

TECHNICAL INFORMATION MODEL RBZ

4 VALVE BROADCAST DESIGNED AND MANUFACTURED

by

RADIO (1936) LTD.

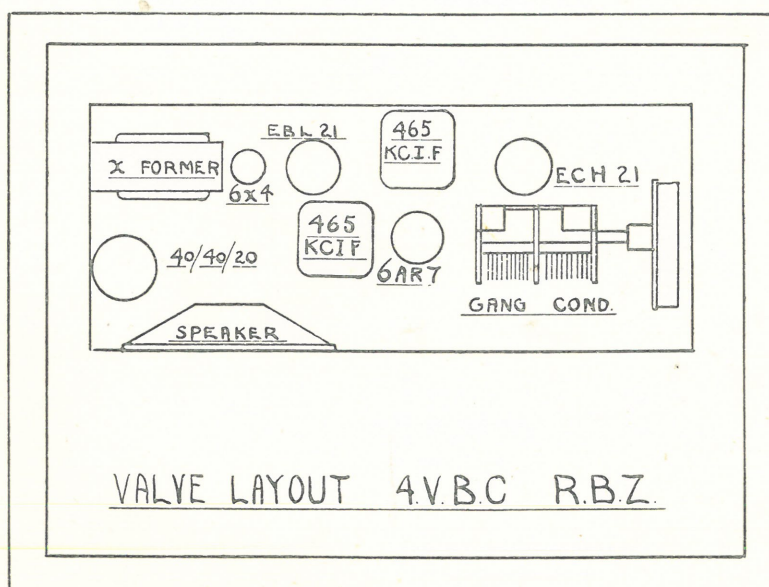
Power Supply	230v. A.C. 50CP/S.	Rating	50 Watts
Tuning Range	1600 — 550KC/S.	Speaker	Rola 5 B
		Power Out	3 Watts
		I.F. Frequency	460 KC/S

CIRCUIT DESCRIPTION:

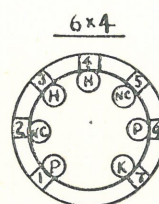
A Type ECH21 is utilised as a Frequency Changer and is coupled to a Type 6AR7GT I.F. Amplifier by means of a double wound high gain I.F. Transformer. A similar transformer couples the 6AR7GT to a Type EBL21 combining the functions of Detection, AGC source and power amplification. A Type 6X4 valve is employed in conjunction with a capacitive resistance filter to supply D.C. Power.

ANTENNA:

A plate or capacitive antenna is embodied in the receiver cabinet and is quite effective for local stations. Where a conventional antenna is required a standard "L" type with a flat top of approximate 40 feet is recommended.



RBZ



DRAWN	<i>Rd Long</i>	4 VALVE AC MINOR 1953 MODEL RBZ
TRACED	<i>Lomic</i>	
CHECKED	<i>D Johnson</i>	
APPROVED	<i>Rd Long</i>	
DATE	18 5 53	

VOLTAGES APPEARING BETWEEN VALVE PINS AND CHASSIS FRAME

VALVE PIN No.	1	2	3	4	5	6	7	8
ECH21	6.3v.	240v.	100v.	-15v.	100v.	-1.8v.	-15v.	—
6AR7	—	—	240v.	100v.	—	—	—	6.3v.
EBL21	6.3v.	225v.	—	225v.	5.6v.	-1.8v.	6v.	—
6X4	200v.	—	40v.	50v.	—	200v.	240v.	—

NOTE: D.C. Readings taken with a Vacuum Tube Volt Meter off station.

