

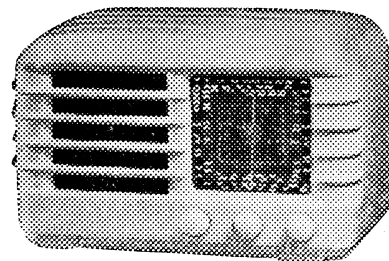
TECHNICAL INFORMATION
AND
SERVICE DATA

 **RADIOLA**

Model 518-M

**FIVE VALVE, TWO BAND
A.C. OPERATED SUPERHETERODYNE**

**ISSUED BY
AMALGAMATED WIRELESS (A/SIA.) LTD.**



ELECTRICAL SPECIFICATIONS

FREQUENCY RANGES.....	Medium Wave 1600-540 kc/s (187.5-555M) Short Wave 18-6 Mc/s (16-50M)
INTERMEDIATE FREQUENCY.....	455 kc/s
POWER SUPPLY RATING.....	200-260 volts, 50-60 C.P.S. (Models are produced with other voltage and frequency ratings.)
POWER CONSUMPTION.....	60 watts

VALVE COMPLEMENT:

- (1) 6J8G Converter
- (2) 6SK7GT I.F. Amp.
- (3) 6SQ7GT Det., A.V.C.
and A.F. Amp.
- (4) 6V6GT Output
- (5) 6X5GT Rectifier

LOUDSPEAKER:

5 inch—Code No. AA16
Transformer—XA2
V.C. Impedance—3 ohms at
400 C.P.S.
Field—1000 ohms

Undistorted Power Output:
3 watts.

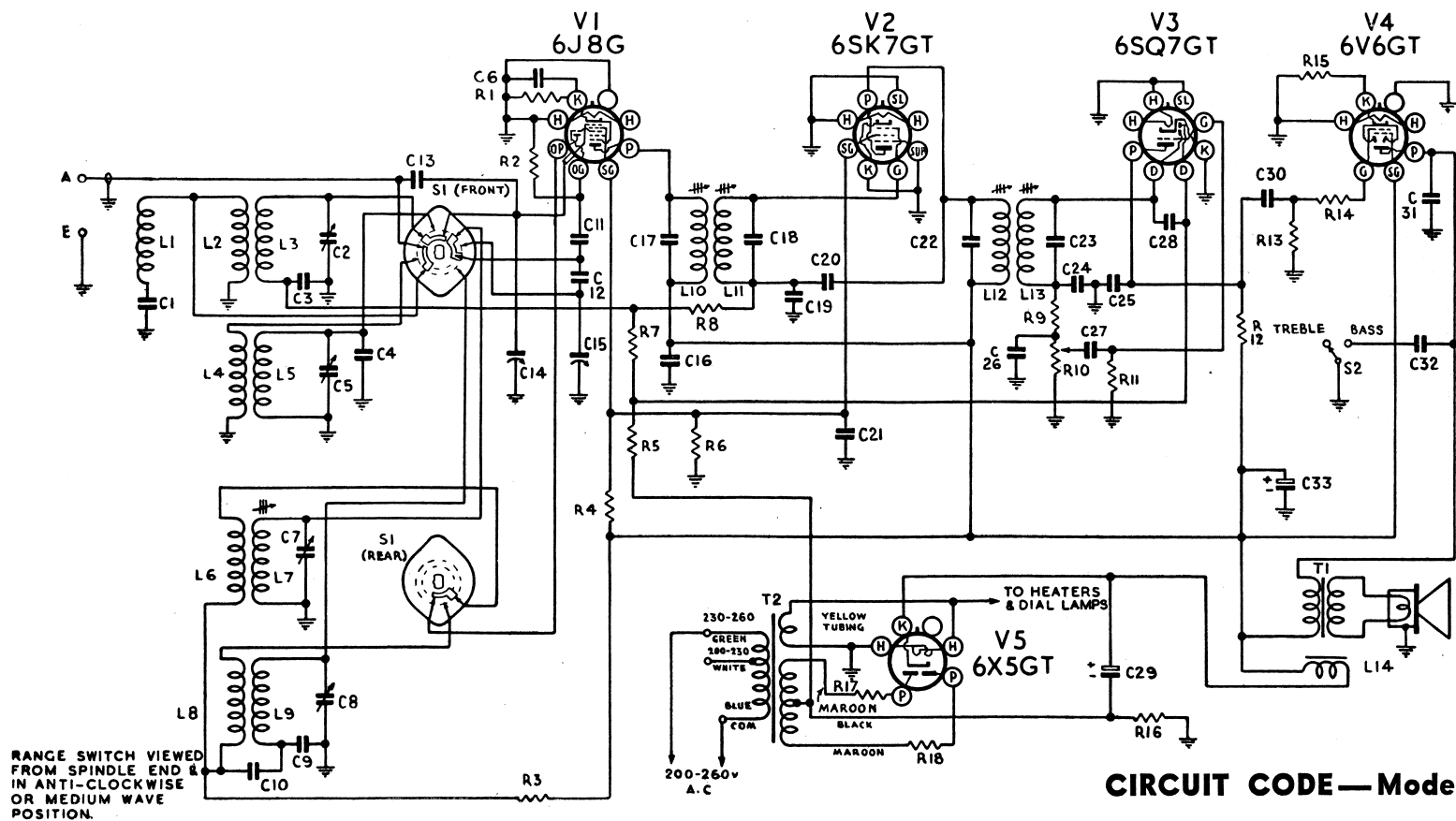
GENERAL DESCRIPTION.

