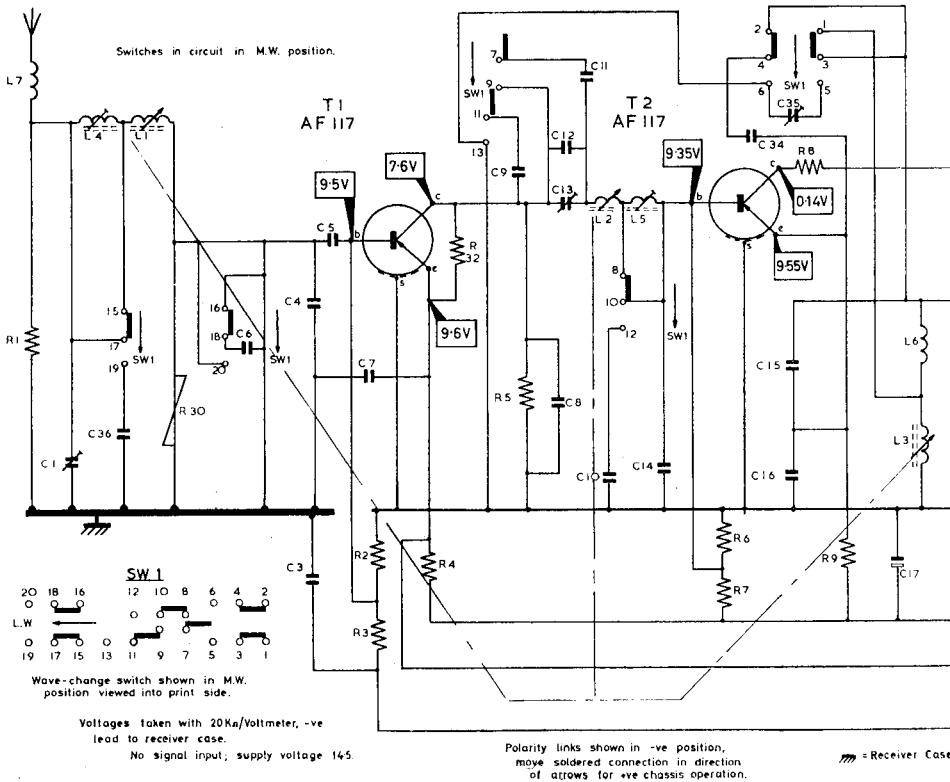
PHILIPS CAR RADIO N3G25T

General Description: Five-transistor (plus two diodes), M.W./L.W. car radio for operation from 12-volt car battery. On circuit diagram polarity



links (SW2) are shown for negative chassis operation but soldered connection can be moved in direction of arrows for positive chassis operation. Also known as **Model 325T**.

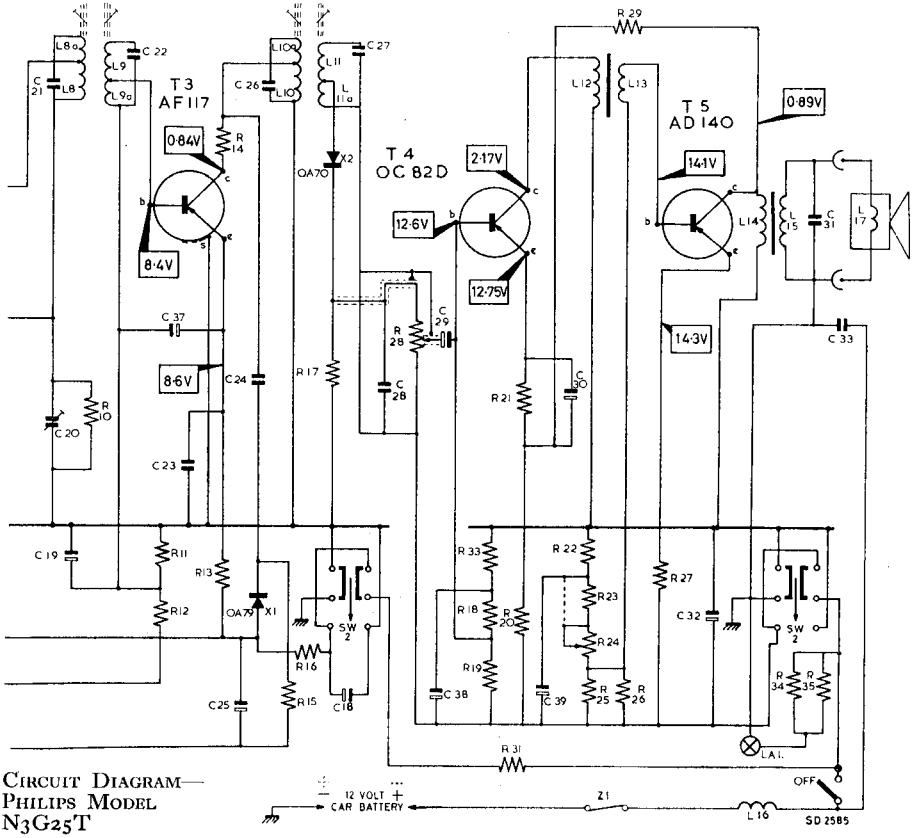
Semiconductors: (T1, 2, 3) AF117; (T4) OC82D; (T5) AD140; (X1) OA79; (X2) OA70. R30 is voltage dependent resistor (part no. E299DD/P220).

