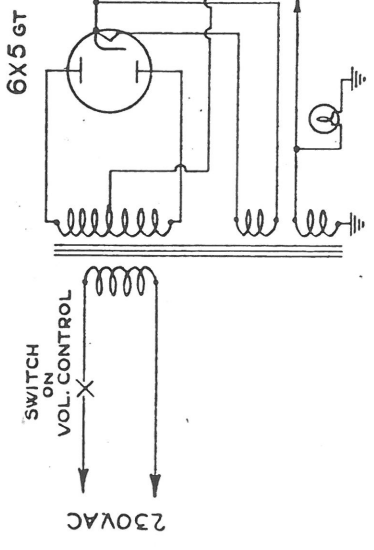


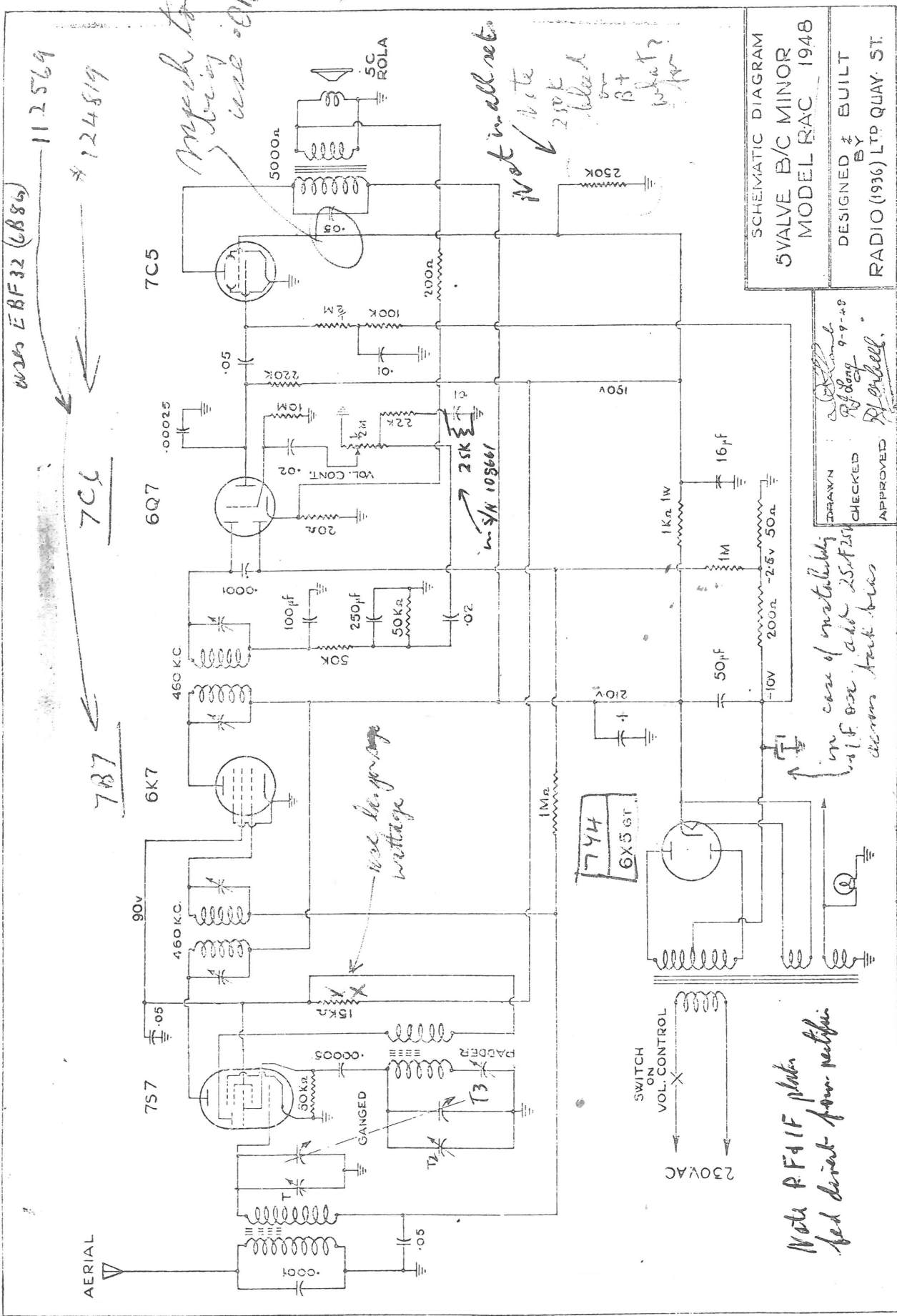
SCHEMATIC DIAGRAM  
 5VALVE B/C MINOR  
 MODEL RAC 1948

DESIGNED & BUILT  
 BY  
 RADIO (1936) LTD QJAY ST.

DRAWN: *W. J. ...*  
 CHECKED: *R. J. ...*  
 APPROVED: *R. J. ...*  
 9-9-48



SWITCH  
 ON VOL. CONTROL  
 230VAC



RAC  
"NUMBER"

1127 C 50 F 8  
1052  
