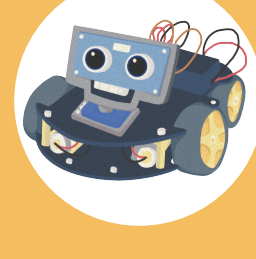
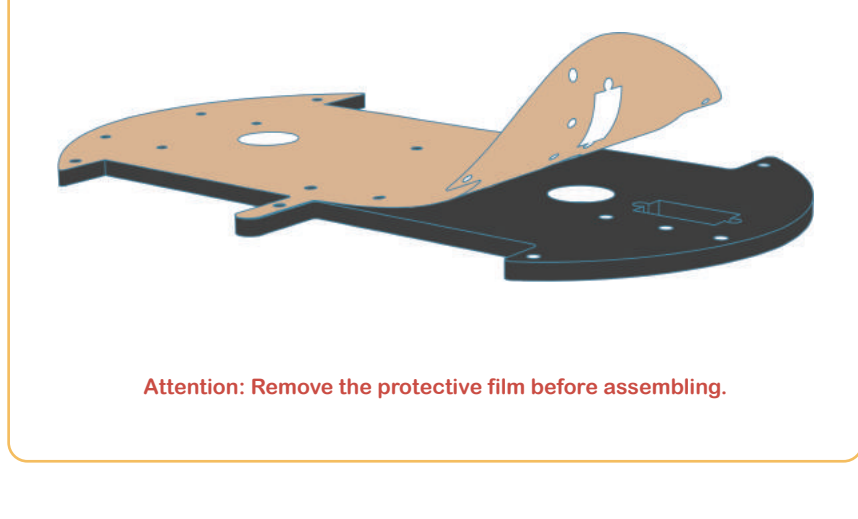


SMART ROBOT CAR KIT 3.0

Assembly Tutorial



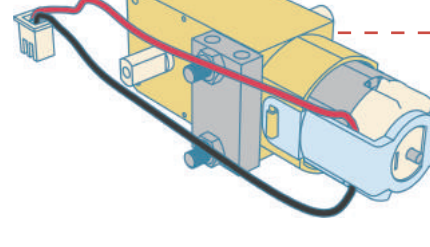
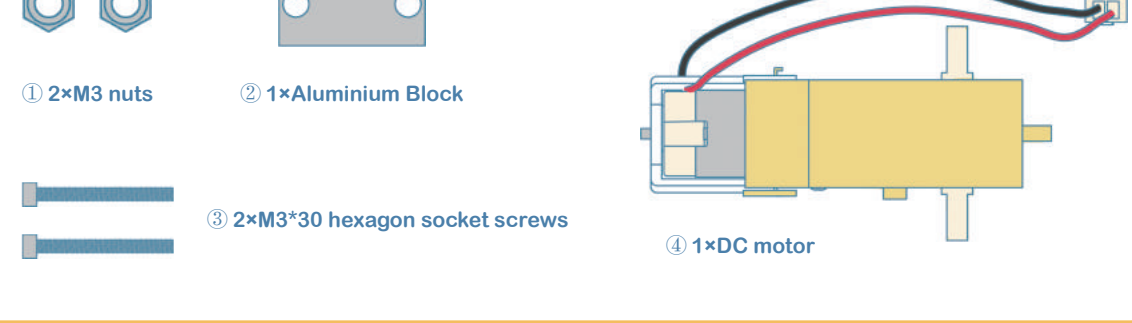
SMART ROBOT CAR KIT 3.0



Attention: Remove the protective film before assembling.

1

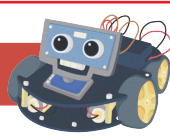
SMART ROBOT CAR KIT 3.0



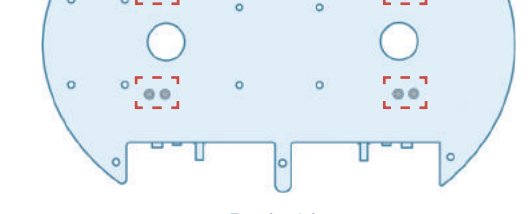
Take out ① ② ③ from the bag with label "FOR MOTOR".

2

SMART ROBOT CAR KIT 3.0



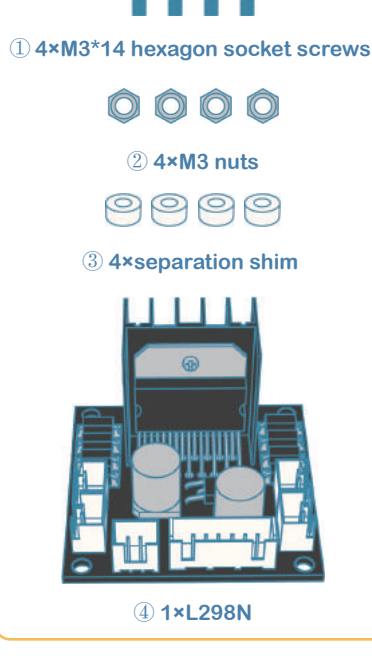
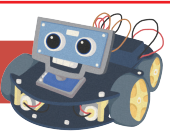
Take out ① from the bag with label "FOR MOTOR".



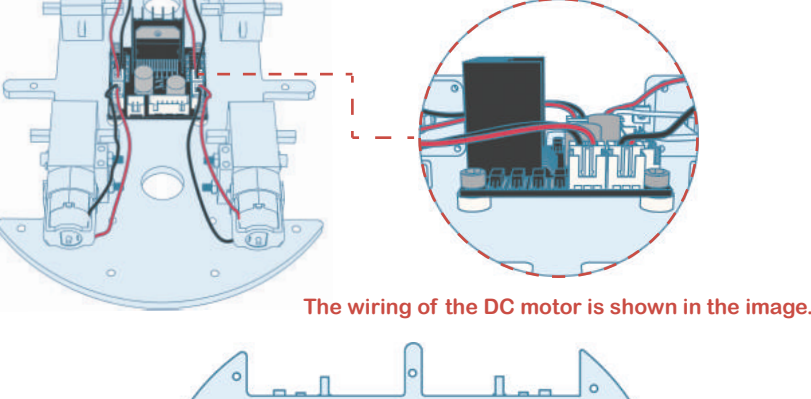
Back side

3

SMART ROBOT CAR KIT 3.0



Take out ① ② ③ from the bag with label "FOR UNO - L298N".



