

TECHNICAL INFORMATION MODEL R.C.D.

5 VALVE BROADCAST A.C. 1953

DESIGNED AND MANUFACTURED

by

RADIO (1936) LTD.

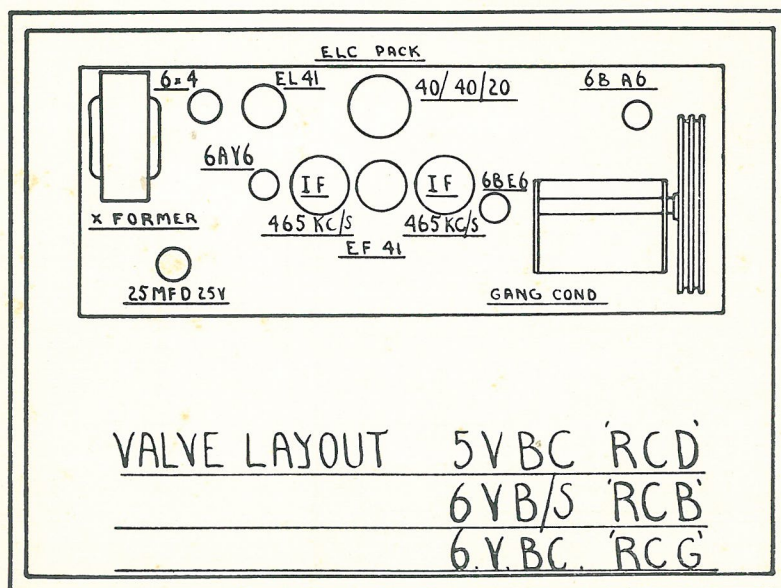
Power Supply	230v 50 cp/s	Rating	50 watts
Tuning Range	1600 500 kc/s	Speaker	Rola 6-9H
		Power Output	3.5 watts
		I.F. Frequency	460 kc/s

CIRCUIT DESCRIPTION:

A 6BE6 is employed as a Frequency changer and is coupled by means of a double wound high gain IF Xformer to a type EF41IF Amplifier. Voltage Amplification, Detection and AGC source is obtained by the use of a 6AV6 duo diode triode, which is capacitively coupled to a EL41 power amplifier. A type 6X4 is employed in conjunction with a capacitive filter to supply D.C. voltage.

ANTENNA:

The radio frequency input circuit is designed for maximum gain when coupled to an antenna having a flat top of 40 feet.



VOLTAGES APPEARING BETWEEN VALVE PINS AND CHASSIS FRAME.

VALVE PIN No.	1	2	3	4	5	6	7	8
6BE6	—4.9v D.C.	—	6.2v A.C.	—	225v D.C.	92v D.C.	—3v D.C.	—
EF41	—	225v D.C.	1.4v D.C.	1.4v D.C.	90v D.C.	—3v D.C.	1.4v D.C.	6.2v A.C.
6AV6	—8v D.C.	—	6.2v A.C.	—	—5v D.C.	—	110v D.C.	—
EL41	6.2v A.C.	235v D.C.	5.6v D.C.	—	225v D.C.	—	5.6v D.C.	—
6X4	210v A.C.	—	—	—	—	210v A.C.	250v D.C.	—

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

NOTE.—Receiver tuned off station.

