

FOUR-VALVE, plus metal rectifiers, AC/DC/battery portable receiver. Released August, 1952, at £13 13s. 6d., excluding PT.

Mains. 200-250V DC or 200-250V AC 25-100c/s.

Batteries. HT, 90V Drymax 526 or Siemac S126. LT 7.5V Ever Ready Alldry No. 38, Drydex H1187 or Siemens 1535.

Consumption. Mains, 20W. Battery, LT 55mA, HT 8mA quiescent.

Wavebands. LW: 1,000-2,000 metres; MW: 187-540 metres.

Valves. Mazda 1C2, 1F3, 1FD9, 1P11.

Rectifiers. MR1, MR2—STC M1.

Fuse. 250mA plain cartridge.

Speaker. 5in. PM, 3 ohms impedance.

Manufacturer. Murphy Radio, Ltd., Welwyn Garden City, Herts.

MODIFICATIONS

Early sets have C7 C18 towards side of cabinet and C7 cannot be trimmed with chassis in cabinet.

Some sets have C43 0.01mF between one side of output transformer and chassis. C44, in later sets, is directly across MR1, a position that may reduce modulation hum.

V4 may be either Mazda 1P11 or Mullard DL94.

A plain 4BA washer under each screw head prevents the heat dissipation grille from fracturing when screws are tightened.

CHASSIS REMOVAL

Chassis can be removed from cabinet complete with speaker, scale and knobs, and operated, provided the safety socket on the mains tapping panel is short circuited.

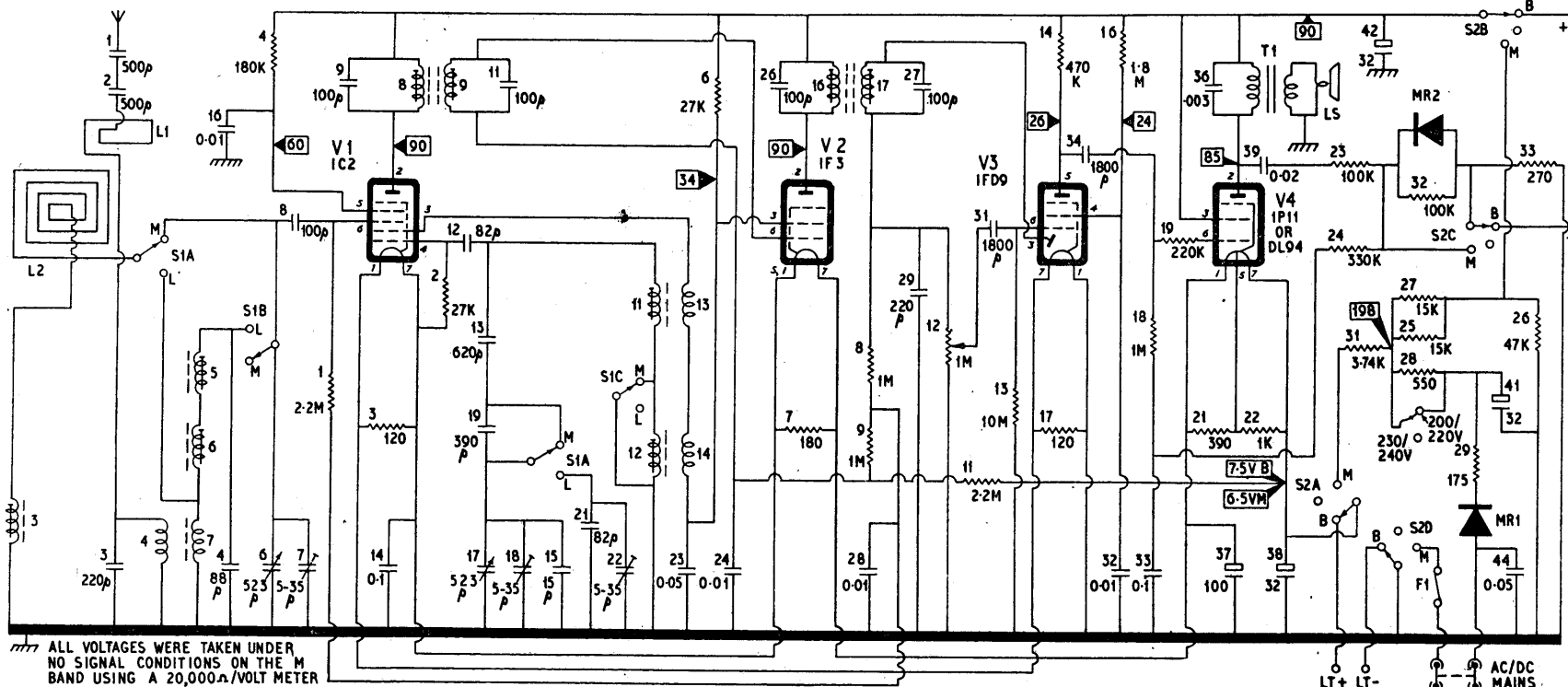
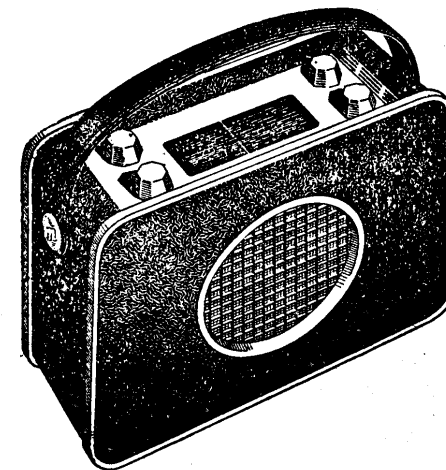
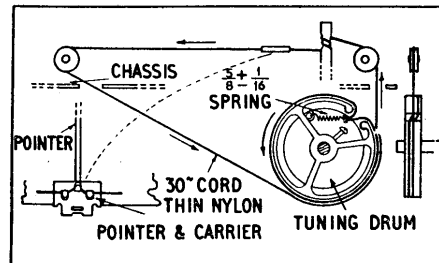
Release bottom by quarter turn, anti-clockwise of screw and free by sliding to left. Remove two screws, near mains and aerial panels respectively, and lift out chassis assembly.