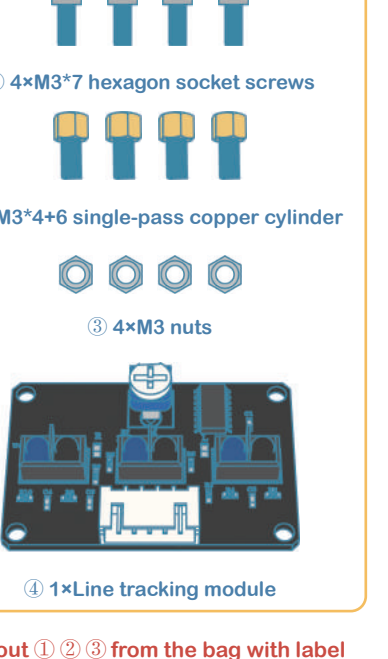
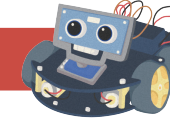
Pay attention to the direction of L298N module.

The wiring of the DC motor is shown in the image.

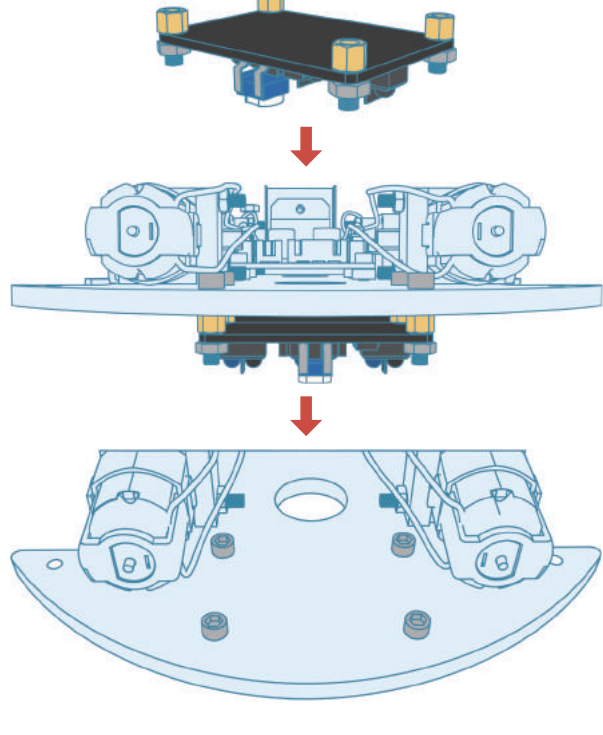
Back side

4

SMART ROBOT CAR KIT 3.0

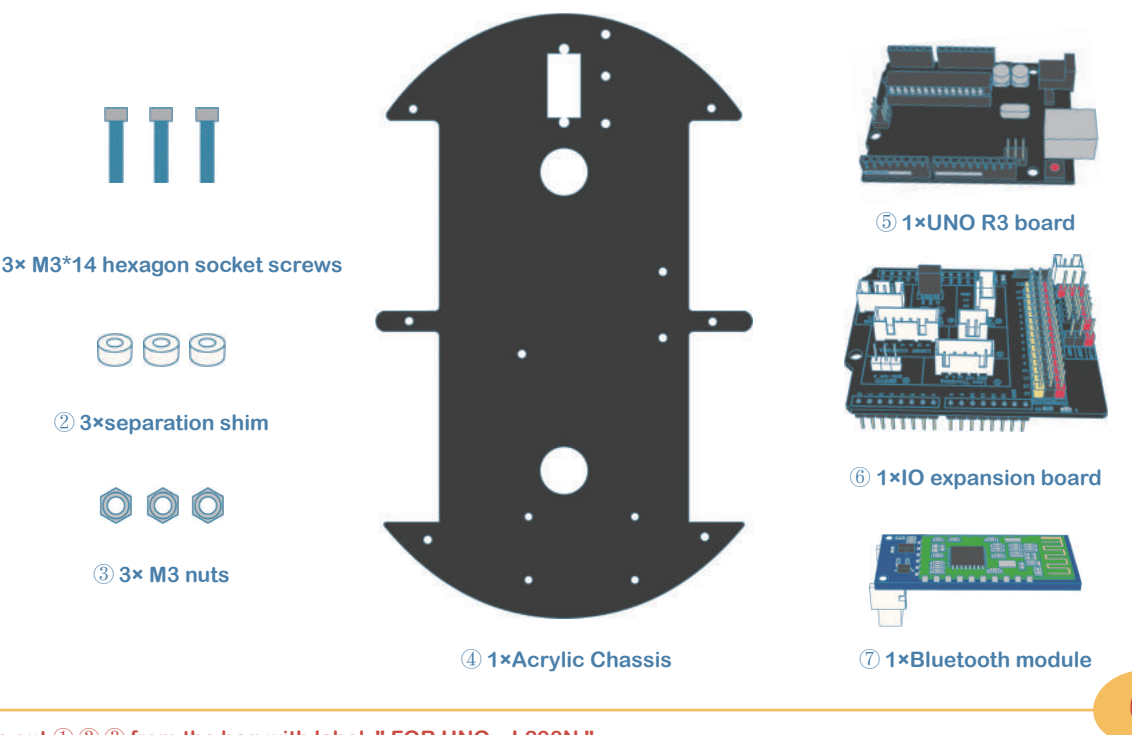
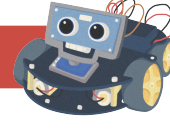


Take out ① ② ③ from the bag with label "FOR LINE TRACKING".



