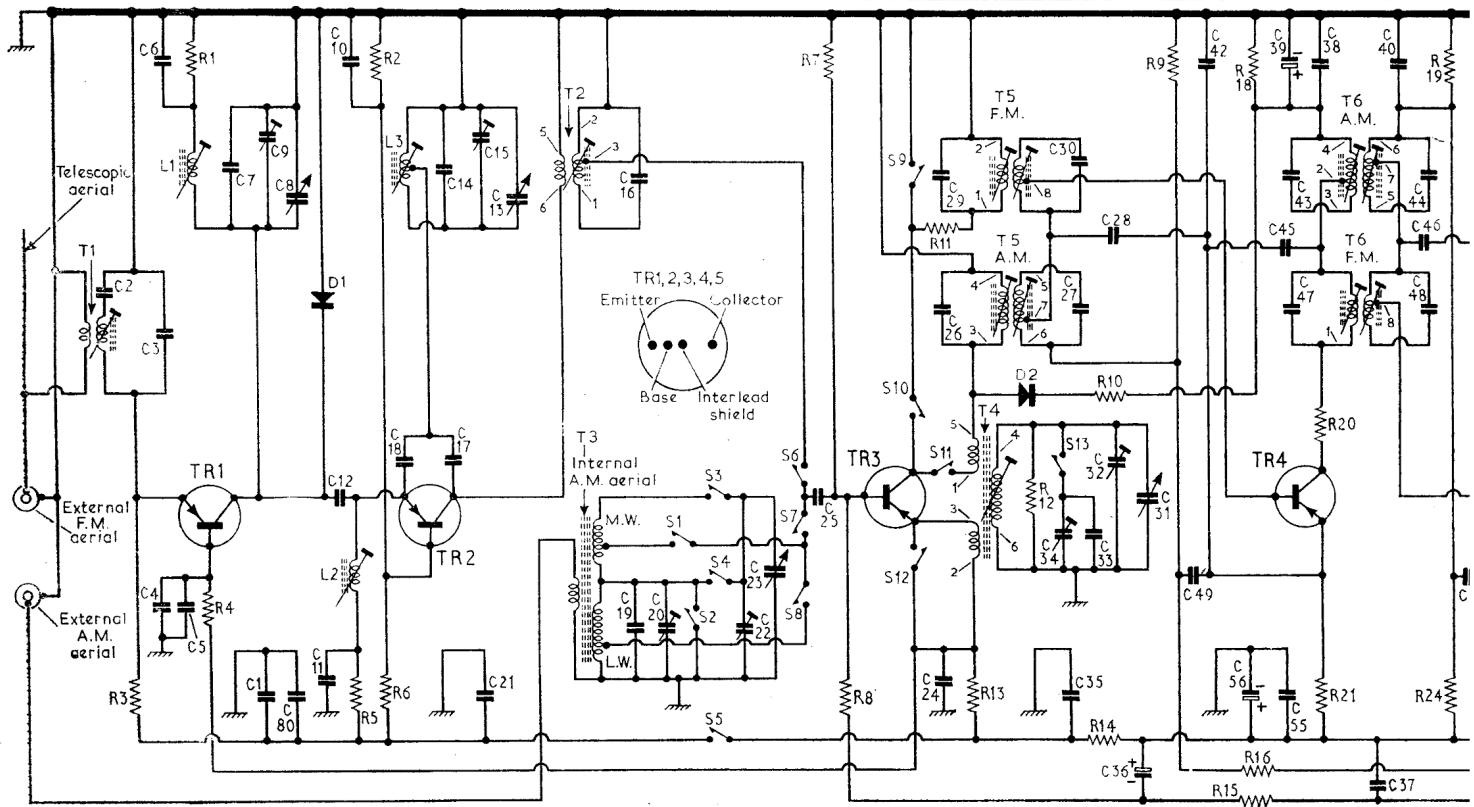
