

PHILIPS

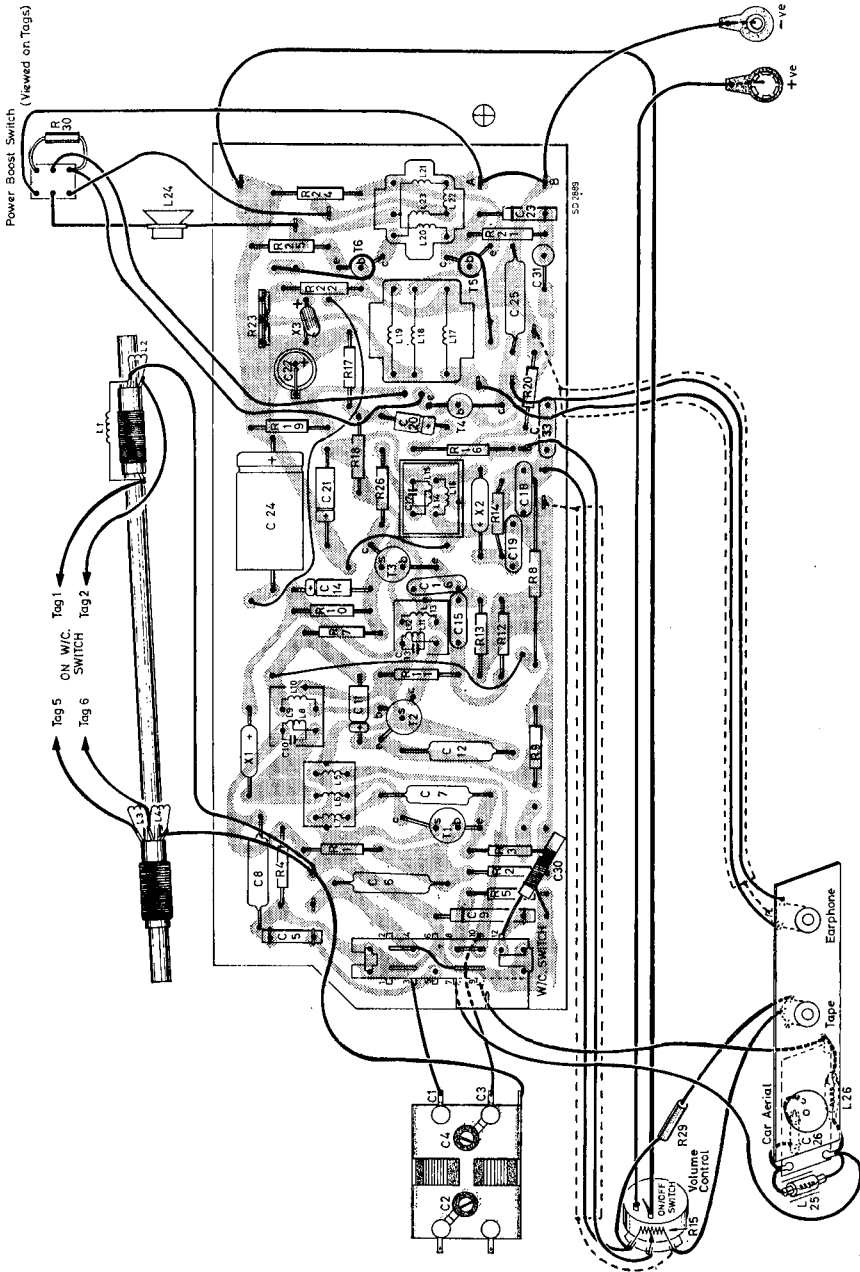
Model L3G45T

General Description: Six-transistor plus three-diode M.W./L.W. portable receiver. Sockets are provided for the connection of a car radio aerial, earphone and tape recorder. A "Power Boost" switch enables a choice of high or low output from the receiver, with increased battery life in the "Min" position. 9-volt battery (PP9 or equivalent). Quiescent current 15 mA.