5

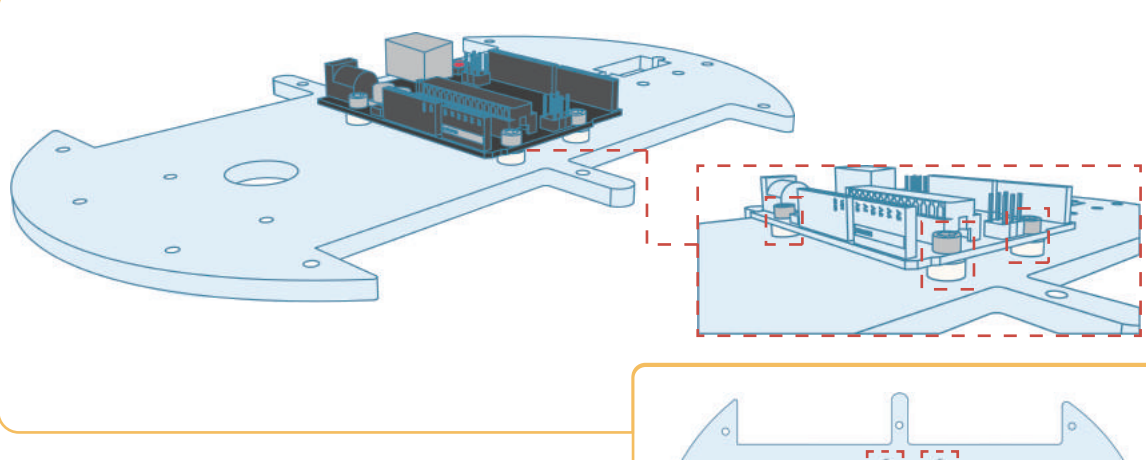
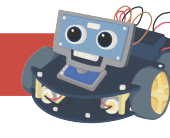
SMART ROBOT CAR KIT 3.0



Take out ① ② ③ from the bag with label "FOR UNO - L298N".

6

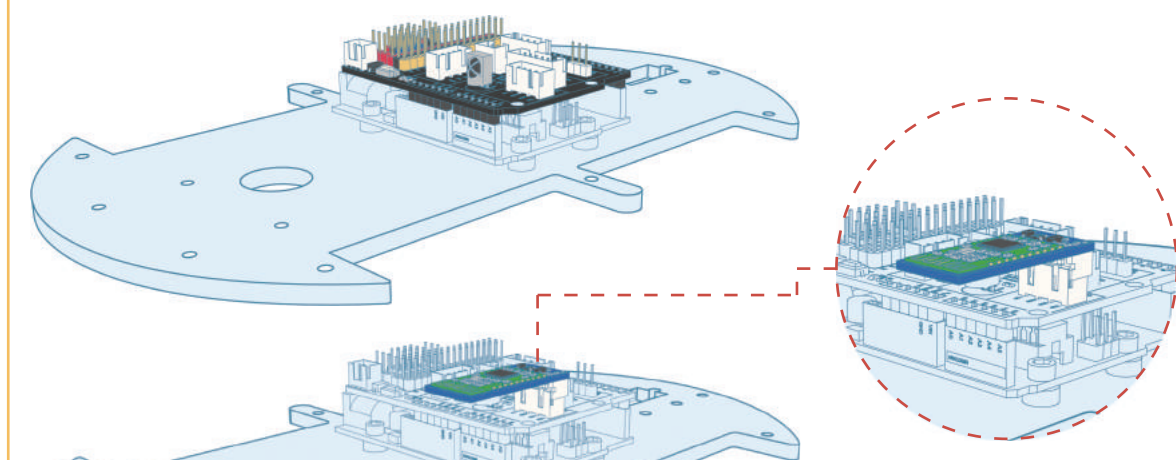
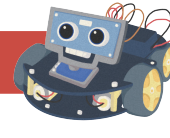
SMART ROBOT CAR KIT 3.0



Pay attention to the front and back side of the acrylic chassis when assembling.

