

TECHNICAL INFORMATION
COVERING
PACEMAKER BROADCAST RECEIVER
MANUFACTURED BY COLLIER & BEALE LTD.

POWER SUPPLY—230 v. A.C. Rating 60 watts.

TUBES (seven): 6BE6 Converter, 6BA6 I.F. Amp., 6AV6 Det. A.F. Amp,

6AV6, A.F. Amp., 2 x EL84 Output. EZ81 Rect.

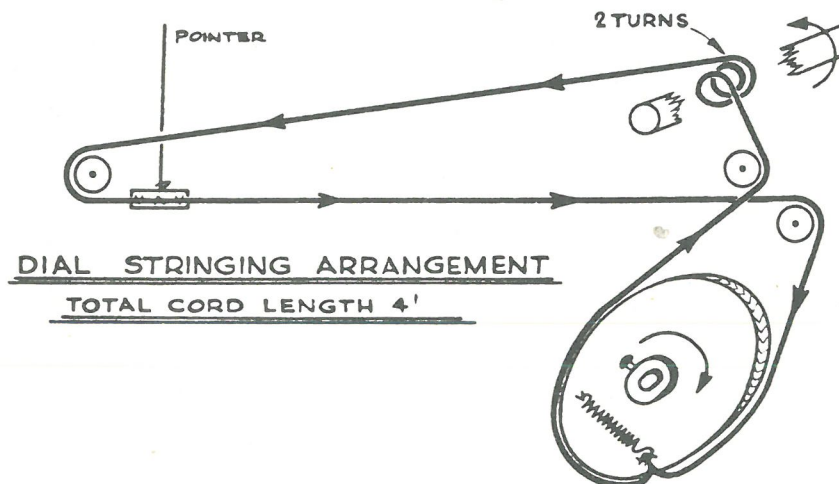
TUNING RANGE—Broadcast, 535-1605 k.c.

