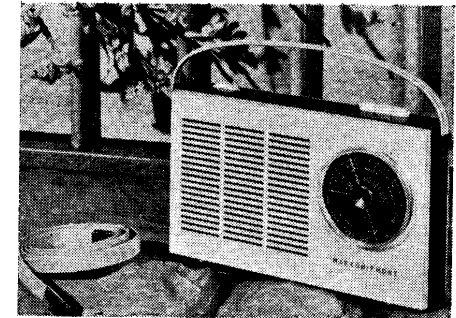


1398

'ERT' SERVICE CHART

**MARCONIPHONE
4102, 4104**



4102

SIX transistor plus one diode portable covering MW and LW with car aerial socket.

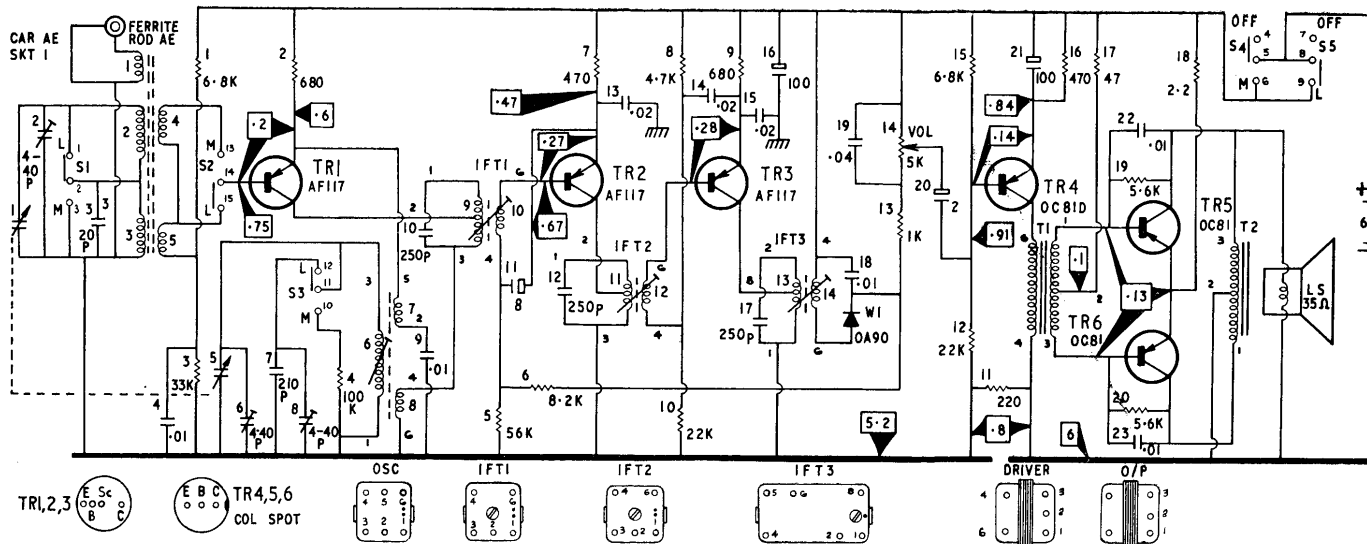
Batteries. Four Ever Ready U11 or equivalents.

Consumption. 30mA average. 10mA quiescent.

Wavebands. 185-565m, 1120-2025m.

Transistors. AF117 mixer, AF117 first IF, AF117 second IF, OC81D driver, OC81 (2) output.

CONTINUED OVERLEAF



Model 4102. Voltages measured from positive except where indicated otherwise. Coil and transformer tags viewed from copper side of board

4104 MINSTREL

SIX transistor plus one diode pocket portable, MW plus LW Light.

Battery. Ever Ready PP3 or equivalents.

Consumption. 15mA average. 9mA quiescent.

Wavebands. 185-565m, preset 1500m.

Transistors. AF127 mixer, AF127 first IF, AF127 second IF, OC81DM driver, OC81M (2) output.

Diode. OA70 detector and AGC.

IF. 475kc/s.

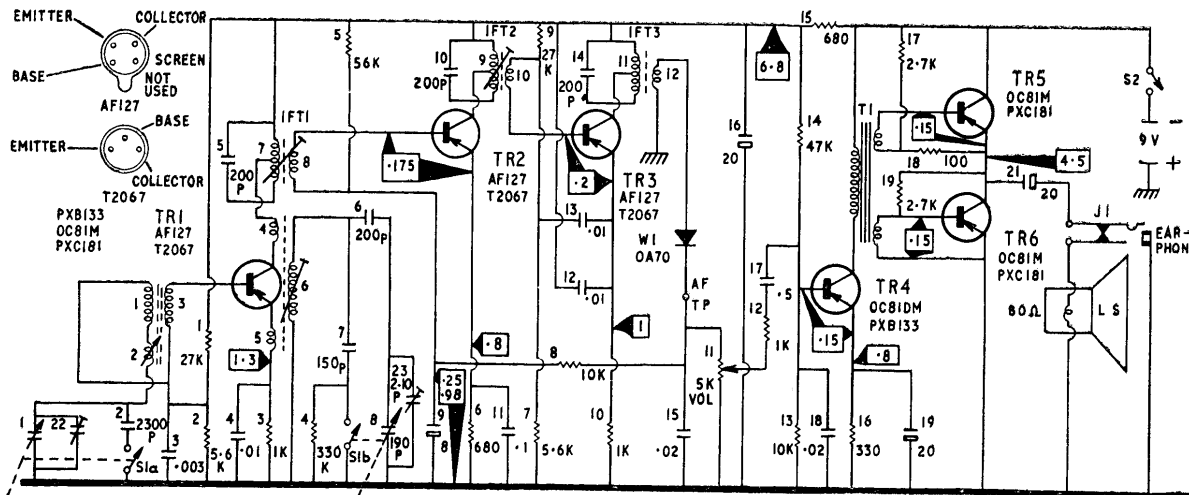
Output. 100mW at 10 per cent distortion.

