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## IM-18

The VTVM (Vacuum Tube Volt Meter) **IM-18** came on the market in 1968 and was produced until 1976. It was the successor of the **IM-11** that came on the market in 1961, that in turn was the successor of the **V-7** and **V-7A**. There is only minor differences between the **IM-11** and the **IM-18**, mostly it is about new look and color. In 1977 the **IM-18** was replaced by the **IM-5218** and was produced until 1983. Again it was only a new look and color. The VTVM **V-1** was one of the first **Heathkits** that came on the market in 1947, just after the oscilloscope **O-1**. The circuitry is very similar in all the VTVM's. The **V-7** was the first with the components mounted on a printed circuit board.

My VTVM is marked as the **IM-18E** model. The **E** stands for Export and means that it is meant for 115/230V supply voltage. I have slightly modified my **IM-18**. I have connected the chassis to mains ground and isolated the negative terminal and the internal framework from the chassis so that floating measurements can be taken. The ¼" connector is replaced with a ground terminal and the probe resistor is placed inside the VTVM. I have modified my **IM-11** in a similar way.



*The schematic of the original unmodified IM-18*

*The schematic of the modified IM-18*