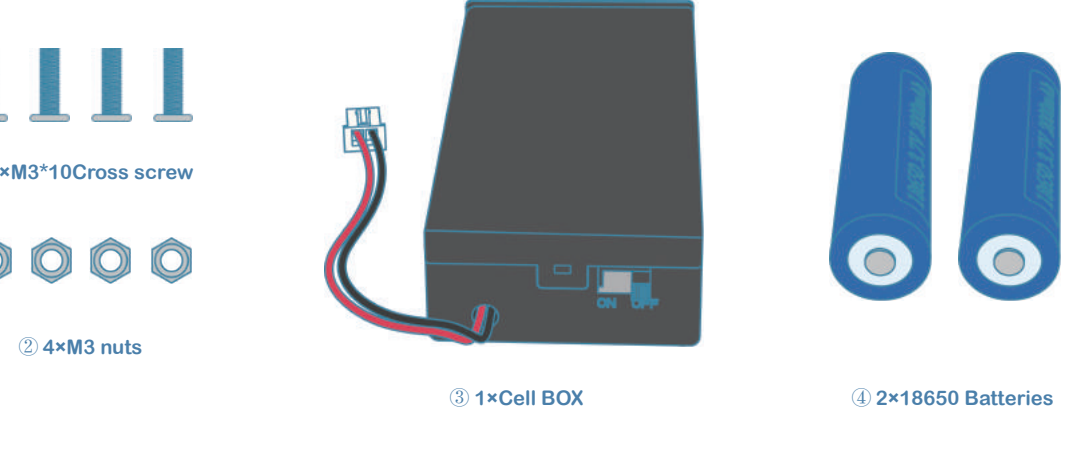
7

SMART ROBOT CAR KIT 3.0



8

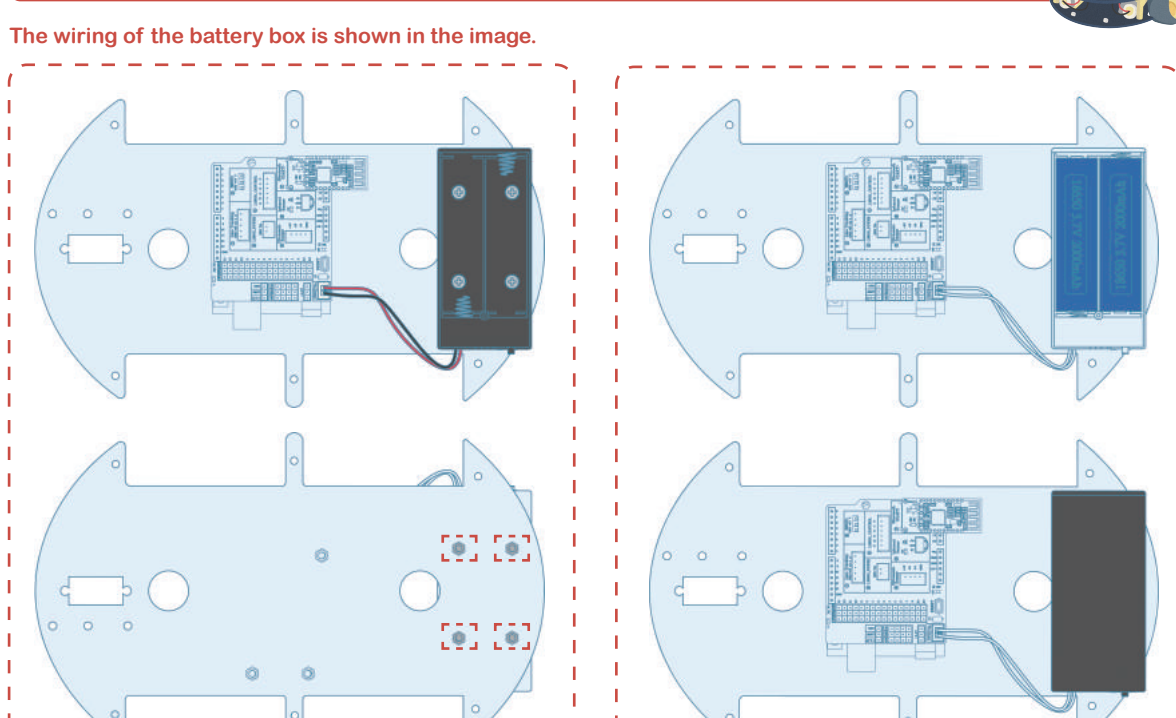
SMART ROBOT CAR KIT 3.0



Take out ① ② from the bag with label "FOR CELL BOX".

9

SMART ROBOT CAR KIT 3.0

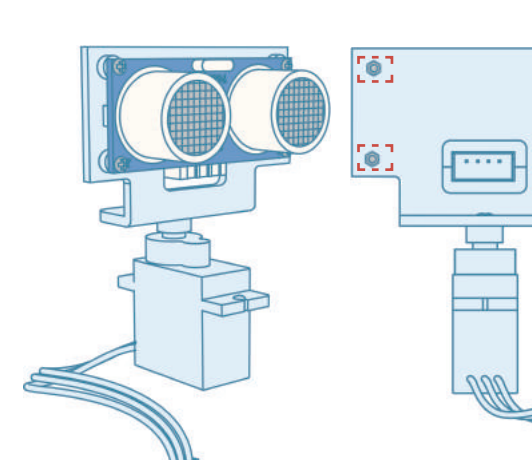
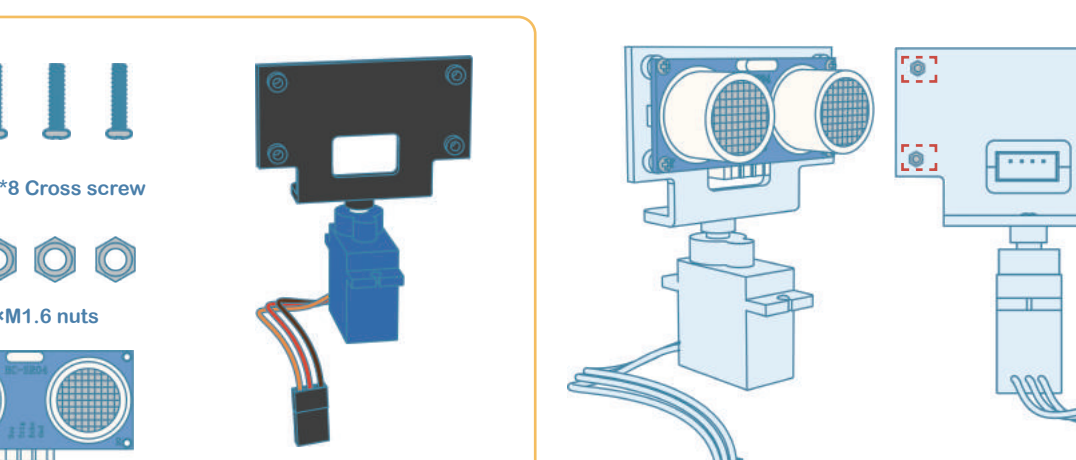


The wiring of the battery box is shown in the image.

Please fully charge the 18650 Lithium batteries before using them.

