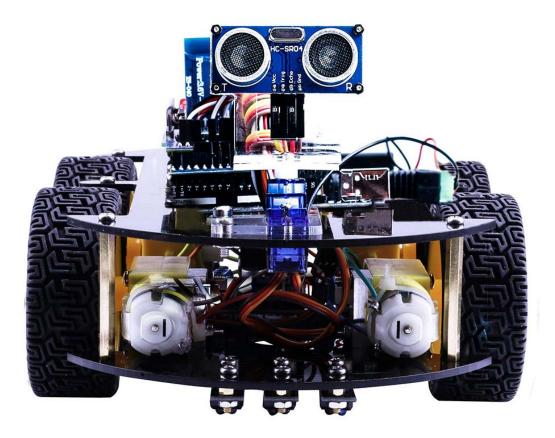
Play with Robot-Assemble The Car

(The Four-wheels car)



Preface

Our Company

Established in 2011, Elegoo Inc. is a professional manufacturer and exporter that is concerned with the design, development production and marketing of arduino, 3d printers, raspberry pi and STM32. We are located in Shenzhen which is known as Chinese Silicon Valley. All of our products comply with international quality standards and are greatly appreciated in a variety of different markets throughout the world.

Our official website is: Http://www.elegoo.com

Our USA amazon shop is: Http://www.amazon.com/shops/A2WWHQ25ENKVJ1

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.

This Tutorial

This tutorial will show you how to assemble the car and offer you the basic program to make all the function come true.

If you want to learn more than the tutorial, you can search the Google.

Our after-sales

If you have any question or suggestion about our company, product or tutorial. Please send us a email. Our email address is **service@elegoo.com**

We will very appreciate and improve ourselves so that we can offer you a better service.

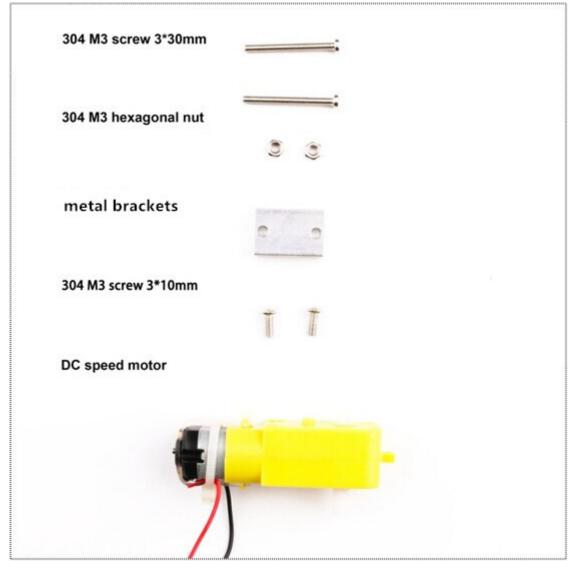


1. Assembly

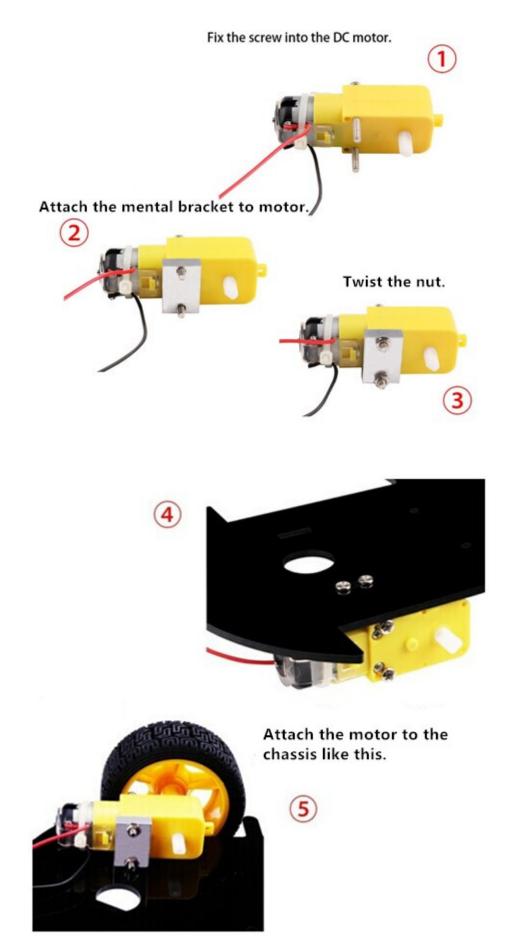
This part will teach you to assemble every component step by step.

