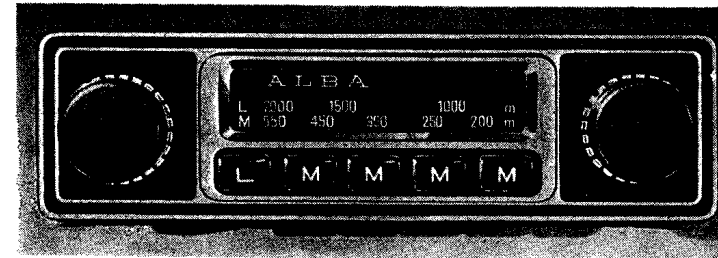


ERT

SERVICE CHART

ALBA ACR2

Car radio



2174

THE ACR2 is a car radio covering long-wave and medium-wave bands and designed for operation on a 12V DC supply. In addition to continuous tuning, facilities are provided for preset tuning, one LW channel and four MW channels. The RF, mixer and oscillator circuits are permeability tuned.

Power supply

12V DC. Adjustment for negative or positive earth is made by means of a switch accessible through the back of the case.

Fuse

FS1: 2A (in battery lead)

Waveband coverage

LW: 150-272kHz
MW: 545-1515kHz

IF

470kHz

Transistors

TR1 9011F
TR2 9011B
TR3 9011F

TR4

9011H

TR5

9011I

TR6

9013E

TR7

2SC1096

TR8

2SC1096

Diodes

D1 CDG21

D2 1N60

D3 1S65

D4 1S65

Audio output

4W via 4ohm loudspeaker

Manufacturer

Alba (Radio & Television) Ltd, Bull Lane, Edmonton, London N18 1SD. Tel: 01-803 4451

Service department

As above.

Alignment

Removal of the case top will provide access to all alignment adjustment points. Connect an AC output meter (4ohms impedance) across the speaker terminals. Connect an AM signal generator, via a dummy aerial, across the aerial socket. Turn the radio volume control to maximum.

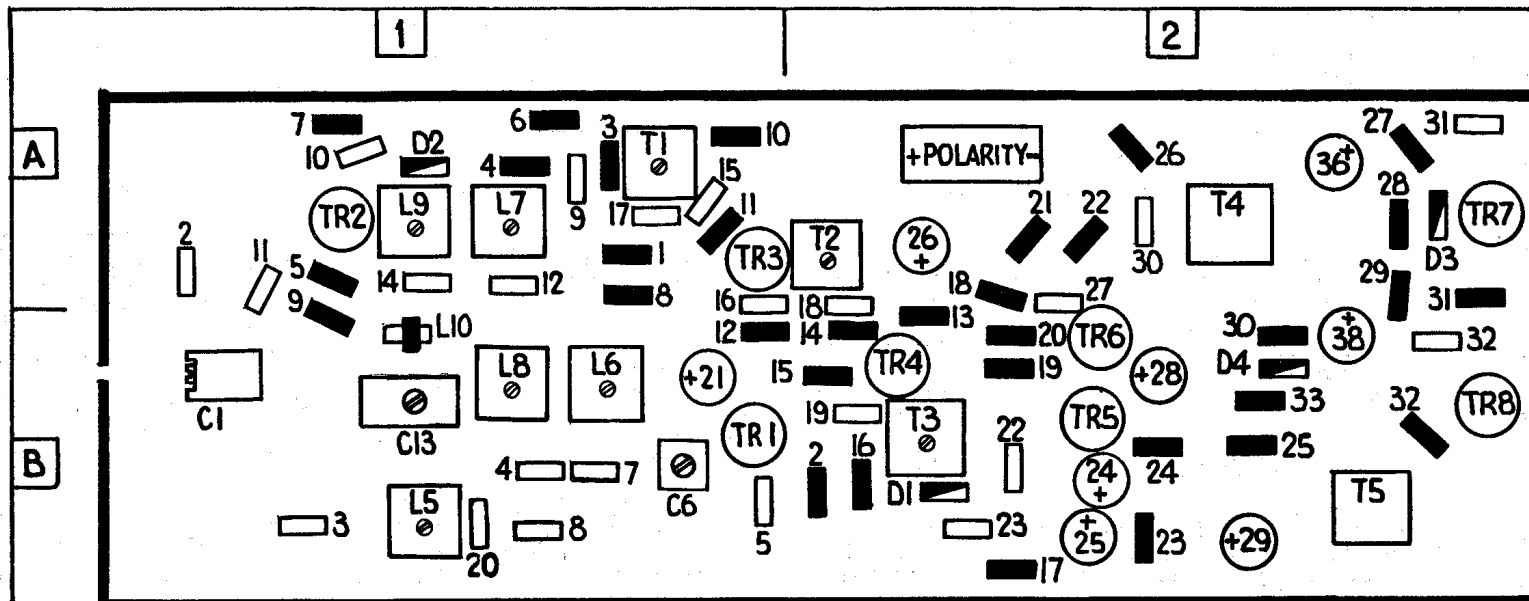
During alignment, progressively reduce the signal generator output level to maintain a useful output indication on the 50mW range of the output meter.

