

# 34692-MP

## DC Motor Driver

Utilizes the L298 IC driver to power motors, solenoids and the larger NEMA 14-23 steppers. Designed to be driven from a Arduino or other micro controllers. Freeware available through [www.arduino.cc/en](http://www.arduino.cc/en)

Drive Type: Dual "H" Bridge

Logic Power: 5VDC

Driver Power: 5-35VDC

Input Signal: TTL logic

Max Current: 2A/Phase (Max total power: 25W)

Onboard 5V regulator can be activated to supply Logic power when Driver Power input is between 7-35V

.1in Header pins for Logic input, Power Select

Terminal strips for Motor leads & Power.

LED for 5V Power

SQ: 1-15/16"

H: 1-1/8"

WT: .06

### ENABLE & INPUT HEADER PINS

IN2 ■

IN1 ■

ENA ■

+5V ■ **NOTE: CHECK** Factory Default: ENA & B are jumpered to Vcc Causing The Outputs to be Enabled

+5V ■ For Control by Controller: Remove Jumper(s) and connect Enable(s) to Outputs on Controller

ENB ■

IN3 ■

IN4 ■

### ENABLE & INPUT TABLES FOR OPERATION

Example for Motor A

Same applies for Motor B

ENA	IN1	IN2	Description
0	N/A	N/A	Motor OFF
1	0	0	Stopped
1	1	0	Forward
1	0	1	Reverse
1	1	1	Stopped

Setting EN Low will causes the motor to coast if running

### PWM SPEED CONTROL

Motor speed can be controlled by connecting microcontroller PWM output Pin(s) to the appropriate EN pin  
By varying the ON time by software, the motor speed can be varied. Recommend that Duty Cycle be <90%

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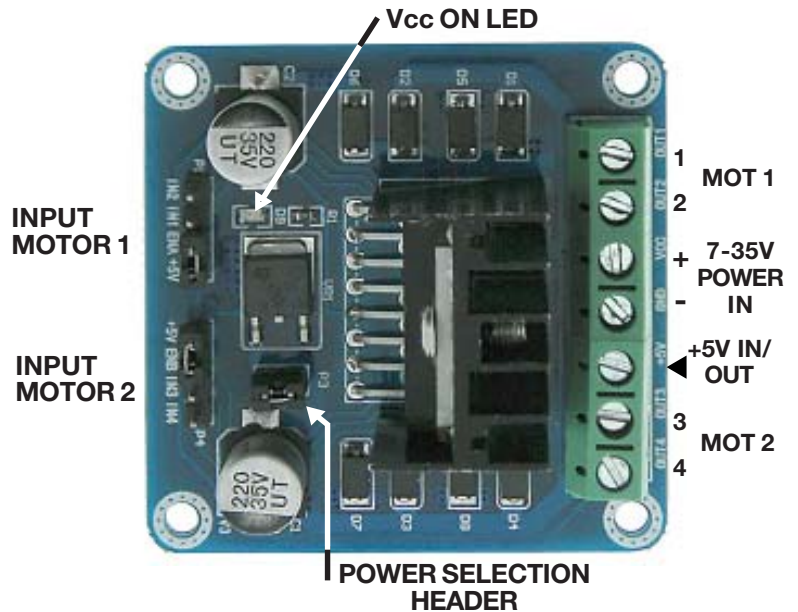


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### POWER SELECTION HEADER PINS

JUMPER SELECTION



**ON:** 7-35V Supply

Connect power to Vcc on Terminal Block  
5V Logic power supplied by on-board regulator (<1A)

**OFF:** 5V Supply to Motors & Driver

Connect 5V power to +5 on Terminal Block

**NOTE:** +5 terminal can be used to supply +5V to external circuits

**When** Power is supplied from External 7-35V Supply  
**And** Jumper is set to "ON"