

HARRIS, & SANDOVERS PERTH & SCARFE & SANDOVERS FREMANTLE

SERVICE DATA

MAS1000

MULLARD MASTER RADIO MODEL MAS1000

SPECIFICATIONS

Subject to alteration without notice.



Cabinet Moulded Bakelite mantel executed in several colours.

VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. Plate Volts	Cathode Volts	Bias Volts			
Frequency Converter	VI	ECH35	134	. 70	98	0.6				
I.F. Amplifier										
Demodulator and A.V.C.	V2	EBF35	134	98	_	0				
Power Amplifier	V3	6V6GT	178	134		~0	-9 .0			
Rectifier	V4	6X5GT	GT 188V AC per plate							
Dial Lamp	VII	6.3V 0.32A tubular screw								
V4 cathode — L10 C.T. — 200V										

NOTE: The voltages are measured between the socket points quoted and chassis using an "1,000 ohms per volt" meter.

Voltages may vary + 10% from the quoted figures. The receiver should be in a "no signal" condition.

TO REMOVE CHASSIS FROM CABINET.

Remove plug from power supply socket. Withdraw dial glass from cabinet and fold the dial pointer down into the dial glass recess. Remove the chassis bottom cover, mounted by means of two trimount studs and one screw. Access is now obtained to the control knob grub screws and the knobs may be removed. Remove four screws holding the chassis to the cabinet, two at the rear of the chassis and two at the ends of the gantry top bracket. After removal of the speaker clamp, the chassis may be withdrawn.

Replacement of the chassis is carried out by a reversal of the above procedure.

NOTE: It is essential that the bottom cover be held in position by its central mounting screw whilst the receiver is in operation.

DIAL CALIBRATION.

If station calibrations are incorrect by an equal amount over the dial scale, the condition may be corrected by lossening the thumb screw which holds the pointer assembly to the dial cord, adjusting the pointer to correct calibration and retightening the screw.

DIAL LAMP REPLACEMENT.

The dial lamp holder is slotted, and by loosening the screw holding it to the gantry top bracket, it may be withdrawn to the rear of the chassis for the purpose of lamp replacement.

MAINS VOLTAGE ADJUSTMENT.

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

ALIGNMENT.

Removal of the cabinet bottom cover allows sufficient access to the under chassis components to carry out alignment operations.

Before commencing broadcast alignment fully close the tuning gang and set the pointer by means of its clamping thumb screw in line with the L.H. vertical stroke of "U" in the word "Mullard" at the R.H. and of the dial scale.

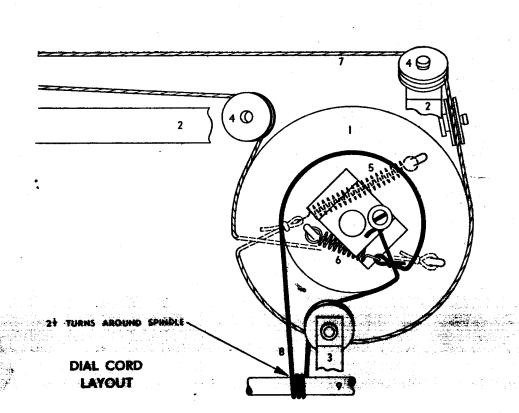
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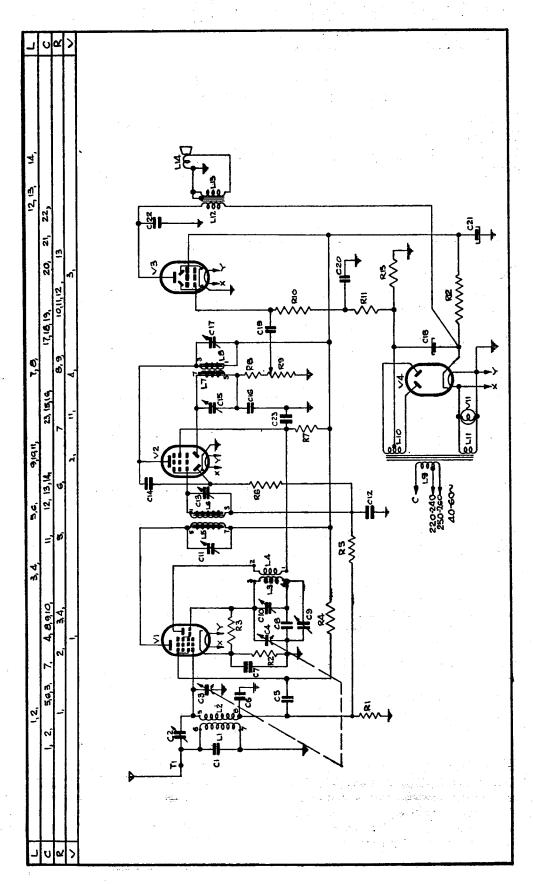


COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM

No. on Dia Diagram	l Description	Code No.	No. on Dial Diagram	Description	Code No.
1	Assembly, baffle	CR.005.004	8 C	ord, drum	CS.361.809
	Assembly, cursor	CR.480.611	— G	lass, dial, printed	CS.412.225
1	Assembly, dial drum	CR.382.200	G	rommet, power cord	CS.422.414
2	Assembly, gantry	CR.304.603	— G	rommet, speaker leads	CS.422.411
— .	Assembly, lampholder	CZ.367.903	— к	nob, mahogany	CR.523.645
3	Assembly, pulley spindle	CR.436.202	— к	nob, walnut	CR.523.643
_ ·	Assembly, terminal	CZ.376.200	— "K	nob, ebony	CR.523.644
_	Badge, Mullard	CR.531.409	4 P	ulley, dial drive	CS.360.201
-	Bracket, slide rod L.H.	CS.228.431	R	ing "C" (tuning and pulley s	pindles) CS.281.801
	Bracket, slide rod R.H.	CS.228.430	D	ing, dial cord	CS.281.807
	Cabinet, mahogany	CS.460.466		od, dial slide	CS.382.206
· — ·	Cabinet, walnut	CS.460.459	*	•	CS.362.200 CR.122.200
	Cabinet, ebony	CS.460.467		nield, chassis	
_	Clamp, baffle	CS.235.814		ocket, octal wafer	CZ.369.507
_	Clamp, dial glass L.H.	CS.234.816		pindle, tuning	CS.351.219
	Clamp, dial glass R.H.	CS.234.815		oring, dial drum (long)	CS.210.008
_	Clamp, speaker	CS.235.812	6 S _I	oring, dial drum (short)	CS.210.011
7	Cord, dial	CR.384.808			







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PARTS LISTS

RESISTORS

CAPACITORS

No. Ohms Description Code No.	21			4.6 J	F6 100)	0 = 8 m 4				IMPORTANT! In ordering spare parts, quote CODE NUMBER of part and MODEL NUMBER of Receiver. In claiming free replacement under GUARANTEE, return defective part PROMPTLY and quote MODEL and SERIAL NUMBER of Receiver and DATE OF PURCHASE.							
Description Code No.	5 0.25 megohm 1/2W carbon		50 onms 1/2W carbon	25,000 ohms 1/2W carbon		15,000 ohms 1W carbon	2 megohms 1W carbon		5,000 ohms 1W carbon		50,000 ohms 1W carbon	0.5 megohm switch potentiometer	CZ.032.000	1 megohm 1/2W carbon	100,000 ohms 1/2W carbon	2,500 ohms 5W W/W CZ.011.301	250 ohms 1W W/W
Š	R1-5	. (X	83		R4	R6		R7		88 8	8		R10	<u> </u>	R12	R13
Code No.	Bic	trimmer		ng C.Z.109.709	per 600V	per 200V	er 200V		, e		ımic trimmer	rimmer	mic	trolytic 350V	aper 600V	olytic 350V	
Description	100 pfd ceramic	30 pfd glass trimmer		2 gang tuning	0.01 mfd paper 600V	0.05 mfd paper 200V	C7-12-20 0.1 mfd paper 200V		380 ptd mica		13-15-17 125 pfd ceramic trimmer	30 pfd air trimmer	33 pfd ceramic	24 mfd electrolytic 350V	0.002 mfd paper 600V	8 mfd electrolytic 350V	
ġ	C1-16	8	. ;	22 4	C5-22-23	90	C7-12-20		రొ	C9-11-	13-15-1	010	C14	C18	C19	2	