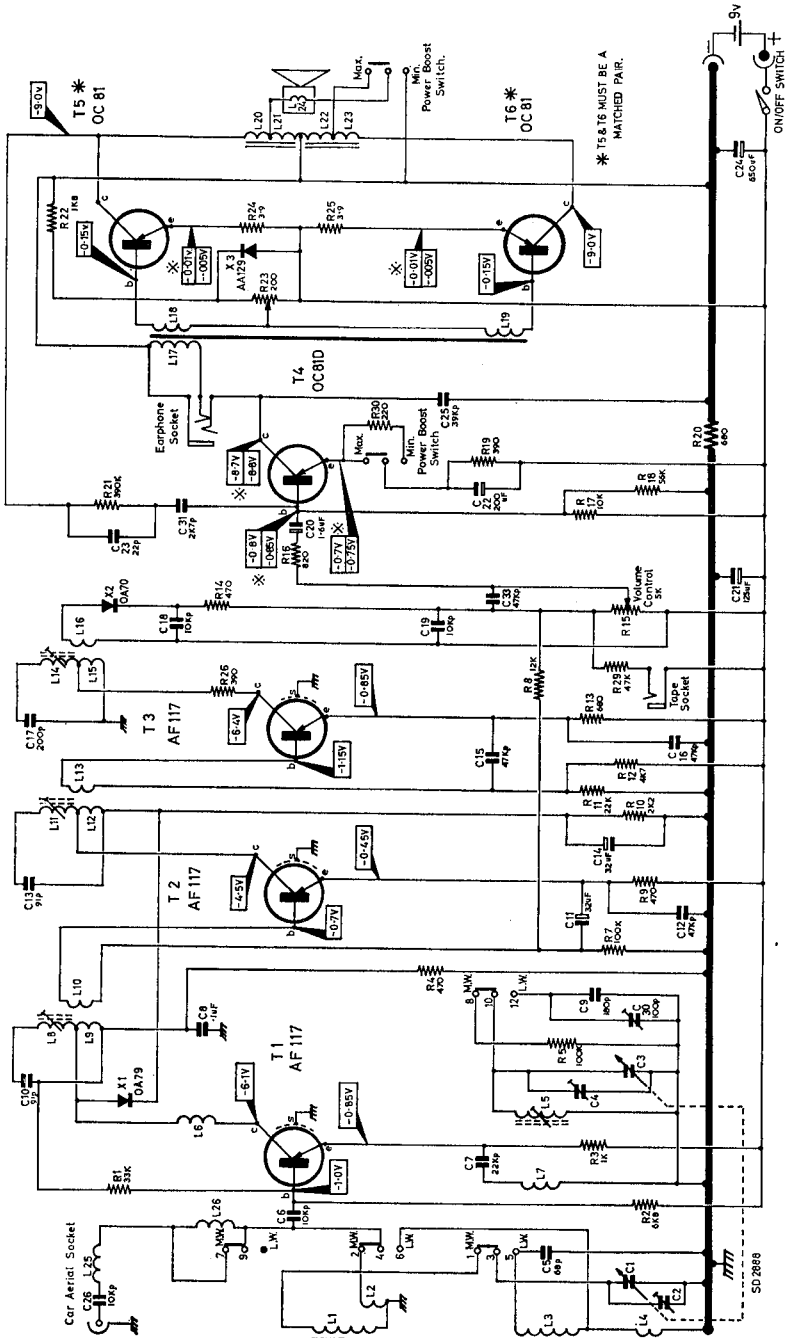
Semi-conductors: (T₁, T₂, T₃) AF117; (T₄) OC81D; (T₅, T₆) OC81; (X₁) OA70; (X₂) OA79; (X₃) AA129.

