

RADIO CORPORATION PTY. LTD. Bulletin: PM-1.

DIVISION OF ELECTRONIC INDUSTRIES LTD.

126-130 GRANT STREET, SOUTH MELBOURNE, S.C.4.

TECHNICAL BULLETIN

Bulletin: PM-1. File: Receivers AC.

Date: 7/8/52.

Page: 1.

MANTEL MODEL "PM"

5 Valve Superheterodyne Broadcast Receiver.

For operation from:-

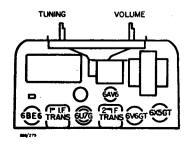
200-250 Volt 50 Cycle AC. Mains Supply. Power Consumption 40 Watts (approx.)

Tuning Range:-

535-1640 Kc/s. : 560.7-182.9 Metres

This Bulletin contains:-

- 1. Alignment Instructions.
- 2. Circuit Diagram.
- 3. Component Parts List.
- 4. Connections for IF. and RF. Transformers.
- 5. Dial Drive Cording Diagram.



ALIGNMENT PROCEDURE

EQUIPMENT

ALIGNMENT CONDITIONS

Signal Generator:

Load Impedence: 5.000 ohms

Output Meter:

Output Level : 50 Milliwatts

Mica Capacitor : 0.01MF (for I.F.

trans. alignment)

Vol. Control : Max. Vol. fully clockwise.

Intermed. Freq.: 455 Kc/s.

Dummy Antenna

: 200MMF. Mica Capacitor

Input Voltage : 230 Volts 50 Cycle

AC. input to trans. 221-250 volt pri. tap.

Alignment Tools: Type M195 and

PM581.

Dummy Antenna: The 200MMF. dummy antenna must not be connected to the free end of the 25 ft. antenna during alignment, but must be connected to the antenna junction lug on the chassis. It is not necessar, to have the 25 ft. antenna connected to the receiver during alignment, if it is connected it should be rolled up into a small hank.

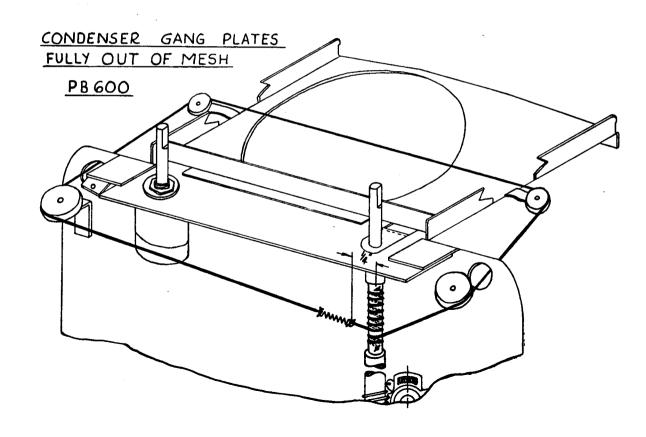
Opera- Generator Generator Dummy tion Connection Frequency Antenna No.			•	Instructions	
1.	To control grid of 6U7G valve	455 Kc/s.	0.01MF. Mica capacitor in series with generator	Remove chassis from cabinet. Leave grid cap on valve. Peak 2nd I.F. trans pri. and sec. for max. output.	
2.	To control grid of 6BE6 valve (pin No. 7)	455 Kc/s.	O.OlMF. Mica capacitor in series with generator	Turn cond. gang plates fully out of mesh. Leave grid wire attached to valve socket. Peak 1st I.F. trans pri. and sec. for max. output.	
3.				Repeat operations No. 1 and 2.	
4.			·	Fully mesh the cond. gang plates. Set the centre of the dial pointer to align with the centre of the end of travel mark on the dial reading near 540 Kc/s.	
5.	To antenna junction lug on chassis	600 Kc/s.	200MMF. Mica capacitor in series with generator	Turn cond. gang and dial pointer until centre of dial pointer aligns with centre of 600Kc/s. spot on dial reading. Leave the gang and pointer set in this position and peak the oscl. coil inductance trim (iron core) for max. output.	

