

# TECHNICAL INFORMATION MODEL R.C.G.

## 6 VALVE BROADCAST A.C. 1953

DESIGNED AND MANUFACTURED

by

# RADIO (1936) LTD.

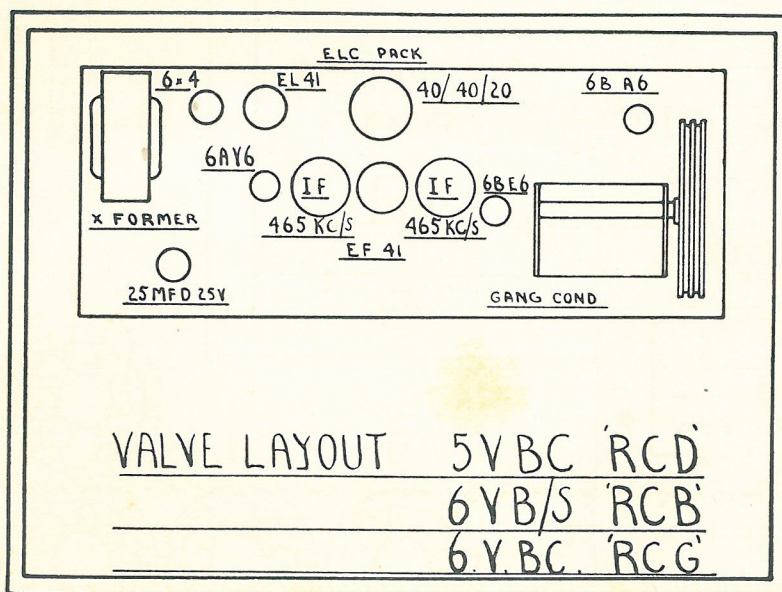
Power Supply	230v. A.C. 50 cp/s.	Rating	60 watts
Tuning Range	1600kc/s. - 550 kc/s.	Speaker	Rola 6-9 H.
		Power Output	3 watts
		I.F. Frequency	460 kc/s.

### CIRCUIT DESCRIPTION:

A type 6BA6 valve is employed as a radio frequency amplifier and is coupled to a type 6BE6 frequency changer, which is in turn coupled by means of a double tuned high gain intermediate frequency transformer to a type FE41 I.F. Amplifier. A second high gain I.F. transformer is followed by a type 6AV6 valve combining the functions of detection A.G.C. source and voltage amplification which is in turn capacitively coupled to a type EL41 power amplifier. The 230v. A.C. Mains source is converted to direct current by means of a double wound transformer, 6 x 4 rectifier and filter system.

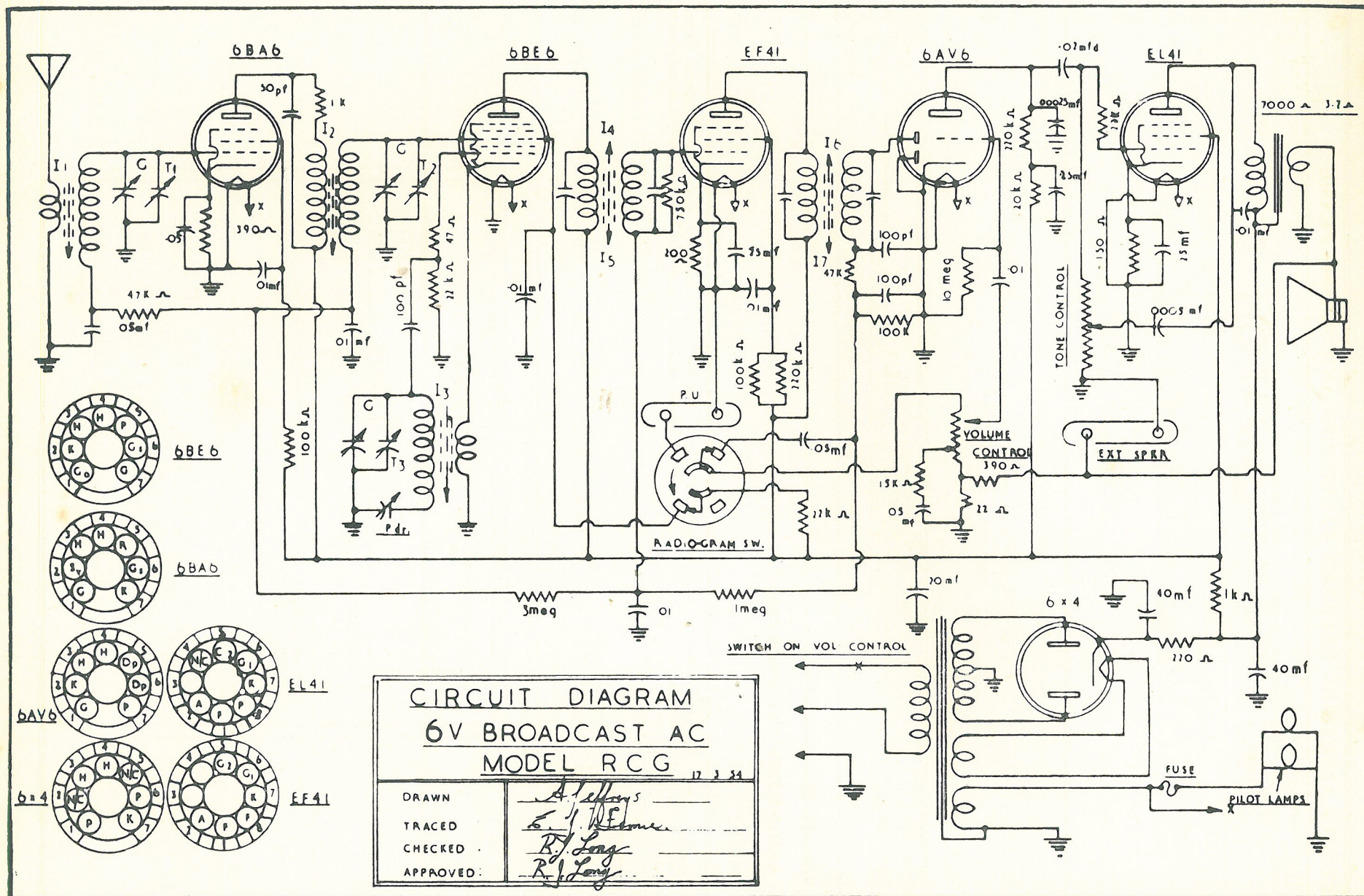
### ANTENNA:

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



*ppm*







# VOLTAGES APPEARING BETWEEN VALVE PINS AND CHASSIS FRAME.

VALVE PIN No.	1	2	3	4	5	6	7	8
6BA6	— .5v d.c.	2v d.c.	6v a.c.	—	230v d.c.	76v d.c.	2v. d.c.	
6BE6	— .5v d.c.	—	6v a.c.	—	225v d.c.	80v. d.c.	— .5v. d.c.	
EF41	—	225v d.c.	—	—	90v d.c.	— .5v d.c.	2v. d.c.	6v. a.c.
6AV6	— .8v d.c.	—	6v a.c.	—	— .5v d.c.	—	110v. d.c.	
EL41	6v a.c.	230v d.c.	—	—	220v. d.c.	—	5.6v. d.c.	
6 x 4	200v a.c.	—	—	—	—	200v a.c.	250v. d.c.	

