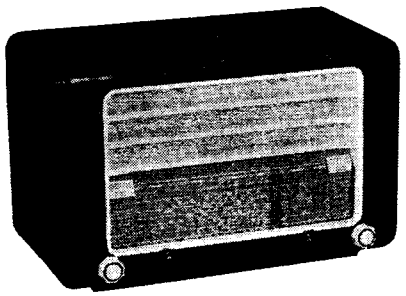
SERVICE DATA **MAS1113X**

MULLARD MASTER RADIO

MODEL MAS1113X



SPECIFICATIONS

(Subject to alteration without notice)

Power Supply	220-260V, 40-60c/s.
Tuning Ranges	530-1620kc/s. 5.9-18.4Mc/s.
Intermediate Frequency	455kc/s.
Cabinet	Bakelite table.

VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts
Frequency Converter	V1	6AN7	225	30	80
I.F. Amplifier, A.V.C. and Demodulator	V2	6N8	225	72	—
Audio Amplifier	V3	6N8	50	—	—
Power Amplifier	V4	6M5	210	225	—
Rectifier	V5	EZ82	Cathode — L17 C.T., 261V		
Dial Lamps	V11 & V12	6.3V 0.32A tubular screw			
Voltage across R23, −2.0V; across R23 and R24, −6.4V					

NOTE: These voltages are measured with an "1,000 ohms per volt" meter and may vary ± 10% from the figures quoted. They are measured from the socket points indicated to chassis or across the resistors listed. The receiver should be in a "no signal" condition.

TO REMOVE CHASSIS FROM CABINET.

Remove the power plug from the supply outlet socket. Remove the four control knobs (a firm pull is all that is necessary) and the cabinet back. The chassis is held to the cabinet by three screws in the baffle—two along the top and one on the right-hand side—and four screws through the bottom of the cabinet. Removal of these seven screws enables the chassis to be withdrawn from the cabinet.

The chassis may be replaced by a reversal of the above procedure.

DIAL CALIBRATION.

If it is required to correct dial calibration for an equal error on all stations, provision is made for moving the cursor assembly with respect to the dial cord. Loosen the clamping screw, make the necessary adjustment to the cursor position and securely retighten the clamping screw.

MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with two mains voltage tappings—220/240 volts and 250/260 volts—for adjustment to the supply voltage at the point of installation. This receiver is adjusted at the factory to the 220/240 volts tapping.

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 1,420 kc/s (oscillator and aerial trimmers) and 600 kc/s (slug padding); short wave band alignment frequencies are 18.4 Mc/s (tuning gang fully open, oscillator trimmer) and 17.8 Mc/s (aerial trimmer).

Do not attempt to adjust the iron cores of the aerial coils.

Before commencing alignment, set the dial cursor with the tuning gang fully closed to the small letter "S" mark on the right-hand end of the dial scale.