

ALBA - 2715 ROVER

Valves		Anode		Screen	
		V	m/A	V	m/A
V1	DK91	74	0.9	37	1.4
V2	DF91	74	1.2	30	0.3
V3	DAF91	*	0.05	*	0.02
V4	DL92	69	9.5	74	2.2

* Negligible readings.

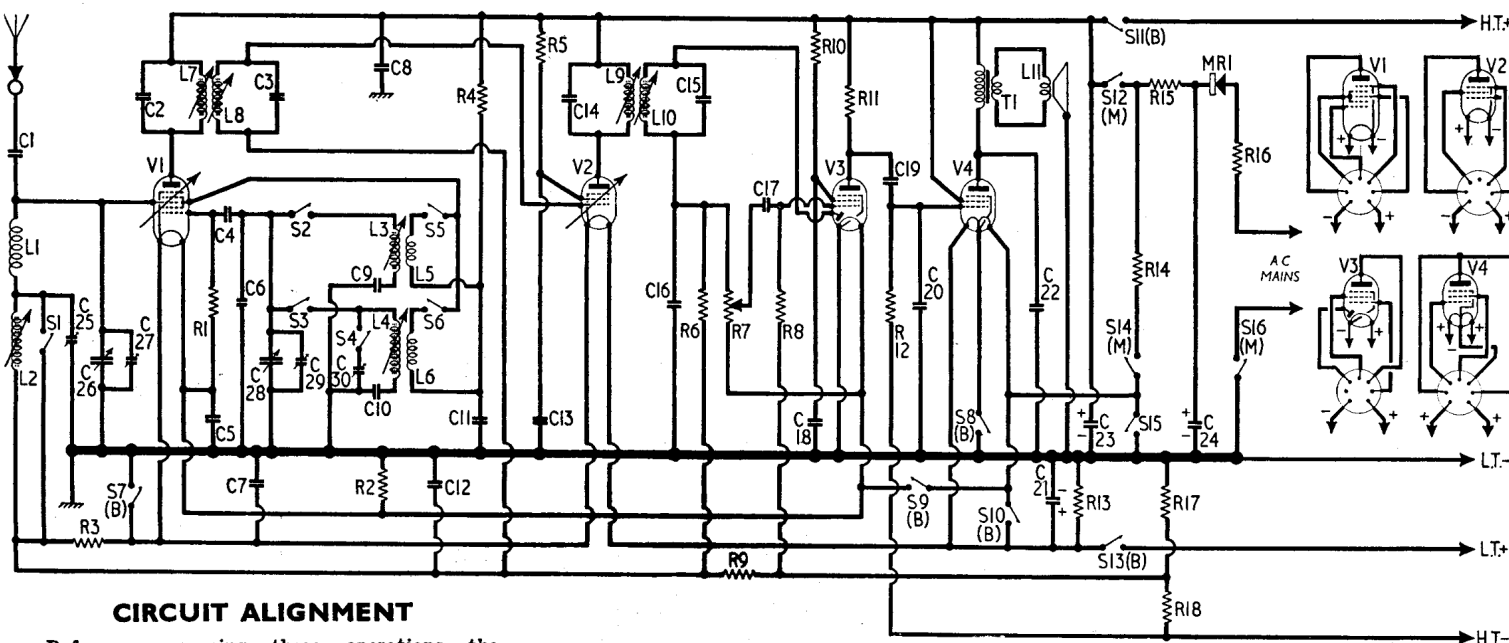
RESISTORS		Values (ohms)	Locations
R1	V1 osc. C.G.	100,000	G6
R2	Fil. shunt	470	D6
R3	A.G.C. decoup.	4,700,000	G6
R4	Osc. anode load	22,000	F5
R5	V2 S.G. decoup.	68,000	F6
R6	A.G.C. Decoup.	4,700,000	E7
R7	Volume control	500,000	C1
R8	V3 C.G. resistor	4,700,000	D7
R9	A.G.C. decoup.	10,000,000	E8
R10	V3 S.G. decoup.	4,700,000	D8
R11	V3 anode load	1,000,000	D6
R12	V4 C.G. resistor	1,000,000	D7
R13	Fil. shunt	560	E7
R14	Filament ballast	1,500	G8
R15	H.T. smoothing	500	G8
R16	Mains dropper	700	A3
R17	V3 G.B. and	100	D8
R18	A.G.C. delay	270	D8

