

MULLARD MASTER RADIO

MODELS MAS 1060-A

NOTE: Models MAS 1060 and MAS 1060A differ from one another only in the types of I.F. transformers used. Refer to "Coils" Section of "Parts Lists" for details.

SPECIFICATIONS

(Subject to alteration without notice)



VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts
Frequency Converter	V١	6AN7	210	50	100
I.F. Amplifier, A.V.C., Demodulator and 1st Audio	V2	6N8	150	50	_
Power Amplifier	V 3	6M5	218	210	_
Rectifier	V4	EZ82	V4 Catho	de — L18	C.T., 240V
Dial Lamp	V11	6.3V 0	.32A tubular	screw	
Voltage across R18	3, -1.2V; acı	ross R17 and	18, -6.4V.		

NOTE: These voltages are measured with an "1,000 ohms per volt" meter and may vary \pm 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 mains outlet socket. Remove the control knobs (a firm pull is all that is necessary) and the lever control knobs (the tone control knob will slide right off the volume control spindle, but the wave change knob will remain captive and cannot be removed until the chassis is withdrawn). Slide the dial cursor from its carriage (a direct upward pull is required). Remove the combined cabinet back and bottom cover. The chassis is held to the cabinet by four screws — two through the baffle plate and two through the bottom of the chassis—removal of these screws permits the chassis to be withdrawn from the cabinet. On removal of the chassis, recover the wave change lever knob.

Refitting the chassis is a reversal of the removal operations. Before attempting to refit the chassis, place the wave change lever knob in the correct control hole from inside the cabinet.

MAINS VOLTAGE ADJUSTMENT.

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

ALIGNMENT.

It is not necessary to remove the chassis from the cabinet for carrying out alignment. Before commencing alignment operations, set the dial cursor, with the tuning gang fully closed, to the right hand edge of the 49M block of the dial scale.

In Model MAS 1060, the cores for the primaries of the I.F. transformers are in the bottom of the cans, those for the secondaries are in the top. In Model MAS 1060A, the adjustments for the slugs for both windings are accessible from the top of the cans.

Broadcast alignment frequencies are 600 kc/s and

Broadcast alignment frequencies are 600 kc/s and 1,420 kc/s. Shortwave alignment frequencies are 6 Mc/s (oscillator coil slug), 17.8 Mc/s (aerial trimmerrock tuning gang) and 18.4 Mc/s (tuning gang fully open, oscillator trimmer). Do not attempt to adjust the iron cores of either aerial coil.

DIAL CALIBRATION ADJUSTMENT.

If station calibrations are incorrect by an equal amount over the length of the scale, the condition may be corrected by loosening the cursor carriage to dial cord clamping screw, making the necessary adjustment and firmly retightening the screw.

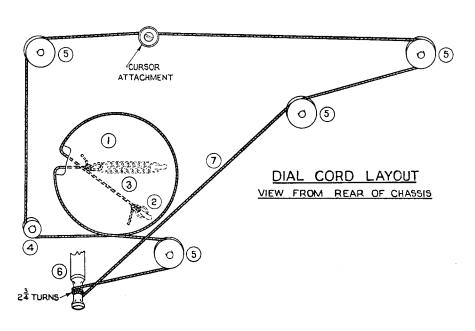
TO REMOVE DIAL SCALE.

To remove the dial scale it is necessary to remove the chassis from the cabinet. The scale is fixed to the cabinet by two screws toward the top, and two screws and a bracket toward the bottom. The scale should be withdrawn from inside the cabinet.

