

# TECHNICAL INFORMATION MODEL RBZ

## 4 VALVE BROADCAST DESIGNED AND MANUFACTURED

by

RADIO (1936) LTD.

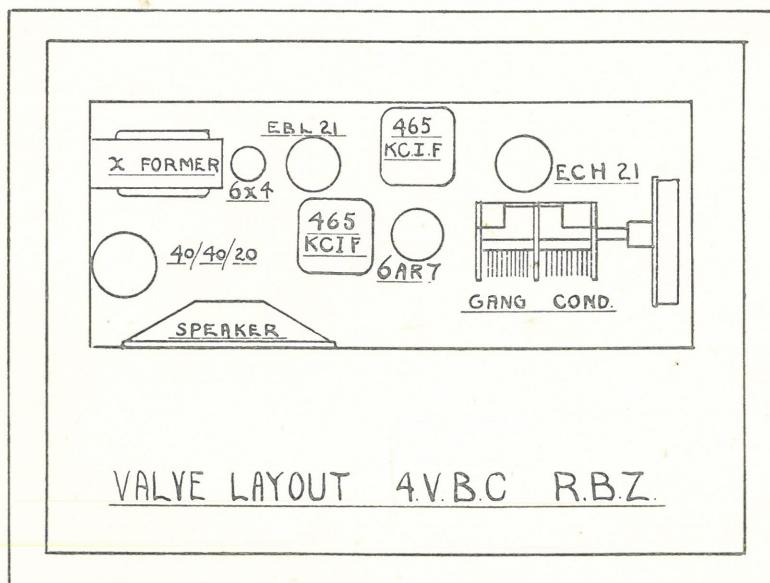
Power Supply	230v. A.C. 50CP/S.	Rating	50 Watts
Tuning Range	1600 — 550KC/S.	Speaker	Rola 5 B
		Power Out	3 Watts
		I.F. Frequency	460 KC/S

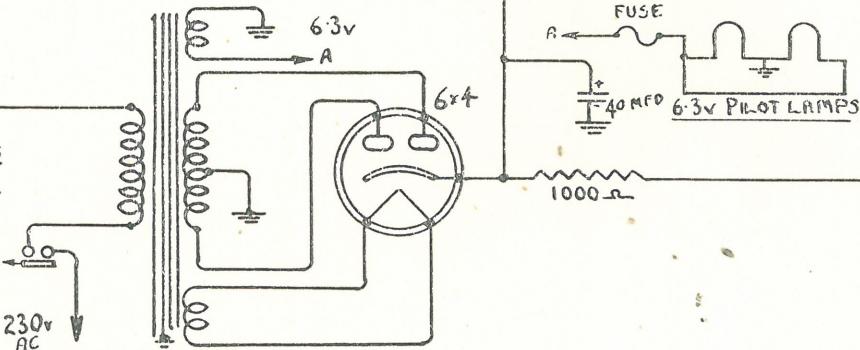
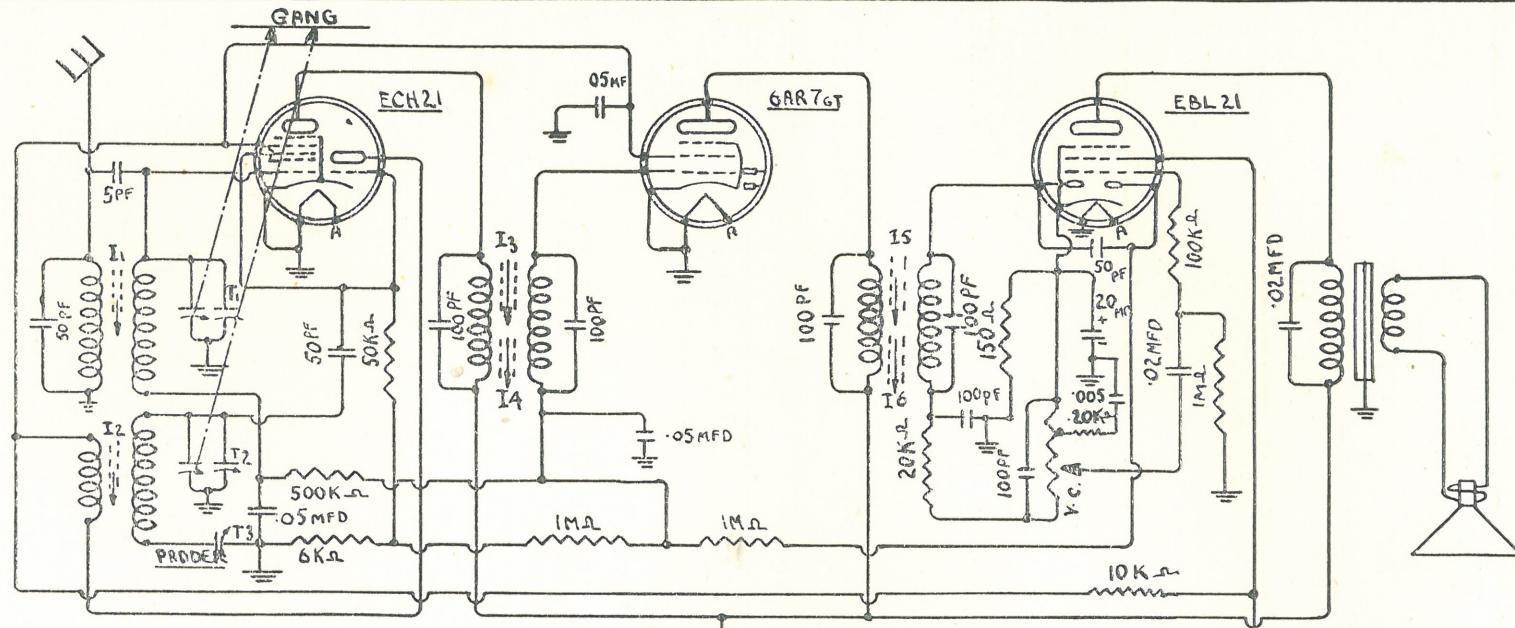
### CIRCUIT DESCRIPTION:

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.

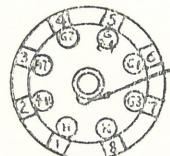
### ANTENNA:

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.

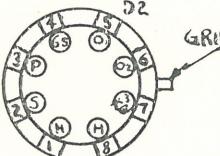




ECH 21



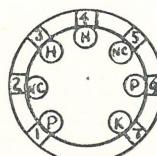
GAR 7 GT



EBL 21



6x4



DRAWN	R. Long
TRACED	G. L. Lewis
CHECKED	W. Johnson
APPROVED	R. Long
DATE	18 5 '53

4 VALVE AC MINOR  
1953 MODEL 'RBZ'

### 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:

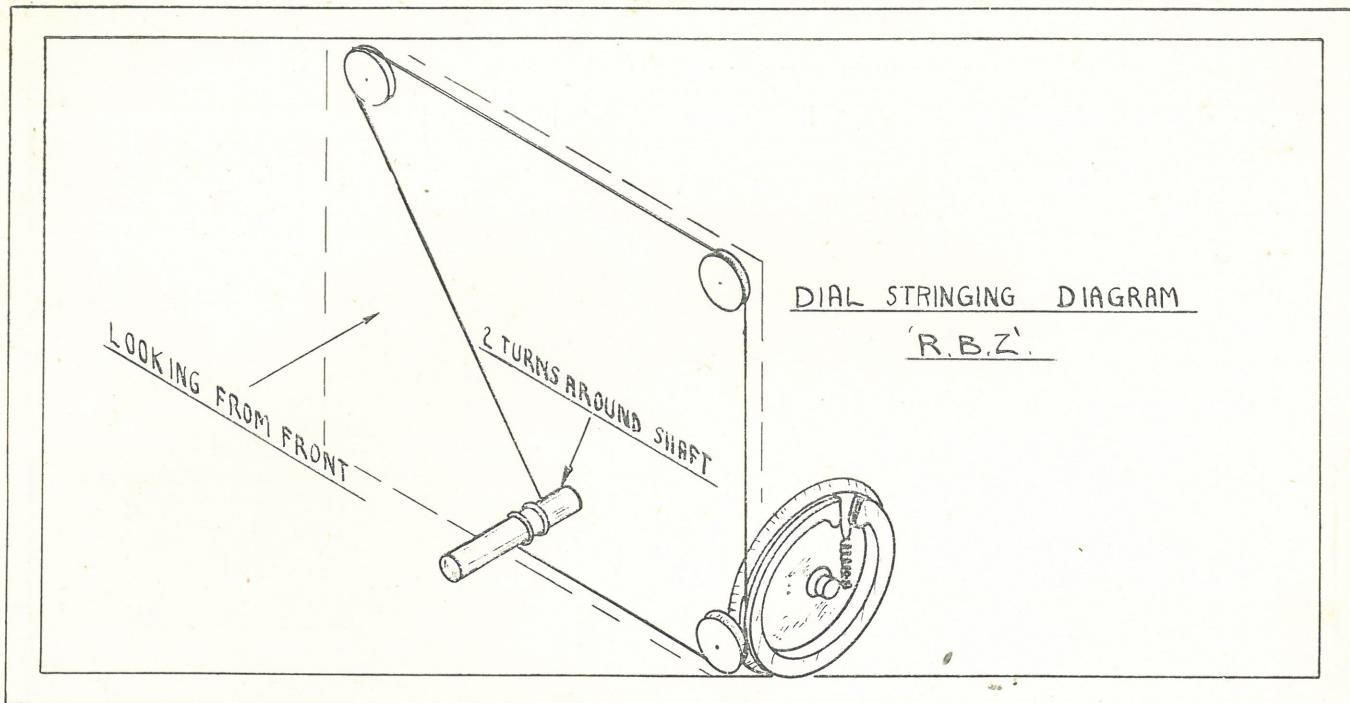
AER. Coil Prim.	450ohms.	I.F. Prim.	70hms.
AER. Coil Sec.	3.2ohms.	I.F. Sec.	70hms.
DET. Coil Prim.		Power Xformer Prim.	80ohms.
DET. Coil Sec.		Power Xformer Sec.	600ohms.
OSC. Coil Prim.	2.2ohms.	Speaker Xformer Prim.	600ohms.
OSC. Coil Sec.	.8ohms.	Speaker Xformer Sec.	.8ohms.

### 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 :