

# REGENTONE - DW1, DP2

Valve	Anode		Screen		Cath.
	V	mA	V	mA	
V1 UCH81 ...	168	2.0	70	5.6	—
V2 UBF80 ...	85	4.5	62	1.65	—
V3 UCL83 {a	168	4.2	—	—	—
b	100	0.6	—	—	—
V4 UY85 ...	210	27.5	168	4.9	9.5
	204*	—	—	—	220-0

\* A.C. rating.

**Switches.**—S1-S4 are the band switches ganged in a single rotary unit on the chassis deck. This unit is indicated at A2 in the rear illustration of the chassis where the switch tags are identified. With the band switch control set anti-clockwise for L.W. operation, switches S2 and S4 close. For M.W. operation switches S1, S3 close.

## CIRCUIT ALIGNMENT

- 1.—Switch receiver to M.W. and turn gang to maximum. Connect output of signal generator, via an 0.1  $\mu$ F isolating capacitor in each lead, between chassis and control grid (pin 2) of V2.
- 2.—Feed in a 470 kc/s signal and adjust the cores of L8 (B2) and L7 (E4)

RESISTORS		Values	Locations
R1	V1 C.G. ...	680k $\Omega$	F4
R2	V1 S.G. feed ...	18k $\Omega$	F4
R3	V1 osc. C.G. ...	47k $\Omega$	F3
R4	V1 osc. anode feed ...	18k $\Omega$	F3
R5	V2 S.G. feed ...	68k $\Omega$	F4
R6	A.G.C. decoup. ...	1.8M $\Omega$	F3
R7	I.F. stopper ...	100k $\Omega$	E4
R8	Diode load ...	220k $\Omega$	E3
R9	Volume control ...	500k $\Omega$	B2
R10	V3a C.G. ...	5.6M $\Omega$	E4
R11	V3a anode load ...	120k $\Omega$	D4
R12	V3b C.G. ...	470k $\Omega$	D4
R13	H.T. smoothing ...	2.2k $\Omega$	C1
R14	V3b G.B. ...	270 $\Omega$	D4
R15	Heater ballast ...	980 $\Omega$	C2
R16	V4 surge limiter ...	150 $\Omega$	C2
R17	Voltage adj. ...	140 $\Omega$	C2

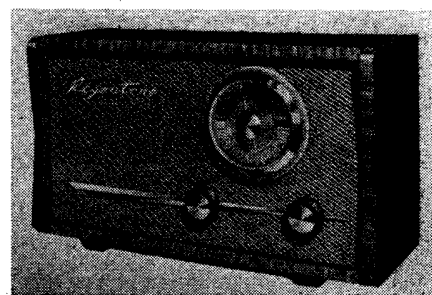
CAPACITORS		Values	Locations
C1	L.W. aerial trim. ...	200pF	A1
C2	M.W. aerial trim. ...	—	F3
C3	Aerial tuning ...	—	A1
C4	V1 C.G. ...	100pF	A2
C5	V1 S.G. decoup. ...	0.01 $\mu$ F	F3
C6	1st I.F.T. ...	100pF	A2
C7	tuning ...	100pF	A2
C8	A.G.C. decoupling ...	0.04 $\mu$ F	F3
C9	V1 osc. C.G. ...	100pF	A1
C10	Osc. tracker ...	585pF	A2
C11	Osc. tuning ...	—	A2
C12	M.W. osc. trim. ...	—	F3
C13	L.W. osc. trimmers {	—	F3
C14	—	550pF	A1
C15	Osc. anode coup. ...	0.001 $\mu$ F	A1
C16	V2 S.G. decoup. ...	0.01 $\mu$ F	F4
C17	2nd I.F.T. tuning ...	100pF	B2
C18	—	100pF	B2
C19	I.F. by-pass ...	100pF	E3
C20	A.F. coupling ...	0.01 $\mu$ F	E4
C21	I.F. by-pass ...	100pF	E4
C22	—	0.01 $\mu$ F	B2
C23	A.F. couplings ...	0.01 $\mu$ F	E4
C24	—	32 $\mu$ F	B2
C25	H.T. smoothing ...	32 $\mu$ F	B2
C26	Tone corrector ...	0.01 $\mu$ F	D4
C27*	Mains R.F. by-pass {	0.02 $\mu$ F	E3
C28	—	0.03 $\mu$ F	B2

\* May be 0.03 $\mu$ F.