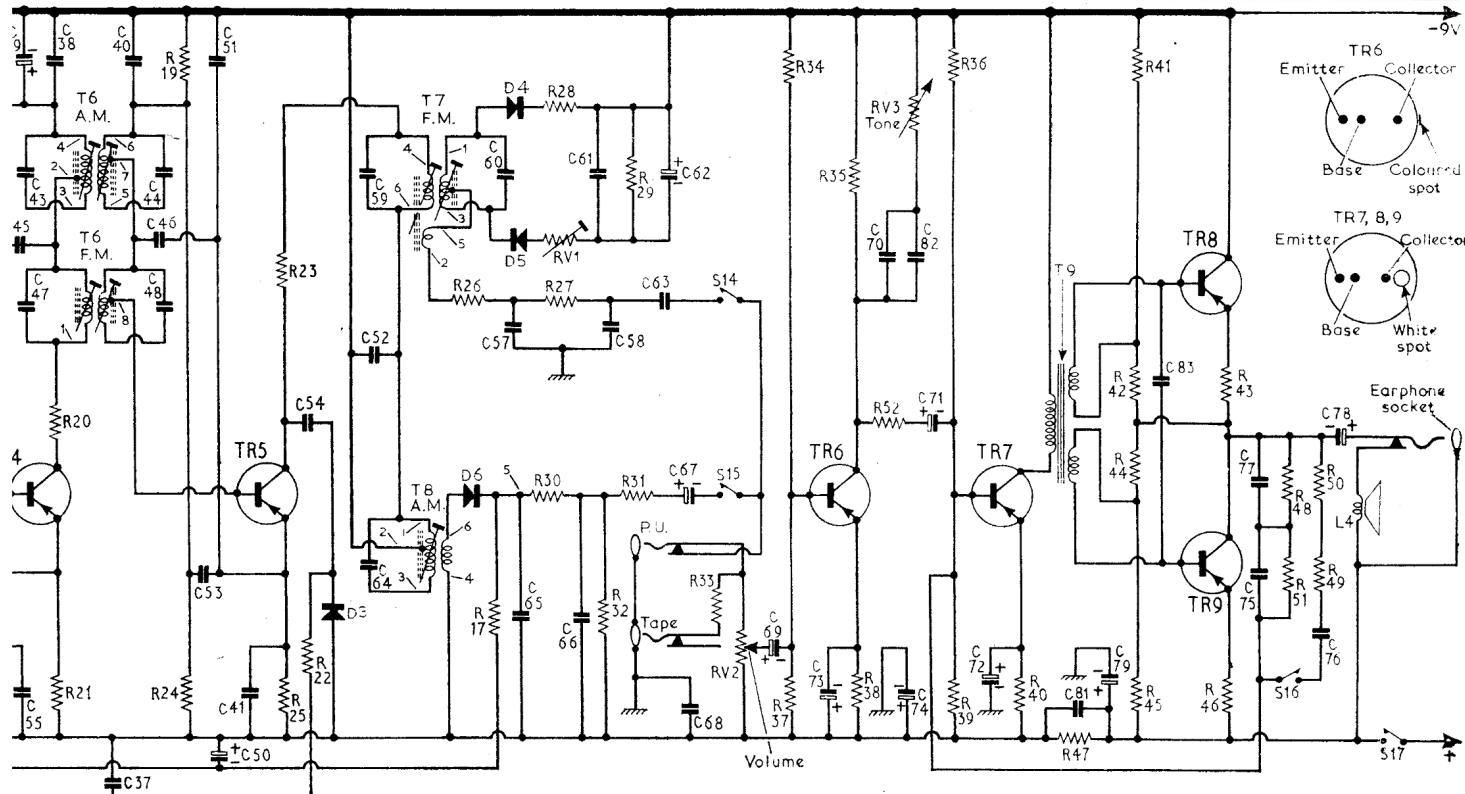