1.1、Assemble The Motor

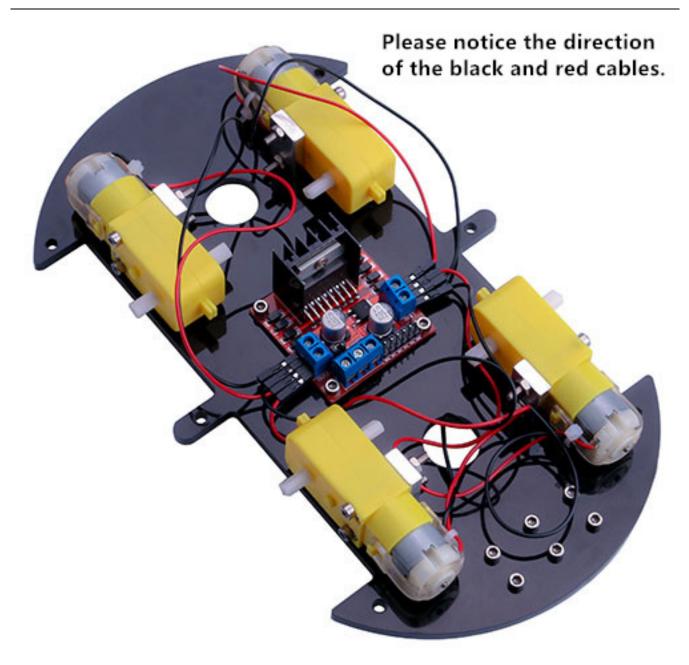








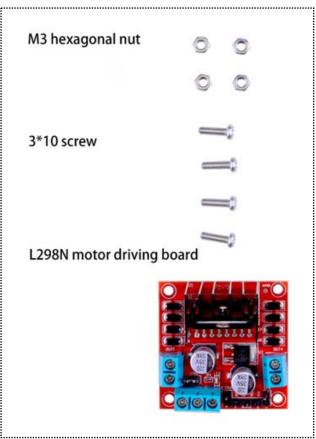


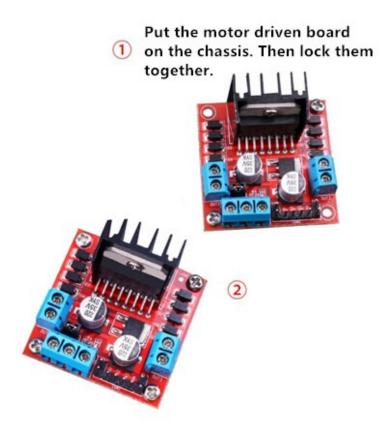




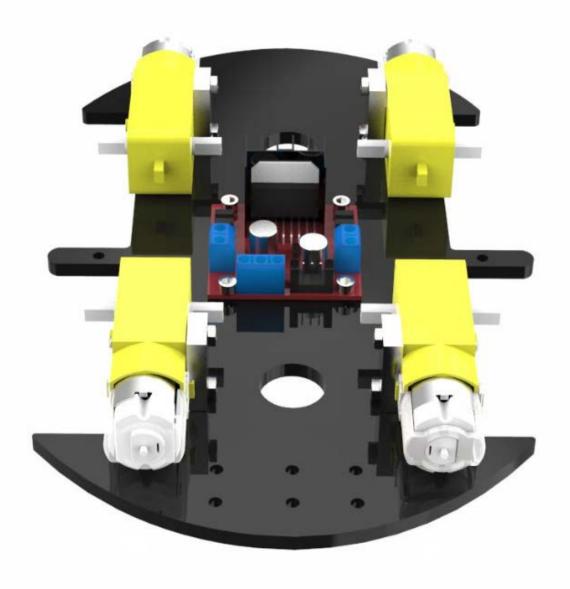
2.2、Assemble The L298 Motor Driving Board

