

OTHER COMPONENTS		Approx. Values (ohms)
L1	Aerial coupling coils ...	2.5
L2		8.5
L3		2.5
L4	Band-pass primary coils ...	13.5
L5		2.5
L6		13.5
L7	Band-pass secondary coils ...	6.0
L8		9.0
L9		4.0
L10	Reaction coils, total ...	2.5
L11		13.5
L12		90.0
L13	V2 anode RF choke ...	4.0
L14		465.0
T1		7,800.0
T2	Speaker input { Pri., total ...	800.0
S1-S5		1.0
S6		—
S7, S8	Waveband switches ...	—
S9		—
S10		—

## VALVE ANALYSIS

Valve	Anode Voltage (V)	Anode Current (mA)	Screen Voltage (V)	Screen Current (mA)
V1 VS2	145	1.0	50	0.6
V2 HL2	60	1.5	—	—
V3 PT2	166	1.2	†	0.5
V4 PT2	166	1.2	†	0.5

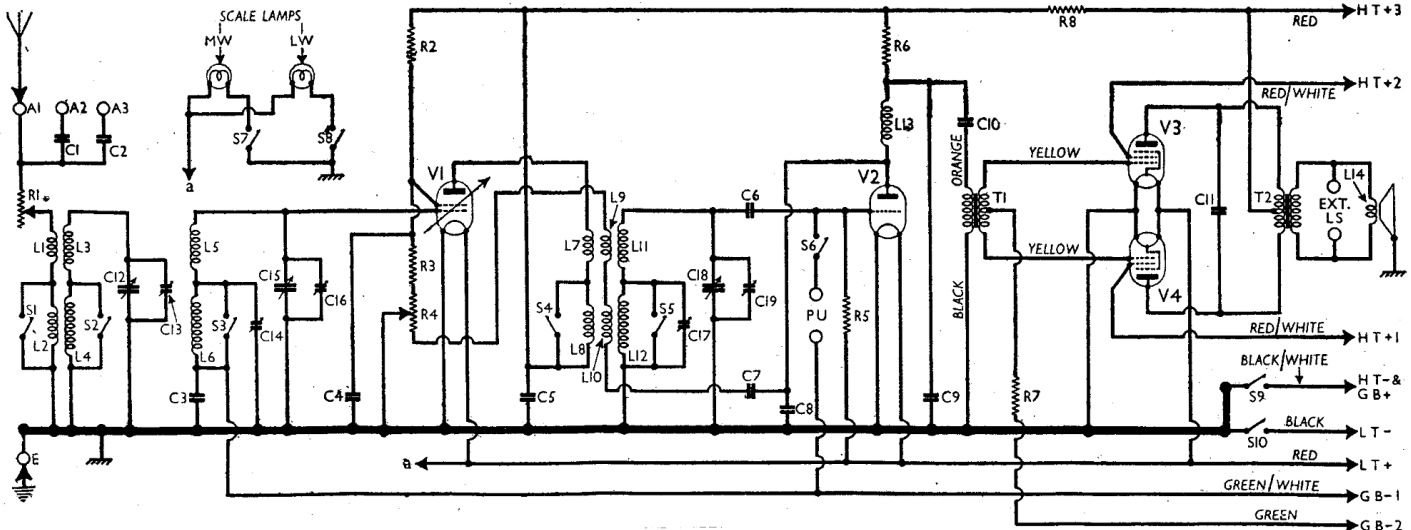
† Depends upon valve marking.

RESISTORS		Values (ohms)
R1	Aerial series resistor ...	14,000
R2	V1 SG HT feed potential {	75,000
R3		10,000
R4	Gain control ...	100,000
R5	V2 grid leak ...	2,000,000
R6	V2 anode load ...	50,000
R7	V3, V4 CG's decoupling ...	100,000
R8	V1, V2 HT feed... ...	7,500

## MARCONIPHONE - 260,285

CONDENSERS		Values (μF)
C1	A2 series condenser ...	0.0003
C2	A3 series condenser ...	0.0001
C3*	V1 CG decoupling ...	0.1
C4*	V1 SG decoupling ...	0.1
C5*	HT circuit reservoir ...	1.0
C6	V2 CG condenser ...	0.0002
C7	Reaction coupling ...	0.0002
C8	RF filter condensers ...	0.001
C9		0.1
C10*	AF coupling to T1 ...	0.002
C11	Fixed tone corrector ...	—
C12†	Band-pass pri. tuning ...	—
C13†	B-P pri. MW trimmer ...	—
C14†	B-P sec. LW trimmer ...	—
C15†	Band-pass sec. tuning ...	—
C16†	B-P sec. MW trimmer ...	—
C17†	RF trans. LW trimmer ...	—
C18†	RF trans. sec. tuning ...	—
C19†	RF trans. MW trimmer ...	—

\* In condenser block. † Variable. ‡ Pre-set.



**Switches.**—S1-S8 are the waveband, pick-up and scale lamp switches, ganged in a barrel-type assembly beneath the chassis. The switches are identified in our under-chassis view and their action is shown in the table below for the three control settings, starting on MW and turning the control clockwise. A dash indicates open, and C, closed.

Switch	MW	Gram	LW
S1	C	—	—
S2	C	—	—
S3	C	—	—
S4	C	—	—
S5	C	—	—
S6	C	C	—
S7	C	C	—
S8	—	C	C

**Marconiphone Model 285.**—This is virtually a model 260 adapted for use with Ferrocart iron-cored coils. Band-pass coupling becomes capacitive, L4 and L6 being returned to chassis via C3, which is a 0.04 μF tubular beneath the chassis, not in the block. An additional pre-set condenser is connected between the top of L3 and the top of L5, and C13, now mounted on the rear of the gang, is adjusted by a thumb-screw which projects from rear of chassis.

The RF transformer is replaced by tuned-anode coupling, V1 anode going directly to the top of L11; L7, L8 are omitted, and L12 is returned to HT+ via S4, now a radio muting switch on gram, breaking HT supplies to V1 anode and SG.

The circuit changes result in small changes in the switch connections, and tuning coil DC resistance values are modified. The tuning coils all become 1.5 Ω (MW) and 11.5 Ω (LW), while L1 and L2 are 5 Ω and 21 Ω respectively. L9, L10 and L13 are unaltered, although iron-cored, but R3 is deleted. C8 and C9 become 0.0005 μF each, C6 becomes 0.0001 μF, and there are other minor changes in component values and positions in chassis.

## CIRCUIT ALIGNMENT

Correct signal generator leads via a suitable dummy aerial to A1 and E sockets. See that the adjusting screw of C19 is fairly well slackened off.

**MW.**—Switch set to MW, feed in a weak 220 m (1,364 kc/s) signal, tune it in, and adjust C13 for maximum output. Now adjust C16 for maximum output, adjusting the volume control so as to maintain the receiver on the verge of oscillation. C19 should not be adjusted.

**LW.**—Switch set to LW, feed in a 1,200 m (250 kc/s) signal, and adjust C14, then C17, for maximum output. Return to MW and repeat all adjustments in same order.