16T  
mm  
Aerial 1st  
8+ 0/P

Aerial level in too high; modify filter

Note RF & IF plates fed direct from rectifier

First alternate set to use a 5" speaker

(1948) RAC  
MINOR

# TECHNICAL INFORMATION MODEL RAC

DESIGNED & BUILT BY  
**RADIO (1936) LTD.**  
 QUAY ST. AUCKLAND N.Z.

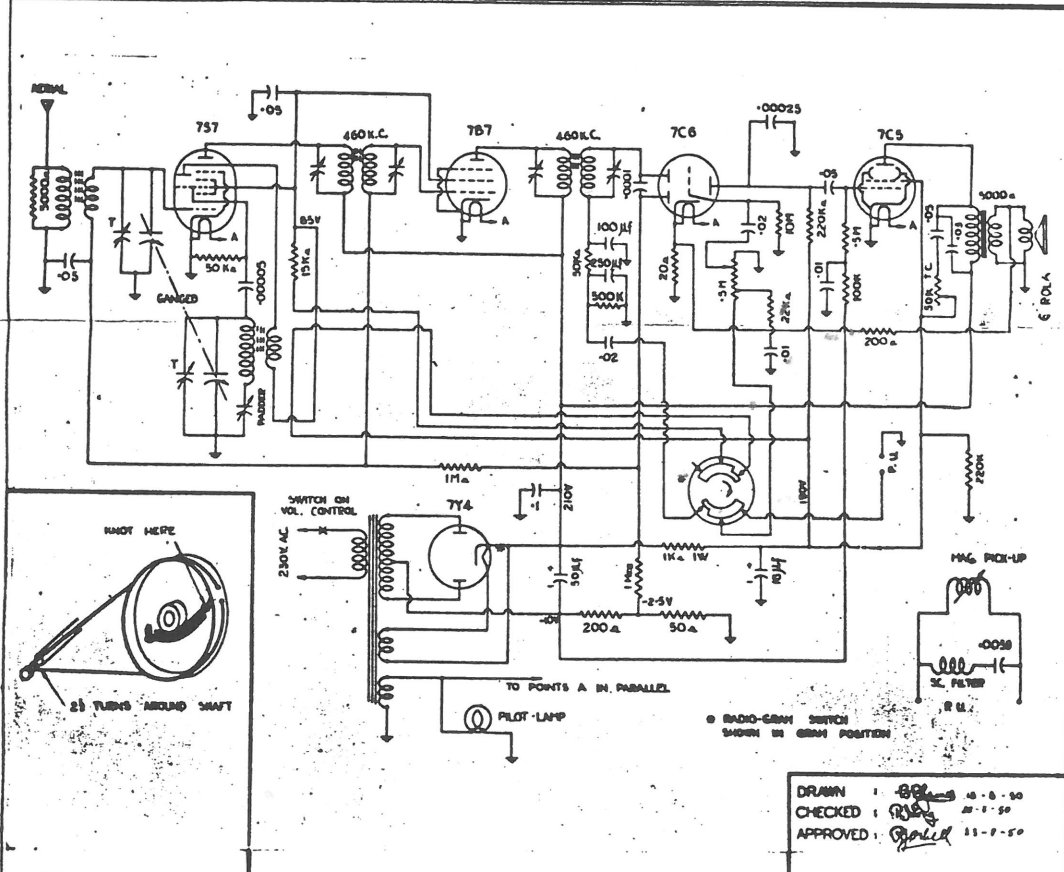
## 5.V. RADIOGRAM "MITRE"

