

TECHNICAL INFORMATION

COVERING

BROADCAST RECEIVER TYPE 5155

COLLIER & BEALE Ltd. WELLINGTON.

"PETITE"

TYPE SET—A.C. Superheterodyne. Moulded Bakelite Cabinet.*

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

POWER SUPPLY—230 v. A.C. Rating 28.5 watts. → uses filament transformer only

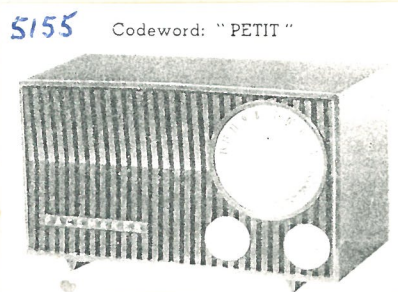
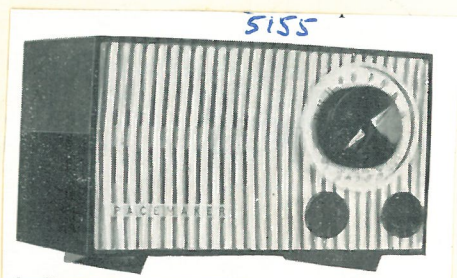
TUNING RANGE—Broadcast 536-1500 Kc/s.

ALIGNMENT INSTRUCTIONS

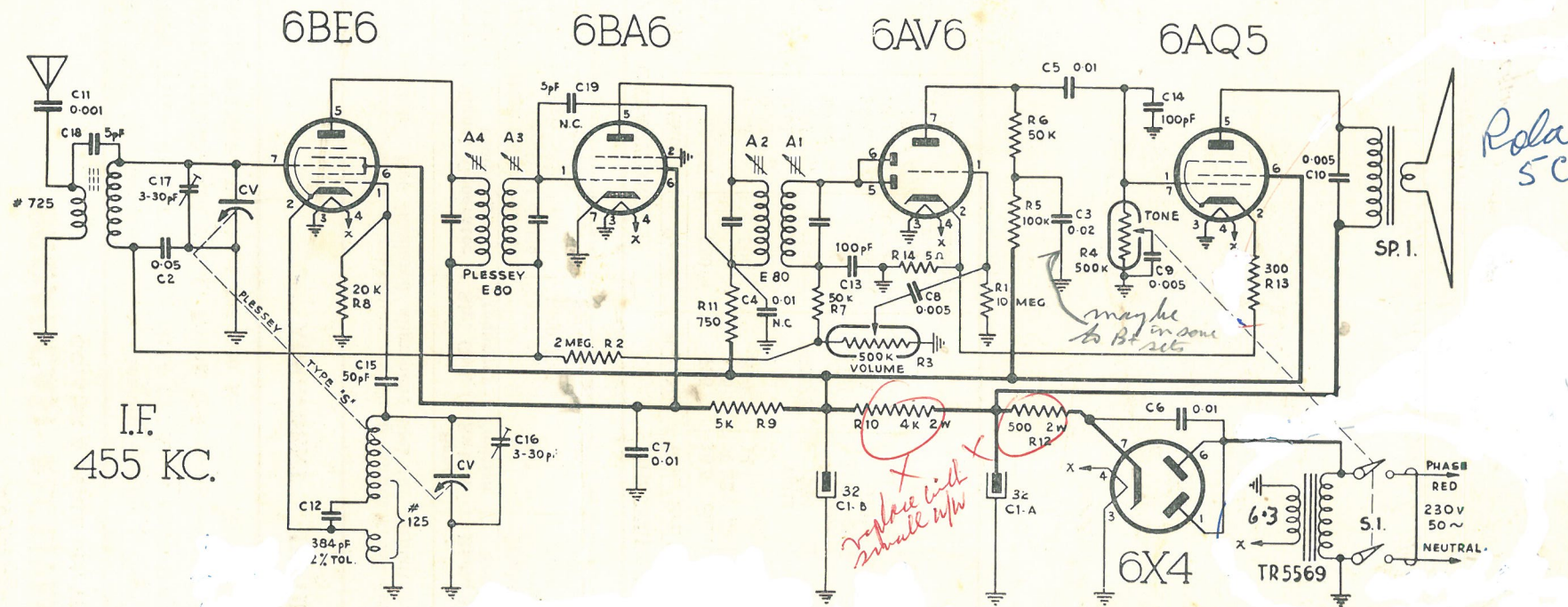
Set volume control at maximum and keep output from signal generator no higher than necessary to obtain output reading. Use insulated alignment tool for adjusting.

Dummy Antenna	Signal Generator Coupling	Sig. Gen. Frequency	Band Switch Position	Radio Dial Setting	Output Meter	Adjust	Remarks
0.1 μ fd.	High side to pin No. 7 (grid) of 6BE6	455 Kc.	BC	High freq. end	Across voice coil	A1, A2.	Adjust for maximum output
R.M.A.	High side to ant. term.	1400 Kc.	"	1400 Kc	"	A3, A4.	" "
Standard		1400 Kc.	"	1400 Kc	"	C16	" "
						C17	" "

CAPACITORS			MISCELLANEOUS				RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.		Ref. No.	Res.	Watts
C1A	32 μ fd.	350	725	16.5 ohm	2.5 ohm	B.C.	R1	10 meg.	$\frac{1}{2}$
C1B	32 "	"	125	0.22 "	2.5 "	"	R2	2 "	"
C2	0.05 "	500	E80	14 "	14 "	I.F.	R3	500K	Pot
C3	0.02 "	"					R4	500K	Pot
C4	0.01 "	"		volts	volts		R5	100K	$\frac{1}{2}$
C5-7	0.01 "	Ceramic	TR5569	230	6.3		R6-7	50K	"
C8-10	0.005 "	"		Type	Transformer		R8	20K	"
C11	0.001 "	"	SP.1	5" P.M.	5000 ohm		R9	5K	"
C12	384 μ fd.	S. Mica	S.1	D.P.S.T. attached to R4.			R10	4K	2
C13-14	100 "	Ceramic	C.V.	Plessey type "S" 392 μ fd.			R11	750	$\frac{1}{2}$
C15	50 "	"		swing.			R12	500	2
C16-17	3-30 "	Trimmer					R13	300	$\frac{1}{2}$
C18-19	5 "	Ceramic					R14		



* Original models had coloured cabinets (area?) which cracked with heat at top. Subsequent issues were black only and had a tinned steel heat deflection on the inside of the cabinet top.



SCHEMATIC DIAGRAM MODEL 5155. "PETITE"

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	6BE6	-8	—	—	6ac	115	73	0	
I.F.	6BA6	0	—	—	"	111	73	—	
Det.-A.F.	6AV6	0	0.1	—	"	0	0	80	
Output	6AQ5	0	5.4	—	"	170	120	0	
Rect.	6X4	230ac	—	—	"	—	230ac	210	

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	6BE6	20K	0.2	—	—	504K	510K	2.5meg.	
I.F.	6BA6	2.5meg.	—	—	—	505K	510K	—	
Det.-A.F.	6AV6	10 meg.	5	—	—	550K	550K	655K	
Output	6AQ5	500K	305	—	—	500K	504K	500K	
Rect.	6X4	225	—	—	—	—	—	500K	

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 frame of gang.

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

5155 "PETITE" *HT supply directly from the mains via a half-wave rectifier*
LT (heater) supply of 6.3-V provided