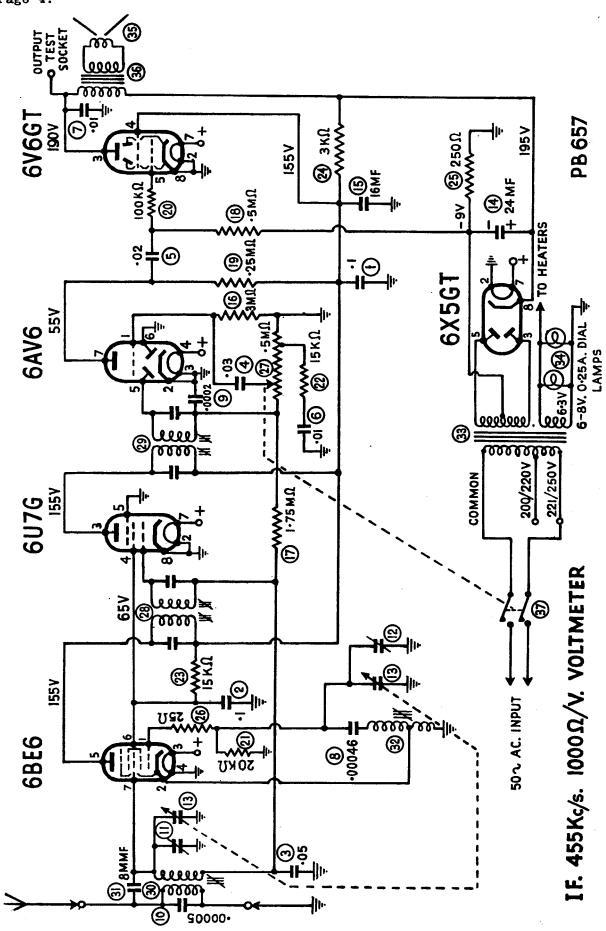
CORDING OF DIAL DRIVE

Length of cord required is 4 ft. which includes about 8" to spare for tying to tension spring.

Cord Part No. 34/754.

Tension Spring Part No. 73/239-1.



