PHILIPS Model L2G21T

General Description: Six-transistor (plus diode), two-waveband portable receiver with sockets for car aerial and earpiece. A transistor detector (T_3) with crystal diode (X1) A.G.C. rectifier. Also known as **Model 221T.**

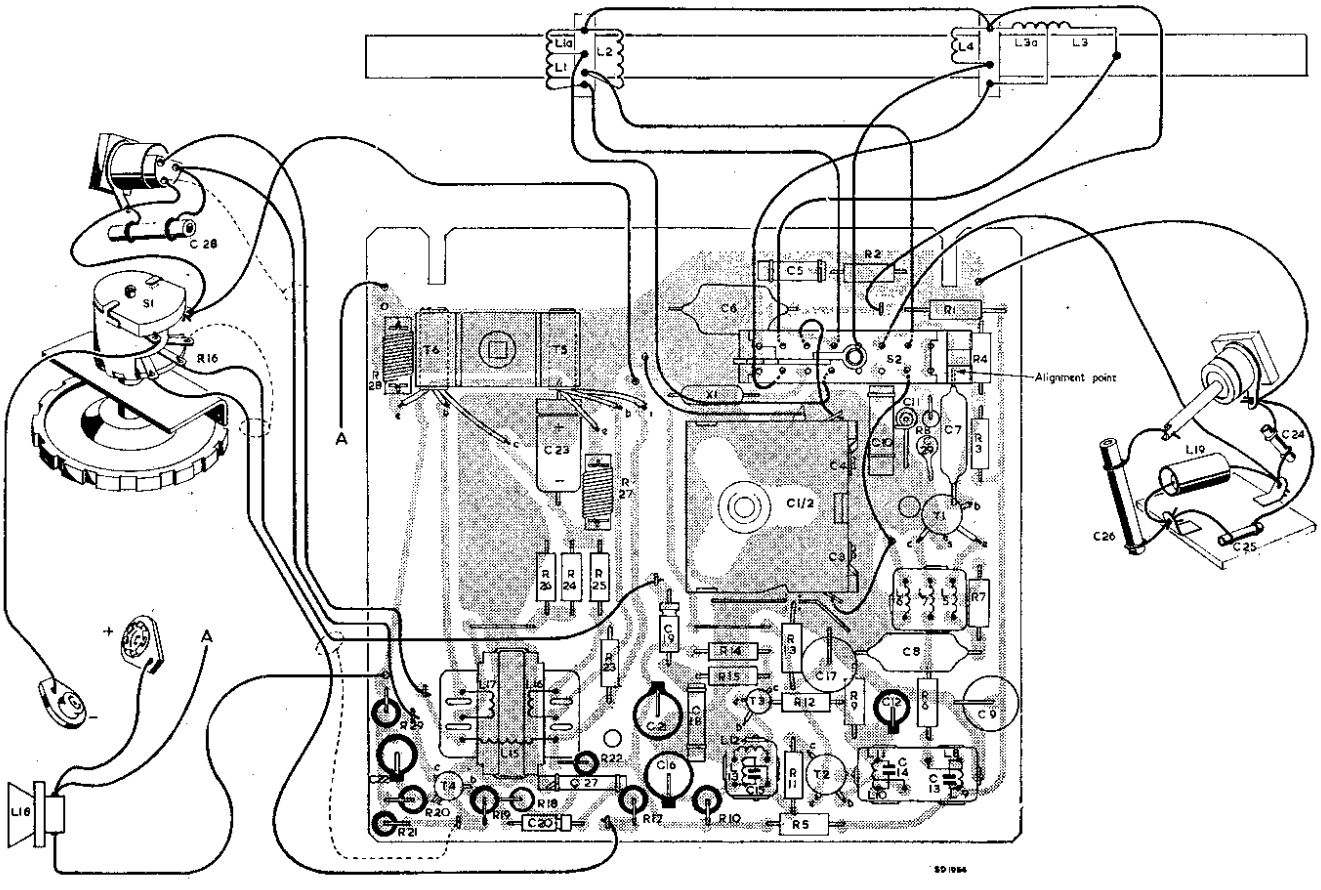
Power Supply: 9-volt battery (PP7 or equivalent). No-signal consumption about 18 mA.

