

# LEGO Car - Installation and Wiring Guide

יום רביעי 28 יוני 2017 12:25

**The Guide was written by VincNL.**  
**All the pictures was taken by VincNL.**

**IF YOU SHARE/SHOW THE GUIDE, GIVE CREDIT AND MY EMAIL ADDRESS**

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If you have any question feel free to ask.

**Application:**

[ai2.appinventor.mit.edu/?galleryId=6008569739345920](https://ai2.appinventor.mit.edu/?galleryId=6008569739345920)

**Power Supplying:**

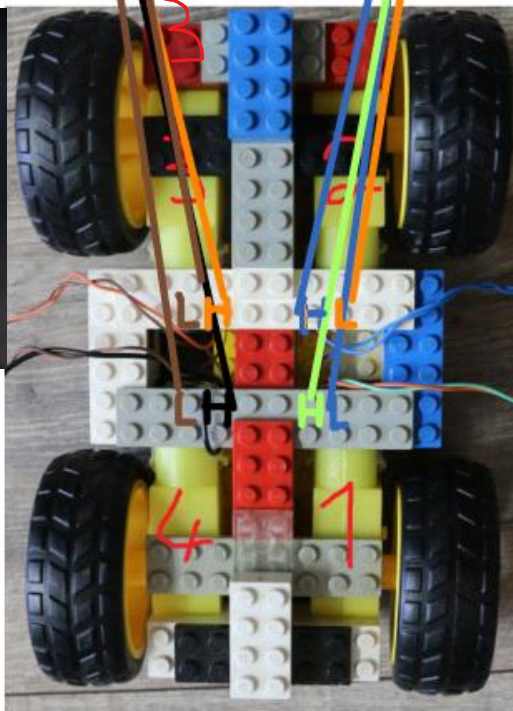
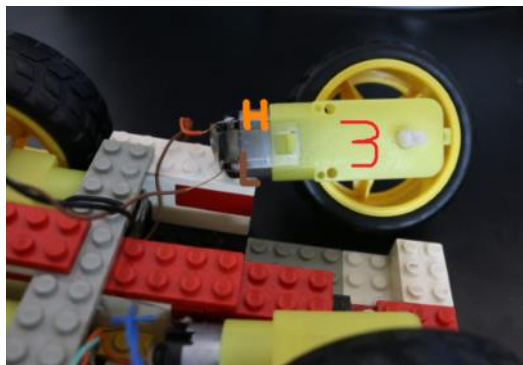
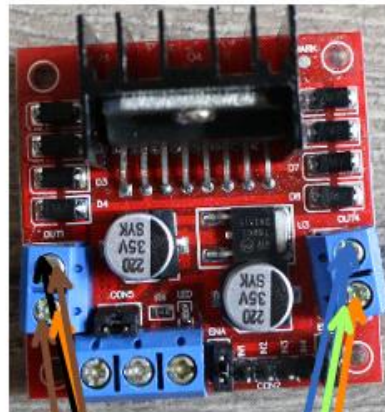
I recommend using 18650 Batteries although I'm using 6 AA batteries.

You need to wire the batterie's ground to the Arduino's ground and the +Vcc to the driver's +12v pin.

- If you're using more than 1 battery holder - like me, wire one's ground to the arduino, the +Vcc to the other battery holder's ground and it's +Vcc to the Driver's +12v pin.

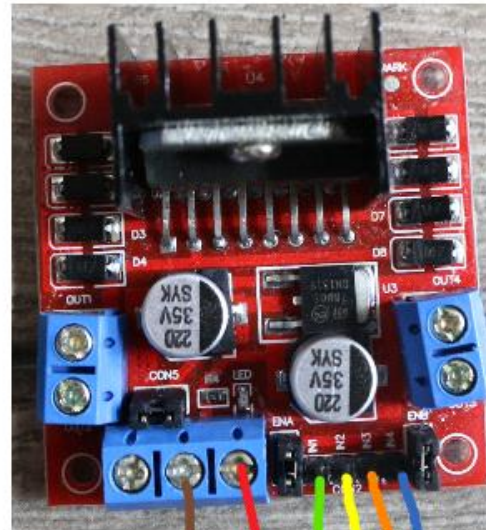
## Motors to Driver - Wiring:

	Motor's pin	Driver
Motor 1:	Higher Lower	OUT3 OUT4
Motor 2:	Higher Lower	OUT4 OUT3
Motor 3:	Higher Lower	OUT2 OUT1
Motor 4:	Higher Lower	OUT1 OUT2



## Arduino to Driver - Wiring:

Arduino's pin:	Driver:
8	IN1
7	IN2
5	IN3
4	IN4
GND	GND
Vin	+5v



## Arduino to HC-05(Bluetooth module) - Wiring:

Arduino:	HC-05:
Rx	Tx
Tx	Rx
GND	GND
+5v	+5v

