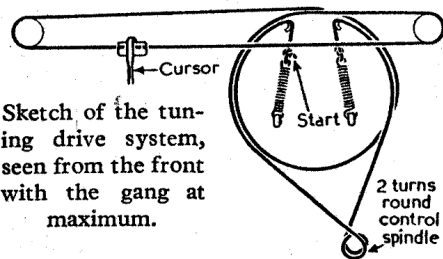


ALBA - 471

OTHER COMPONENTS		Approx. Values (ohms)	Location
L1	Aerial coupling coils ...	0.2	F3
L2		0.6	F3
L3		80.0	F3
L4	Aerial tuning coils ...	Very low	F3
L5		2.2	F3
L6		19.5	F3
L7	Oscillator tuning coils ...	Very low	F3
L8		1.8	F3
L9		5.0	F3
L10	Oscillator reaction coils ...	0.3	F3
L11		1.5	F3
L12		2.0	F3
L13	Osc. R.F. choke ...	215.0	E6
L14	1st I.F. trans. { Pri. ...	6.5	A2
L15		6.5	A2
L16	2nd I.F. trans. { Pri. ...	6.5	B2
L17		6.5	B2
L18	Speech coil ...	2.0	—
T1	Intervalve Pri. ...	1,400.0	D4
T2	Output Pri., total trans. { Sec. ...	3,500.0	D4
	Output Sec. ...	1,400.0	B1
S1-S16	Waveband switches	—	E3
S15, S16	Battery switches, g'd R10 ...	—	C3



Intermediate frequency 455 kc/s.

Valve	Anode Voltage (V)	Anode Current (mA)	Screen Voltage (V)	Screen Current (mA)
V1 KK32	107	0.22	47	1.4
V2 KF35	107	3.5	47	0.28
V3 KBC32	107	1.2	—	—
V4 KL35	106	0.22	107	0.35
V5 KL35	106	2.2	107	0.35

RESISTORS		Values (ohms)	Location
R1	V1 pent. C.G. decoup. ...	250,000	F5
R2	V1 osc. C.G. ...	47,000	E5
R3	S.G.'s H.T. feed ...	33,000	F5
R4	I.F. stopper ...	47,000	B2
R5	A.V.C. decoupling ...	1,200,000	D5
R6	Sig. diode load ...	470,000	B2
R7	Volume control ...	1,000,000	D3
R8	V3 triode load ...	150,000	C5
R9	A.V.C. diode load ...	1,200,000	D5
R10	Tone control ...	50,000	C3
R11	Fixed G.B. and ...	100	C5
R12	A.V.C. delay ...	*500	C5
R13	T1 sec. artificial ...	500,000	C5
R14	centre tap ...	500,000	C6
R15	V4 G.B. decoup. ...	47,000	C5

