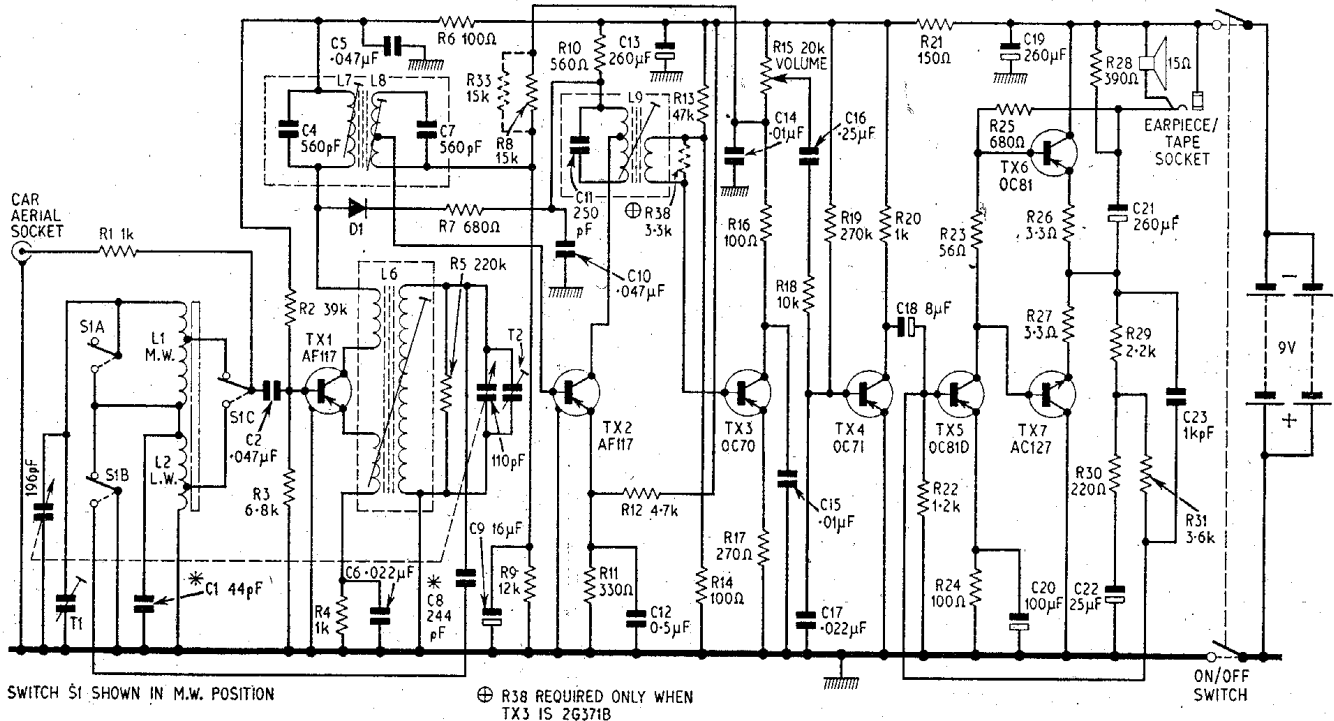


# REGENTONE

# Models BT20, BT21

**General Description:** The information given covers Models BT20, BT21, BT21/1 and BT21/2. These models are electrically similar with the exception of differences in the aerial input circuit, see below. Seven-transistor (plus A.G.C. diode), M.W./L.W. portable receiver using two 9-volt



\* FOR BT21/1 CHANGES AS BELOW

C1	120pF	5%	125V
C8	310pF	2½%	125V

CIRCUIT DIAGRAM—REGENTONE MODEL BT20

batteries (PP7, VT7, DT7). Quiescent consumption 16 mA. Average consumption with loudspeaker 25 mA.

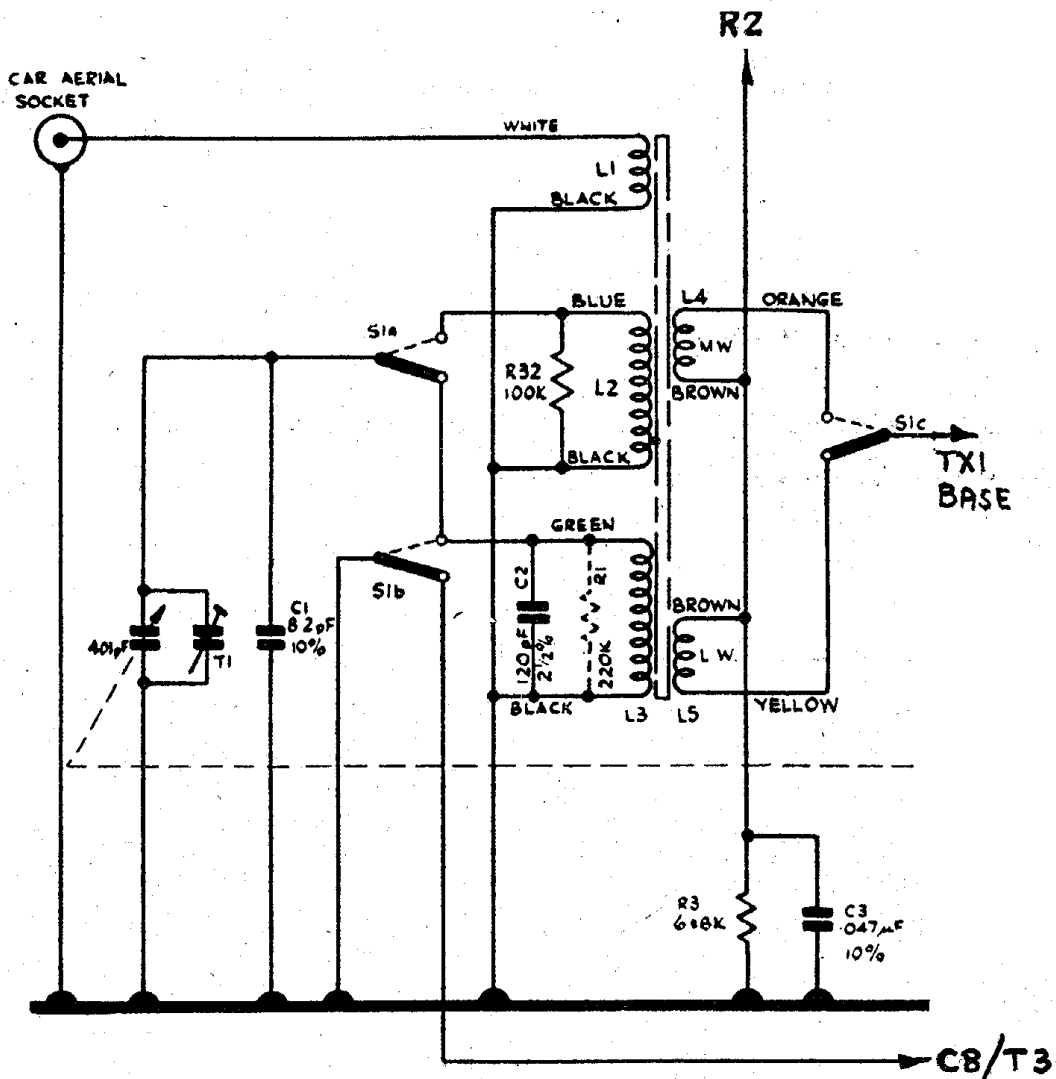
	TX1 AF117	TX2 AF117	TX3 OC70	TX4 OC71	TX5 OC81D	TX6 OC81	TX7 AC127 (n-p-n)
Emitter	1.1	0.9	0.1	0	0.6	4.7	0
Base	1.2	1.15	0.1	0.15	0.8	4.8	4.5
Collector	8.0	7.6	2.5	2.6	4.5	9.0	4.6

(D1) OA79 (A.G.C. damping diode).

**Dismantling:** Remove cabinet back by means of coin-slotted heads. Remove batteries and unsolder both leads to car aerial socket. Unscrew both hexagonal pillars, one on each side of chassis and unsolder both speaker leads. Remove complete chassis.

**Alignment:** I.F. 470 kc/s. (L9, L8, L7; if L7/L8 overcoupled, damp L8 with 33k resistor). M.W. 540 kc/s. (Osc. core); 1600 kc/s. (Osc. trimmer); 600 kc/s. (M.W. aerial coil); 1430 kc/s. (aerial trimmer). L.W. 225 kc/s. (L.W. osc. trimmer, T3, L.W. aerial coil).

**Circuit Variations:** Model BT21 has additional windings on aerial rod, see separate diagram. Model BT21/1 has no L.W. oscillator trimmer and uses fixed capacitor 310 pF. in its place; this is also case with Models BT20 and BT21/2.



AERIAL INPUT  
CIRCUIT—  
REGENTONE  
MODEL BT21