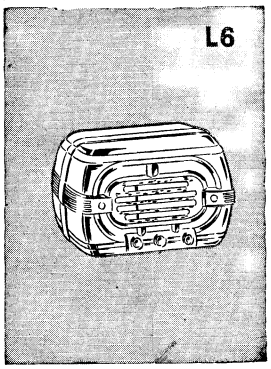


MODEL

L64ME

Hotpoint
BAND-MASTER

SERVICE DATA & TECHNICAL INFORMATION

FOUR VALVE BROADCAST

AUSTRALIAN GENERAL ELECTRIC PROPRIETARY LIMITED

A.C. OPERATED SUPERHETERODYNE

ELECTRICAL SPECIFICATIONS.

Frequency Range	540-1600 Kc/s. (555-187.5 M)
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 ..... 35 watts

LOUDSPEAKER (Permanent Magnet):
5 inch—Code number AC53.
Transformer—XA2.

V.C. Impedance—3 ohms at 400 C.P.S.
Undistorted Power Output—1.5 watts.

VALVE COMPLEMENT:

(1) 6BE6, Converter.
(2) 6AR7GT, I.F. Amp., Det., A.V.C.
(3) N78, Output.*
(4) 5Y3GT Rectifier.

*Some receivers have been fitted with a KT61 output valve which is identical in performance with the N78. KT61 socket connections are shown in Fig. 4.

MECHANICAL SPECIFICATIONS.

	Height	Width	Depth
Cabinet Dimensions (ins.)	$7\frac{3}{4}$	$12\frac{7}{8}$	$7\frac{1}{4}$
Carton Dimensions (ins.)	10	16	10
Weight (nett lbs.)	12 lbs.		
Cabinet Colours	Walnut, Ivory, Burgundy.		

GENERAL DESCRIPTION.

The Hotpoint L64ME is a compact mantel receiver housed in an attractively designed two-piece plastic cabinet. The back is so designed to enable the receiver to be carried with ease.

Features of design include—Tropic-proof construction, automatic volume control, magnetite cores in I.F. transformers and oscillator coil, automatic tone compensation, straight-line edge lighted plastic dial scale.

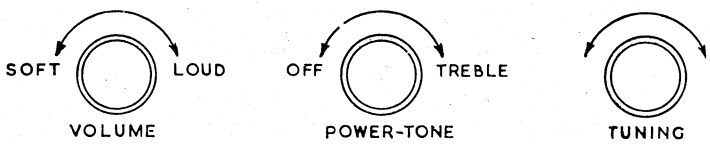


FIG. 1.

ALIGNMENT PROCEDURE.

Manufacturer's Setting of Adjustments.

The receiver is tested by the manufacturer with precision instruments and all adjusting screws are sealed. Re-alignment should be necessary only when components in tuned circuits are replaced or repaired, or when it is found that the seals over the adjusting screws have been broken.

It is especially important that the adjustments should not be altered unless in association with the correct testing instruments listed below.

Under no circumstances should the plates of the ganged tuning capacitor be bent, as the unit is accurately aligned during manufacture and cannot be re-adjusted unless by skilled operators using specialised equipment.

For all alignment operations, connect the "low" side of the signal generator to the receiver chassis, and keep the generator output as low as possible to avoid A.V.C. action. Also, keep the volume control in the maximum clockwise position.

Testing Instruments.

(1) A.W.A. Junior Signal Generator, type 2R3911, or

(2) A.W.A. Modulated Oscillator, type J6726.
If the modulated oscillator is used, connect a 0.25 megohm non-inductive resistor across the output terminals.

(3) A.W.A. Output Meter, type 2M8832.

CIRCUIT CODE L64-ME.

Code No.	Description	Part No.
	INDUCTORS	
L1	I.F. Filter (including C1)	9382
L2, L3	Aerial Coil 540-1600 Kc/s.	7647A
L4	Oscillator Coil 540-1600 Kc/s.	15949
L5, L6	1st I.F. Transformer	22709
L7, L8	2nd I.F. Transformer	22703
	RESISTOR	
R1	20,000 ohms ½ watt	
R2	0.5 megohm ½ watt	
R3	1.0 megohm ½ watt	
R4	2.5 megohm ½ watt	
R5	10,000 ohms 1 watt	
R6	0.5 megohm Volume Control (Tapped at 100,000 ohms)	26890
R7	10,000 ohms ½ watt	
R8	75 ohms ½ watt	
R9	0.5 megohm ½ watt	
R10	2,000 ohms 1 watt	
R11	50,000 ohms ½ watt	
R12	0.1 megohm Tone Control (including S1)	26441

