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

Helping Hands

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
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