

TECHNICAL INFORMATION MODEL RBK

5 VALVE BROADCAST A.C. 1951

DESIGNED AND MANUFACTURED

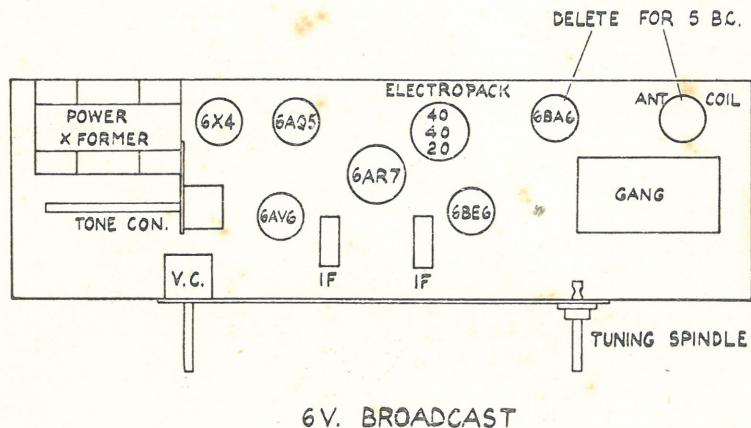
by

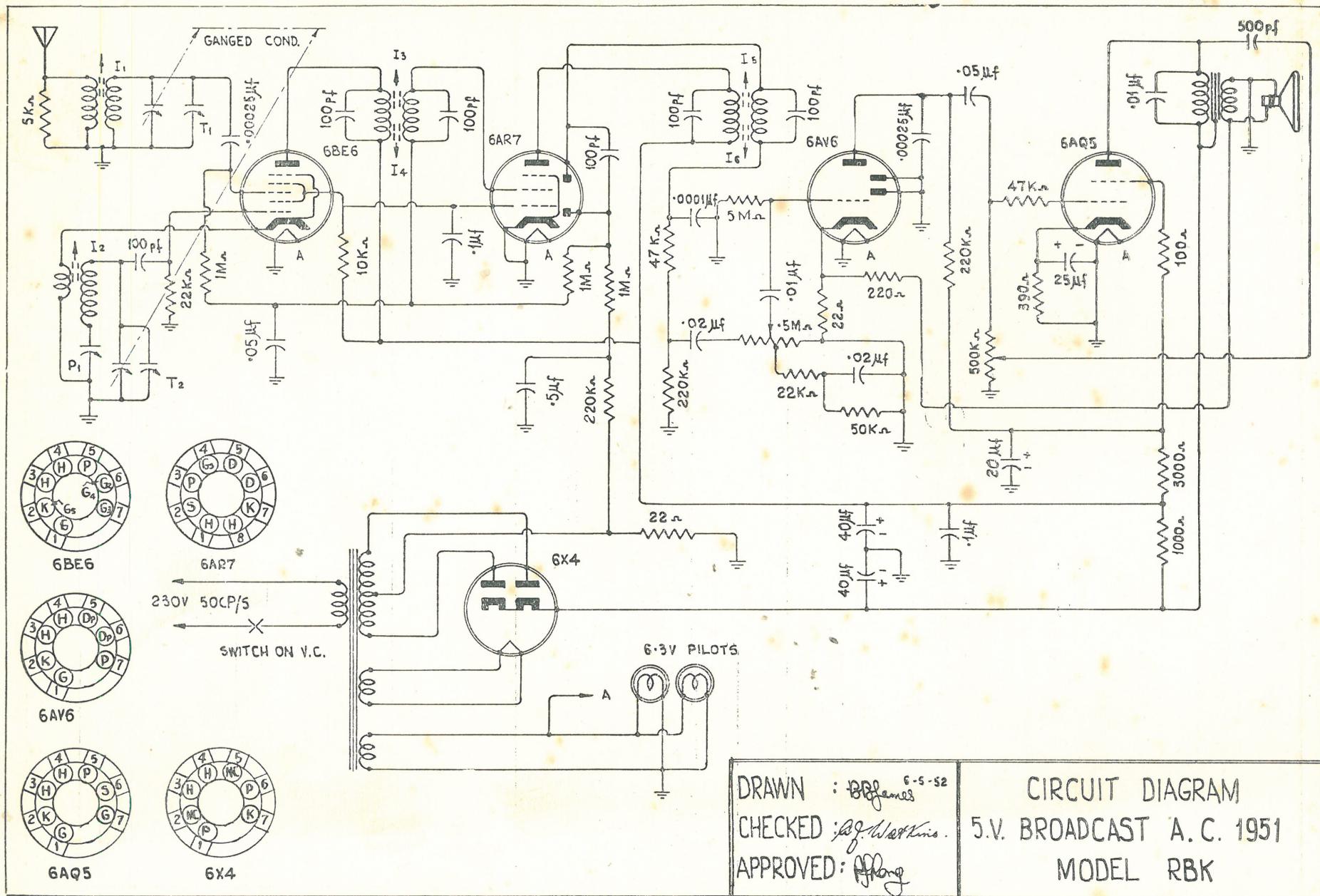
RADIO (1936) LTD.