C	2	4,6,3,5	7	1,9,80,8,11,12,10	18	14,17,15,21,13	19,16,20	22	23	25	29,26,24	34,35,30,27,33,28,32,36,31,49,42,56,55,45,39,43,47,38,37,40,44,46	C		
R	3	1,4		5 2,6				7,8		11 13	12	14,10	9	18,16,15 20,21	19,2



5,45,39,43,47,38,37,40,44,46,48,53,50,51,41,54	59,52,64	60,57,65	66,61,58	63,62,67,68	69	73	70,74,82,71	72	81	79	83	77,75	76	78	C	
.15 20,21	19,24	23,25,22	26 17	30,28, RV1, 27, 32, 29, 31	33 RV2	34,37	35,38,52, RV3, 36,39	40	47	41,42,44,45	43,46	48,51,50,49	R			



CIRCUIT ALIGNMENT

For correct alignment the receiver should be removed from its case (see "Dismantling").

F.M. Circuits

Equipment Required.—An f.m. signal generator capable of being switched to a.m.; a 0-1V a.c. voltmeter for use as an output meter; a 0.01 μ F capacitor and bladed type trimming tool.

1.—Connect the a.c. voltmeter across the loudspeaker. Connect the signal generator output between chassis and via the 0.01 μ F capacitor, VT2 base. Switch receiver to f.m. and turn the tuning gang to maximum capacitance. Turn volume control to maximum.

2.—Feed in a 10.7Mc/s 22kc/s deviated signal and adjust the top and bottom cores of T7, T6 (f.m.), T5 (f.m.) and T2 for maximum output. Adjust L2 for minimum output.

3.—Switch the signal generator to a.m. and adjust RV1 for minimum output, i.e., maximum a.m. rejection. Repeat.

4.—Transfer the signal generator to the f.m. external aerial socket. Tune receiver to 88Mc/s. Feed in an 88Mc/s signal deviation 22kc/s, and adjust L3 and L1 for maximum output.

Resistors				R43	2·2Ω	E2	C27	—	B3	C70	0·5μF	E2
R1	120Ω	A2		R44	2·2kΩ	E2	C28	3,000pF	C2	C71	10μF	E2
R2	6·8kΩ	A2		R45	100Ω	E2	C29	—	B3	C72	2,000μF	D2
R3	560Ω	A2		R46	2·2Ω	E3	C30	—	B3	C73	100μF	D2
R4	1kΩ	A2		R47	100Ω	E2	C31	—	A2	C74	500μF	E2
R5	650Ω	B3		R48	120kΩ	D2	C32	—	A2	C75	0·02μF	D2
R6	1·5kΩ	A3		R49	18kΩ	D2	C33	200pF	B1	C76	0·01μF	D2
R7	27kΩ	B2		R50	5·6kΩ	D2	C34	30pF	B1	C77	150pF	D2
R8	3·9kΩ	C2		R51	82kΩ	D2	C35	0·1μF	C2	C78	500μF	D3
R9	56kΩ	B2		R52	470Ω	E2	C36	8μF	C2	C79	100μF	D1
R10	680Ω	B2		RV1	5kΩ	D2	C37	0·01μF	C1	C80	0·01μF	A3
R11	220Ω	C2		RV2	5kΩ	D1	C38	1,000pF	B3	C81	2,000pF	E2
R12	120kΩ	B1		RV3	5kΩ	E1	C39	2μF	B2	C82	0·5μF	E2
R13	1kΩ	B2					C40	0·1μF	C3	C83	3,000pF	E3
R14	47kΩ	C2					C41	0·5μF	C2			
R15	1kΩ	C2					C42	0·1μF	C3			
R16	3·9kΩ	C2					C43	—	C3			
R17	3·9kΩ	C2		C1	0·01μF	A2	C44	—	C3	L1	—	A2
R18	15kΩ	B2		C2	15pF	A1	C45	2,000pF	C3	L2	—	B3
R19	18kΩ	C3		C3	35pF	A1	C46	3,000pF	C2	L3	—	A3
R20	220Ω	C2		C4	1,000pF	A2	C47	—	C3	L4	15Ω	C4
R21	470Ω	C2		C5	0·01μF	A2	C48	—	C3			
R22	4·7kΩ	C2		C6	2,000pF	A2	C49	0·1μF	C2			
R23	100Ω	C3		C7	27pF	A2	C50	8μF	C2			
R24	5·7kΩ	C2		C8	—	A2	C51	0·1μF	C2			
R25	470Ω	C2		C9	8pF	A2	C52	1,000pF	D3	T1	—	A1
R26	82Ω	D2		C10	2,000pF	A3	C53	0·5μF	C2	T2	—	B2
R27	1kΩ	D2		C11	390pF	B2	C54	4pF	C3	T3	—	C1
R28	1kΩ	D2		C12	5pF	A3	C55	0·1μF	C2	T4	—	B2
R29	22kΩ	D1		C13	—	A2	C56	200pF	C2	T5	—	B2
R30	390Ω	C2		C14	22pF	B2	C57	1,000pF	D2	T6	—	C2
R31	22kΩ	C2		C15	8pF	B3	C58	0·02μF	D2	T7	—	D2
R32	4·7kΩ	C2		C16	68pF	B2	C59	—	D3	T8	—	D2
R33	470kΩ	E1		C17	68pF	A2	C60	—	D3	T9	—	E2
R34	180kΩ	E2		C18	8·2pF	A3	C61	300pF	D2			
R35	3·3kΩ	E2		C19	39pF	D1	C62	2μF	D1			
R36	82kΩ	E2		C20	30pF	D1	C63	0·5μF	C2	D1	OA90	A2
R37	10kΩ	D2		C21	0·1μF	B3	C64	—	D3	D2	OA79	B2
R38	1kΩ	D2		C22	—	A2	C65	—	D3	D3	OA91	C2
R39	18kΩ	E2		C23	—	A2	C66	0·02μF	C2	D4	OA79	D2
R40	470Ω	D2		C24	0·03μF	B1	C67	2μF	C1	D5	OA79	D2
R41	2·2kΩ	E2		C25	0·01μF	B2	C68	0·1μF	C1	D6	OA91	D3
R42	100Ω	E2		C26	—	B3	C69	10μF	D2	S1-S17	—	C1

Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 AF114	+	6·0	5·6
TR2 AF115	+	6·0	5·8
TR3 AF116	+	5·8	5·4
TR4 AF116	+	5·6	5·1
TR5 AF116	+	6·9	6·3
TR6 OC71	+	6·5	6·0
TR7 OC81D	+	6·3	7·4
TR8 OC81	..	7·4	7·0
TR9 OC81	..	7·0	6·6
		6·6	0·7
		6·3	6·2
		6·3	5·9
		4·6	4·4
		8·8	8·5
			4·5

[†]Receiver switched to f.m.
[‡]Receiver switched to a.m.

- Tune receiver to 100Mc/s. Feed in a 100Mc/s signal and adjust C15 and C9 for maximum output.
- Feed in a 95Mc/s signal. Tune receiver to this signal and adjust T1 for maximum output.

A.M. Circuits

Equipment Required.—An a.m. signal generator; a 0·1V a.c. voltmeter as used for f.m. alignment; a 1kΩ resistor and a bladed type trimming tool.

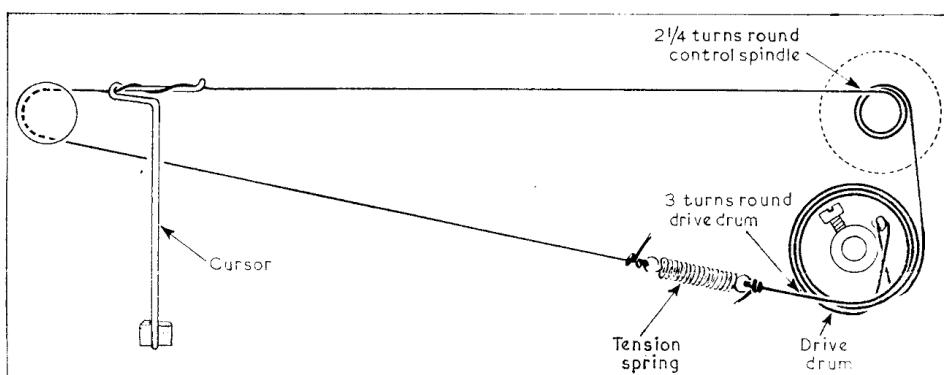
- Connect the a.c. voltmeter across the loudspeaker. Disconnect from the ferrite rod end, the lead connecting the m.w. aerial winding tap to S1 on the printed panel. Connect the signal generator output between the free end of the lead and chassis.

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- Switch receiver to m.w. and fully close the tuning gang. Rotate the volume control to maximum output.
- Feed in a 472kc/s modulated signal and adjust the top and bottom cores of T5 (a.m.) and T6 (a.m.) and the primary of T8 for maximum output. Repeat.
- Remove the signal generator and re-connect the lead to the m.w. aerial winding. Connect the signal generator via the 1kΩ resistor to the a.m. external aerial socket.
- Tune receiver to 550m. Feed in a 545kc/s signal and adjust T4 and the m.w. winding of T3 for maximum output.
- Tune receiver to 200m. Feed in a 1,500kc/s signal and adjust C32 and C22 for maximum output.
- Repeat operations 5 and 6.
- Switch receiver to l.w. and tune to 1,200m. Feed in a 250kc/s signal and adjust C34 and C20 for maximum output.
- Tune receiver to 1,900m. Feed in a 158kc/s signal and adjust the l.w. winding of T3 for maximum output.
- Repeat operations 8 and 9.

Switch Table

Switch	M.W.	L.W.	V.H.F
S1	C
S2	C
S3	C
S4	—
S5	—
S6	—
S7	C
S8	C
S9	C
S10	—
S11	C
S12	—
S13	C
S14	—
S15	C



Drive cord assembly illustrated with the tuning gang at maximum