

MODELS 'BISMARCK' & 'BONAVISTA'

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H.W. CLARKE (N.Z.) LTD.

TECHNICAL INFORMATION COVERING BROADCAST RECEIVERS MANUFACTURED BY COLLIER & BEALE LTD.

TYPE SET — A.C. Superheterodyne.

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

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

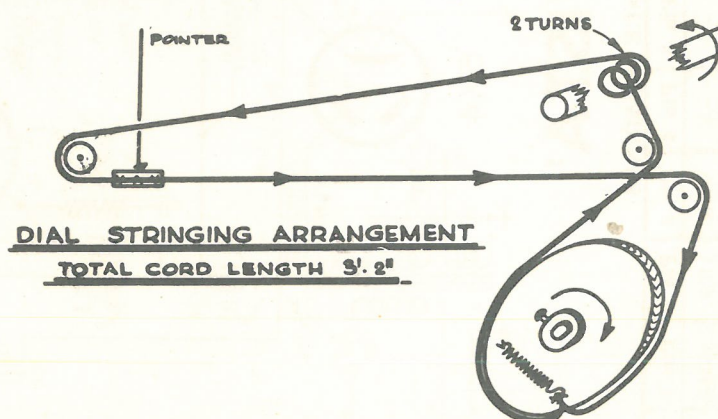
TUNING RANGE—Broadcast, 535-1600 Kc.

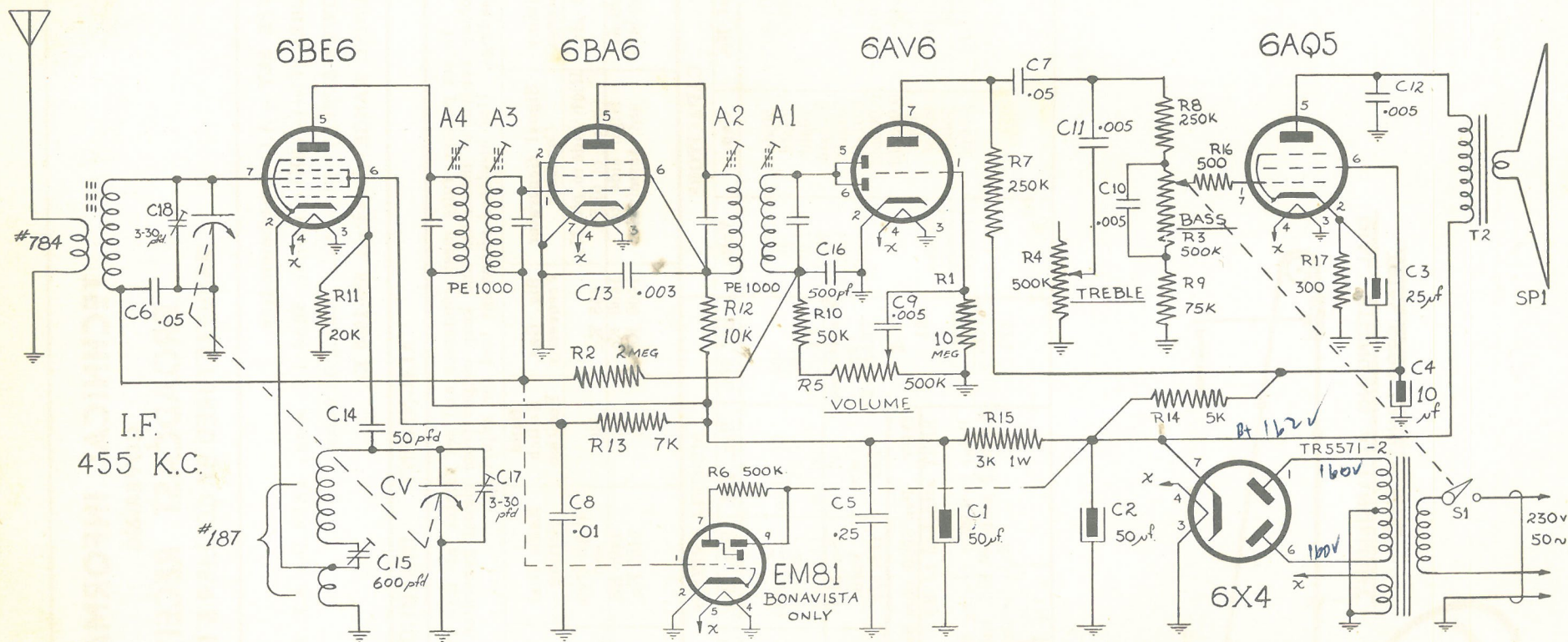
ALIGNMENT INSTRUCTIONS

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	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.	Adjust for maximum output
R.M.A. Standard	High side to ant. terminal	1400 Kc. 1400 Kc.	" "	1400 Kc. 1400 Kc.	" "	C17 C18	" "

