



# Arduino UNO Car 1.0 Tutorial

## Lesson 0 Car Assembly

V1.0.2019.07.31

## Preface

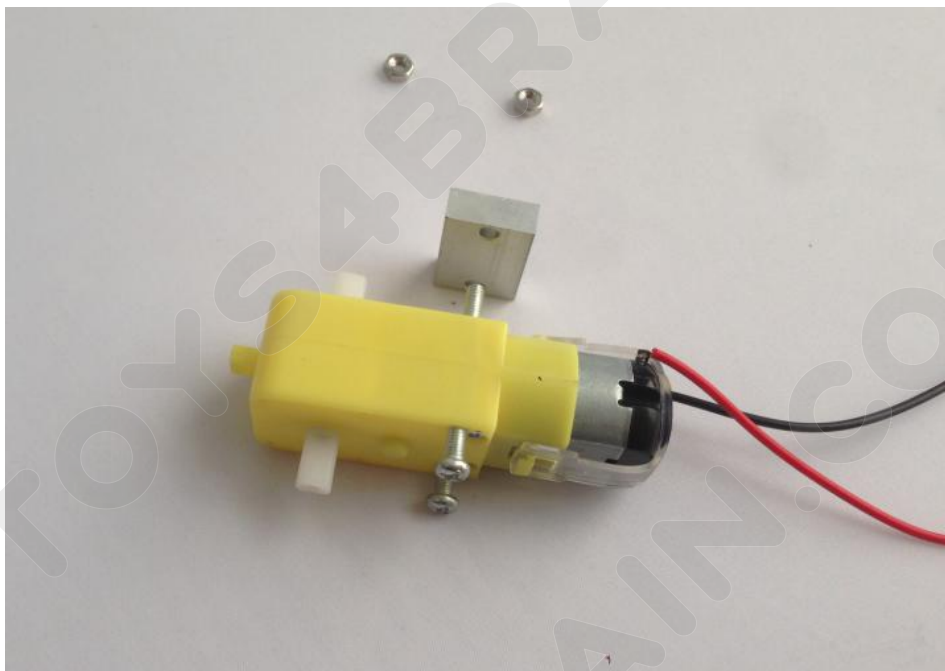
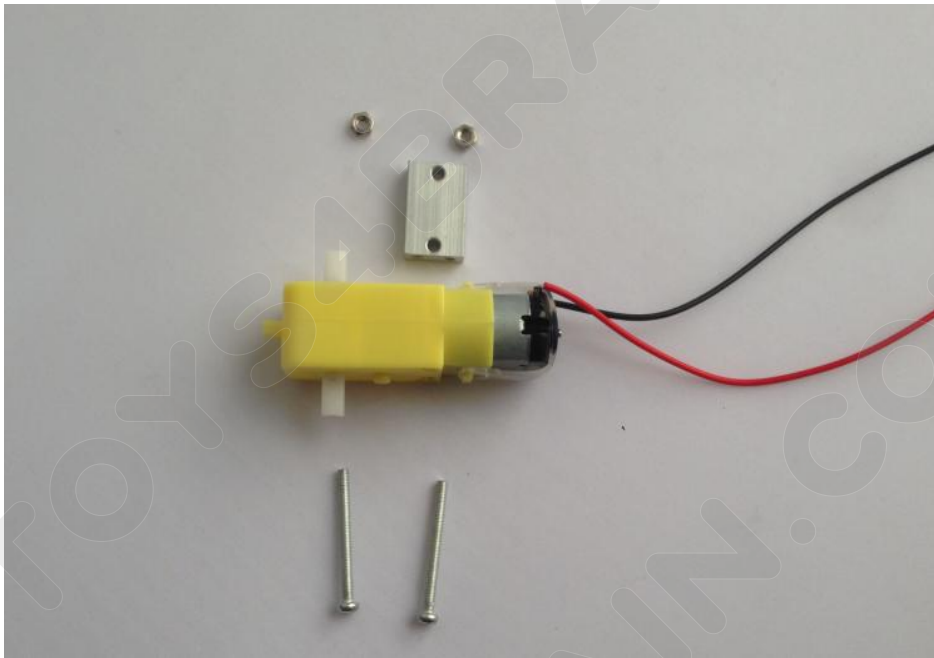
OKYSTAR car will show you how to use OKYSTAR Car. You will learn several innovative projects through OKYSTAR Car, including the most common and useful electronic components. In this tutorial, we will show you our powerful and interesting OKYSTAR car.