The motor driven board, screws and nuts needed





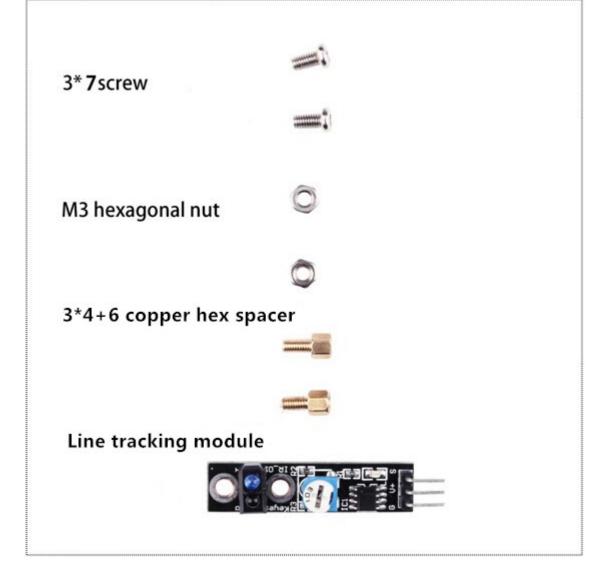






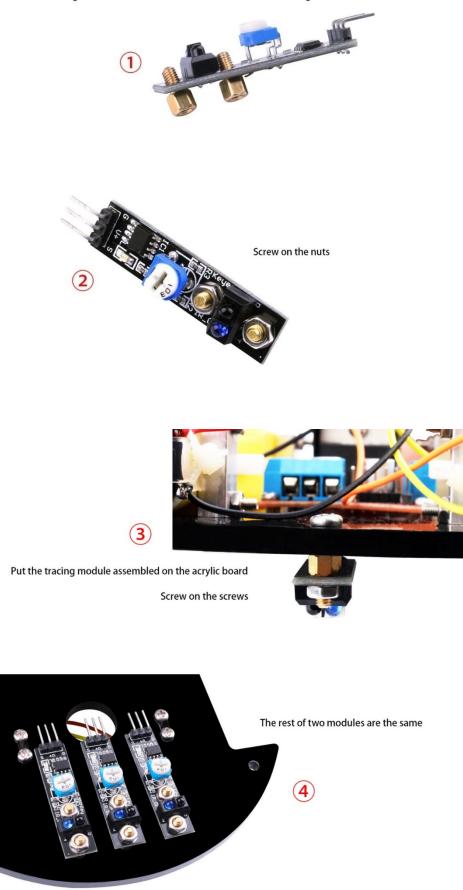
2.3、Assemble The Line Tracking Module

The tracking module, hex spacer, screws and nuts needed



The assembly drawing



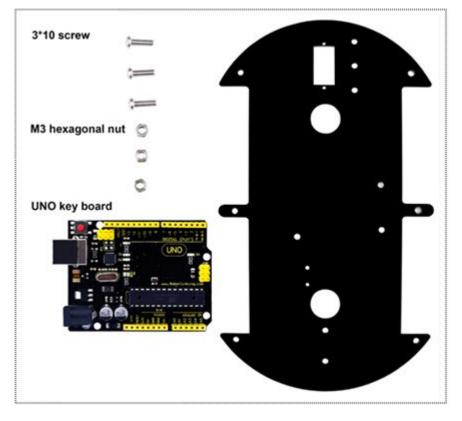


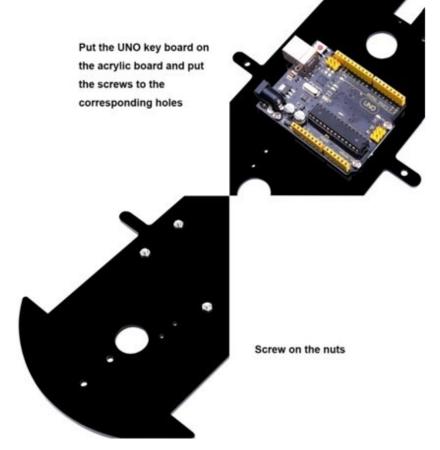
Put the hexagonal isolated double-screw bolt on the infrared tracing module



2.4 Assemble The UNO Controller Board

UNO controller board, screws, nuts and acrylic plate needed







$2.5\ensuremath{\scriptstyle \times}$ Assemble the V5.0 Expansion Board

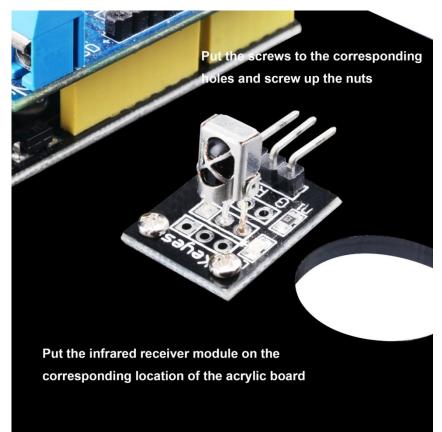




2.6、Assemble The IR Receiving module

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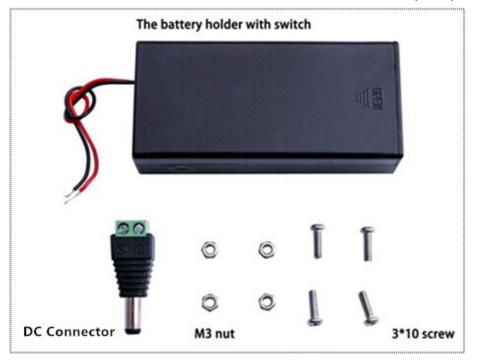
The infrared receiving module, screws and nuts needed

