Simple Steps to Produce a Strong Electromagnet by James

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Electromagnet is simply coils of wire around a metallic core that form a magnetic field when electricity is passed through them. They can be used in a variety of devices that comprise cars to computer hard drives. There are lot many things that one need to consider while designing such a piece that the mere core and wires. A basic homemade electromagnet consists of a copper wire coil wrapped around some sort of metal core. The stronger the electromagnet, the more paper clips, nails and other objects you can pick up with it. To prepare such a strong electromagnet you need ferrite rod, copper wire, soldering iron, solder and tape.

Take the ferrite rod that will act as the magnetic core of the Electromagnet. In general, it is a fact that iron nails or railroad spikes are used to prepare such electromagnet when prepared at home but it is undeniable that the magnetic field for a ferrite rod will be much stronger.

Then the copper wire should be strapped across the entire ferrite rod as tightly as possible. The wire should be wrapped in one single direction only. Be careful that there is no overlapping of the wires. The wires should be fastened to the rod at the ends with the tape. After you reach at the end points of the wires, run the wire straight down to where you began and commence once more, coiling it in the similar direction to the top. You should have two parallel spirals of wire going from the bottom to the top of the core. The Electromagnet should be properly covered with the tape so that the wires are held in their accurate positions and do not slip in course of the action. The free ends of the wires should be soldered to a variable DC power supply. The voltage should be at 5v and the minimal use of electricity is always recommended.

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