

TECHNICAL INFORMATION

MODEL RBQ

6 Valve Dualwave Table Radio/Gram 1952

DESIGNED AND MANUFACTURED BY
RADIO (1936) LTD.

Power Supply	230v. A.C. 50 c.p.s.		Rating	50 watts
Tuning Range	1600 KC/S - 550 KC/S 17.8 MC/S - 6 MC/S		Speaker	Rola 6-9 H 5K XF
I.F. Frequency	460 KC/S		Power Output	3 watts approx.

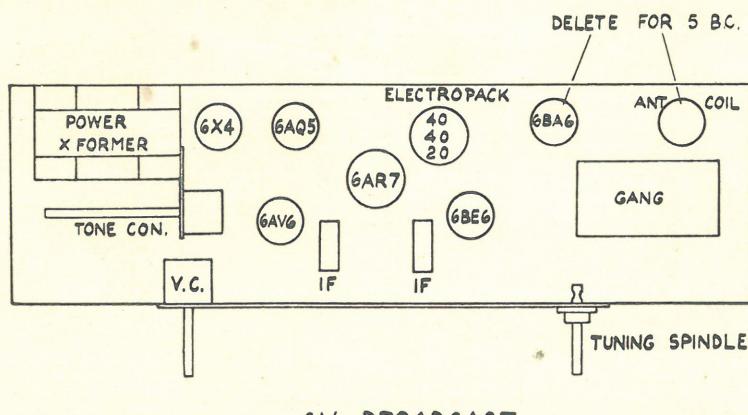
CIRCUIT DESCRIPTION :

A Type 6BE6 valve is employed as a Frequency changer and is coupled by means of a double tuned high gain intermediate transformer to a type 6BA6 which is in turn capacitively coupled to a type 6AR7GT 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.

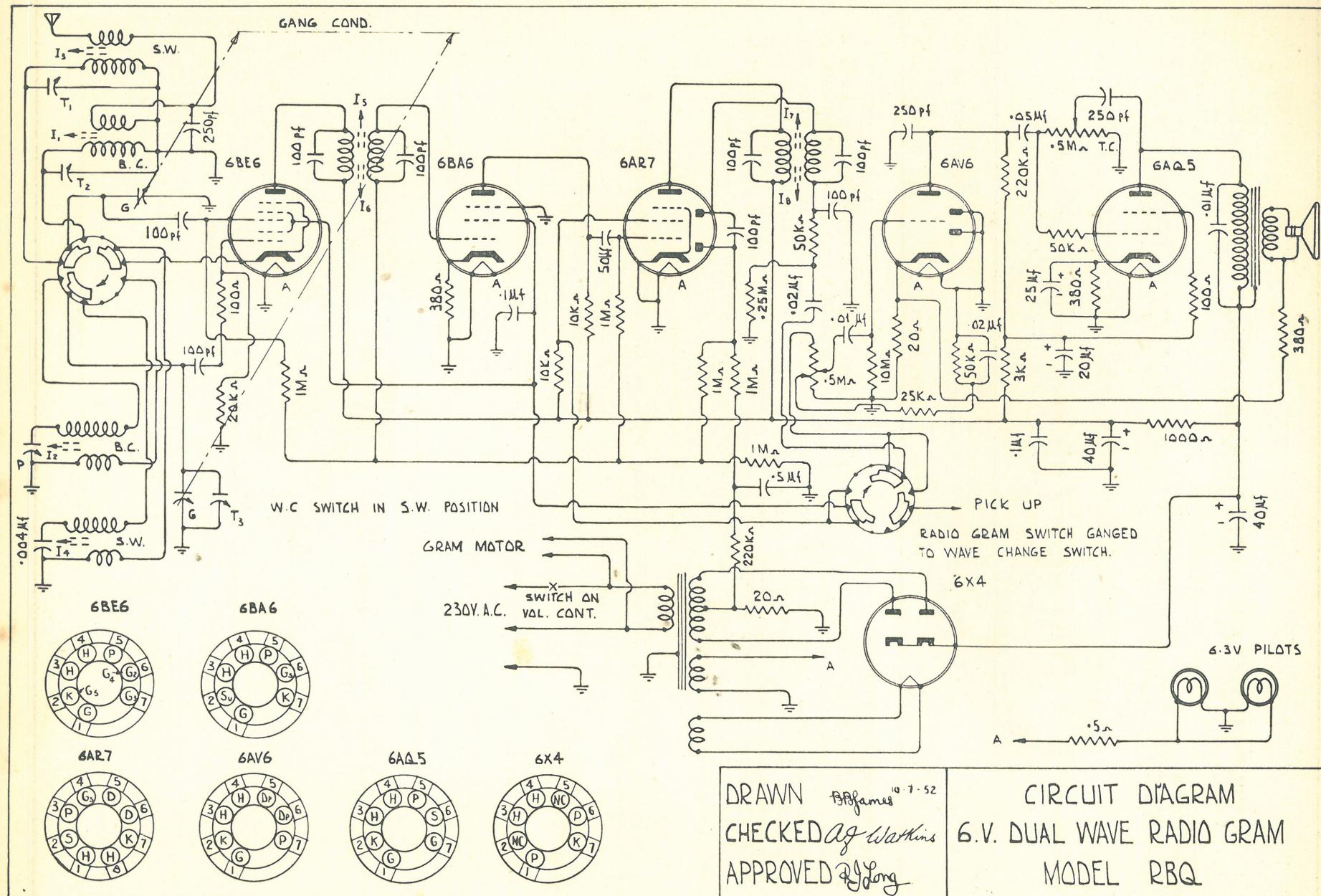
ANTENNA :

A Standard inverted "L" type Antenna with a flat top of approximately 30 feet is recommended.

