

Resistors

R1	120kΩ	F3
R2	1.2MΩ	F3
R3	27kΩ	F3
R4	33kΩ	F3
R5	1.2MΩ	F4
R6	39kΩ	F4
R7	1.2kΩ	F3
R8	1.5kΩ	E3
R9	560Ω	D4
R10	1.2MΩ	F4
R11	300Ω	D4
R12	33kΩ	F4
R13	1.2MΩ	F4
R14	470kΩ	F4
R15	1MΩ	B1
R16	10MΩ	F4
R17	150Ω	D4
R18	2.7MΩ	F4
R19	470Ω	D4
R20	820kΩ	F4
R21	1.8MΩ	F4
R22	33kΩ	F4
R23	560Ω	F4
R24	8.2kΩ	E4
R25	10kΩ	D3
R26	505Ω	D3
R27	573Ω	D3
R28	2.92kΩ	D3
R29	3.75kΩ	B1
R30	243Ω	D3
R31	193Ω	D3

R32	3.8kΩ	D3
R33	1.5kΩ	D3

Capacitors

C1	2.5pF†	A1
C2	180pF	B2
C3	—	A1
C4	—	A1
C5	220pF	A1
C6	0.01μF	F3
C7	100pF	A1
C8	100pF	A1
C9	100μF	E3
C10	220pF	B1
C11	550pF	B1
C12	—	A1
C13	15pF	A1
C14	—	A1
C15	527pF	A1
C16	—	A1
C17	4.700pF	B1
C18	0.01μF	F3
C19	0.01μF	F3
C20	0.01μF	E4
C21	100pF	A2
C22	100pF	A2
C23	1μF	E3
C24	0.01μF	F3
C25	220pF	E4
C26	0.01μF	F4
C27	0.01μF	F4
C28	0.01μF	F4

C29	0.002μF	F4
C30	8μF	B2
C31	0.002μF	F4
C32	40μF	B2
C33	0.03μF	C2
C34	0.03μF	C2
C35	40μF	B2

Coils*

L1	0.7	A1
L2	3.7	B1
L3	11.0	A1
L4	11.0	A1
L5	3.0	B1
L6	2.3	B1
L7	11.0	A2
L8	11.0	A2
L9	2.0	—

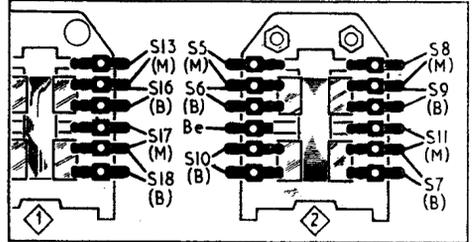
Other Components*

T1	{ a 650.0 } B2
	{ b — } B2
MR1	18RA-1-1-16-1 C2
S1-S4	— B1
S5-S11	— D4
S13	— B1
S16-S18	— B1
S12	— B1
S14, S15	— B1

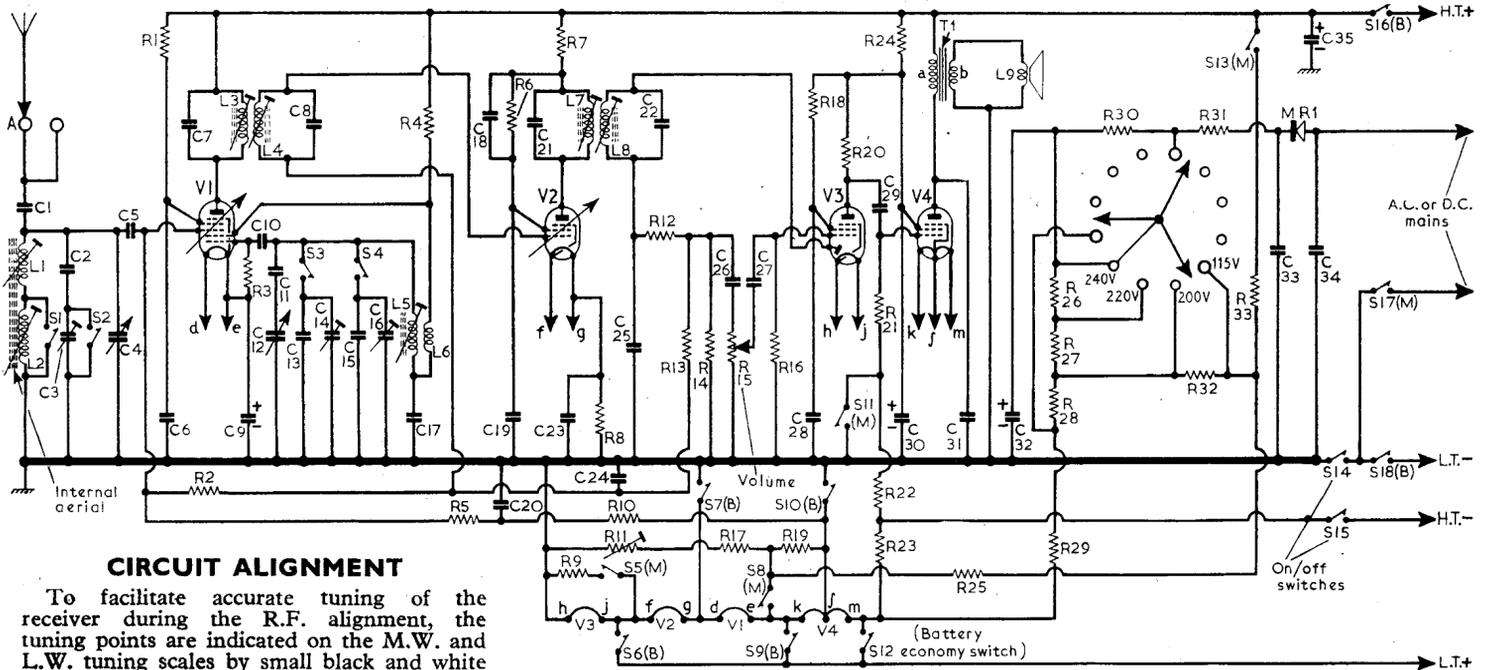
*Approximate D.C. resistance in ohms.
†Two 5 pF in series.

