TECHNICAL INFORMATION MODEL RBA

6 VALVE BROADCAST VIBRATOR 1951

DESIGNED AND MANUFACTURED

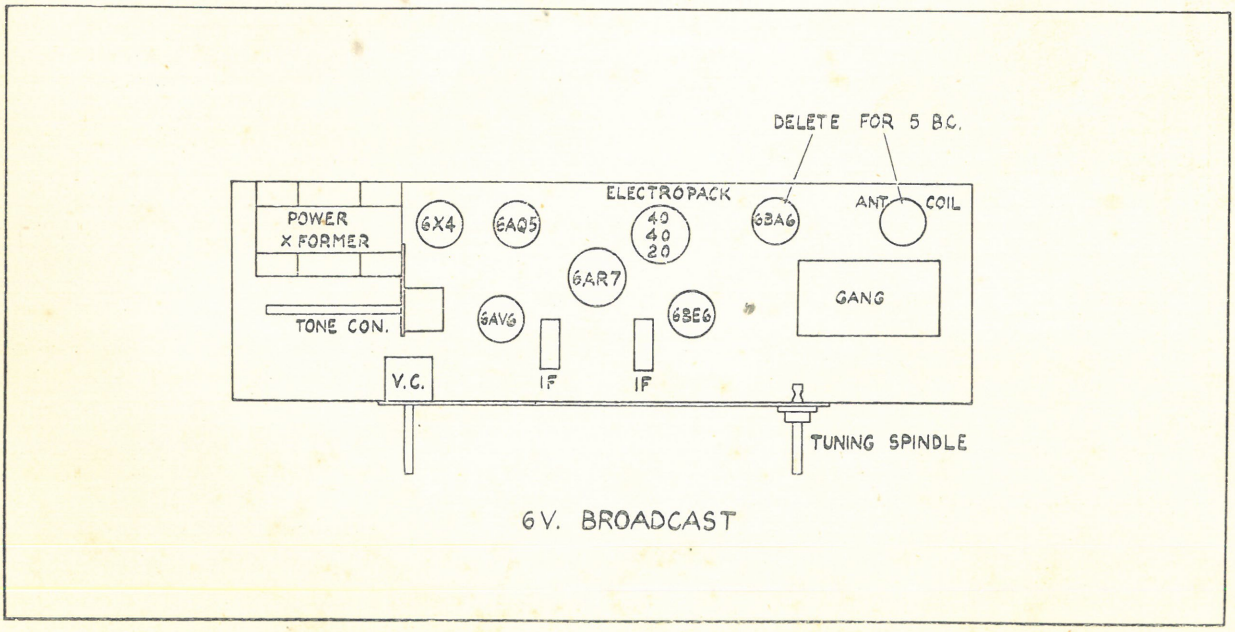
by

RADIO (1936) LTD.

