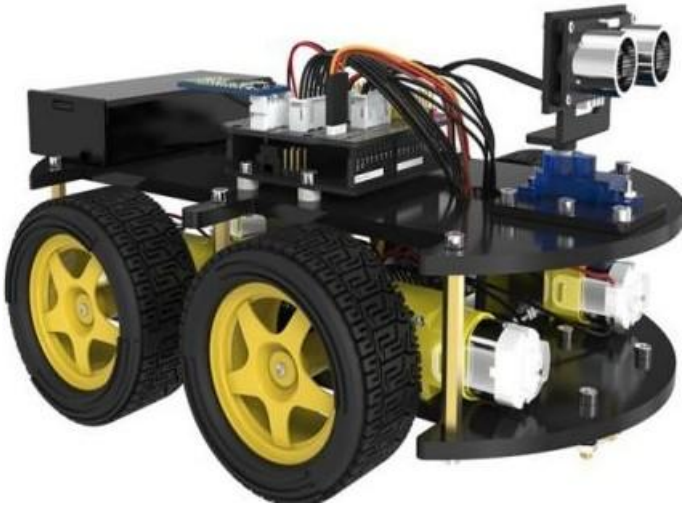
Assemble the Robot Step by Step

--on Production

(The Four-wheel car)



Preface

Our Company

KUONGSHUN Electronic Company is a supplier and manufacturer of electronic components, it is committed to board and starter kit for Arduino, Raspberry PI, Smart Robot Car, 3D printer. It is also a collection of scientific research, design, production, maintenance and sales of high-tech enterprises, in the field of automation with professional standards and mature technology, we rapid rise in the field of foreign trade.

Relying on technology and development, continuing to provide users with high-tech products, is our constant pursuit. Fully introduction of foreign advanced technology to enhance the value of our products.

Company gains users' praise for supplying first-class quality product and superb technical services, has now become the first choice of domestic and international procurement company.

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

Our Tutorial

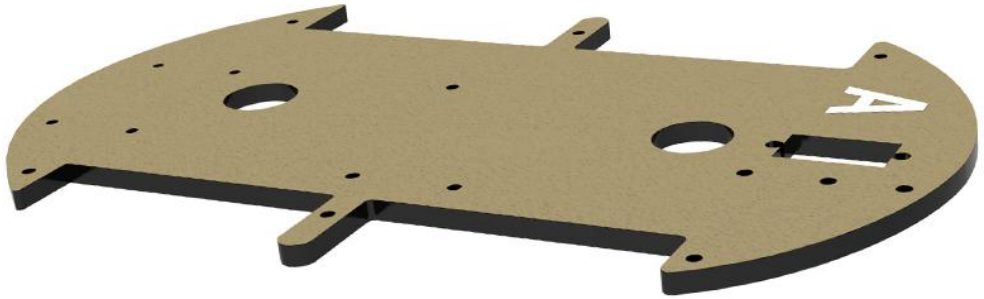
This course and learning kit is designed for 8+ children and teenagers to Arduino-compatible boards, shields, sensors, and components. If you just start making with Arduino, this kit could provide the knowledge and components to create innovative projects.

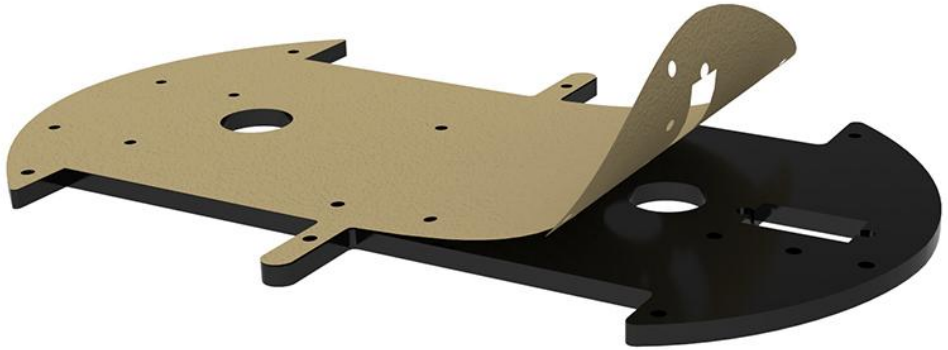
Customer Service

As a continuous and fast growing technology company we keep striving our best to offer you excellent products and quality service as to meet your expectation and you can reach out to us by simply drop a line at info@kuongshun.cn We look forward to hearing from you and any of your critical comment or suggestion would be much valuable to us.

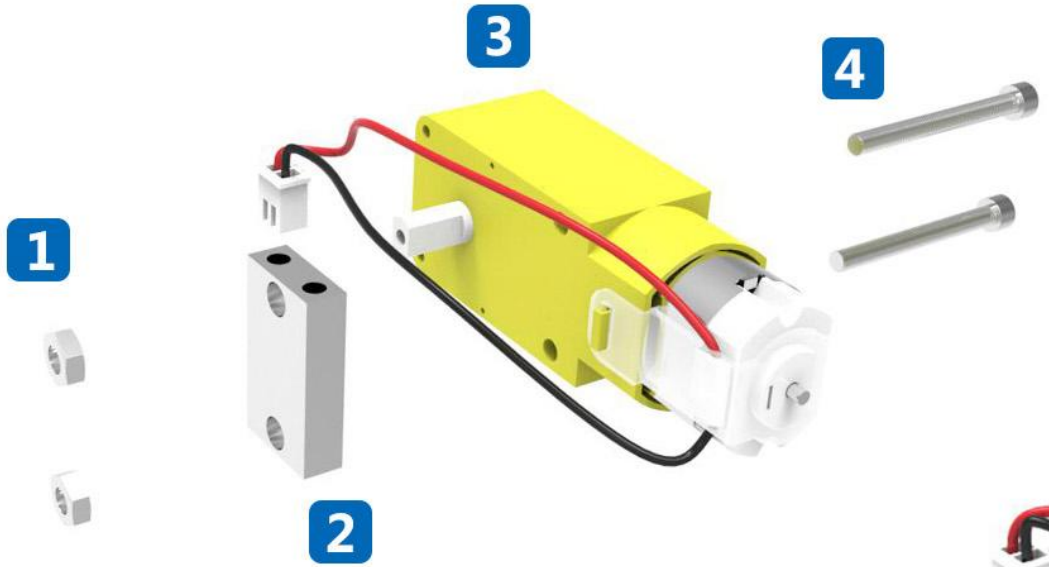
And any of problems and questions you have with our products will be promptly replied by our experienced engineers within 12 hours (24hrs during holiday)

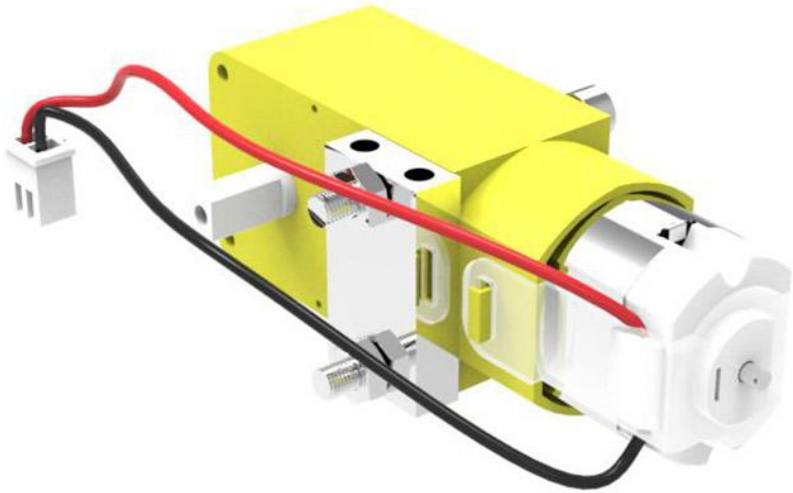
we pursue the policy of "progressive, Truth, Rigorous and Unity", keeping innovation, paying attention of technology as the core, committing to quality and putting customer’s satisfaction on the priority, dedicated to provide you with the most cost-effective high-tech products and attentive service.