The model 518-M is a mantel model housed in an attractively designed moulded cabinet, which is produced in three colours—Ivory, Walnut and Burgundy.

Features of its design include: Tropic-proof construction, automatic volume control, magnetite cores in I.F. transformers and broadcast oscillator coil, air-dielectric trimming capacitors.

Electrically, this receiver closely resembles the model 510-M, differences being in the addition of an ON/OFF power switch and slight circuit code alterations. (See back for circuit diagram and code.)

For all other information, refer to the 510-M Service Instruction Manual.



RANGE SWITCH VIEWED FROM SPINDLE END & IN ANTI-CLOCKWISE OR MEDIUM WAVE POSITION.

CIRCUIT CODE—Model 518-M

Circuit Code No.	Description	Stock Code or Part No.
INDUCTORS.		
L1	I.F. filter (including C1)	9382
L2, L3	Aerial coil, 540-1600 kc/s	15454
L4, L5	Aerial coil, 6-18 Mc/s	15456
L6, L7	Oscillator coil, 540-1600 kc/s	9206A
L8, L9	Oscillator coil, 6-18 Mc/s	15458
L10, L11	1st I.F. transformer	22700
L12, L13	2nd I.F. transformer	22703
L14	Loudspeaker field, 1000 ohms	
RESISTORS.		
R1	200 ohms, 1/2 watt	
R2	32,000 ohms, 1/2 watt	
R3	25,000 ohms, 1 watt	
R4	25,000 ohms, 2 watt	
R5	2.5 megohms, 1/2 watt	
R6	20,000 ohms, 1 watt	
R7	1.6 megohms, 1/2 watt	
R8	0.1 megohm, 1/2 watt	
R9	50,000 ohms, 1/2 watt	
R10	0.5 megohm, volume control	

Circuit Code No.	Description	Stock Code or Part No.
R11	10 megohms, 1 watt	
R12	0.25 megohm, 1 watt	
R13	0.5 megohm, 1/2 watt	
R14	40,000 ohms, 1/2 watt	
R15	325 ohms, 3 watt	
R16	50 ohms, 3 watt	
R17	100 ohms, 1/2 watt	
R18	100 ohms, 1/2 watt	
CAPACITORS.		
C1	50 μ F silvered mica	
C2	3-25 μ F mica air trimmer	19659
C3	0.05 μ F paper, 200 v. working	15422
C4	9 μ F mica	
C5	3-25 μ F mica air trimmer	19659
C6	0.1 μ F paper, 200 v. working	
C7	3-25 μ F mica air trimmer	19659
C8	3-25 μ F mica air trimmer	19659
C9	4000 μ F mica (S.W. padder)	
C10	0.05 μ F paper, 400 v. working	

Circuit Code No.	Description	Stock Code or Part No.
C11	70 μ F mica	
C12	470 μ F mica (M.W. padder)	
C13	4 μ F mica	
C14	12-430 μ F variable, tuning (ganged)	18201
C15	12-430 μ F, variable, tuning (ganged)	18201
C16	0.1 μ F paper, 400 v. working	
C17	70 μ F mica	
C18	70 μ F mica	
C19	0.05 μ F paper, 400 v. working	
C20	9 μ F mica	
C21	0.1 μ F paper, 400 v. working	
C22	70 μ F mica	
C23	70 μ F mica	
C24	100 μ F mica	
C25	200 μ F mica	
C26	100 μ F mica	

Circuit Code No.	Description	Stock Code or Part No.
C27	0.01 μ F paper, 600 v. working	
C28	50 μ F mica	
C29	8 μ F, 525 P.V. electrolytic	
C30	0.02 μ F paper, 600 v. working	
C31	0.01 μ F paper, 600 v. working	
C32	0.03 μ F paper, 600 v. working	
C33	16 μ F, 525 P.V. electrolytic	
TRANSFORMERS.		
T1	Loudspeaker Transformer	XA2
T2	Power, 50-60 C.P.S.	17859B
T2	Power, 40 C.P.S.	17861B
SWITCHES.		
S1	Range, single wafer, 4 pole, 2 position rotary	20156
S2	Tone, S.P.S.T., toggle	20109