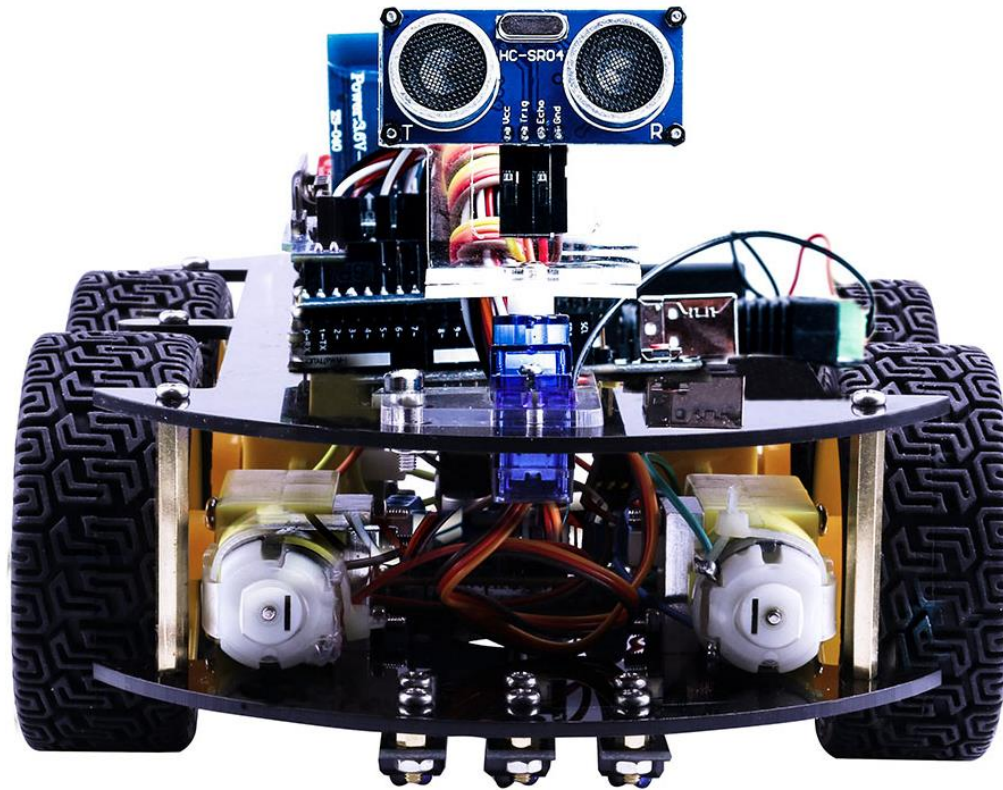


Play the Robot (Arduino) Step by Step

--on Production
(The Four-wheel car)



Preface

Our Company

Established in 2011, Elegoo Inc. is a professional manufacturer and exporter that specializes in the design, development production and marketing of Arduino, 3d printers, raspberry pi and STM32. We are located in Shenzhen which is known as China 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](http://www.elegoo.com)

US Amazon store front: <http://www.amazon.com/shops/A2WWHQ25ENKVJ1>

CA Amazon store front: <http://www.amazon.ca/shops/A2WWHQ25ENKVJ1>

DE Amazon Store front: <http://www.amazon.de/shops/A1780XYQ9DFQM6>

Vitrine à l'Amazon FR: <http://www.amazon.fr/shops/A1780XYQ9DFQM6>

Tienda de Amazon de ES.: <http://www.amazon.es/shops/A1780XYQ9DFQM6>

IT Amazon negozio: <http://www.amazon.it/shops/A1780XYQ9DFQM6>

UK Amazon storefront: <http://www.amazon.co.uk/shops/A1780XYQ9DFQM6>

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, Google would be a great place to learn.

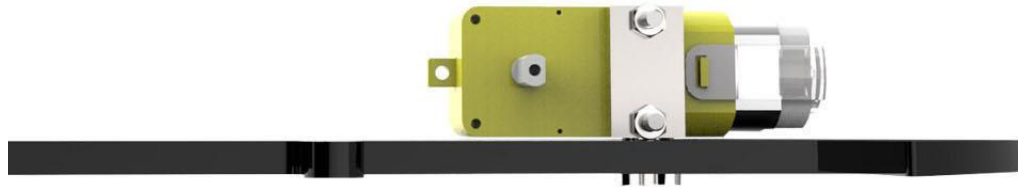
Our after-sales

If you have any questions or suggestions about our company, product or tutorial. Please drop us a line at service@elegoo.com (US and CA customers) or EUservice@elegoo.com (Europe Customers)

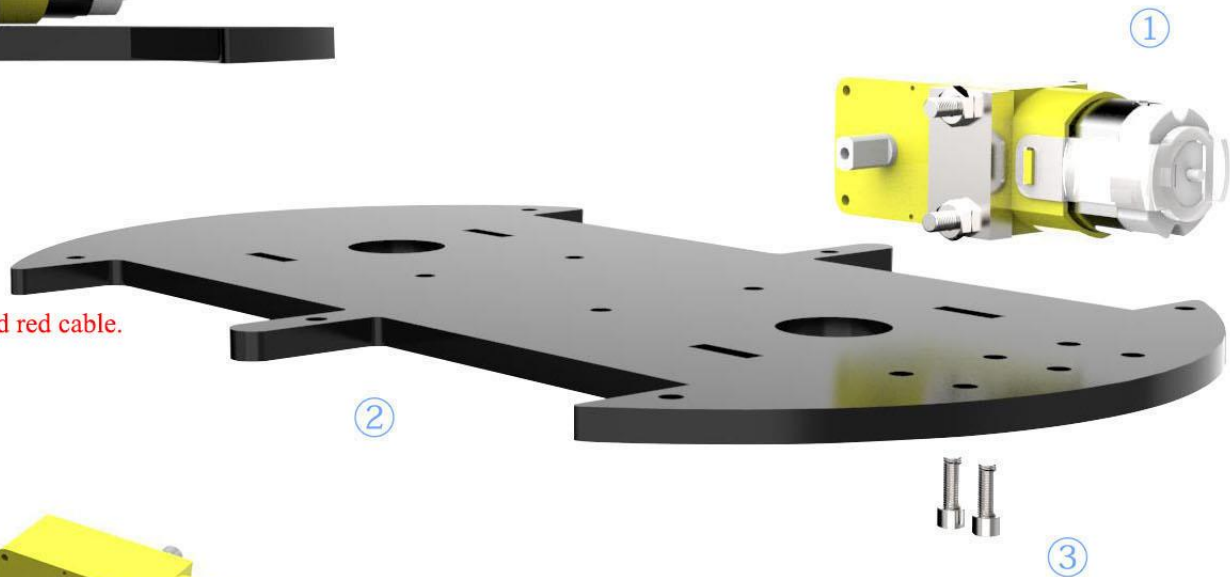
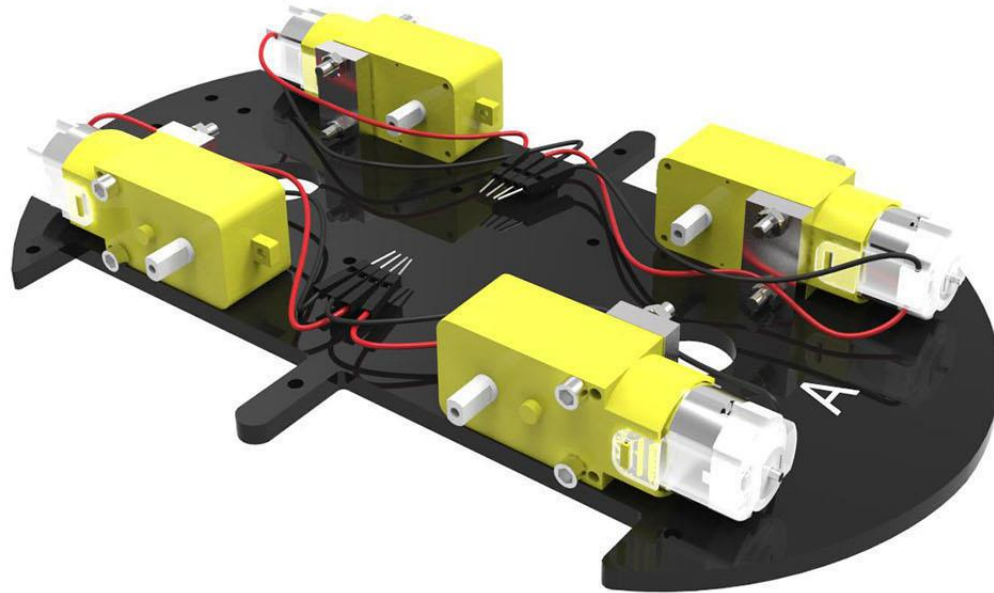
We appreciate all your critical advices and will do our very best to meet your expectation.



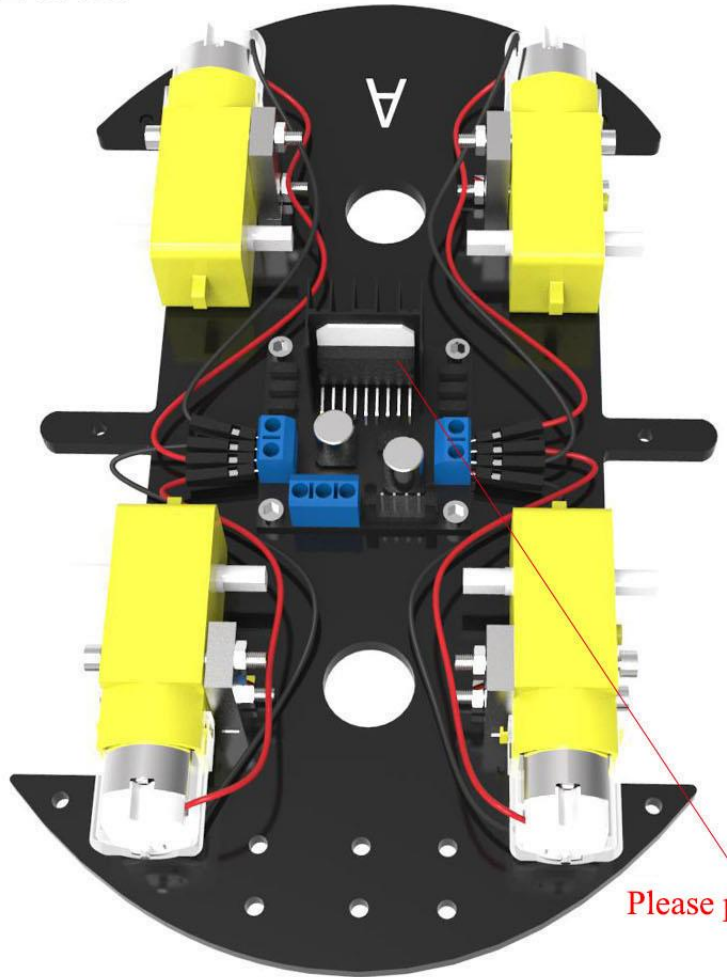
- ① M3 nut
- ② Aluminium Block
- ③ DC speed motor
- ④ M3 hex screws 3*30mm



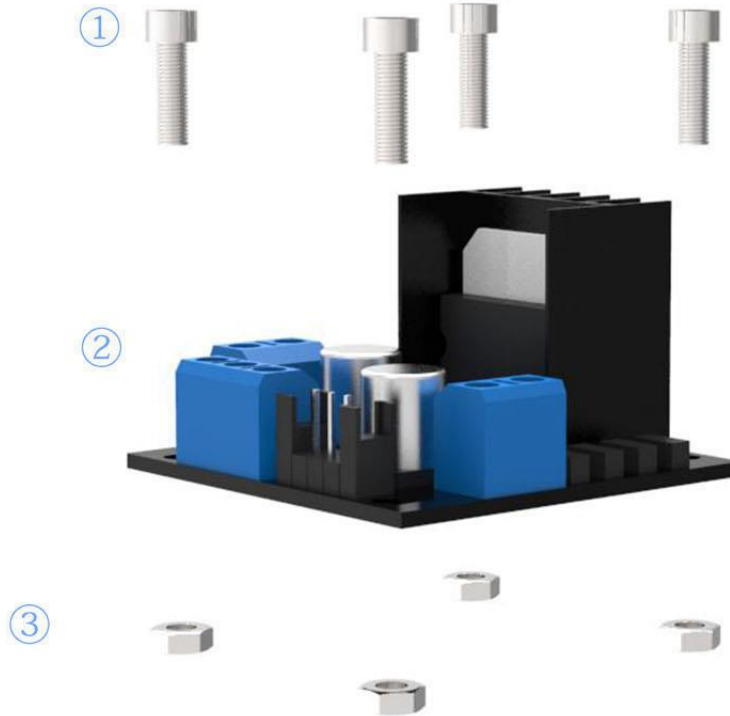
Please pay attention to the direction of the black and red cable.



- ① Motor units
- ② Acrylic plate
- ③ M3 hex screws 3*10mm



Please pay attention to the direction of L298N module.



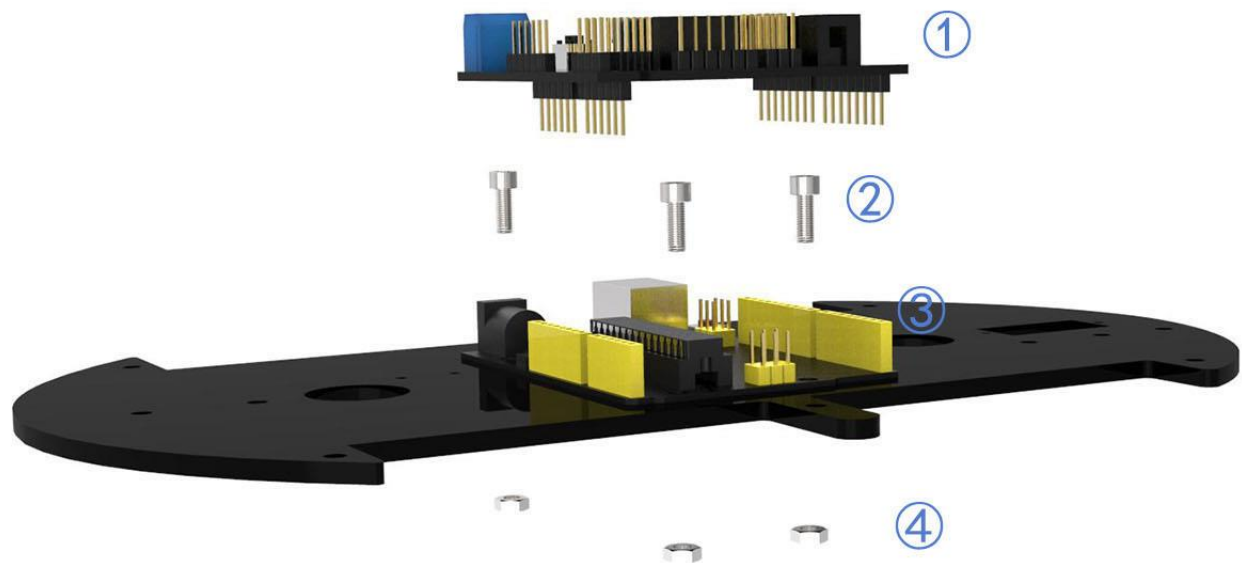
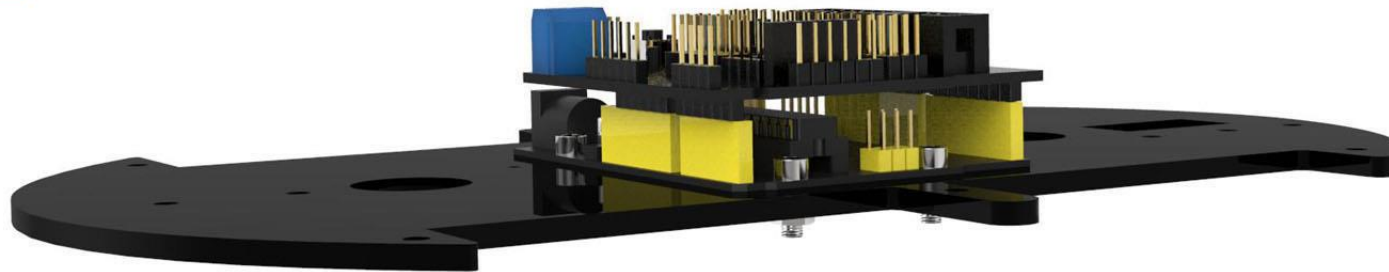
① M3 hex screws 3*10mm

② L298N

③ M3 nut



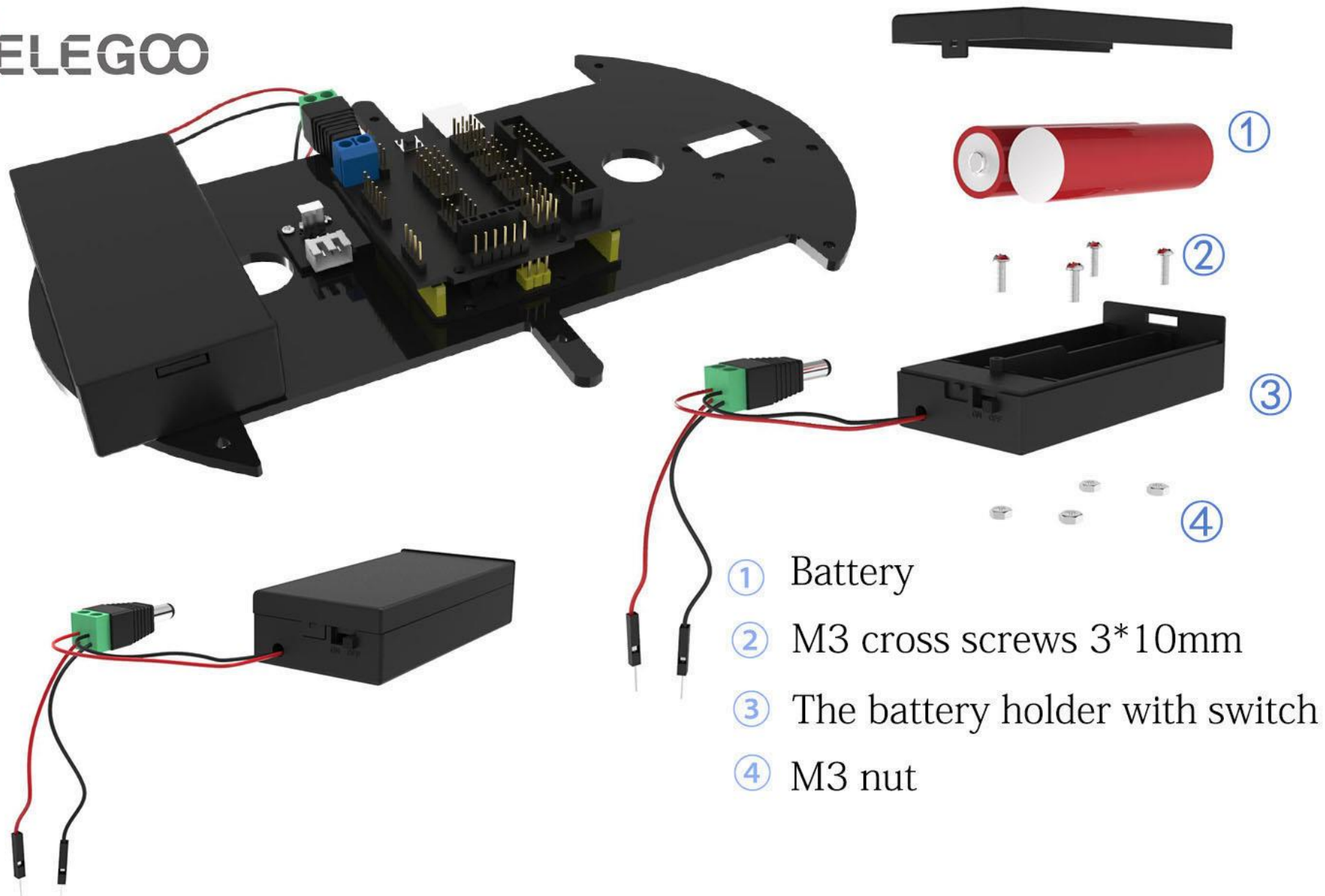
- ① M3 hex screws 3*7mm
- ② 3*4+6 copper
- ③ Line tracking module
- ④ M3 nut

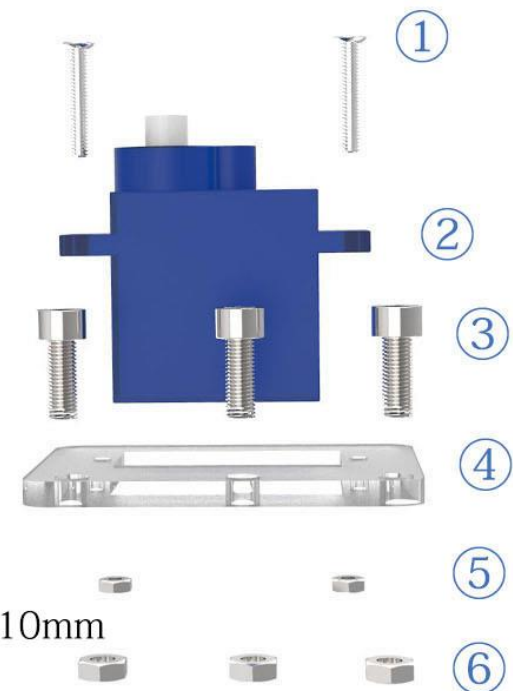
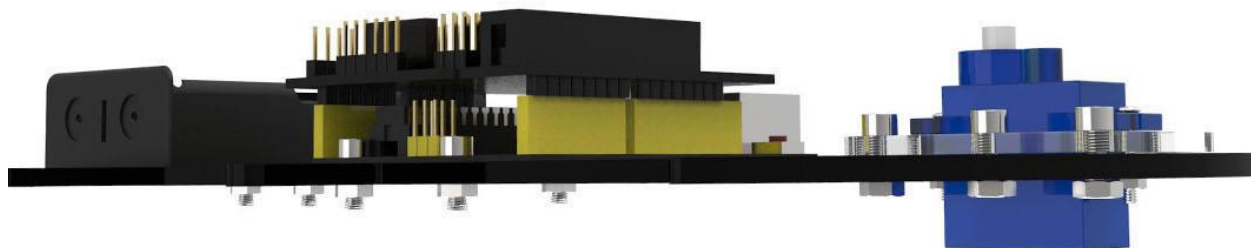


- ① Sensor board V5.0
- ② M3 hex screws 3*10mm
- ③ UNO R3 board
- ④ M3 nut



- ① M2 cross screws 2*10mm
- ② Infrared receiver module
- ③ M2 nut





① M2 cross screws 2*10mm

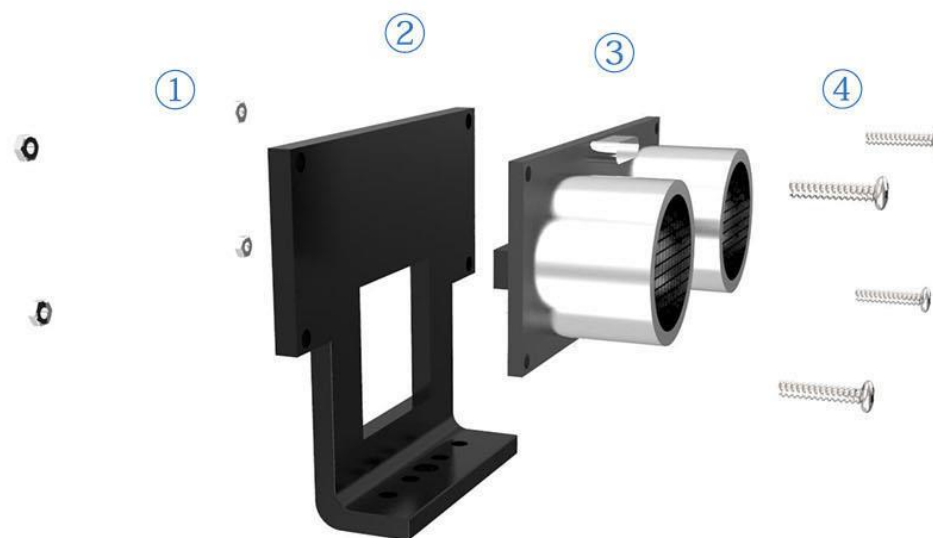
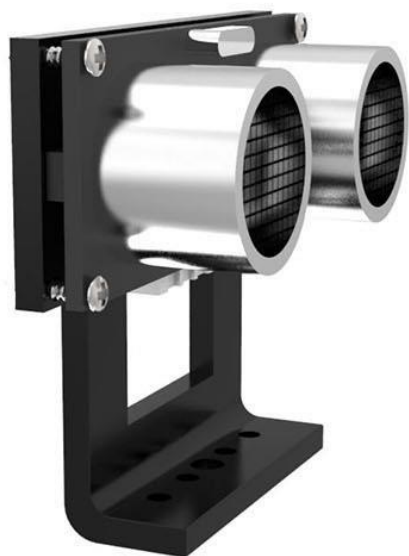
② SG90

③ M3 hex screws 3*10mm

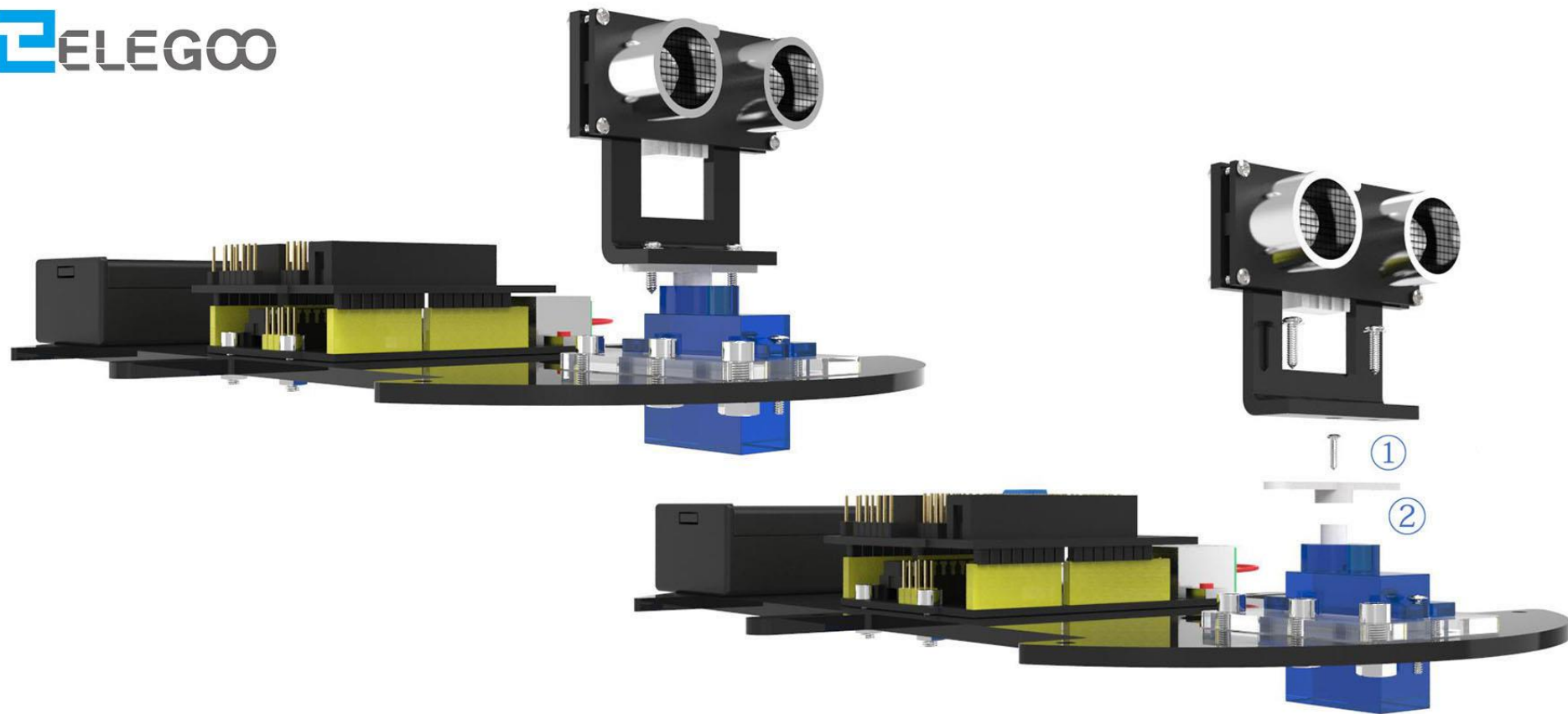
④ Holder board

⑤ M2 nut

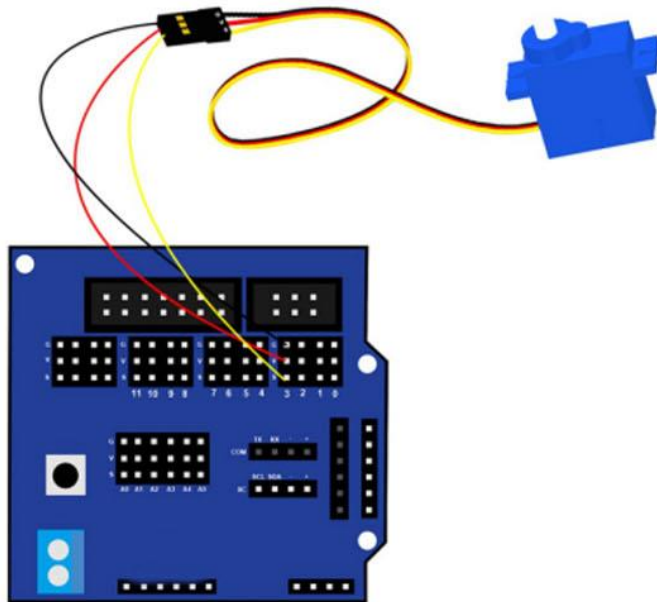
⑥ M3 nut



- ① M1.6 cross screws 1.6*8mm
- ② The acrylic ultrasonic pan-tilt holder
- ③ The ultrasonic module
- ④ M1.6 nut



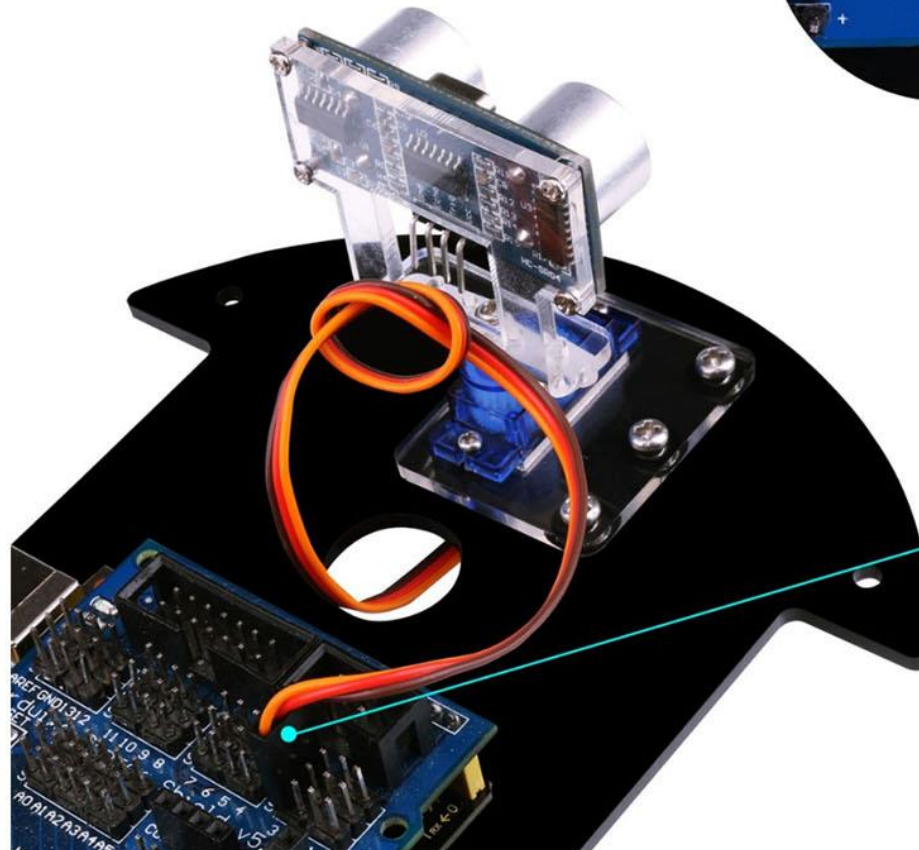
- ① Self-tapping screw
- ② Fastening board



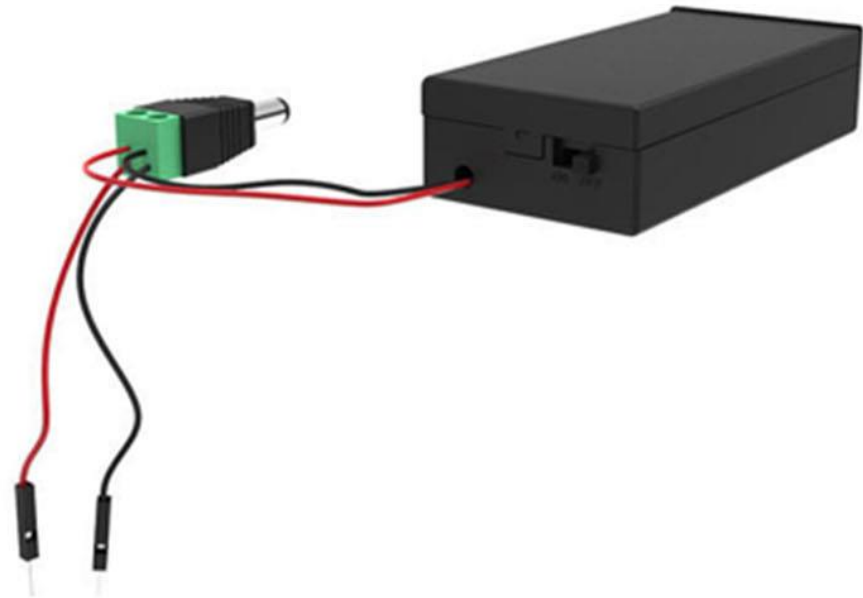
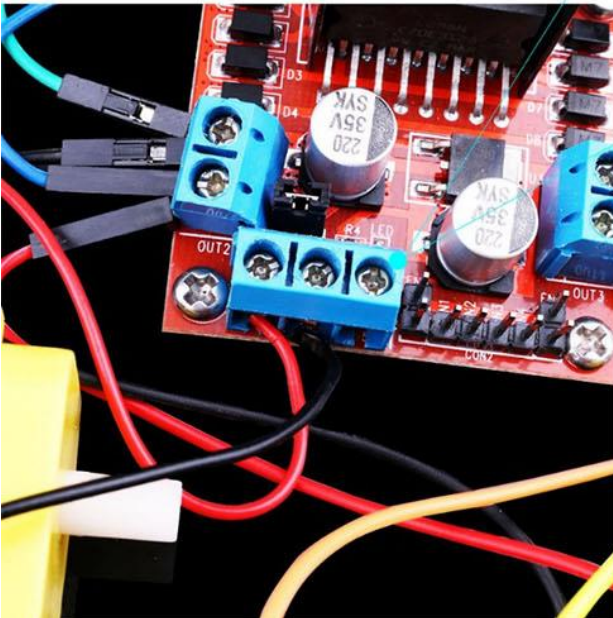
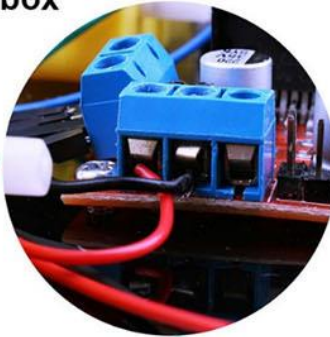
Connect the controlling lines of the steering engine to the driving board



Connect The SG90 to V5 board



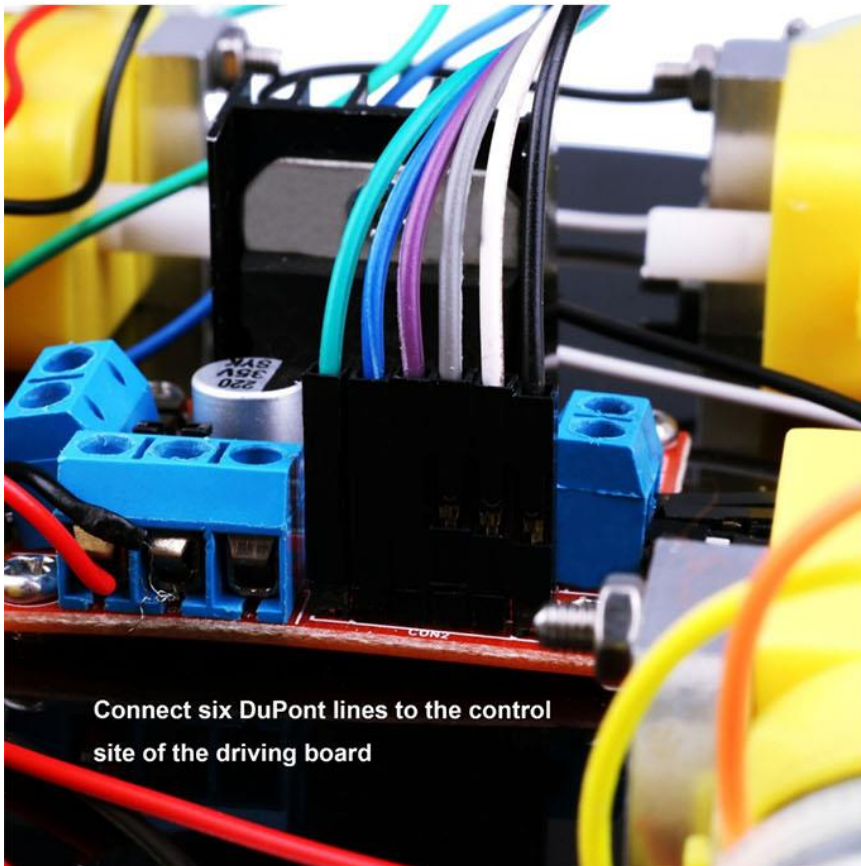
Connect the power lines of the battery box
to the output of the driving board



Connect The Battery Box to The L298 Board



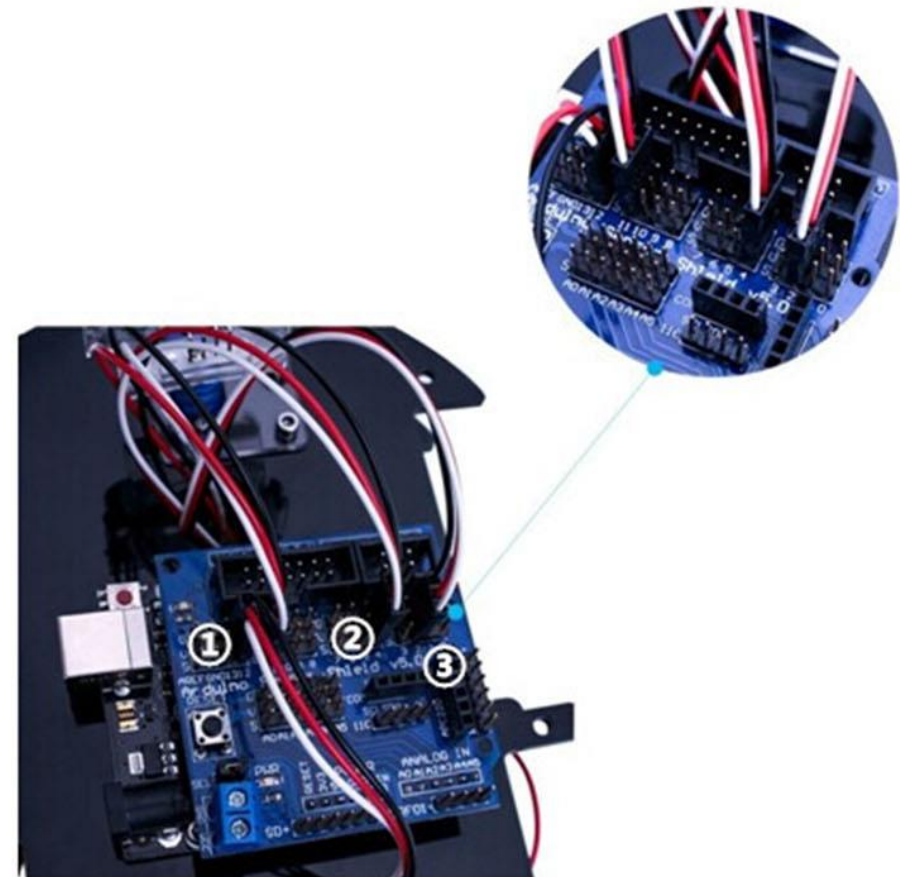
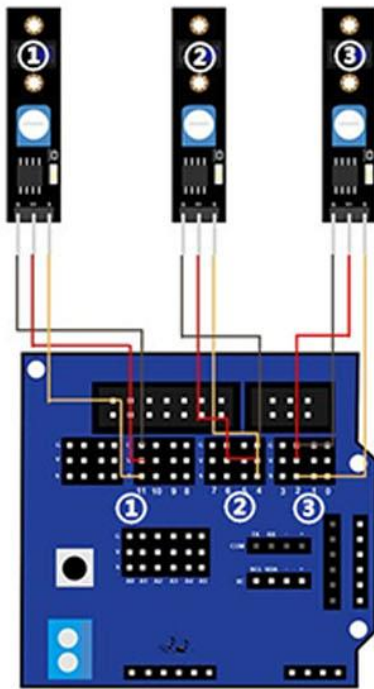
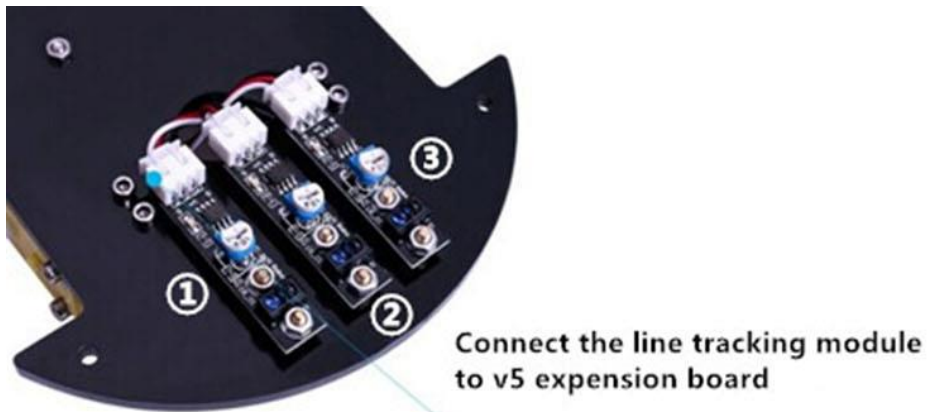
Connect The L298N Board to V5 Board



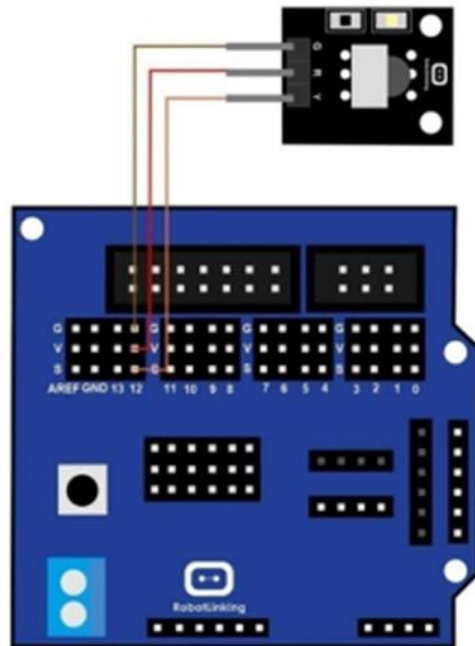
Connect the other end of the DuPont line to the expansion board



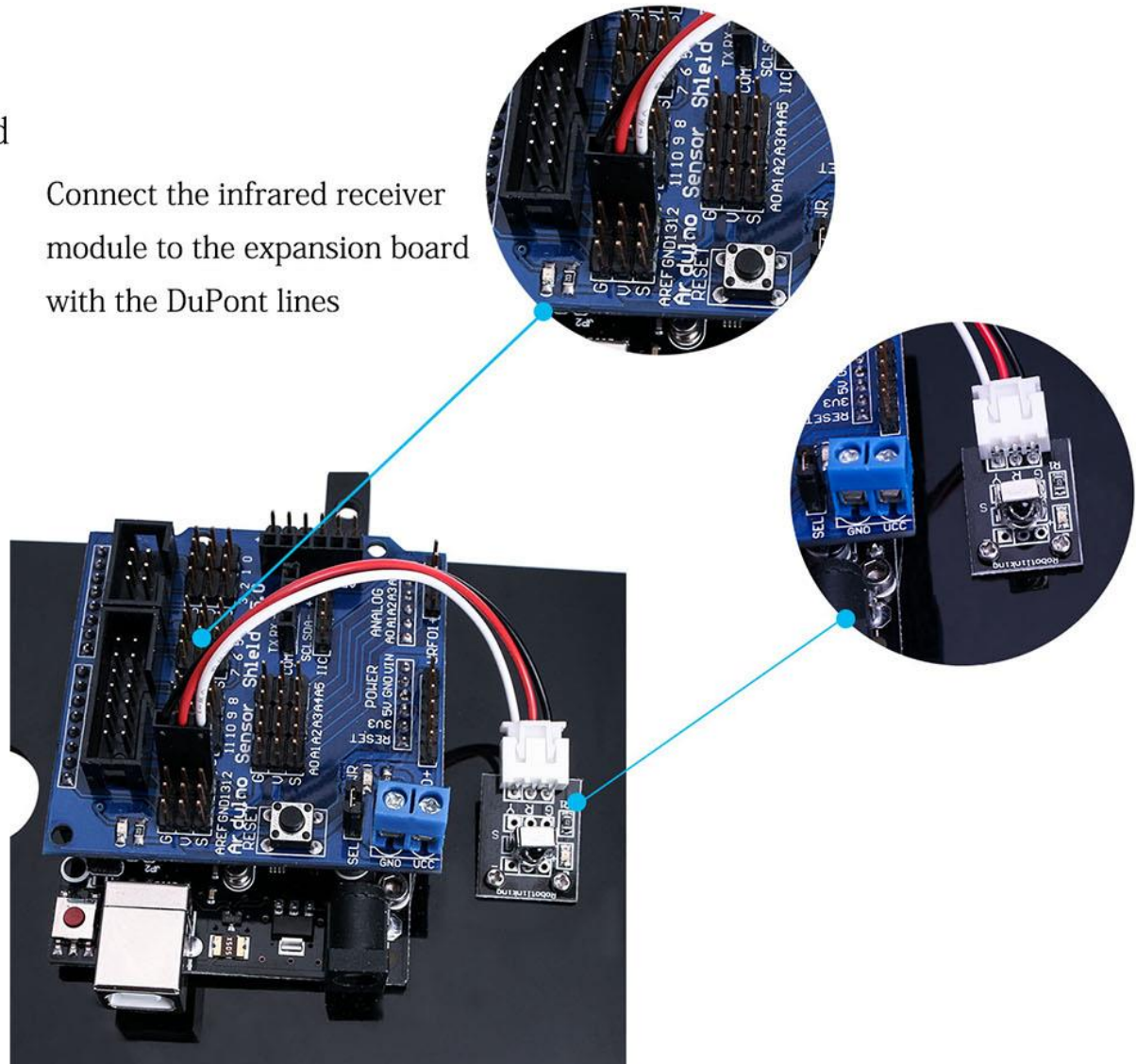
Connect The Line Tracking Modules to V5 Board



