Resistors

R1	47kΩ	A1
R2	10kΩ	A1
R3	—	†
R4	3·3kΩ	A2
R5	390Ω	A1
R6	75kΩ	A1
R7	1kΩ	A2
R8	12kΩ	B2
R9	1·8kΩ	A2
R10	390Ω	B2
R11	6·8Ω	B3
R12	470Ω	B2
R13	47kΩ	B2
R14	18kΩ	B2
R15	5·1kΩ	C2
R16	1kΩ	B2
R17	1kΩ	B3
R18	8·2kΩ	B1
R19	180Ω	C2
R20	8·2kΩ	C1
R21	180Ω	B1
R22	4·7Ω	C1
R23	4·7Ω	C1
RV1	5kΩ	B2

Capacitors

C1	30pF	A2
C2	20pF	A2
C3a	—	A2
C3b	—	A2
C4	—	A1
C5	0·05μF	A2
C6	30pF	A3
C7	—	A1
C8	—	A1
C9	0·01μF	A2
C10	30pF	A3
C11	20pF	A2
C12	200pF	A2
C13	10μF	A2
C14	—	A1
C15	—	A1
C16	10μF	A2
C17	—	B1
C18	10μF	A2
C19	0·1μF	B2
C20	10μF	B3
C21	0·1μF	B2
C22	0·1μF	B2
C23	100μF	B2
C24	0·1μF	B3
C25	0·003μF	C1
C26	100μF	C2
C27	100μF	C2

