

If you purchased our Arduino 4WD Smart car, you need to perform the following steps:

Step 1: After the car is assembled, you will need to download Bluetooth program we provided.

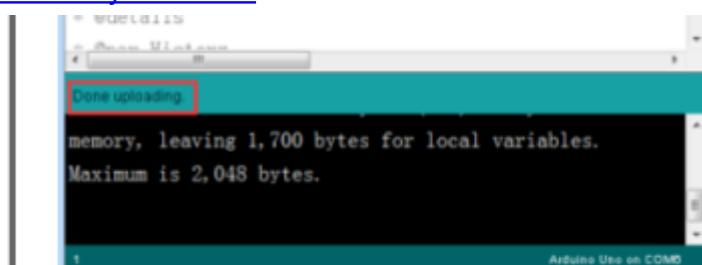
The program is located at: 【3.Arduino IDE programming】 ----

【3-14.bluetooth\_control】 , as shown below.

Link:<http://www.yahboom.net/study/4wd-uno>

- 3-3. CarRun
- 3-4. ServoControlColor
- 3-5.KeyScanStart
- 3-6. infrared\_avoid
- 3-7. infrared\_follow
- 3-8. light\_follow
- 3-9. avoid\_ultrasonic
- 3-10. color\_recognition
- 3-11. voltage\_detection
- 3-12. servo\_ultrasonic\_avoid
- 3-14. bluetooth\_control**

4.Battery and charging ▾



!!!Note:

1. The Bluetooth module needs to be properly inserted into the robot car.
2. 51/Arduino Download Switch on the expansion board
3. The ultrasonic module must be inserted.

The code of the experiment: [13.bluetooth\\_control.rar](#)

Step 2: Upload this bluetooth\_control program to your Arduino Uno board by Arduino IDE software.

For how to use Arduino IDE, please refer to course 3-0.Experimental preparation(CH340) and 3-0.Experimental preparation(Compile)

### Arduino 4WD smart car

- 1.Remote control operation
- 2.Graphical Programming
- 3.Arduino IDE Programming
- 3-0.Experimental preparation(...)
- 3-0.Experimental preparation(...)
- 3-1.Color LED

### Welcome to Arduino 4WD smart car repository

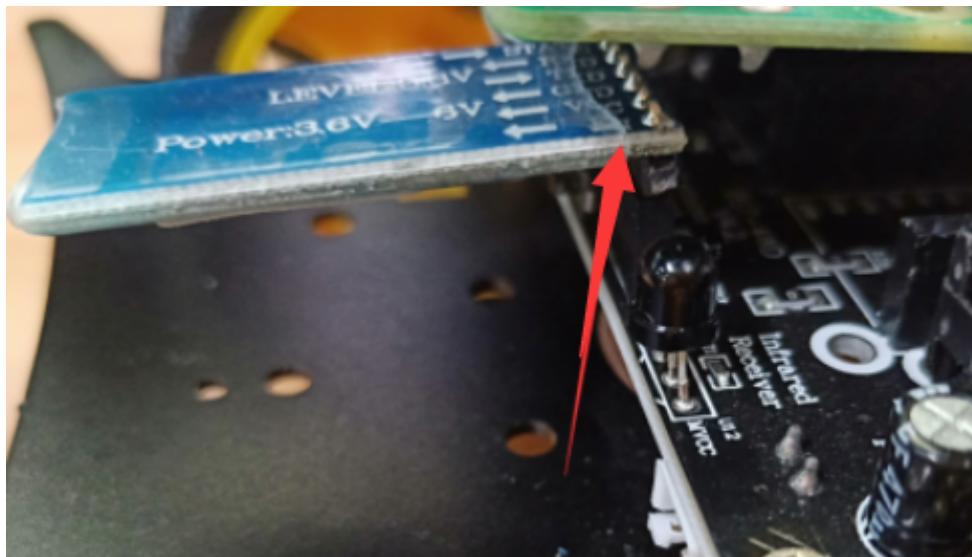
#### 3-0.Experimental preparation(CH340)

Drive installation method as shown in the following picture:

1. We need to open the installation package:Uart drive(CH340),as shown in the following picture.

**Note: During the upload process, you need to unplug the Bluetooth module.**

Step 3: After the program is successfully uploaded, you need to correctly inserted Bluetooth module. As shown below.