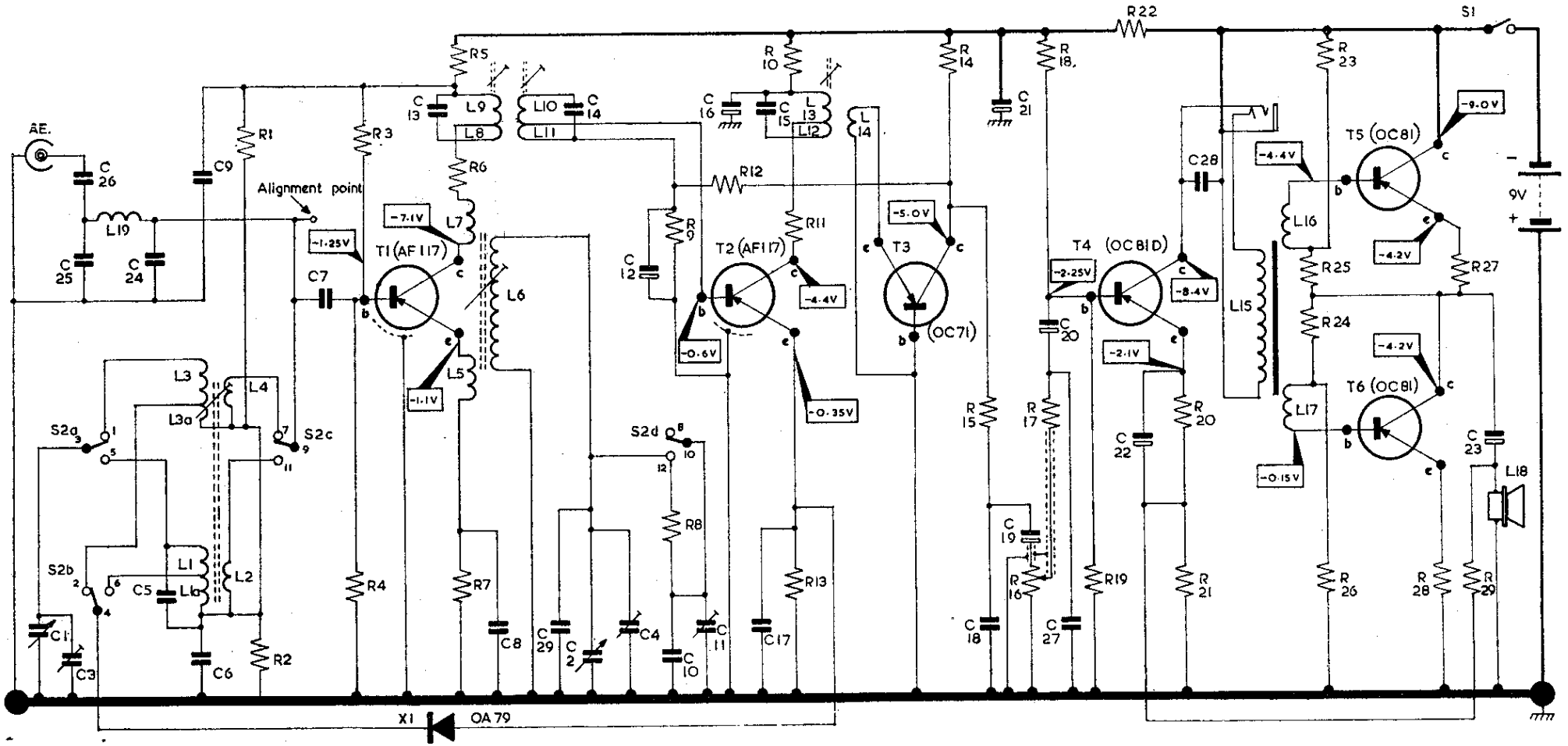
Wavebands: M.W. 187–555m.; L.W. 1215–2000 m.

Transistors: (T1, 2) AF117; (T_3) OC71; (T_4) OC81D; (T_5, 6) matched OC81. Diode (X1) OA70.

Alignment Frequencies: I.F. 470 kc/s. (L12/13, L10/11, L8/9). M.W. 537 kc/s. (L5/6/7); 1610 kc/s. (C4); 623 kc/s. (L3/4); 1400 kc/s. (C3). L.W. 145·5 kc/s. (C11); 180 kc/s. (L1/L2).

Dismantling: *To release chassis.* Place set face up on soft surface, pull off tuning knob and release pointer by springing apart retaining collar with screwdriver. Turn set over, release two captive screws and remove back. Withdraw chassis retaining screws (2) and turn chassis over towards handle. *To replace chassis.* Turn gang to maximum and align lever of wavechange control to operating arm on W/C switch. Turn chassis over into position and replace fixing screws. Place pointer on tuning spindle with arms parallel to cabinet top edge, then push it down to lower section of shaft. Fit tuning knob, battery and cabinet back.

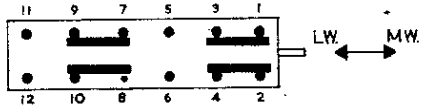




Circuit Diagram—Philips Model L2G21T

Capacitors.

C5	56 pF. (1%)
C6	0·1
C7	8,200 pF.
C8	18,000 pF.
C9	0·15
C10	180 pF.
C11	100 pF.
C12	10
C13	200 pF.
C14	200 pF.
C15	91 pF. (1%)
C16	160
C17	0·15
C18	3,900 pF.
C19	3·2
C20	3·2
C21	160
C22	100
C23	160
C24	15 pF. (5%)
C25	15 pF. (5%)
C26	10,000 pF.
C27	4,700 pF.
C28	10,000 pF.
C29	8 pF. or 3 pF.



W.C. switch shown in M.W. pos. and viewed from print side.

All voltages taken with respect to chassis using a V.V. meter of approx. 10 mΩ impedance.

Resistors.

R1	8·2k
R2	390
R3	33k
R4	6·8k
R5	100
R6	390
R7	1k
R8	68k
R9	10k
R10	2·2k
R11	180
R12	47k
R13	270
R14	27k
R15	4·7k
R16	50k (log.)
R17	470
R18	39k
R19	18k
R20	1k
R21	15
R22	270
R23	1·5k (5%)
R24	1·5k (5%)
R25	82 (5%)
R26	82 (5%)
R27	2·9
R28	2·9
R29	2·2k