Attention: Remove the protective film before assembling





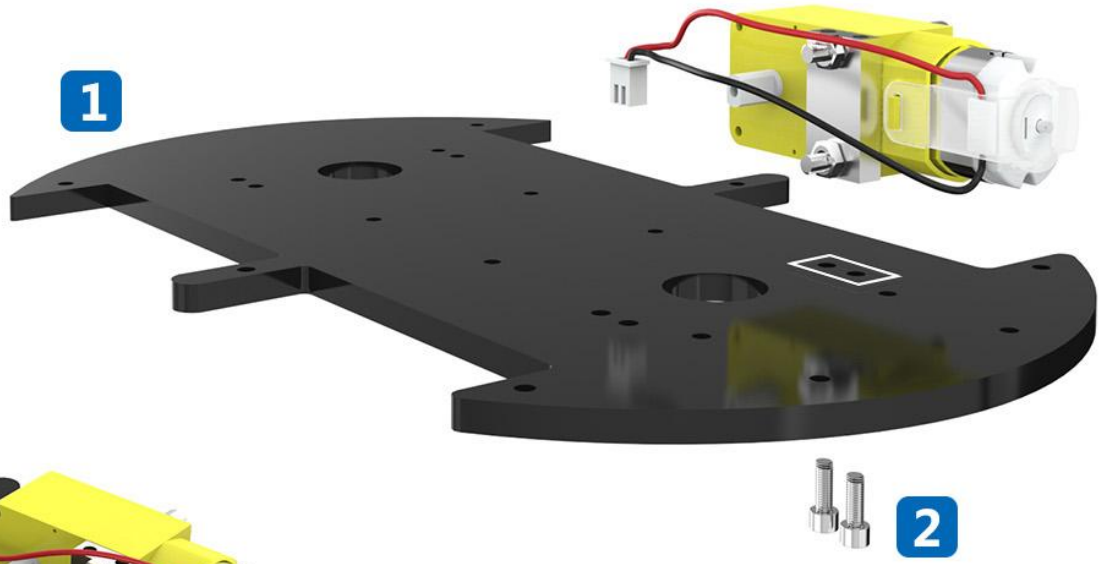
1 2×M3 nuts

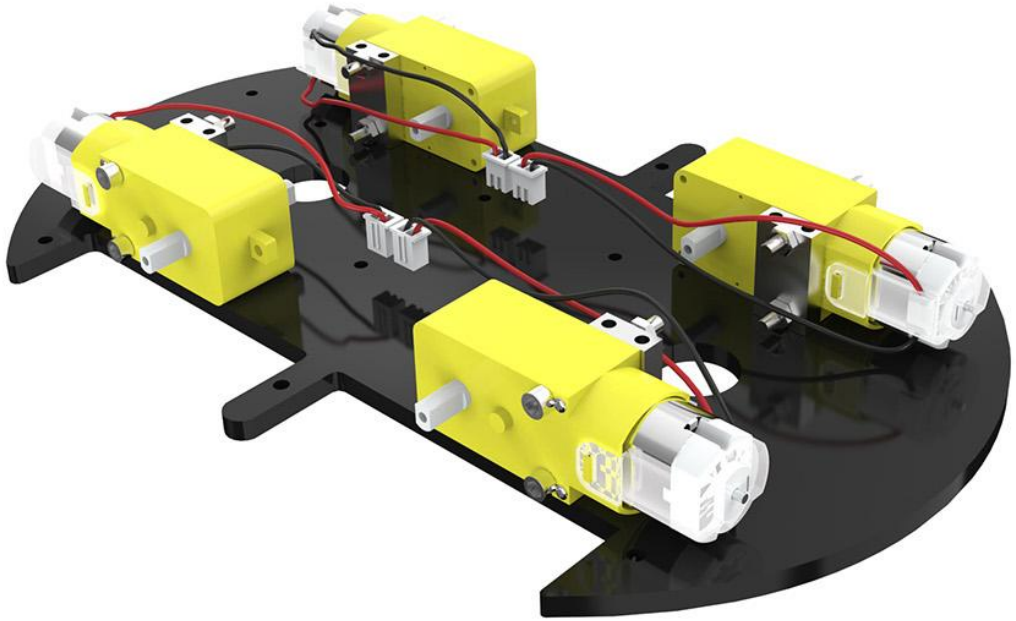
2 1×Aluminium Block

3 1×DC motor

4 2×M3*30 hexagon socket screws

Take out 1 2 4 from the bag with label "FOR MOTOR"



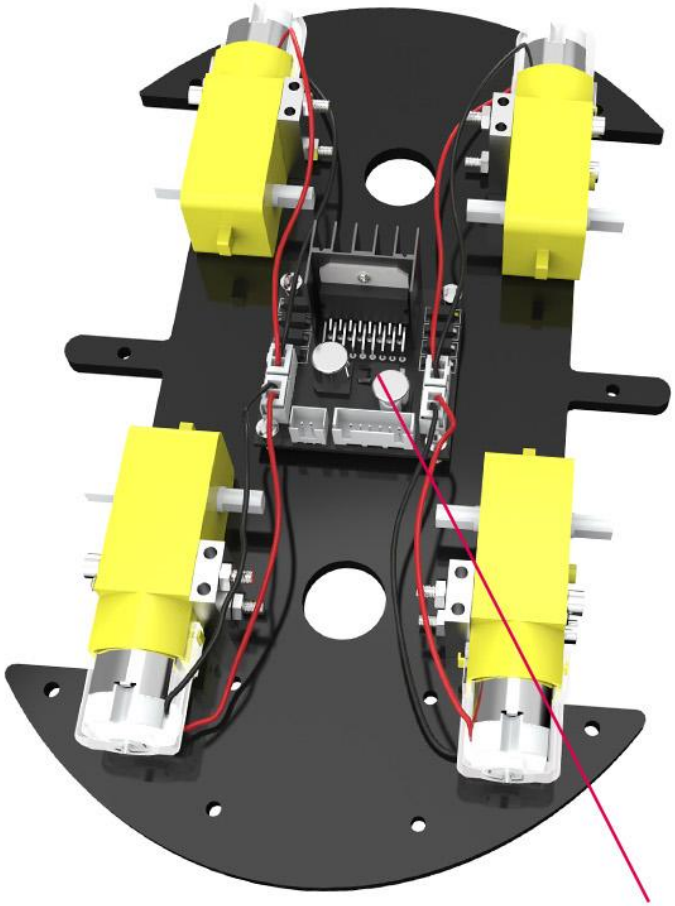


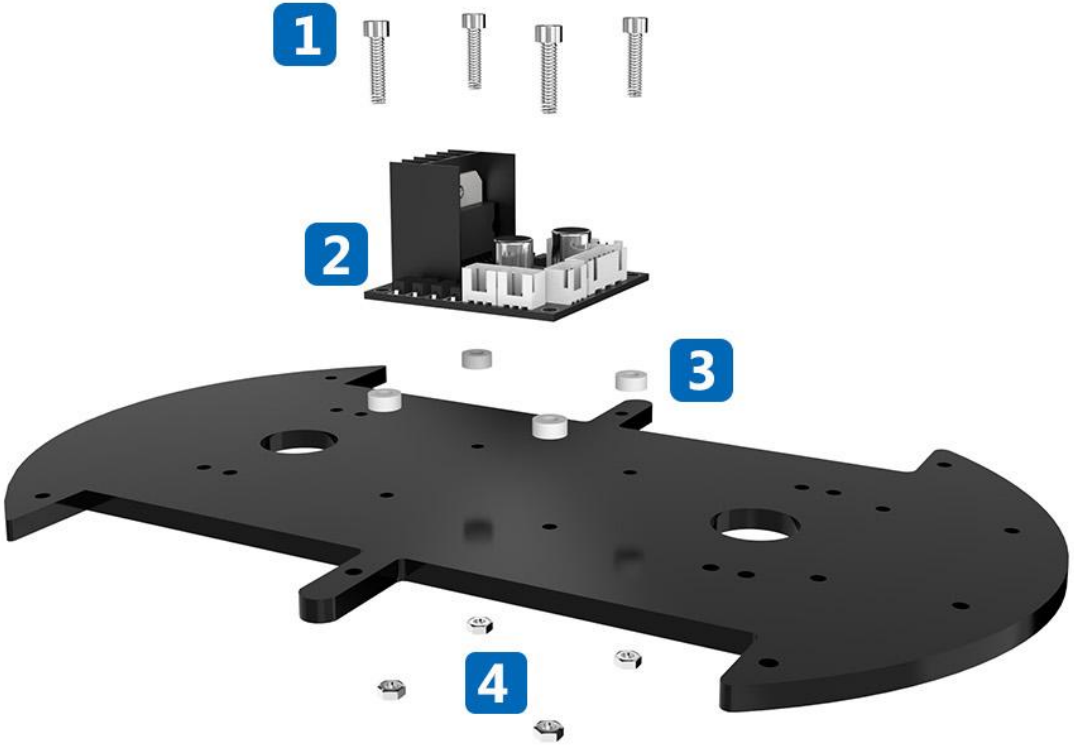
1 1×Acrylic Chassis

2 2×M3*10 hexagon socket screws

Take out 2 from the bag with label "FOR MOTOR"