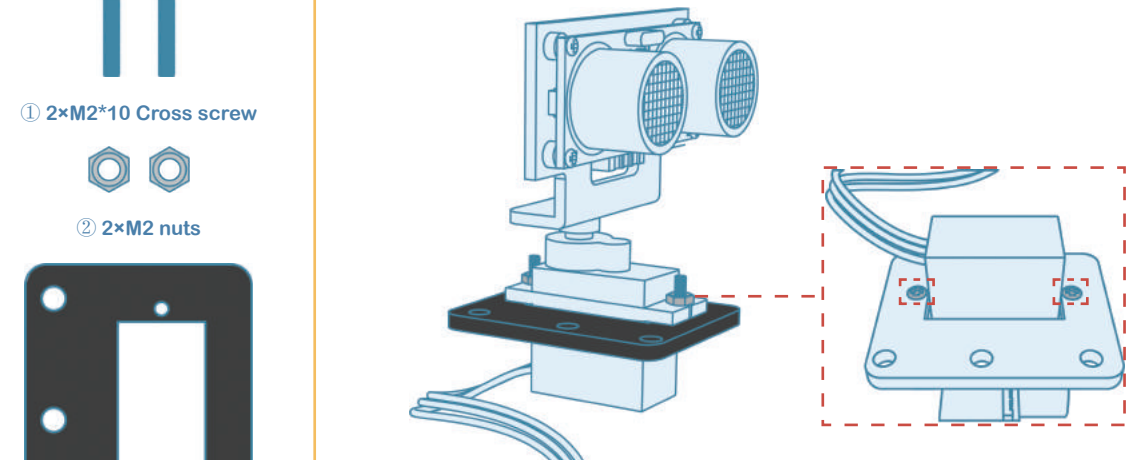
10

SMART ROBOT CAR KIT 3.0



11

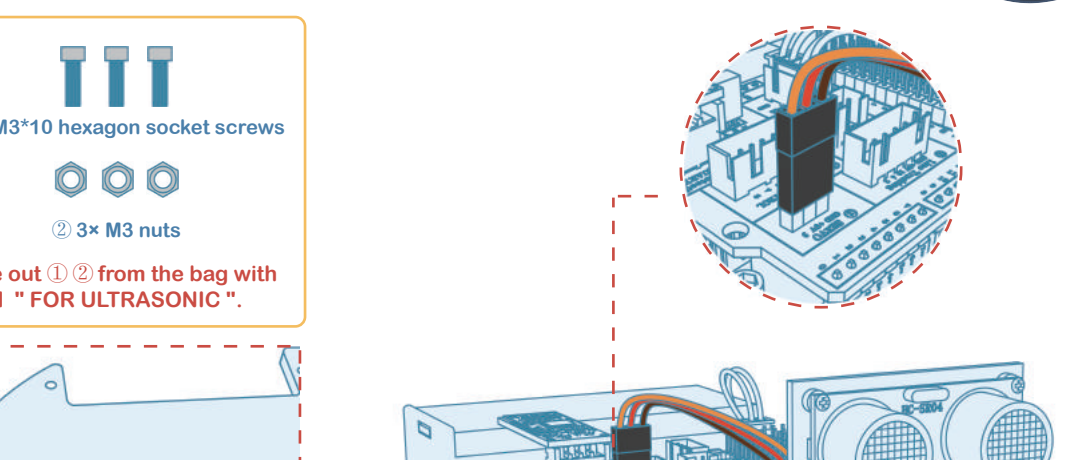
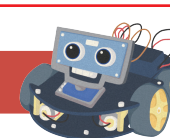
SMART ROBOT CAR KIT 3.0



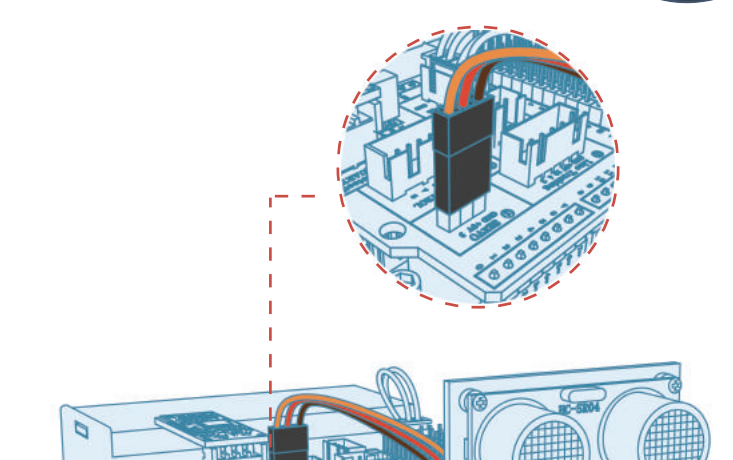
Take out ① ② from the bag with label "FOR ULTRASONIC".

12

SMART ROBOT CAR KIT 3.0



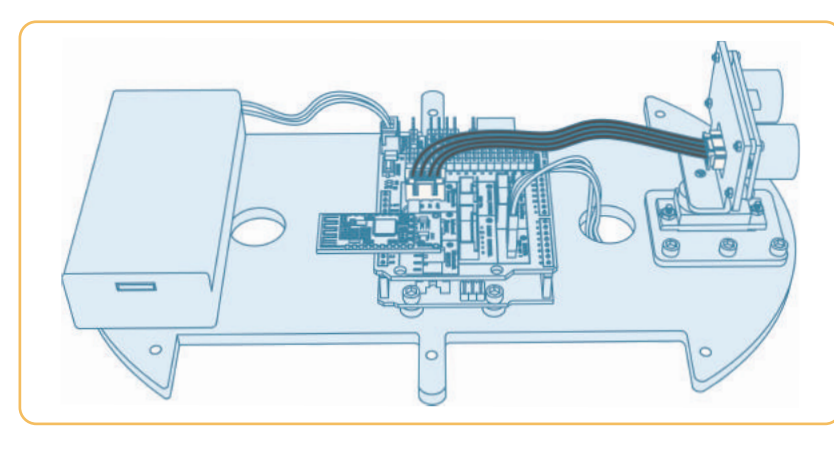
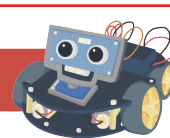
Take out ① ② from the bag with label "FOR ULTRASONIC".



The wiring of the servo is shown in the image.

13

SMART ROBOT CAR KIT 3.0



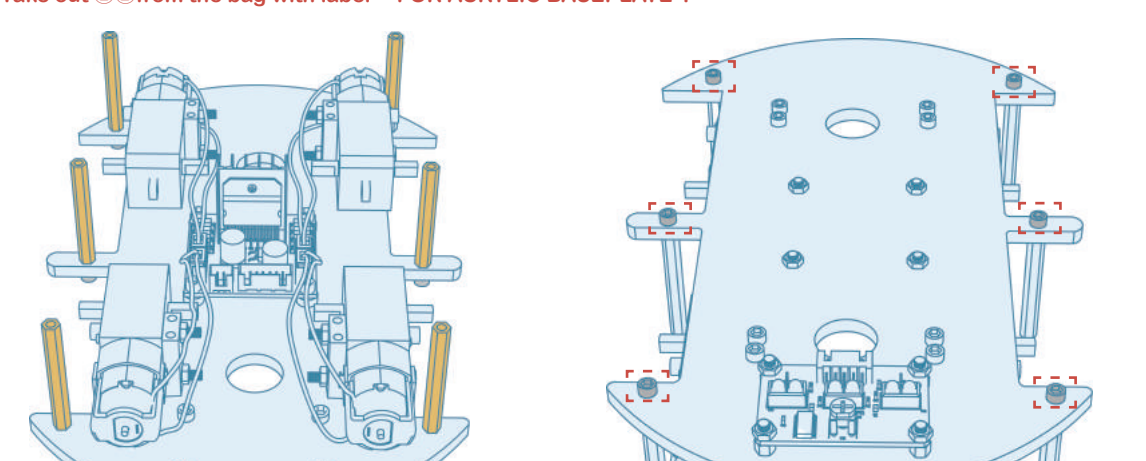
The wiring of the ultrasonic sensor is shown in the image.

