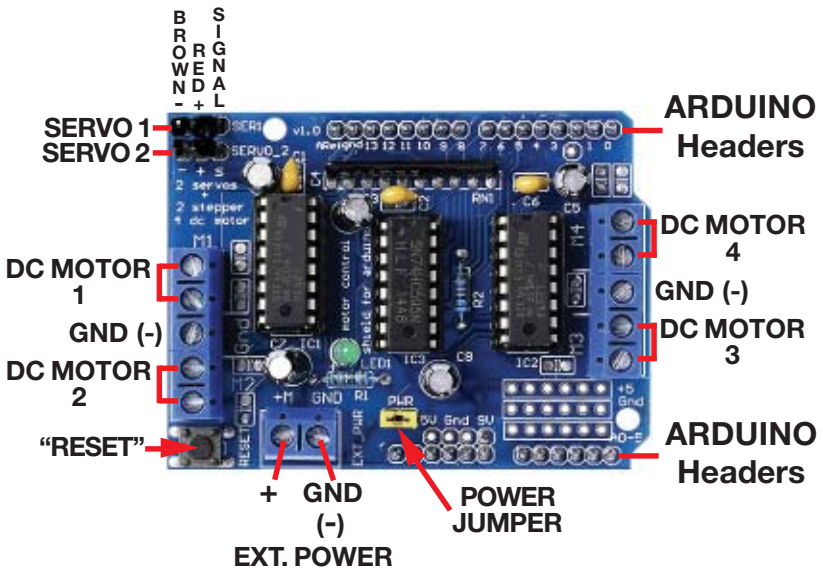
30292-MP

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 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.
Compatable 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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