Fasten the screws into the holes in the white frame





1 4×M3*14 hexagon socket screws

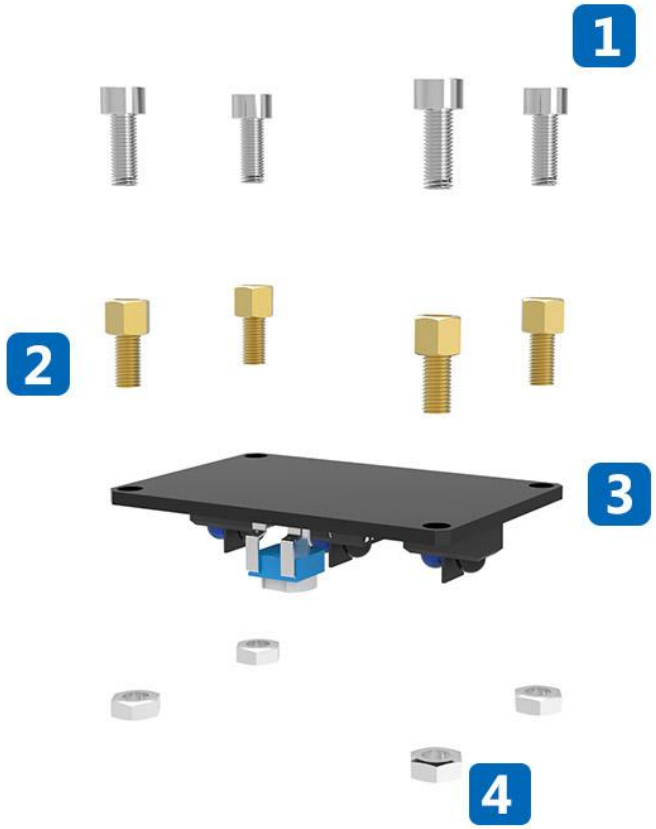
2 1×L298N

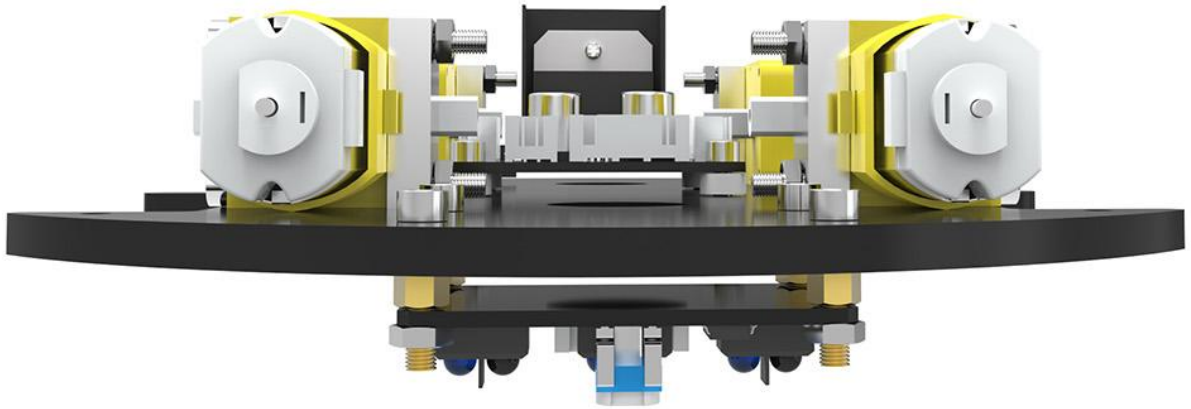
3 4×separation shim

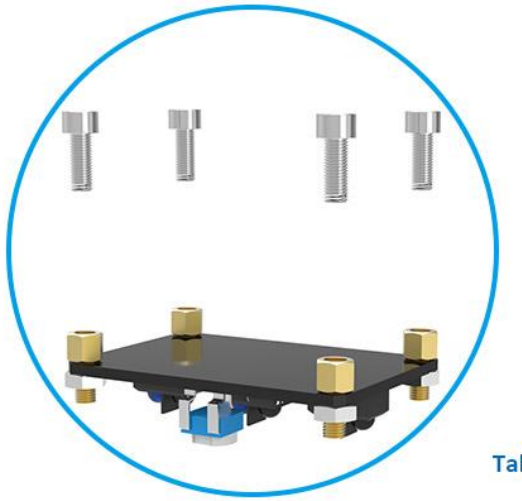
4 4×M3 nuts

pay attention to the direction of L298N module.

Take out 1 3 4 from the bag with label "FOR UNO 、 L298N"







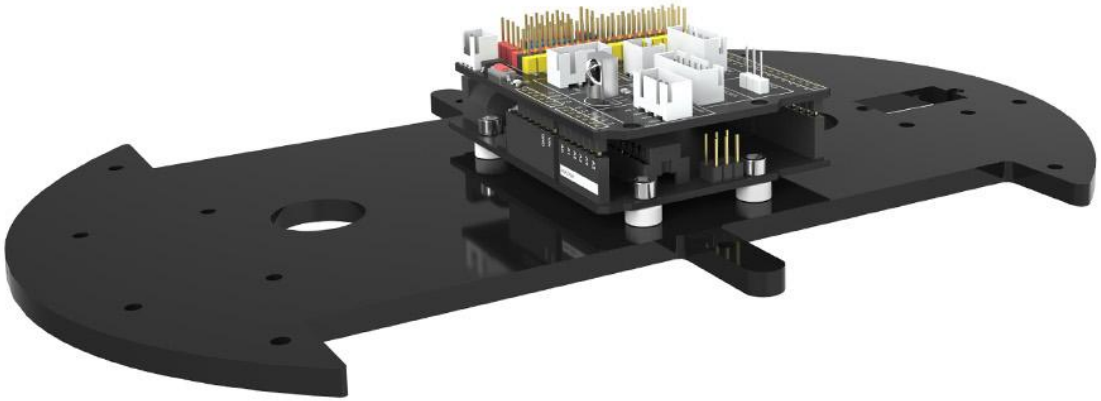
1 4×M3*7 hexagon socket screws

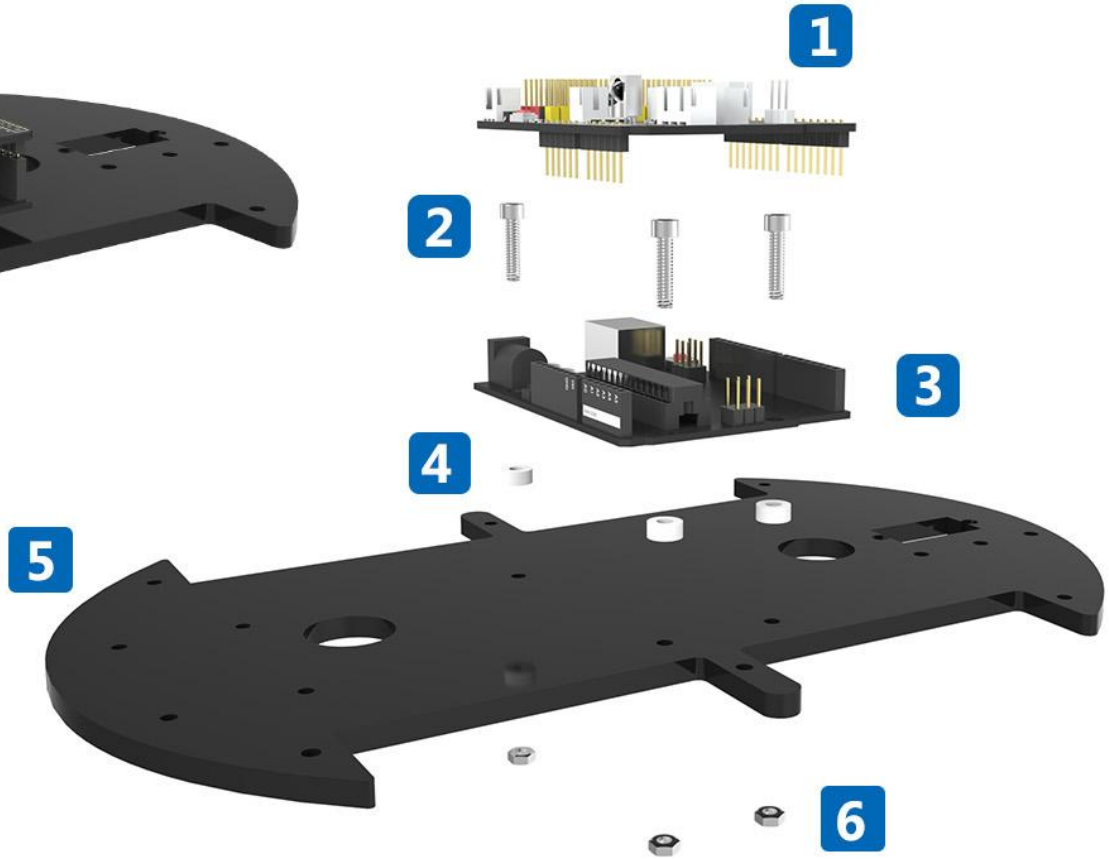
2 4×M3*4+6 single-pass copper cylinder

3 1×Line tracking module

4 4×M3 nuts

Take out 1 2 4 from the bag with label "FOR LINE TRACEING"





1 1×IO expansion board

2 3× M3*14 hexagon socket screws

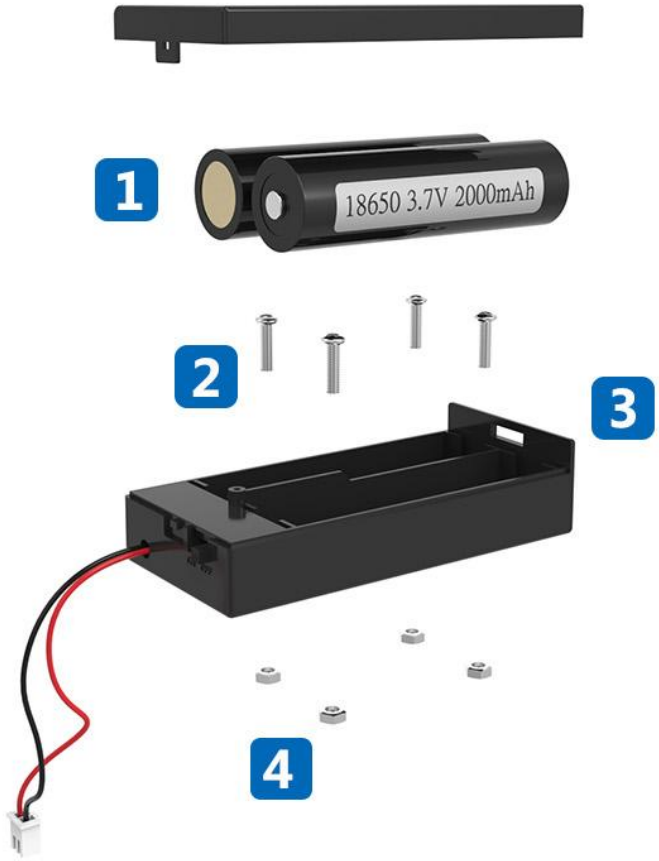
3 1×UNO R3 core board

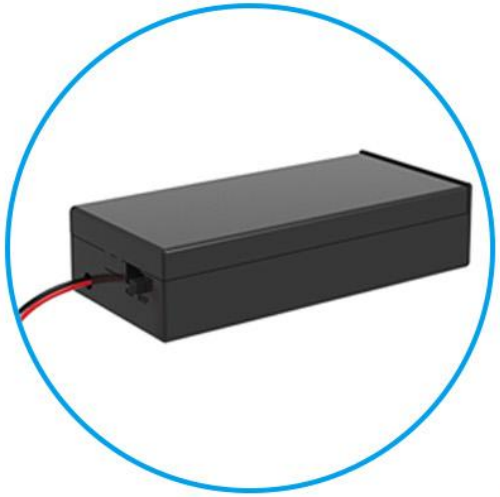
4 3×separation shim

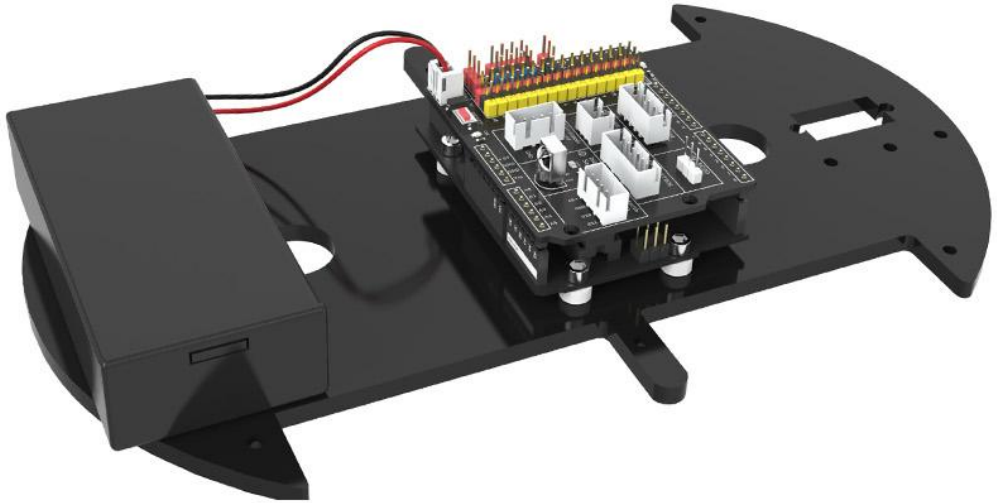
5 1×Acrylic Chassis

6 3× M3 nuts

Take out 2 4 6 from the bag with label "FOR UNO、L298N"







