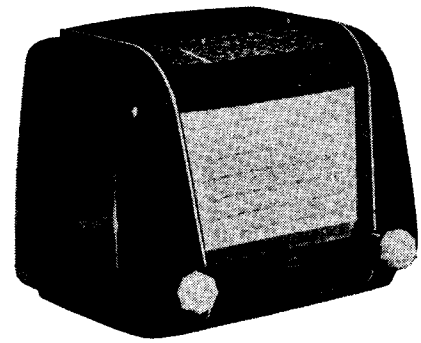
SERVICE DATA **MAS1001 MAS1001A**

MULLARD MASTER RADIO

MODELS MAS1001, MAS1001A



SPECIFICATIONS

(Subject to alteration without notice)

Power Supply	220-260V, 40-50c/s.
Tuning Range	530-1620Kc/s.
Intermediate Frequency	455Kc/s.
Cabinet	Bakelite mantel in several colours.

VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts	Bias Volts	Bias Resistor
Frequency Converter	V1	6AN7	200	73	88	–1.75	R7
I.F. Amplifier, A.V.C. and Demodulator	V2	6N8	135	65	—	–1.75	R7
Power Amplifier	V3	6M5	185	200	—	–6.2	R6 & 7
Rectifier	V4	6X5GT	245v A.C. per plate				
Dial Lamp	V11	6.3V 0.32A tubular screw					
	V4 cathode — L13 C.T. — 266 volts						

NOTE: These voltages are measured with a "1,000 ohms per volt" meter and may vary ± 10% from the figures quoted.

They are measured between the socket points quoted and chassis or across the resistors listed. The receiver should be in a "no signal" condition.

TO REMOVE CHASSIS FROM CABINET.

Remove plug from power supply socket. Remove the two control knobs—a firm pull is all that is required. Remove the combined back and bottom cover. The chassis is held to the cabinet by four screws, two at the top of the metal speaker plate and two at the bottom. After these screws have been removed, the chassis may be withdrawn from the cabinet. When withdrawing the chassis, spring the dial back plate back slightly by pressure exerted in the region of the lampholder bracket, to enable it to clear the top edge of the dial scale.

The chassis may be refitted to the cabinet by a reversal of the above procedure.

MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with two primary winding tappings, 220-240 volts and 250-260 volts, by means of which the receiver may be adjusted to the mains voltage at the point of installation. The receiver is adjusted to the 220-240 volts tapping before despatch from the factory.

ALIGNMENT.

The iron cores for the secondaries of the I.F. transformers are in the top of the cans; those for the primaries are in the bottom.

Broadcast band alignment frequencies are 1420 Kc/s and 600 Kc/s. Capacitive trimmer adjustments are used at 1420 Kc/s; the iron core of the oscillator coil is used for padding at 600 Kc/s. **Do not attempt to adjust the aerial coil iron core.** Before commencing alignment, set the dial cursor with the tuning gang fully closed, at the stop mark on the top edge of the dial back plate.

DIAL CALIBRATION.

If station calibrations are incorrect by an equal amount over the dial scale, the condition can be corrected by moving the dial cursor assembly on the dial drive cord.

BOTTOM COVER.

As the cabinet bottom cover is replaced ascertain that the earthing lug is in position.