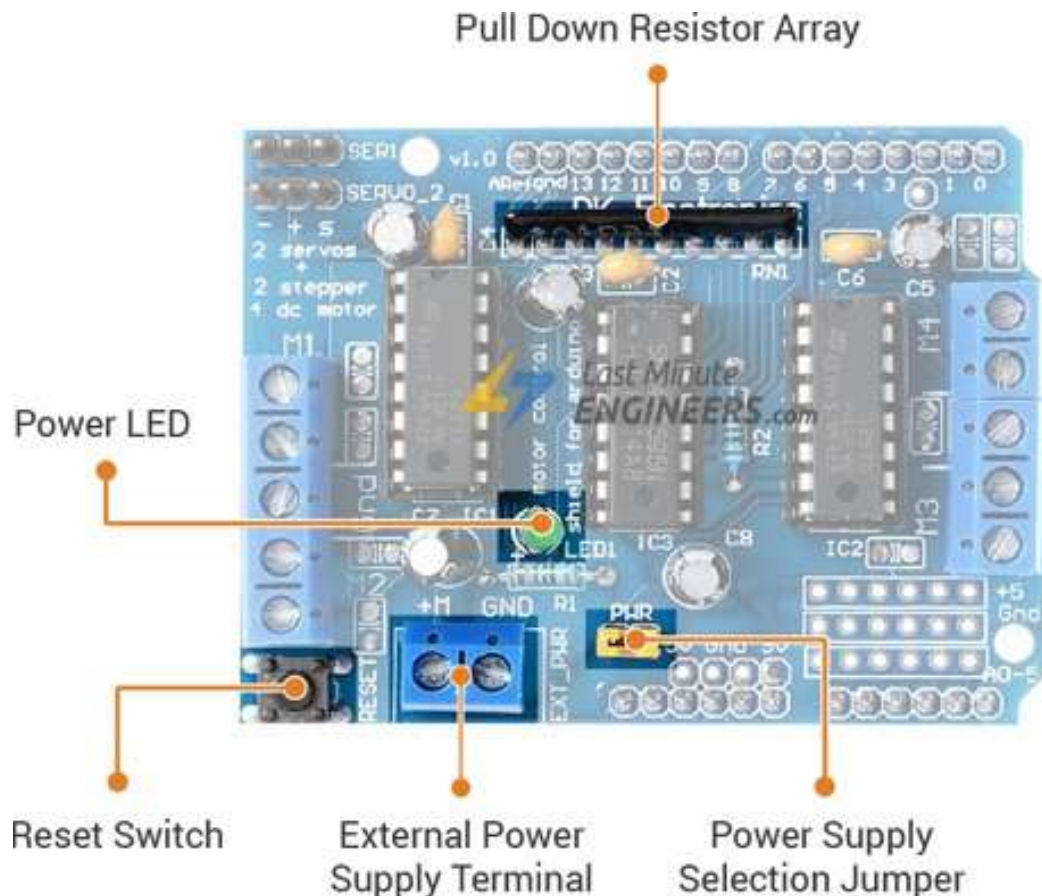# DBL Embedded Systems L293D Motor Shield Guide
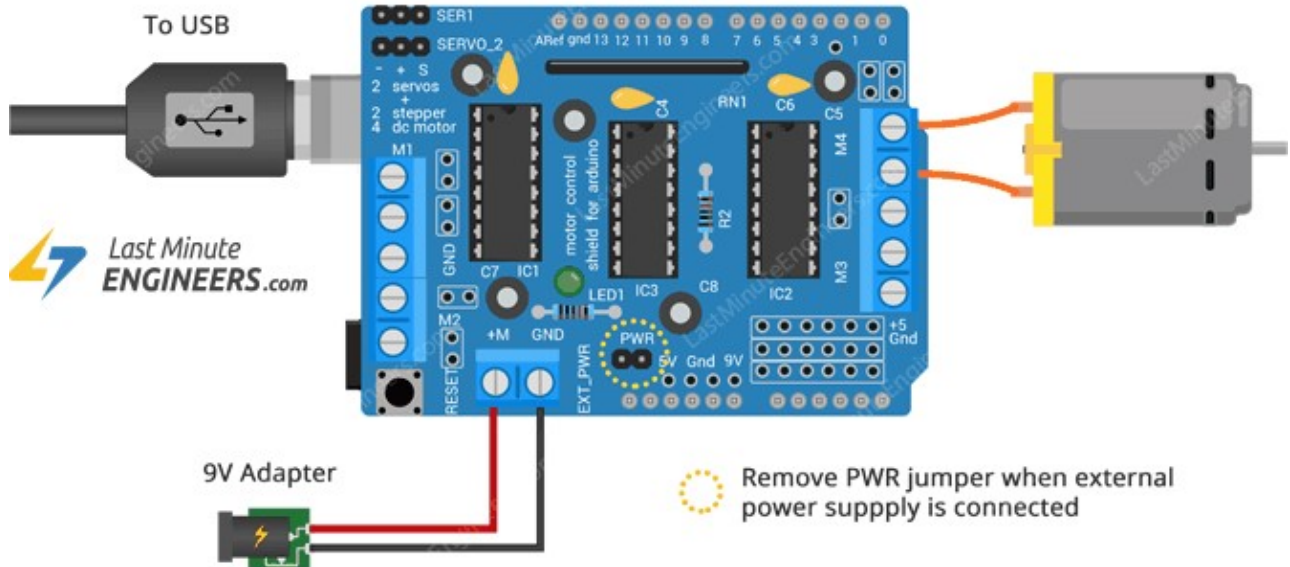
General Properties

- The driver can drive up to 4 DC motors and 2 stepper or servo motors at the same time.
- Each channel of this module has the maximum current of 1.2A.
- It doesn't work if the voltage is more than 25V or less than 4.5V.
- 8-bit speed selection from 0 to 255

Power Supply

Raspberry Pi is powered with USB cable. The driver and motors are powered with an external power supply. In this case, do not use jumper on PWR! Connect the external power supply to EXT_PWR.
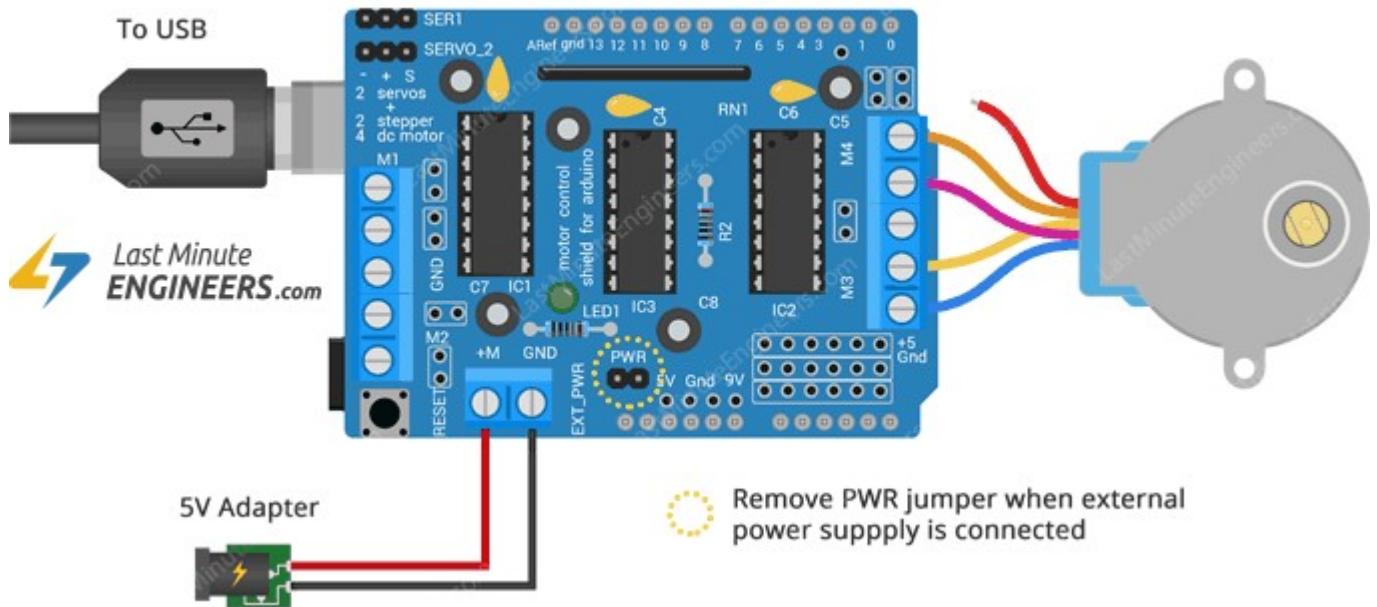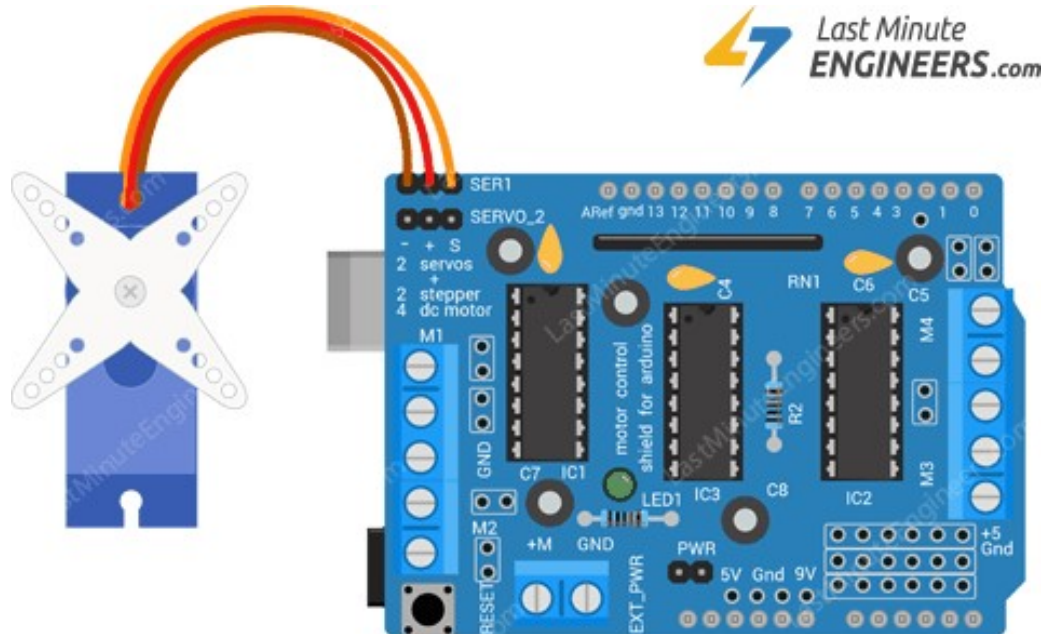
Driving DC Motors

See the document "example_code_dcmotors.txt" in the folder week 2/Guide L293D.

Driving Stepper Motors

See the document "example_code_steppermotors.txt" in the folder week 2/Guide L293D.

Driving Servo Motors

See the document "example_code_servomotors.txt" in the folder week 2/Guide L293D.

Library: See the library documents "Adafruit_motor_driver_library" in the folder week 2/Guide L293D.

References:

https://lastminuteengineers.com/l293d-motor-driver-shield-arduino-tutorial/

https://www.instructables.com/Arduino-L293D-Motor-Driver-Shield-Tutorial/