

TECHNICAL INFORMATION

COVERING

BROADCAST RECEIVER TYPE 6150

COLLIER & BEALE Ltd. WELLINGTON.

June 1952

TYPE SET—A.C. Superhetrodyne.

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

POWER SUPPLY—230 v. A.C. Rating, 40 watts.

TUNING RANGE—Broadcast, 540-1550 k.c.

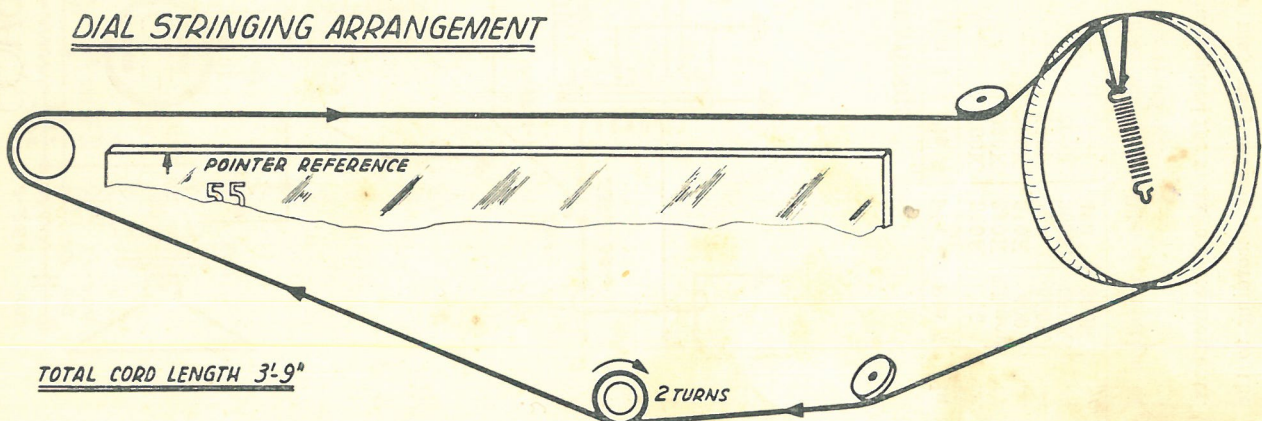
ALIGNMENT INSTRUCTIONS

To set pointer, fully mesh variable 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 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.		High freq. end	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output
R.M.A. Standard	High side to ant. term.	1400 Kc.		1400 Kc.	"	C20	" "
"	"	1400 Kc.		1400 Kc.	"	C21 & C22	" "
"	"	600 Kc.		600 Ks.	"	C15	Rock variable and adjust for max. output. Recheck C20 at 1400 Kc. If C20 is changed recheck C21 and C22.

CAPACITORS			MISCELLANEOUS				RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.	Use	Ref. No.	Res.	Watts
C 1-2	40 + 40 μ fd.	450	784	20 ohm	2.7 ohm		R 1	10 meg.	$\frac{1}{2}$
C 3	25 "	25	489	64 "	2.7 "		R 2	2 "	
C 4	0.1 "	400	187	0.24 "	2.44 "		R 3	500K ohm	Pot.
C 5	0.1 "	"	PE 52	6.5 "	6.5 "		R 4	500K "	"
C 6	0.1 "	"	PE 52	6.5 "	6.5 "		R 5	250K "	$\frac{1}{2}$
C 7	0.1 "	"					R 6	100K "	"
C 8	0.05 "	"		Volts	Volts	Volts	R 7	50K "	"
C 9	0.05 "	"	TR5561-1	230	250 aside	6.3	R 8	50K "	"
C10	0.02 "	"					R 9	25K "	"
C11	0.01 "	600		Type	Transformer		R10	20K "	"
C12	0.005 "	"	SP1	6-9H	5000 ohm		R11	10K "	2
C13	0.004 "	Mica					R12	2K "	$\frac{1}{2}$
C14	0.002 "	"	SW1	S.P.S.T. switch attached to R4			R13	1500 "	5 w.w.
C15	600 μ fd.	Padder	CV	Polar C90-03/1 (swing 351 μ fd.)			R14	1200 "	$\frac{1}{2}$
C16	500 "	Mica					R15	500 "	"
C17-18	100 "	"					R16	400 "	"
C19	50 "	"					R17	300 "	1
C20-22	3-30 "	Trimmer	PL	6.5 v., 0.3 amp tub. M.E.S. lamp			R18	100 "	$\frac{1}{2}$
C23-24	5 "	Ceramic							