D.C. RESISTANCES

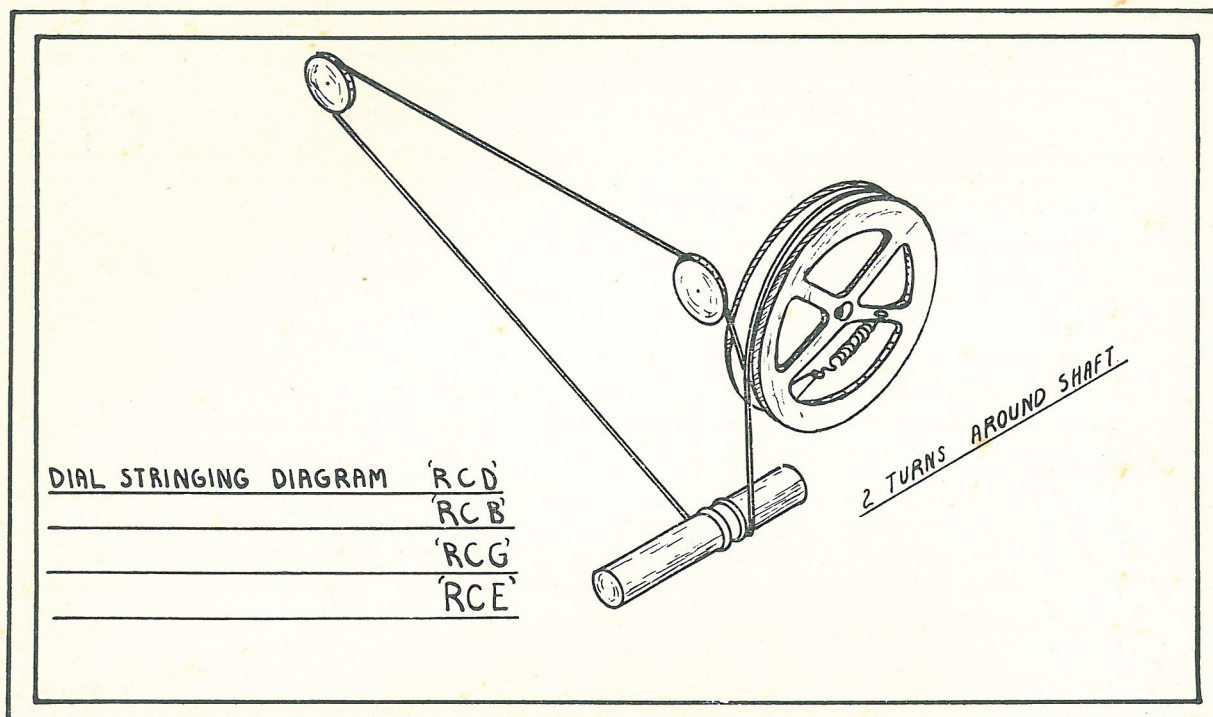
AER. Coil Prim.	44 ohms.	I.F. Prim.	7 ohms.
" " Sec.	3 ohms.	" Sec.	7 ohms.
DET. " Prim.		Power Xformer Prim.	60 ohms.
" " Sec.		" " Sec.	350 ohms.
OSC. " Prim.	.2 ohms.	Speaker Xformer Prim.	
" " Sec.	2 ohms.	" " Sec.	

ALIGNMENT INFORMATION

Adjust Volume Control for Max. gain.

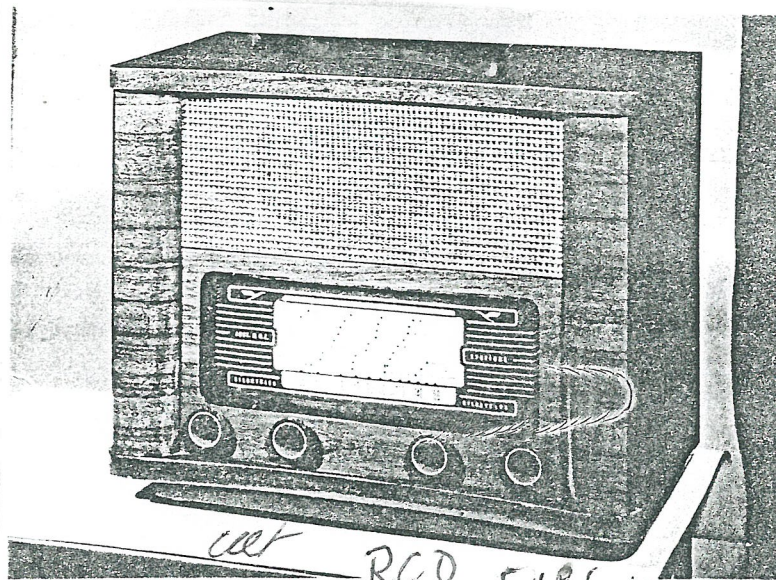
Adjust Signal Generator Output to no higher than is necessary to obtain output meter reading.

DUMMY ANT.	Generator Coupled to:	Generator Freq.	Receiver Dial Setting	ADJUST	Approx. Sens. for 50M.V. Output
.1 MFD.	Grid of EF41	460 KC/S	550 KC/S	I ⁵ and I ⁶ for Max.	3000 u.v.
.1 MFD.	Grid of 6BE6	460 KC/S	550 KC/S	I ⁴ and I ³ for Max.	20 u.v.
R.M.A. STANDARD	ANT. LEAD	1400 KC/S	1400 KC/S	T ² for Max.	4 u.v.
R.M.A. STANDARD	" "	1400 KC/S	1400 KC/S	T ¹ for Max.	5 u.v.
R.M.A. STANDARD	" "	600 KC/S	Through 600 KC/S	Padder for Max.	5 u.v.



AMENDMENTS AND REMARKS:

- (1) Bias Resistor EF41 changed to 220ohms.
- (2) Screen Resistor EF41 has 250Kohm in parallel.
- (3) Secondary of 1st IF has 500Kc in Parallel.
- (4) Plate of 6AV6 has 250PF to ground.
- (5) One side of output Xformer secondary grounded.



WLF

RCD 51BC 1953