HIS MASTER'S VOICE 259, 229 & 250

5-Valve Dual Wave A.C./D.C. Receivers

CONSUMPTION - 240 volts A.C. mains: 103 watts. 240 volts D.C. mains: 86 watts.

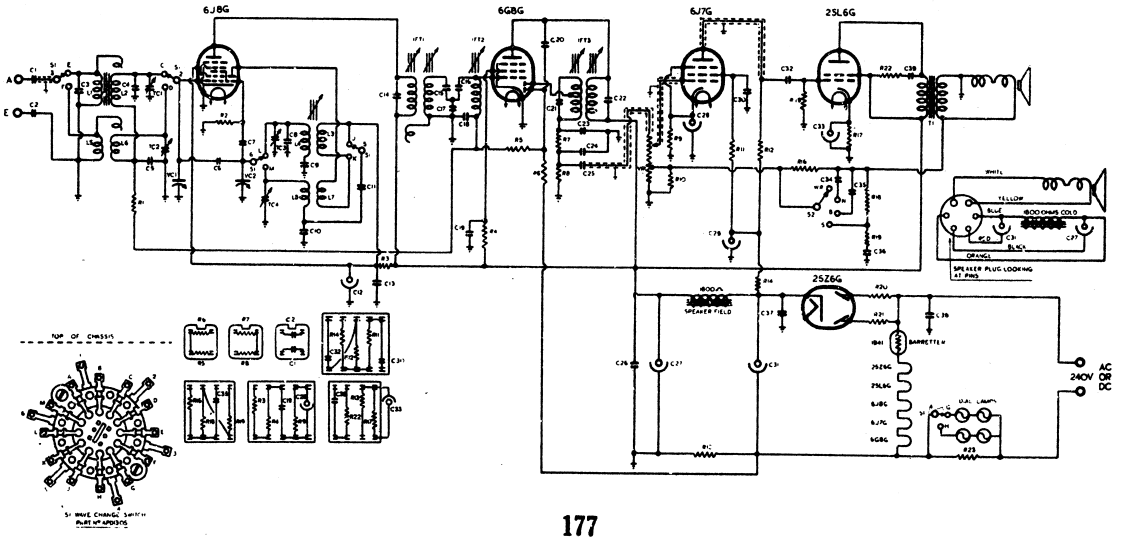
WAVE-LENGTH RANGE - B.C.: 200 metres (1500 kc.) to 545 metres (550 kc).
S.W.: 13.9 metres (21.57mc) to 47 metres (6.38mc).

MAX. UNDISTORTED POWER OUTPUT - 1.75 watts.

VALVES - 6J8G Converter. 6G8G I.F. Demod. and AVC. 6J7G A.F. 25L6G Power. 25Z6G Rectifier. 1941 Barretter.

VENTILATING COWL. The barretter and pilot lamp shunt resistor are enclosed in an asbestor-lined metal ventilating cowl INSULATED FROM CHASSIS, which conducts the heat outside the cabinet; thus the temperature inside the cabinet is kept relatively low and deterioriation of the cabinet finish is avoided.

LOUDSPEAKER: Model 229: 8-inch electrodynamic cone.
Model 259: 10-inch electrodynamic cone.
D.C. resistance of field coil (cold) - 1800 ohms.
D.C. resistance of voice coil - 2 ohms
400 cycle impedance of voice coil - 2.35 ohms



HIS MASTER'S VOICE 259, 229 & 250 (Contd.)

R1. 100,000 ohms ½W
R2. 50,000 ohms ½W
R3. 2000 ohms ½W
R4. 5000 ohms ½W
R5. 1meg. ½ Watt
R6. 1 meg. ½ Watt
R7. 50,000 ohms ½W
R8. 250,000 ohms "
R9. 4000 ohms ½W
R10.3000 ohms ½W
R11.1.5meg. ½ Watt
R12.250,000 ohms ½W
R13.40 ohms 3 Watt
R14.100000 ohms ½W
R15.500,000 ohms ½W
R16.10,000 ohms ½W
R17.150 ohms 3Watt
R18. 3000 ohms ½W
R19.300 ohms ½Watt
R20.100 ohms 3 "
R21.100 ohms 3 "
R22.300 ohms ½Watt
R23.90 ohms 20W
C1. 0.002mfd
C2. 0.005mfd
C3. 50mmfd
C4. 15mmfd
C5. 0.05mfd 200V
C6. 0.3mmfd Neut. condenser
C7. 50mmfd
C8. 20mmfd
C9. 460mmfd
C10.5400mmfd
C11.0.01mfd 600V
C12.24mfd 300V WKG elec.con. with C29
C13.0.05mfd 400V
C14.100mmfd
C15.50mmfd
C16.50mmfd
C17.0.005mfd
C18.0.05mfd 200V
C19.0.1mfd 400V
C20.50mmfd
C21.100mmfd
C22.100mmfd
C23.100mmfd
C24.100mmfd
C25.0.1mfd 400V
C26.0.5mfd 400V
C27.30mfd 300V WKG elec.cond.
C28.10mfd 25V elec.cond.
C29.8mfd 300V WKG elec.con.with C12
C30.0.25mfd 400V
C31.20mfd 450V WKG elec.cond.
C32.0.02mfd 600V
C33.10mfd 25V elec.cond.
C34.0.01mfd 600V
C35.0.02mfd 400V
C36.1mfd 200V
C37.0.02mfd 600V
C38.0.02mfd 600V
C39.0.04mfd 400V
VC1&VC2. 417mmfd 2 gang condenser
VR1. 1meg. pot. dial lamps 3.2V 0.35 amp.
S2. Tone Monitor Swtch.
1FT1. 1st I.F.Trans.
1FT2. 2nd I.F.Trans.
1FT3. 3rd I.F.Trans.
10" spkr.& elec.Mod.259
8" spkr. & elec.Mod.229
T1. Output Transformer
L1&L2. B/C Aerial Coil
L3&L4. B/C Oscillator Coil
L5&L6. S/W Aerial Coil
L7&L8. S/W Oscillator Coil

VOLTAGE TABLE

Values given are plus or minus 10% with receiver tuned to point of no reception broadcast band,with line voltage of 240 volts. If a voltmeter having a resistance of less than 1000 ohms per volt is used, allowance must be made for the voltage drop caused by the voltmeter.

Receiver used on 240 volts A.C. supply

	6J8G Osc.	6J8G Amp.	6G8G	6J7G	25L6G
Plate chassis volts	98	114	114	52	101
Plate current (ma)	4.2	1.5	7.0	0.4	48
Screen-chassis volts		97	100	22	114
Screen current (ma)		2.8	2.0	0.1	2.8
Cathode-chassis volts		0	0	1.5	7.3
Heater current (AC amps)		0.3	0.3	0.3	0.3
Voltage across back-bias resistor		2.8			
Input to filter volts		260			
Output from filter volts		114			
Total H.T. current (ma)		70			

Receiver used on 240 volts D.C. supply

	6J8G Osc.	6J8G Amp.	6G8G	6J7G	25L6G
Plate chassis volts	85	98	98	44	87
Plate current (ma)	3.5	1.3	5.8	0.34	42
Screen chassis volts		85	88	17	98
Screen current (ma)		2.4	1.7	0.08	2.5
Cathode chassis volts		0	0	1.3	6.2
Heat current (amps)		0.3	0.3	0.3	0.3
Voltage across back bias resistor		2.4			
Input to filter volts		217			
Output from filter volts		98			
Total H.F. current (ma)		57			
Pilot lamp current (amp)		0.31			