Code No.	Description	Part No.
	CAPACITORS	
C1	50 uuF Silvered Mica	
C2	4 uuF Mica	
C3	2-20 uuF Trimmer (on Gang)	
C4	12-430 uuF Tuning	18671
C5	0.05 uF Paper 200 v. Working	
C6	470 uuF Padder ± 2½%	
C7	2-20 uuF Trimmer (on Gang)	
C8	12-430 uuF Tuning	18671
C9	70 uuF Silvered Mica	
C10	70 uuF Silvered Mica	
C11	0.05 uF Paper 200 v. Working	
C12	0.1 uF Paper 400 v. Working	
C13	70 uuF Silvered Mica	
C14	70 uuF Silvered Mica	
C15	500 uuF Mica	
C16	0.025 uF Paper 400 v. Working	
C17	24 uF 350 P.V. Electrolytic	

Code No.	Description	Part No.
C18	0.025 uF Paper 400 v. Working	
C19	0.1 uF Paper 400 v. Working	
C20	24 uF 350 P.V. Electrolytic	
C21	0.01 uF Paper 600 v. Working	
C22	0.05 uF Paper 400 v. Working	
C23	9 uuF Mica	
	TRANSFORMERS	
T1	Loudspeaker Transformer	XA2
T2	Power Transformer 50-60 C.P.S.	17871C
	Power Transformer 40 C.P.S.	17873C
	LOUDSPEAKER	
	5 inch Permanent Magnet	AC53
	SWITCH	
S1	Power Switch (on R12)	