CAPACITORS			MISCELLANEOUS				RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.		Ref. No.	Res.	Watts
C1-2	50 μ f	250	784	20 ohm	2.7 ohm		R1	10 Megohm	$\frac{1}{2}$ watt
C3	25 μ f	25	187	0.25 "	2.44 "		R2	2 Meg "	"
C4	10 μ f	250	PE 1000	14.00 ohm	14.00 ohm		R3-5	500 K "	Pot.
C5	0.25 μ f	350	Transformer Type TR5571-2	Pri. Volts: 230	Sec. H.T. Volts: 175/175	Sec. Fil. volt. 6.3	R6	500 K "	$\frac{1}{2}$ watt
C6-7	0.05 μ f	350		Q.P.T. Pri. 5000 ohm Sec. 3.5 ohm			R7-8	250 K "	"
C8	0.01 μ f	Ceramic	T-2	SPST attached to R3			R9	75 K "	"
C9-12	0.005 μ f	"	S1				R10	50 K "	"
C13	0.003 μ f	"	CV P.L. SP1	Polar C90-02/1 (swing 351 μ f.) 6.5 v. 0.3 amp. M.E.S. tub. lamp Rola Speaker: 10 x 3G 'Bonavista' 5 x 7H 'Bismarck'			R11	20 K "	"
C14	50 pf	"					R12	10 K "	"
C15	600 pf	Padder					R13	7 K "	"
C16	500 pf	Ceramic					R14	5 K "	"
C17-18	3-30 pf	Trimmer					R15	3 K "	1 watt
							R16	500 "	$\frac{1}{2}$ watt
							R17	300 "	"





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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	80	—	—
I.F.	6BA6	—	—	—	6.3	60	60	—	—
Det-AF.	6AV6	—	—	—	6.3	—	75	—	—
A.F. Output	6AQ5	—	6.5	—	6.3	155	145	—	—
Rectifier	6X4	160	—	—	6.3	—	160	162	—

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	6BE6	20K	—	—	—	503K	510K	2.55Meg	—
I.F.	6BA6	—	—	—	—	513K	513K	—	—
Det-A.F.	6AV6	10Meg	—	—	—	550K	550K	755K	—
A.F. Output	6AQ5	580K	300Ω	—	—	500K	500K	580K	—
Rectifier	6X4	220Ω	—	—	—	—	220Ω	500K	—

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 + 10% in voltage and resistance readings.

5. Volume control at maximum, no signal applied for voltage measurements. Tone Controls max. bass max. treble.

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

7. Note that EM81 is used in 'Bonavista' only.

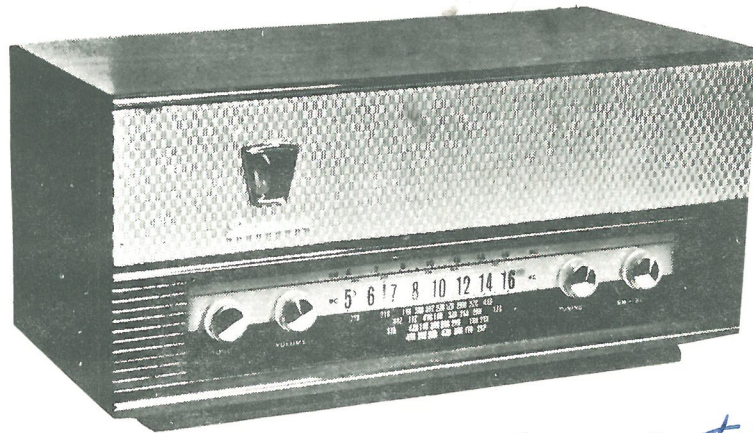
BISMARCK
BONAVISTA

Aug 1960

H. W. CLARKE (N.Z.) LTD.

TRADE

RETAIL



PACEMAKER

BONOVISTA

6 valve Broadcast

(light and dark
mahogany
cabinet)

£30.15. 0

schmidt dated 1968 catalogue 1964