REGENTONE - DOUBLE TWO

Valve	Anode		Screen	
	(V)	(mA)	(V)	(mA)
V1 DK96 {mixer	84	0.42	68	0.11
V2 DF96 {Osc. ..	82	1.45	66	0.48
V3 DAF96 ..	31	56μA	30	17μA
V4 DL96 ..	82	3.5	78	0.66



Above: Diagram of battery/mains switch.



CIRCUIT ALIGNMENT

To facilitate accurate tuning of the receiver during the R.F. alignment, the tuning points are indicated on the M.W. and L.W. tuning scales by small black and white dots respectively.

- 1.—Switch receiver to M.W., turn gang and volume control to maximum. Connect output meter across T1 secondary winding. Connect signal generator, via 0.1μF capacitors, between V2 (pin 6) and chassis.
- 2.—Feed in a modulated 470kc/s signal and adjust the cores of L8 (A2) and L7 (A2) for maximum output, progressively reducing the signal generator output as the circuits are aligned.
- 3.—Connect signal generator between V1 control grid (pin 6) and chassis. Feed in a 470kc/s signal and adjust the cores of L4 (A1) and L3 (A1) for maximum output, again reducing the signal generator output as the circuits are aligned.
- 4.—Turn the gang to maximum capacitance and check that the tuning pointer coincides with the lines separating the M.W. and L.W. scales. Connect signal generator, via a dummy aerial, between the aerial socket and chassis.
- 5.—Switch receiver to M.W. and tune it to 522m. Feed in a modulated 575kc/s signal and tune L5 (B1) to the first peak obtained from the adjusting end of the coil. Then adjust the former of L1 (A1) along the ferrite rod for maximum output.
- 6.—Tune the receiver to 200m. Feed in a 1,500kc/s signal and adjust C14 (A1) and C3 (A1) for maximum output.
- 7.—Repeat operations 5 and 6.
- 8.—Switch receiver to L.W. and tune it to 1,335m. Feed in a 225kc/s signal and adjust C16 (A1) and L2 (B1) for maximum output. Adjust L2 by sliding its former along the ferrite rod.
- 9.—Repeat operation 8.
- 10.—Seal the formers of L1 and L2.

Switches.—S1-S4 are the waveband switches ganged in a single rotary unit. This unit is indicated in the plan view of the chassis (location reference B1), where the individual switch contacts are identified. S1, S3 close for M.W. operation, and S2, S4 close for L.W.

S5-S11, S13 and S18 are the mains/battery change-over switches, ganged in a double sliding unit and shown in the plan view of the chassis (location reference D4), and is also shown in detail in the diagrams in col. 3. The two sections of the unit are identified by the numbers 1 and 2 in diamond surrounds. The action of the switches is indicated by their suffixes (M), which means that it closes for mains operation, and (B), which means that it closes for battery operation. The unit is operated by the insertion of the main's lead in its chassis socket.

S12 is the battery economy switch and is indicated in the plan view of the chassis (B1).

S14, S15 are the "on/off" switches ganged with the volume lead in its chassis socket.