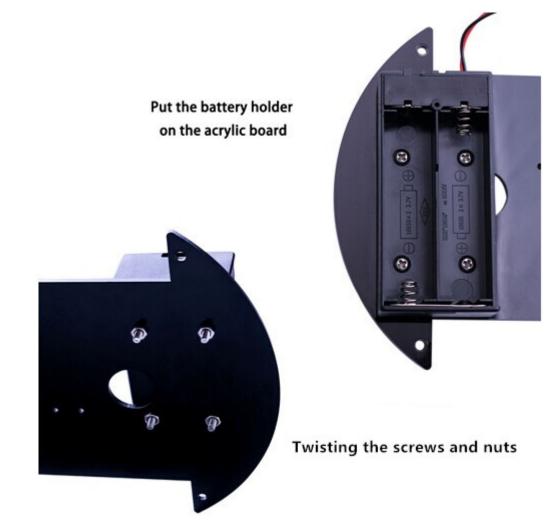




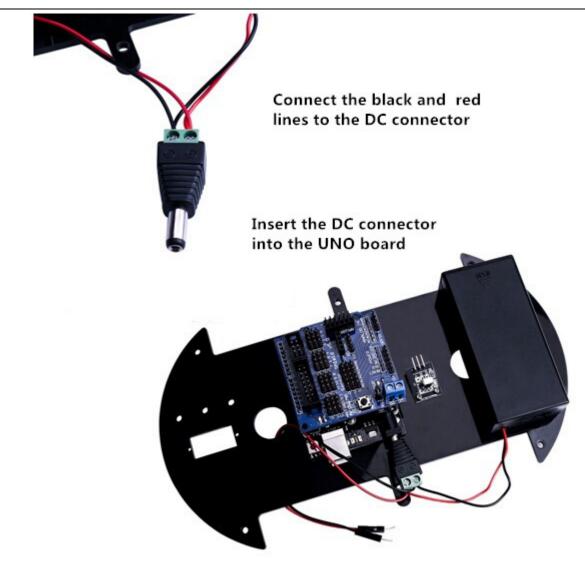
2.7、The assembly of battery box

The battery box, DC Connector and etc. (TIPS: Here the screws is phillips screws)



