

General Description: Six-transistor (plus crystal diode), two-waveband portable receiver with sockets for car radio aerial, headphones and tape recorder. A transistor detector (T₃) is used with a crystal diode (X₁) A.G.C. rectifier.

Power Supply: Two 9-volt batteries (type PP9, T6009 or equivalents). With "on load" supply voltage of 18 volts and no signal input consumption should be 15 mA. average.

Wavebands: M.W. 189-555 m.; L.W. 1215-2000 m.

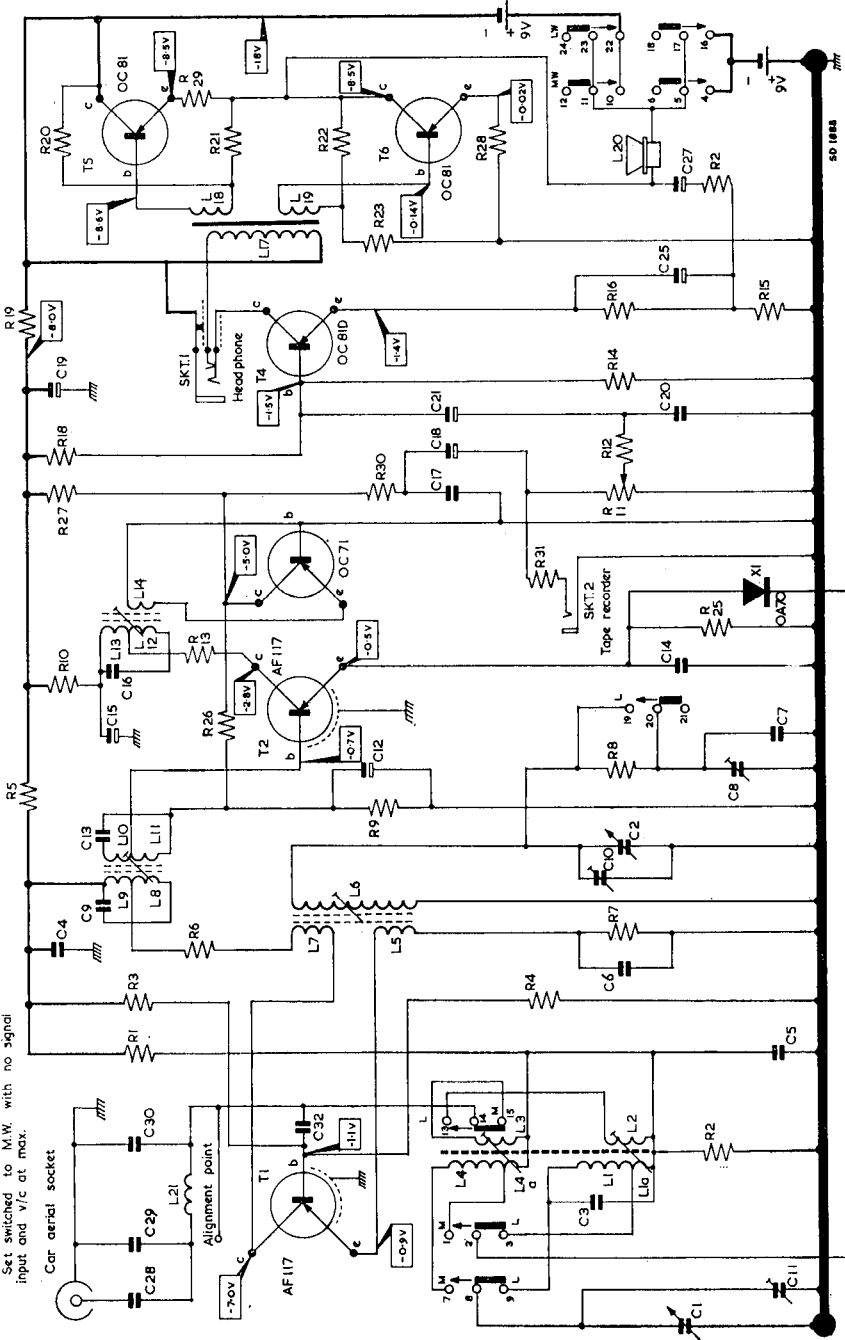
Transistors: (T₁) AF117; (T₂) AF117; (T₃) OC71; (T₄) OC81D; (T₅, T₆) matched OC81. Diode: (X₁) OA70.

Alignment Frequencies: I.F. 470 kc/s. (L₁₃, L_{10/11}, L_{8/9}). M.W. 537 kc/s. (L₆); 1610 kc/s. (C₁₀); 632 kc/s. (L_{3/4}); 1450 kc/s. (C₁₁). L.W. 180 kc/s. (C₈, L_{1/2}).

Dismantling: Place receiver face downwards on soft cloth, release two captive retaining screws and lift off cabinet back. When replacing, it is important to ensure that locating lugs and sockets on their respective mouldings interlock correctly. To detach receiver from front moulding, unsolder earth wire from speaker frame, extract four large fixing screws and ease chassis out of moulding. Withdraw audio panel from slot housing and then prise off four speaker clips. Receiver may now be lifted from front moulding. When assembling, longest of four fixing screws fits hole adjacent to headphone socket. I.F. panel. To gain access to underside of I.F. panel, release bracket attaching panel to main chassis (nearest volume control). Remove this bracket and then pull panel from second bracket. To enable I.F. panel to be turned over audio panel must be withdrawn from its housing.

C3	Capacitors.	C19	100	R3	33k	R17	2·2k
C4	68 pF. (1%)	C20	4,700 pF.	R4	6·8k	R18	56k
C5	0·15	C21	1	R5	100	R19	2·2k
C6	0·1	C25	100	R6	390	R20	2·7k (5%)
C7	18,000 pF.	C27	1	R7	1k	R21	56 (5%)
C8	180 pF.	C28	10,000 pF. (5%)	R8	68k	R22	2·7k (5%)
C9	100 pF.	C29	15 pF. (5%)	R9	10k	R23	56 (5%)
C10	2-30 pF.	C30	15 pF. (5%)	R10	2·2k	R26	270
C11	2-30 pF.	C32	8,200 pF.	R11	50k (log.)	R27	47k
C12	10			R12	470	R27	27k
C14	0·15			R13	180	R28	5·1 (5%, W.W.)
C15	100	Resistors.		R14	18k	R29	5·1 (5%, W.W.)
C17	3,900 pF.	R1	8·2k	R15	15	R30	4·7k
C18	50	R2	390	R16	1k	R31	47k

All voltages taken with respect to chassis using a 10 M Ω impedance V.V. meter.
Set switched to M.W. with no signal input and y/c at max.



SD 1684