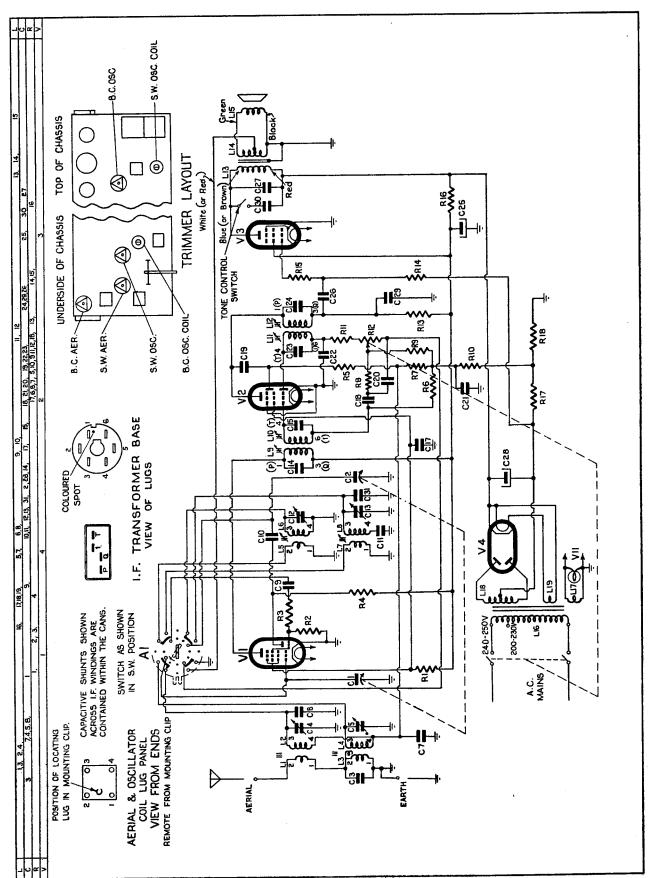


MISCELLANEOUS COMPONENTS

No. on E	Dial		No. on	Dial	
Cord Drav	ving Description	Code No.	Cord Dra	awing Description	Code No.
	Assembly, baffle	CR.005.014		Disc, retaining (W/C switch)	CS.233.815
_	Assembly, baffle grille	CR.520.820	1	Drum, dial	CS.359.806
	Assembly, cursor	CR.480.651	_	Knob, control, blue	CS.432.641
	Assembly, cursor carriage	CR.432.217		Knob, control, ivory	CS.432.639
	Assembly, lampholder	CZ.367.920	_	Knob, control, green	CS.432.642
	Assembly, masking bracket	CR.262.430	_	Knob, control, burgundy	CS.432.638
	Assembly, pulley spindle bracket	CR.265.211		Knob, control, walnut	CS.432.637
	Assembly, pulley spindle bracket	CR.265.212	_	Knob, T/C lever, blue	CS.432.809
	Assembly, W/C clicker	CR.450.041		Knob, T/C lever, ivory	CS.432.808
	Assembly, 2 lug strip	A1.358.56	_	Knob, T/C lever, green	CS.432.810
	Assembly, 3 lug strip	A1.352.63	_	Knob, T/C lever, burgundy	CS.432.806
	Assembly, 5 lug strip	CZ.375.210		Knob, T/C lever, walnut	CS.432.805
	Back, cabinet	CS.462.146	_	Knob, W/C lever, blue	CS.432.815
	Badge, Mullard	CS.436.415	_	Knob, W/C lever, ivory	CS.432.814
	Ball, steel 3/16" (W/C switch)	CH.760.015	_	Knob, W/C lever, green	CS.432.816
	Bank, W/C switch	CZ.200.048		Knob, W/C lever, burgundy	CS.432.812
	Bracket, baffle mounting	CS.222.495		Knob, W/C lever, walnut	CS.432.811
	Bracket, ball spring (W/C switch)	CS.222.497		Nipple, slide rod adj.	CS.274.603
	Bracket, cabinet back mounting	CS.244.603	4	Pulley, brass	CS.360.205
	Bracket, gang mounting		5	Pulley, plastic	CS.359.602
	(2 grommet mount)	CS.230.618	2	Ring, dial cord	CS.281.807
	Bracket, gang mounting			Rod, dial slide	CS.382.222
	(1 grommet mount)	CS.232.030	—	Scale, dial	CS.412.351
_	Bracket, retaining (W/C switch)	CS.229.615		Socket, noval wafer	CZ.369.702
_	Cabinet, blue	CR.570.453		Spacer, speaker mounting, 3X	CS.214.429
	Cabinet, ivory	CR.570.451	6	Spindle, tuning	CS.351.330
	Cabinet, green	CR.570.452	•	Spring, ball retaining (W/C swit	
_	Cabinet, burgundy	CR.570.454		Spring, ball retaining (VV/C SWI	CS.211.817
	Cabinet, walnut	CR.570.448	3	Spring, dial drum	CS.210.029
	Clip, coil can mounting	CS.235.833	,		
_	-	CH.777.370		Switch, on/off	28.650. 25
	Cloth, baffle	CE.081.85	_	Switch, tone control	CZ.210.107
7	Cord, dial drive	CS.361.821		Washer, felt (W/C switch)	CS.424.072







