on the circuit diagram with a suffix letter included to indicate their function, where *m* means closed on M.W. and *l* means closed on L.W. They are housed in a two-way rotary unit shown in location reference A1 and illustrated inset. The battery on/off switch S6 is ganged with the volume control.

Battery.—Ever-Ready PP9 9V or any equivalent.

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