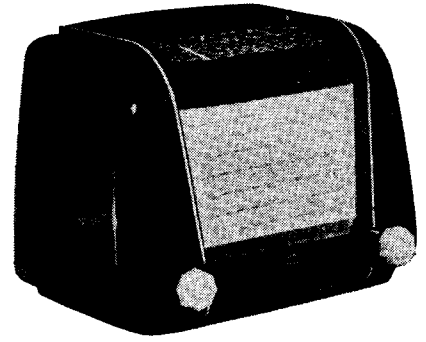




MULLARD MASTER RADIO

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 \pm 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 After these screws have been removed, the chassis may be withdrawn from the cabinet.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 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.

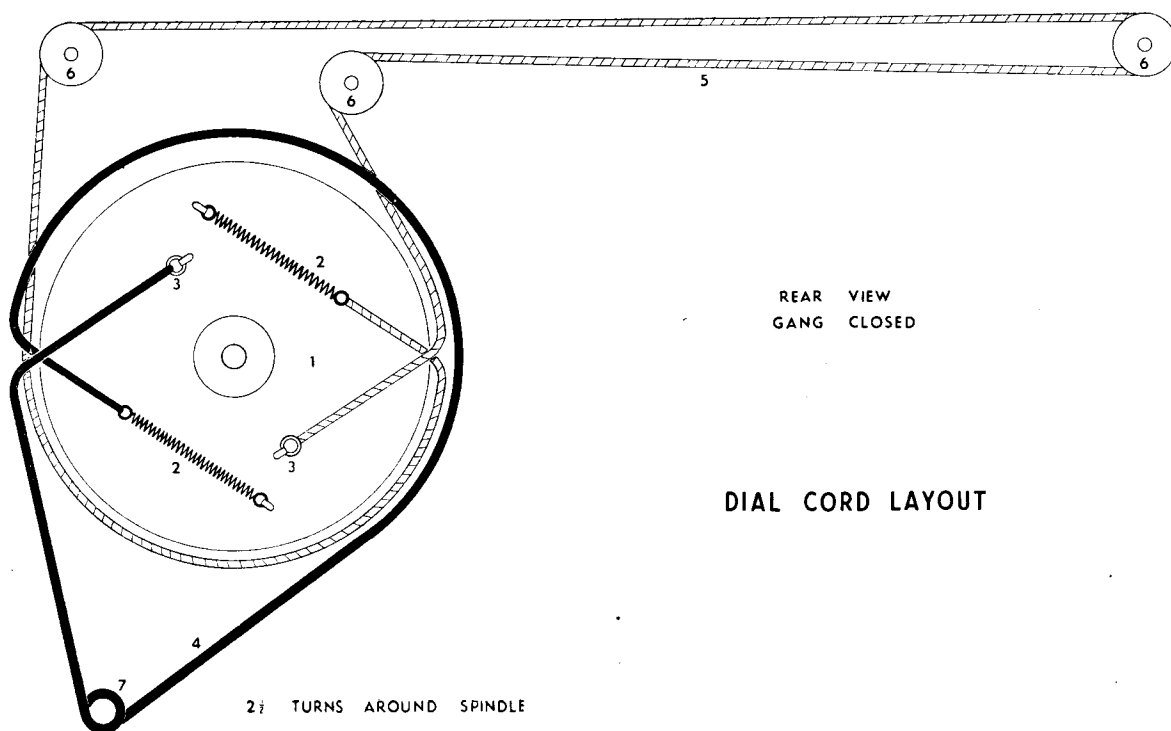
BOTTOM COVER.