CAPACITORS		Values (μF)	Locations
C1	Aerial series	0.000047	—
C2	1st I.F. trans. tun.	0.0001	A2
C3	V1 osc. C.G.	0.0001	A2
C4	L.T. by-pass	0.0001	G6
C5	Fixed trimmer	0.05	G7
C6	L.T. by-pass	0.000015	B1
C7	H.T. R.F. by-pass	0.05	G6
C8	M.W. tracker	0.1	F5
C9	L.W. tracker	0.0005	A2
C10	Osc. anode decoup.	0.000165	A2
C11	A.G.C. decoup.	0.05	F6
C12	V2 S.G. decoup.	0.05	G7
C13	2nd I.F. trans. tun.	0.1	F6
C14	1st I.F. trans. tun.	0.0001	B1
C15	V1 osc. C.G.	0.0001	B1
C16	I.F. by-pass	0.0001	D7
C17	A.F. coupling	0.05	E6
C18	V3 S.G. decoup.	0.05	E6
C19	A.F. coupling	0.005	E7
C20	I.F. by-pass	0.0001	D7
C21*	Filament shunt	50.0	G8
C22	Tone corrector	0.005	D7
C23*	H.T. smoothing	32.0	A4
C24*	capacitors	32.0	A4
C25†	Aerial L.W. trim.	0.0001	A3
C26†	Aerial tuning	\$0.000364	B1
C27†	Aerial M.W. trim.	—	B1
C28†	Oscillator tuning	\$0.000364	B2
C29†	Osc. M.W. trim.	—	B2
C30†	Osc. L.W. trim.	0.0001	A3

* Electrolytic. † Variable. ‡ Pre-set.
§ "Swing" value, min. to max.

OTHER COMPONENTS		Approx. Values (ohms)	Locations
L1	Frame aerial	—	—
L2	L.W. loading coil	13.5	A1
L3	Oscillator tuning coils	6.5	A3
L4	Oscillator reaction coils	14.5	A3
L5	1st I.F. trans. { Pri.	3.0	A3
L6	1st I.F. trans. { Sec.	5.0	A3
L7	2nd I.F. trans. { Pri.	10.0	A2
L8	2nd I.F. trans. { Sec.	10.0	A2
L9	Speech coil	10.0	B1
L10	Speech coil	12.0	B1
L11	Speech coil	3.0	—
T1	O/p ut trans. { Pri.	500.0	B4
S1-S6	W/band switches	0.2	G5
S7-S16	Mains/Battery and on/off switches	—	D5

Intermediate frequency 470 kc/s.



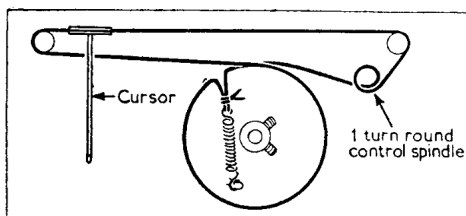
CIRCUIT ALIGNMENT

Before commencing these operations the chassis must be removed from the carrying case complete with frame aerial, which must remain connected. If the alignment does not require adjustment of either L3 or L10, the receiver may remain on its baffle; otherwise the baffle must be removed.

I.F. Stages.—Switch set to M.W., turn gang to minimum capacitance and volume control to maximum, switch set to battery operation and connect signal generator, via a 0.01 μF capacitor in the "live" lead to control grid (pin 6) of V1 and chassis. Feed in a 470 kc/s (638.3 m) signal, and adjust the cores of L10, L9, L8 and L7 (location references E5, B1, G6 and A2) for maximum output. Repeat these adjustments until no improvement results.

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 C30 (A3) and C25 (A3) for maximum output. Tune to 1,875 m on scale, feed in an 1,875 m (160 kc/s) signal and adjust L2 (A1) and L4 (A3) for maximum output. Repeat these operations until no further improvement results.

Drive Cord Replacement.—Two feet of fine quality plaited flax fishing line are required for the drive cord, which is run as shown in the sketch in col. 1 where it is viewed from above with the gang at maximum. The scale backing plate must be removed, and when replacing, a brass washer goes between it and each mounting pillar.



The tuning drive system seen from above with scale removed and the gang at maximum.

Chassis Divergencies.—In early versions, a frame aerial winding will be found round the speaker sub-baffle. This is never used. Capacitors C5, C7 and C13 may be either 0.05 μF or 0.1 μF.