14

SMART ROBOT CAR KIT 3.0

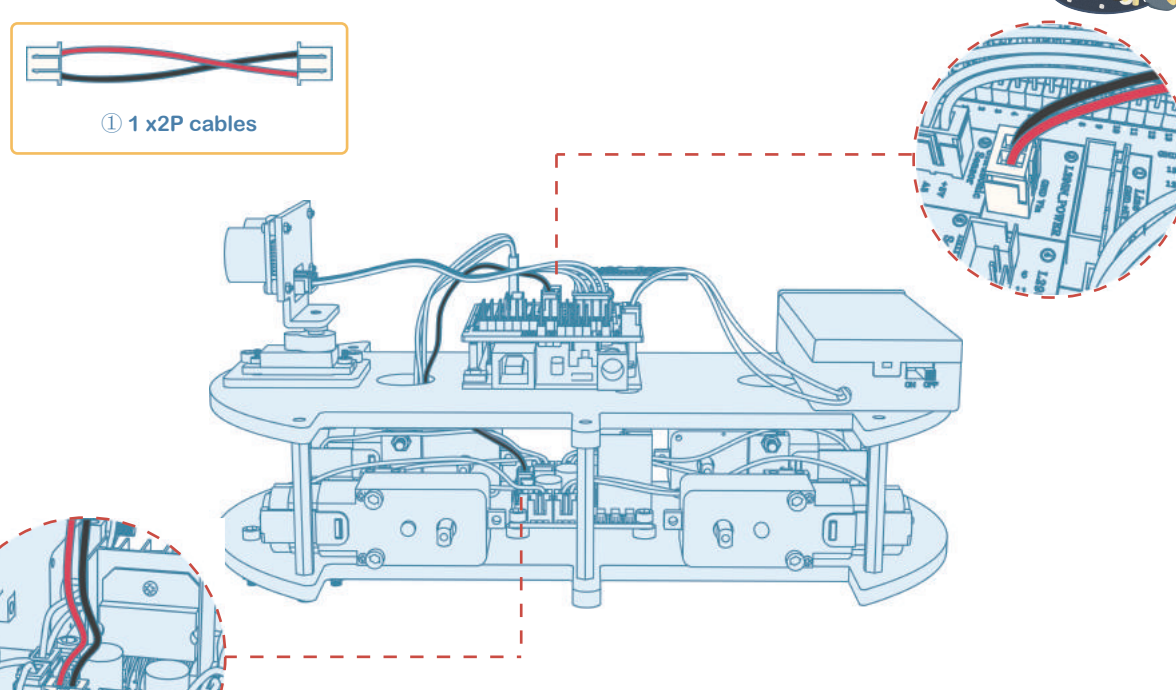


Take out ① ② from the bag with label "FOR ACRYLIC BASEPLATE".



15

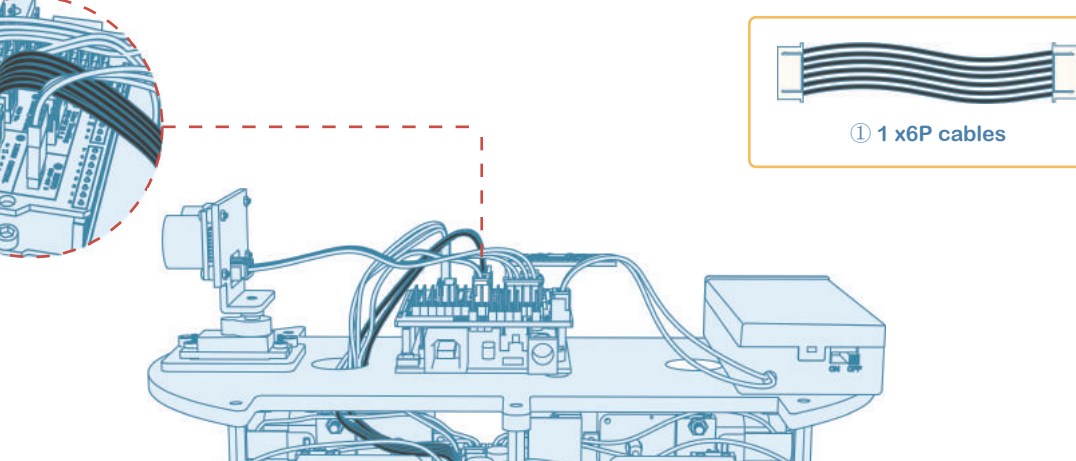
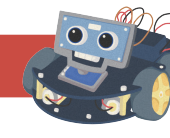
SMART ROBOT CAR KIT 3.0



Connect the L298N (refer to Page 4) to the expansion board.

