

MODEL 'BRISTOL' *Gram*

also Pageant & Granada

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Jan 1958

TECHNICAL INFORMATION COVERING PACEMAKER BROADCAST RECEIVERS

MANUFACTURED BY COLLIER & BEALE Ltd.

TYPE SET - A.C. Superheterodyne.

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

POWER SUPPLY—230 v. A.C. Rating 30 watts.

Output, 6x4 Rectifier.

TUNING RANGE—Broadcast, 535-1530 kc.

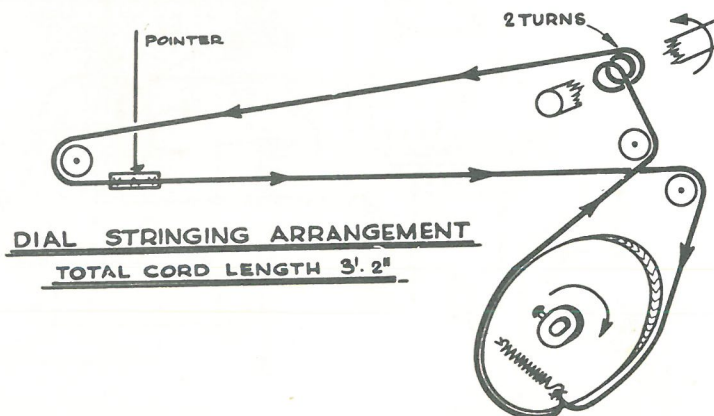
ALIGNMENT INSTRUCTIONS

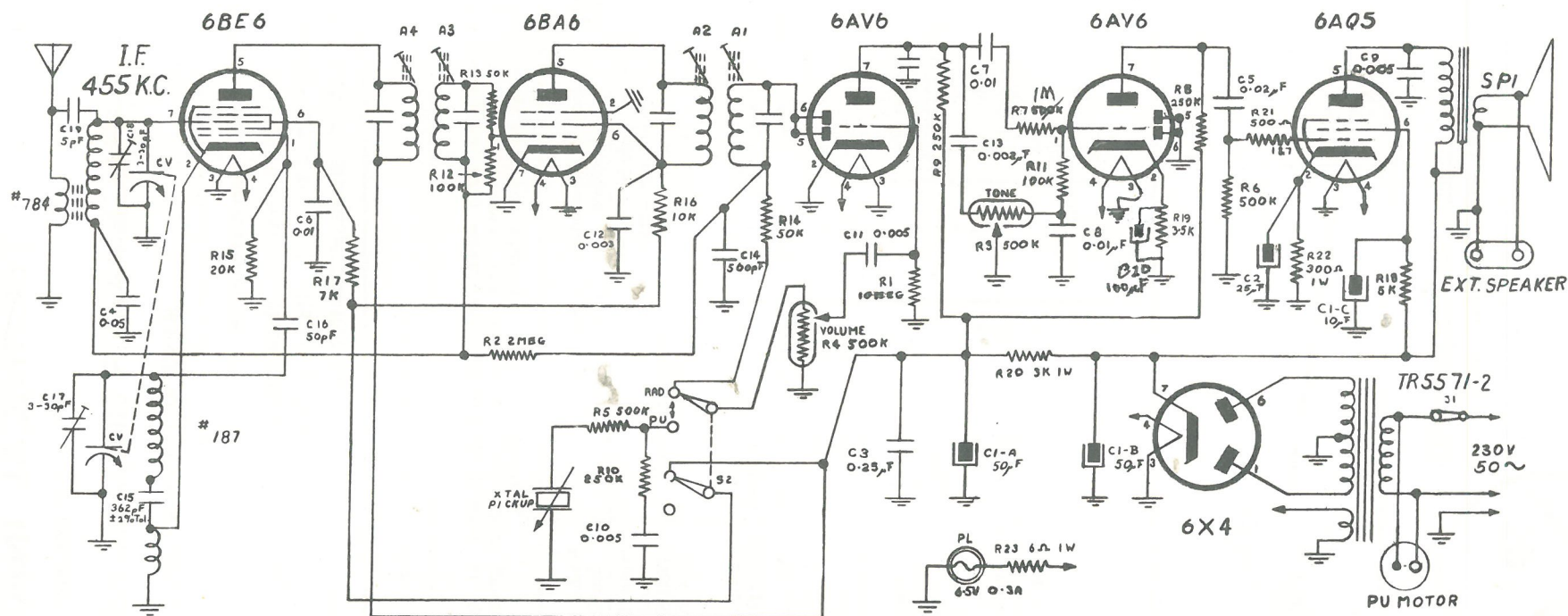
To set pointer, fully mesh condenser and set pointer at last reference mark at left end of dial. Set volume control at maximum and keep output from signal generator no higher than necessary to obtain output readings. Use insulated alignment tool for adjusting.

