

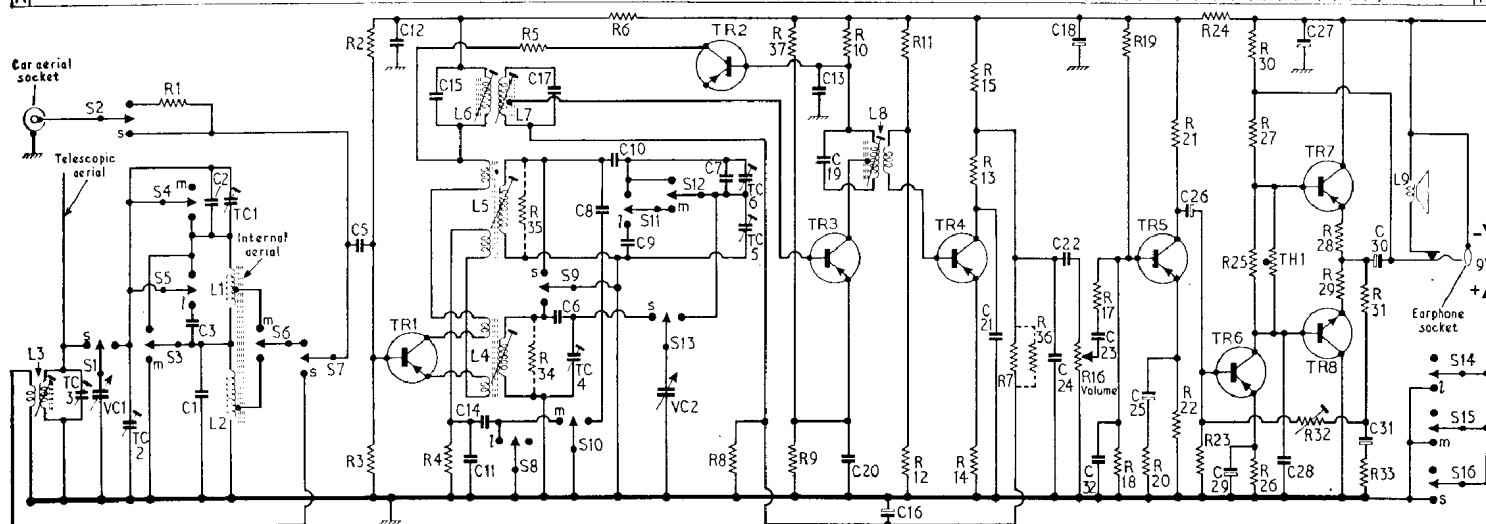
Resistors								
R1	470Ω	C2	R32	10kΩ	A2	C26	50μF	A2
R2	39kΩ	C2	R33	150Ω	A2	C27	160μF	A2
R3	6.8kΩ	C2	R34	22kΩ	B1	C28	0.01μF	A2
R4	1kΩ	B2	R35	220kΩ	B1	C29	80μF	A2
R5	680Ω	B2	R36	15kΩ	—	C30	200μF	A2
R6	100Ω	A2	R37	4.7kΩ	B2	C31	25μF	A2
R7	15kΩ	B2				C32	0.022μF	A2
R8	12kΩ	B2	Capacitors			TC1	25pF	C2
R9	330Ω	B2	C1	50pF	C1	TC2	25pF	C1
R10	560Ω	B2	C2	25pF	C2	TC3	25pF	C1
R11	47kΩ	B2	C3	65pF	C2	TC4	25pF	C1
R12	100Ω	B2	C5	0.047μF	C2	TC5	25pF	C1
R13	100Ω	A2	C6	2,500pF	C2	TC6	25pF	C2
R14	270Ω	A2	C7	25pF	C2	VC1	250pF	C2
R15	18kΩ	A2	C8	270pF	C2	VC2	250pF	C2
R16	20kΩ	A1	C9	60pF	C2			
R17	4.7kΩ	A2	C10	280pF	C1			
R18	4.7kΩ	A2	C11	2,200pF	B2	Coils		
R19	22kΩ	A2	C12	0.047μF	B2	L1	—	A1
R20	56Ω	A2	C13	0.047μF	B2	L2	—	C1
R21	1.2kΩ	A2	C14	0.022μF	B2	L3	—	C1
R22	470Ω	A2	C15	560pF	B2	L4	—	B1
R23	1.2kΩ	A2	C16	16μF	B2	L5	—	B1
R24	150Ω	A2	C17	560pF	B2	L6	—	B2
R25	150Ω	A2	C18	160μF	B2	L7	—	B2
R26	150Ω	A2	C19	250pF	B2	L8	—	B2
R27	1.2kΩ	A2	C20	0.5μF	B2	L9	—	A1
R28	2.2kΩ	A2	C21	4,700pF	A2			
R29	2.2kΩ	A2	C22	0.22μF	A2	Miscellaneous		
R30	390Ω	A2	C23	0.22μF	A2	S1-S16	—	C1
R31	3.3kΩ	A2	C24	0.01μF	A2	TH1	KS56W	A2
			C25	80μF	A2			