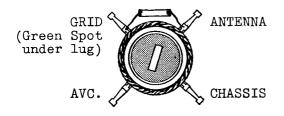


1. 1.5-18MMF. Trimmer Condenser 2. 3-50MMF. Trimmer Condenser 3. 2 Gang Varb. Condenser with gears 4. 24MF. E'lytic Cond. 5. 16MF. E'lytic Cond. 6. 3 Megohm Carbon Resistor 7. 1.75 Megohm Carbon Resistor 8. 5 Megohm Carbon Resistor 10%	ircuit No.	Description	$\texttt{Tol.} \pm$	Rating	Part No.
21MF. Paper Condenser 20% 400V. DCW. 305MF. Paper Condenser 20% 200V. DCW. 403MF. Paper Condenser 20% 200V. DCW. 502MF. Paper Condenser 20% 600V. DCW. 601MF. Paper Condenser 20% 600V. DCW. 701MF. Paper Condenser 20% 600V. DCW. 800046MF. Mica Condenser 20% 600V. DCW. 90002MF. Mica Condenser 10% 1000VT. 1000005MF. Mica Condenser 10% 1000VT. 11. 1.5-18MMF. Trimmer Condenser 10% 1000VT. 12. 3-50MMF. Trimmer Condenser 20% 500V. 13. 26 Magohm Carbon Resistor 10% 350PV. 15. 16MF. E'lytic Cond. 20% 350PV. 16. 3 Magohm Carbon Resistor 10% 4 Watt 10% 10% 10% 10% 10% 10% 10% 10% 10% 10%	11MF.	Paper Condenser	20%	400V DCW	PC103
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502MF. Paper Condenser	4O3MF	. Paper Condenser		200V. DCW	PC303
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16. 3 Megohm Carbon Resistor 1					PC283
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20,000 Ohm Carbon Resistor 10% ½ Watt 20,000 Ohm Carbon Resistor 15,000 Ohm Carbon Resistor 15,000 Ohm Carbon Resistor 10% ½ Watt 21. 15,000 Ohm Carbon Resistor 10% 1 Watt 22. 15,000 Ohm Carbon Resistor 10% 1 Watt 23. 15,000 Ohm Carbon Resistor 24. 3,000 Ohm Carbon Resistor 25. 250 Ohm Wire Wound Resistor 26. 25 Ohm Wire Wound Resistor 275 Megohm Carbon Potentiometer 28. No. 1 IF. Transformer 455 Kc/s. 29. No. 2 IF. Transformer 455 Kc/s. 29. No. 2 IF. Transformer 455 Kc/s. 200. Antenna Transformer 201. 8MMF. Cond. part of Ant. Trans. 202. Oscl. Coil 2 Power Transformer 200-250V. 50 cycle 2 Power Transformer 200-260V. 40 cycle 2 Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb 25. Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. 26. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 27. Valve Socket-8 pin 27. Valve Shield-STl2 bulb (6U7G valve) 27. On/off switch - part of circuit No. 27.	7. l.75 N	Megohm Carbon Resistor		* Watt	PR248
20,000 Ohm Carbon Resistor 10% ½ Watt 20,000 Ohm Carbon Resistor 15,000 Ohm Carbon Resistor 15,000 Ohm Carbon Resistor 10% ½ Watt 21. 15,000 Ohm Carbon Resistor 10% 1 Watt 22. 15,000 Ohm Carbon Resistor 23. 15,000 Ohm Carbon Resistor 24. 3,000 Ohm Carbon Resistor 25. 250 Ohm Ware Wound Resistor 26. 25 Ohm Wire Wound Resistor 275 Megohm Carbon Potentiometer 28. No. 1 IF. Transformer 455 Kc/s. 29. No. 2 IF. Transformer 455 Kc/s. 29. No. 2 IF. Transformer 455 Kc/s. 20. Antenna Transformer 20. 250. Antenna Transformer 20. 250V. 50 cycle Power Transformer 200-250V. 50 cycle Power Transformer 200-260V. 40 cycle 14. Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb 25. Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. 26. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) 27. On/off switch - part of circuit No. 27.	85 Meg	gohm Carbon Resistor		¥ Watt	PR245
20,000 Ohm Carbon Resistor 10% ½ Watt 11. 20,000 Ohm Carbon Resistor 12. 15,000 Ohm Carbon Resistor 13. 15,000 Ohm Carbon Resistor 14. 3,000 Ohm Carbon Resistor 15. 250 Ohm Carbon Resistor 16. 25 Ohm Wire Wound Resistor 175 Megohm Carbon Potentiometer 18. No. 1 IF. Transformer 455 Kc/s. 19. No. 2 IF. Transformer 455 Kc/s. 10. Antenna Transformer 10. 8MMF. Cond. part of Ant. Trans. 10. Oscl. Coil 10. Fower Transformer 200-250V. 50 cycle 10. Power Transformer 200-260V. 40 cycle 10. Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb 15. Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. 16. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 17. Valve Socket-8 pin 18. Valve Socket-8 pin 19. Valve Shield-ST12 bulb (6U7G valve) 19. On/off switch - part of circuit No. 27.	925 Me	egohm Carbon Resistor		î Watt	PR496
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10% 1 Watt 24. 3,000 Ohm Carbon Resistor 25. 250 Ohm Carbon Resistor 26. 25 Ohm Wire Wound Resistor 275 Megohm Carbon Potentiometer 28. tapped at 40K. Ohms DP.ST. 29. No. 1 IF. Transformer 455 Kc/s. 29. No. 2 IF. Transformer 455 Kc/s. 29. No. 2 IF. Transformer 455 Kc/s. 30. Antenna Transformer 31. 8MMF. Cond. part of Ant. Trans. 32. Oscl. Coil 33. \[34. \] Power Transformer 200-250V. 50 cycle \[35. \] Power Transformer 200-260V. 40 cycle 40. Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb 41. Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. 42. attached 43. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 44. Valve Socket-8 pin 45. Valve Shield-ST12 bulb (6U7G valve) 47. On/off switch - part of circuit No. 27.	2. 15,000	O Ohm Carbon Resistor		🖣 Watt	PR500
24. 3,000 Ohm Carbon Resistor 25. Ohm Wire Wound Resistor 26. 25 Ohm Wire Wound Resistor 275 Megohm Carbon Potentiometer tapped at 40K. Ohms DP.ST. switch attached to housing 20% 28. No. 1 IF. Transformer 455 Kc/s. 29. No. 2 IF. Transformer 455 Kc/s. 30. Antenna Transformer 31. 8MMF. Cond. part of Ant. Trans. 32. Oscl. Coil 33. { Power Transformer 200-250V. 50 cycle Power Transformer 200-260V. 40 cycle Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb 35. Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. attached 36. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) 37. On/off switch - part of circuit No. 27.) Ohm Carbon Resistor		ĩ Watt	PR225