Switch the radio to MW by depressing one of the M buttons and tune to a signal-free position at the low frequency end of the scale. Inject a signal of 470kHz modulated and adjust the cores of T3, T2 and T1, in that order, for maximum output. Repeat these steps for optimum sensitivity.

Tune the radio to 500m (ie midway between the 450 and 550 scale marks), inject a signal of 600kHz and adjust the core of L9 for maximum output. Retune the radio to 200m, inject a signal of 1500kHz, then adjust trimmer C13 for maximum output. Repeat these steps for optimum tracking.

Tune receiver to 300m, inject a signal of 1000kHz and adjust trimmer C6 for maximum output.

Switch to LW by depressing the L button. Tune radio to 2000m, inject a signal of 150kHz, then adjust the core of L7 for maximum output. Retune radio to 1500m, inject a signal of 200kHz, then adjust core of L8 for maximum output. Inject a signal of 175kHz, tune in the signal, then adjust the cores of L6 and L5 for maximum output.

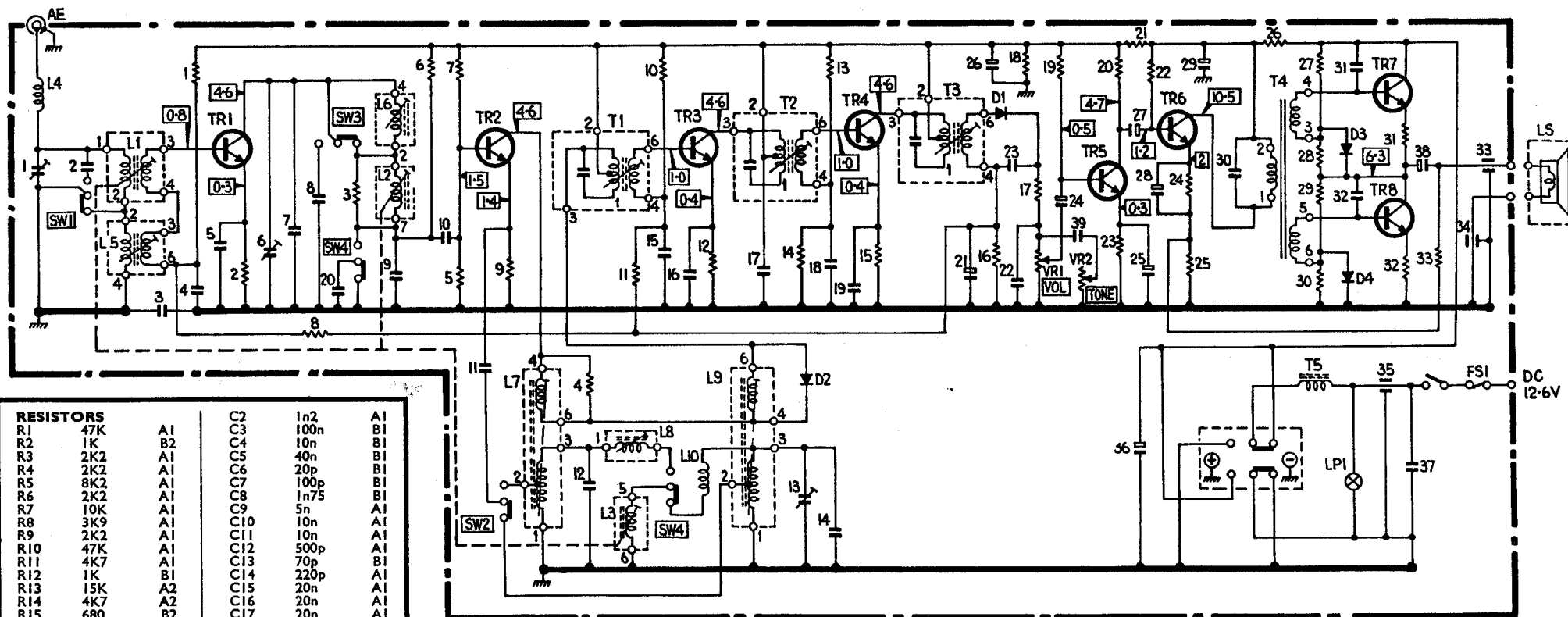


ERT SERVICE CHART

2174

ALBA ACR2

R		1	2	8	3	6	7	5	9	4	11	10	12	14	13	15	16	18	17	19	VR1	VR2	20	21	24	25	26	27	29	31	33								
C	1	2	3	4	5	6	7	8	20	9	10	11	12	15	16	17	13	14	18	19	21	26	23	22	24	36	27	25	28	29	30	31	32	35	37	38	34	33	
L	4	1	5			6	2			7	3	8	T1	10	9	T2					T3																	T4	T5



RESISTORS		CAPACITORS	
R1	47K	A1	1n2
R2	1K	B2	100n
R3	2K2	A1	10n
R4	2K2	A1	40n
R5	8K2	A1	20p
R6	2K2	A1	100p
R7	10K	A1	1n75
R8	3K9	A1	5n
R9	2K2	A1	10n
R10	47K	A1	10n
R11	4K7	A1	500p
R12	1K	B1	70p
R13	15K	A2	220p
R14	4K7	A2	20n
R15	680	B2	20n
R16	10K	B2	20n
R17	1K	B2	20n
R18	560	A2	5n
R19	270K	B2	10µ
R20	1K	B2	10n
R21	470	A2	10n
R22	56K	A2	0.5
R23	560	B2	50µ
R24	30	B2	200µ
R25	10	B2	5µ
