DECCA - TPW70

Appearance of the TPW70

Transistor Table

Transistor		Emitter (V)	Collector (V)
TR1	OC44	1·4	8·0
TR2	OC45	0·8	8·2
TR3	OC45	1·2	8·6
TR4	OC81D	1·5	11·5
TR5	OC81	6·1	12·3
TR6	OC81	—	6·1

Total current consumption; 12mA with no signal.

CIRCUIT ALIGNMENT

Equipment Required.—An A.M. signal generator; an A.C. voltmeter; a 1kΩ resistor and a bladed type insulated 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 1kΩ 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 **C11** and **C2** for maximum output.
6.—Repeat operations 4 and 5.
7.—Switch to L.W. and tune receiver to 1,750m. Feed in a 170kc/s signal and adjust **C12** and **L2** for maximum output. Note: When adjusting **C12** there may be a degree of oscillator pulling. Care should be taken to adjust **C12** and **L2** for maximum signal at the correct tracking point.
8.—Tune receiver to 1,250m. Feed in a 240kc/s signal and adjust **C4** for maximum output.
9.—Repeat operations 7 and 8.

Resistors

R1	47kΩ	A1
R2	10kΩ	A2
R3	390Ω	B1
R4	3·3kΩ	A2
R5	75kΩ	B2
R6	2·7kΩ	B1
R7	1kΩ	B1
R8	12kΩ	B1
R9	—	†
R10	1·8kΩ	B1
R11	390Ω	B1
R12	6·8Ω	B2
R13	470Ω	C2
R14	1·8kΩ	B2
R15	56kΩ	C2
R16	18kΩ	C2
R17	470Ω	C1
R18	330Ω	B2
R19	2·2kΩ	C3
R20	68Ω	C3
R21	2·2kΩ	C3
R22	68Ω	C3
R23	2·2Ω	C3
R24	2·2Ω	C3
RV1	5kΩ	B1

Capacitors

C1a	—	B2
C1b	—	B2
C2	40pF	B3
C3	30pF	B3
C4	40pF	B3
C5	10μF	B1
C6	—	†
C7	—	B1
C8	0·05μF	A2
C9	0·01μF	A1
C10	—	B1
C11	40pF	B3
C12	40pF	B3
C13	220pF	B3
C14	10μF	B2
C15	8pF	B1
C15a	4pF	B1
C16	—	B1
C17	—	B1
C18	10μF	B1
C19	—	†
C20	—	B1
C21	—	†
C22	10μF	B1
C23	0·01μF	C1
C24	0·01μF	B1
C25	100μF	B2
C26	0·25μF	B2
C27	100μF	C1
C28	—	†
C29	100μF	B2
C30	0·01μF	C3
C31	100μF	C3
C32	8pF	B2

Coils*

L1	—	A3
L2	7·0	C3
L3	—	B3
L4	22·0	—

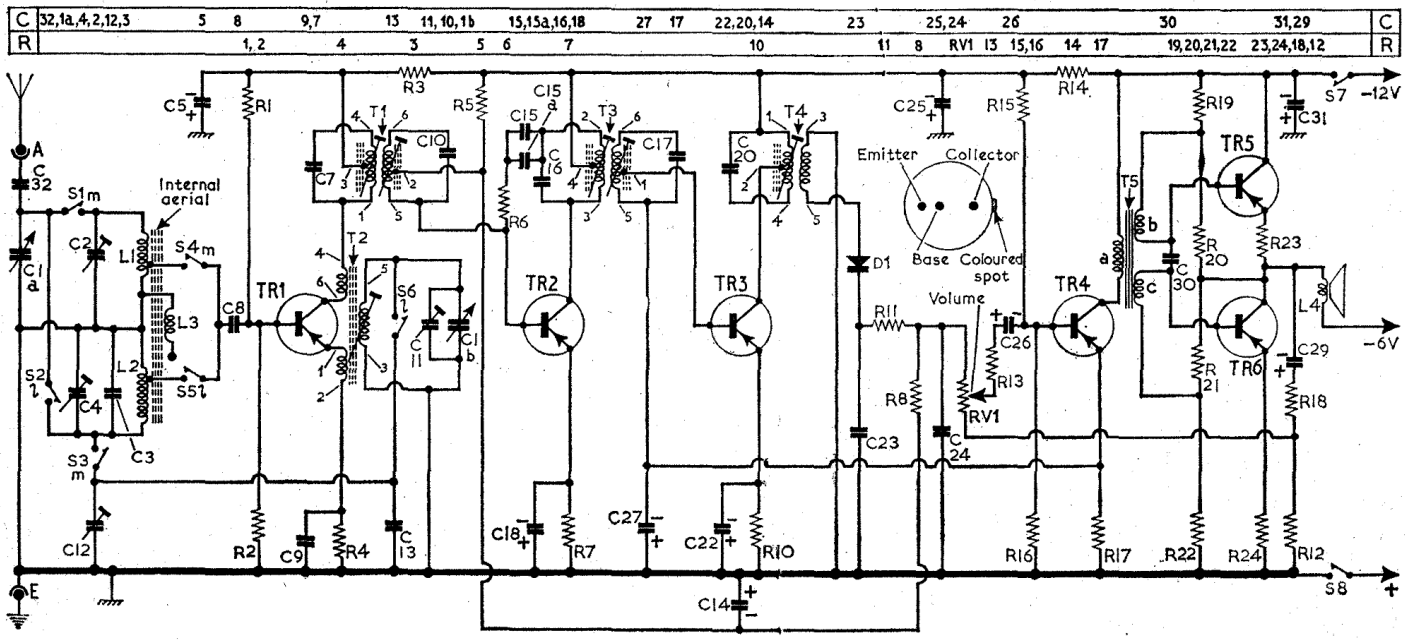
Transformers*

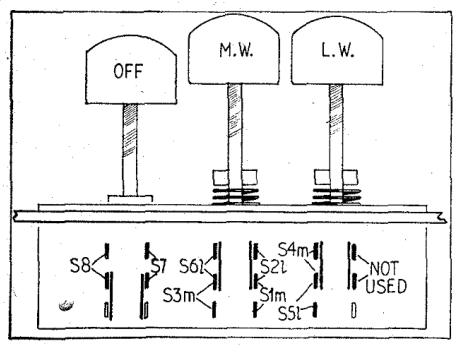
T1	—	B1
T2	—	A1
T3	—	B1
T4	—	B1
T5 a	150·0	C3
T5 b	40·0	C3
T5 c	40·0	C3

Miscellaneous

D1	OA70	B1
S1-S8	—	A3

**Approximate D.C. resistance in ohms.*
†No component.





Press-button switch unitas direction as the arrow