**Step 4:** Android users scan the following QR code by browser or search "YahboomRobot" in Play Store to download APP;  
iOS users scan the following QR code by camera or search "YahboomRobot" in App Store to download APP.

As shown in figure below.

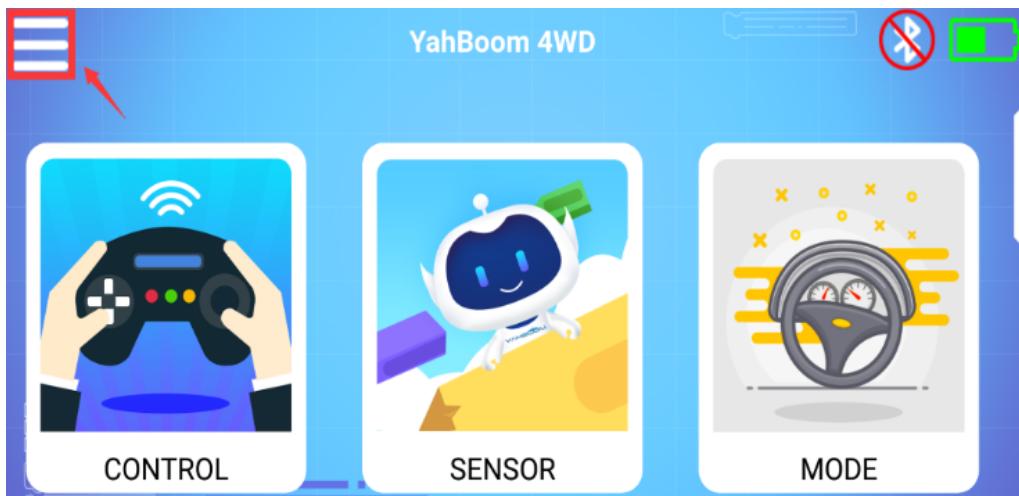
!!Note:Because the software is relatively large, the download takes a certain amount of time, please be patient.



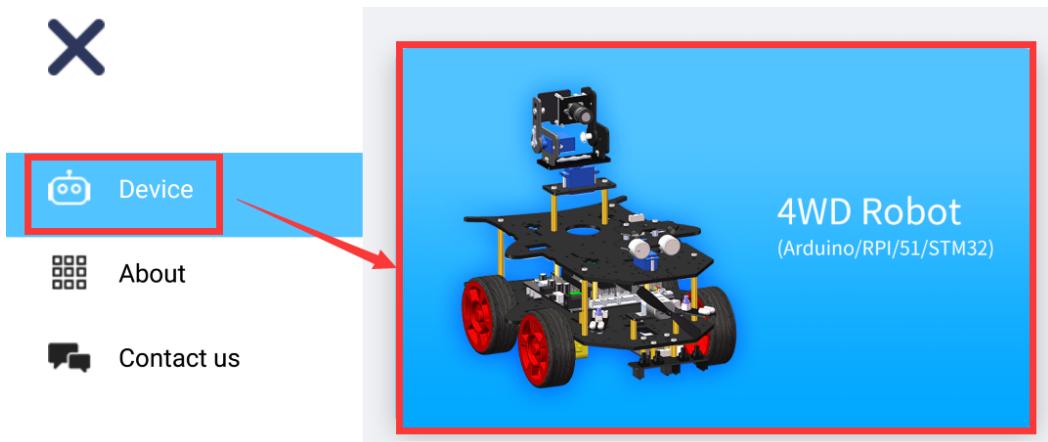
**Note:During installation, If you find any prompts on your phone (for example: location permissions of your phone). You must select "Yes".**

**Step 5:** After the APP is installed, open the Bluetooth of the your phone, open the power switch of the Tank, the red indicator of the Bluetooth module keeps flashing.