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PARTS LISTS

	CAPACITORS			RESISTORS	-			COILS	
ġ	Description	Code No.	o Z	Description	Code No.	o Z	Ohms	Description	Code No.
C1-2	2 gang tuning	CZ.107.746	R]	50,000 ohms 1W carbon	uo	r 17	31 2.5	S/W Aerial Coil CZ.32 (1 yellow and 1 black spots)	CZ.323.013 k spots)
C3-9-10	100 pF mica		R2	30,000 ohms ½W carbon	uo	n 7	1.5 <	B/C Aerial Coil CZ.33 (1 green and 1 black spots)	CZ.323.014 k spots)
C4-5-12- 13	30 pF air trimmer	CZ.113.700	R3	250 ohms ½W carbon	· · · · · · · · · · · · · · · · · · ·	L5 L6	15 7	S/W Oscillator Coil CZ. (1 red and 1 black spots)	CZ.330.605 spots)
C7-21	0.1 mF 200V paper		8. 4	30,000 ohms 1W carbon	Ę	L7 L8	<0.5	B/C Oscillator Coil (Z.33) (1 yellow and 1 white spots)	CZ.330.604 re spots)
C8-31	10 pF mica	01.086.110	R5-10	0.5 megohms ½W carbon	r.	L9	12.0 {	1st I.F. Transformer— MAS 1060 MAS 1060A	CZ.320.421 A3.124.25
C14-15	Part of 1st I.F. transformer	Sformer	R6-7-9	2 megohms ½W carbon		L11 L12	12.0 }	2nd I.F. Transformer— MAS 1060 MAS 1060A	CZ.320.420
C17	0.1 mF 400V paper	L	R8-11	100,000 ohms ½W carbon	uoq	L13	550.0 }	Output Transformer	CZ.345.008
C18	0.002 mF 600V paper	iper	R12	r o		L15	3.6	Speaker	49.239.58
C19	20 pF mica				CZ.030.504	L16 L17	63 < 0.5	Power Transformer	CZ.344.046
C20-22	300 pF mica		R13	15,000 ohms 1W carbon	u	L18	690 <0.5		
C23-24	Part of 2nd I.F. transformer	nsformer	R14	0.5 megohm ½W carbon 10%	on 10%	2	MPORTANT	T I In ordering spare parts,	re parts,
C25-28	24 mF 350V electrolytic	olytic	R15	50,000 ohms ½W carbon	u _o	Š¥	quote CODE	~ ~	part and iver. In
C26	0.01 mF 600V paper	Ser	R16	2,000 ohms 1W carbon	Ľ	ਚੌਂ ਹੋ	claiming fre	free replacement EE return defective	under re part
C27	0.02 mF 400V paper	oer .				3 %	PROMPTLY	and quote	_
C29	0.001 mF 600V paper	aper	R17	130 ohms ½W carbc.		SE D	SERIAL N DATE OF F	SERIAL NUMBER of Receiver DATE OF PURCHASE.	er and
C30	0.06 mF 400V paper	Jec	R18	30 ohms ½W carbon					