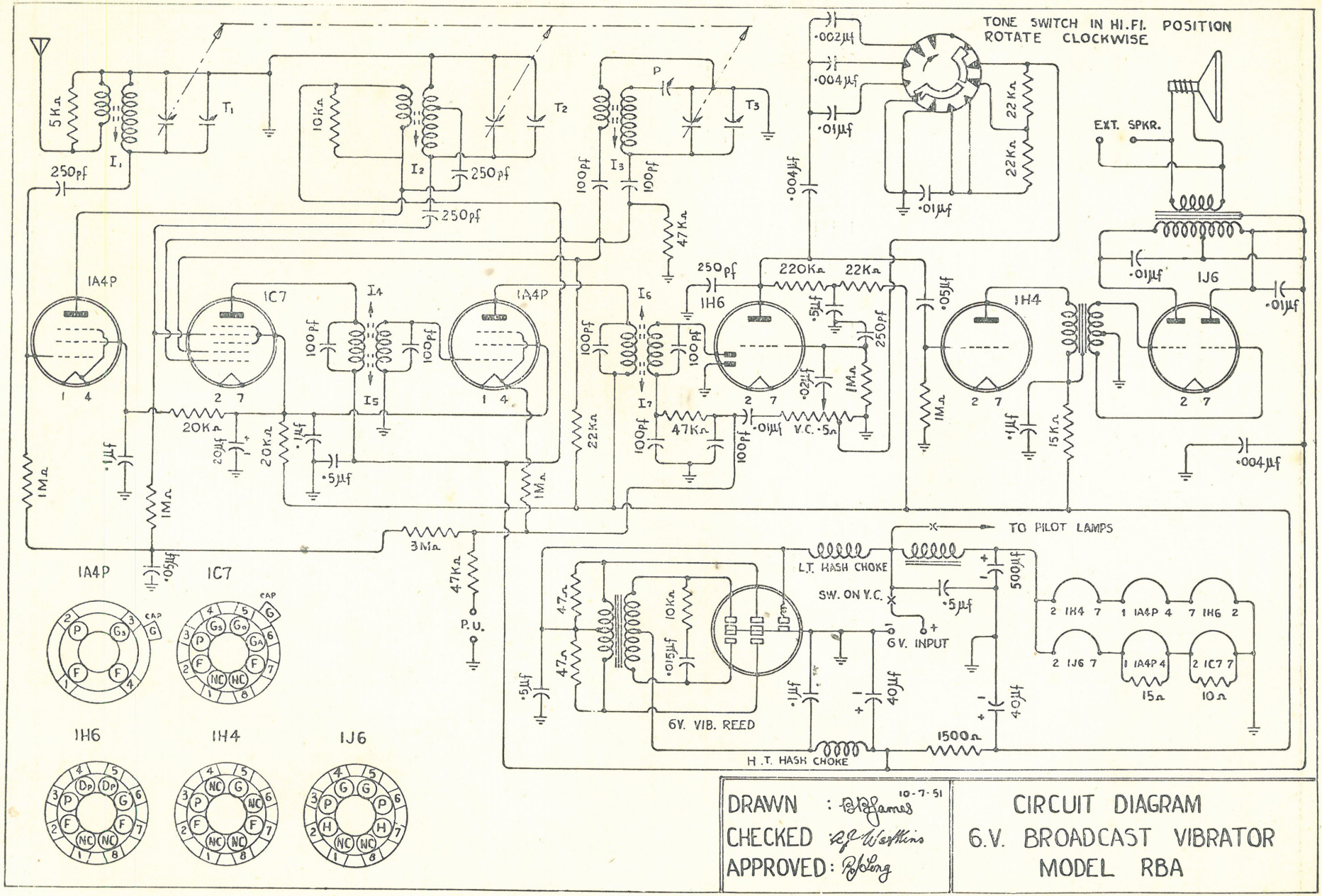
Power Supply	6v. Accumulator	Drain	A.Batt. 1.4 amps. PL's On
Tuning Range	1600KC/S - 550KC/S	Speaker	Rola 8H 10K ohms C.T.
		Power Output	2 watts. approx.
		I.F. Frequency	460KC/S

CIRCUIT DESCRIPTION:

A type 1A4P valve, employed as a tuned R.F. Amplifier, is followed by a Type 1C7G valve, utilized as a Frequency changer, and is coupled to a Type 1A4P valve by means of a high gain double tuned intermediate frequency transformer. A similar transformer couples the type 1A4P valve to a type 1H6 valve, which combines the functions of detection and A.G.C. Source. The type 1H6 valve is capacitively coupled to a Type 1H4 valve utilized as a driver stage, which is transformer coupled to a Type 1J6 valve operating as a Class B Power Amplifier. A synchronous type vibrator reed, in conjunction with a power transformer, resistance and capacitive filter, supplies the high tension D.C. voltage.