16

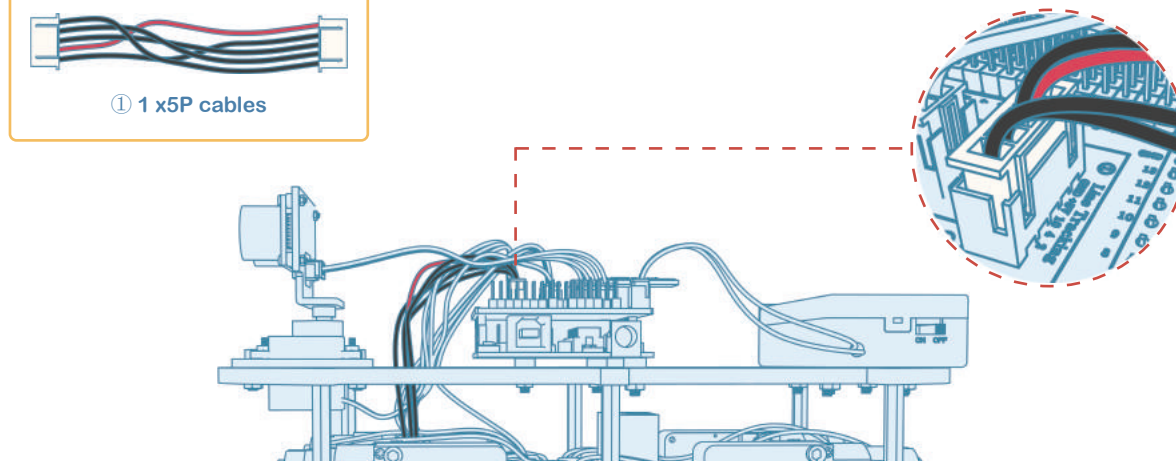
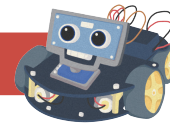
SMART ROBOT CAR KIT 3.0



Connect the L298N to the expansion board.

17

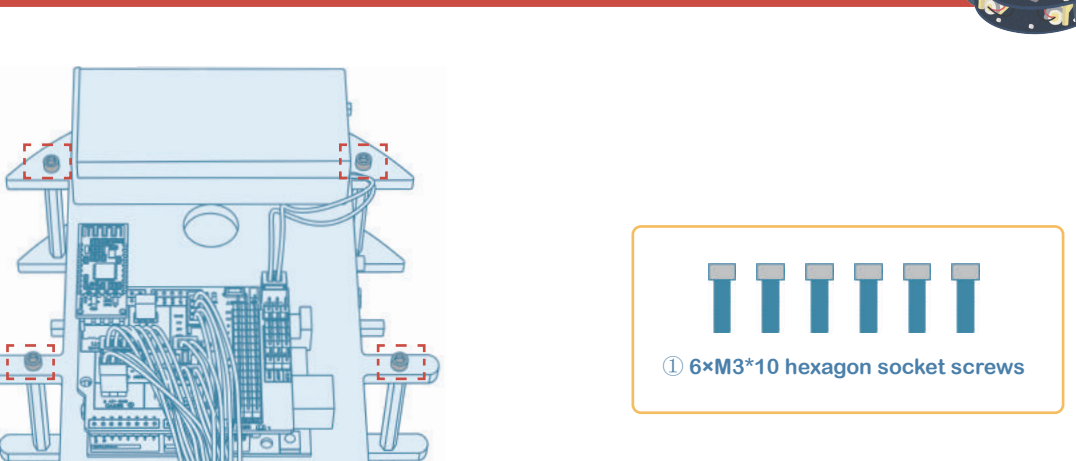
SMART ROBOT CAR KIT 3.0



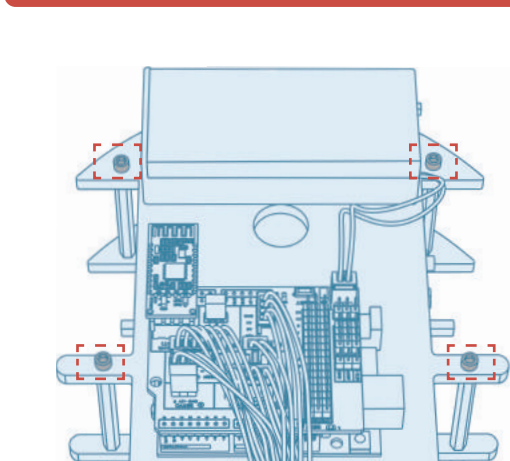
Connect the line tracking to the expansion board.

18

SMART ROBOT CAR KIT 3.0

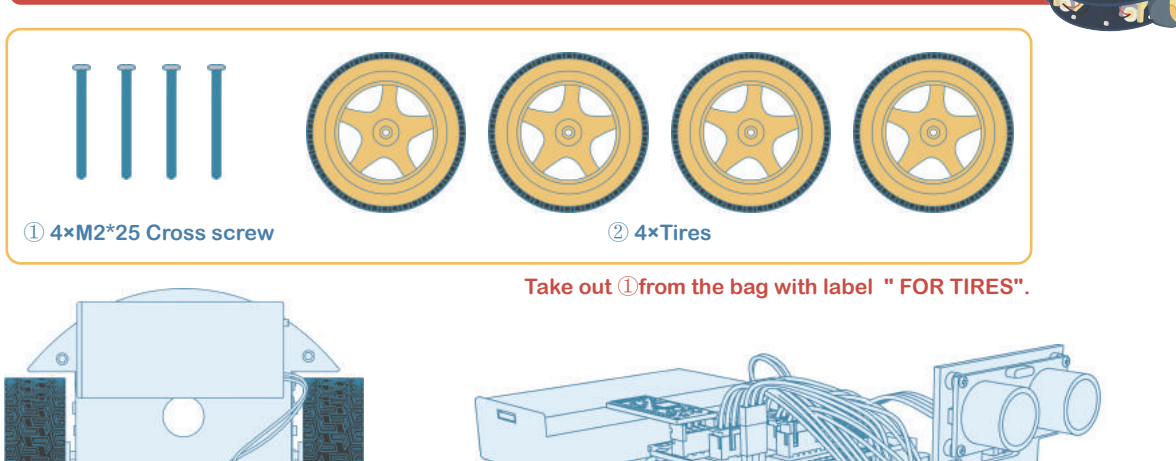


Take out ① from the bag with label "FOR ACRYLIC BASEPLATE".

