

# ALBA - 101,707,LP707

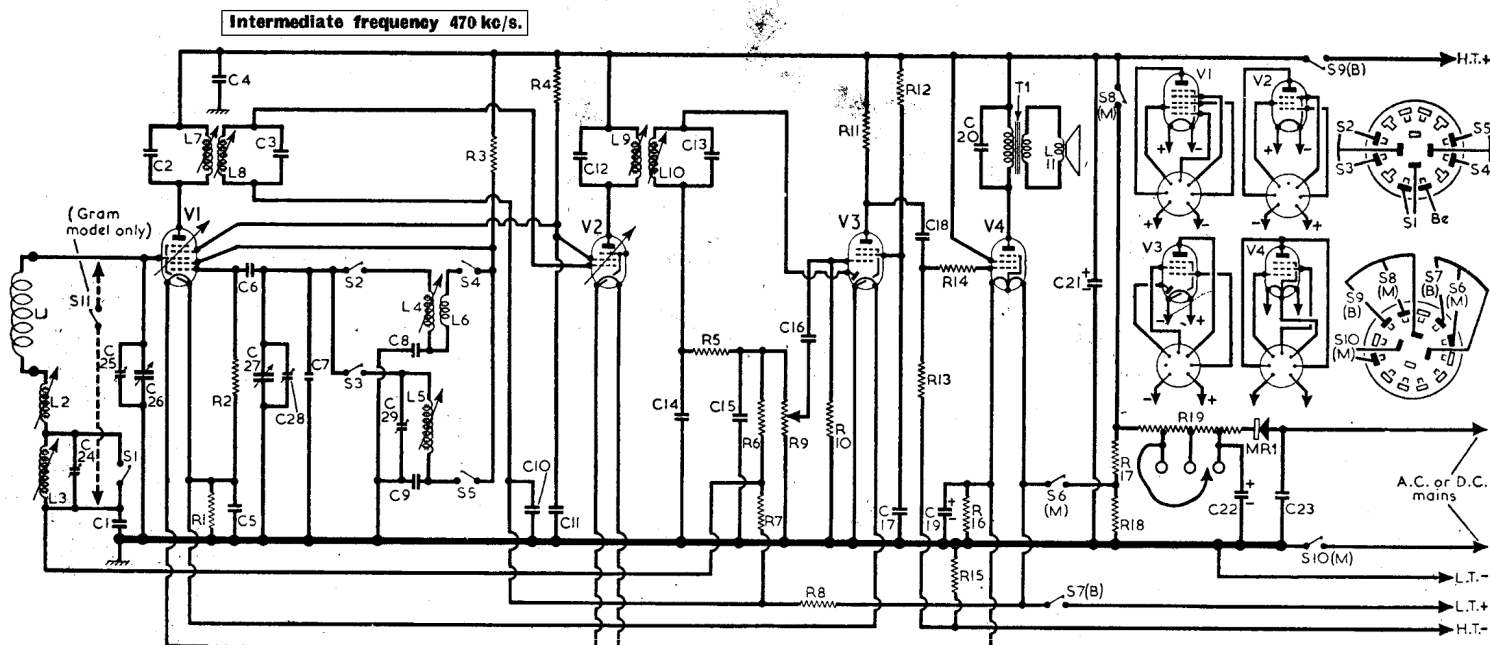
OTHER COMPONENTS		Approx. Values (ohms)	Locations
L1	Frame aerial	1.6	—
L2	M.W. loading coil	1.6	C1
L3	L.W. loading coil	10.0	C1
L4	Oscillator tuning coils	3.8	D2
L5		8.0	D2
L6	M.W. osc. reaction	2.0	D2
L7	1st I.F. trans.	14.0	C1
L8		14.0	C1
L9	2nd I.F. trans.	14.0	B1
L10		14.0	B1
L11	Speech coil	2.5	—
T1	O.P. trans.	500.0	—
S1-S5	Waveband switches	—	C1
S8(M)-S10(M)	Mains/battery sw.	—	D3
S11-S13	Gram sw., 707 series	—	—
MR1	Two SenTerCel RM1's	—	A1

