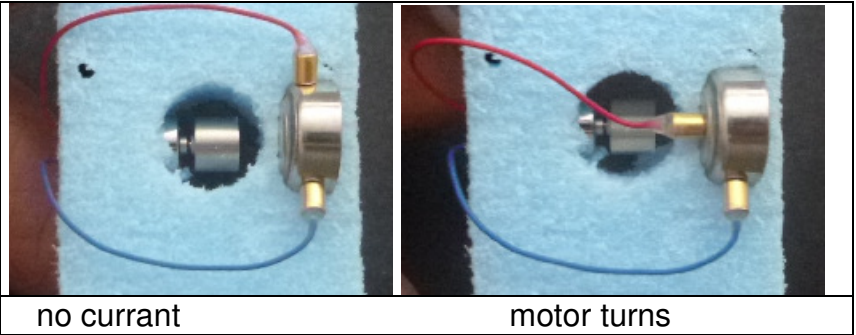


Soldering a magnet on motor wires

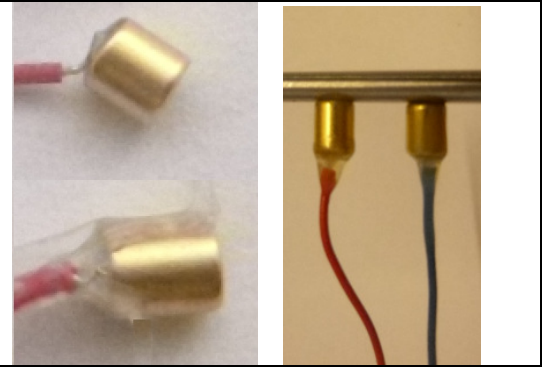
- <https://www.didel.com/WiresWithMagnets.pdf>

The objective is to establish the contact on a CR44 simply moving the magnets on wire extremities.



We have tried to solder the wire on the side, more easy but bad for moving the wire on the battery.

We have used hot glue to avoid that the wire breaks easily close to the solder. Difficult to get a nice drop with hot glue. We put a drop of white glue (for wood) and suspended on a steel rod during drying.

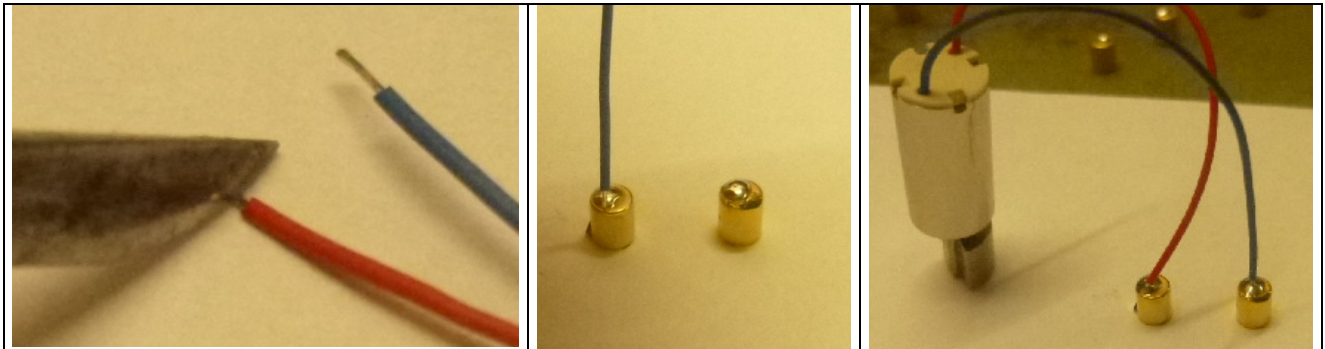


For the Milpat application, motors with 40mm wires must be used, 6mm dia, 30 Ohm resistance.

The tinned part must be shorted to 0.5mm.

The magnet is put on a steel plate that will cool the bottom half of the magnet. The top part will lose some magnetization due to the heat of the soldering iron.

A drop of solder is put on the top of the magnet. The drop is heated again and the white quickly pushed on the drop. A thin solder tip must be used, a large one will bring too much heat.



Decide magnets orientation according to the color of wire. Red or green is positive voltage. Black or yellow negative. We decided that a magnet attached to a red wire attract the north pole needle of a compass (usually painted in red).