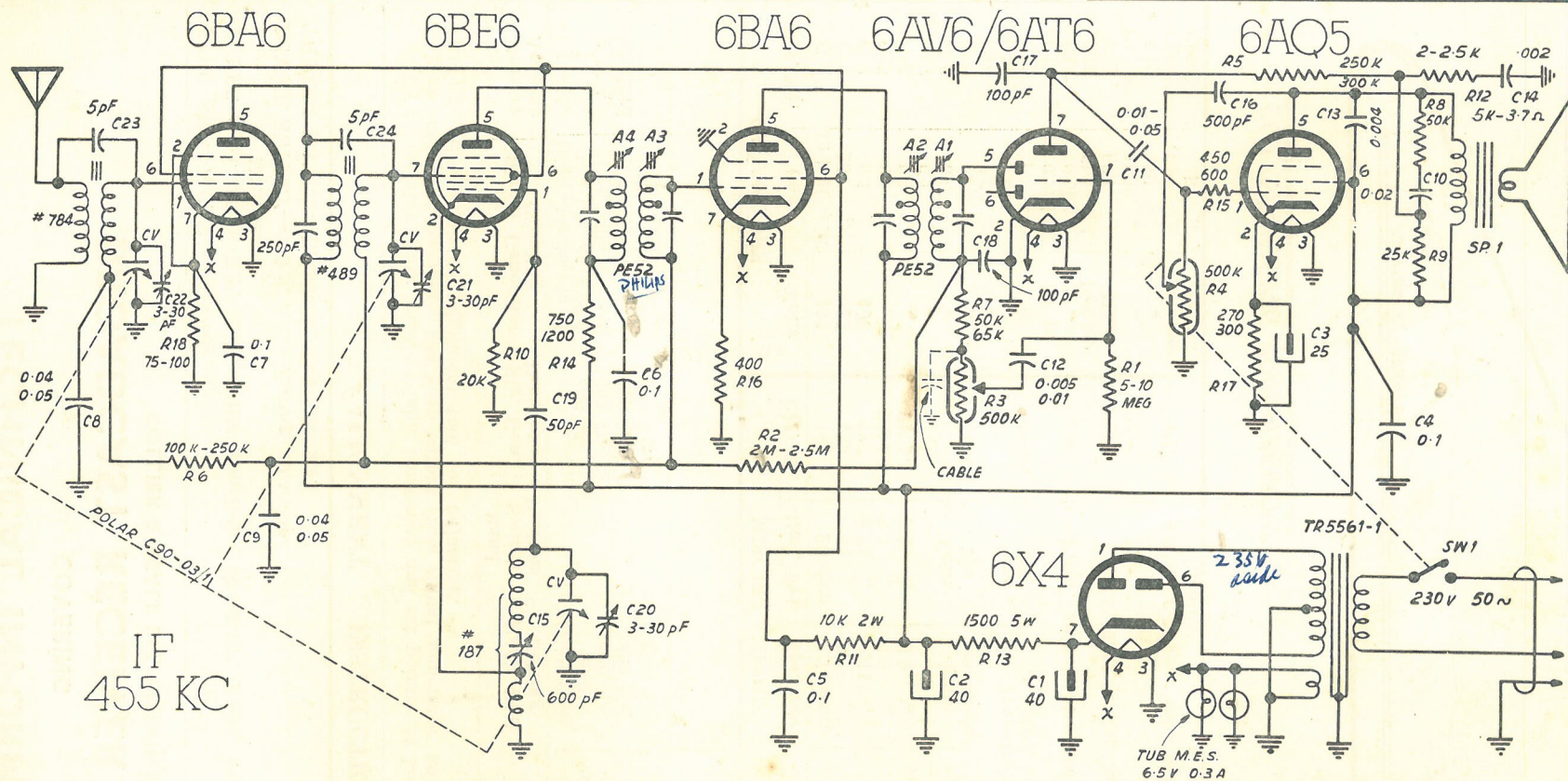
DIAL STRINGING ARRANGEMENT



6V. ← 6150
1-band 1950?

Question: was first model
issued in 1950?

500/6/52/118
JUNE, 1952



SCHEMATIC DIAGRAM MODEL 6150

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	6BA6	0	1	—	6.3AC	165	75	1	—
Conv.	6BE6	—2.5	0	—	—	160	75	0	—
I.F.	6BA6	0	—	—	—	165	75	2.1	—
Det.-A.F.	6AV6	0	—	—	—	0	—	70	—
Output	6AQ5	0	8.5	—	—	155	170	8.5	—
Rect.	6X4	235AC	—	—	—	—	235AC	245	—

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	6BA6	2.6meg.	75	—	—	300K	310K	75	—
Conv.	6BE6	20K	0.24	—	—	300K	310K	2.5meg.	—
I.F.	6BA6	2.5meg.	—	—	—	300K	310K	400	—
Det.-A.F.	6AV6	10meg.	—	—	—	500K	—	550K	—
Output	6AQ5	500K	300	—	—	300K	300K	550K	—
Rect.	6X4	480	—	—	—	—	480	300K	—

1. D.C. voltage measurements are at 2,000 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 common negative (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 the condition of filter capacitors.

6150

June 1952