The Gramophone section uses a type RC72A Record Changer fitted with a GP25 turn-over Crystal Head.



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VOLTAGES APPEARING BETWEEN VALVE PINS & CHASSIS FRAME

VALVE PIN No.	1	2	3	4	5	6	7	8
6BE6	—9v	—	—	6.3v A.C.	205v	100v	—.5v	—
6BA6	—.6v	—	—	6.3v A.C.	140v	95v	2.4v	—
6AR7GT	6.3v A.C.	—	205v	95v	—.8v	—.4	—	—
6AV6	—.7v	—	—	6.3v A.C.	—	—	75v	—
6AQ5	—	8v	—	6.3v A.C.	225v	180v A.C.	—	—
6X4	220v A.C.	—	175v	175v	—	220v A.C.	232v	—

NOTE.—D.C. Readings taken with a Vacuum Tube Voltmeter.

Receiver tuned off station.

D.C. RESISTANCES.

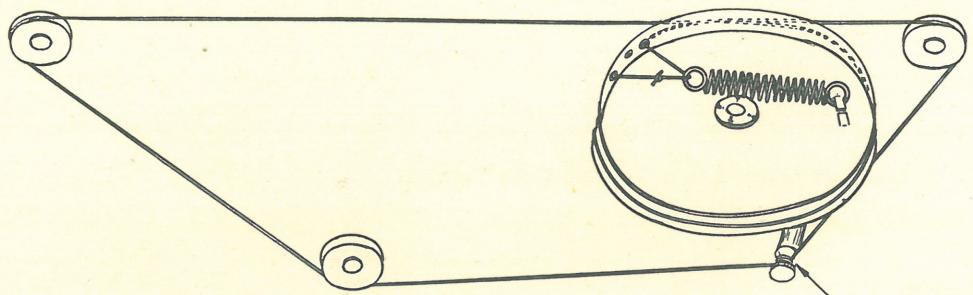
B.C. Ant. Coil Primary	---	20 ohms		P.X. Primary	---	75 ohms
B.C. Ant. Coil Secondary	---	3.2 ohms		P.X. Secondary	---	250 ohms - 250 ohms
B.C. OSC. Coil Primary	---	.3 ohms		OX. Primary	---	520 ohms
B.C. OSC. Coil Secondary	---	2. ohms		OX. Secondary	---	.5 ohms
I.F. Transformer Primary	---	13. ohms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

ALIGNMENT INFORMATION.

Adjust Volume Control for Max.

Adjust Signal Generator output to no higher than is necessary to obtain output meter reading.

DUMMY ANT.	Generator Coupled to	Generator Freq.	Receiver Dial Setting	ADJUST :	Approx. Sens. for 50 M.W. Output
.1 ufd.	Grid 6AR7GT	460 KC/S	550 KC/S	I ⁵ -I ⁶ for Max.	2500 u.v.
.1 ufd.	Grid 6BE6	460 KC/S	550 KC/S	I ³ -I ⁴ for Max.	15 u.v.
R.M.A. STANDARD	ANT.	1400 KC/S	1400 KC/S	Osc. Trimmer T ² for Max.	
"	"	"	"	Ant. Trimmer T for Max.	10 u.v.
"	"	600 KC/S	Through 600 KC/S	Padder P for Max.	12 u.v.
"	"	17.8 MC/S	17.8 MC/S	Osc. Trimmer for Max.	
"	"	17.8 MC/S	17.8 MC/S	Ant. Trimmer for Max.	
"	"	6 MC/S	6 MC/S	Ant. Core	



VIEW FROM UNDER CHASSIS

2 1/2 TURNS AROUND SHAFT

AMENDMENTS :

Broadcast Dec 1952

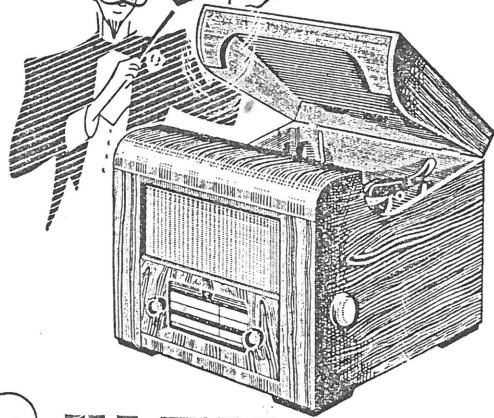
ALL THAT'S NEW FOR PEOPLE LIKE YOU!

Micro Magic Listening



Micro Magic listening brings the exciting realism, the thrilling perfection of micro groove recordings.

- With long playing records playing time is increased to 15 minutes each side of a 10" record.
- The entire range of musical notes is registered giving true studio quality.
- All surface noise and needle scratch eliminated.



ULTIMATE 6 valve Dual wave
MICRO-MAGIC table Radiogram
with 3 speed automatic changer
£63-7-6
Other models available

ULTIMATE
THE LAST WORD IN RADIO

first model
for 45 records Dec 1952

RBQ