Notes: Z1 is 2-amp. fuse. R22, R27 wire-wound. R26 is Varite (130 ohms) part number B8.320.01P/130E.

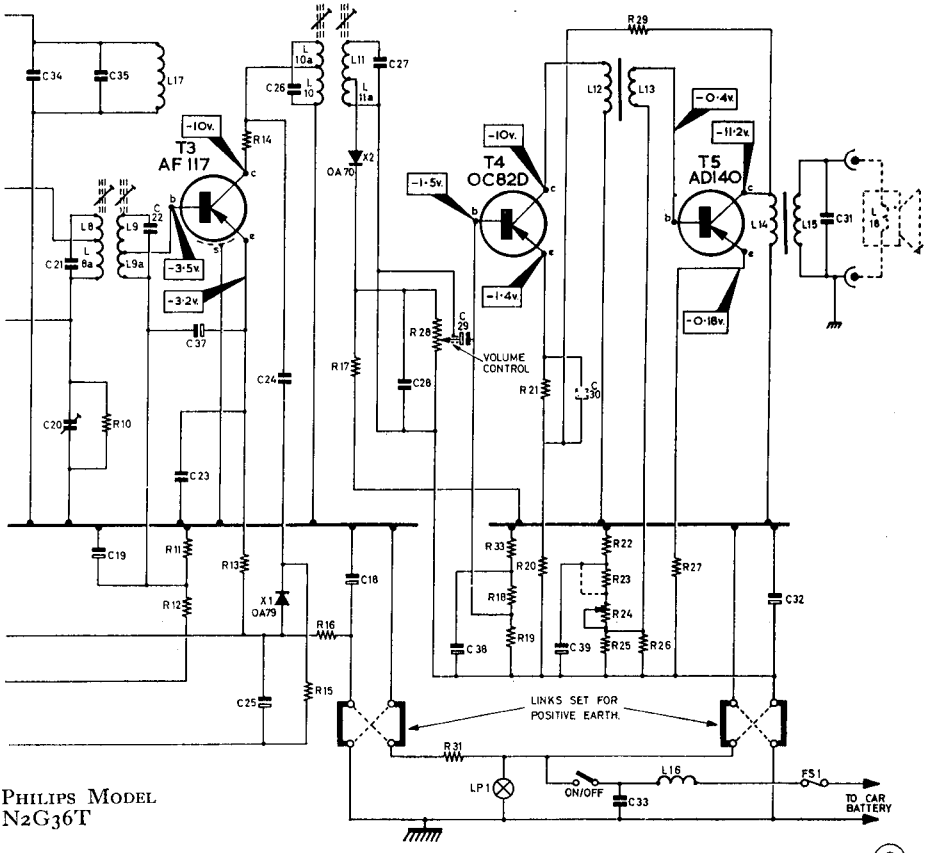
Capacitors.