Coils*

L1	—	A3
L2	5·5	C3
L3	—	B3
L4	70·0§	—

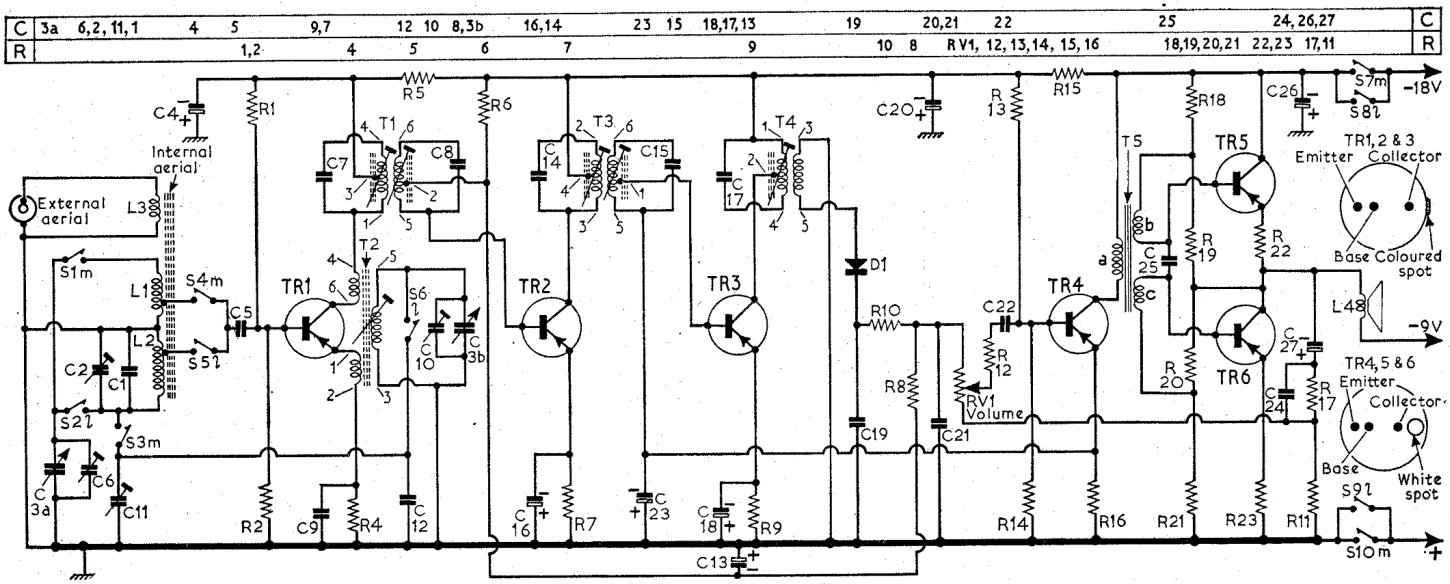
Transformers*

T1	—	A1
T2	—	A2
T3	—	A1
T4	—	B1
T5 a	175·0	B1
T5 b	36·0	B1
T5 c	36·0	B1

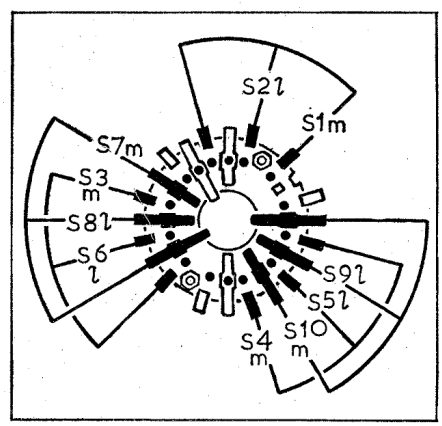
Miscellaneous

D1	OA70	B2
S1-S10	—	A3

*Approximate D.C. resistance in ohms.
†No Component
§125Ω in TP50A.



SWITCH UNIT



Transistor Table

Transistor		Emitter (V)	Base (V)	Collector (V)
TR1	OC44	1·2	1·1	6·9
TR2	OC45	0·7	0·9	6·8
TR3	OC45	1·45	1·65	6·8
TR4	OC81D	1·7	1·2	17·2
TR5	OC81	8·6	8·8	17·5
TR6	OC81	—	7·2	8·6

CIRCUIT ALIGNMENT

Equipment Required.—An A.M. signal generator; an A.C. voltmeter for use as an output meter; two resistors (1kΩ and 2kΩ) and a bladed type trimming tool.

1.—Switch to M.W. and set the tuning gang to the fully meshed position. Connect the signal generator across M.W. aerial coil **L1**: connect the A.C. voltmeter across the speaker speech coil **L4**.

2.—Feed in a 472kc/s modulated signal and maintaining the input only sufficiently high to give a reasonable deflection in the output meter, adjust the top and bottom cores of **T1** and **T3** and the core of **T4** for maximum output.

3.—Repeat operation 2.

4.—Connect the signal generator via the 2kΩ resistor to the external aerial socket. Tune receiver to 460m. Feed in a 652kc/s signal and adjust **T2** and **L1** for maximum output. Adjust **L1** by sliding its former along the ferrite rod.

5.—Tune receiver to 230m. Feed in a 1,300kc/s signal and adjust **C10** and **C6** (osc. and aerial) for maximum output.

6.—Repeat operations 4 and 5.

7.—Switch to L.W. and tune receiver to 1,750m. Connect the signal generator via the 1kΩ resistor to the external aerial socket. Feed in a 170kc/s signal and adjust **C11** and **L2** for maximum output. Note: When adjusting **C11** there may be a degree of oscillator pulling. Care should be taken to adjust **C11** and **L2** for maximum signal at the correct tracking point.

8.—Tune receiver to 1,250m. Feed in a 240kc/s signal and adjust **C2** for maximum output.

9.—Repeat operations 7 and 8.

Switches.—**S1-S6** are waveband switches; **S7-S10** are battery on/off switches. They are all combined in a three-position rotary unit mounted on the printed panel in location reference A3. A separate diagram of the unit in col. 2 gives the individual switch positions.

Batteries.—Batteries recommended by the makers are two Vidormax T6004 (TP50) and two Vidormax T6006 or Ever-Ready PP6 (TP50A).

DECCA - DEBONETTE
TP50, TP50A