For access to parts, remove top panel and reflector; take out four corner screws holding heat dissipation grilles and loosen control

knob screws. Lift panel, with knobs and scale, away. This reveals reflector which can be released after setting pointer near centre and removing a screw each end.

Scale is held by top panel, four rubber channels and metal lugs.

When replacing scale, before pressing back the lugs, replace top panel and, with left-hand side of pointer against 12 on arbitrary



COMPONENT RATINGS

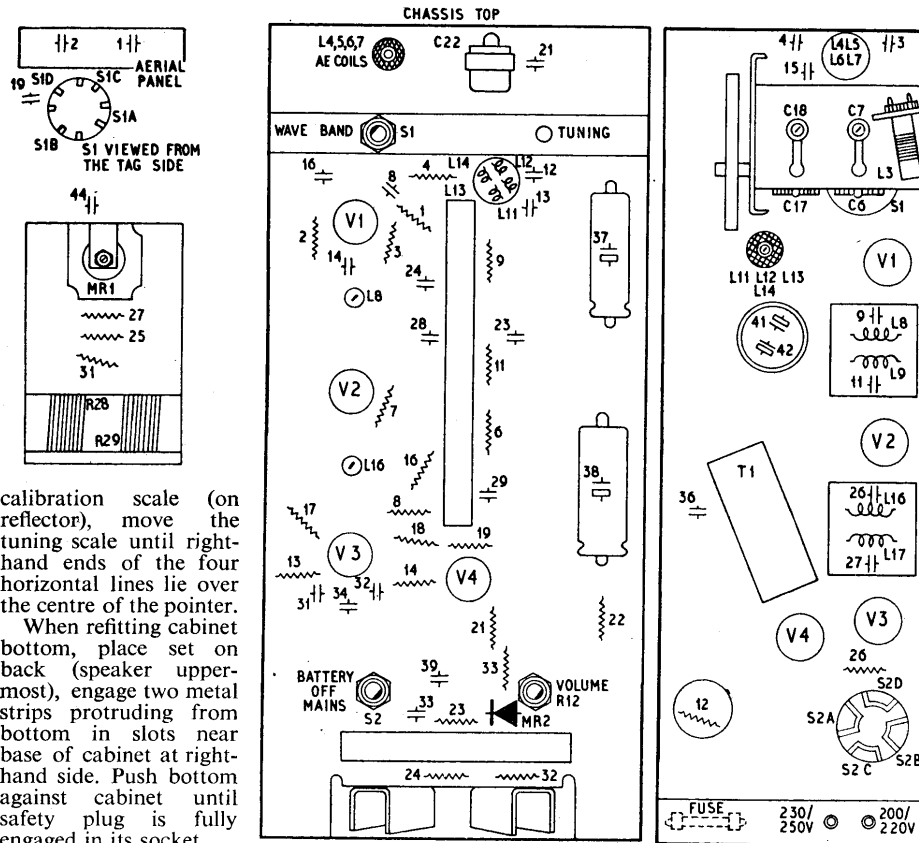
Resistors
 R22, 25 and 27: 1.5W.
 R26: .75W.
 R28, 29: WW 5 per cent. mains resistor.
 R31: 10W WW 5 per cent.
 Other resistors: .6W, mostly 10 per cent.