R26	100	A2	100µ
R27	470	A2	200µ
R28	68	A2	10n
R29	470	A2	40n
R30	68	B2	40n
R31	0R2	A2	400p
R32	0R2	B2	400p
R33	560	B2	600p
VR1	5K	—	500µ
VR2	5K	—	100n
C1	70p	B1	500µ
C2		C39	220n
C3		A1	—
C4		B1	—
C5		B1	—
C6		B1	—
C7		B1	—
C8		B1	—
C9		A1	—
C10		A1	—
C11		A1	—
C12		A1	—
C13		B1	—
C14		A1	—
C15		A1	—
C16		A1	—
C17		A1	—
C18		A2	—
C19		B2	—
C20		B1	—
C21		B1	—
C22		B2	—
C23		B2	—
C24		B2	—
C25		B2	—
C26		A2	—
C27		A2	—
C28		B2	—
C29		B2	—
C30		A2	—
C31		A2	—
C32		B2	—
C33		—	—
C34		—	—
C35		—	—
C36		A2	—
C37		—	—
C38		B2	—
C39		—	—

Remove the signal generator and dummy aerial. Connect an external aerial to the aerial socket. Switch to MW and tune to a weak station around 200m. Then adjust the aerial trimmer C1 (accessible through a hole in the side of the case) for maximum output.

Servicing notes

Channel setting
To set a pre-set tuning button, tune in the required station (push the L or any M button as appropriate). Pull out fully

the L or M button as required, then push it in firmly again. The channel is then pre-set.

Dismantling

To obtain access to the component side of the PCB, remove the two screws securing the top plate to the back of the casing. The top plate may then be removed. Alignment can be carried out without any further dismantling.

To obtain access to the copper side of PCB, remove the two screws securing the bottom plate to the back of the casing. The cover plate may then be removed.

Additional copies of this chart 50p, including postage. Payment with order please to Room CP34, Dorset House, Stamford Street, London SE1 9LU. Because of increasing storage costs, back numbers will also cost 50p including postage from now on.

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