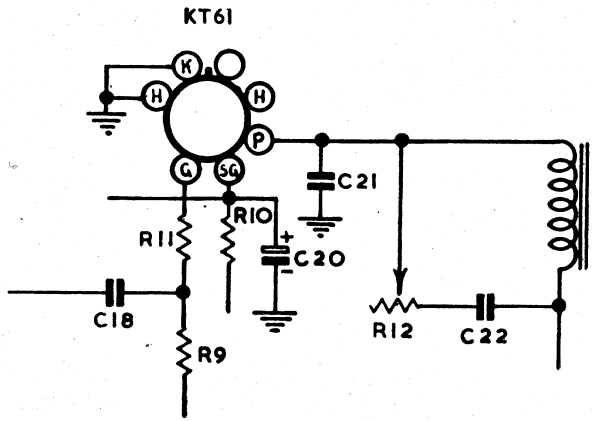
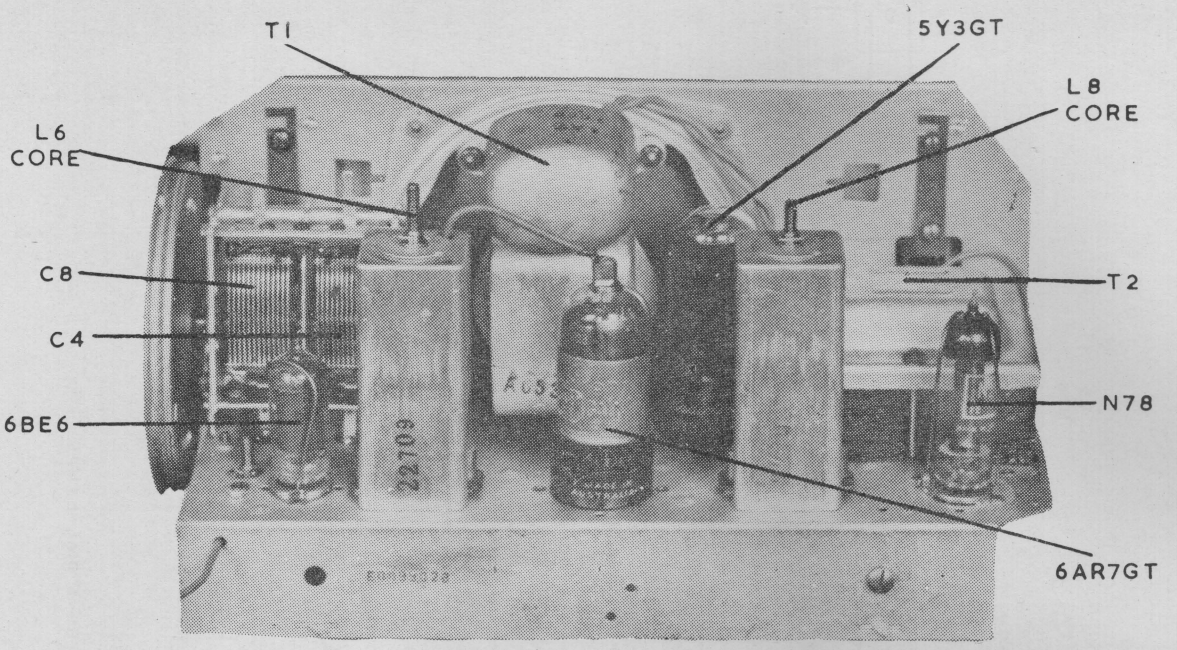
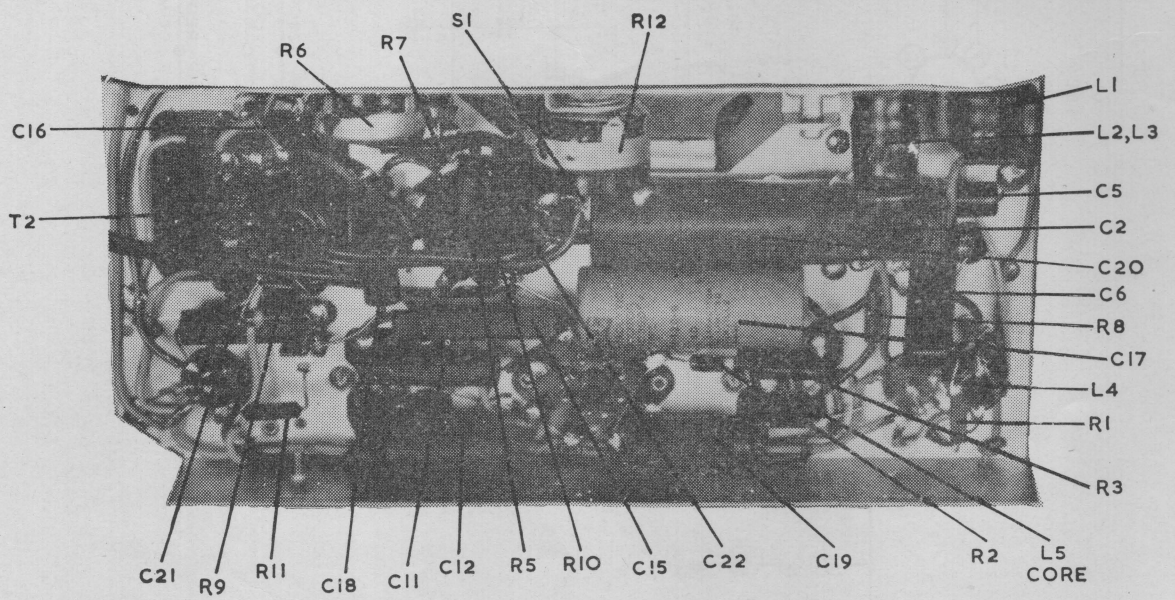


FIG. 4.

Code Values are unchanged.