Power Supply	230v. A.C. 50CP/S	Speaker	50 watts
Tuning Range	1600KC/S - 550KC/S	Rating	Rola 6-9 H 5K XF.
I.F. Freq	460KC/S	Power Output	3 watts approx.

CIRCUIT DESCRIPTION:

A type 6BE6 valve is utilized as a frequency changer and is coupled by means of a double tuned high gain intermediate transformer to a type 6AR7G combining the functions of intermediate frequency amplification, detection and automatic gain control source. Voltage amplification is by means of a type 6AV6 and is capacitively coupled to a 6AQ5 valve used as a power amplifier and delivering approximately 3 watts to a type 6-9H Rola Speaker. Direct current potentials are derived from a double-wound power transformer, type 6X4 full wave rectifier and resistive capacitive filter network.





Concord

VOLTAGES APPEARING BETWEEN VALVE PINS & CHASSIS FRAME.

VALVE PIN No.	1	2	3	4	5	6	7	8
6BE6	-12v. D.C.	—	—	6v. AC	210v. DC	190v. DC	—	—
6AR7GT	6v. A.C.	—	210v. DC	100v. DC	—.6v. DC	—.4v. DC	—	—
6AV6	.6v. D.C.	—	—	6v. AC	—	—	86v. DC	—
6AQ5	—	9.5v. DC	—	6v. AC	210v. DC	195v. DC	—	—
6X4	235v. AC	—	—	—	—	235v. AC	230v. DC	—

NOTE.—D.C. Readings taken with vacuum tube voltmeter.

NOTE.—Receiver tuned off station.

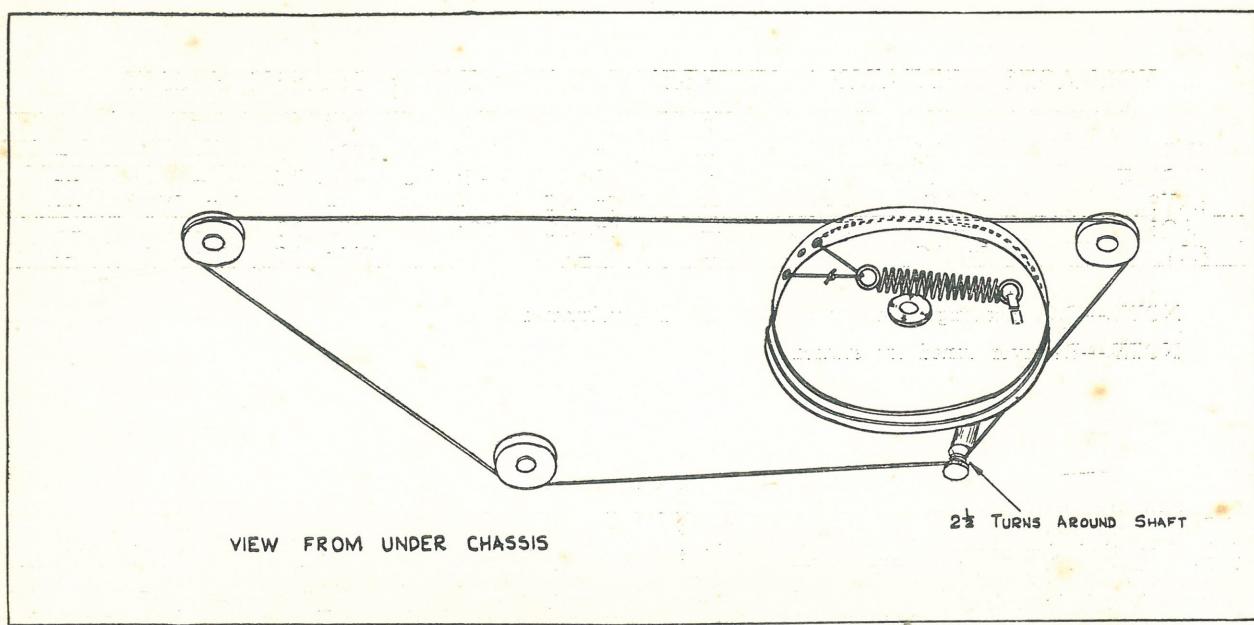
D.C. RESISTANCES

B.C. Ant. Coil Primary	20ohms	P.X. Primary	75ohms
B.C. Ant. Coil Secondary	3.2ohms	P.X. Secondary	250ohms - 250ohms
B.C. OSC. Coil Primary	.3ohms	O.X. Primary	520ohms
B.C. OSC. Coil Secondary	2ohms	O.X. Secondary	.5ohms
I.F. Transformer Primary	13ohms		
I.F. Transformer Secondary	13ohms		

