



Capacitors

C1	25pF	A2
C2	410pF	B2
C3	—	V2
C4	50pF	A1
C5	85pF	A1
C6	0.04μF	D3
C7	50pF	A1
C8	0.04μF	D3
C9	0.02μF	A1
C10	400pF	A1
C11	400pF	A1
C12	—	B1
C13	480pF	A1
C14	410pF	B1
C15	325pF	A1
C16	10μF	D3
C17	0.04μF	D3
C18	13pF	D4
C19	400pF	A2
C20	400pF	A2
C21	0.04μF	D3
C22	0.04μF	D4
C23	0.04μF	D4
C24	250pF	A2
C25	25pF	A2
C26	0.02μF	A2
C27	100μF	D4
C28	0.02μF	D4

Resistors

R1	150kΩ	A2
R2	33kΩ	D3
R3	8.2kΩ	D3
R4	3.3kΩ	A1
R5	390Ω	D3
R6	56kΩ	D3
R7	3.3kΩ	D4
R8	680Ω	D4
R9	1kΩ	D3
R10	15kΩ	D4
R11	3.3kΩ	D4
R12	2.2kΩ	D4
R13	1kΩ	D4
R14	8.2kΩ	D4
R15	470Ω	D4
R16	5kΩ	C3
R17	330Ω	C3
R18	18kΩ	C4
R19	18kΩ	C3
R20	1kΩ	C4
R21	1kΩ	C3
R22	3kΩ	C4
R23	100Ω	C4
R24	3kΩ	C4

R25	100Ω	C4
R26	6.8Ω	C4
R27	6.8Ω	C4
R28	470Ω	C4
R29	10Ω	C3

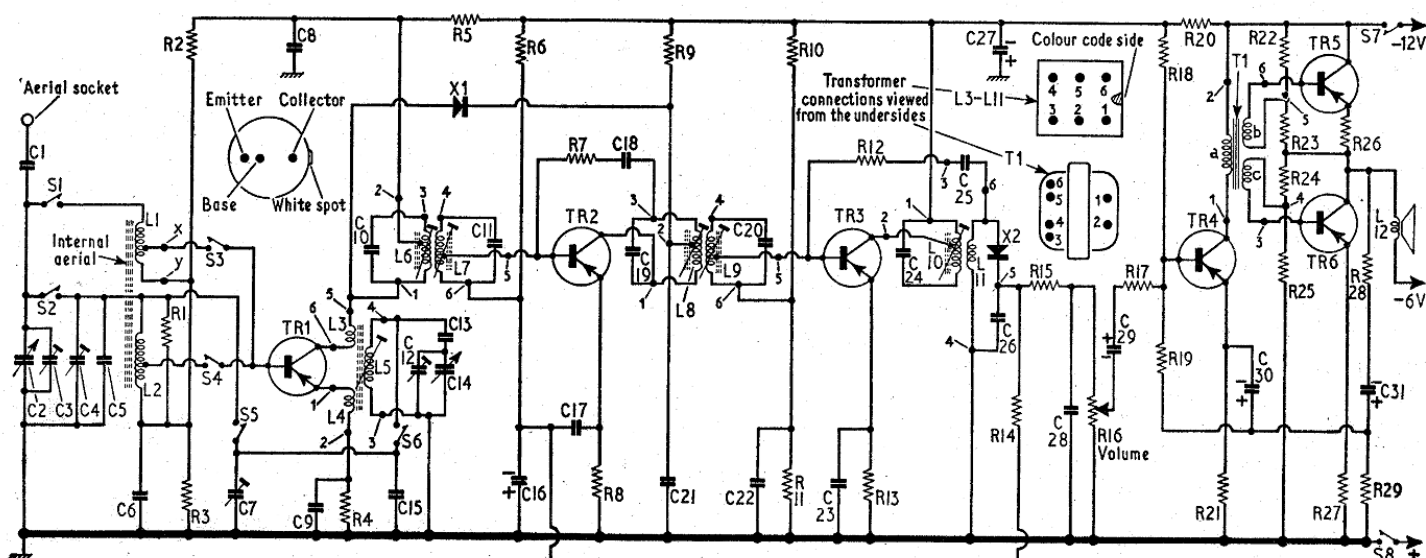
Coils*

L1	—	B2
L2	4.5	A2
L3	—	A2
L4	—	A2
L5	2.5	A2
L6	4.0	A1
L7	4.0	A1
L8	4.0	A2
L9	4.0	A2
L10	4.0	A2
L11	—	A2
L12	30.0	—

Miscellaneous*

T1	{ a 200.0 b 40.0 c 40.0 }	B2
X1	CG6E	D3
X2	CG12E	A2
S1-S8	—	D3

*Approximate D.C. resistance in ohms.



CIRCUIT ALIGNMENT

Equipment Required.—A signal generator, modulated 30 per cent at 400c/s and an A.C. voltmeter for use as output meter.

- 1.—Switch the receiver to M.W. Turn the volume control to maximum and set the tuning gang to maximum capacitance. Connect the output meter across the speaker speech coil L12. Connect the signal generator live lead to the tapping on L1 (location reference B2), and its earthy lead to the junction of R3, C6.
- 2.—Feed in a modulated 472kc/s signal and adjust the cores of L10 (A2), L9 (D4), L8 (A2), L7 (D4) and L6 (A1) for maximum output, progressively reducing the signal generator output as the circuits come into line.
- 3.—Check that with the tuning gang at maximum capacitance the cursor coincides with the datum marks at the right-hand ends of the tuning scales.
- 4.—Loosely couple the signal generator output to the ferrite aerial rod. Tune the receiver to 600kc/s. Feed in a modulated 600kc/s signal and adjust the core of L5 (location reference A2) for maximum output.
- 5.—Tune the receiver to 1,500kc/s. Feed in a modulated 1,500kc/s signal and adjust C12 and C3 (location references B1, B2) for maximum output.
- 6.—Tune the receiver to 600kc/s. Feed in a 600kc/s signal and slide L1 (location reference B2) along the ferrite rod for maximum output. If considerable adjustment of L1 is required repeat operations 4, 5 and 6.
- 7.—Switch the receiver to L.W. and tune it to 250kc/s. Feed in a modulated 250kc/s signal and adjust C7 and C4 (location reference A1) for maximum output. As oscillator pulling may occur when adjusting C7, care should be taken to adjust C7 and C4 at the correct tracking point.
- 8.—Tune the receiver to 170kc/s. Feed in a modulated 170kc/s signal and slide L2 (location reference A2) along the ferrite rod for maximum output. Repeat operation 7 if considerable adjustment of L2 is required.

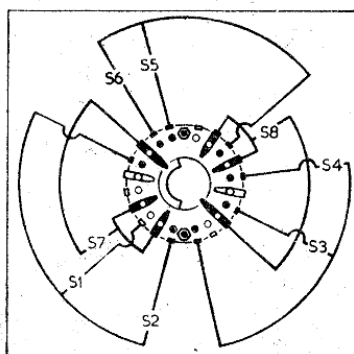
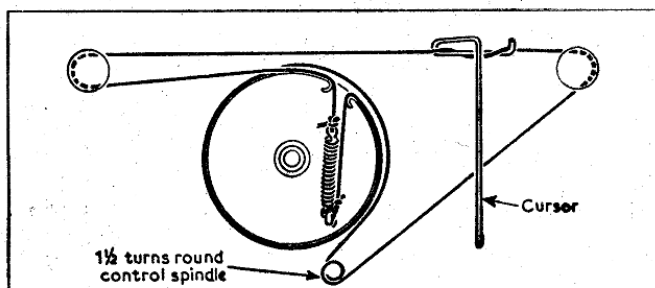


Diagram of the switch unit S1-S8 as seen in location D3.

Transistor	Collector (mA)
TR1 XA102	0.3
TR2 XA101	1.2
TR3 XA101	1.2
TR4 XB103	2.8
TR5 XC101	2.1
TR6 XC101	2.1

Drive Cord Replacement.—About 38in of nylon-braided glass yarn is required for a new drive cord. It should be run as indicated in the sketch in cols. 1, 2, where it is drawn as seen when viewed from the front of the chassis with the tuning scale and backing plate removed and with the gang at minimum capacitance.

DECCA - TP22, TT33