1 2×18650 Batteries

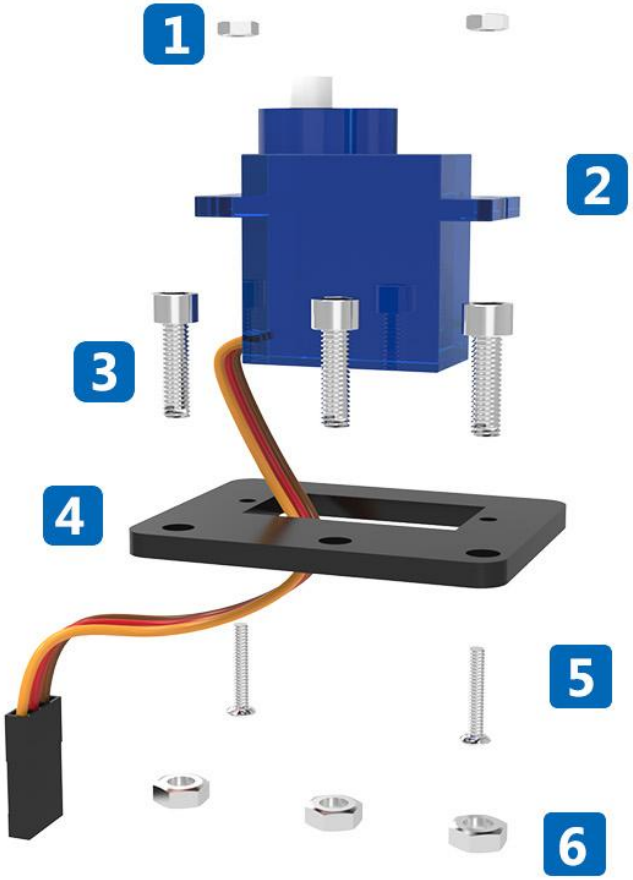
2 4×M3*10Cross screw

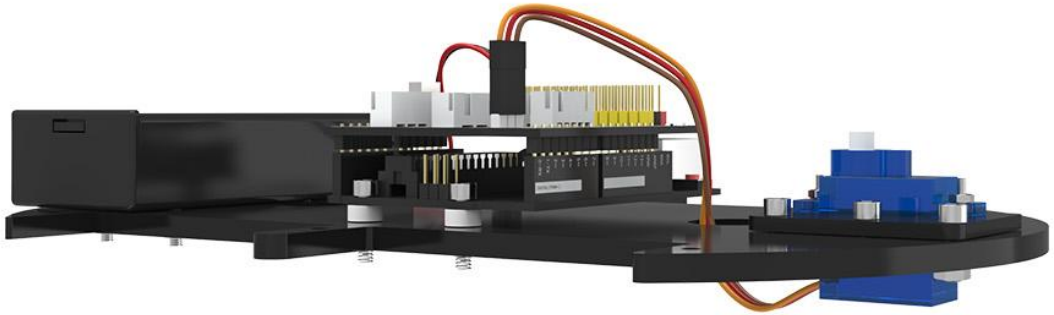
3 1×Battery compartment

4 4×M3 nuts

Take out 2 4 from the bag with label "FOR CELL BOX"

Please fully charge the 18650 Lithium batteries before using them.





1 2×M2 nuts

2 1×SG90 Micro Servo

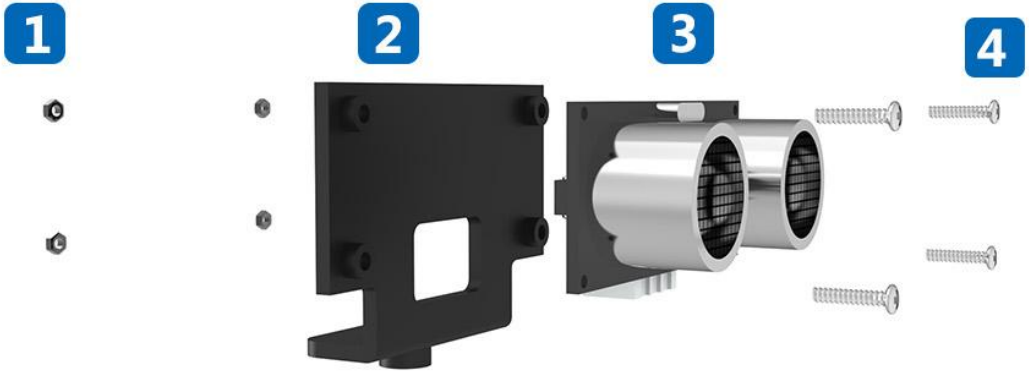
3 3×M3*10 hexagon socket screws

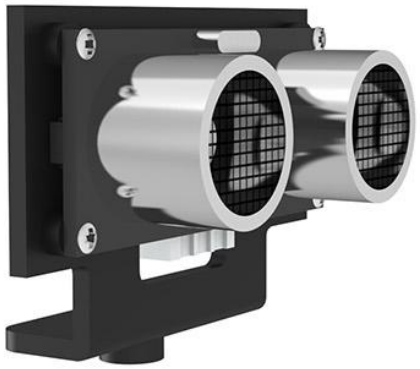
4 1×Dead plate

5 2×M2*10 Cross screw

6 3× M3 nuts

Take out 1 3 5 6 from the bag with label "FOR ULTRASONIC "





