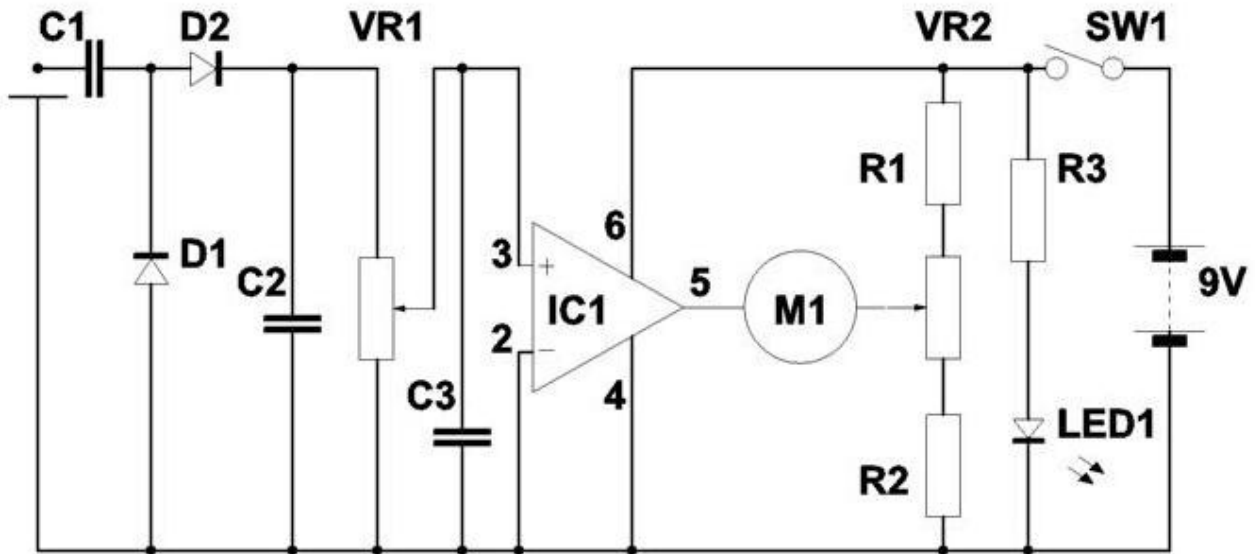


SADARS Field Strength Meter

April 2017

Build Notes



Circuit by Drew Diamond

VK3XU

Component list

C1 10pF

C2, C3 10nF

D1, D2 OA90

VR1 100K Log- Gain

VR2 470R Lin- Meter Zero

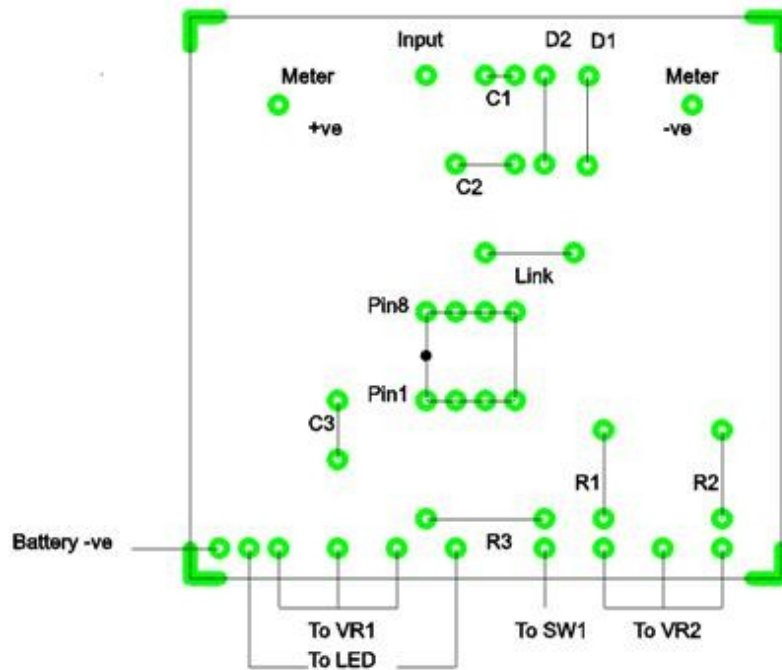
IC1 LM386

M1 1mA meter

R1, R2 3k3

R3 1k5

1. Drill the PCB. No pins are used. We will solder wires directly to the board.
2. Drill the two holes for the meter terminals in the larger pads with a 5mm diameter drill bit.
3. Fit the single wire link.
4. Fit the IC socket. Bear in mind its orientation. The mark at the end corresponds to pin 1.
As before, scrape the pins to brighten them before soldering.
5. Solder 3 resistors, 3 capacitors and 2 diodes. Bend the diode leads close to the glass body and avoid overheating them. Germanium diodes are a bit more delicate than silicon ones. (Borrow a heatsink). The PCB was designed for 1N34A germanium diodes which are a little shorter than OA90s. However the prototype was rather insensitive using 1N34As. The diodes can safely be left slightly above the PCB surface so that the leads are not unduly strained. Remember, the marked bar on the diode and on the circuit corresponds with the cathode.



Component Placement

The missing connection, not shown is a wire from the switch direct to the battery +ve

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