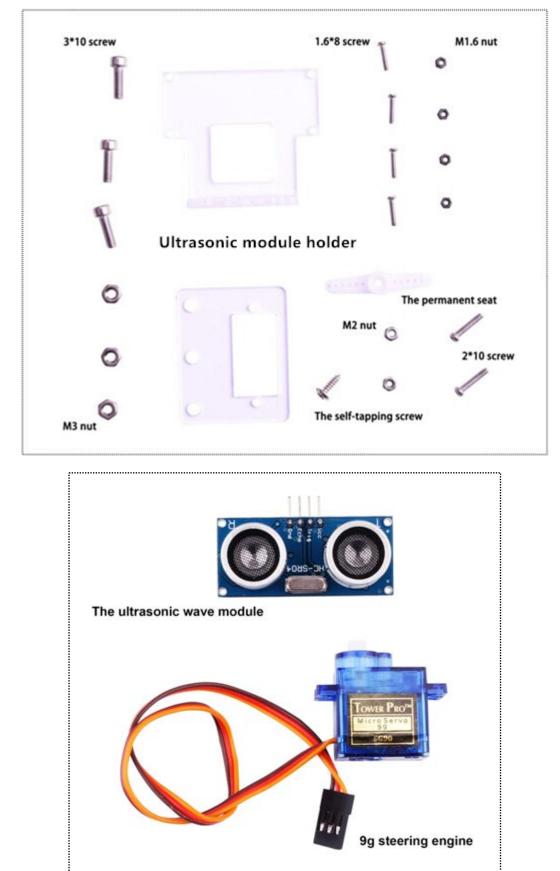








2.8、The assembly of ultrasonic wave pan-tilt



The ultrasonic module, sg90 servo, holder, screws and nuts needed

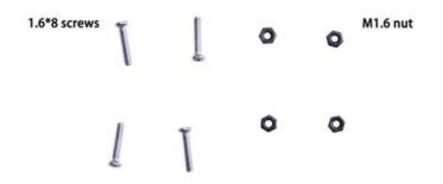






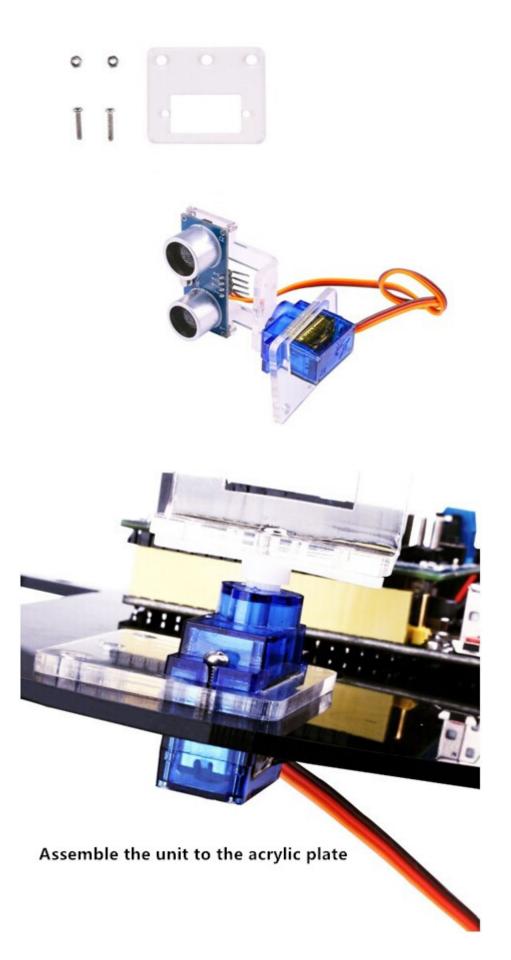


The ultrasonic wave module

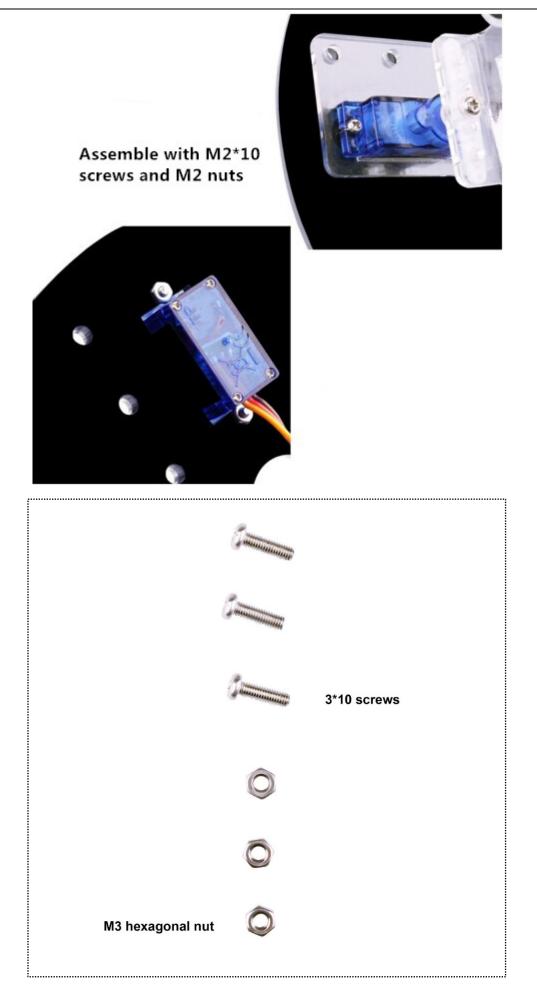








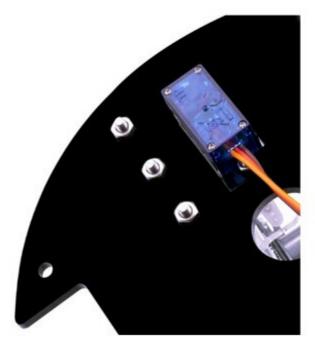






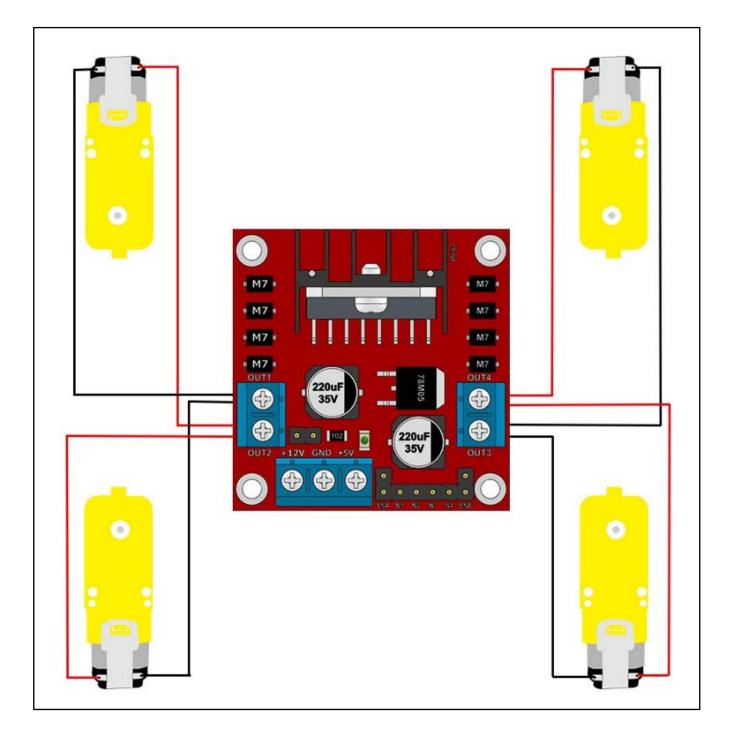


Put the 3*10 screws in the corresponding holeson the acrylic board and twist the screws



