Magnetic Pole Tester

<https://github.com/penoel/Magnet_Pole_Tester>

A picture containing green, indoor

Description automatically generated

The Magnetic pole tester does what its name states it test the pole of a magnet. It does this by using a latching hall sensor, so when a magnet moves close it senses the pole and stays on it until it senses a new pole.

A picture containing indoor, several

Description automatically generated

The Magnetic Pole Tester kit contains the following components:

* 1 – PCB
* 1 – Red led
* 1 – Blue led
* 1 – Switch
* 1 – Hall sensor
* 1 – Battery holder
* Take the pcb and hall sensor out.
* Bend the hall sensor legs enough for it to fit in the pcb.
* Put it in the holes and bend the sensor onto the silkscreen making sure the numbers are point up on the sensor.
* Tape the sensor and flip the pcb over. Solder the legs and clip the extra off.
* Put ther red led in the north hole making sure the flat side of the led matches the pcb.
* Solder and clip the legs.
* Repeat for the south blue led.
* Put the switch in and tape it down. Solder and clip legs.
* Tape the battery holder down. Solder and clip legs.
* Insert the battery.

**Magnetic pole tester operation**

You can bring any magnet close to the sensor and test the pole. You can also put the magnet on the opposite side and see the pole switch.

Diagram

Description automatically generated with medium confidence