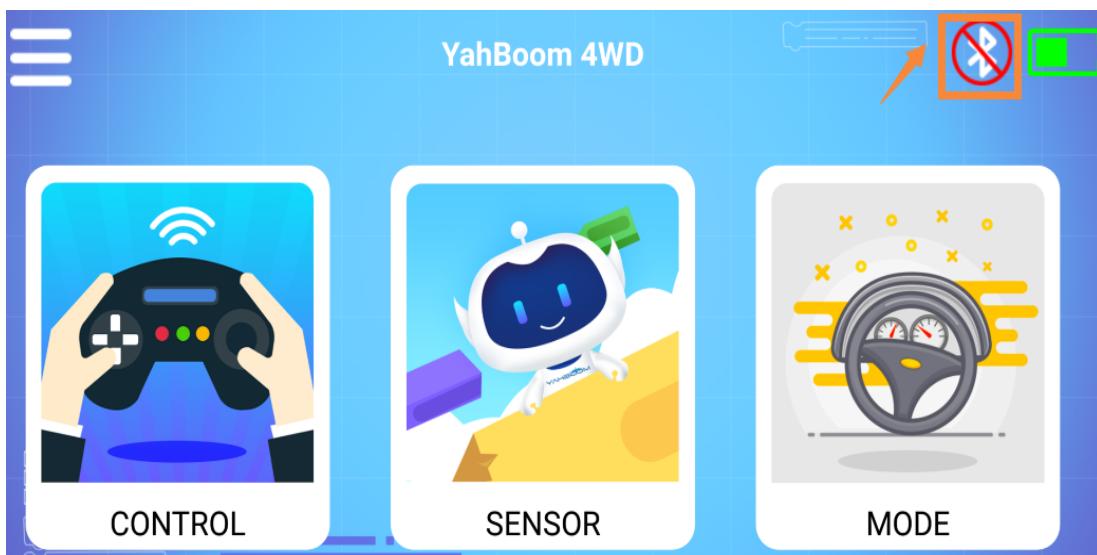
**Step 6:** Then, open the YahboomRobot APK. You will see the APK interface and we need to click on the top left corner of the APK to select the device as shown below.



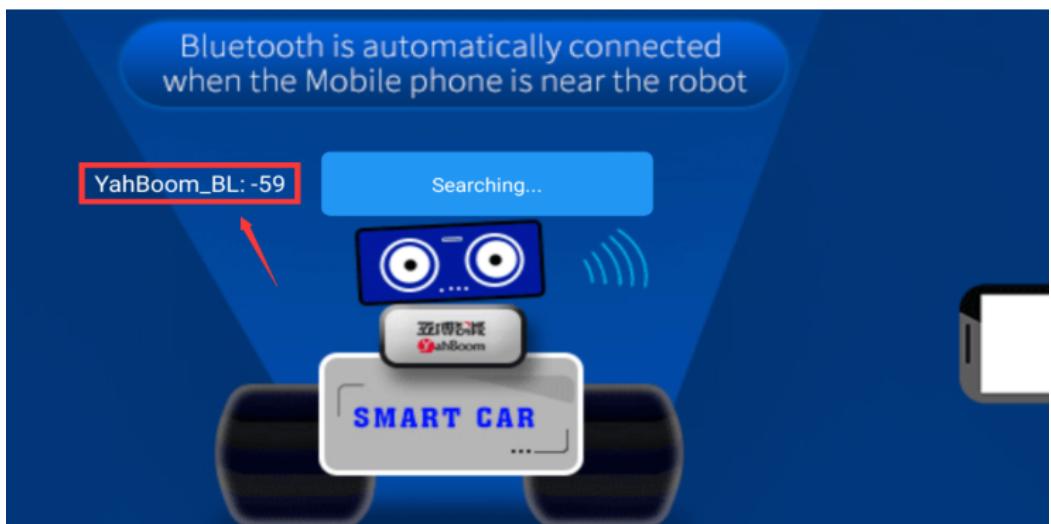
Step 7: Select 【G1 Tank】 to enter the remote control interface, as shown below:



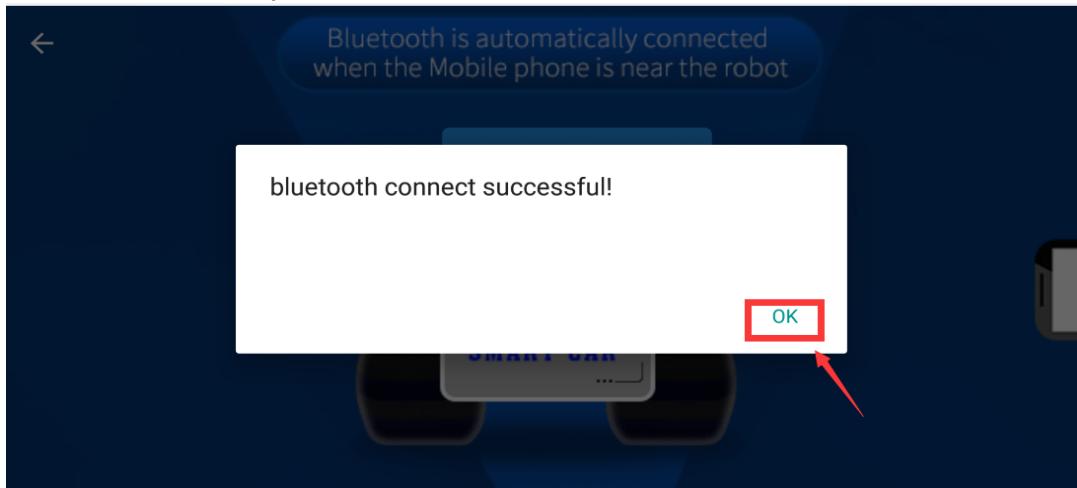
Step 8: You will see this interface as shown below. Click on the top right corner of the APK to connect bluetooth.



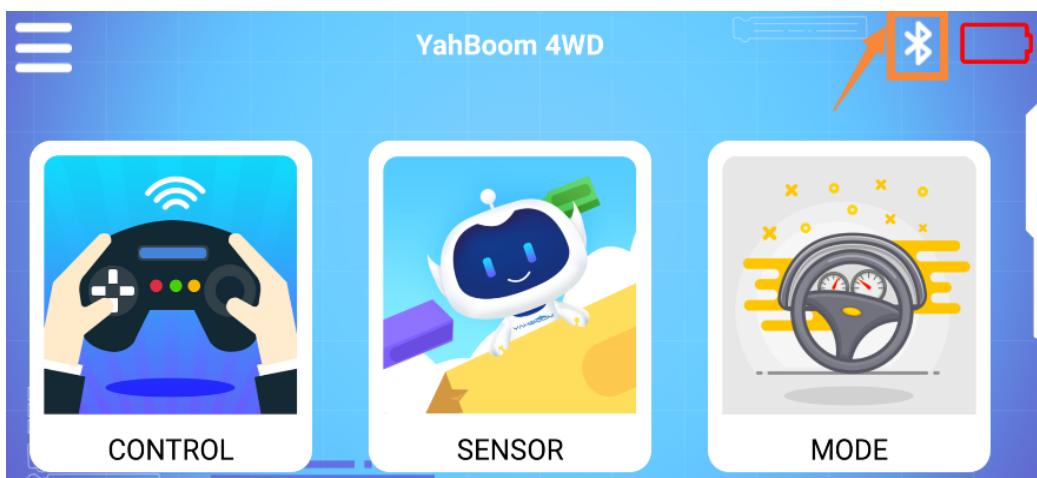
Step 9: You can see bluetooth signal. Wait patiently, the phone will automatically connect to the Bluetooth near the car.



