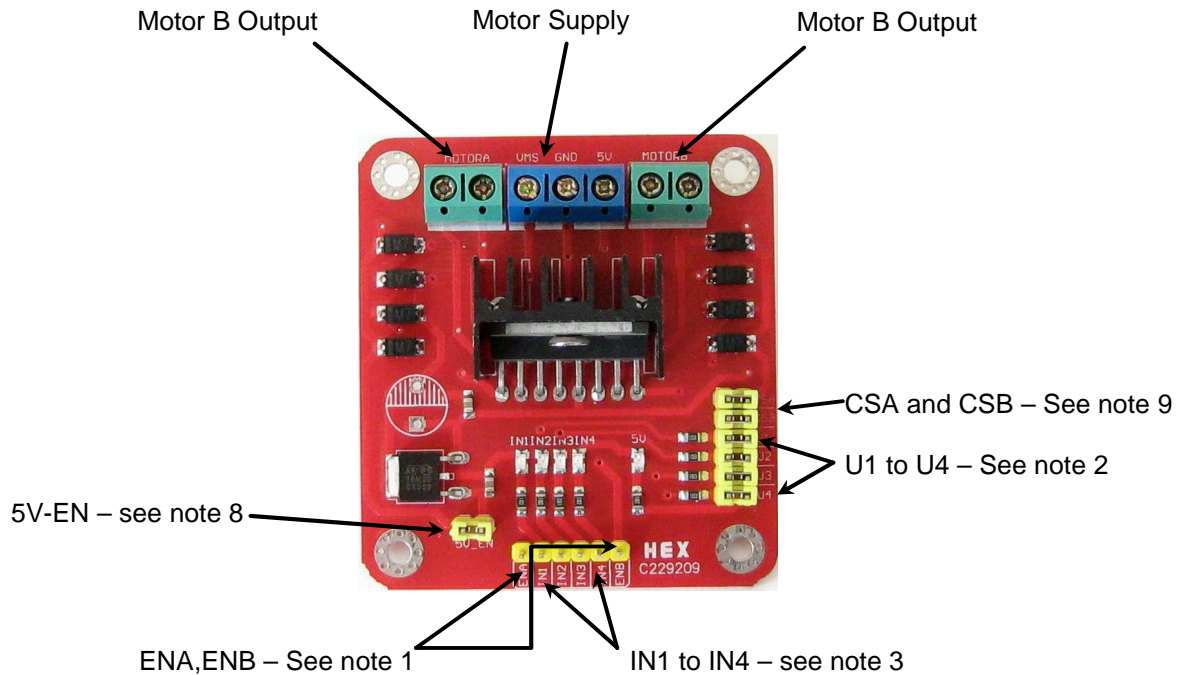


L298N Dual H Bridge DC Motor Driver

A low-cost motor driver based on the L298 dual H-bridge IC. This module will allow you to drive 2 DC motors independently (or 1 two-phase bipolar stepper motor) using logic-level inputs from an Arduino or other microcontroller board.

A 5V regulator is included onboard along with an output to power your board or project without a separate regulator.

All important pins are broken out to terminal blocks or 0.1" centered headers.



Operating Instructions:

Attach motor pins to the relevant motor terminal block(s) (see pinout below)

Remove jumpers U2 and U4

Apply 7-46V DC to the VMS pin on the module and connect ground to GND

To enable bridge A (motor A) apply 5V to ENA; to enable bridge B (motor B) apply 5V to ENB

Notes:

1. ENA and ENB enable the H-bridges A and B, respectively.
2. Jumpers U1-U4 allow for easily tying IN1-IN4 to 5V. To allow for full control of the H-Bridges remove these jumpers.
3. IN1 and IN2 control bridge A; IN3 and IN4, bridge B. The following example specifies control of bridge A using IN1 and IN2, but the same logic applies using IN3 and IN4 to control bridge B
4. To move the motor forward: IN1=H, IN2=L, ENA=H.
5. To move the motor backwards: IN1=L, IN2=H, ENA=H.
6. To quickly stop the motor: IN1=L, IN2=L, ENA=H **OR** IN1=H, IN2=H, ENA=H.
7. To slowly stop the motor (free-run stop): ENA=L (IN1 and IN2 ignored).
8. The 5V_EN jumper enables the onboard regulator.
9. The CSA and CSB pins are the current sense pins for bridge A and bridge B and can be used to sense the motor current. These are also broken out to jumpered headers. If not using current sense leave the pins jumpered to ground