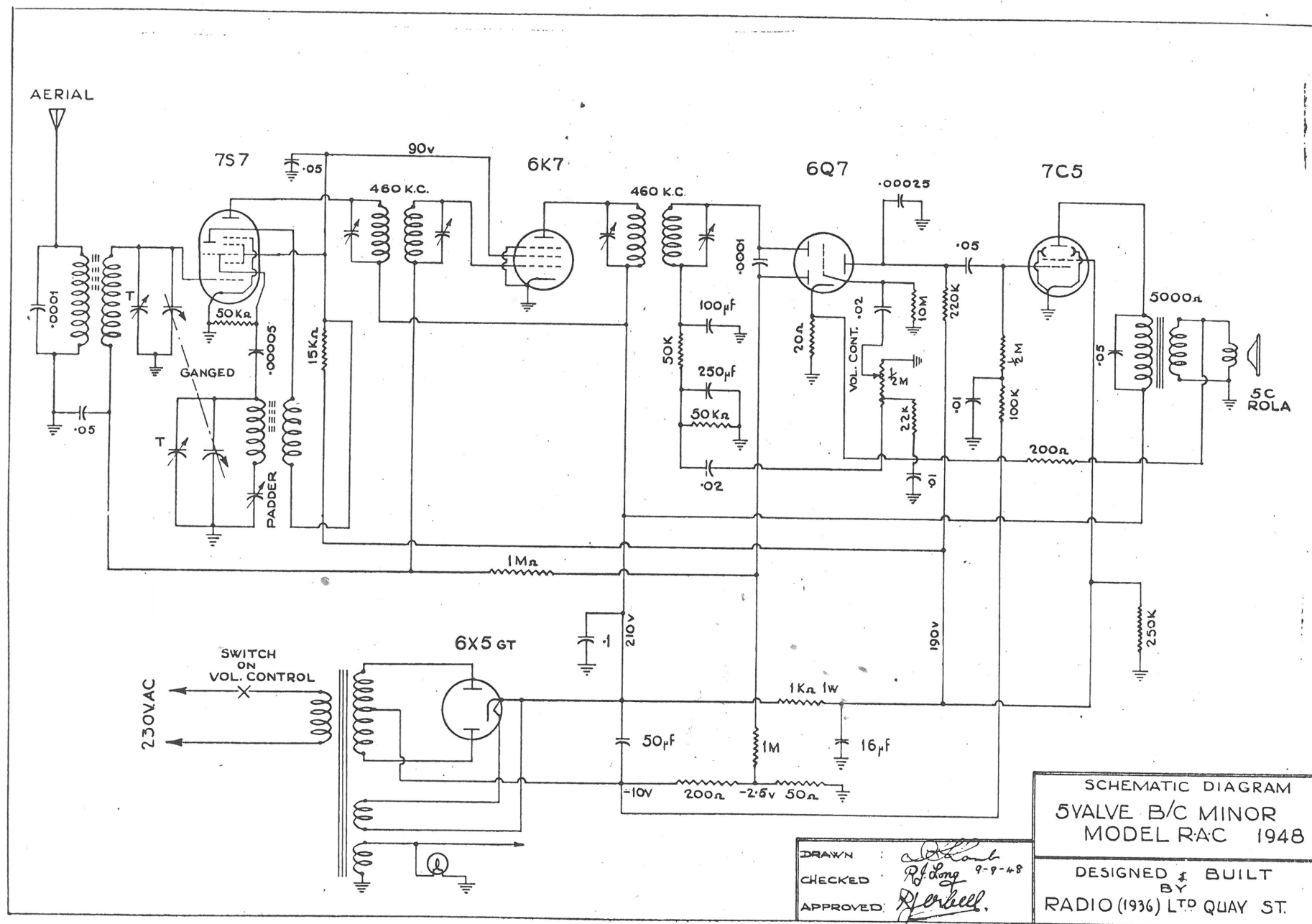






In case of instability
if osc. add 25k Ω 25
across tank bias

Hand-drawn circuit diagram of a common-emitter amplifier. The input is 11V AC. The base is biased with a 50V DC source and a 1K resistor. The emitter is grounded through an 8 ohm resistor. The collector is connected to a 10.5K resistor and a 16V DC source. The output is taken from the collector, labeled "B+ o/p" and "A + out of vol".

RAC
MILK

TECHNICAL	INFORMATION	MODEL	RAC
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DESIGNED & BUILT BY
RADIO (1936) L^{TD}.