D.C. RESISTANCES:

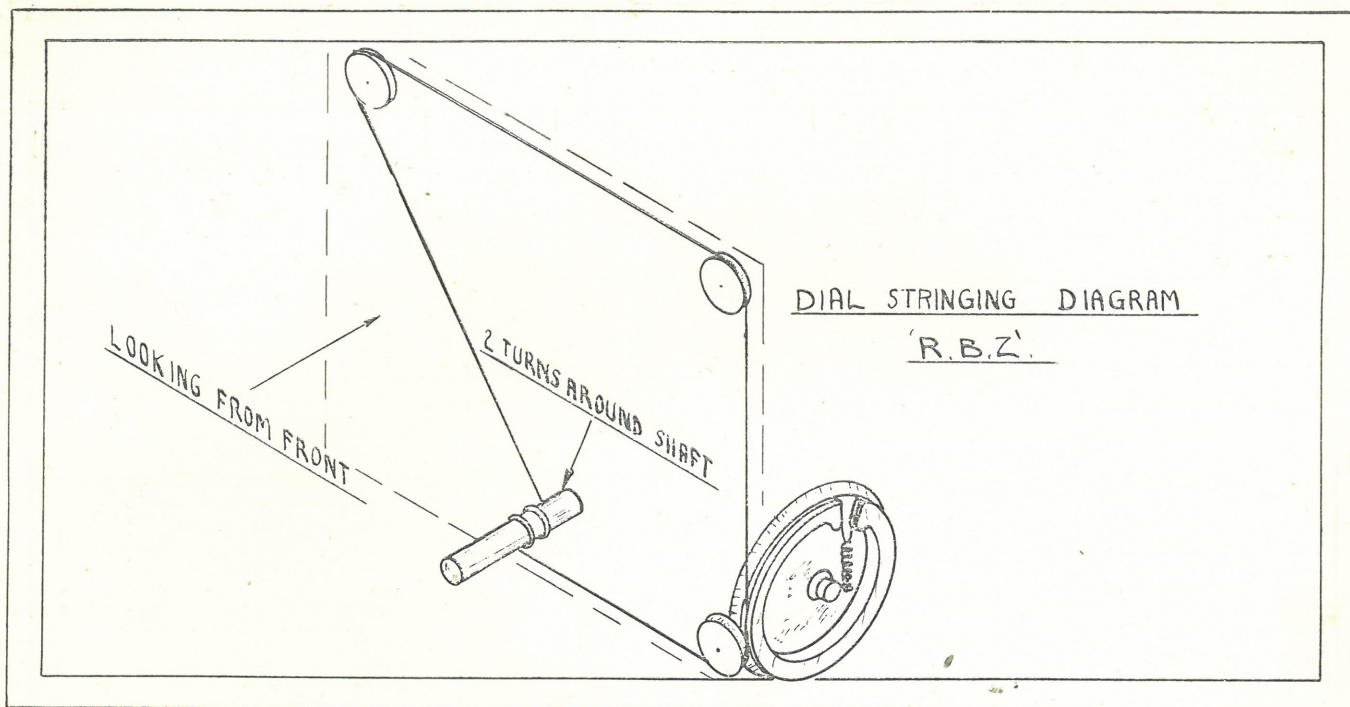
AER. Coil Prim.	45ohms.	I.F. Prim.	7ohms.
AER. Coil Sec.	3.2ohms.	I.F. Sec.	7ohms.
DET. Coil Prim.	—	Power Xformer Prim.	80ohms.
DET. Coil Sec.	—	Power Xformer Sec.	600ohms.
OSC. Coil Prim.	2.2ohms.	Speaker Xformer Prim.	600ohms.
OSC. Coil Sec.	.3ohms.	Speaker Xformer Sec.	.8ohms.

ALIGNMENT INFORMATION:

Adjust Volume Control for Max Gain.

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

DUMMY ANT.	Generator Coupled to:	Generator Freq.	Receiver Dial Setting	Adjust	Approx. Sens. for 50m.w. output
.1mfd. Cond.	Grid 6AR7	460KC/S	550KC/S	2nd I.F. Trimmer	9000mv.
.1mfd. Cond.	Grid ECH21	460KC/S	550KC/S	1st and 2nd I.F. Trimmers	70mv.
RMA. Standard	Ant. Lead	1400KC/S	1400 KC/S	OSC. Trimmer for Maximum	14mv.
RMA. Standard	Ant. Lead	1400KC/S	1400 KC/S	ANT. Trimmer for Maximum	15mv.
RMA. Standard	Ant. Lead	600KC/S	Through 600KC/S	Padder for Maximum	15mv.



AMENDMENTS AND REMARKS :