25 Ohm Wire Wound Resistor 10% ½ Watt 15 Megohm Carbon Potentiometer tapped at 40K. Ohms DP.ST. switch attached to housing 20% 20% 20% 20% 20% 20% 20% 20		Ohm Carbon Resistor	10%	l Watt	PR295
275 Megohm Carbon Potentiometer tapped at 40K. Ohms DP.ST. switch attached to housing 20% 20% 20% 20% 20% 20% 20% 20% 20% 20%	5.2500	am Carbon Resistor	10%	🚽 Watt	PR259
tapped at 40K. Ohms DP.ST. switch attached to housing 20% 28. No. 1 IF. Transformer 455 Kc/s. 29. No. 2 IF. Transformer 455 Kc/s. 30. Antenna Transformer 31. 8MMF. Cond. part of Ant. Trans. 32. Oscl. Coil 33. \[\int \text{Power Transformer 200-250V. 50 cycle} \\ \int \text{Power Transformer 200-260V. 40 cycle} \\ \int \text{Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb} \\ \text{55. Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. attached} \\ \text{66. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve)} \\ \text{57. On/off switch - part of circuit No. 27.} \end{array}		n Wire Wound Resistor	10%	🚽 Watt	PR281
switch attached to housing 20% 88. No. 1 IF. Transformer 455 Kc/s. 99. No. 2 IF. Transformer 455 Kc/s. 60. Antenna Transformer 61. 8MMF. Cond. part of Ant. Trans. 62. Oscl. Coil 63. { Power Transformer 200-250V. 50 cycle }					
No. 1 IF. Transformer 455 Kc/s. No. 2 IF. Transformer 455 Kc/s. Antenna Transformer MMF. Cond. part of Ant. Trans. Coscl. Coil Power Transformer 200-250V. 50 cycle Power Transformer 200-260V. 40 cycle Lial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. attached Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) On/off switch - part of circuit No. 27.	tapped	i at 40K. Ohms DP.ST.			
No. 2 IF. Transformer 455 Kc/s. Antenna Transformer S1. 8MMF. Cond. part of Ant. Trans. C2. Oscl. Coil S3. { Power Transformer 200-250V. 50 cycle { Power Transformer 200-260V. 40 cycle } Power Transformer 200-260V. 40 cycle Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb S5. Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. attached S6. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) C97. On/off switch - part of circuit No. 27.	switch	attached to housing	20%		PR738
30. Antenna Transformer 31. 8MMF. Cond. part of Ant. Trans. 32. Oscl. Coil 33.	3. No. 1	IF. Transformer 455 Kc/s.			PT869
 8MMF. Cond. part of Ant. Trans. Oscl. Coil Fower Transformer 200-250V. 50 cycle Power Transformer 200-260V. 40 cycle Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. attached Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) On/off switch - part of circuit No. 27. 					PT869
32. Oscl. Coil 33. { Power Transformer 200-250V. 50 cycle Power Transformer 200-260V. 40 cycle 44. Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb 55. Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. attached 66. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) 67. On/off switch - part of circuit No. 27.					PT905
Power Transformer 200-250V. 50 cycle Power Transformer 200-260V. 40 cycle 4. Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. attached Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) On/off switch - part of circuit No. 27.					PC832
Power Transformer 200-260V. 40 cycle 34. Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb 35. Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. attached 36. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) 37. On/off switch - part of circuit No. 27.			٦		PT859
Dial Lamp 6-8V. 0.25 Amp. Min. screw base T 3 1/4 size bulb Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. attached Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) On/off switch - part of circuit No. 27.		on Transformer 200-250V. 50 cyc	Σte		PT938
35. Speaker 5" Permag. with 5,500-3.7 Ohms imped. input trans. attached 36. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) 37. On/off switch - part of circuit No. 27.	POWE T Dial T	arm 6 9V 0 05 Ame Nin	:10 :1:-	4	PT939
attached 36. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) 37. On/off switch - part of circuit No. 27.		Jamp 0-0v. U.25 Amp. Min. screw	pase T 5 1/	4 Size bulb	PM678
66. Input trans. 5,500-3.7 Ohms imped. code No. EDB64 Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) 67. On/off switch - part of circuit No. 27.	ottool	or 5" Permag. with 5,500-5.7 Un	ms impea. in	put trans.	77.7.07
Valve Socket-8 pin Valve Shield-ST12 bulb (6U7G valve) 7. On/off switch - part of circuit No. 27.			ada Na EDRA	A :	K183
Valve Shield-ST12 bulb (6U7G valve) 7. On/off switch - part of circuit No. 27.	Valvo	Socket 8 pin	ode No. FDBO	4	PT930
57. On/off switch - part of circuit No. 27.	Valve	Shield_STIP bulb (607C reluc)			PM532
<u>Description</u> <u>Par</u>	7. On/off	switch - part of circuit No.	27.		PM217
<u>Description</u> <u>Par</u>	•	-			
	Descri	ption			Part No.
Talve Socket-7 pin Alc Perminal Strip-3 lug					Al04/58

