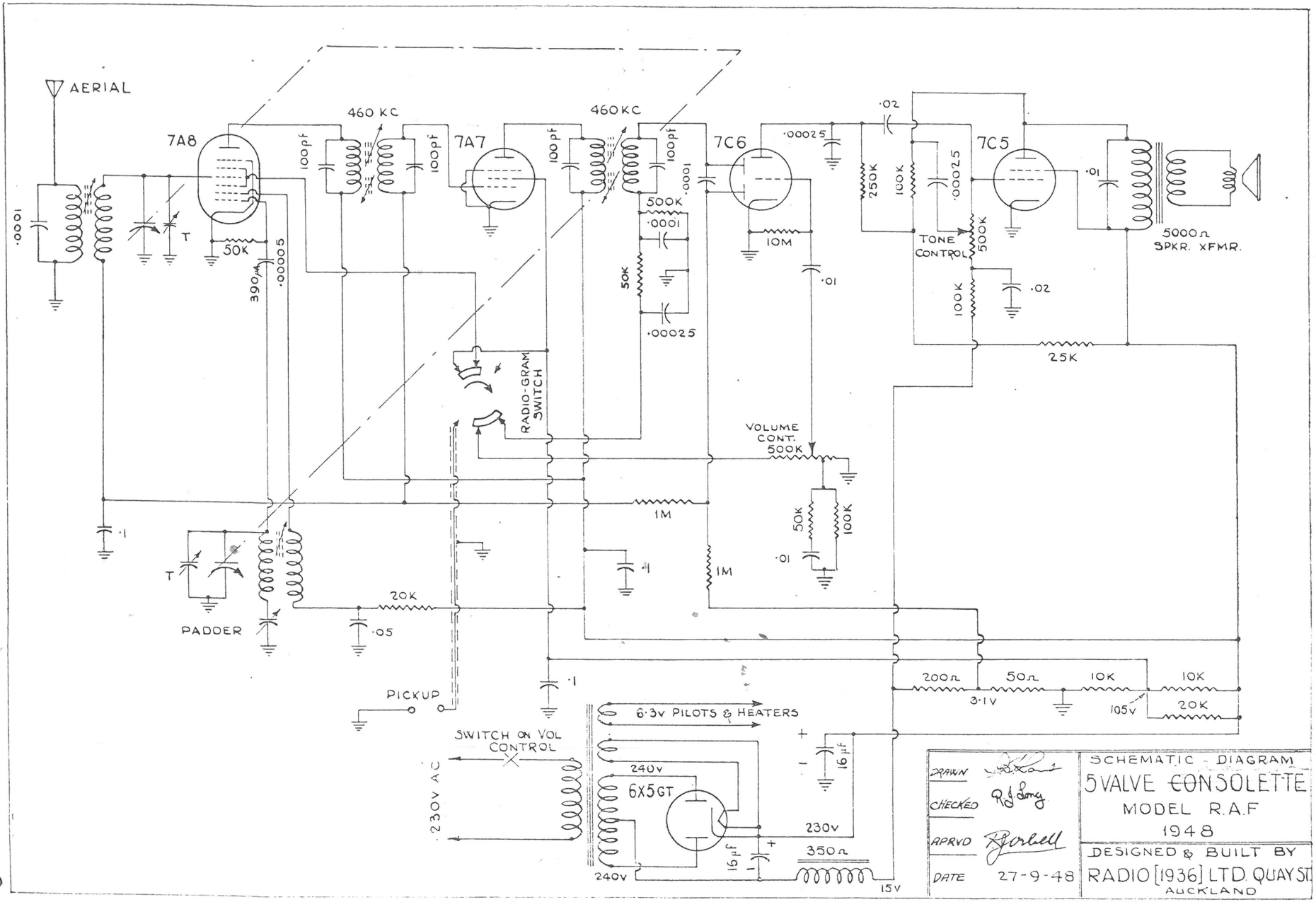

DRAWN		SCHEMATIC - DIAGRAM
CHECKED	R.J. Long	5 VALVE CONSOLETTE
APRVD	R. Birbell	MODEL R.A.F
DATE	27-9-48	1948
		DESIGNED & BUILT BY
		RADIO [1936] LTD. QUAY ST. AUCKLAND

RAF

FOR THE SERVICEMAN

ULTIMATE 5-VALVE RADIOGRAM CONSOLETTE MODEL R.A.F.

Circuit:

A type 7A8 octode frequency changer is followed by a type 7A7 R.F. pentode employed as an intermediate frequency amplifier which is in turn coupled to a type 7C6 duo diode triode combining the functions of demodulation, a.v.c. rectification and voltage amplification. Resistance coupled to this stage is a type 7C5 beam power amplifier delivering approximately 4.2 watts to a Rola type 8H speaker. A type 6X5GT is employed in the power supply as a full-wave rectifier.

The gramo motor used is a Garrard type AC6 type E and the pickup is a Garrard magnetic type.

I.F. Alignment Procedure:

A signal generator modulated 30 per cent. at a frequency of 400 cp/s is coupled between the control grid of the 7A8 frequency changer and ground by means of a 0.1 μf. condenser. I.F. transformer should be adjusted for maximum output by means of the iron cores in the following order, I 6, I 5, I 3, I 4. An input of approximately 50 μv. should produce an output of 50 milliwatts.

Calibration:

Adjust 1400 kc/s. point by means of trimmer T2 and 600 kc/s point by means of padder T3. Adjust 1000 kc/s point with iron core I 2. Intermediate points should be checked and oscillator section of ganged condenser fanned to correct frequency.

R.F. Alignment:

A signal generator modulated 30 per cent. at 400 cp/s is coupled to the antenna and earth leads by means of a standard dummy antenna.

Adjust 1400 kc/s point by means of trimmer T1 and 600 kc/s point by means of iron core I 1.