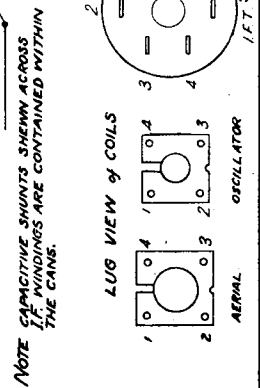
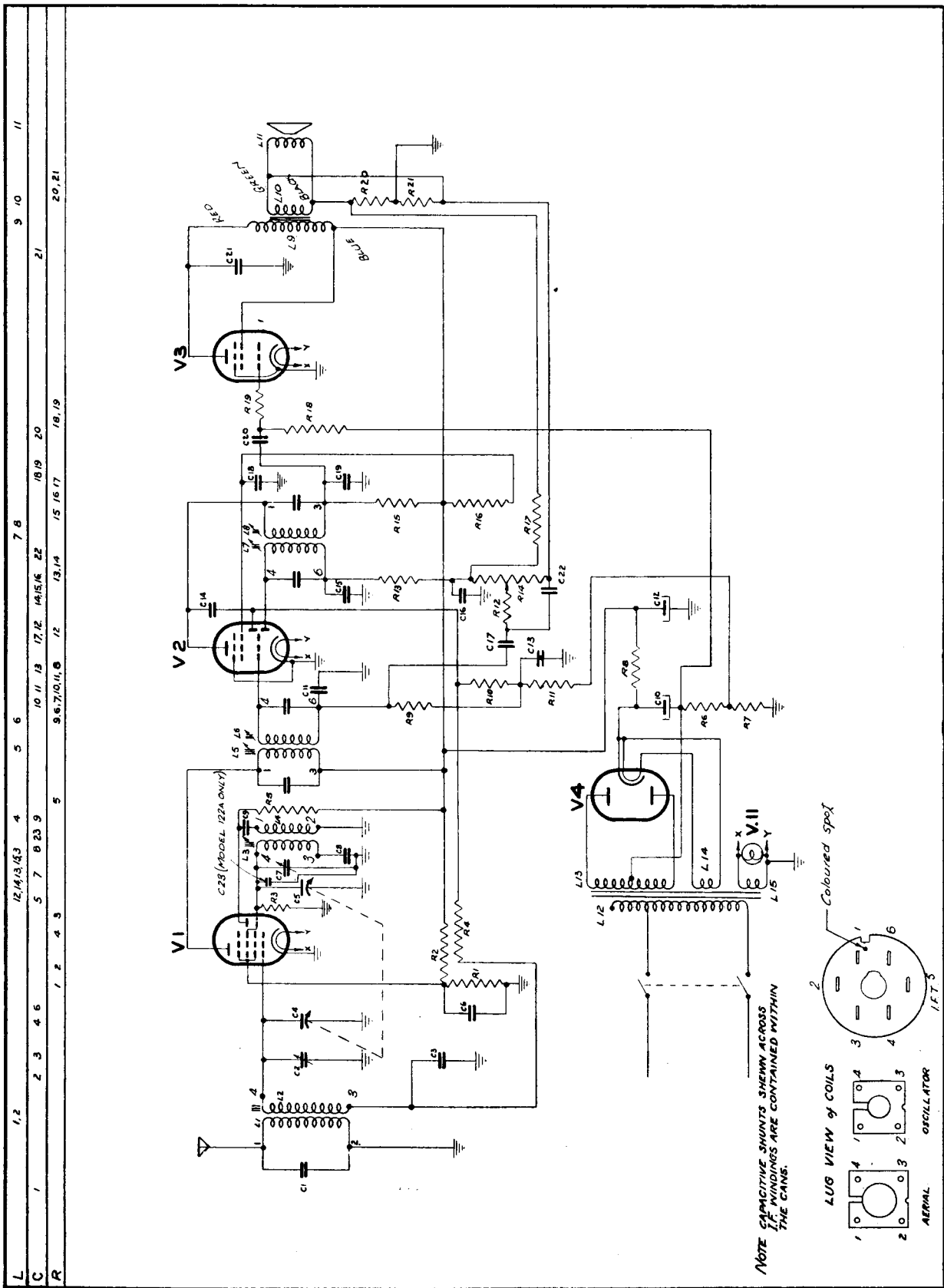
As the cabinet bottom cover is replaced ascertain that the earthing lug is in position.



