

MODEL RAW

6 VALVE BROADCAST A.C. BATT. 1951

DESIGNED & MANUFACTURED BY

RADIO (1936) LTD.

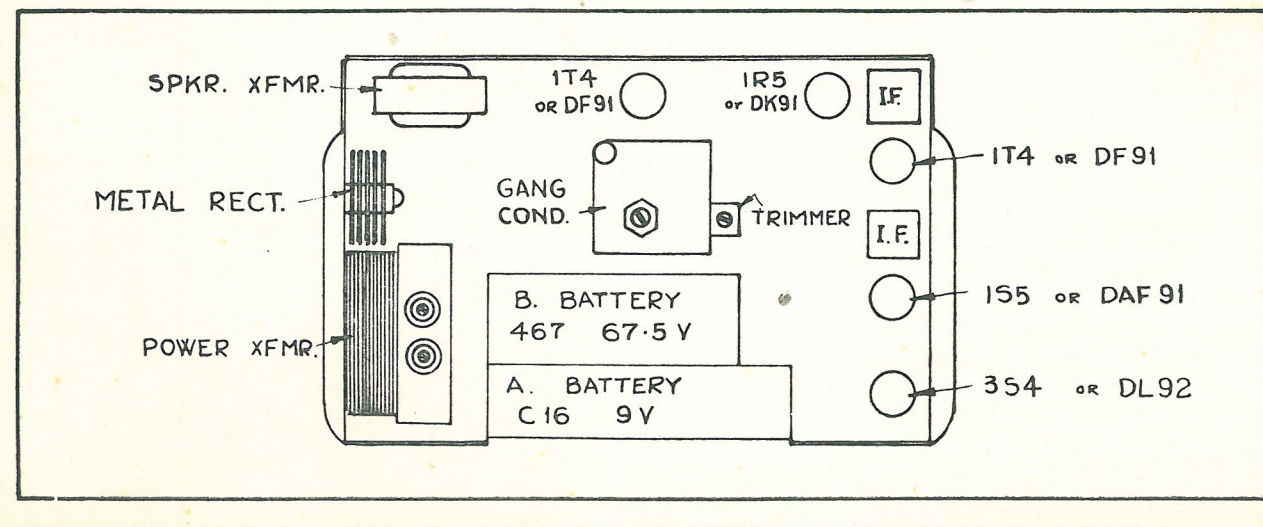
Power Supply	230v. AC 50 Cp/s.	Rating	20 Watts
Tuning Range	1600Kc/s — 550Kc/s	Speaker	Rola 3 C.
I.F. Frequency	460Kc/s	Power Output	100 Milliwatts

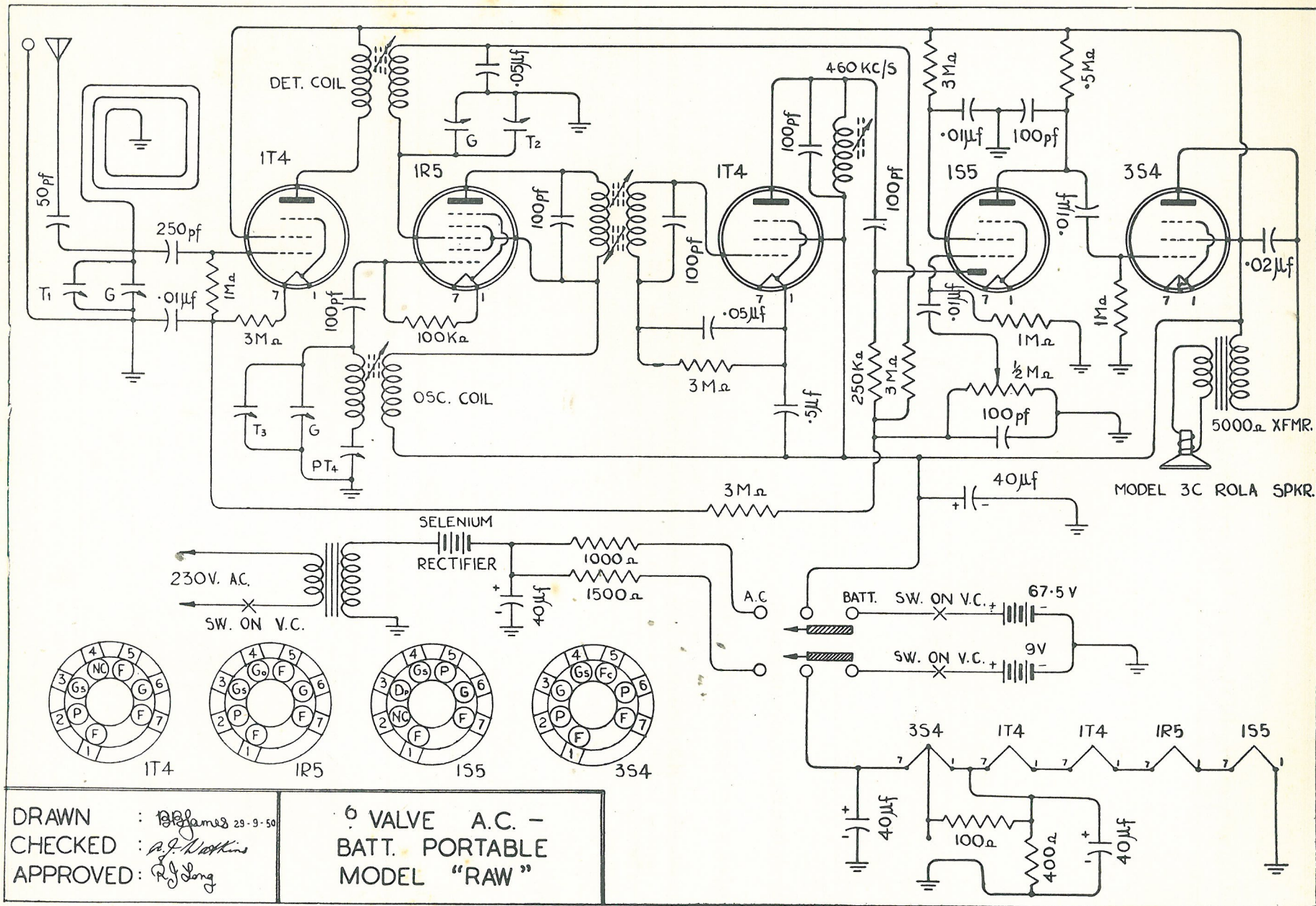
CIRCUIT DESCRIPTION:

A type IT4 valve is employed as a radio frequency amplifier and is coupled to a type DK91 frequency changer which is in turn coupled by means of a double tuned high gain I.F. transformer to a type IT4 used as an I.F. amplifier. The type IS5 performs the combined functions of detection AGC source and voltage amplification and is capacitively coupled to a type 3S4 power amplifier. The 230-volt AC mains source is converted to direct current by means of a double-wound transformer, type RMI. Centercel selenium rectifier and filter system.

ANTENNA:

A standard inverted "L" type antenna with a flat top of approximately 30 feet is recommended when an outside antenna is desired and connections are provided at the back of the receiver. When using an outside antenna it is essential for best results that an efficient earth such as a water pipe be used.





VOLTAGES APPEARING BETWEEN VALVE PINS AND CHASSIS FRAME.

VALVE PIN No.	1	2	3	4	5	6	7	8
IT4 R.F. Amp.	+2.7	+63	+63	+1.9	0	+1.9	+3.9	
DK91 Freq. Changer	+1.35	+61	+61	-21	1.2	-.2	+2.65	
IT4 I.F. Amp.	+3.9	+63	+63	-.15	0	+3.5	+5.0	
IS5 Diode Det.	0	-.2	-.25	+17	+32	-2.5	+1.35	
3S4 Power Amp. ..	+5.0	+61	-.2	+63	+6	0	+7.4	

NOTE: D.C. Readings taken with vacuum type voltmeter.

Receiver on A.C. mains.

D.C. RESISTANCES.

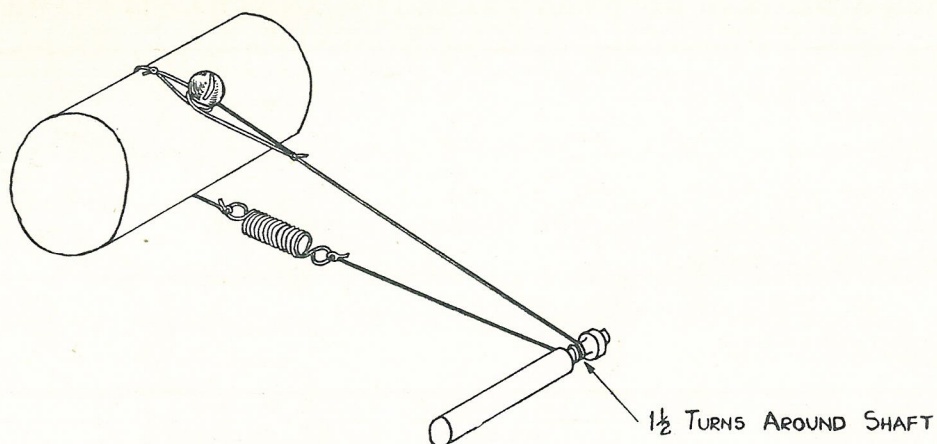
Loop Ant.	1.5 ohms	1st I.F. Primary	14.5
Det. Coil Primary	100 ohms	1st I.F. Secondary	14.5
Det. Coil Secondary	4.5 ohms	2nd I.F. Primary	14.5
Osc. Coil Primary75 ohms	Speaker Xformer Primary	475 ohms
Osc. Coil Secondary	2.0 ohms	Speaker Xformer Secondary75 ohms
Power Xformer Primary	210 ohms		
Power Xformer Secondary	200 ohms		

ALIGNMENT INFORMATION:

Adjust volume control for maximum gain.

Adjust sig. generator output to no higher than necessary to obtain output meter reading.

[illegible]

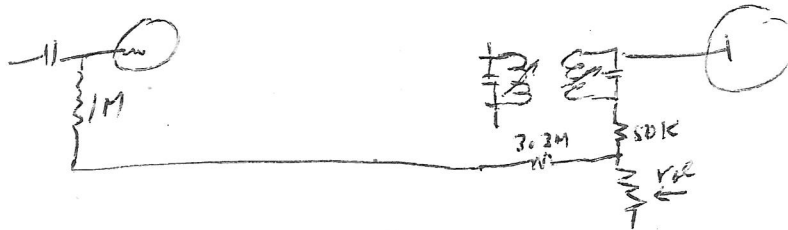


AMENDMENTS AND REMARKS:

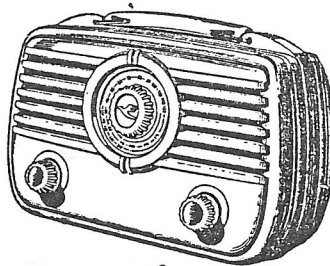
1. Production chassis have had added a 50 P.F. condenser which is connected across the detector coil primary.
2. A special switch has been added breaking the B-Lead and is actuated by the volume control shaft.
3. The number of turns around the tuning drive shaft has been increased to $2\frac{1}{2}$ turns.

RAW S/N 181979
using 2- Philips flat IF TS

Pola 3C = 29K5
- 1955



RAW



RAW mod.