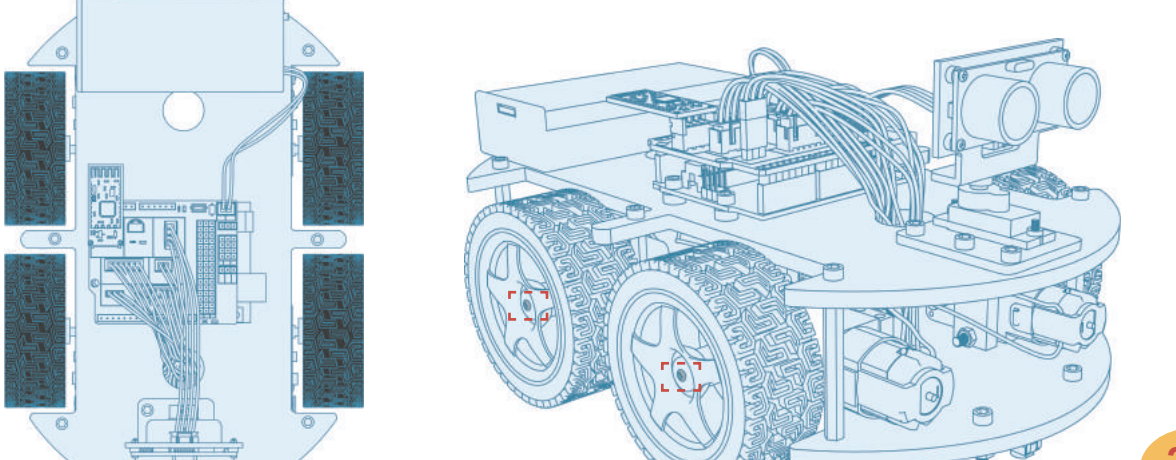


19

SMART ROBOT CAR KIT 3.0

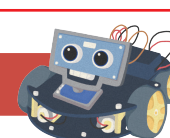


Take out ① from the bag with label "FOR TIRES".



20

SMART ROBOT CAR KIT 3.0



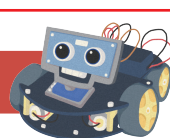
Upload program
We have already uploaded programs onto the smart robot car so you can skip this step.
If you want to modify the codes and upload it to the car again please refer to the tutorial from <http://www.elegoo.com/download/>.

Functions:
There are 4 modes of ELEGOO smart robot car, which are:

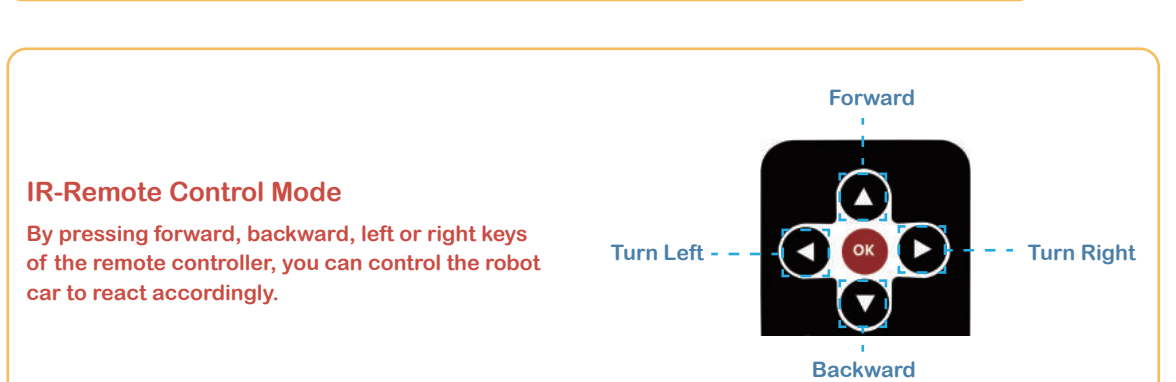
1. Bluetooth Mode
2. IR-Remote Control Mode
3. Obstacle-avoidance Mode
4. Line-tracking Mode

21

SMART ROBOT CAR KIT 3.0

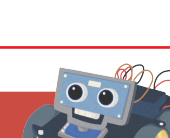


Bluetooth Mode
In this mode, you can control the robot car to move forwards, move backwards, turn left or turn right or switch to other modes. See more details at Lesson 2 in the tutorial.



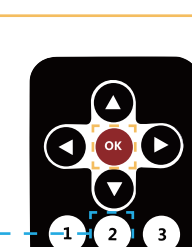
22

SMART ROBOT CAR KIT 3.0



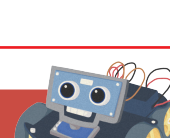
Obstacle-avoidance Mode
By pressing key#2, ELEGOO smart robot car will be in obstacle-avoidance mode and start moving forwards automatically. If there are any obstacles in front it will make a turn and continue moving forwards to a direction where there is no obstacle. To make it stop please press OK button.

Obstacle-avoidance Mode

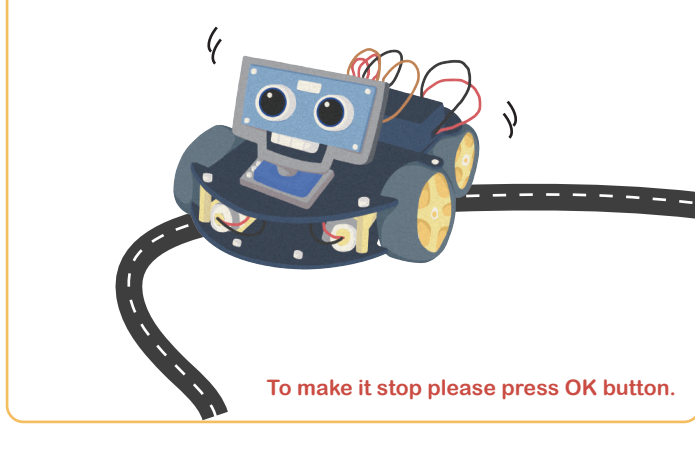


23

SMART ROBOT CAR KIT 3.0



Line-tracking Mode
Affix the tape on the ground and make a line track and then put the car on the track. By pressing key#3 the robot car will be in line-tracking mode and start moving along the track underneath.



To make it stop please press OK button.



Line-tracking Mode

24

If you have any questions during assembling or testing please feel free to contact us at service@elegoo.com or euservice@elegoo.com (European and Asian customers)

Elegoo Team
ELEGOO.COM