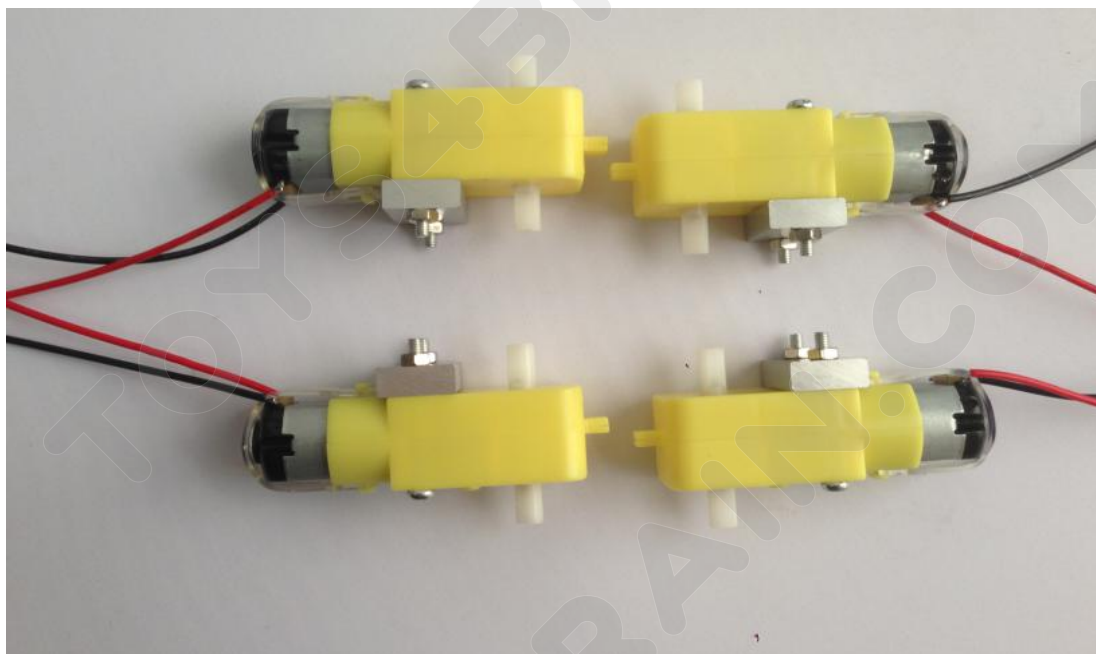
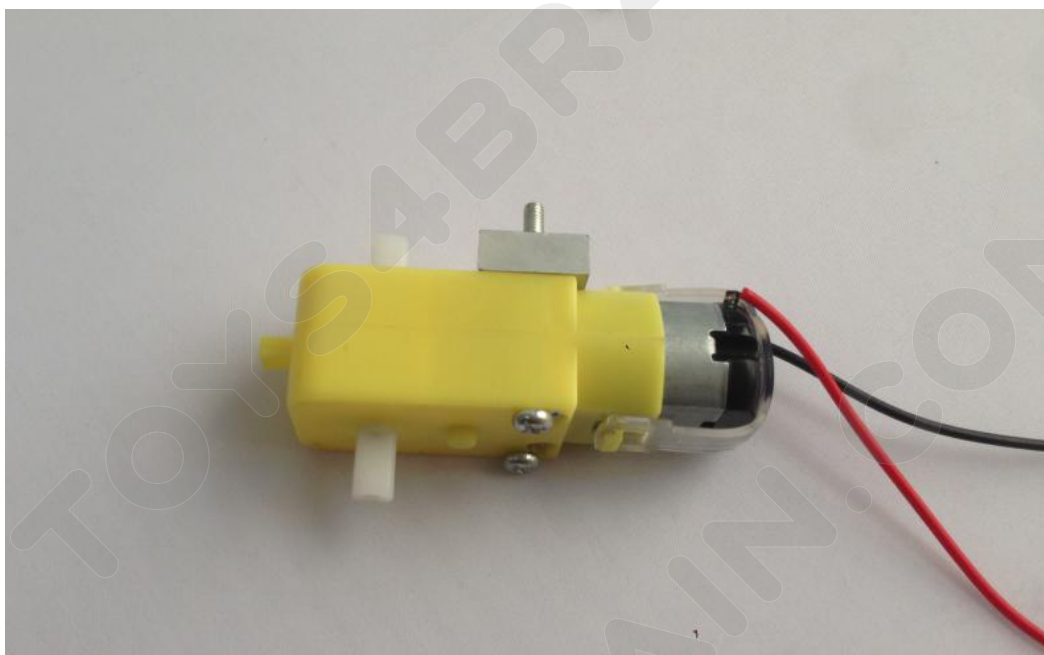
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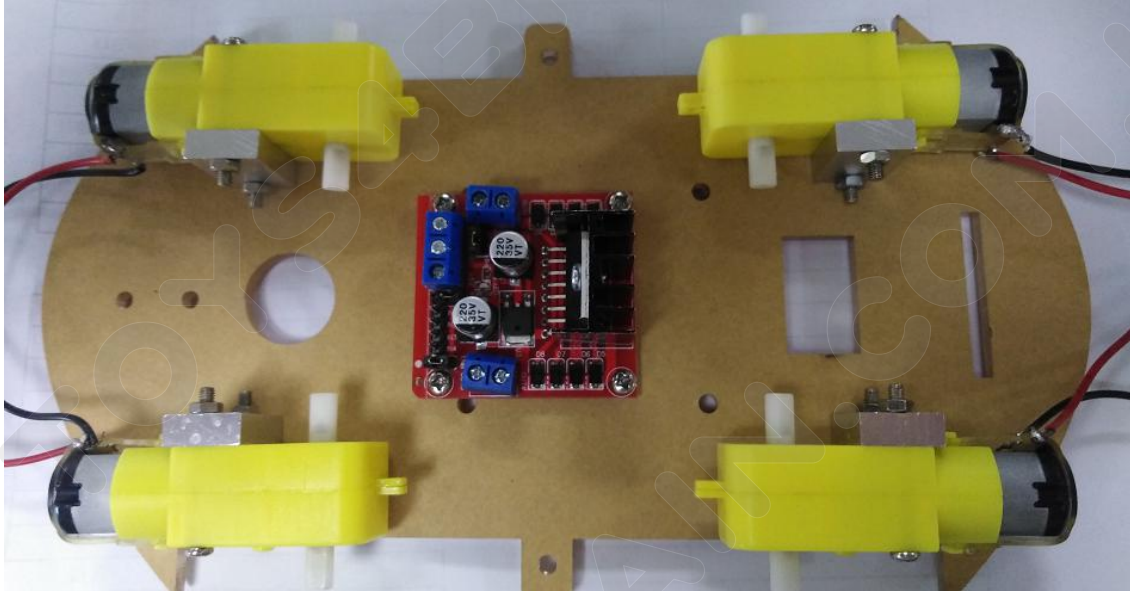
### Our Tutorial