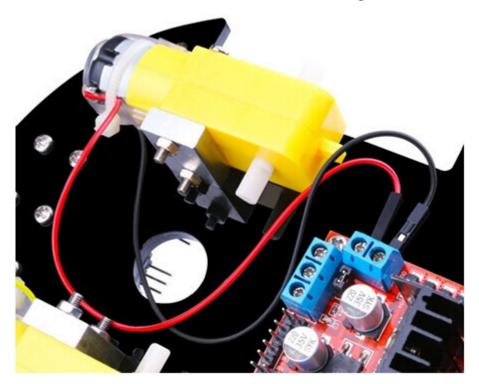


$2.9_{\scriptscriptstyle N}$ Connect The Motors to L298N Board

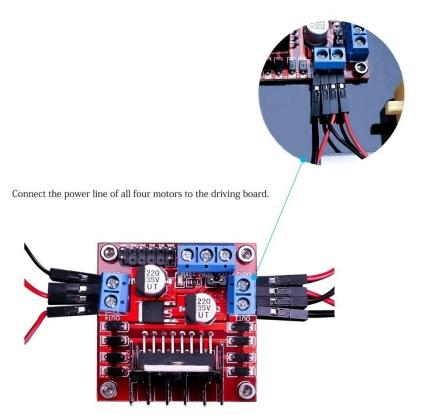






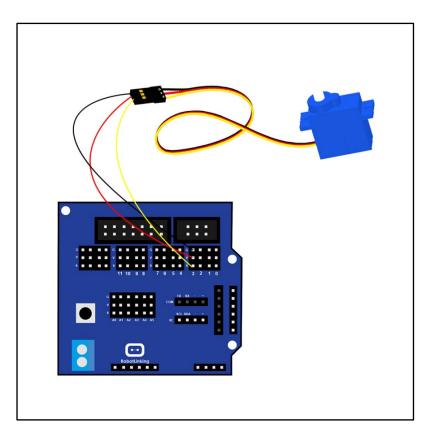


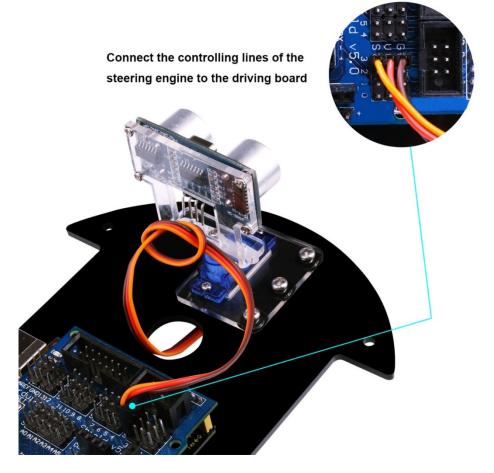
Connect the servos to the L298N driving board





$2.10\space$ Connect The SG90 to V5 board

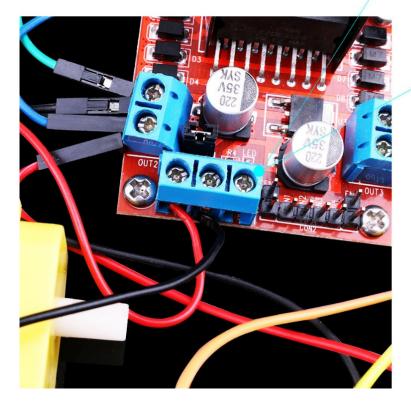




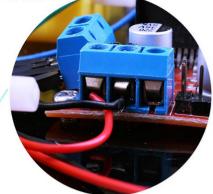
2.11、Connect The Battery Box to The L298 Board