MISCELLANEOUS COMPONENTS

No. on Dial	Description	Code No.	No. on Dial	Description	Code No.
—	Assembly, cabinet back	CR.572.023	—	Clip, coil can mounting	CS.235.831
—	Assembly, cursor	CR.480.633	—	Cloth, speaker baffle	CE.081.41
—	Assembly, dial back plate	CR.022.203	5	Cord, dial drive	CS.361.824
1	Assembly, dial drum, MAS1001	CR.382.201	4	Cord, drum drive	CS.361.823
1	Assembly, dial drum, MAS1001A	CR.382.202	—	Knob, ivory	CS.432.617
—	Assembly, lampholder	CZ.367.900	—	Knob, ivory with line	CS.432.623
—	Assembly, speaker plate	CR.005.006	6	Pulley, wooden	CS.360.201
—	Badge Mullard	CR.531.409	—	Ring, "C"	CS.281.802
—	Band, rubber (dial scale)	CS.433.407	3	Ring, dial cord	CS.281.807
—	Bracket, cabinet back mtg.	CS.244.603	—	Scale, dial, MAS1001	CS.412.306
—	Cabinet, walnut	CS.460.490	—	Scale, dial MAS1001A	CS.412.302
—	Cabinet, brown	CS.460.495	—	Socket, noval wafer	CZ.369.702
—	Cabinet, ivory	CS.460.500	—	Socket, octal moulded	CZ.369.515
—	Cabinet, green	CS.460.501	7	Spindle, tuning	CS.351.315
—	Cabinet, blue	CS.460.502	2	Spring, dial drum	CS.210.020
—	Cabinet, wine	CS.460.496	—	Washer, felt (knobs)	CS.424.049
—	Clamp, dial	CS.228.561			







PARTS LISTS

CAPACITORS

No.	Description	Code No.
C1	100pF mica 10%	
C2, 7	30pF air trimmer	CZ.113.700
C3, 13	0.1mF 200V paper	
C4, 5	2 gang tuning MAS1001	CZ.107.743
C4, 5	2 gang tuning MAS1001A	CZ.107.733
C6, 20	0.01mF 600V paper	
C8	450pF mica MAS1001	
C8	500pF mica MAS1001A	
C9	100pF mica	
C10, 12	24mF 350V electrolytic	
C11, 19	500pF mica	
C14	33pF mica 10%	
C15, 16	100pF ceramic	CZ.096.602
C17	0.05mF 200V paper	
C18	0.05mF 400V paper	
C21	0.02mF 600V paper	
C22	250pF mica	
C23	20pF mica 10%	

RESISTORS

No.	Description	Code No.
R1, 2	25,000 ohms 1W carbon	
R3, 12, 19	50,000 ohms ½W carbon	
R4	1 megohm ½W carbon	
R5	30,000 ohms 1W carbon	
R6	100 ohms 1W W/W	
R7	35 ohms 1W W/W	
R8	1,000 ohms 5W W/W	
R9, 10, 17	2 megohms ½W carbon	
R11	250,000 ohms ½W carbon	
R13	100,000 ohms ½W carbon	
R14	0.5 megohm switch potentiometer	CZ.032.005
R15	15,000 ohms 1W carbon	
R16	100,000 ohms 1W carbon	
R18	0.5 megohm ½W carbon 10%	
R20	50 ohms ½W carbon	
R21	25 ohms ½W carbon	

COILS

No.	Ohms.	Description	Code No.
L1	26	Aerial coil MAS1001 (red spot)	CZ.323.000
L2	2.2		
L1	28	Aerial coil MAS1001A (blue spot)	CZ.323.001
L2	2.6		
L3	3.4	Oscillator coil (red spot)	CZ.330.600
L4	1.2		
L5	12	1st I.F. Transformer	CZ.320.421
L6	12		
L7	12	2nd I.F. Transformer	CZ.320.420
L8	12		
L9	480	Speaker Transformer	CZ.345.004
L10	1		
L11	3	Speaker	CZ.161.112
L12	60	Power Transformer	CZ.344.036
L13	600		
L14	1		
L15	<0.3		

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.