

## Resistors

R1	8.2kΩ	D1
R2	390Ω	D1
R3	33kΩ	D2
R4	6.8kΩ	D2
R5	100Ω	D3
R6	390Ω	D3
R7	1kΩ	D2
R8	68kΩ	D2
R9	10kΩ	D3
R10	2.2kΩ	C3
R11	180Ω	D3
R12	47kΩ	D3
R13	270Ω	D3
R14	27kΩ	C3
R15	4.7kΩ	C3
R16	50kΩ	A3
R17	470Ω	C3
R18	39kΩ	B3
R19	18kΩ	B3
R20	1kΩ	B3
R21	15Ω	B3
R22	270Ω	C3
R23	1.5kΩ	C3
R24	1.5kΩ	C2
R25	82Ω	C2
R26	82Ω	C2
R27	2.9Ω	C2
R28	2.9Ω	B2
R29	2.2kΩ	B3

## Capacitors

C1	—	C2
C2	—	C2
C3	—	D2
C4	—	D2
C5	56pF	D1
C6	0.1μF	C1
C7	8,200pF	D2
C8	0.018μF	D3
C9	0.15μF	D3
C10	180pF	D2
C11	100pF	D2
C12	10μF	D3
C13	200pF	D3
C14	200pF	D3
C15	91pF	C3
C16	160μF	C3
C17	0.15μF	D3
C18	3,900pF	C3
C19	3.2μF	C3
C20	3.2μF	C3
C21	160μF	C3
C22	100μF	B3
C23	160μF	C2
C24	15pF	A3
C25	15pF	A3
C26	0.01μF	A3
C27	4,700pF	C3
C28	0.01μF	A3
C29	8pF*	D2

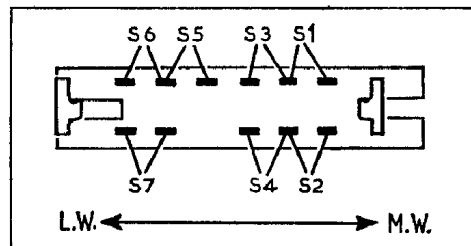
## Coils†

L1	5.0	A1
L1a	1.5	A1
L2	—	C1
L3, L3a	1.5	D1
L4	—	D2
L5	—	D2
L6	—	D2
L7	—	D3
L8	—	D3
L9	—	D3
L10	—	D3
L11	—	D3
L12	—	C3
L13	—	C3
L14	—	C3
L15	220.0	B3
L16	50.0	B3
L17	50.0	B3
L18	12.0	—
L19	—	A3

