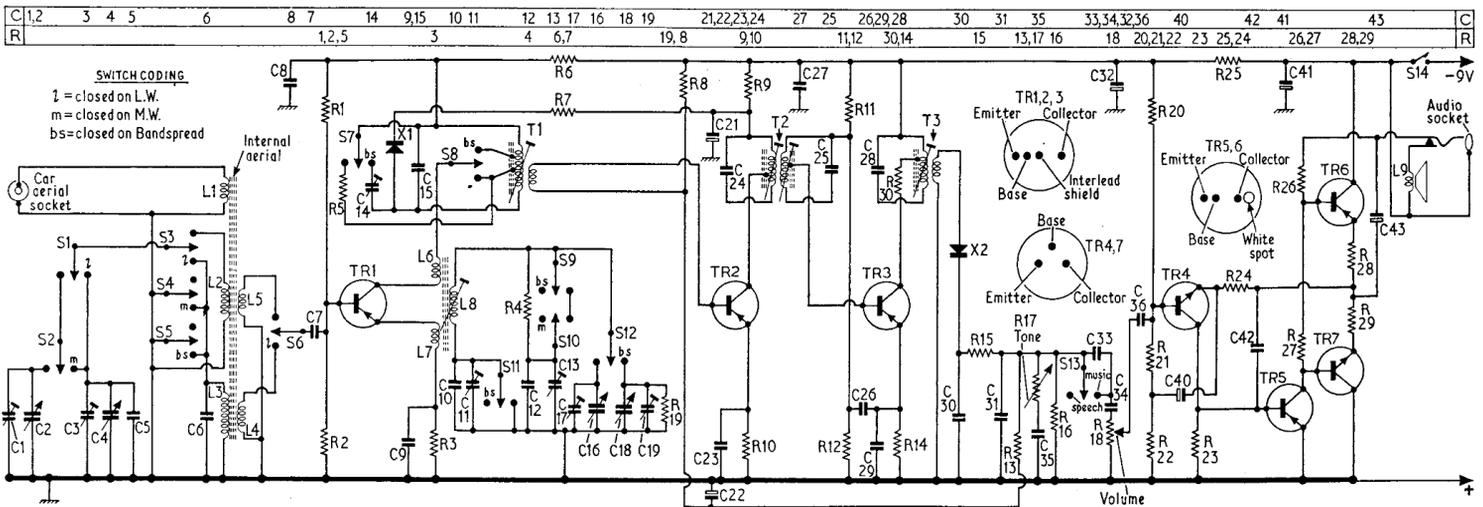


Resistors			Capacitors			Coils			Miscellaneous		
R1	47kΩ	C2	C1	—	B1	L1	—	A1	S1-S12	—	A2
R2	6.8kΩ	C2	C2	—	B1	L2	—	B1	S13	—	C1
R3	1kΩ	C2	C3	—	C1	L3	—	A1	S14	—	A1
R4	270kΩ	C2	C4	—	C1	L4	—	A1	X1	OA79	C2
R5	10kΩ	C2	C5	4.7pF	C1	L5	—	B1	X2	OA90	B2
R6	100Ω	B2	C6	50pF	A1	L6	—	C2			
R7	2.7kΩ	C2	C7	0.01μF	C2						
R8	150kΩ	C2									
R9	1kΩ	B2									
R10	680Ω	C2									
R11	22kΩ	B2									
R12	4.7kΩ	B2									
R13	39kΩ	C2									
R14	1kΩ	B2									
R15	470Ω	B2									
R16	10kΩ	B2									
R17	50kΩ	A1									
R18	50kΩ	A1									
R19	470kΩ	B2									
R20	22kΩ	B2									
R21	33kΩ	B2									
R22	4.7Ω	B2									
R23	390Ω	A2									
R24	560Ω	A2									
R25	560Ω	A2									
R26	1kΩ	A2									
R27	82Ω	A2									
R28	2.2Ω	A2									
R29	2.2Ω	A2									
R30	220Ω	B2									
C8	0.1μF	C2									
C9	0.022μF	C2									
C10	180pF	C2									
C11	140pF	C2									
C12	120pF	C2									
C13	80pF	C2									
C14	25pF	C2									
C15	370pF	C2									
C16	—	C2									
C17	—	C2									
C18	—	C2									
C19	—	C2									
C21	4μF	B2									
C22	2.5μF	C2									
C23	0.1μF	C2									
C24	270pF	B2									
C25	270pF	B2									
C26	0.02μF	B2									
C27	0.1μF	B2									
C28	270pF	B2									
C29	0.5μF	B2									
C30	0.01μF	B2									
C31	0.01μF	B2									
C32	160μF	A2									
C33	6,800pF	B2									
C34	0.47μF	B2									
C35	0.22μF	B2									
C36	0.47μF	B2									
C40	200μF	B2									
C41	160μF	B2									
C42	2,000pF	A2									
C43	200μF	A2									
L7	—	C2									
L8	—	C2									
L9	15Ω	†									
T1	—	C2									
T2	—	B2									
T3	—	B2									



Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 AF117	0.7	0.9	7.0
TR2 AF117	0.9	1.0	5.6
TR3 AF117	1.0	1.1	7.0
TR4 AC127	4.4	4.0	0.15
TR5 OC81	—	0.15	4.4
TR6 OC81	4.5	4.7	9.0
TR7 AC127	4.5	4.4	—

CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator with 30 per cent modulation; an audio output meter with an impedance to match 15Ω; an r.f. coupling loop and suitable non-ferrous trimming tools. During alignment the signal level should be adjusted to maintain an output of 50mW with the volume control at maximum.

- 1.—Connect the output meter in place of the loudspeaker. Turn the tuning gang to maximum, and with the tone control turned to maximum treble, the speech/music switch depressed and the receiver switched to m.w., feed in a 470kc/s signal via the car aerial socket.
- 2.—Adjust the core of T3 for maximum output (tune to peak nearest the top of former).
- 3.—Adjust the bottom core of T2 for maximum output (tune to outer peak).
- 4.—Adjust the top core of T2 for maximum output (tune to outer peak).
- 5.—Adjust the core of T1 for maximum output.

- 6.—Repeat as necessary, in the same order, until no further improvement can be obtained.
- 7.—Depress "Bandspread" button and adjust C14 for maximum output, keeping the signal input level as low as possible.
- 8.—With receiver still switched to m.w., set all four trimming capacitors located on the rear of the tuning gang assembly to their mid-position. With the tuning gang at maximum, adjust the cursor to line up with the calibration mark at the low frequency end of the scale.
- 9.—Tune receiver to 500m and feed in a 600kc/s signal via the r.f. coupling loop. Adjust L8 to tune in this signal. Adjust L2 for maximum output, by sliding the former along the ferrite rod.
- 10.—Tune receiver to 200m and feed in a 1.5Mc/s signal via the r.f. loop. Adjust C17 to tune in this signal. Adjust C3 for maximum output.
- 11.—Repeat operations 9 and 10 until the calibration is correct and maximum output is obtained.
- 12.—Switch receiver to l.w. and tune to 1,800m. Feed in a 166.6kc/s signal and adjust C13 to tune in this signal. Adjust L3 for maximum output by sliding the former along the ferrite rod.

- 13.—Switch to "Bandspread" and tune to 185m. Feed in a 1,620kc/s signal and adjust C19 to tune in this signal. Adjust C1 for maximum output. Tune receiver to 210m and feed in a 1,437kc/s signal. Adjust C11 to tune in this signal. Retune receiver to 185m and readjust C11. Repeat procedure until calibration is correct at 185 and 210m. Seal C11 with wax.

Note: Due to the tolerance in the capacitance of the tuning gang, C11 may have to be fully unscrewed. It is necessary therefore, to follow the alignment procedure carefully in order to obtain best results.

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