230 VOLTS 50 CYCLES

CIRCUIT : MIXER - I.F. - 2<sup>nd</sup> DETR. - OUTPUT - RECTIFIER

TUNING RANGE : STANDARD BROADCAST

POWER OUTPUT : 3 WATTS FROM 6" ROLA SPEAKER



DRAWN : *[Signature]* 10-8-50  
 CHECKED : *[Signature]* 10-1-50  
 APPROVED : *[Signature]* 11-7-50

### VOLTAGES BETWEEN ALL VALVE PINS AND CHASSIS FRAME

VALVE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
757	6.3V. AC.	210V. D.C.	85V. D.C.	-7.8V. DC	85V. D.C.	-1.5V. D.C.	0	0
7B7	6.3V. AC.	210V. D.C.	85V. D.C.	0	0	-1.5V. D.C.	0	0
7C6	0	110V. D.C.	-1V. D.C.	0	-6V. D.C.	-1.5V. D.C.	0	6.3V. A.C.
7C5	0	210V. D.C.	180V. D.C.	0	-13V. D.C.	-13V. D.C.	0	6.3V. A.C.
7Y4	210V. D.C.	0	180V. A.C.	0	0	180V. AC	210V. D.C.	210V. D.C.

NOTE :- D.C. READINGS WITH V.T. V.M.

### ALIGNMENT INFORMATION

CONNECT GENR. TO	FREQ. K.C.	ALIGNMENT FOR APPROX. SENSITIVITY OF
IF GRID PER .1MFD.	460	20 MICROVOLTS FOR 50 M/W OUTPUT
ANT. PER DUMMY ANT.	1400, 1000, 600	12μV, 10μV, 12μV " " "

AERIAL :- FOR BEST RESULTS OVER VERY LONG DISTANCES THE AERIAL SHOULD BE AT LEAST 30 OR 40 FEET LONG. FOR MEDIUM DISTANCES AND LOCAL RECEPTION, A WIRE MATTRESS OR FIRE SCREEN IS EFFECTIVE.

## For the Serviceman

THE ULTIMATE  
MODEL. R.A.C. 5-VALVE BROADCAST

### Alignment Data: I.F.

A signal generator modulated 30 per cent. at 400 cp/s is coupled to the control grid of the 7S7 by means of a .1  $\mu$ f. condenser. The trimmers should be adjusted for maximum output in the following order.

### RF. Calibration

The pointer should be set in the horizontal position with the gang cords vanes unmeshed. Set pointer to the 1400 kc/s point on the dial and adjust T2 until 1400 cp/s signal corresponds. Set pointer to 600 kc/s point on the dial, and adjust T3 until 600 kc/s signal corresponds. Set pointer to 1000 kc/s point on dial and adjust T1 until 1000 kc/s signal corresponds. Repeat procedure until calibration is correct.

### R.F. Alignment.

A signal generator modulated 30 per cent. at 400 cp/s is coupled to the ant. by means of a standard dummy ant. Set pointer to 1400 kc/s and generator to 1400 kc/s adjust T1 for maximum output, set pointer to 600 kc/s and generator to 600 kc/s adjust T2 for maximum output. If calibration has been accurate 1000 kc/s should be in alignment. Adjust intermediate points by means of forming gang cords; checking all previous adjustments.

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Don't forget the GREAT

# RADIO BALL

METROPOLE CABARET,

— AUCKLAND —

THURSDAY, 24TH AUGUST, 1950

Dancing 8 p.m. to 1 a.m.

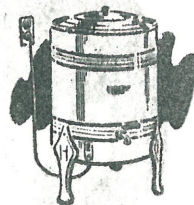
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