Step 10: Bluetooth can be successfully connected, and the APP will enter the interface as shown below. At the same time, the red indicator of the Bluetooth module will be keep on. You need to click "OK".



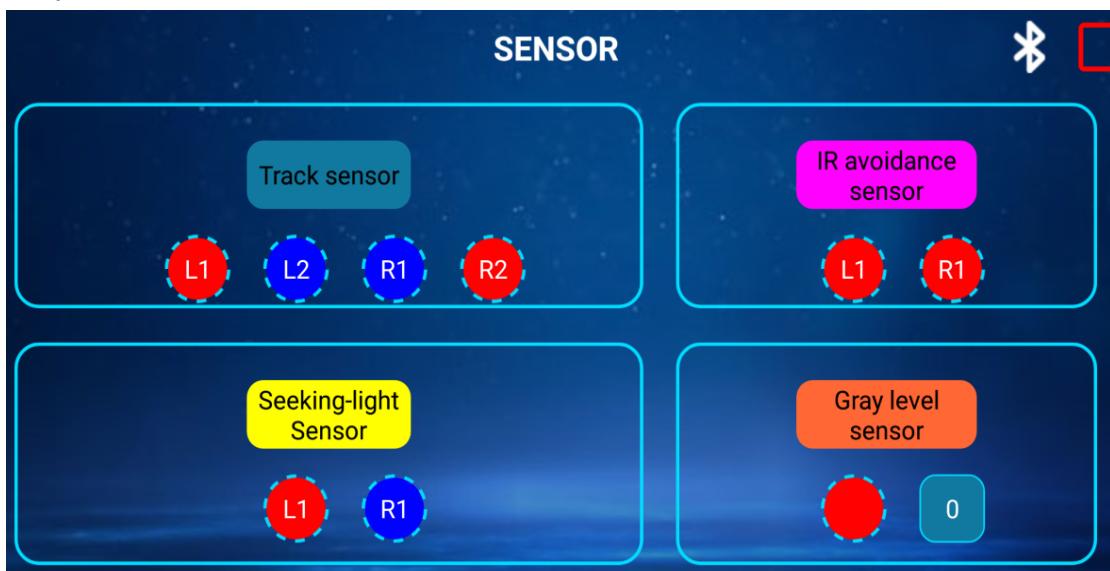
You will enter the interface as shown below.



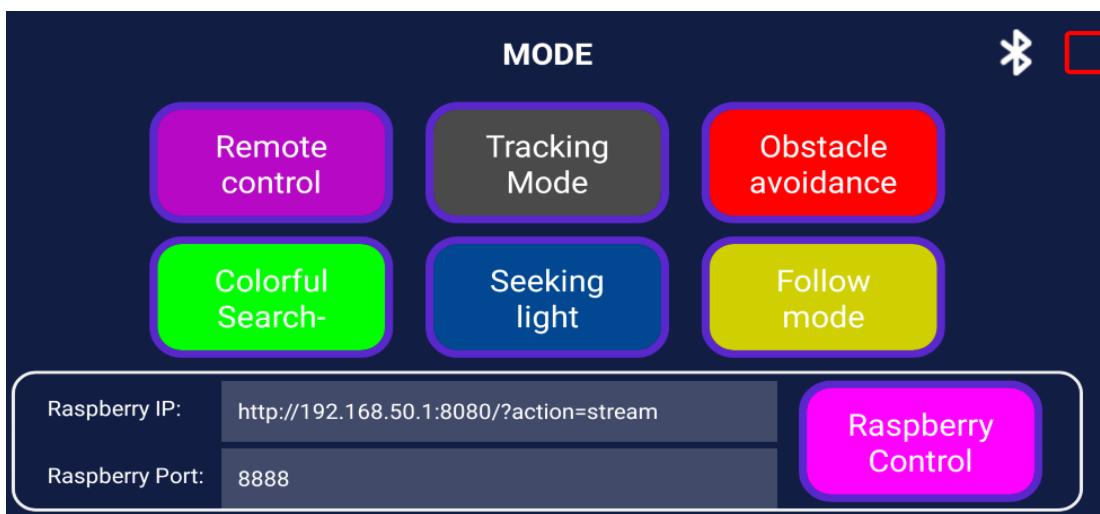
Step 10: Click "CONTROL" to enter interface as shown below. Wait for the ultrasonic data to change, it prove that Bluetooth starts to transmit data normally. You can start to control the car.



