

## MODEL T<sub>43</sub>DA (“ COMPANION ”)

**General Description :** Four-valve (including rectifier), two-waveband, transportable receiver with ferrite-rod aerial.

**Power Supply :** A.C./D.C. mains, 200–250 volts (three adjustment tappings), consumption approximately 40 watts.

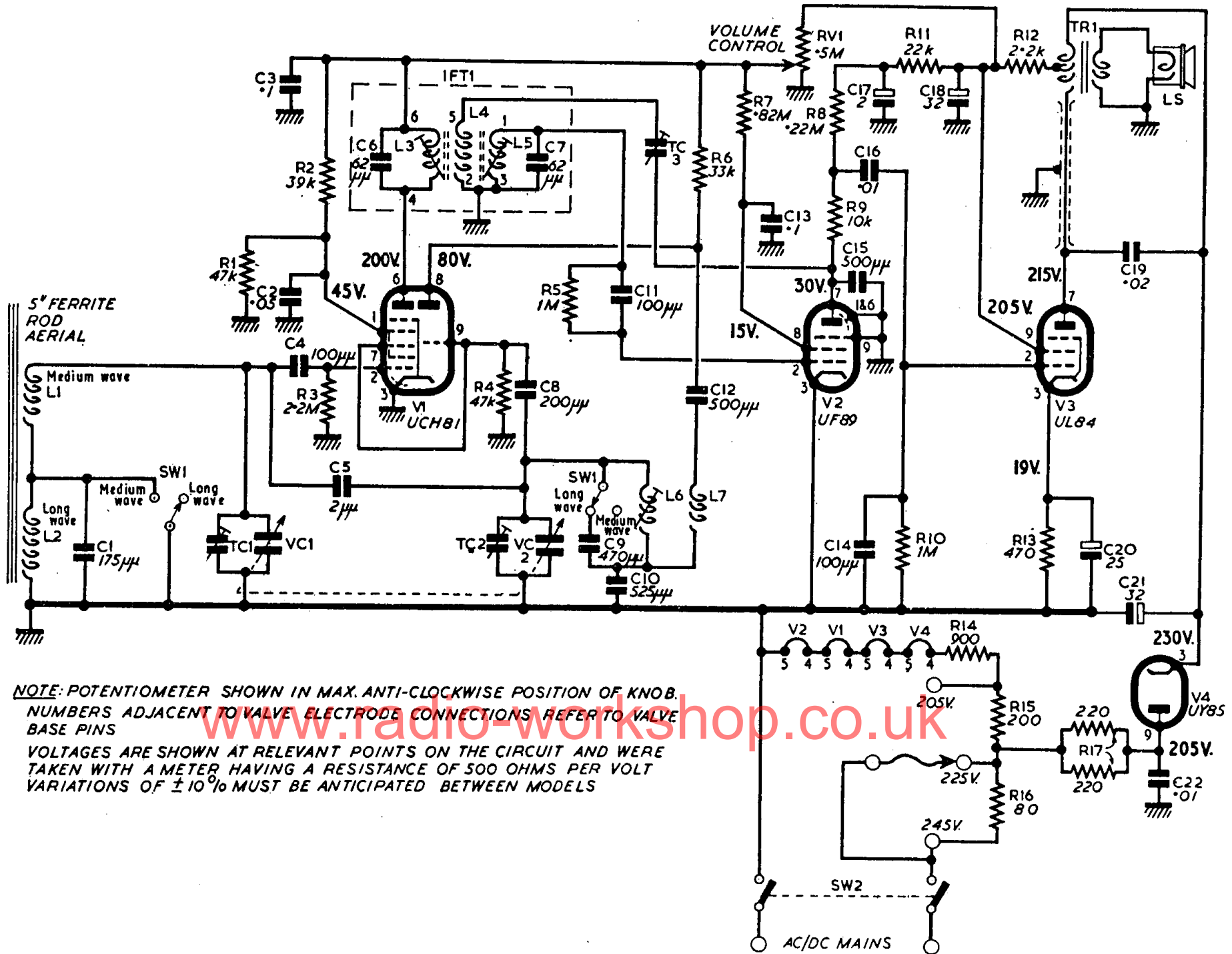
**Wavebands :** M.W. 187–560 m.; L.W. 900–2000 m.

**Valves :** (V<sub>1</sub>) UCH81; (V<sub>2</sub>) UF89; (V<sub>3</sub>) UL84; (V<sub>4</sub>) UY85.

**Intermediate Frequency :** 470 kc/s.

**Circuit Notes :** V<sub>2</sub> functions as a leaky-grid, regenerative detector, positive feedback being introduced by means of a third winding in the I.F. transformer and being controlled by the pre-set capacitor TC<sub>3</sub>. The volume control is a potentiometer governing the voltages applied to V<sub>1</sub> and to the screen-grid of V<sub>2</sub>. The output transformer has a hum-cancellation winding.

CIRCUIT DIAGRAM—MARCONIPHONE MODEL T43DA (“COMPANION”)



NOTE: POTENTIOMETER SHOWN IN MAX. ANTI-CLOCKWISE POSITION OF KNOB.  
 NUMBERS ADJACENT TO VALVE ELECTRODE CONNECTIONS REFER TO VALVE  
 BASE PINS  
 VOLTAGES ARE SHOWN AT RELEVANT POINTS ON THE CIRCUIT AND WERE  
 TAKEN WITH A METER HAVING A RESISTANCE OF 500 OHMS PER VOLT  
 VARIATIONS OF  $\pm 10\%$  MUST BE ANTICIPATED BETWEEN MODELS

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