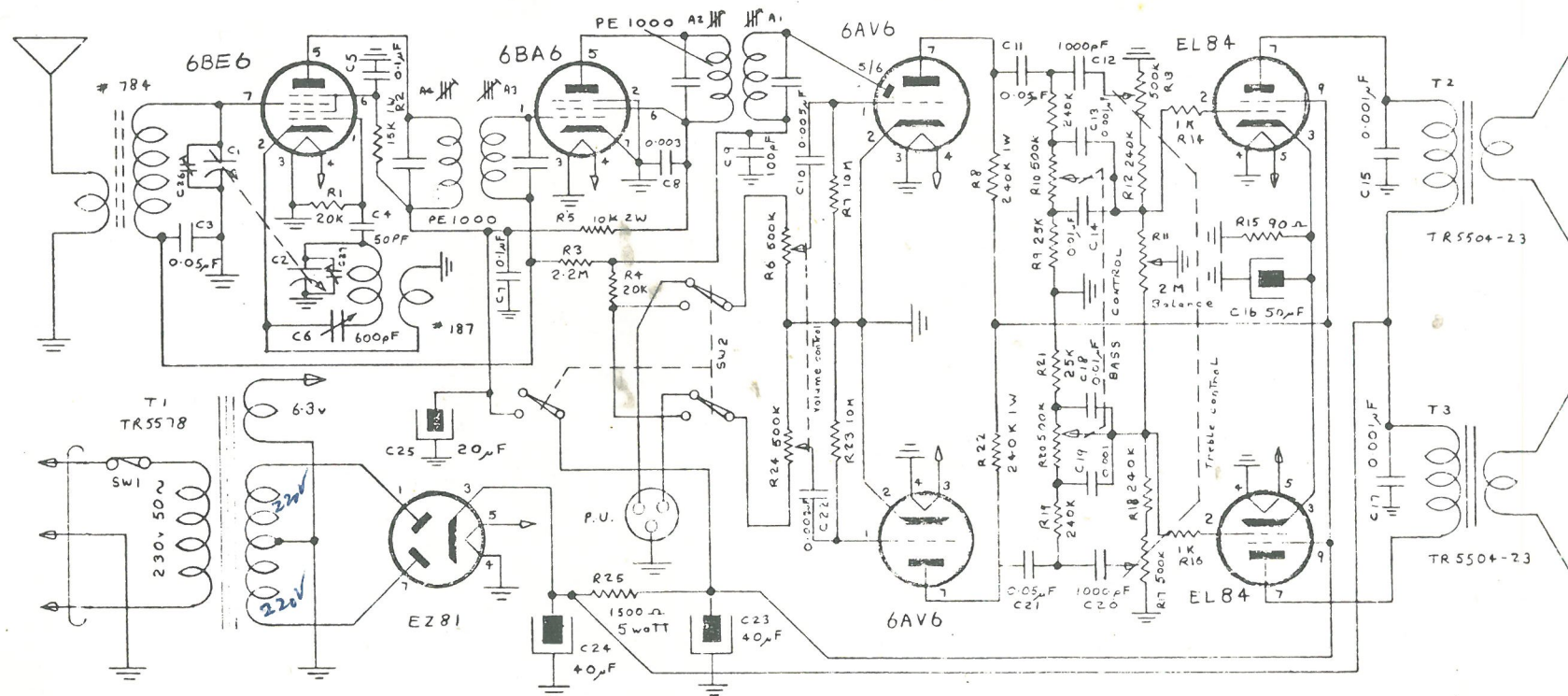
ALIGNMENT INSTRUCTIONS

To set pointer, fully mesh condenser and set pointer at last reference mark at left end of dial. Set volume control at maximum and keep output from signal generator no higher than necessary to obtain output readings. Use insulated alignment tool for adjusting.

Dummy Antenna	Signal Generator Coupling	Sig. Gen. Frequency	Band Switch Position	Radio Dial Setting	Output Meter	Adjust	Remarks
0.1 μ f.	High Side to pin No. 7 (grid) of 6BE6.	455 Kc.	BC	High freq. end	Across voice coil	A1, A2, A3, A4, C27	Adjust for maximum output
R.M.A. Standard	High side to ant. terminal	1400 Kc.	"	1400 Kc.	"	C22, C26	" "
"	"	1400 Kc.	"	1400 Kc.	"	C6	" "
"	"	600 Kc.	"	Rock Variable	"		" "

CAPACITORS			MISCELLANEOUS			RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.	Ref. No.	Res.	Watts
C1-C2	Polar C90-02/1 (351 pF Swing)		784	20 ohm	2.7 ohm	R1-R4	20 K	1/2
C3	0.05 μ F.	125 V.	187	0.25 ohm	2.44 ohm	R2	15 K	1
C4	50 pF.	Ceramic	PE 1000	14.5 ohm	13.5 ohm	R3	2.2 M	1/2
C5-C7	0.1 μ F.	400 V.	TR 5578	Volts:230 Volts 225 a side		R5	10 K	2 W
C6	500 pF.	Padder	SW1	SPST on R6-R24		R6-R24	500 K/500 K	Pot.
C8	0.003 μ F.	Ceramic	SW 2	2 pos. 3 Bank		R7-R23	10 M	1/2
C9	100 pF.	Ceramic		Rotary Switch		R8-R22	240 K	1
C10-C22	0.005 μ F.	Ceramic	LA1	6.3 V. 0.3 amp		R9-R21	25 K	1/2
C11-C21	0.05 μ F.	400 V.	LA2	M.E.S. Tub. Lamp		R10-R20	500 K/500 K	Pot.
C12-C13	1000 pF.	Ceramic				R11	2 M	Pot.
C15-C17						R12-R18	240 K	1/2
C19-C20						R13-R17	500 K/500 K	Pot.
C16	50 μ F.	12 V.				R14-R16	1 K	1/2
C23-C24	40 μ F.	350 V.				R15	90 ohm	2
C25	20 μ F.	350 V.				R25	1500 ohm	5
C26	trimmers on							
C27								





Schematic Diagram Model "PATINA"

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
Conv.	6BE6	—	—	—	6.1 AC	200	110			
I.F.	6BA6	—	—	—	6.1 AC	90	90	—		
Det.	6AV6	—	—	—	6.1 AC	—	—	90		
A.F. Amp.	6AV6	—	—	—	6.1 AC	—	—	90		
Output	EL84	—	—	5.5	—	6.1 AC	—	235	—	200
Rectifier	EZ81	220 AC	—	250	—	6.1 AC	—	220 AC	—	—

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
Conv.	6BE6	20 K	—	—	—	501 K	515 K	2.5 M		
I.F.	6BA6	2.5 M	—	—	—	510 K	510 K	—		
Det.	6AV6	10 M	—	—	—	270 K	270 K	740 K		
A.F. Amp.	6AV6	10 M	—	—	—	270 K	270 K	740 K		
Output	EL84	—	*	90 ohm	—	—	—	500 K	—	500 K
Rectifier	EZ81	70 ohm	—	500 K	—	—	—	70 ohm	—	—

1. D.C. voltage measurements are at 20,000 ohms per volt—A.C. voltage measurements at 5,000 ohms per volt.

2. Socket connections are shown as bottom views.

3. Measured values are from socket pin to chassis. Band Switch in Broadcast position.

4. Nominal tolerances on component values make possible a variation of $\pm 10\%$ in voltage and resistance readings.

5. Volume control at maximum, no signal applied for voltage measurements.

6. Resistance readings in B+ circuits may vary widely according to condition of filter capacitors.

*Dependent on balance control setting.

PATINA

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