Step 12: Click “SENSOR” to enter interface as shown below.



Step 13: Click “MODE” to enter interface as shown below.



You need to pay attention to the points, otherwise the Bluetooth remote control function will have problems.

**Note:**

(1)The robot Tank needs to have enough voltage to work properly.

Please refer to the following figure for the charging method and battery usage:

### Raspberry pi 4WD

1.Remote control operation

▼

2.Development environment

▼

3.Experimental tutorial

4.Battery and charging

4.1 Battery of 4WD robot car u...

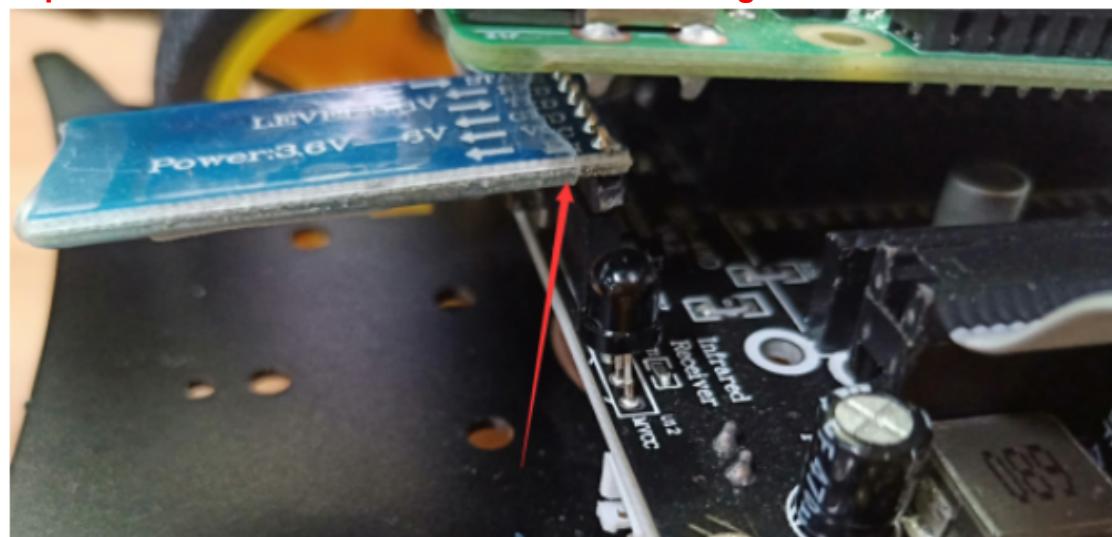
### Welcome to Raspberry pi 4WD repos

#### 4.1 Battery of 4WD robot car use precautions

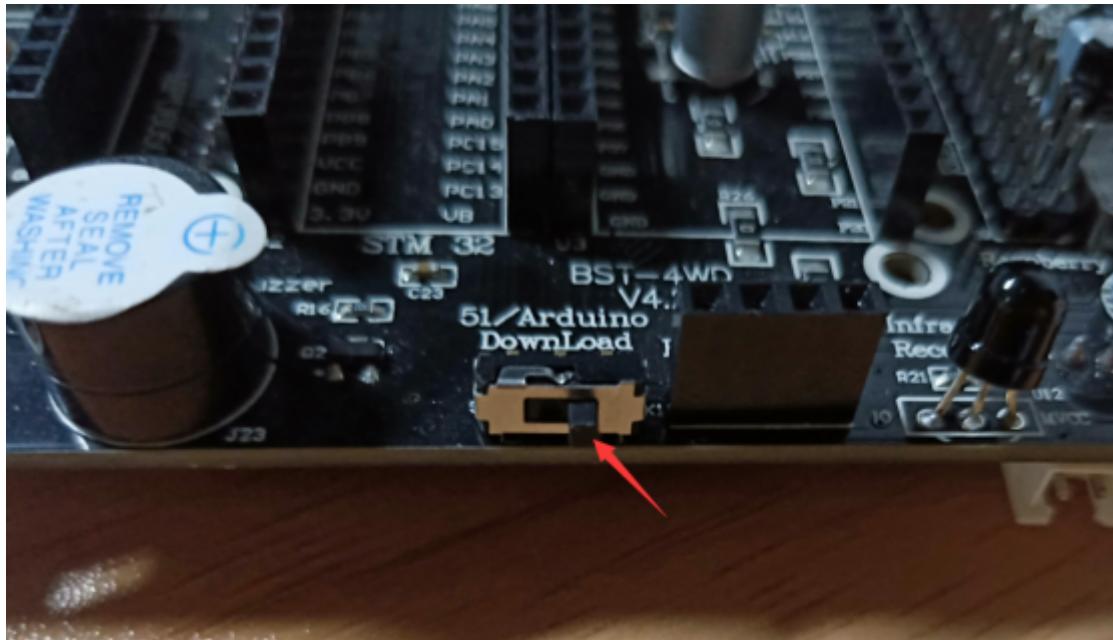
