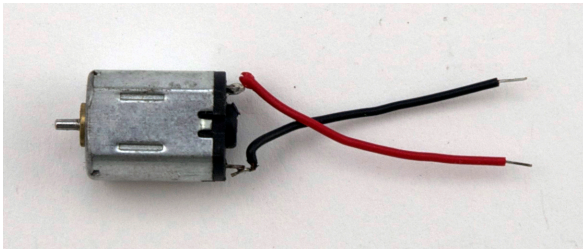


Soldering Leads to the DC Motor

EAS 199A
Lecture 9
Fall 2011

Overview

The DC motor that comes with the Arduino Experimentor's Kit has short and delicate leads. We need to replace the leads with more robust wiring and soldered connections



Temperature-controlled soldering iron and flux



Soldering work surface with vise



Soldering: EAS 199A

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Helping Hands



Soldering: EAS 199A

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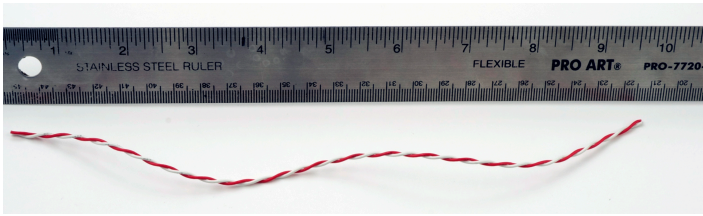
Procedure

1. Cut a length of wire
2. Strip and tin the ends of the wire
3. Make note of polarity and remove old leads
4. Insert tinned wire through tabs and bend into position
5. Secure leads by soldering to motor tabs

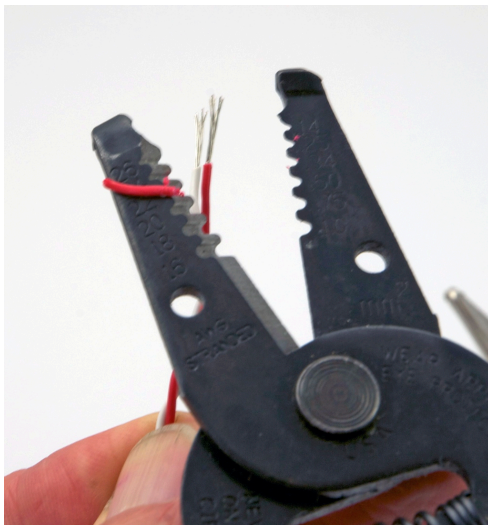
Soldering: EAS 199A

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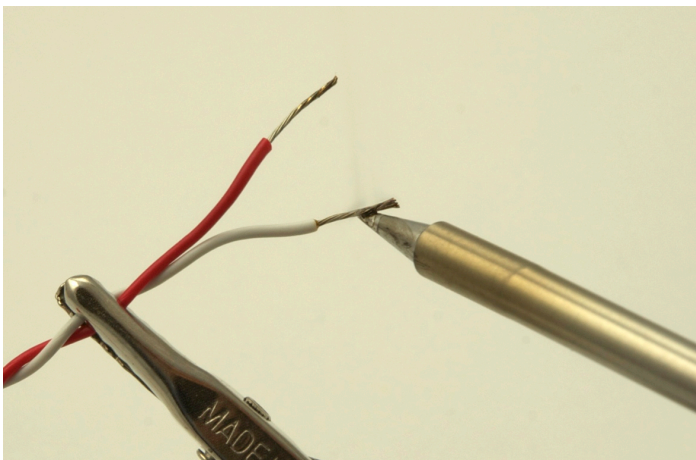
Cut new lead wires



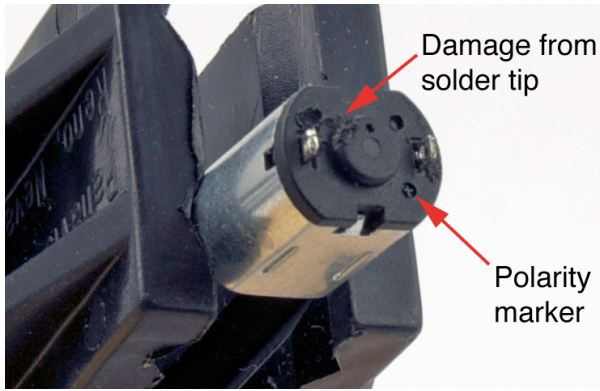
Strip the leads



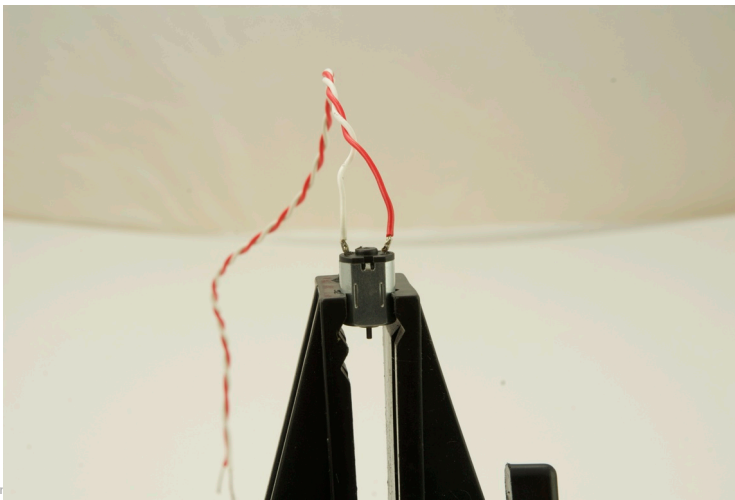
Tin the leads



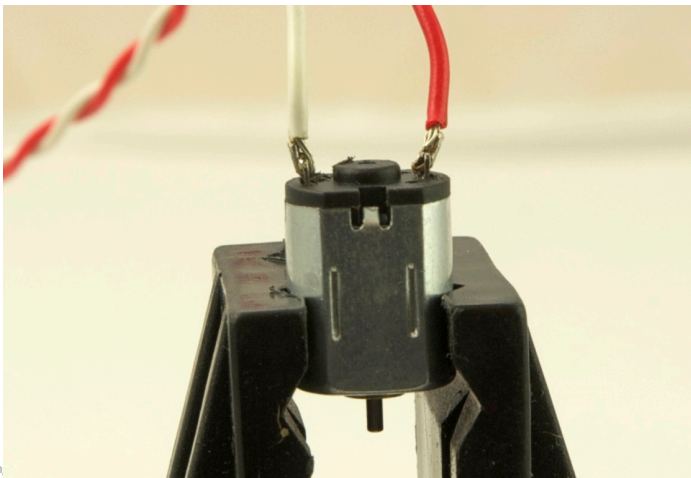
Remove the old leads and note the polarity



Motor supported. Extension wires in place



Bend the tinned wires around the supports



Secure the leads with solder

