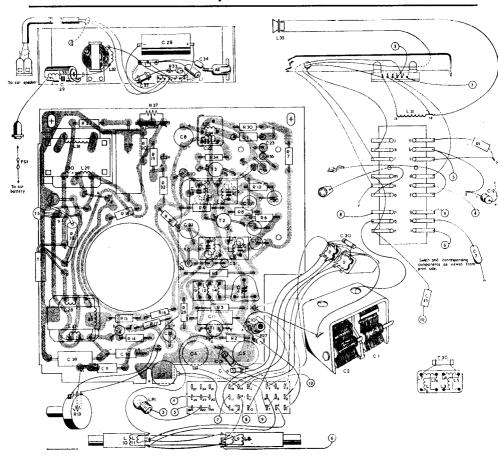
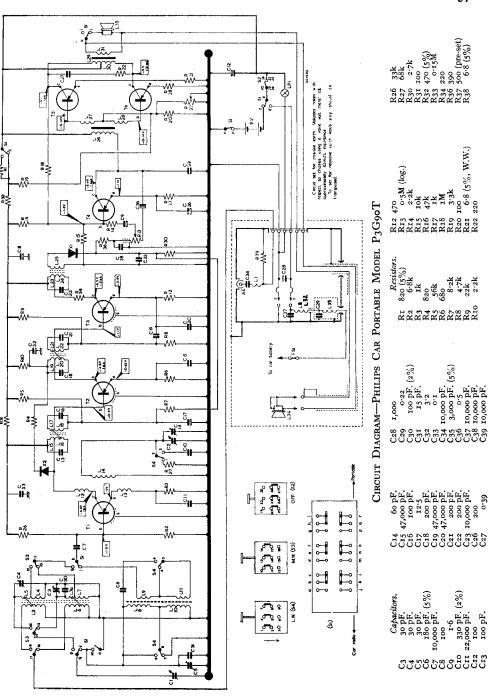
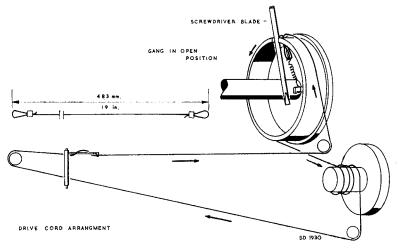
## **PHILIPS**

## **CAR/PORTABLE Model P3G90T**







CORD DRIVE—PHILIPS MODEL P3G90T

General Description: Six-transistor (plus two diodes), two-waveband receiver intended for use as a car-radio or as a self-contained portable receiver. A mounting tray automatically connects the receiver to the car aerial, speaker and battery supply. The receiver and mounting kit (type NP1616) are marketed separately or together. Also known as Model 390T.

**Power Supply:** 9-volt battery (PP7 or equivalent), no-signal consumption 10 mA. 12-volt car battery (positive earth systems), no-signal consumption 150 mA. The unit can be adapted for negative earth operation by reversing connections to tags 3 and 4 of tag strip in mounting tray.

Wavebands: M.W. 185-579 m.; L.W. 1215-2000 m.

**Transistors:** (T1) AF116; (T2, 3) AF117; (T4) OC82D; (T5, 6) OC82 (matched). Diodes: (X1) OA70; (2) OA79 (auxiliary A.G.C. damping diode).

Notes: Pilot lamp, 12-volt, 1.5-watt (Philips PP4767). If either or both output transistors are replaced, no-signal combined collector current should be checked. Connect milliammeter in place of shorting link A and turn volume to minimum. Depress M.W. button and adjust R37 for reading of 3.3 mA. under portable conditions.

**Dismantling:** Remove set from mounting tray and place it speaker grille downwards. Release battery compartment cover. Rear half of case is removed by releasing two screws situated half way along case. Access to change-over switch (SI) and printed side of panel is obtained by removing chassis, held by spring clip in each corner, from speaker half of case, as follows. Hinge handle forward to portable position. Release two spring clips on tuning-gang side, and at same time, ease chassis from case. Lift chassis clear of case, detaching speaker leads if required. Reassemble by

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pressing chassis back into four clips, making sure that they slide up outside of chassis. Replace scale by locating bottom tongued edge in case groove and tilt backwards.

Alignment Frequencies: I.F. 470 kc/s. (L23, L21, L19, L17, L15). M.W. 518 kc/s. (L14); 1620 kc/s. (C14); 518 kc/s. (L8/9); 1620 kc/s. (C5). L.W. 190 kc/s. (L10/L11). Car radio aerial circuits (signal via 60 pF. shunt capacitor) M.W. 518 kc/s. (L4); 1620 kc/s. (C4). L.W. 150 kc/s. (L7); 250 kc/s. (C3).