5.V. RADIOGRAM "MITRE"

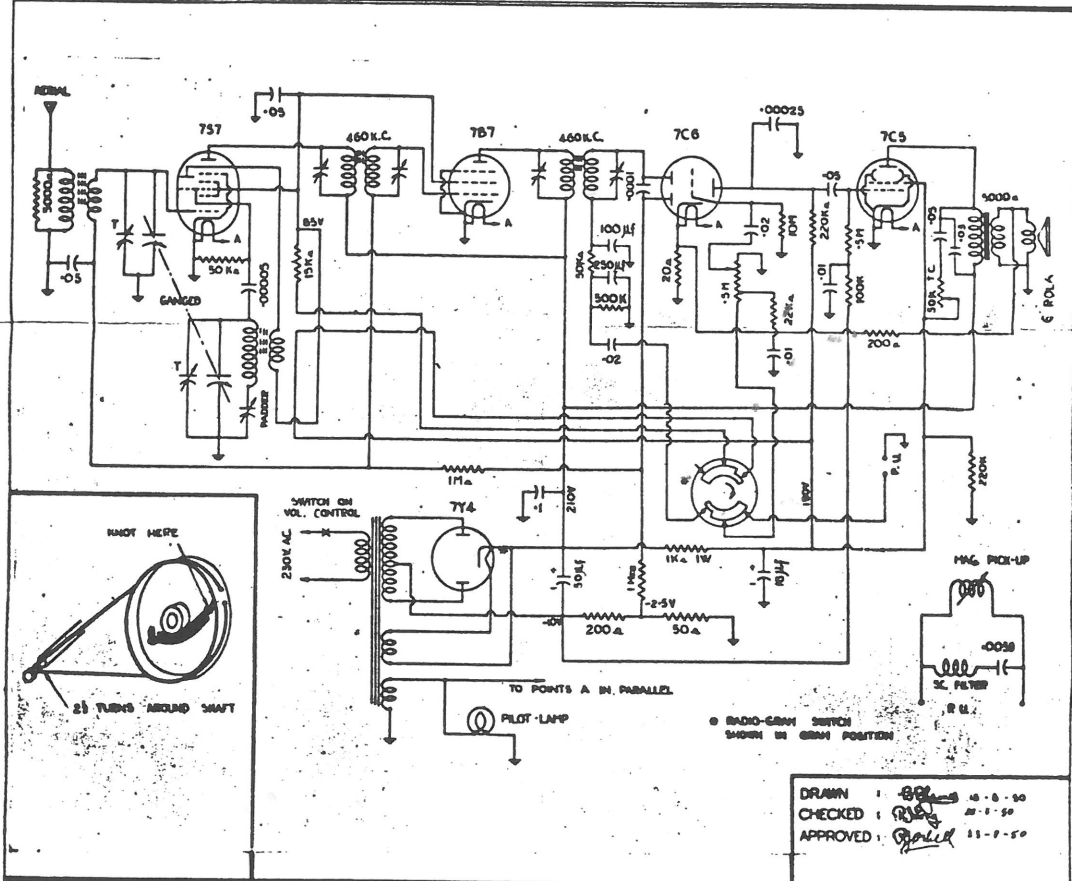
QUAY ST. AUCKLAND N.Z.

230 VOLTS 50 CYCLES

CIRCUIT : MIXER - I.F. - 2nd DETR. - OUTPUT - RECTIFIER

TUNING RANGE : STANDARD BROADCAST

POWER OUTPUT : 3 WATTS FROM 6" ROLA SPEAKER



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. A.C.	210V. D.C.	85V. D.C.	-7-8V. D.C.	85V. D.C.	-1-5V. D.C.	O	O
7B7	6-3V. A.C.	210V. D.C.	85V. D.C.	O	O	-1-5V. D.C.	O	O
7C6	O	110V. D.C.	-1V. D.C.	O	-6V. D.C.	-1-5V. D.C.	O	6-3V. A.C.
7C5	O	210V. D.C.	180V. D.C.	O	-13V. D.C.	-13V. D.C.	O	6-3V. A.C.
7Y4	210V. D.C.	O	180V. A.C.	O	O	180V. A.C.	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 μ f. condenser. The trimmers should be adjusted for maximum output in the following order.

R.F. 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 T2 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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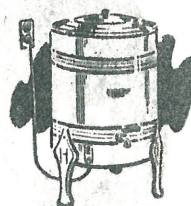
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