R.G.D. - RR210

Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 AF115	0.9	1.0	7.6
TR2 Y159	—	—	—
TR3 AF117	1.6	1.8	5.6
TR4 OC70	—	—	4.0
TR5 OC75	1.1	1.2	5.0
TR6 OC81D	0.5	0.6	4.6
TR7 OC81	4.8	4.9	9.0
TR8 AC127	4.8	4.6	—

C	TC3, VC1, TC2	3, 12	TC1	5	12	15	11	14	17, 6, TC4, 8, 10, 9	VC2	7, TC6, TC5	13, 19, 20	16	21	24, 22, 18, 23, 32	25	26	29	28	27	31, 30	C
R	1			2, 3	4			35, 34	6		8	37, 9	10	11, 12	15, 13, 14	7	36	16, 17	18, 19, 20, 21, 22, 23, 24, 30, 27, 25, 26, TH1, 32, 28, 29, 31, 33		R	



CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator; an audio output meter with an impedance of 25Ω; a shielded r.f. coupling coil (formed by winding 85 turns of enamelled copper wire on a 2in diameter former) and two isolating capacitors of 0.1μF and 12pF.

Calibration points marked on the scale backing plate read from right to left: "datum," 6Mc/s, 600kc/s, 1,430kc/s and 15Mc/s.

During alignment, the signal input should be progressively reduced to maintain a receiver output of 50mW.

- 1.—Connect the signal generator via a 0.1μF capacitor to the TR1 base winding of L3 and switch receiver to s.w. Connect the audio output meter in place of the loud-speaker. Set the tuning gang to maximum capacitance and the volume control to maximum output.
- 2.—Feed in a 470kc/s modulated signal and adjust the cores of L8, L7 and L6 in that order for maximum output. Repeat as necessary.
- 3.—Connect the signal generator across the r.f. coupling coil and loosely couple the coil to the receiver by placing it co-axially with the ferrite rod at a distance of about 5in. Check that with the tuning gang at maximum capacitance the cursor lines up with the "datum" mark at the extreme right-hand end of the tuning scale.

- 4.—Switch receiver to m.w. and set the cursor at the 600kc/s mark. Feed in a 600kc/s signal and adjust L5 and L1 for maximum output.

- 5.—Set the cursor at the 1,430kc/s calibration mark. Feed in a 1,430kc/s signal and adjust TC5 and TC2 for maximum output.

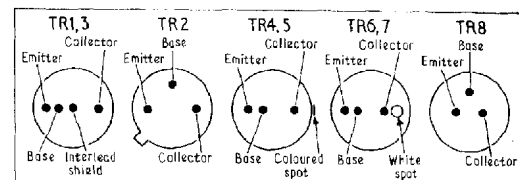
- 6.—Check operations 4 and 5.

- 7.—Switch receiver to bandsread (by depressing the m.w. and l.w. buttons together) and set the tuning gang to minimum capacitance. Feed in a 1,530kc/s signal and adjust TC6 and TC1 for maximum output.

- 8.—Switch receiver to l.w., feed in a 225kc/s signal and tune receiver to this signal. Adjust L2 for maximum output.

- 9.—Switch receiver to s.w. and set the cursor to the 6Mc/s calibration mark. Disconnect the lead from the telescopic aerial and connect the signal generator via a 12pF capacitor to the free end of the lead.
- 10.—Feed in 6Mc/s signal and adjust L4 and L3 (at lower tuning position of core) for maximum output.

- 11.—Set the cursor to the 15Mc/s mark, feed in a 15Mc/s signal and adjust TC4 and TC3 for maximum output.



Above: Transistor terminal connections
Left: Enlarged view of the waveband switch assembly as seen from the rear of an inverted chassis