Dismantling: Removing the Cabinet: Place the receiver face down on a soft cloth, release the two captive retaining screws in the back, then lift off the backplate. The plastic cabinet centre is now held only by the four corner screws. To detach the chassis from the front moulding, pull off the tuning knob, and remove the two larger screws securing the socket plate assembly, also the two chassis securing screws, one of which is situated near the wavechange knob and the other near the power boost switch. Unsolder the loudspeaker leads. The printed panel may be released from the chassis by detaching the two fixing screws and withdrawing the panel from the slots in the rod aerial rubber mounting brackets.

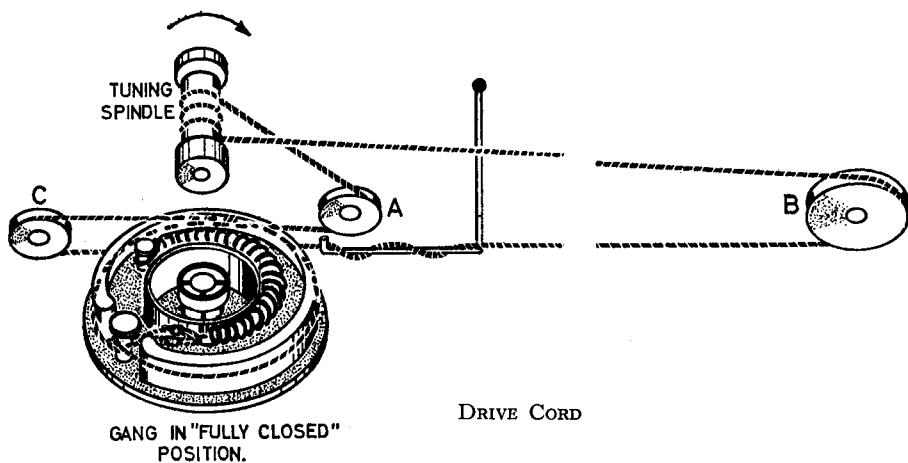
Switch to	Set gang to	Injection point	Sig. gen. freq.	Adjust
<i>I.F. Alignment</i>				
M.W.	Minimum	Aerial side of C6 via a 470k pF. capacitor	470 kc/s.	L14-max. output Refit screening can
M.W.	Minimum	Aerial side of C6 via a 470k pF. capacitor	468 kc/s.	L11-max. output Refit screening can
M.W.	Minimum	Aerial side of C6 via a 470k pF. capacitor	472 kc/s.	L8-max. output Refit screening can
<i>M.W. Alignment</i>				
M.W.	Maximum	Aerial side of C6 via a 470k pF. capacitor	550 kc/s.	L5-max. output Refit screening can
M.W.	Line up pointer to L.H. scale marker	Aerial side of C6 via a 470k pF. capacitor	1610 kc/s.	C4-max. output Refit screening can
M.W.	600 kc/s.	Via coupling loop	600 kc/s.	L1-max. output Refit screening can
M.W.	1300 kc/s.	Via coupling loop	1300 kc/s.	C2-max. output Refit screening can
<i>L.W. Alignment</i>				
L.W.	Maximum	Aerial side of C6 via a 470k pF. capacitor	145 kc/s.	C39-max. output Refit screening can
L.W.	185 kc/s.	Via coupling loop	185 kc/s.	L3-max. output Refit screening can



RADIO SERVICING



CIRCUIT DIAGRAM—PHILIPS MODEL L3G45T



Electrical Adjustments: *Adjustment of R_{23} :* Should output transistors or associated components require replacement, the collector current must be adjusted by means of R_{23} in the following way. Insert a D.C. milliammeter between points A and B on the printed panel. A link which is situated on the component side of the panel near the output transformer must be disconnected for this adjustment. It is important that a temperature check be taken near the printed panel, and that R_{23} is adjusted to give a meter reading according to the table given below.

<i>Temperature</i>	<i>Collector current setting</i>
18°C (64.4°F)	4.5 mA.
24°C (75°F)	5.3 mA.
30°C (86°F)	6.0 mA.