## Miscellaneous

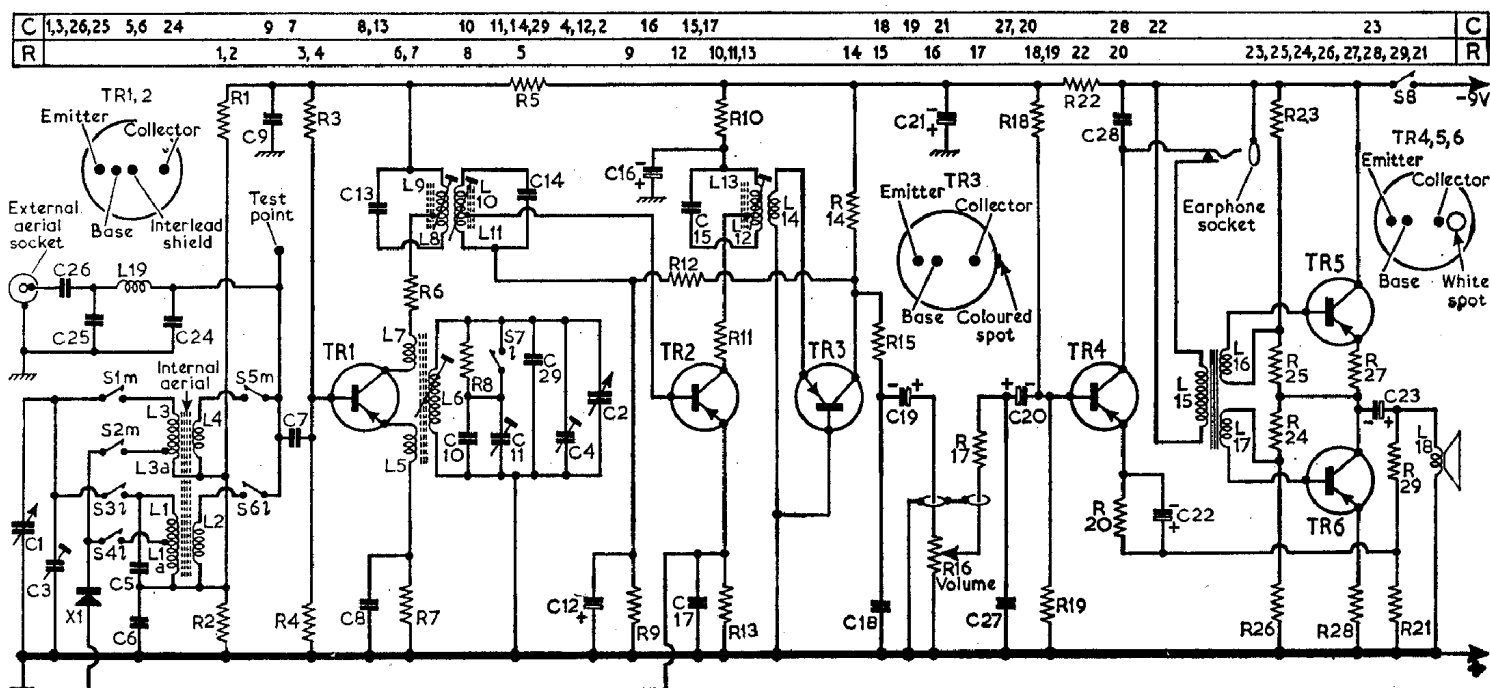
X1	OA70	C2
S1-S7	—	D1
S8	—	A3

\* May be 3pF.  
† Approximate d.c. resistance in ohms.



Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 AF117	1.1	1.25	7.1
TR2 AF117	0.35	0.6	4.4
TR3 OC71	—	—	5.0
TR4 OC81D	2.1	2.25	8.4
TR5 OC81	4.2	4.4	9.0
TR6 OC81	—	0.15	4.2



## COSSOR - CR1310T

### CIRCUIT ALIGNMENT

**Equipment Required.**—An a.m. signal generator with an output impedance of 75Ω; an audio output meter with an impedance of 15Ω; a length of insulated wire formed into a coupling coil; a 0.5μF capacitor and a slot-type trimming tool.

During alignment the input signal should be adjusted so that the output does not exceed 50mW.

- 1.—Switch receiver to m.w. and turn the tuning gang to maximum capacitance. Turn the volume control for maximum output. Connect the audio output meter in place of the loudspeaker and connect the signal generator via the 0.5μF capacitor to test point.
- 2.—Feed in a 470kc/s modulated signal and adjust L12/L13, L10/L11 and L8/L9 in that order for maximum output.

- 3.—With the tuning gang at maximum capacitance, feed in a 537kc/s signal and adjust L6 for maximum output.
- 4.—Turn the tuning gang to minimum. Feed in a 1,610kc/s signal and adjust C4 for maximum output.
- 5.—Repeat operations 3 and 4 as necessary.
- 6.—Disconnect the signal generator and 0.5μF capacitor from the test point and connect the generator to the r.f. coupling coil. Loosely couple the coil to the ferrite rod aerial. Feed in a 623kc/s signal and tune the receiver for the highest output reading. Then adjust L3 for maximum output.
- 7.—Feed in a 1,400kc/s signal and tune the receiver for the highest output reading. Then adjust C3 for maximum output.
- 8.—Re-connect the signal generator via the 0.5μF capacitor to the test point. Switch receiver to l.w. and turn the tuning gang to maximum capacitance. Feed in a 145.5kc/s signal and adjust C11 for maximum output.

- 9.—Connect the signal generator to the coupling coil, feed in a 180kc/s signal and tune the receiver for the highest output reading. Then adjust L1 for maximum output.
- 10.—Re-check operations 6 and 7 (m.w. r.f. circuits).

**Switches.**—S1-S7 are the waveband switches located in a slider unit shown in location reference D1. S8 is the battery on/off switch which is ganged to the volume control spindle.

**Battery.**—9v Ever Ready PP7 or equivalent.