Capacitors
 C44: 750V working.
 C3, 8, 12, 31, 34: 500V working.
 C1, 2: 300V working AC.
 C24, 28, 38, 39: 150V working.
 C42: 275V working.
 C37: 25V working.
 Other capacitors: 350V DC.

Inductors

L	Ohms
2	1.5
3	2.5
4	80
5-6	30
7	2
8, 9	14.5
11	4.5
12	8.5
13-14	1.5
16, 17	14.5
T1 (pri.)	670

ALL VOLTAGES WERE TAKEN UNDER NO SIGNAL CONDITIONS ON THE M BAND USING A 20,000Ω/VOLT METER



calibration scale (on reflector), move the tuning scale until right-hand ends of the four horizontal lines lie over the centre of the pointer.

When refitting cabinet bottom, place set on back (speaker uppermost), engage two metal strips protruding from bottom in slots near base of cabinet at right-hand side. Push bottom against cabinet until safety plug is fully engaged in its socket.

BATTERY REPLACEMENT

HT battery is fixed under left-hand pair of rubber bands on cabinet bottom, with sockets to the left; and LT battery under right-hand bands with sockets to the front.

ALIGNMENT

Chassis must be removed as described above and top panel taken off. Reflector must be removed, for IF alignment, and disengaged from pointer carrier.

Replace reflector, pointer and carrier, for RF alignment, and check that, with gang fully meshed, left-hand side of pointer lines up with 12 on calibration scale.

All adjustments are made with chassis out of cabinet except for C7, MW, aerial trimmer, which is adjusted with chassis in cabinet. With early models it is necessary to trim C7 with chassis arranged so that frame aerial is spaced about 1/4 in. from cabinet.

With VC at maximum, make all adjustments

to give maximum audio output, but not more than 0.4V AC across speech coil. Use non-metallic trimming tool

Inject 470kc/s via 0.1mF to grid side of aerial gang capacitor. Set to calibration 12, unscrew secondary core IFT2 (under chassis) to fullest extent. Adjust L16 (pri. top) and L17 (sec. below) for maximum. Do not readjust L16.

Unscrew secondary core IFT2. Adjust L8 (pri. top) and L9 (sec. below). Do not readjust L8.

Inject to aerial socket via dummy aerial. Tune to 10.1 calibration (500m.), inject 600kc/s and adjust L11 and L3.

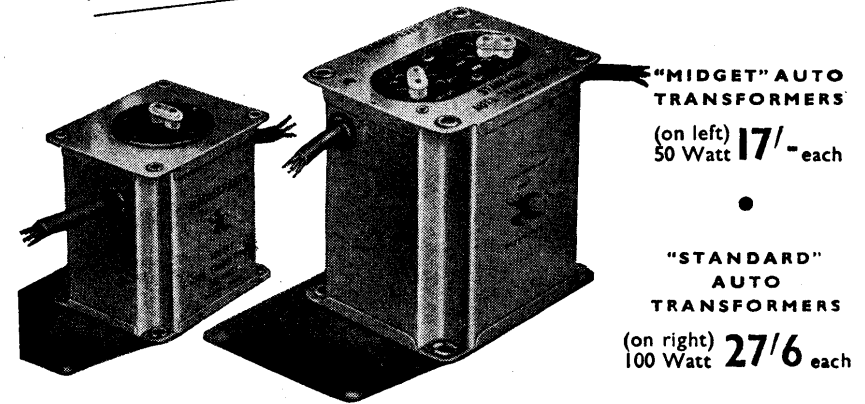
Tune to 2.4 (200m), inject 1,500kc/s, and adjust C18 and C7. Repeat these MW adjustments for optimum gain and calibration.

Tune to 10.1 (1,900m), inject 157.9kc/s (1,900m) and adjust L12, L6.

Tune to 2.35 (1,000m), inject 300kc/s and adjust C22. Repeat LW adjustments.

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