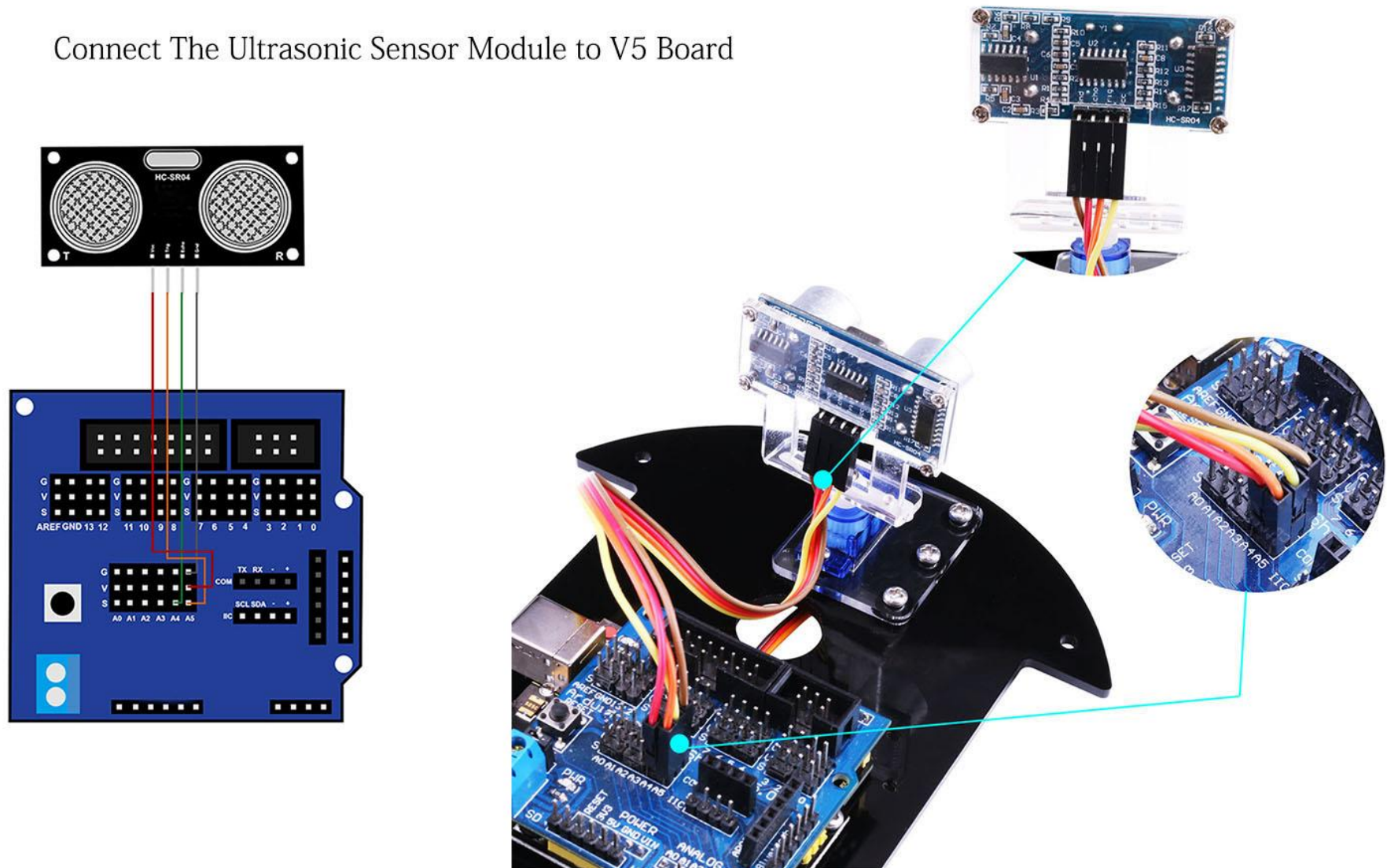
Connect The IR Module to V5 Board

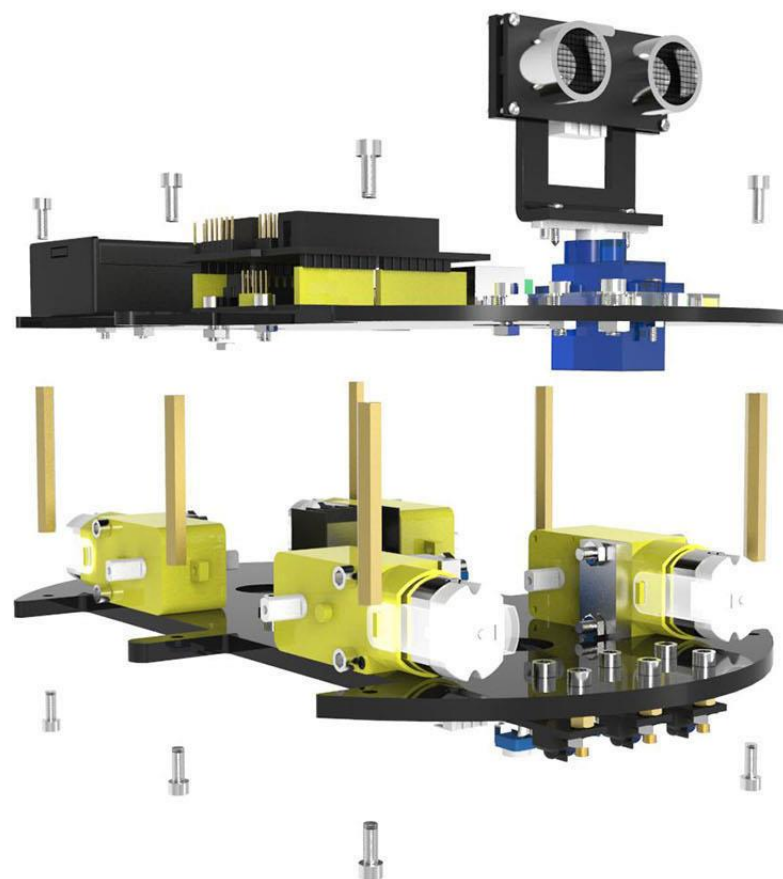
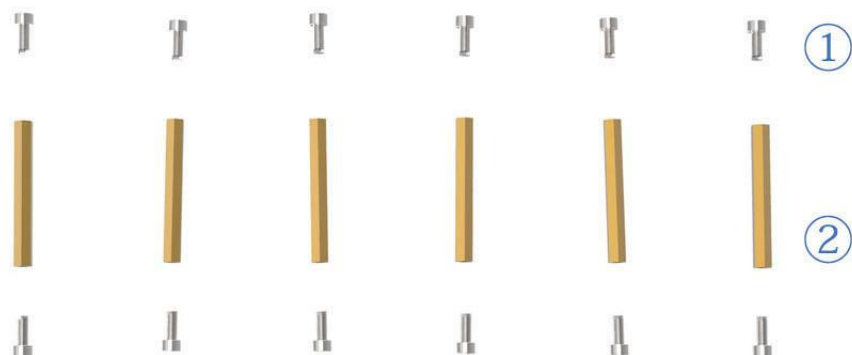
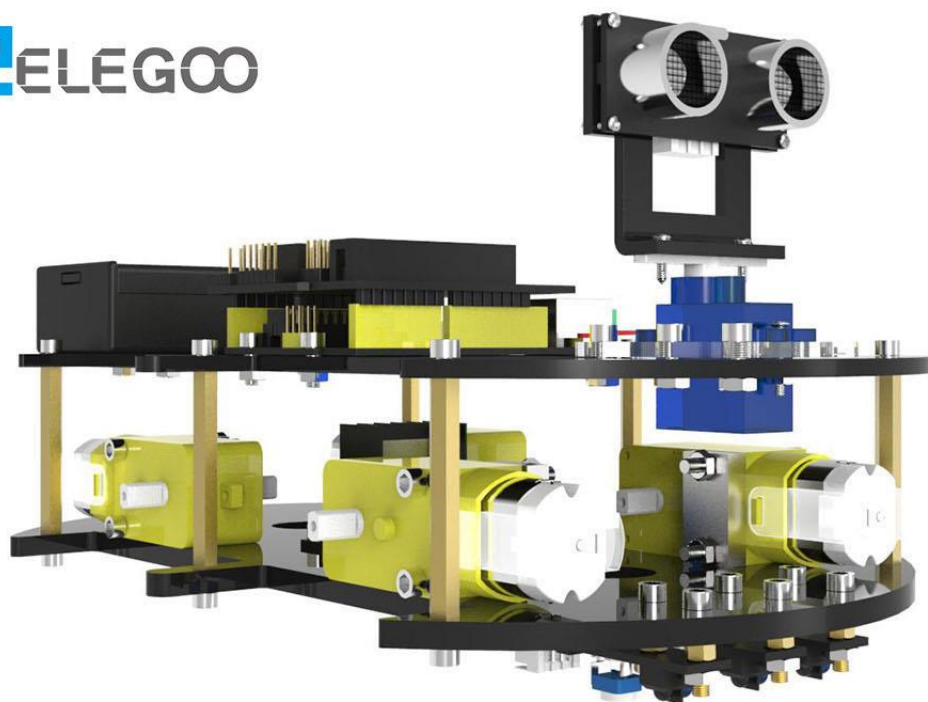


Connect the infrared receiver module to the expansion board with the DuPont lines

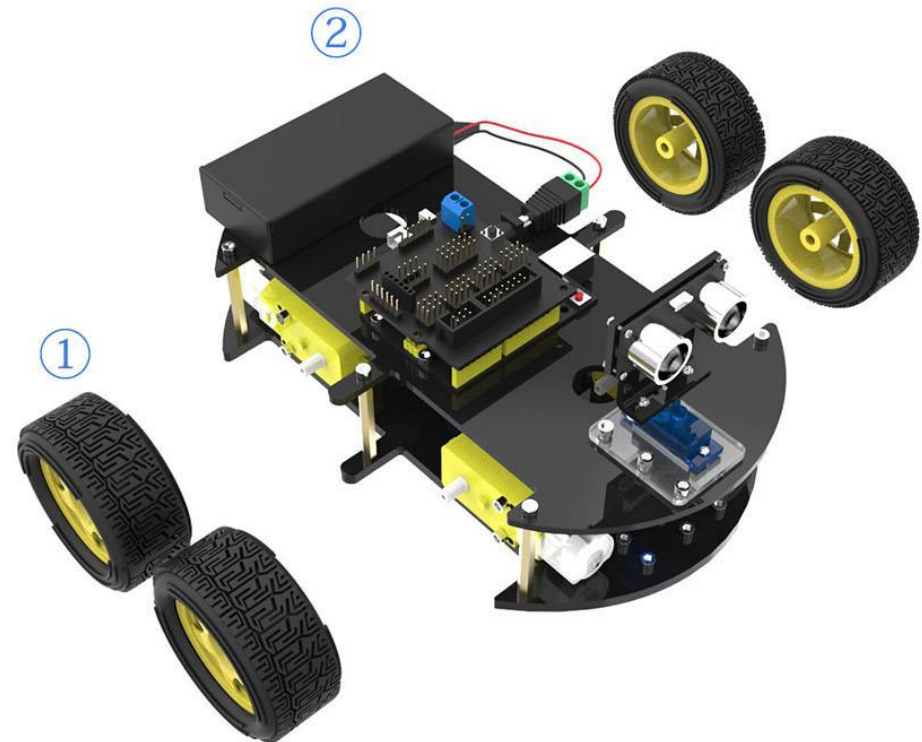


Connect The Ultrasonic Sensor Module to V5 Board





- ① M3 hex screws 3*10mm
- ② 3*40 copper column



① Tires

② The main body

3、 Summary

This tutorial is aimed at making it easier to assemble the car and if you find any problems or have any suggestions for the tutorial or the robot car please feel free to send us an email at service@elegoo.com (US and CA customers) or EUservice@elegoo.com (Europe customers).

After assembling and connecting all the components, we need to debug some basic programs of the car, which we will learn in the next lesson.