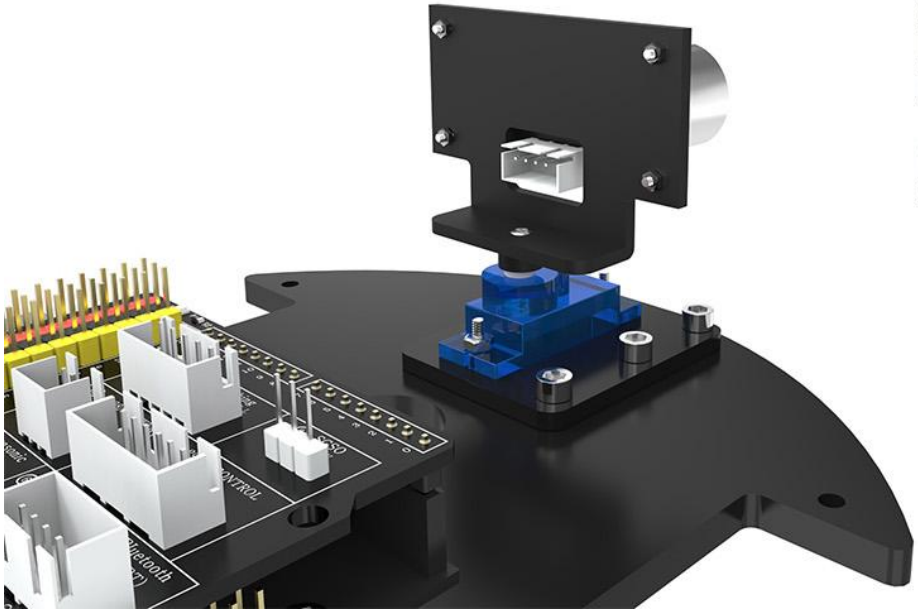
1 4×M1.6 nuts

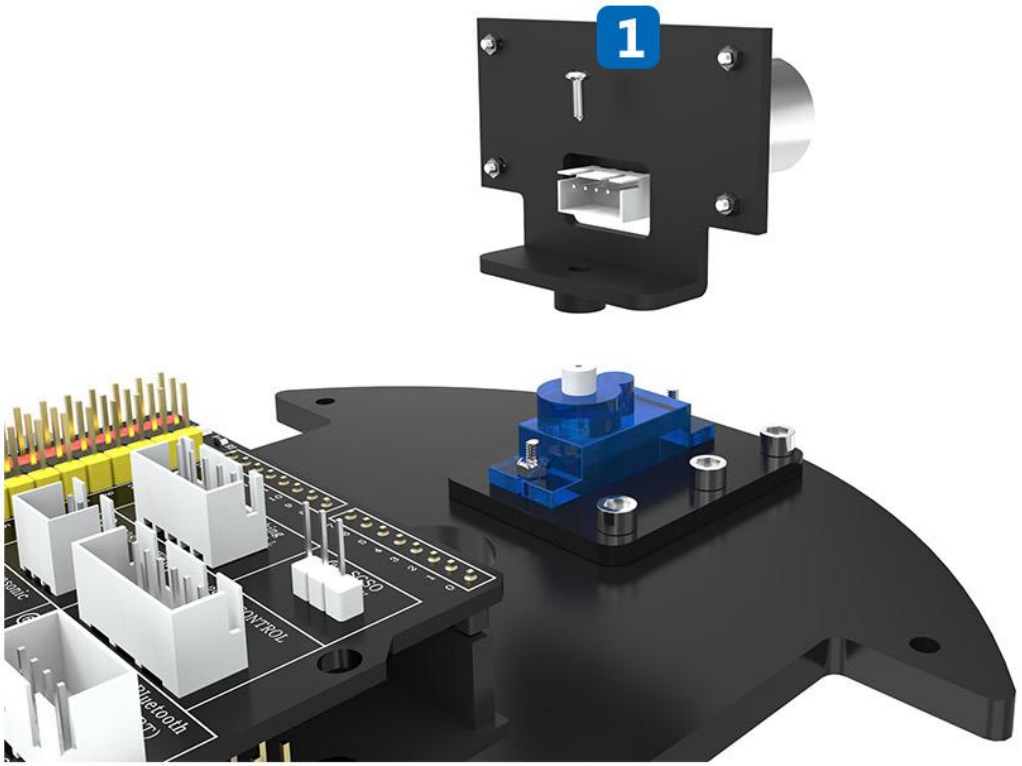
2 1×Ultrasonic sensor module holder

3 1×Ultrasonic sensor module

4 4×M1.6*8 Cross screw

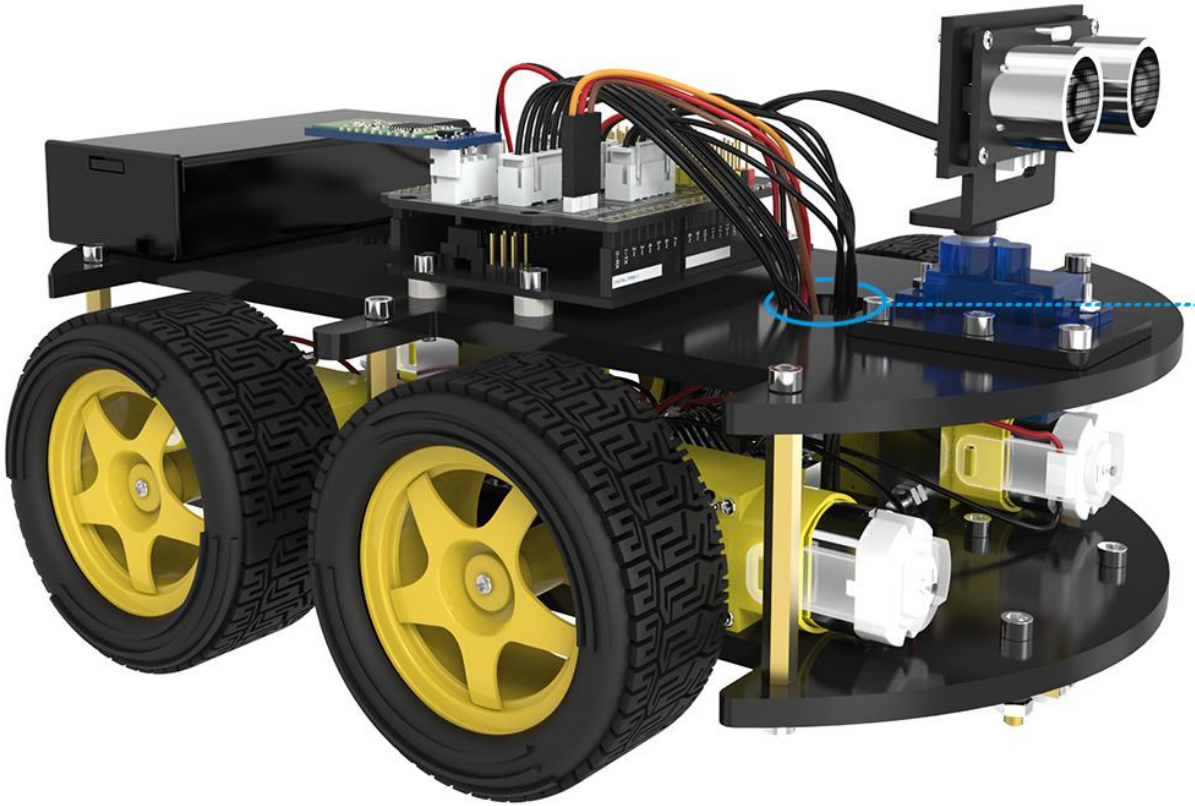
Take out 1 4 from the bag with label "FOR ULTRASONIC"





1 1×M2*4 self-tapping screws

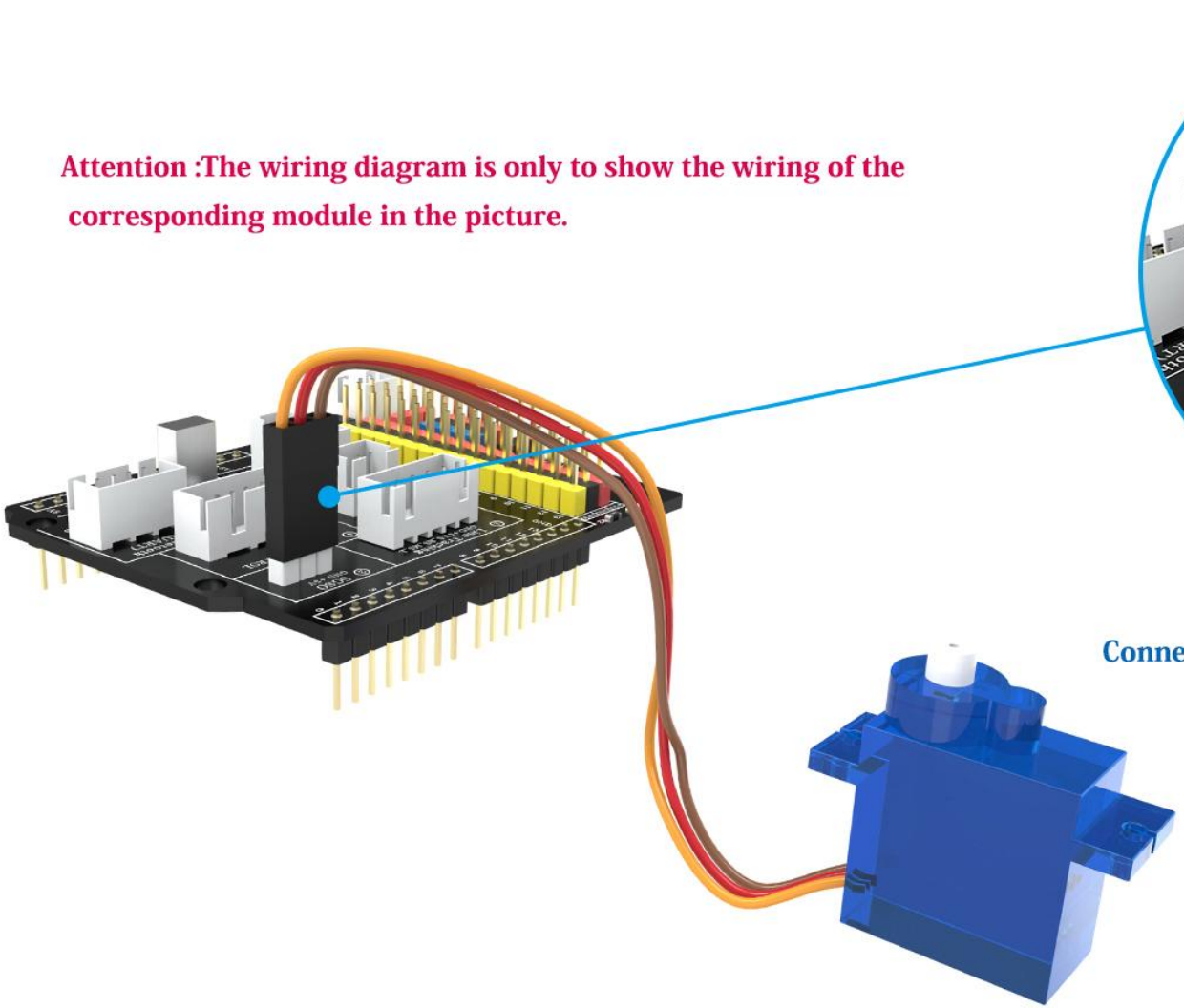
Take out 1 from the bag with label "FOR SG90 MICRO SERVO"