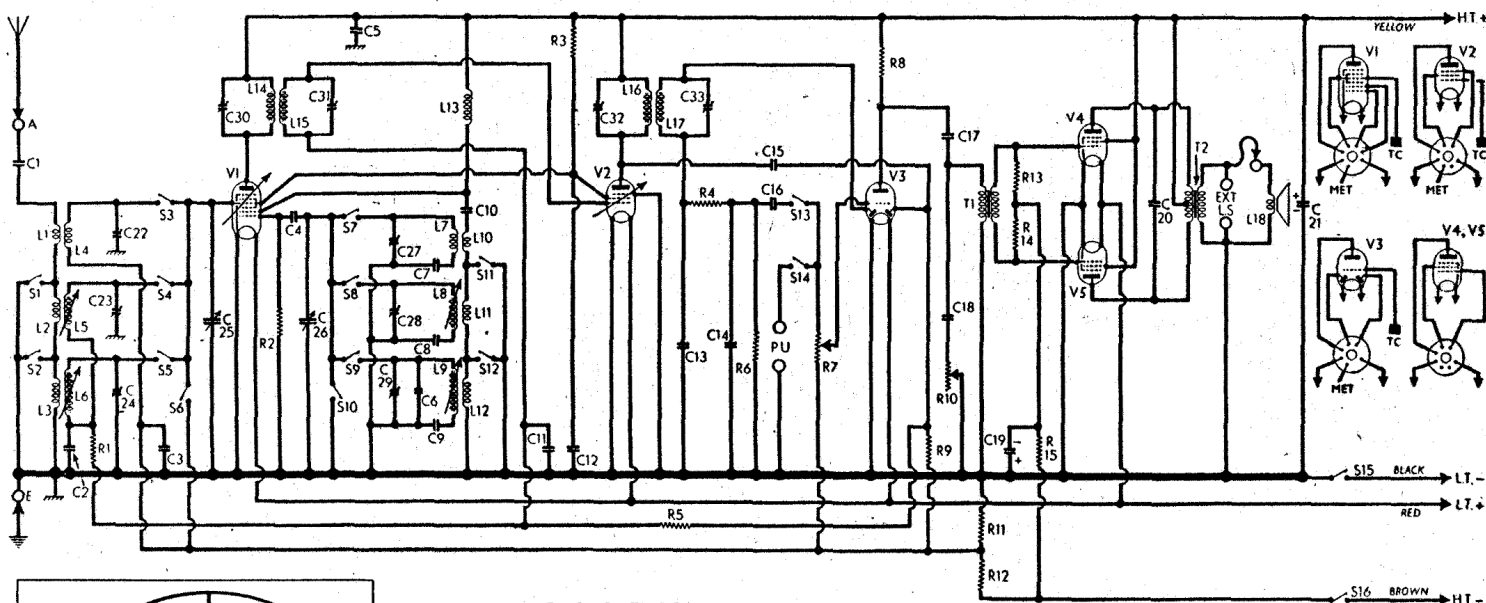
CAPACITORS		Values (μF)	Location
C1	Aerial series ...	0.0002	F5
C2	V1 pent C.G. de- ...	0.05	F5
C3	coupling ...	0.1	D4
C4	V1 osc. C.G. ...	0.0001	E5
C5	H.T. R.F. by-pass ...	0.1	F5
C6	L.W. fixed trim. ...	0.000056	E3
C7	Osc. S.W. tracker ...	0.0056	E3
C8	Osc. M.W. tracker ...	0.000575	E3
C9	Osc. L.W. tracker ...	0.0002	E3
C10	Osc. anode coup. ...	0.0001	E4
C11	V2 C.G. decoup. ...	0.05	D6
C12	S.G.'s decoup. ...	0.1	F5
C13	I.F. by-passes ...	0.0001	B2
C14		0.0001	B2
C15	A.V.C. coupling ...	0.0002	D6
C16	A.F. coupling cap- ...	0.005	C5
C17		0.1	C5
C18	Part tone control ...	0.01	C4
C19*	V4 G.B. by-pass ...	50.0	C4
C20	Tone corrector ...	0.0005	B1
C21*	H.T. reservoir ...	8.0	E6
C22†	Aerial S.W. trim. ...	0.00005	A1
C23†	Aerial M.W. trim. ...	0.00005	E3
C24†	Aerial L.W. trim. ...	0.00005	E3
C25†	Aerial tuning ...	0.0005	A2
C26†	Oscillator tuning ...	0.0005	A1
C27†	Osc. S.W. trim. ...	0.00005	A1
C28†	Osc. M.W. trim. ...	0.00005	E3
C29†	Osc. L.W. trim. ...	0.00005	E3
C30†	1st I.F. transformer {	0.0002	A2
C31†	tuning ...	0.0002	A2
C32†	2nd I.F. transfor- {	0.0002	B2
C33†	mer tuning ...	0.0002	B2

* Electrolytic. † Variable. ‡ Pre-set.

CIRCUIT ALIGNMENT

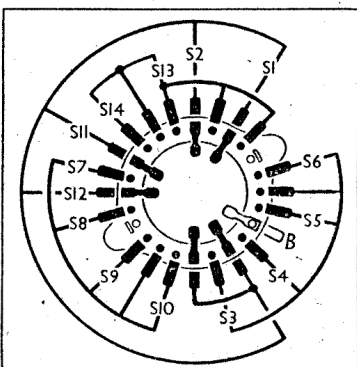
I.F. Stages.—Connect signal generator, via an 0.1 μF capacitor in the "live" lead, to control grid (top cap) of V1 and the E socket. Turn the volume control to maximum, feed in a 455 kc/s (659.3m) signal, and adjust C30, C31, C32 and C33 (location references A2, B2) for maximum output, keeping the input low to avoid A.V.C. action.

* Made up of 200 Ω + 300 Ω in series.



Switch Table

Switch	S.W.	M.W.	L.W.	Gram.
S1	o	—	—	—
S2	o	—	—	—
S3	o	—	—	—
S4	o	o	—	—
S5	—	—	o	—
S6	—	—	—	o
S7	o	—	—	—
S8	—	—	—	—
S9	—	—	—	—
S10	—	—	—	—
S11	o	—	—	—
S12	o	—	—	—
S13	o	—	—	—
S14	—	—	—	o



The switch unit, seen from rear.

R.F. and Oscillator Stages.—With the gang at maximum capacitance the cursor should coincide with the high wavelength ends of the three scales. Transfer "live" signal generator lead, via a suitable dummy aerial, to A socket.

M.W.—Switch set to M.W., tune to 215 m on scale, feed in a 215 m (1,396 kc/s) signal, and adjust C28 and C23 (E3) for maximum output. Tune to 500 m on scale, feed in a 500 m (600 kc/s) signal, and adjust the cores of L3 (D3) L5 (F3) for maximum output. Check setting of L8 at 350 m (857 kc/s) for correct calibration, and repeat the C28, C23 adjustments if necessary.

S.W.—Switch set to S.W., tune to 19 m on scale, feed in a 19 m (15.79 mc/s) signal, and adjust C27 and C22 (A1) for maximum output.

L.W.—Switch set to L.W., tune to 1,000 m on scale, feed in a 1,000 m (300 kc/s) signal, and adjust C29 and C24 (E3) for maximum output. Tune to 1,900 m on scale, feed in a 1,900 m (157.9 kc/s) signal, and adjust the cores of L9 (D3) and L6 (F3) for maximum output. Finally, check the settings of C29 and C24.