## D.C. RESISTANCES.

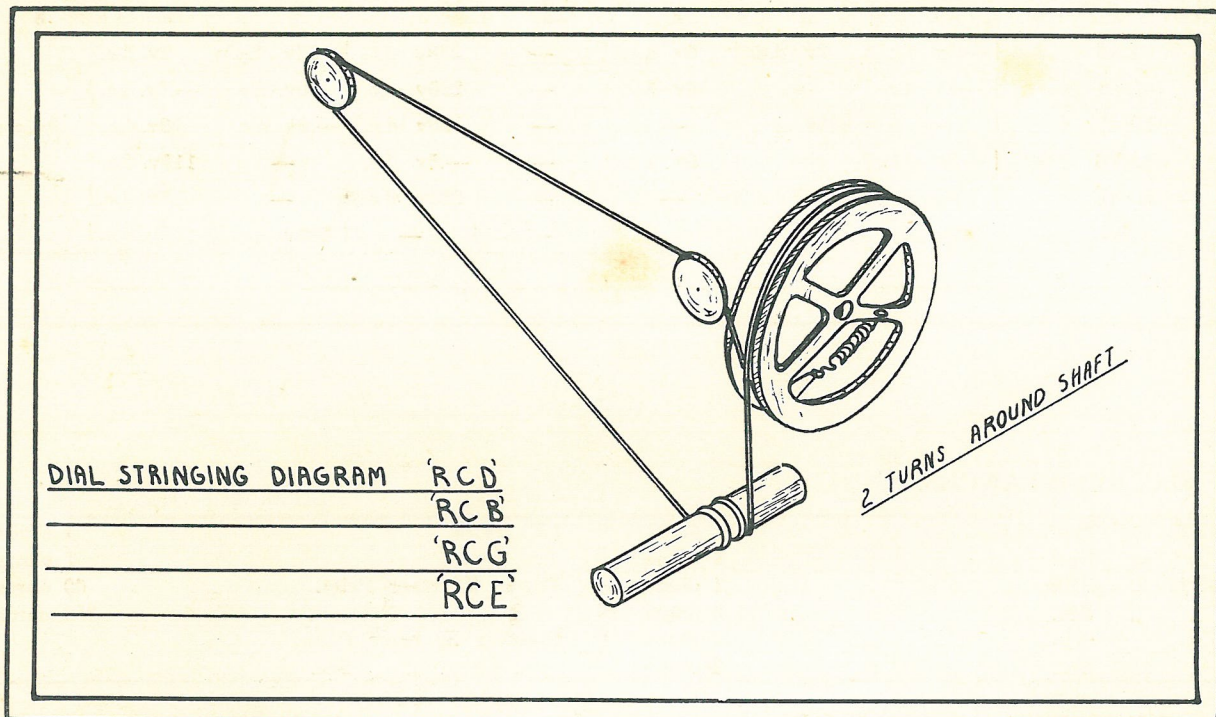
AER. Coil Prim.	44 ohms	I.F. Prim.	7 ohms
" " Sec.	3 ohms	" Sec.	7 ohms
DET. " Prim.	.4 ohms	Power Xformer Prim.	60 ohms
" " Sec.	3 ohms	" " Sec.	350 ohms
OSC. " Prim.	.2 ohms	Speaker Xformer Prim.	
" " Sec.	2 ohms	" " Sec.	

## ALIGNMENT INFORMATION:

Adjust.  
Adjust.

DUMMY ANT.	Generator Coupled to:	Generator Freq.	Receiver Dial Setting	ADJUST	Approx. Sens. for 50m.v. output
.1 mfd	Control Grid EF41	460 Kc/s.	550 Kc/s.	2nd I.F. Trimmers For Max.	1300 m.v.
.1 mfd	Control Grid 6BE6	460 Kc/s.	550 Kc/s.	All I.F. Trimmers For Max.	30 m.v.
RMA Standard	ANT. LEAD	1400 Kc/s.	1400 Kc/s.	Osc. Trimmer For Max.	
"	"	1400 Kc/s.	1400 Kc/s.	R.F. and DET. Trimmer For Max.	Better Than 1 micro volt
"	"	600 Kc/s.	Through 600 Kc/s.	Padder for Max.	Better Than 1 micro volt





AMENDMENTS AND REMARKS.