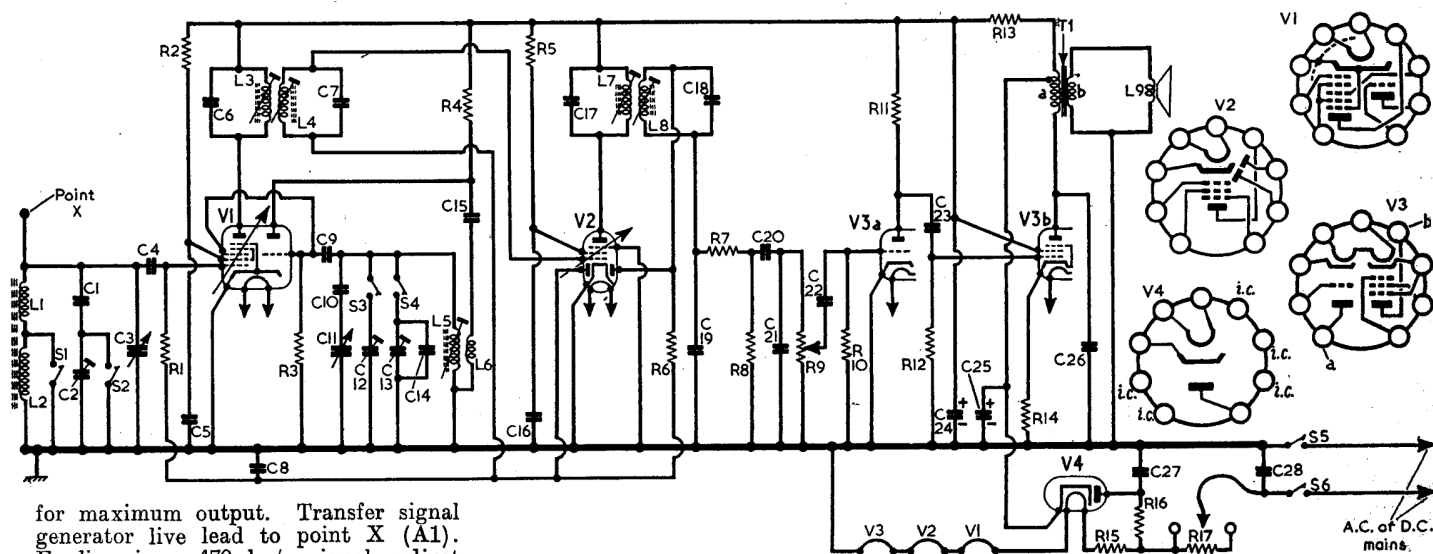
MISCELLANEOUS		Approx. Values (ohms)	Locations
L1	Internal aerials ...	1.0	A1
L2		3.5	B1
L3	1st I.F.T. { Pri. ...	21.0	A2
L4		19.0	A2
L5	Osc. tuning coil ...	3.0	A1
L6	Osc. anode coup. ...	2.5	A1
L7	2nd I.F.T. { Pri. ...	19.0	B2
L8		19.0	B2
L9	Speech coil ...	3.0	C1
T1	O.P. trans { a* ...	380.0	C1
S1-S4	Band switch { b ...	—	C1
S5, S6	Mains sw., g'd R9 ...	—	A2
		—	B2

\* Tapped at 12 $\Omega$  from R13.

Intermediate frequency 470 kc/s.



Appearance of the Regentone DW1



for maximum output. Transfer signal generator live lead to point X (A1). Feeding in a 470 kc/s signal, adjust the cores of L4 (A1) and L3 (F4) for maximum output. Do not re-adjust the cores of L7, L8.

- 3.—Connect a 1pF capacitor as dummy aerial between the signal generator live lead and point X. Check that with gang at maximum capacitance, the cursor coincides with the high wavelength ends of the tuning scales.
- 4.—Tune receiver to the 521.7m calibration mark on the inner edge of the tuning scale, feed in a 575 kc/s signal and adjust the core of L5 (A1) for maximum output, choosing the second peak in from the adjusting end.

- 5.—At the same frequency, adjust the inductance of L1 (A1) for maximum output by sliding the coil along its ferrite rod.
- 6.—Tune receiver to 200m calibration mark on scale, feed in a 1,500 kc/s signal and adjust C12 (F3) and C2 (F3) for maximum output.
- 7.—Repeat the adjustments in operations 4, 5 and 6.

- 8.—Switch the receiver to L.W. and tune it to the 1,333 m calibration mark on the outer edge of the tuning scale. Feed in a 225 kc/s signal and adjust C13 (F3) for maximum output. Adjust the inductance of L2 (B1) for maximum output at this frequency by sliding the coil along its ferrite rod.