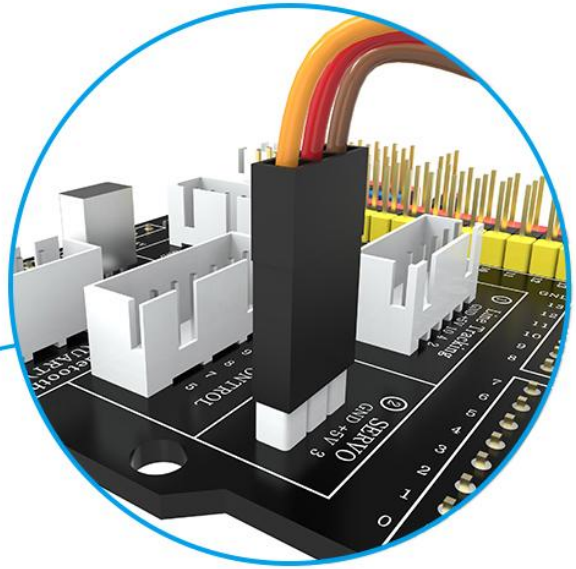


micro servo 3P cable
L298N 6P cable
L298N 2P cable
line-tracking module 5P cable

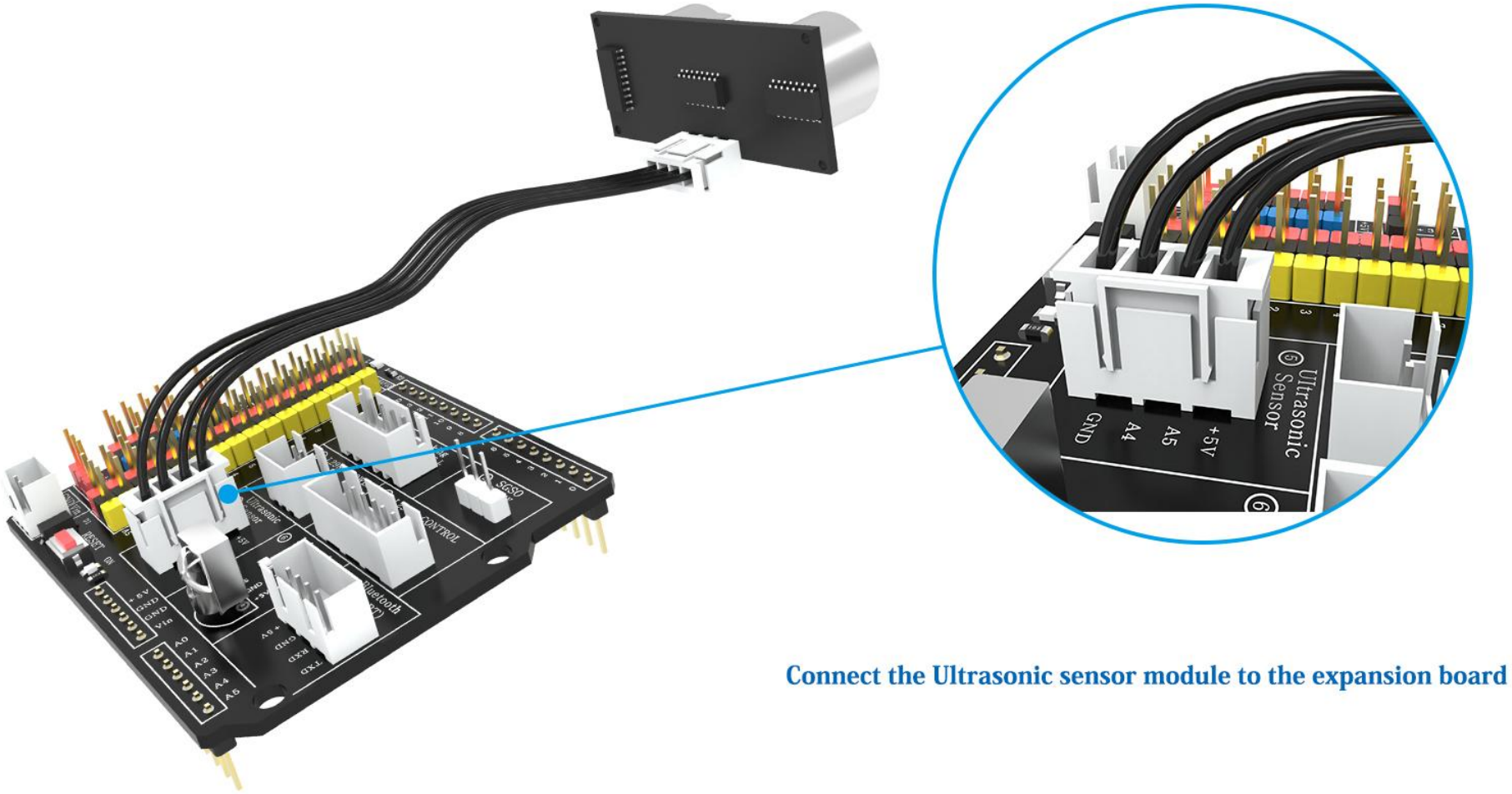
Attention: In the next wiring procedures,
Some of the cables need to go through this hole

Attention :The wiring diagram is only to show the wiring of the corresponding module in the picture.

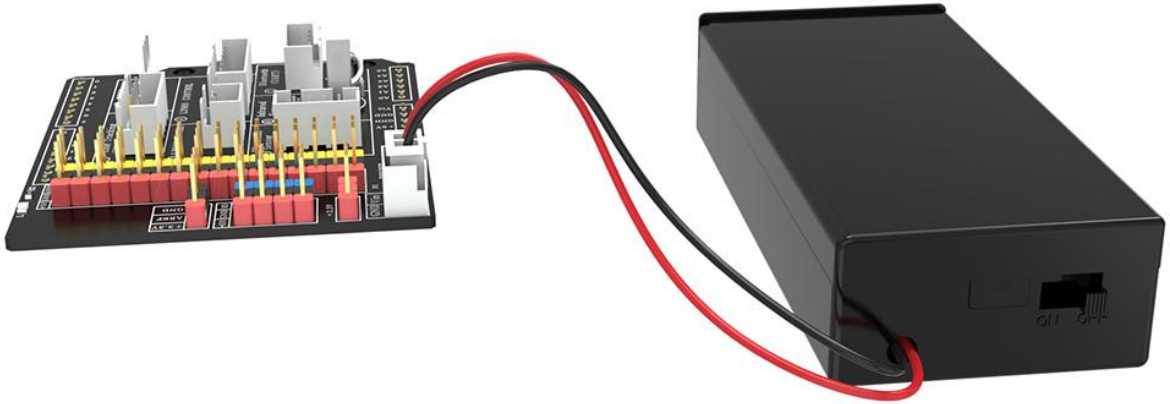




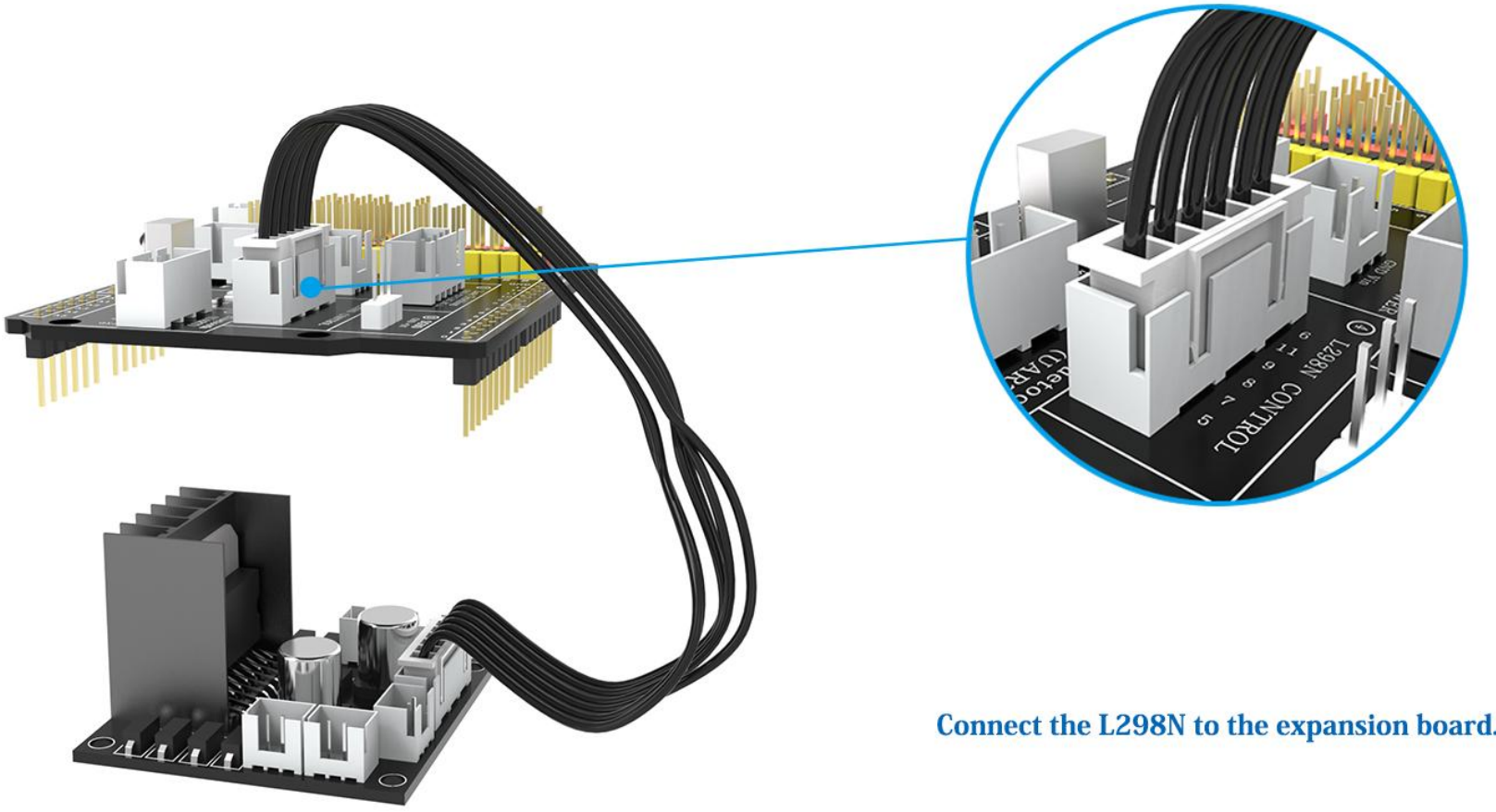
Connect the Micro servo to the expansion board