The tutorial is for beginners. In the tutorial, you can learn how to use Arduino controller board, sensors and components. You can also learn the basic knowledge of all the parts. But if you want to study Arduino systematically, we recommend you to buy the book "Arduino Cookbook" which is written by Michael Margolis.

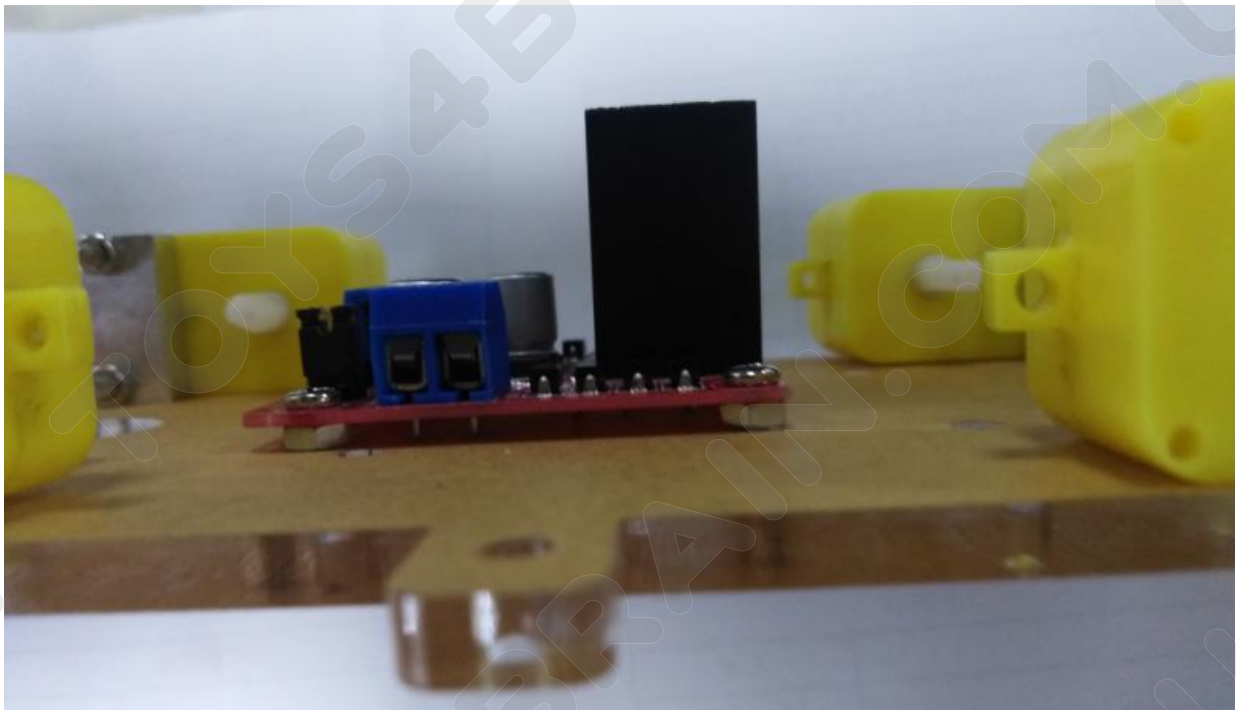
### 1、 Motor installation



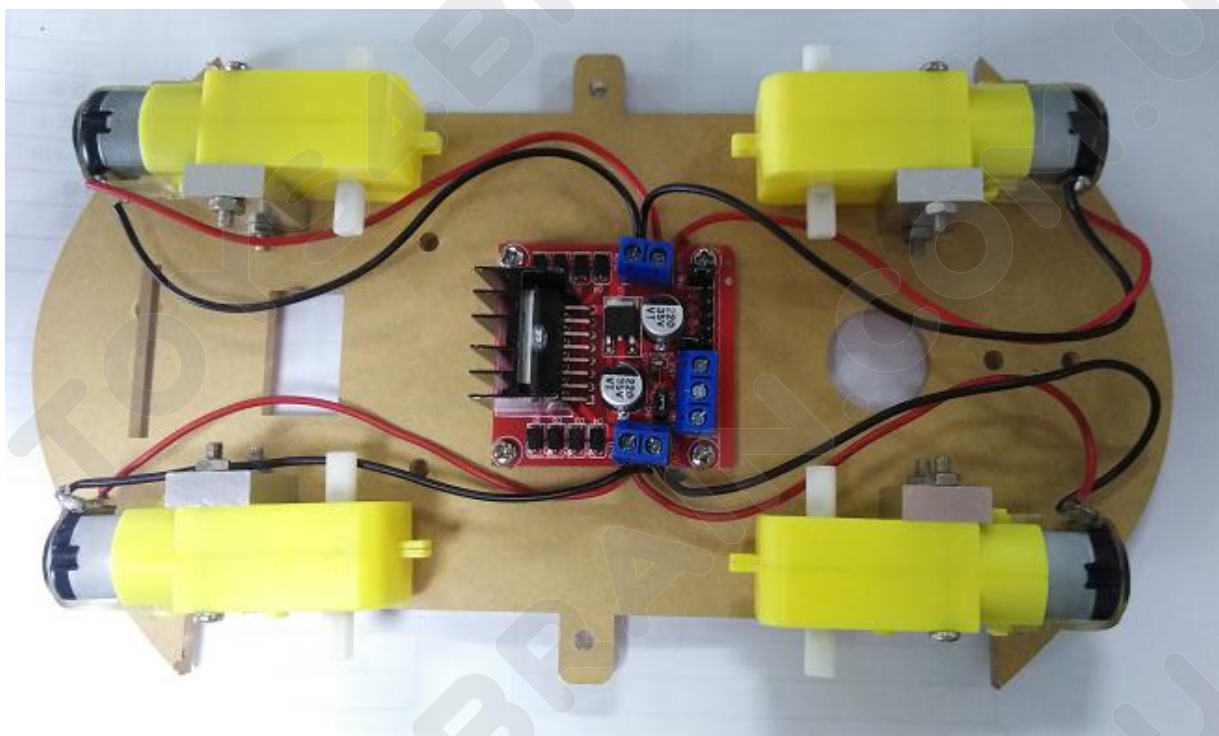
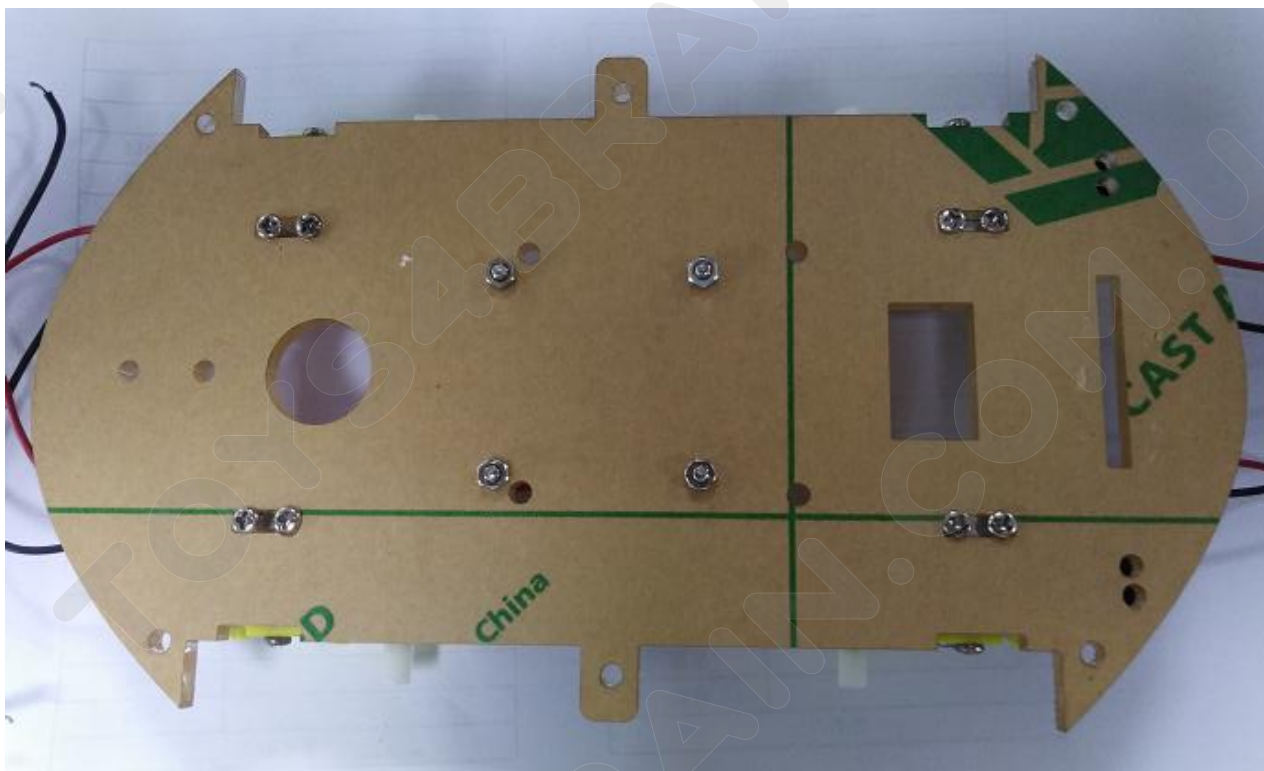