Connect the power lines of the battery box

to the output of the driving board



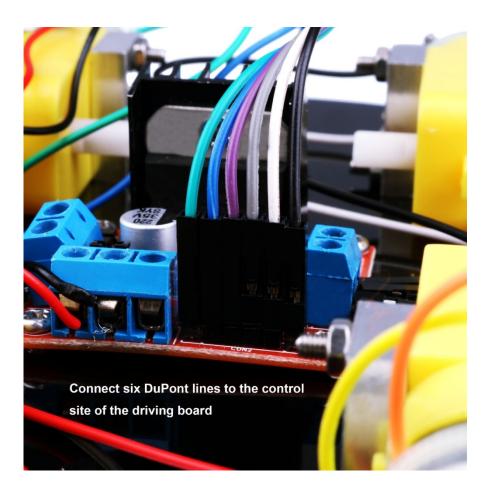


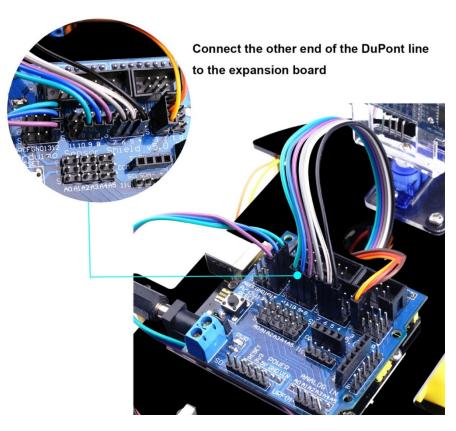






$2.12_{\scriptscriptstyle N}$ Connect The L298N Board to V5 Board

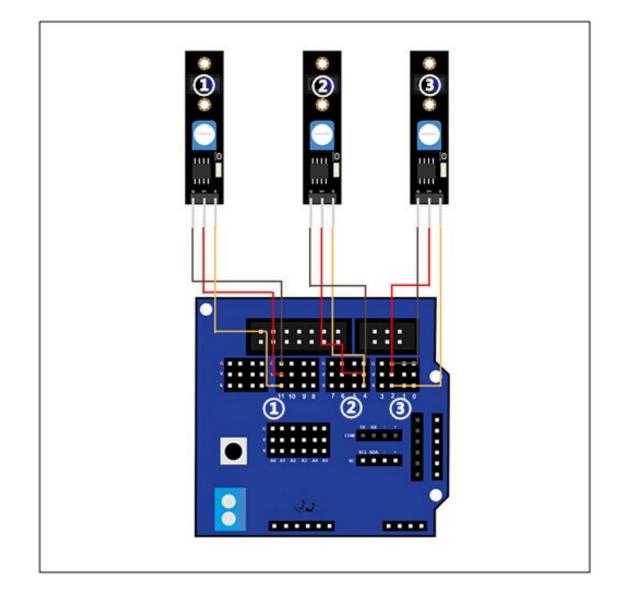








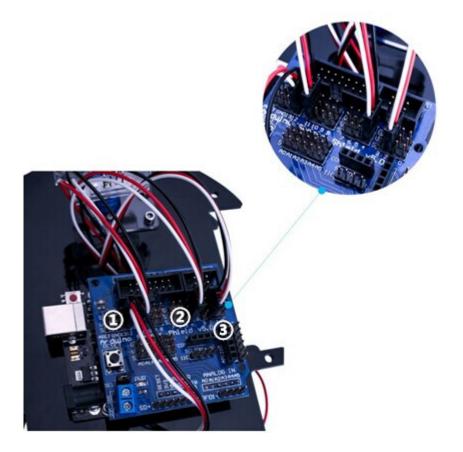
2.13、Connect The Line Tracking Modules to V5 Board





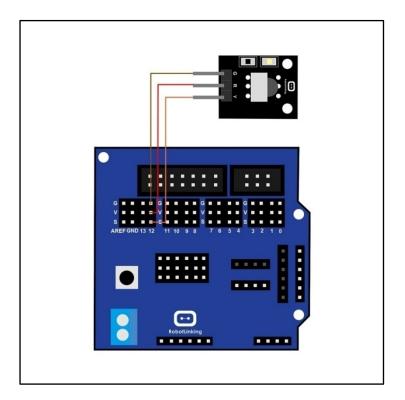


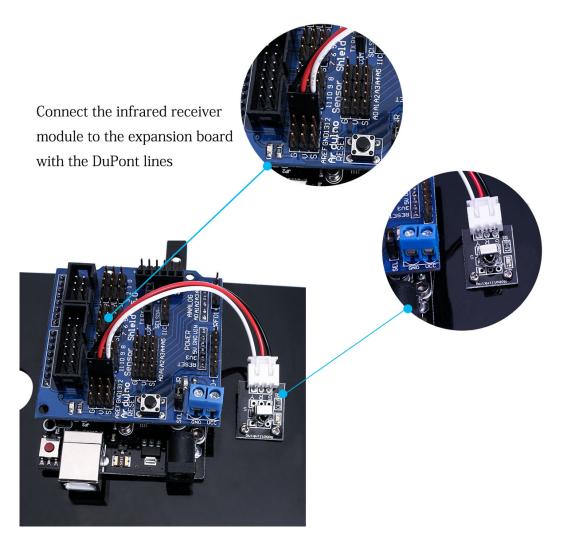






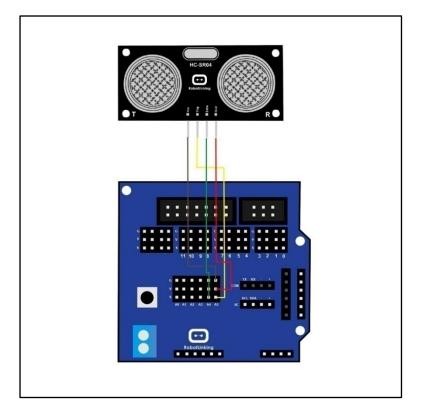
2.14、Connect The IR Module to V5 Board

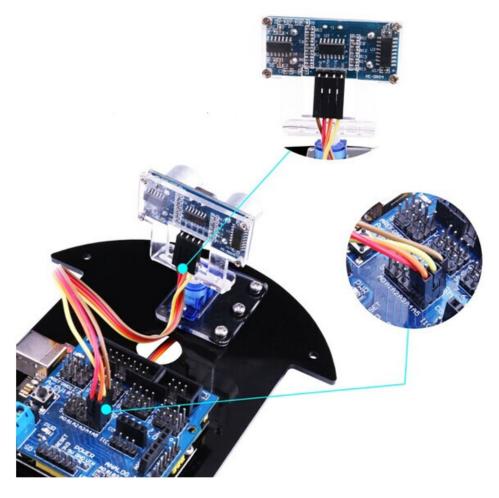






2.15, Connect The Ultrasonic Sensor Module to V5 Board

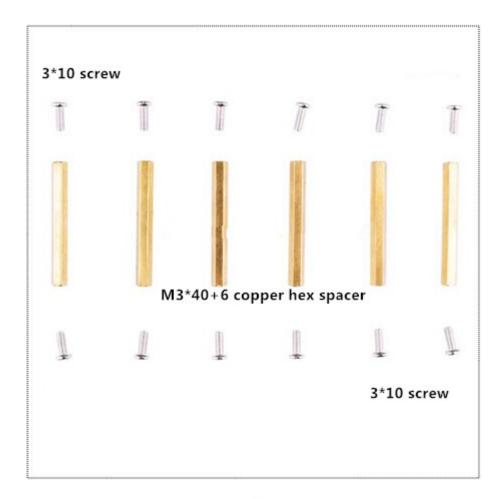


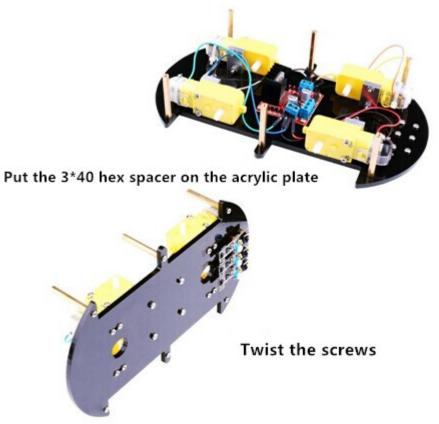




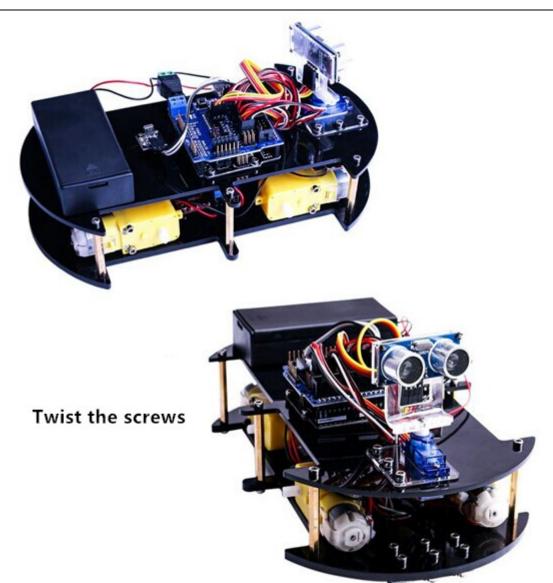


2.16、Assembly The Car





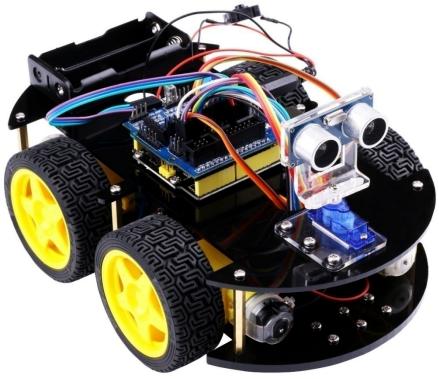






2.17、Assemble The Tires





Being loaded up four tires



3、Summary

Our company is trying to make the car more easily assembling, so if you find any problem or have any suggestion for the tutorial or the robot, please email us at service@elegoo.com.

After assembling and connecting all the units. We need to debug the car by some basic program. We will learn in the next lesson.