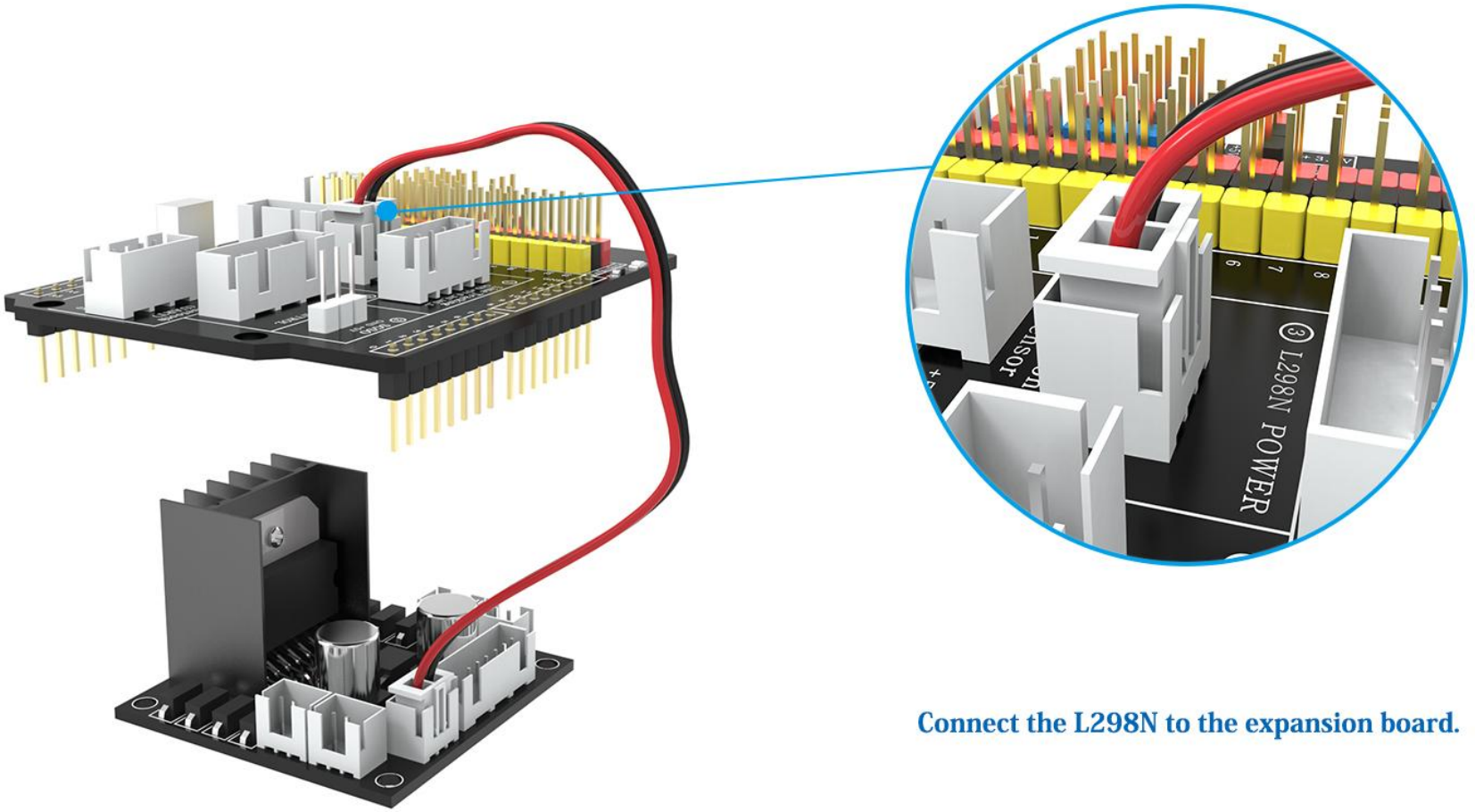
Connect the Ultrasonic sensor module to the expansion board



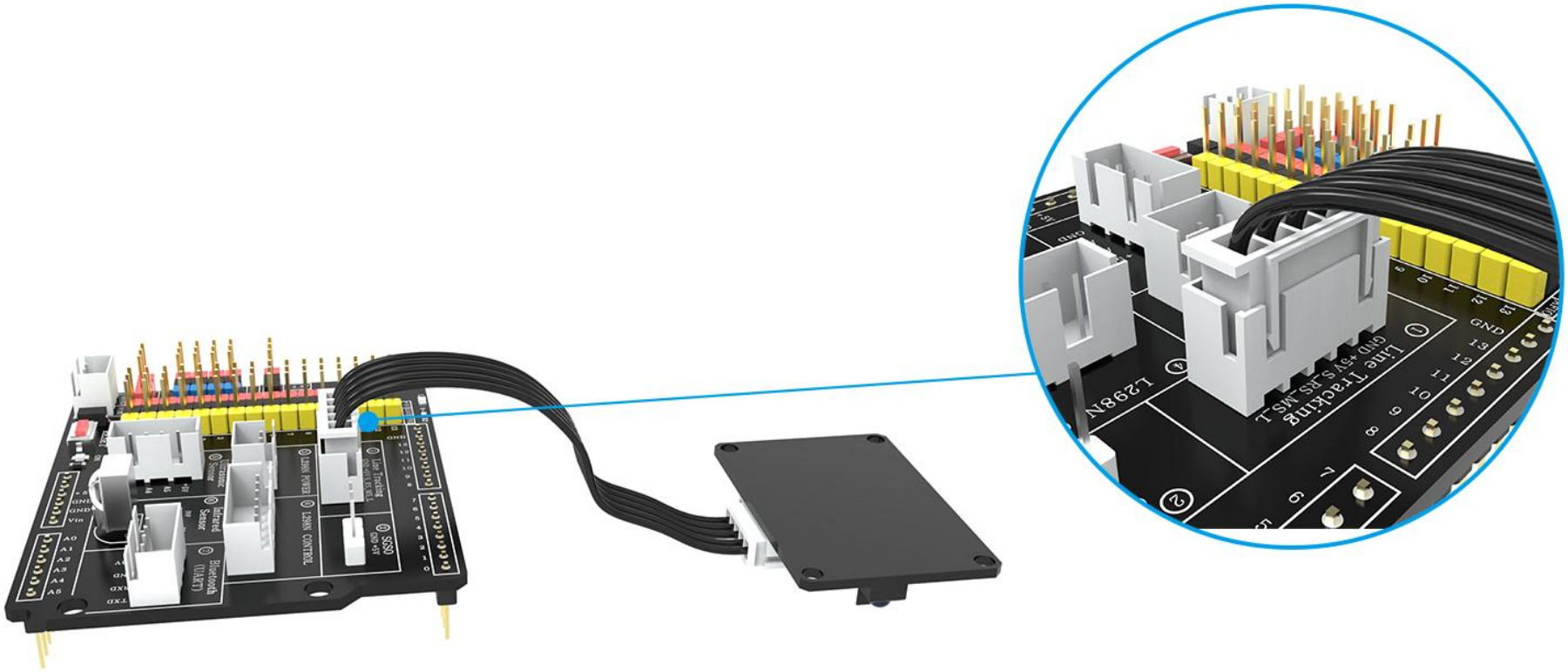
Connect the battery compartment to the expansion board.



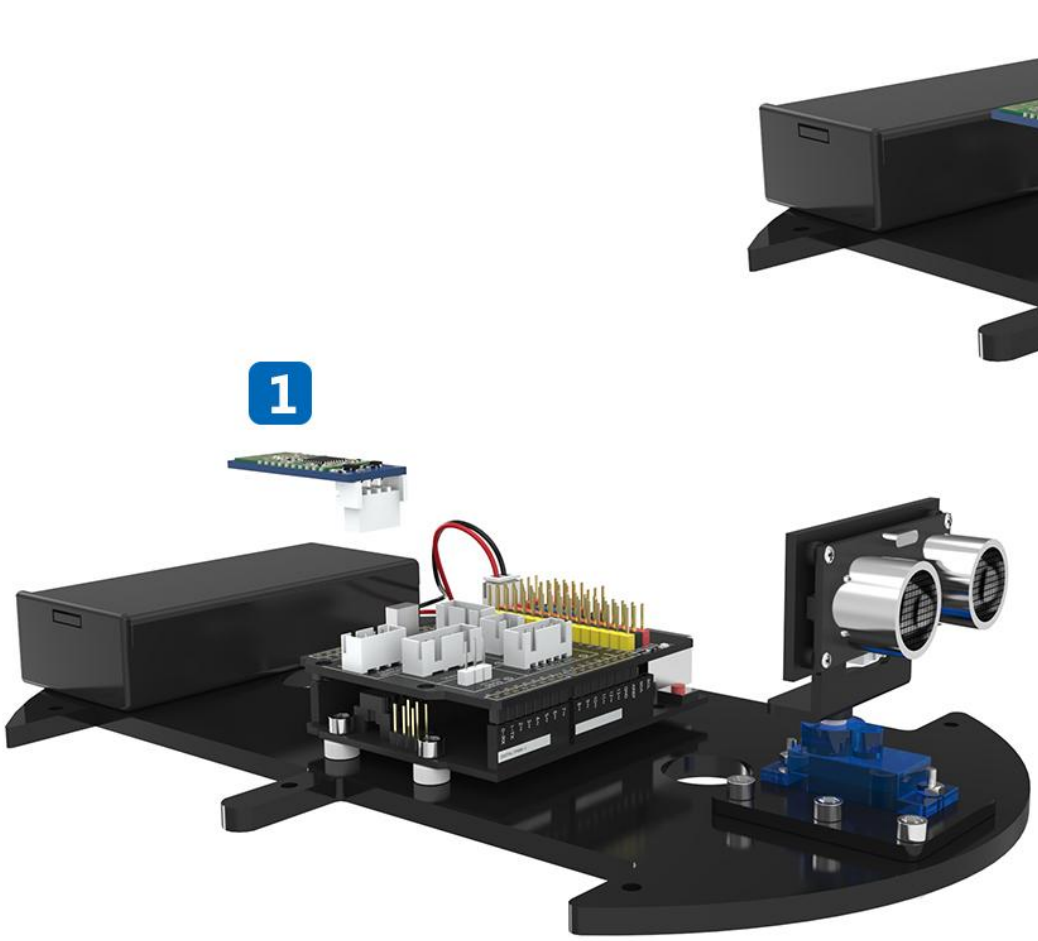
Connect the L298N to the expansion board.

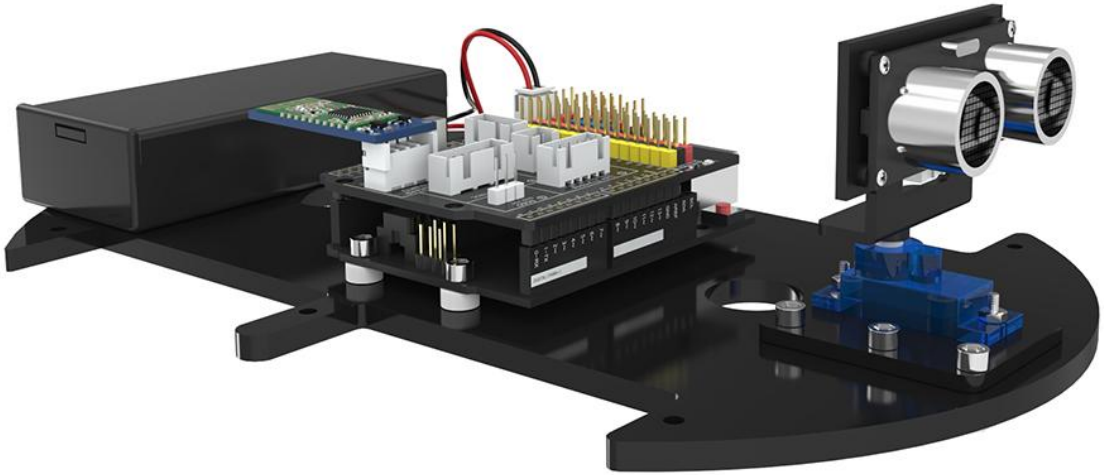


Connect the L298N to the expansion board.