Dummy Antenna	Signal Generator Coupling	Sig. Gen. Frequency		Radio Dial Setting	Output Meter	Adjust	Remarks
0.1 μ 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 μ fd.	250	E80	14 ohm	14 ohm	R1	10 meg	$\frac{1}{2}$ watt
C1-C	10 μ fd.	250	784	20 ohm	2.7ohm	R2	2 meg	$\frac{1}{2}$ watt
C2	25 μ fd.	25	187	0.25 ohm	2.44ohm	R3	500 K	Pot
C3	0.25 μ fd.	350				R4	500 K	Pot
C4	0.05 μ fd.	"		Volts	Volts	R5-6-7	500 K	$\frac{1}{2}$ watt
C5	0.02 μ fd.	"	TR5571-2	230	175/175	R8-9-10	250 K	$\frac{1}{2}$ watt
C6-7-8	0.01 μ fd.	Ceramic		Type	Transformer	R11/12	100 K	$\frac{1}{2}$ watt
C9	0.005 μ fd.	"	SP1	12" PM	5000 ohm	R13-14	50 K	$\frac{1}{2}$ watt
C10	0.005 μ fd.	350	S1	SPST attached to R4		R15	20 K	1 watt
C11	0.005 μ fd.	"	S2	DPDT Gram switch		R16	10 K	$\frac{1}{2}$ watt
C12	0.003 μ fd.	"	CV	Polar C90-02/1 (swing 351 μ fd.)		R17	7 K	$\frac{1}{2}$ watt
C13	0.002 μ fd.	"	P.L.	6.5 v.0.3 amp. M.E.S. tub. lamp		R18	5 K	$\frac{1}{2}$ watt
C14	500 μ fd.	mica				R19	3.5 K	$\frac{1}{2}$ watt
C15	362 μ fd.	Sil mica				R20	3 K	1 watt
C16	50 μ fd.	mica				R21	500 ohm	$\frac{1}{2}$ watt
C17-18	3 -30 μ fd.	trimmer				R22	300 ohm	1 watt
C19	5 μ fd.	Ceramic				R23	6 ohm	1 watt

*C20 100 μ fd Electro.
added*





R7 now 1 meg
R19 now bypassed with 100uF

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VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	6BE6	—	—	—	6.3	120	85	—	—
I.F.	6BA6	—	—	—	6.3	55	55	—	—
Det-A.F.	6AV6	—	—	—	6.3	—	—	70	—
A.F. Equaliser	6AV6	—	0.8	—	6.3	150	150	60	—
Output	6AQ5	—	7	—	6.3	150	150	—	—
Rectifier	6AV6	155	—	—	6.3	—	155	165	—

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	6BE6	20 K	0.25	—	—	503K	510 K	2.5meg	—
I.F.	6BA6	2.5meg	—	—	—	513 K	513 K	—	—
Det-A.F.	6AV6	10meg	—	—	—	550 K	550 K	653 K	—
A.F. Equaliser	6AV6	350 K	3.5 K	—	—	—	—	753 K	—
Output	6AQ5	500 K	300 ~	—	—	500 K	505 K	500 K	—
Rectifier	6x4	220 ~	—	—	—	—	220 ~	500 K	—

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.

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.

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June 1957