

**MODELS. BOSTON, BRENTWOOD  
BROCTON AND BROOKLYN**  
DISTRIBUTED BY H.W. CLARKE (N.Z.) LTD.

**TECHNICAL INFORMATION**

**COVERING**

**PACEMAKER BROADCAST RECEIVERS**

**MANUFACTURED BY COLLIER & BEALE LTD.**

**TYPE SET** — A.C. Superheterodyne. Mantel set, console and table radiograms.

**TUBES** (Five) — 6BE6 Converter, 6BA6 I.F. Amp., 6AV6 Det.-A.F., 6AQ5 Power Output, 6X4 Rectifier.

**POWER SUPPLY** — 230 v. A.C. Rating 25 watts.

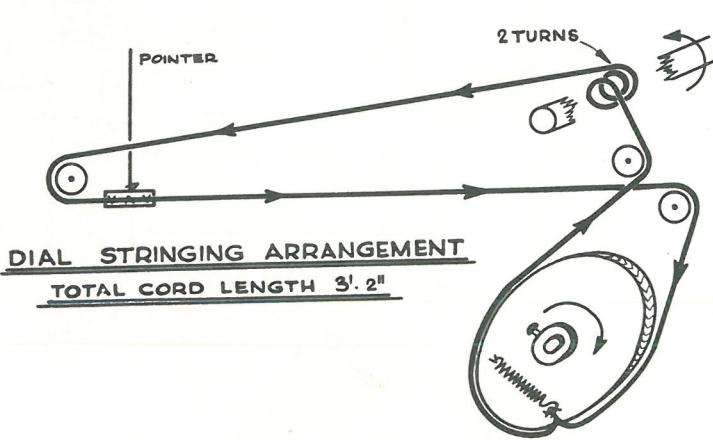
**TUNING RANGE** — Broadcast, 535-1530 kc.

**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		Radio Dial Setting	Output Meter	Adjust	Remarks
0.1 $\mu$ fd. R.M.A. Standard	High Side to pin No. 7 (grid) of 6BE6. High side to ant. terminal	455 Kc. 1400 Kc. 1400 Kc.		High freq. end 1400 Kc. 1400 Kc..	Across voice coil " " " "	A1, A2, A3, A4. C17 C18	Adjust for maximum output " " "

CAPACITORS			MISCELLANEOUS			RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.	Ref. No.	Res.	Watts
C1-A-B	50 $\mu$ fd.	250	E80	14 ohm	14 ohm	R1	10 meg	$\frac{1}{2}$ watt
C1-C	10 $\mu$ fd.	250	784	20 ohm	2.70hm	R2	2 meg	$\frac{1}{2}$ watt
C2	25 $\mu$ fd.	25	187	0.25 ohm	2.44ohm	R3	500K	Pot
C3	0.25 $\mu$ fd.	350				R4	500K	Pot
C4	0.05 $\mu$ fd.	"	TR5571-2	Volts	230	R5	500K	$\frac{1}{2}$ watt
C5	0.02 $\mu$ fd.	"		Res.	175/175	R6	100K	$\frac{1}{2}$ watt
C6-7	0.01 $\mu$ fd.	Ceramic		Type	6.3	R7	100K	$\frac{1}{2}$ watt
C8-9	0.005 $\mu$ fd.	"	SP1*	5 x 7 PM	5000 ohm	R8	50K	$\frac{1}{2}$ watt
C10	0.005 $\mu$ fd.	350	S1	SPST attached to R4		R9	50K	1 watt
C11	0.003 $\mu$ fd.	mica	S2	DPDT Gram switch		R10	20K	$\frac{1}{2}$ watt
C12	500 $\mu$ fd.	"	CV	Polar C90-02/1 (swing 351 $\mu$ fd.)		R11	10K	$\frac{1}{2}$ watt
C13	362 $\mu$ fd.	Sil.mica	P.L.	6.5 v.0.3 amp. M.E.S. tub. lamp		R12	7K	$\frac{1}{2}$ watt
C14	250 $\mu$ fd.	mica				R13	5K	$\frac{1}{2}$ watt
C15	100 $\mu$ fd.	ceramic				R14	3K	1 watt
C16	50 $\mu$ fd.	"				R15	500 ohm	$\frac{1}{2}$ watt
C17-18	3-30 $\mu$ fd.	trimmer				R16	300 ohm	1 watt
C19	5 $\mu$ fd.	ceramic				R17	6 ohm	1 watt



**BASS COMPENSATION**

Bass compensation has been achieved by the combination of values chosen for the plate-feed circuit (R6 R9 C5) of the 6AV6 stage.

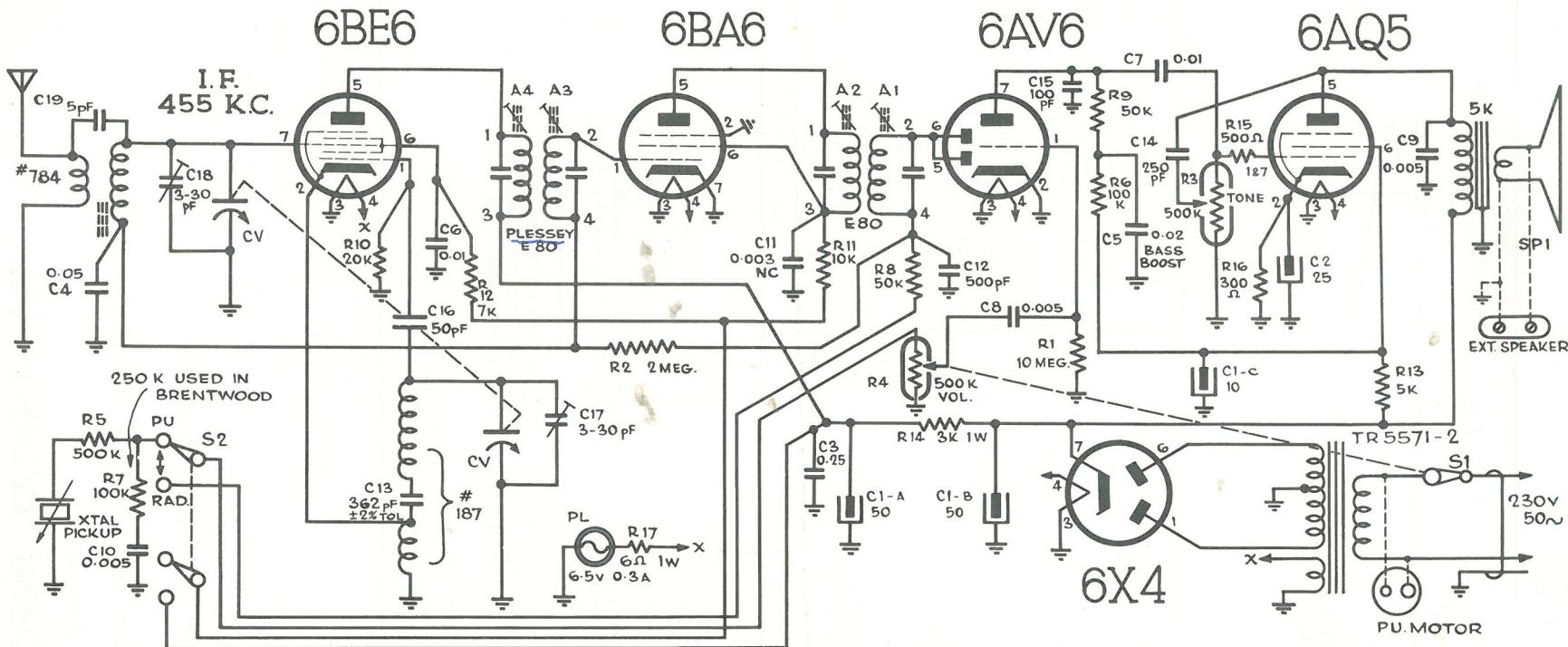
The change of reactance of C5 with frequency, modifies the effective plate-load impedance presented to the tube.

This results in a greater gain as the frequency is reduced.

(illust to "Brooklyn road")

600/1/57

140



## MODELS. BOSTON, BRENTWOOD, BROCTON AND BROOKLYN.

### VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	6BE6	—	—	—	6.3	124	73	—	—
I.F.	6BA6	—	—	—	6.3	57	57	—	—
Det-A.F.	6AV6	—	—	—	6.3	—	85	—	—
Output	6AQ5	—	7	—	6.3	148	159	157	156
Rect.	6X4	157	—	—	6.3	—	—	—	—

1. D.C. voltage measurements are at 20,000 ohms per volt—A.C. voltage measurements at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to chassis.

### RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	6BE6	20K	0.25	—	—	503K	507K	2.5 meg	—
I.F.	6BA6	2.5 meg.	—	—	—	510K	510K	—	—
Det-A.F.	6AV6	10	—	—	—	550K	550K	653K	—
Output	6AQ5	600K	300	—	—	500K	505K	500K	500K
Rect.	6X4	220	—	—	—	—	220	—	—

4. Nominal tolerance 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.

BOSTON  
BROCKTON

BRENTWOOD  
BROOKLYN

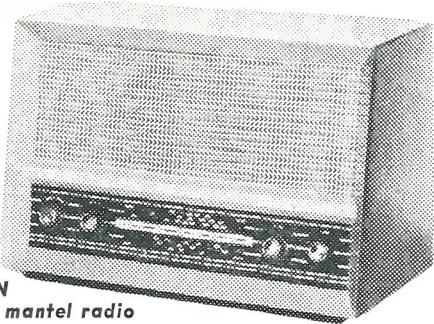
Jan 1957



1957  
S/B 140

**BRENTWOOD**  
5-valve Console  
radiogram

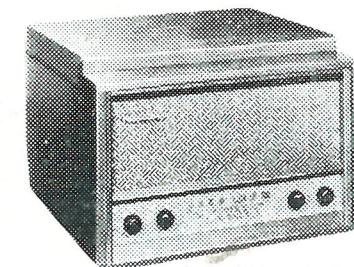
Attractive honey oak cabinet, illuminated multi-colour dial. Collaro 4-speed gram unit with Ronette OV pick-up. Rola 12-inch speaker. Retail price £69/19/6.



1957  
S/B 140

**BOSTON**  
5-valve mantel radio

A little charmer sure to win many of your customers' hearts. Two-tone walnut and tawa cabinet, neat and efficient styling. Terminals for extension speaker and gram player. Clean, easily read full length dial. Retail price £25/17/6.



1957  
S/B 140

**BROCTON**  
5-valve  
table  
radiogram

Contemporary styled cabinet in honey and dark oak, with Collaro 4-speed gram unit, full vision multi-coloured dial. Also the BROOKLYN—conservatively styled but identical in performance. Both retail at £47/7/6.