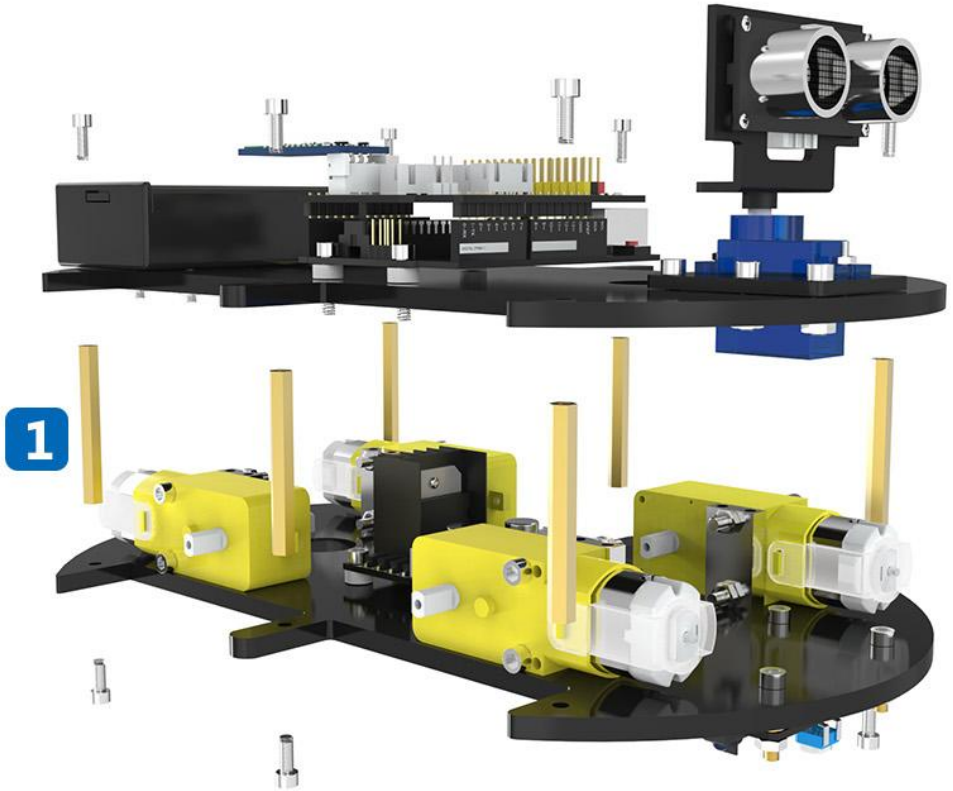


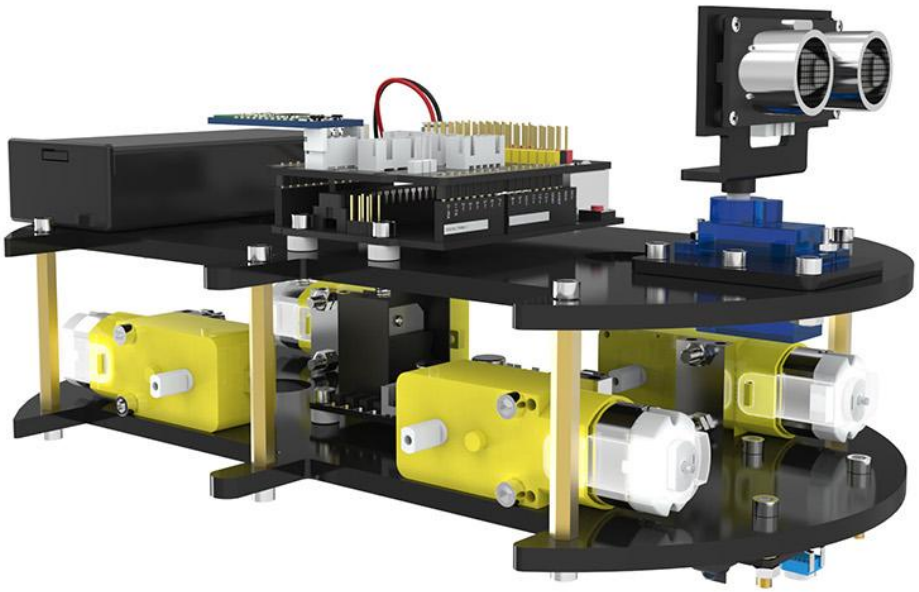
Connect the line tracking module to the expansion board.





1 1×Bluetooth module

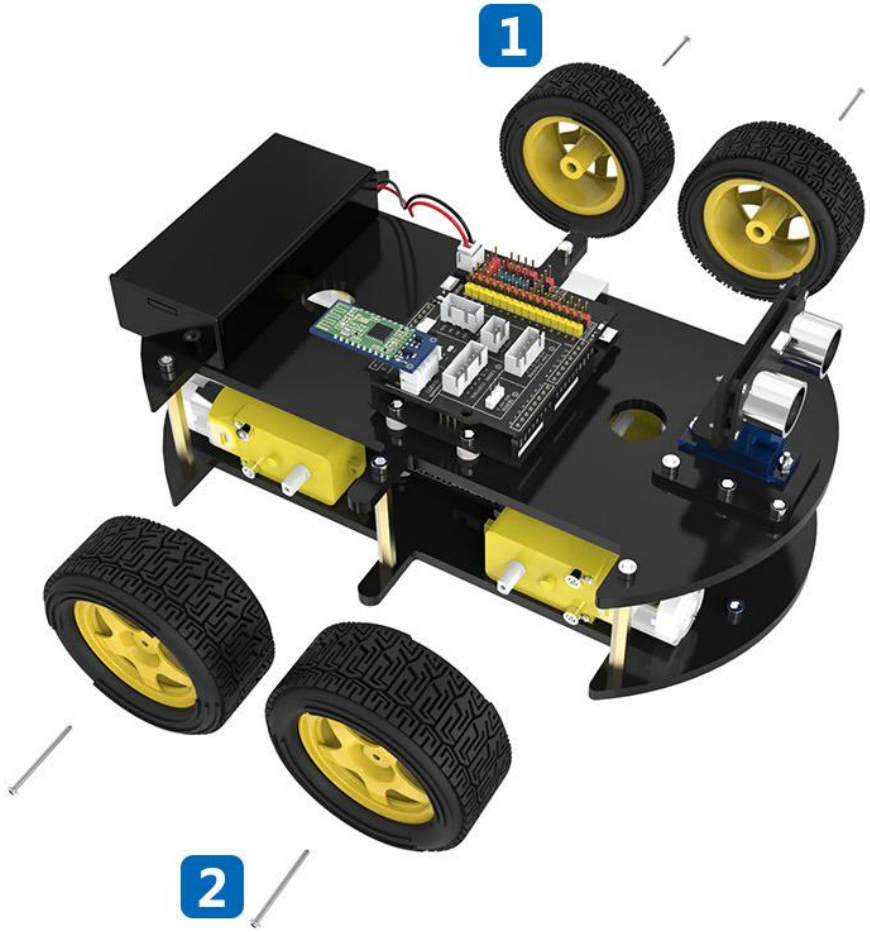


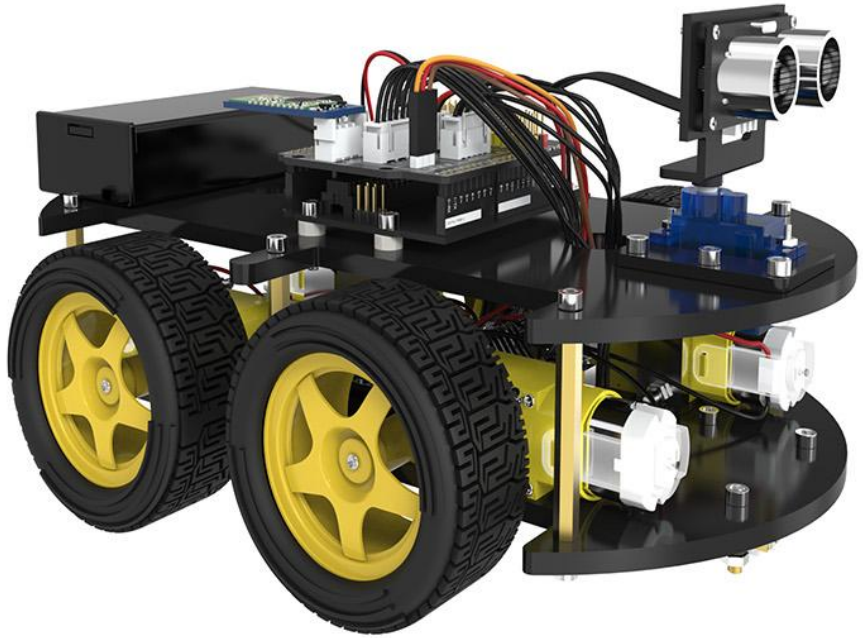


1 6×M3*40 double-pass copper cylinder

2 12×M3*10 hexagon socket screws

Take out 1 2 from the bag with label "FOR ACRYLIC BASEPLATE"





1 4×Tires

2 4×M2*25 Cross screw

Take out 2 from the bag with label "FOR TIRES"

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 info@kuongshun.cn

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.