6V. BROADCAST


TONE SWITCH IN HI.FI. POSITION
ROTATE CLOCKWISE
EXT. SPKR.
TO PILOT LAMPS
L.T. HASH CHOKE
SW. ON V.C.
6V. INPUT
6V. VIB. REED
H.T. HASH CHOKE
P.U.
1A4P
1C7
1H6
1H4
1J6
DRAWN : R.J.James 10-7-51
CHECKED : R.J.Watkins
APPROVED : R.S.Long
CIRCUIT DIAGRAM
6.V. BROADCAST VIBRATOR
MODEL RBA

VOLTAGES APPEARING BETWEEN VALVE PINS AND CHASSIS FRAME

VALVE PIN No.	1	2	3	4	5	6	7	8
1A4P R.F. Amp.	3.7v. D.C.	155v. D.C.	50v. D.C.	1.8v. D.C.	—	—	—	—
1C7G Freq. Changer	—	1.8v. D.C.	152v. D.C.	65v. D.C.	6.2v. D.C.	73v. D.C.	—	—
1A4P I.F. Amp	3.8v. D.C.	140v. D.C.	65v. D.C.	1.8v. D.C.	—	—	—	—
1H6 Det.-A.F. Amp.	—	—	50v. D.C.	-6v. D.C.	—	—	1.8v. D.C.	50v. D.C.
1H4 Driver	6v. D.C.	5.7v. D.C.	94v. D.C.	—	—	—	3.8v. D.C.	—
1J6 Power Amp.	1v. D.C.	5.7v. D.C.	155v. D.C.	—	—	155v. D.C.	3.7v. D.C.	94v. D.C.

NOTE: D.C. Readings taken with a Vacuum Tube Voltmeter.
Receiver tuned off station.

D.C. RESISTANCES

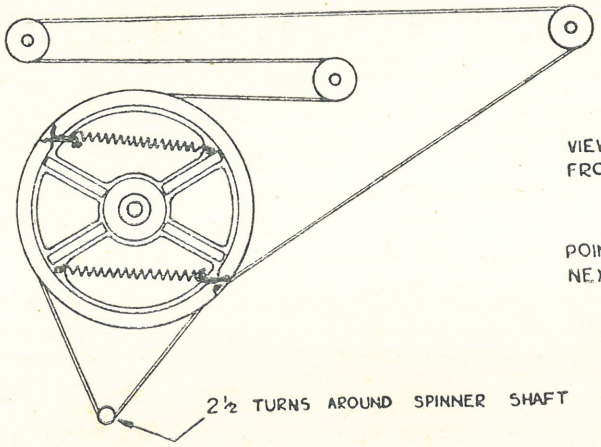
B.C. Ant. Coil Prim.	11ohms.	I.F. Prim.	11.0ohms.
B.C. Ant. Coil Sec.	3.5ohms.	I.F. Sec.	11.0ohms.
B.C. Det. Coil Prim.	10.0ohms.	P.X. Prim.	.3 - .3ohms.
B.C. Det. Coil Sec.	3.5ohms.	P.X. Sec.	120 - 120ohms.
B.C. OSC. Coil Prim.	.9ohms.	O.X. Prim.	300 - 300ohms.
B.C. OSC. Coil Sec.	2.75ohms.	O.X. Sec.	.4ohms.

H.T. Hash Choke	2.3ohms.
L.T. Hash Choke	.25ohms.
L.T. Filter Choke	.5ohms.
Interstage Xformer Prim	800ohms.
Interstage Xformer Sec.	450 - 450ohms

ALIGNMENT INFORMATION:

Adjust Vol. Control for Max. Gain.
Adjust Signal Generator Output to no higher than necessary to obtain output meter readings.

DUMMY ANT.	Generator coupled to	Generator Freq.	Receiver Dial Setting	Adjust	Approx. Sens. for 50MV. Output
.1ufd.	Grid 1A4P (I.F.)	460KC/S	550KC/S	I^6 I^7 for Max.	10K Microvolts
.1ufd.	Grid 1C7G	460KC/S	550KC/S	I^4 I^5 for Max.	120 Microvolts
RMA Standard	Ant.	1400KC/S	OSC. Trimmer T3 for Max.		
"	"	"	ANT. & DET. Trimmers T1 and T2 for Max.		12 Microvolts
"	"	1000KC/S			12 Microvolts
"	"	600KC/S	P1 for Max.		12 Microvolts



VIEW OF DIAL STRINGING LOOKING FROM BACK OF SET

POINTER STRING ON SIDE OF DRUM NEXT TO DIAL BACKPLATE

AMENDMENTS AND REMARKS: