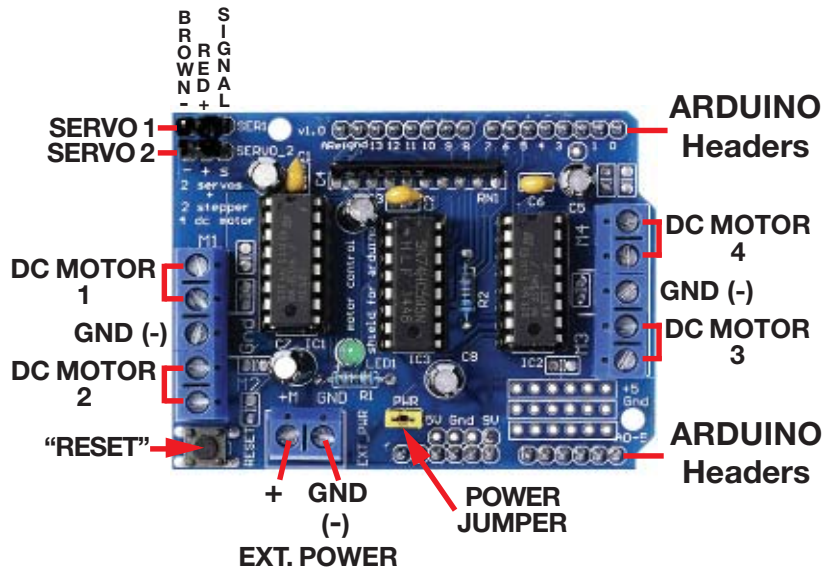


# 30292-MP

## Arduino Motor Shield

Full featured motor drive board for connecting Servo, DC and Stepper motors to a Arduino. Plugs directly onto controller. Freeware available through [www.arduino.cc/en](http://www.arduino.cc/en) and others on-line. Power: 5VDC Logic. External Motor 4.5-15V Input: Arduino (.1") headers for direct connection  
Outputs: .1" headers for 2 Hobby 5V Servos Terminal Strips for: 4 L293D "H" bridge @ .6A/bridge  
Drives: 2 Bi or Uni-Polar Step Motors, 4/5/6/8 wire or 4 DC motors.  
Compatible with Mega 1280/2560, UNO, Duemilanova & Diecimila.  
L: 2-5/8" W: 2-1/8" H: 1/2" WT: .14



### STEPPER MOTOR(S)

**Step Motor 1:** Connect Phase 1 to Motor 1 & Phase 2 to Motor 2 (or Motor 3 & 4)

**Step Motor 2 If Used):** Connect Phase 1 to Motor 3 & Phase 2 to Motor 4

### POWER: 3 Methods:

**NOTE: ALL "GNDs" (-) are Common**

**1:** Single DC power supply for the Arduino & motors: **NOTE:** Only if Motor supply voltage is less than 12V. Use the DC jack on the Arduino **or** the 2-pin EXT\_PWR terminal strip on the shield. Place the **Power Jumper** on the motor shield.

**2:** Arduino powered through USB & the motors using separate DC power supply: **(Recommended)**

To have the Arduino powered by the USB and the motors powered from a DC power supply:

Connect a USB cable to Arduino. Then connect the motor supply to the EXT\_PWR terminal strip on the shield.

**Make sure the Power Jumper is removed from the motor shield.**

**3:** Two separate DC power supplies for the Arduino & motors:

Connect the supply for the Arduino into the Arduino DC jack.

Then connect the motor supply to the EXT\_PWR terminal strip.

**Make sure the Power Jumper is removed from the motor shield.**

### Usefull info: Software & Hints

<https://github.com/adafruit/Adafruit-Motor-Shield-library>

<https://learn.adafruit.com/arduino-tips-tricks-and-techniques/arduino-libraries>

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

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