Description		Part No.
Valve Socket-7 pin Terminal Strip-3 lug Terminal Strip-5 lug Terminal Strip-2 lug Earth Contact for valve shield Rubber Band for valve shield Rubber Grommet on power cord Clip IF trans mount Clip-coil mount	•	A104/58 A103/509 A567/30C A107/30A 22/30C 1/564-8 40/30C 7/670 6/622

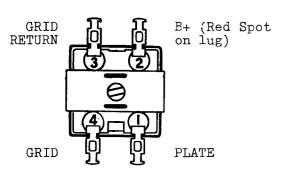
Description				
Dial Cord Dial Reading Dial Lamp Socket Assy. Valve Grid Clip Antenna Wire Tuning and Volume Knob Spring Dial Pointer Assy. Dial Cord Tension Spring				
Cabinet Back				
Screws-Chassis to cabinet 1/4" x 1/8" R.H. Whit. Washers-on chassis mount screws				
Washers-between chassis and cabinet back				
Felt Washers-on control shafts-brown Felt Washers-on control shafts-white				
Dial Pulley - Wood 5/8" dia. Dial Pulley - Wood 3/4" dia.				

ANTENNA TRANS.



Dial Pulley - Brass

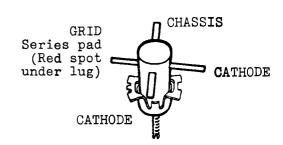
1st IF. TRANS.



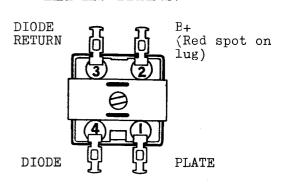
OSCL. COIL

Part No. 34/754 37/640-2 A140/30C 873/495 WM195 86/71 A105/640 73/239-1 32/640-1 10/560-4 249/239-1 70/30C 66/30C 66/30C-1 **1**3/613 17/87

23/71



2nd IF. TRANS.



BULLETIN: PM-1. FILE: Receivers AC. DATE:7/8/52. PAGE: 3.

Opera- Generator Generator Dummy tion Connection Frequency Antenna No.				Instructions	
6.	To antenna junction lug on chassis	1400 Kc/s.	200MMF. Mica capacitor in series with generator	Turn cond. gang and dial pointer until centre of dial pointer aligns with centre of 1400Kc/s. spot on dial reading. Adjust oscl. coil trim condenser for logging and peak antenna trans. trim. condenser for max. output.	
7.	To antenna junction lug on chassis	600 Kc/s.	200MMF. Mica capacitor in series with generator	Turn cond. gang and dial pointer until centre of dial pointer aligns with centre of 600Kc/s. spot on dial reading. Leave the gang and pointer set in this position. Re-peak oscl. coil ind. trim. (iron core) and then peak the antenna trans. ind. trim. (iron core) for max. output. Do not rock the gang or dial pointer to and fro through the signal while adjusting or move them until after the inductance trimmer (iron core) of both of these transformers as been peaked for max. output.	
8.	To antenna junction lug on chassis	1400 Kc/s.	200MMF. Mica capacitor in series with generator	Turn cond. gang and dial pointer until centre of dial pointer aligns with centre of 1400Kc/s. spot on dial reading. Adjust osc. coil trim. condenser for logging and re-peak antenna trans. trim. condenser for max. output.	

Tuning range after alignment: 535-1640 Kc/s.

STYLING LIST

Cabinet Knob	WALNUT CABINET 17/628-1 Walnut 22/81-4 Walnut	IVORY CABINET 17/628-5 Ivory 22/81-6 Champagne	MARBLE IVORY CAB. 17/628-9 Marble Ivory 22/81-6 Champagne
	GREEN CABINET	CHINESE RED CABINET	AMBER CABINET
Cabinet Knob	17/628-2 Green 22/81-3 Green	17/628-6 Chinese Red 22/81-4 Walnut	17/628-10 Amber 22/81-8 Amber
	BLUE CABINET	MAHOGANY CABINET	AUST. WHITE CAB.
Cabinet Knob	17/628-3 Blue 22/81-7 Blue	17/628-7 Mahogany 22/81-4 Walnut	17/628-11 Aust. White 22/81-5 White
	CHAMPAGNE CABINET	MARBLE CHAMP. CAB.	WINE CABINET
Cabinet Knob	17/628-4 Champagne 22/81-6 Champagne	17/628-8 Marble Champ 22/81-6 Champagne	. 17/628-12 Wine 22/81-11 Wine