CAPACITORS		Values	Locations
C1	A.G.C. decoupling	0.1μF	C1
C2	1st I.F. trans. tuning	100pF	C1
C3		100pF	C1
C4	H.T. by-pass	0.1μF	E2
C5	Filament by-pass	0.1μF	E3
C6	V1 osc. C.G.	100pF	E2
C7	M.W. osc. trim.	15pF	F3
C8	M.W. osc. tracker	625pF	D2
C9	L.W. osc. tracker	250pF	E2
C10	A.G.C. decoupling	0.05μF	D2
C11	S.G. decoupling	0.05μF	E2
C12	2nd I.F. trans. tuning	100pF	B1
C13		100pF	B1
C14	I.F. by-pass	100pF	F3
C15		100pF	E2
C16	A.F. coupling	0.001μF	E2
C17	V3 S.G. decoupling	0.05μF	G2
C18	A.F. coupling	0.005μF	F2
C19*	Filament by-pass	50μF	G2
C20	Tone corrector	0.005μF	—
C21*	H.T. smoothing	32μF	A1
C22*		32μF	A1
C23	Mains R.F. by-pass	0.01μF	A1
C24†	L.W. aerial trim.	120pF	D2
C25†	M.W. aerial trim.	35pF	F2
C26†	Aerial tuning	523pF	F2
C27†	Oscillator tuning	523pF	F3
C28†	M.W. osc. trim.	35pF	F3
C29†	L.W. osc. trim.	120pF	D2

RESISTORS		Values	Locations
R1	Fil. H.T. by-pass	220Ω	F3
R2	V1 osc. C.G.	27kΩ	E3
R3	Osc. anode feed	33kΩ	E2
R4	S.G. H.T. feed	33kΩ	E2
R5	I.F. stopper	47kΩ	F2
R6	A.G.C. potential divider	2.2MΩ	E2
R7		2.2MΩ	E2
R8	Volume control	10MΩ	E2
R9		2MΩ	D3
R10	V3 C.G.	2.2MΩ	F3
R11	V3 anode load	1MΩ	F3
R12	V3 S.G. feed	4.7MΩ	F2
R13	V4 C.G.	1MΩ	F2
R14	V4 C.G. stopper	10kΩ	F2
R15	V4 G.B.	220Ω	F2
R16	Fil. H.T. by-pass	330Ω	F2
R17	Filament ballast	1,750Ω	F3
R18	Filament shunt	10kΩ	F3
R19	H.T. smoothing	*2.3kΩ	G3

\* Electrolytic. † Variable. ‡ Pre-set.

\* Tapped at 200Ω + 350Ω + 350Ω + 1,400Ω from MR1.



Valve	Anode		Screen	
	V	mA	V	mA
V1 DK92	80	80μA	52	20μA
V2 DF91	35	5.6	52	0.6
V3 DAF91	80	0.9	18	15μA
V4 DL92	18	70μA	80	3.5

**Modification.**—A 15 pF capacitor may be connected across C29 in some models.

## CIRCUIT ALIGNMENT

For the following adjustments, the panel carrying the chassis and speaker should be released from the carrying case (two large-head locking screws), and tilted upwards to lean against the carrying case lid.

**I.F. Stages.**—Switch receiver to M.W. and turn gang to maximum. Connect output of signal generator (via an 0.1 μF capacitor in each lead if receiver is operated from mains supply) 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 (location reference B1), L9 (E2), L8 (C1) and L7 (E2) for maximum output, reducing the input as the circuits come into line to avoid A.G.C. action. Repeat these adjustments.

**R.F. and Oscillator Stages.**—Disconnect signal generator leads and lay them near the frame aerial winding. Check that with the gang at maximum capacitance, the ends of the cursor line up with the two brass pins in the panel escutcheon.

**M.W.**—Switch receiver to M.W., tune to 500 m, feed in a 500 m (600 kc/s) signal and adjust the cores of L4 (D2) and L2 (C1) for maximum output. Tune receiver to 200 m, feed in a 200 m (1,500 kc/s) signal and adjust C28 (F3) and C25 (F2) for maximum output. Repeat these adjustments until no further improvement results.

**L.W.**—Switch receiver to L.W., tune to 1,950 m, feed in a 1,950 m (154 kc/s) signal and adjust the cores of L5 (D2) and L3 (C1) for maximum output. Tune receiver to 1,000 m, feed in a 1,000 m (300 kc/s) signal and adjust C29 (D2) and C24 (D2) for maximum output.