CHASSIS TOP VIEW MODEL L64ME



CHASSIS UNDERNEATH VIEW MODEL L64ME

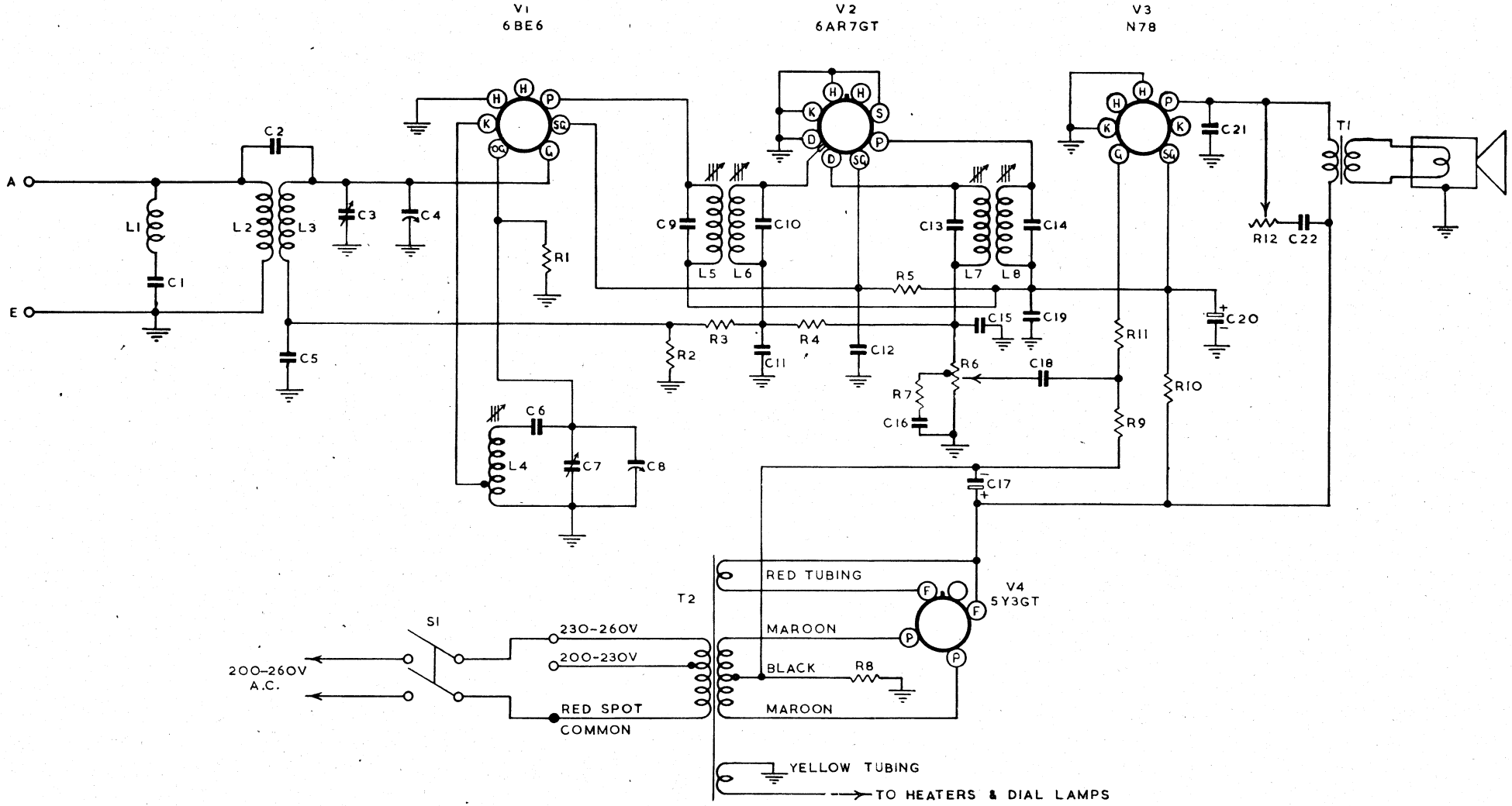

V1
6BE6
V2
6AR7GT
V3
N78
A
E
L1
L2
L3
C1
C2
C3
C4
C5
R1
C6
L4
C7
C8
C9
C10
L5
L6
R2
R3
R4
C11
C12
C13
C14
L7
L8
R5
C15
C19
R6
C18
R7
C16
R11
R10
R9
C17
C20
C21
T1
R12
C22
T2
S1
230-260V
200-230V
200-260V
A.C.
RED SPOT
COMMON
RED TUBING
MAROON
BLACK
R8
MAROON
V4
5Y3GT
YELLOW TUBING
TO HEATERS & DIAL LAMPS

FIG. 5.

ALIGNMENT TABLE.

Alignment Order	Connect "high" side of Generator to:	Tune Generator to:	Tune Receiver to:	Adjust for Maximum Peak Output
1	Aerial Section of Gang (Rear portion)	455 Kc/s.	540 Kc/s.	L8 Core
2	Aerial Section of Gang (Rear portion)	455 Kc/s.	540 Kc/s.	L7 Core
3	Aerial Section of Gang (Rear portion)	455 Kc/s.	540 Kc/s.	L6 Core
4	Aerial Section of Gang (Rear portion)	455 Kc/s.	540 Kc/s.	L5 Core
	Repeat the above adjustments until the maximum output is obtained.			
5	Aerial Lead	600 Kc/s.	600 Kc/s.	L.F. Osc. Core Adj. (L4)*
6	Aerial Lead	1500 Kc/s	1500 Kc/s.	H.F. Osc. Adj. (C7)
7	Aerial Lead	1500 Kc/s	1500 Kc/s.	H.F. Aer. Adj. (C3)
	Repeat adjustments 5, 6 and 7.			

