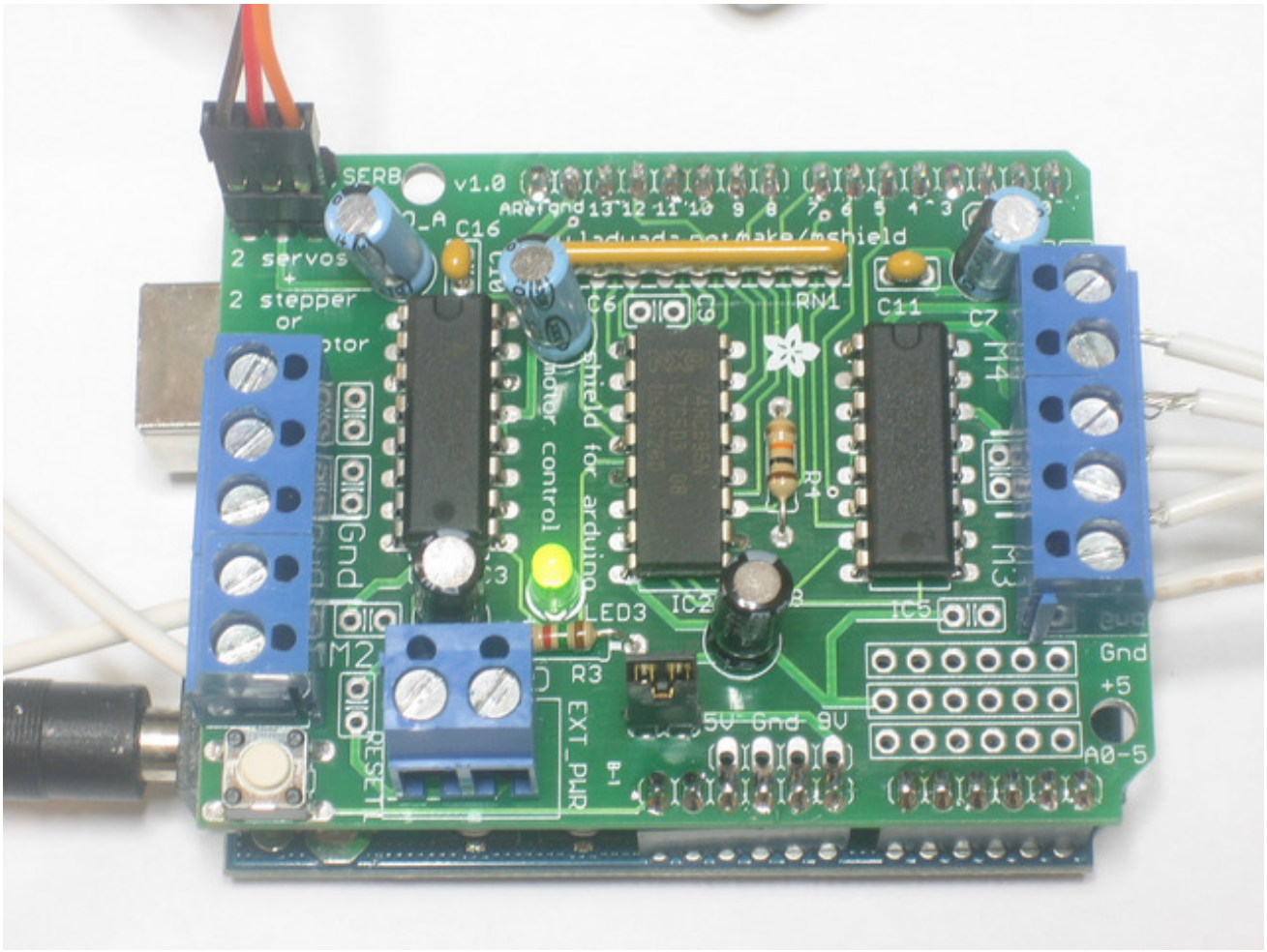
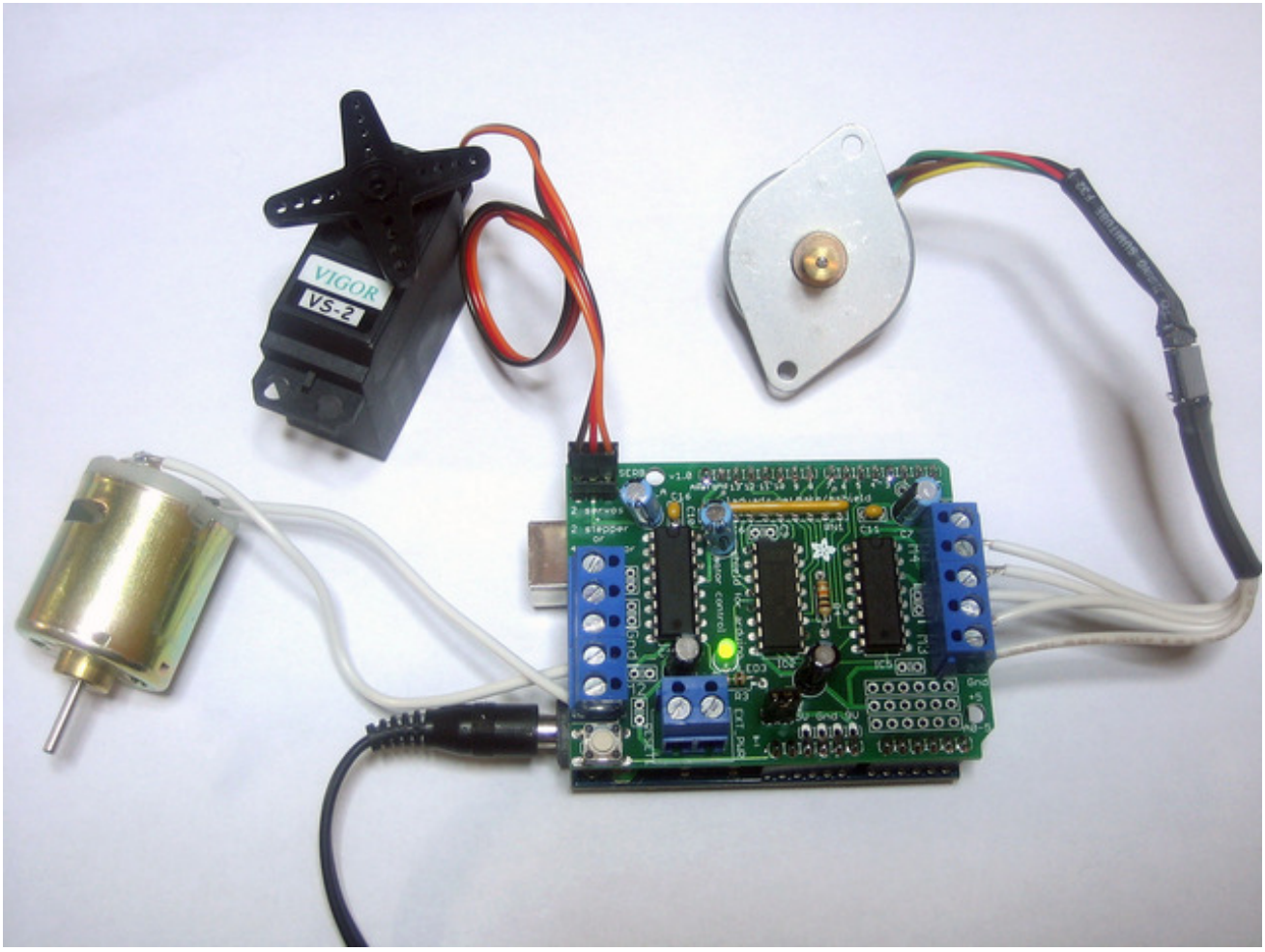
Overview

This tutorial is for the now ancient V1 Motor shield. Chances are you have a V2, check out the tutorial https://learn.adafruit.com/adafruit-motor-shield-v2-for-arduino This tutorial is for historical reference and previous customers only!



Arduino is a great starting point for electronics, and with a motor shield it can also be a nice tidy platform for robotics and mechatronics. Here is a design for a full-featured motor shield that will be able to power many simple to medium-complexity projects.

- **2 connections for 5V 'hobby' servos** connected to the Arduino's high-resolution dedicated timer - no jitter!
- **Up to 4 bi-directional DC** motors with individual 8-bit speed selection (so, about 0.5% resolution)
- **Up to 2 stepper motors** (unipolar or bipolar) with single coil, double coil, interleaved or micro-stepping.
- 4 H-Bridges: L293D chipset provides 0.6A per bridge (1.2A peak) with thermal shutdown

protection, 4.5V to 25V

- Pull down resistors keep motors disabled during power-up
- Big terminal block connectors to easily hook up wires (10-22AWG) and power
- Arduino reset button brought up top
- 2-pin terminal block to connect external power, for seperate logic/motor supplies
- Tested compatible with Mega, Diecimila, & Duemilanove
- Full kit available for purchase from the Adafruit shop. (http://adafru.it/81)
- Download the easy-to-use Arduino software libraries and you're ready to go! (http://adafru.it/aON)