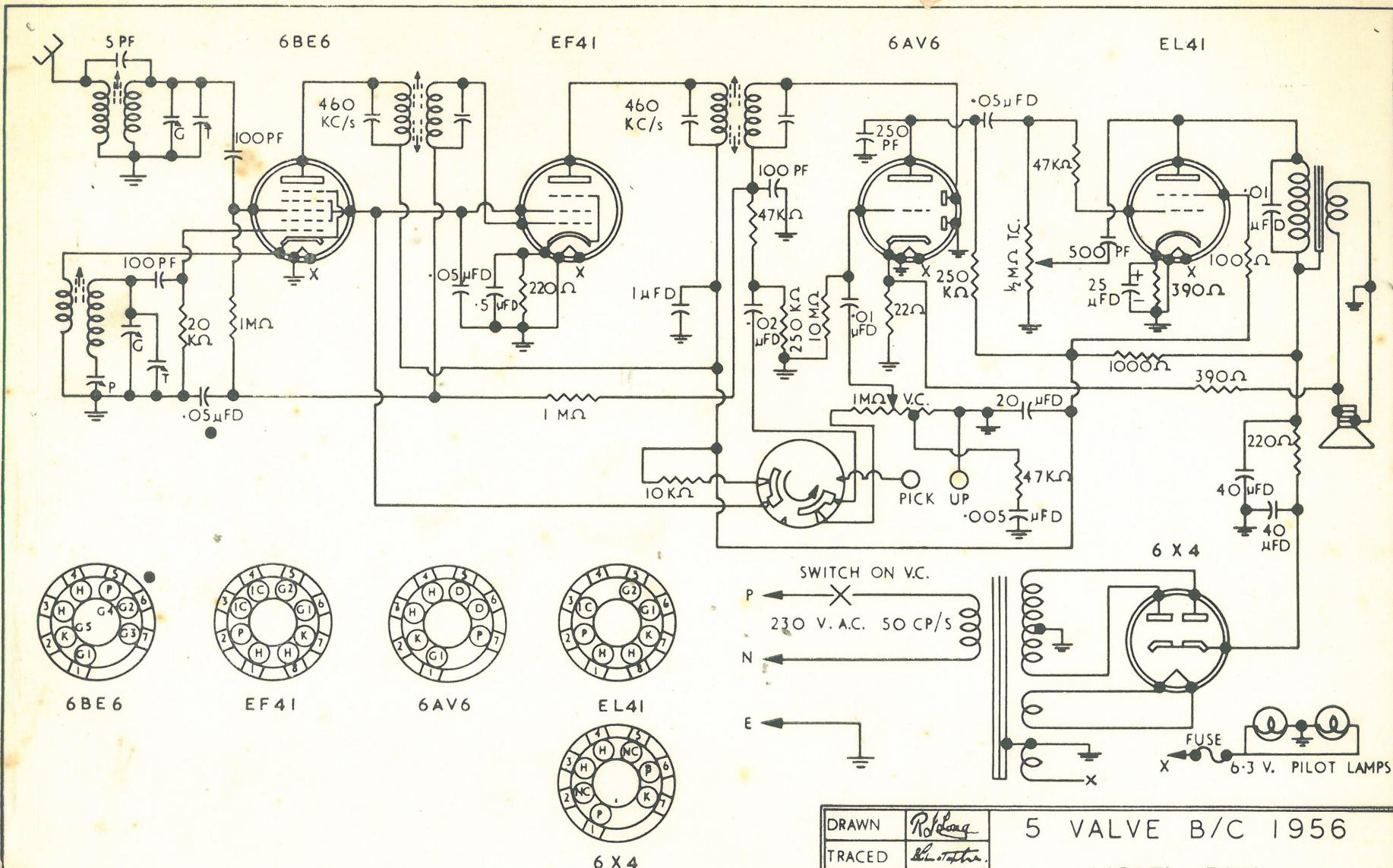
ALIGNMENT INFORMATION:

DUMMY ANT.	Generator Coupled to	Generator Frequency	Receiver Dial Setting	ADJUST	App. Sens. for 50MV. Output
.1 ufd.	Grid 6AR7	460KC/S	550KC/S	I5 - I6 for Max.	2500 Micro Volts
.1 ufd.	Grid 6BE6	460KC/S	550KC/S	I3 - I4 for Max.	55 Micro Volts
R.M.A. STANDARD	Ant.	1400KC/S	1400KC/S	Osc. Trim. T2 for Max.	
"	"	"	"	Ant. Trim. T1 for Max.	35 Micro Volts
"	"	600KC/S	Through 600KC/S	Padde P1 for Max.	30 Micro Volts

CALIBRATION AND ALIGNMENT:



AMENDMENTS AND REMARKS:



DRAWN	<i>R. Long</i>
TRACED	<i>Sh. S. S.</i>
CHECKED	<i>J. M. Evans</i>
APPROVED	<i>R. N. Long</i>
DATE	17-2-56

5 VALVE B/C 1956

MODEL RBK

"SHERWOOD" *Tawa*

Ultimate