FERGUSON Model 433

General Description: Seven-transistor (plus two crystal diodes), two-waveband, table receiver, with car aerial socket. Output 600 mW.

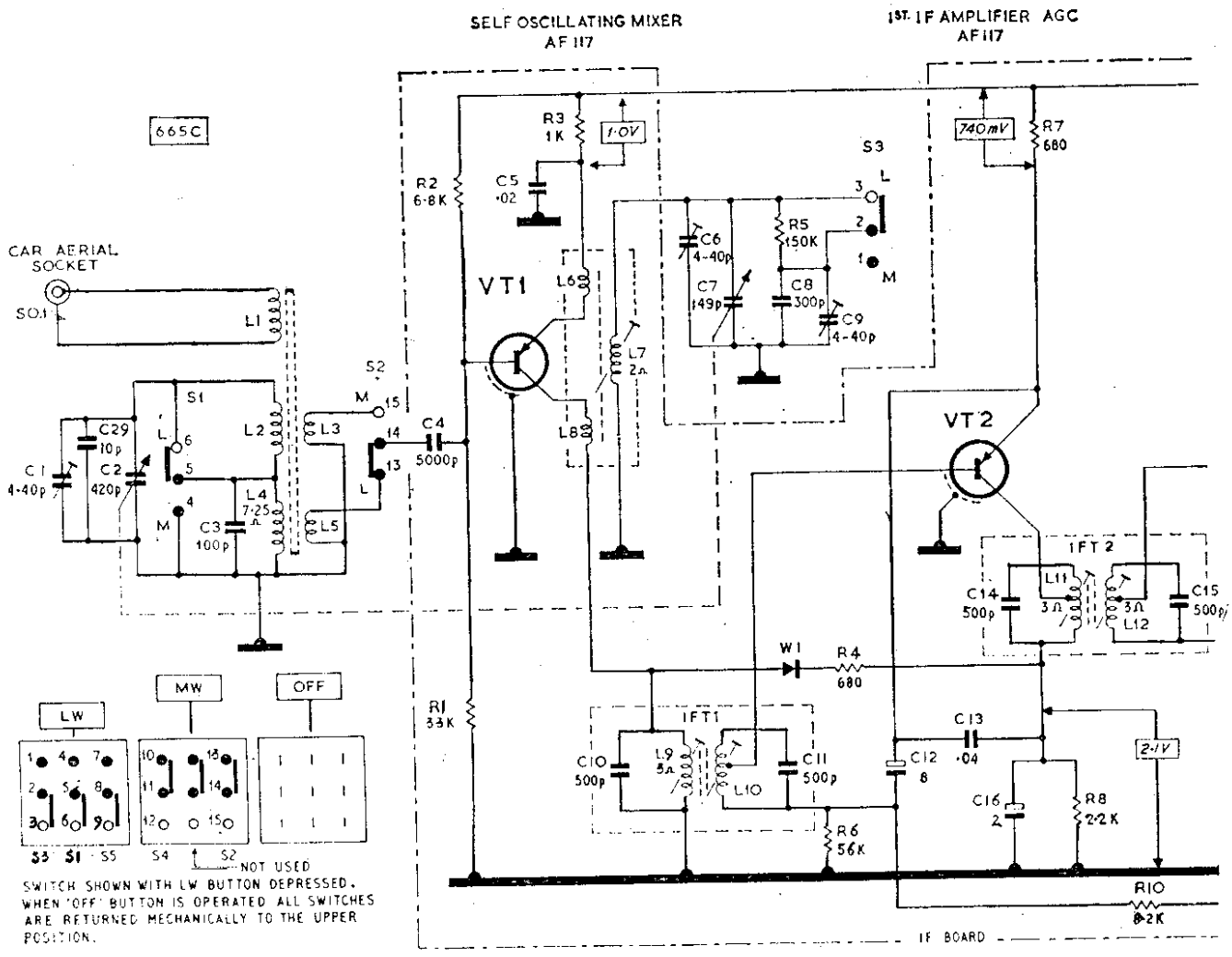
Power Supply: 9-volt battery (PP9, DT9, BB29, T6009). Consumption about 20 mA. for average output.

Wavebands: M.W. 183–556 m.; L.W. 1136–2040 m.

Transistors: (VT1) AF117 or OC170; (VT2) AF117 or OC170; (VT3) AF117 or OC170; (VT4) OC71; (VT5) OC81D; (VT6, 7) matched OC81.

Alignment Frequencies: I.F. 475 kc/s. (L13/14, L12, L11, L10, L9). M.W. 1400 kc/s. (C6, C1); 600 kc/s. (L7, L2). L.W. 220 kc/s. (C9, L4).

Dismantling: Remove two large brass screws from underside of cabinet. Cabinet back may now be withdrawn by pulling it out at bottom and easing it downwards out of groove at top of cabinet. Carefully pull off tag connectors from printed boards (note colours of leads and respective tag numbers). Withdraw both printed boards. Ferrite-rod and tuning assembly is secured by four 4BA nuts and washers: remove them and ease plate over screws, drawing it downwards to release controls and push-buttons from control escutcheon. To remove unit completely, pull off



CIRCUIT DIAGRAM—

speaker tag connections and unsolder leads to tape and aerial sockets. To remove tuning scale and control escutcheon, unscrew three PK screws and lift out. To remove cabinet front, take out two small brass screws from underside of cabinet and countersunk screw through each wood block which supports tuning assembly, then push out.

Notes: VT6, 7 coated with silicone grease to improve heat transfer. On earlier models L3 is shunted by 470 pF. capacitor mounted on rod aerial. C8, C29 2 per cent. C10, C11, C14, C15, C20, 2½ per cent. C3, R15, R17, R18, R19, R21, R24 5 per cent. W1 OA79; W2 OA90.