**Battery of 4WD robot car use precautions:**

1. Please use the charger we provide to charge the car.
2. The car cannot be used while charging.
3. The voltage needs to be charged in time at around 9V. When the ch...

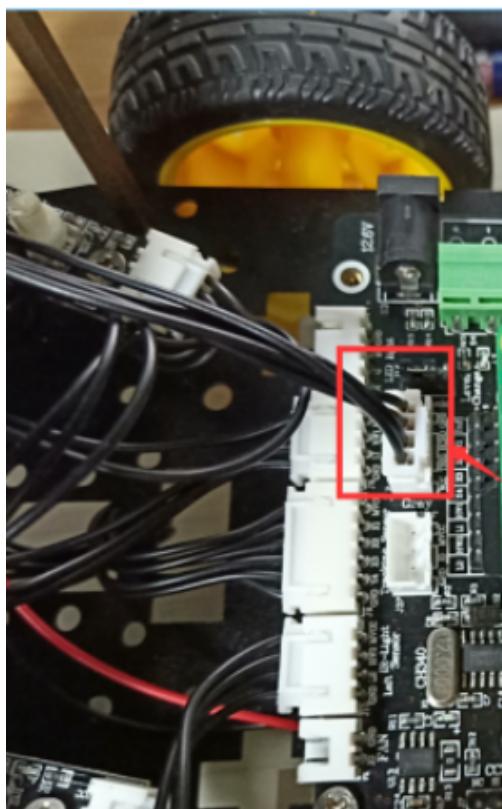
(2)The Bluetooth module needs to be properly inserted into the expansion board of the Tank. As shown in the figure below.



(3)51/Arduino Download Switch on the expansion board must be set to [OFF]. As shown in the figure below.



(4) The ultrasonic module must be inserted. As shown in the figure below.



Please read our manual for introductions of Bluetooth remote control interface.