C1	80 pF. (max.)	C16	6,200 pF.	C31	0·22	R6	56k
C3	82,000 pF.	C17	160	C32	1,000	R7	6·8k
C4	2,200 pF.	C18	100	C33	0·22	R8	180
C5	10,000 pF.	C19	3·2	C34	15 pF.	R9	1·2k
C6	3,300 pF.	C20	80 pF. (max.)	C35	50 pF.	R10	2·7k
C7	82,000 pF.	C21	91 pF.	C36	1,500 pF.	R11	33k
C8	500 pF.	C22	91 pF.	C37	3·2	R12	4·7k
C9	2,700 pF.	C23	82,000 pF.	C38	3·2	R13	390
C10	22,000 pF.	C24	120 pF.	C39	25	R14	180
C11	2,200 pF.	C25	10			R15	5·6k
C12	150 pF.	C26	91 pF.	*Resistors.*		R16	330
C13	80 pF.	C27	91 pF.	R1	0·33M	R17	0·15M
C14	15,000 pF.	C28	10,000 pF.	R2	0·1M	R18	27k
C15	315 pF.	C29	3·2	R3	4·7k	R19	5·6k
		C30	125	R4	560	R20	2·2
				R5	6·8k	R21	470

R22	120 (W.W.)		
R23	120		
R24	120 (pre-set)		
R25	12		
R26	130 (Varite)		
R27	0·51 (W.W.)		
R28	5k		
R29	2·2k		
R30	Voltage dependent resistor		
R31	270		
R32	18k		
R33	10k		
R34	47		
R35	47		

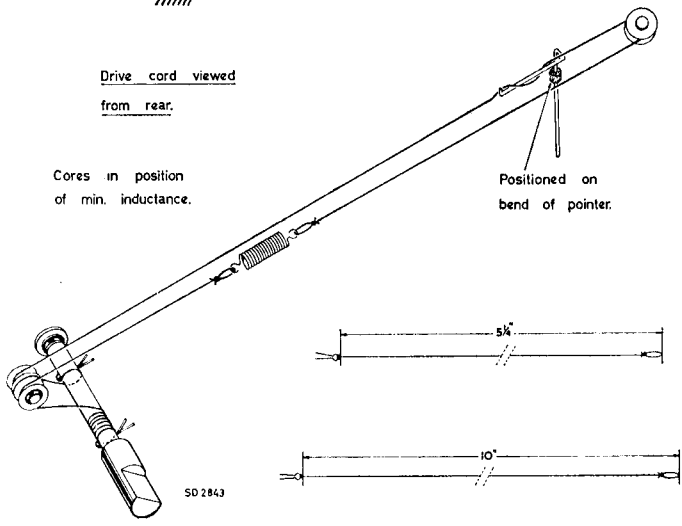


CIRCUIT DIAGRAM—PHILIPS MODEL N3G25T



PHILIPS MODEL
N2G36T

R6 56k
R7 6·8k
R8 180
R9 1·2k
R10 2·7k
R11 33k
R12 4·7k
R13 390
R14 180
R15 5·6k
R16 330
R17 0·15M
R18 27k
R19 5·6k
R20 2·2
R21 470
R22 120 (W. W.)
R23 120
R24 120 (Pre-set)
R25 12
R26 130 (Varite)
R27 0·51 (W. W.)
R28 5k (log.)
R29 2·2k
R30 V.D.R. (E299DD/P220)
R31 270
R32 18k
R33 10k



dependent resistor used to protect T1 from static charges is type E299DD/P220. To adjust R24, insert 0–1-amp meter between L14 and collector of T5, then adjust R24 for reading of 480 mA. ±12 mA. with supply voltage of 14·5 volts and no signal input. Range of adjustment may be increased by short-circuiting or bringing into circuit R23, as appropriate.

Alignment: I.F. 480 kc/s. (L11, L10, L9, L8); M.W. 508 kc/s. (C20); 1560 kc/s. (C13, C1); L.W. 148 kc/s. (C35); 240 kc/s. (L5, L4).