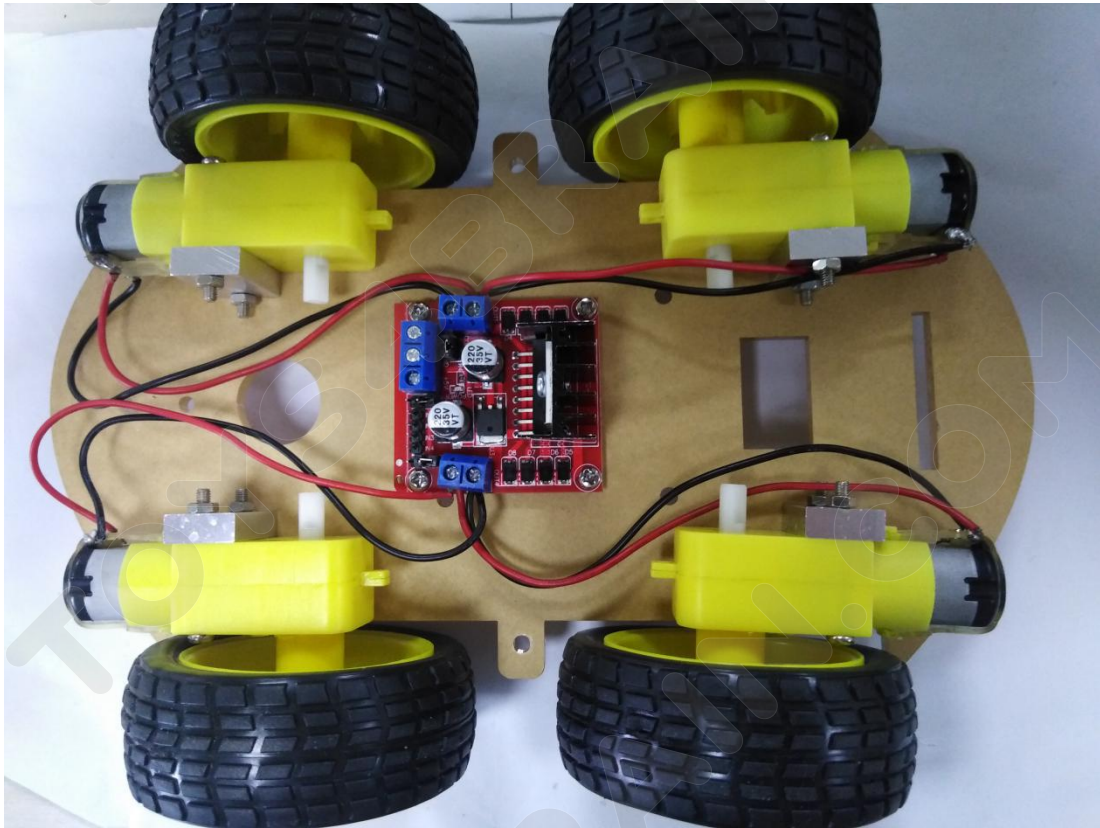
After installing the motor, the motor can be fixed on the acrylic plate and the motor drive module is also fixed on the board as shown:



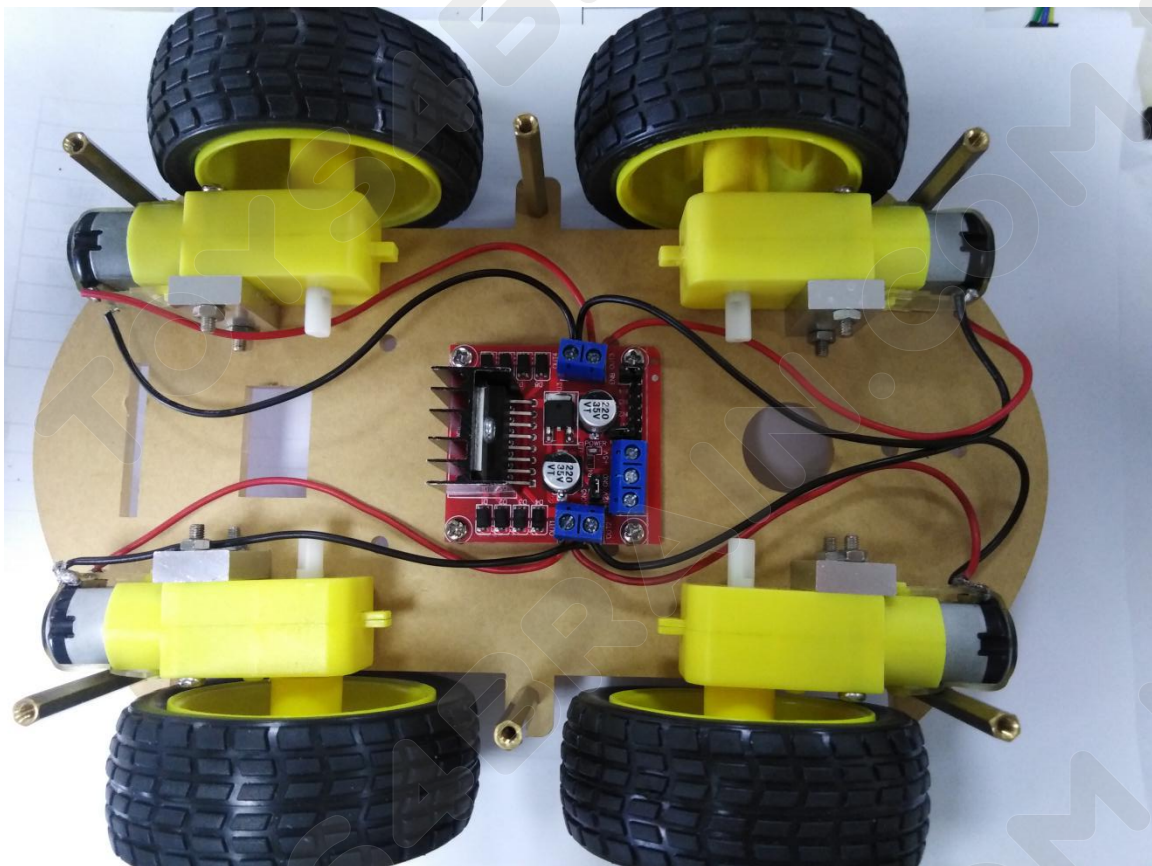




The trolley wheels will be installed, as shown in the figure:



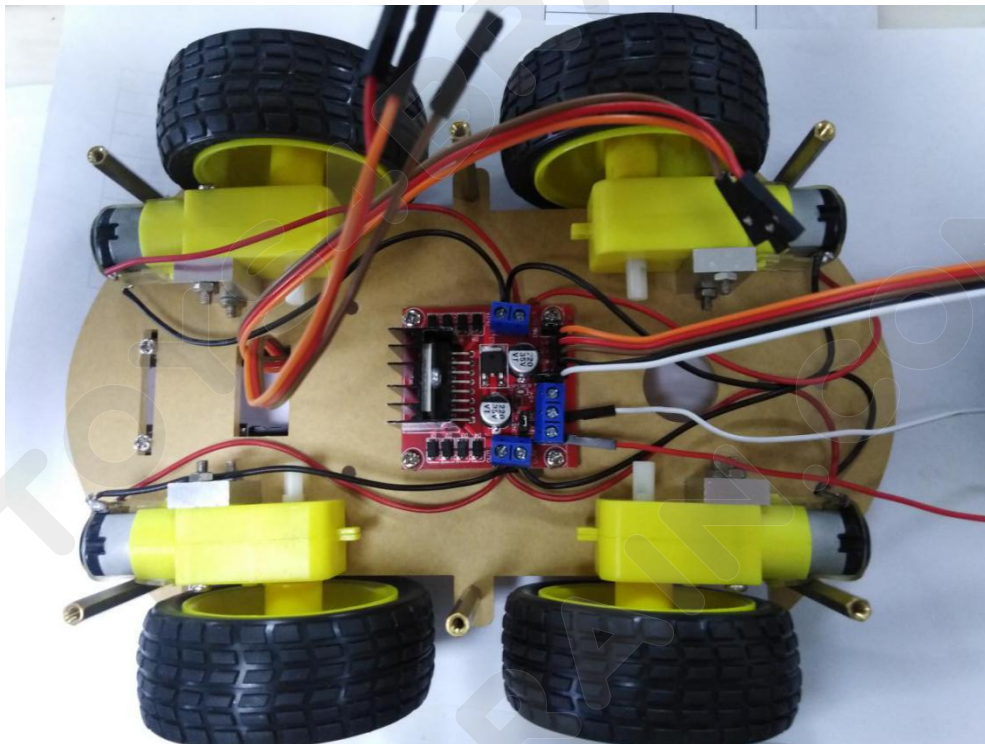
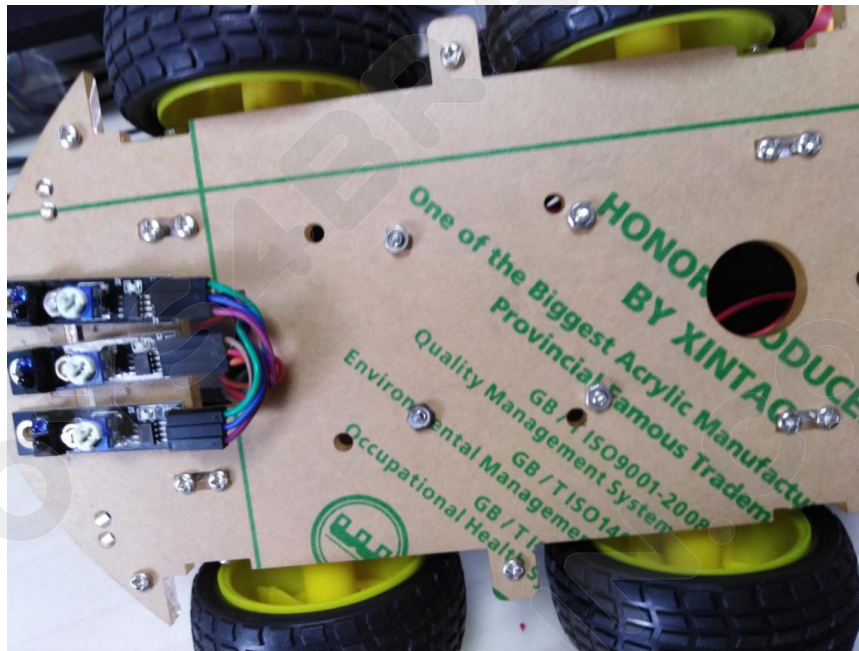
Next, we fixed the long copper column on the acrylic sheet, as shown in the figure:



Install the tracking module under the front of the chassis and fix it with screws, as shown

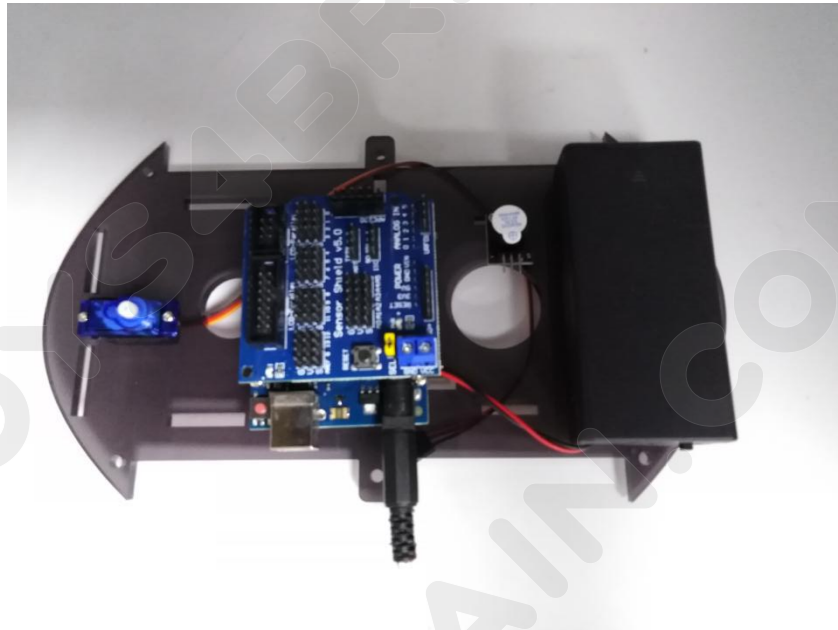


in the figure:



Next, we installed the Arduino Nano main control board, servo bee, buzzer and 18650 battery box on the top of the car, as shown below:

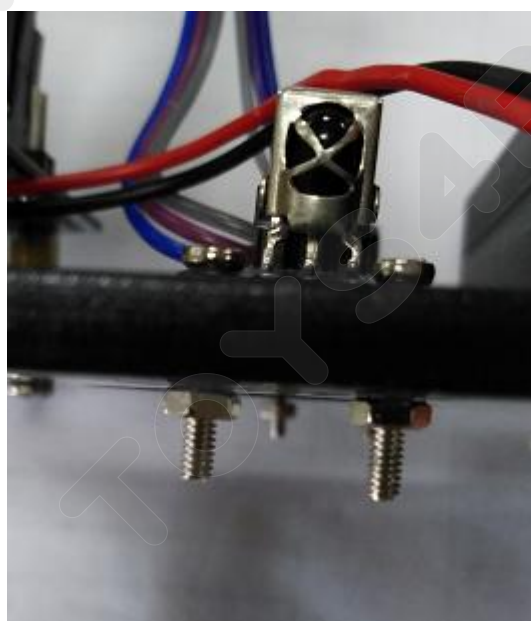
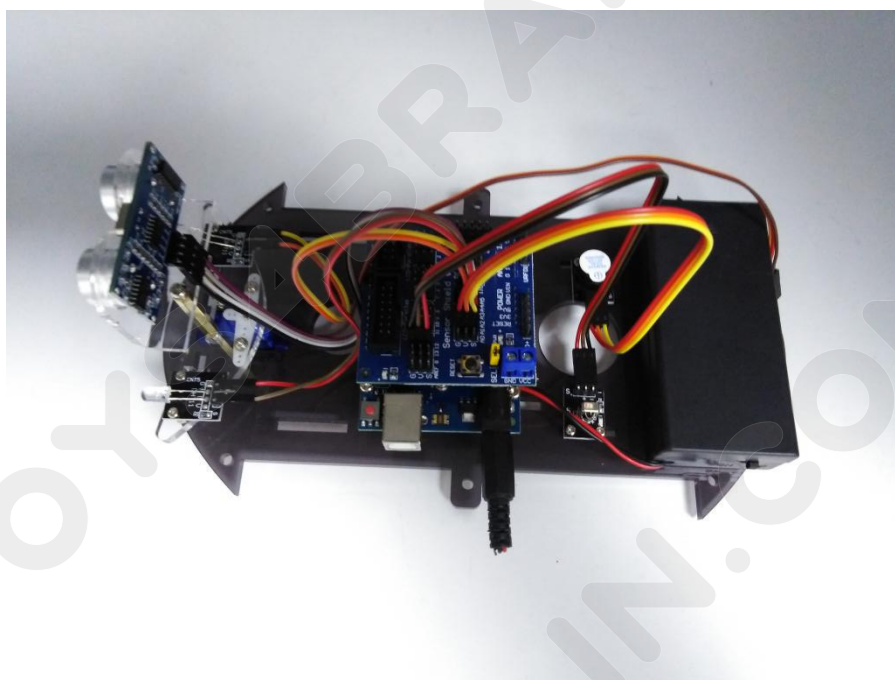




We will install ultrasonic module and colorful LED bracket together as follows:



We installed the infrared receiving module, Bluetooth module and ultrasonic bracket on the top of the car to install the servos on the top of the steering gear, as shown below:



(Infrared receiver module)

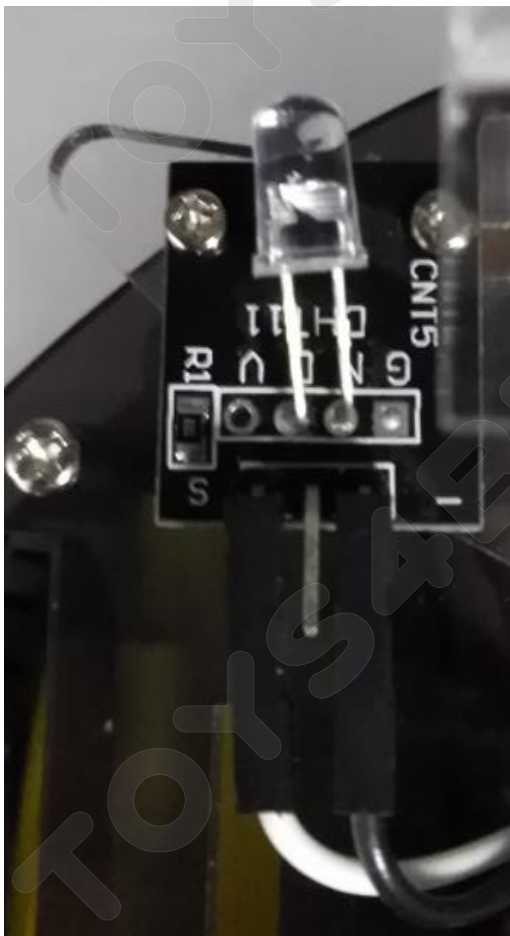


(Bluetooth module)

(Colorful LED on the left)

"S" connects Arduino UNO "A2"

"-" connects Arduino UNO "GND"



(Colorful LED on the right)

"S" connects Arduino UNO "A3"

"-" connects Arduino UNO "GND"



Connect the trolley floor cable through the hole in the top plate to the top control panel, as shown in the figure:





Next, we will fix the top and bottom plates of the car with M3\*8 screws, as shown:



Finally, regarding the wiring section, follow the wiring "wire connect\_wps".

The Arduino smart car assembly is finally completed, as shown in the figure:

