

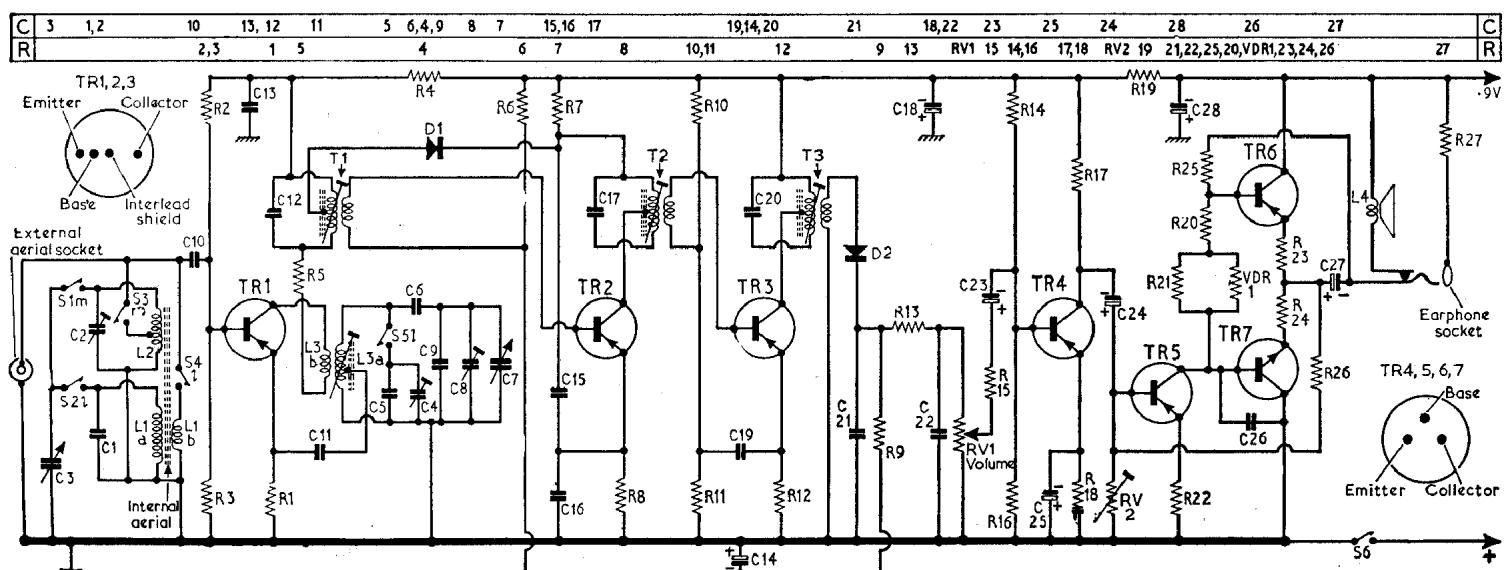
PAM - 5215

Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 AF117	1.1	1.2	7.8
TR2 AF117	0.87	0.97	6.5
TR3 AF117	0.95	1.1	8.4
TR4 NKT255*	1.4	1.5	4.2
TR5 NKT258*	0.25	0.43	4.75
TR6 NKT251*	4.85	4.95	9.0
TR7 NKT753	4.85	4.75	—

*In some receivers TR4 may be NKT257J, TR5 may be NKT278 and TR6 may be NKT271.

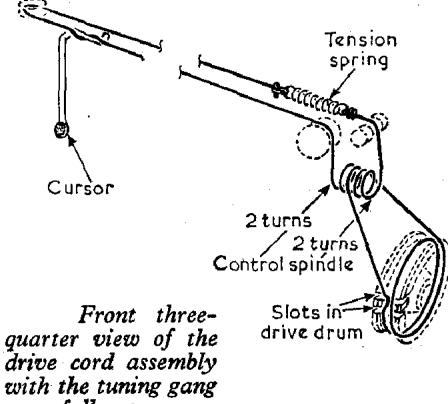
Resistors				Capacitors				Coils				Transformers				Miscellaneous			
R1	1.2kΩ	B3		R27	22Ω	C1		C22	0.022μF	C3									
R2	12kΩ	B2		RV1	5kΩ	A1		C23	1μF	C2									
R3	2.2kΩ	B2		RV2	5kΩ	C1		C24	1μF	C2									
R4	100Ω	C2		VDR1	—	B2		C25	100μF	C1									
R5	330Ω	B2						C26	2,000pF	E4									
R6	56kΩ	C2						C27	100μF	C2									
R7	2.2kΩ	B3						C28	100μF	B1									
R8	1kΩ	C2																	
R9	8.2kΩ	E4																	
R10	22kΩ	C3																	
R11	3.9kΩ	B3																	
R12	1kΩ	C3																	
R13	1kΩ	C3																	
R14	33kΩ	C2																	
R15	1.2kΩ	D3																	
R16	8.2kΩ	D3																	
R17	3.3kΩ	C2																	
R18	1.2kΩ	C1																	
R19	150Ω	C2																	
R20	47Ω	C2																	
R21	100Ω	C2																	
R22	47Ω	C1																	
R23	2Ω	C2																	
R24	2Ω	C1																	
R25	1.2kΩ	C2																	
R26	33kΩ	C1																	



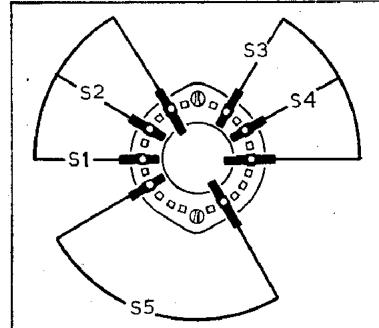
CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator; an audio output meter with an impedance of 25Ω; an r.f. coupling loop and a narrow-bladed type trimming tool.

- 1.—Disconnect the lead from L2 tap and connect the signal generator between the lead and chassis. Connect the audio output meter in place of the loudspeaker. Turn the volume control to maximum output.
- 2.—Switch receiver to m.w. and tune to the l.f. end of the band. Feed in a 470 kc/s modulated signal and adjust the cores of T1, T2 and T3 for maximum output.
- 3.—Connect the signal generator to the r.f. coupling loop and place the loop so that it is loosely coupled to the ferrite rod aerial at the L2 (m.w. winding) end. Reconnect the lead to L2 tap.
- 4.—Tune receiver to 500m, feed in a 600 kc/s signal and adjust the core of L3 and the position of L2 for maximum output.
- 5.—Tune receiver to 200m, feed in a 1,500 kc/s signal and adjust C8 and C2 for maximum output.
- 6.—Repeat operations 4 and 5 for correct tracking and calibration.
- 7.—Switch receiver to l.w. and tune to 1,400 m. Feed in a 214kc/s signal and adjust C4 and the position of L1 for maximum output.



Front three-quarter view of the drive cord assembly with the tuning gang fully open



Switches.—S1-S5 are the waveband switches which are mounted in a rotary unit shown in location reference A3. On the circuit diagram these switches are coded with the letter m (m.w.) or l (l.w.) indicating the position in which they close. The on/off switch S6 is ganged with the volume control.

Battery.—9V Ever Ready PP7 or equivalent.

Output Balance Adjustment.—In the event of TR5, TR6 or TR7 being replaced, it will be necessary to re-adjust RV2. Turn the volume control to minimum and adjust RV2 to provide an emitter voltage of 4.85V measured at the junction of R23 and R24.