*Rock the tuning control back and forth through the signal.

Chassis Removal.

(1) Remove the control knobs by pulling them straight off their spindles.

(2) Remove two recessed nuts from the top of the cabinet back, two screws from underneath the cabinet back and withdraw it.

(3) The chassis is held to the cabinet front by two screws situated under it. Removal of these enables the chassis to be withdrawn from the cabinet.

When replacing the chassis, make sure that the dial lamps locate correctly in their respective light cowls.

Tuning Drive Cord Replacement.

The accompanying diagram shows the route of the cord and the method of attachment. The fret assembly must be removed before the drive cord can be fitted.

Connection to Power Supply.

The receiver should not be connected to any circuit supplying other than alternating current from 200-260 volts and at the frequency stated on the label, within the cabinet. The power supply connections are shown in the accompanying diagram.

DRIVE CORD REPLACEMENT

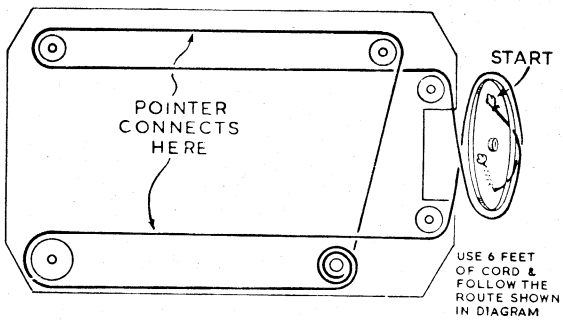


FIG. 2.

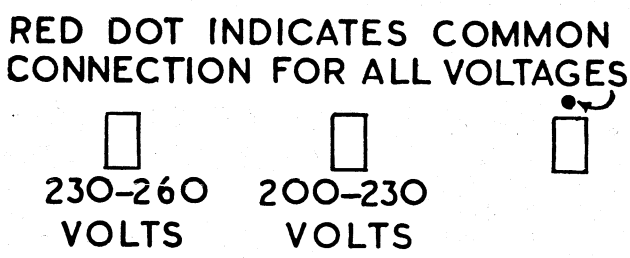


FIG. 3.

MECHANICAL REPLACEMENT PARTS.

Item	Part No.
Cabinet, front	26501
Cabinet, back	26502
Cable power	15940
Clip, grid	7459
Dial, pointer	26884
Dial, scale, Northern	25964
Dial, scale, Southern	25962
Drum, drive	25261
Fret, assembly	26889

Item	Part No.
Knob	26516
Light shield (walnut and burgundy cabinets only)	26527
Light shield (ivory cabinet only)	27043
Socket, valve octal	4704
Socket, valve miniature	19965
Spindle, drive	26520
Strip, tag 1 way	7628.

D.C. RESISTANCE OF WINDINGS.

Winding	D.C. Resistance in ohms
Aerial Coil:	
Primary (L2)	30
Secondary (L3)	4
Oscillator Coil (L4)	5
I.F. Filter (L1)	17.5*
I.F. Transformer Windings	10
Power Transformer (T2):	
Primary	60
Secondary	350
Loudspeaker Input Transformer (T1):	
Primary	525 or 430
Secondary	†

*In some receivers this reading may be as high as 60 ohms.
†Less than 1 ohm.

The above readings were taken on a standard chassis, but substitution of materials during manufacture may cause variations and it should not be assumed that a component is faulty if a slightly different reading is obtained.

SOCKET VOLTAGES.

VALVES		Screen Grid to Chassis Volts	Anode to Chassis Volts	Anode Current mA.	Heater Volts
6BE6	Converter	85	200	1.5	6.3
6AR7GT	I.F. Amp., Det., A.V.C.	85	200	7.5	6.3
N78	Output	160	190	23	6.3
5Y3GT	Rectifier	—	190 A.C.	—	5.0

Volts across back-bias resistor R8—3.0 v.
Total H.T. Current—43 mA.
Measured at 240 volts A.C. supply. No signal input. Volume Control maximum clockwise. Voltmeter 1000 ohms per volt; measurements taken on highest scale giving accurate readable deflection.