Speaker. 2in. circular 80ohms.

Aerial. 2½in. ferrite slab.

Dismantling. Place receiver face down, press in tab at base and remove back cover. Remove battery. Remove screw and flex clip on speaker magnet and screw on printed board adjacent to slab aerial. Partially remove assembly and unsolder leads on speaker, printed board can then be lifted out complete.

CONTINUED OVERLEAF



Model 4104. Voltage readings taken with 20,000 ohm/volt meter from positive except where indicated otherwise



4102 (continued)

Diode. OA90 detector and AGC.

IF. 475kc/s.

Output. 400mW at 10 per cent distortion.

Speaker. 3½ in. circular 35ohms impedance.

Aerial. 7in. ferrite rod.

Manufacturer. British Radio Corporation.

Service department. British Radio Corporation, Eley's Estate, Angel Road, Edmonton, London N18. Tel.: Edmonton 3060.

Dismantling. Unscrew single captive screw, remove back and battery tube noting polarity. Pull off tuning knob, lay set face down and remove three screws along edges of printed board and one screw securing gang mounting bracket to cabinet. Tilt assembly and remove from cabinet. Battery contacts can be withdrawn and aerial socket leads unsoldered for greater movement.

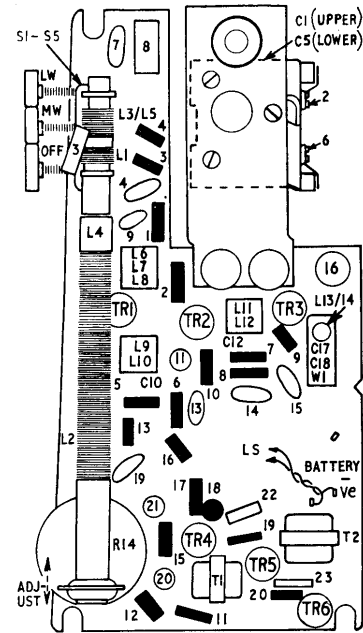
Alignment. Switch receiver to MW, gang condenser to minimum capacity and apply 475kc/s signal via 0.1mF capacitor to fixed plates of C1. Adjust IFT3, IFT2 and IFT1 for maximum output repeating until no further improvement.

RF. Inject signals via loop loosely coupled to the ferrite rod. MW must be aligned first. Set gang to maximum, generator to 530kc/s and adjust L6 for greatest output.

Tune generator to 1620kc/s, set tuning condenser to minimum and adjust C6 on gang for maximum output. Repeat previous operations until no further improvement.

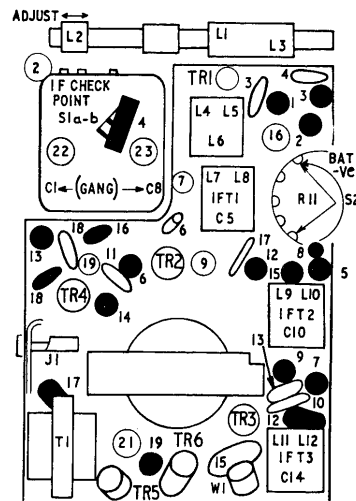
Adjust generator to 600kc/s and tune this in on receiver. Adjust aerial coil L2 for maximum output by sliding along ferrite rod.

Inject 1500kc/s signal and tune this on



receiver. Adjust C2 on gang for maximum output. Repeat last two operations.

Switch receiver to LW and with generator adjusted to 188kc/s move gang condenser until it is 90 degrees from the fully closed position. Adjust C9 on printed board and L3 on ferrite rod by sliding along for maximum output.



4104 (continued)

Alignment. IF. Tune gang to minimum capacity and apply 475kc/s signal to fixed plates of C1. Adjust IFT3, IFT2 and IFT1 for maximum output.

RF. Loosely couple generator by means of a loop near the aerial. Set gang to minimum, signal generator to 1620kc/s and adjust C23 for maximum.

Set gang to 500m calibration mark, generator to 600kc/s and adjust L6 for maximum.

Use 200kc/s signal or the LW Light programme and check that receiver tunes through this on the 15 mark on the dial. If not, slight re-adjustment of L6 will be required. C23 on 1620kc/s should be rechecked if L6 disturbed.

Signal generator to 600kc/s, tune in signal on set and slide L2 on ferrite slab for maximum.

Set generator to 1500kc/s tune in on set and adjust C22 for maximum.