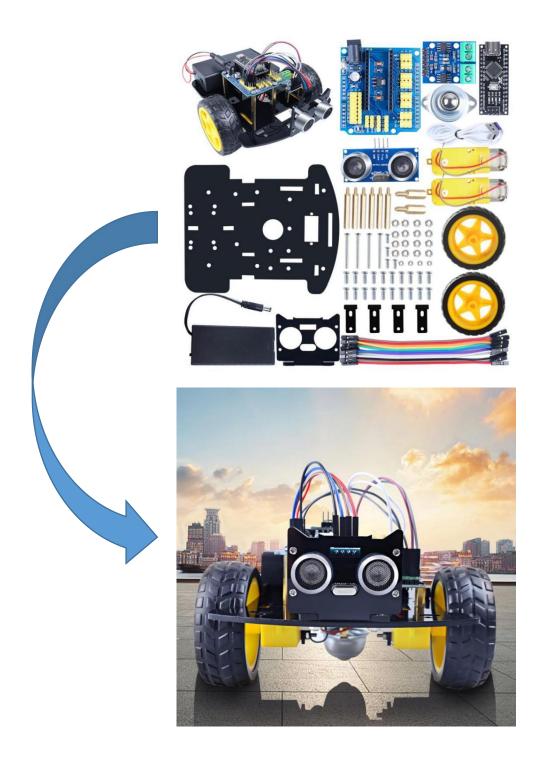




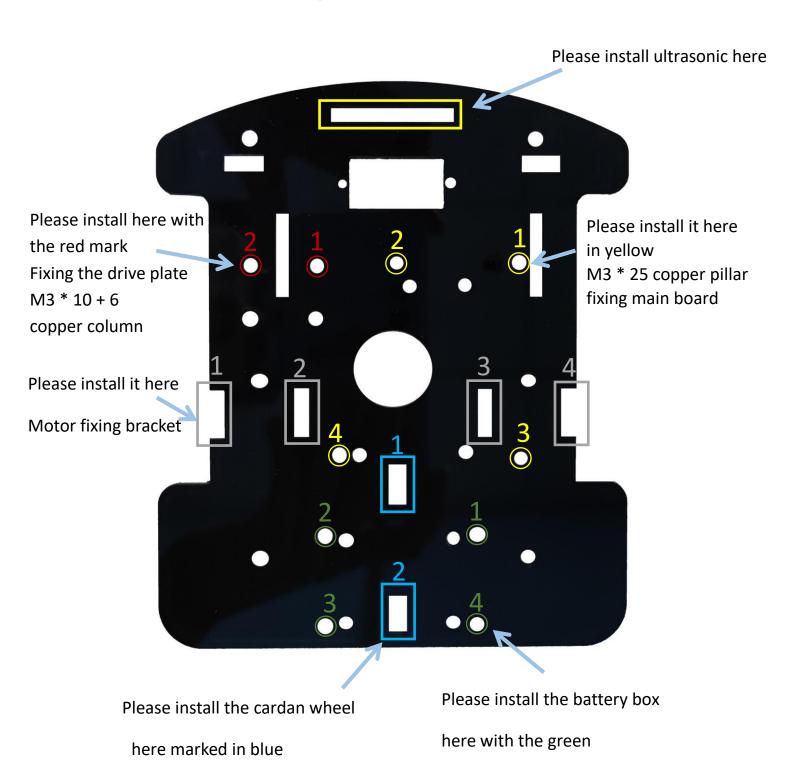
Thank you for purchasing Zhi Yi Technology product "mini DIY obstacle avoidance car". This tutorial will teach you how to assemble your obstacle avoidance car.





The first part: the construction of the car

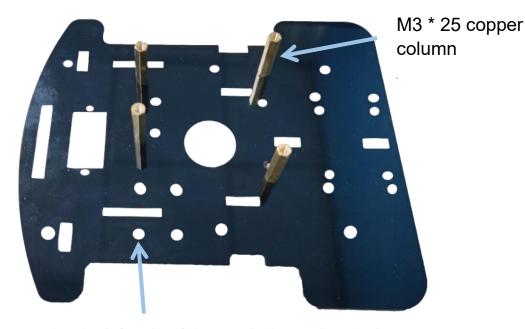
Remove the protective film before use





Acrylic installation of copper column

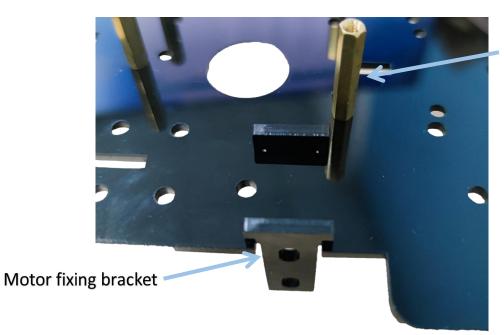
Fix m3 * 25 copper column on acrylic base plate with M3 * 8 flat head screw, pay attention to direction



On the left side of the acrylic base plate is the positioning hole for fixing the drive module

Install the motor retaining bracket

Put the motor bracket into the hole corresponding to the acrylic base plate, and pay attention to the direction

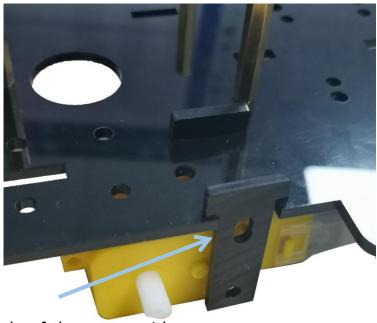


M3 * 25 copper column



fix a motor

Match the screw hole of the motor with the hole of the motor bracket

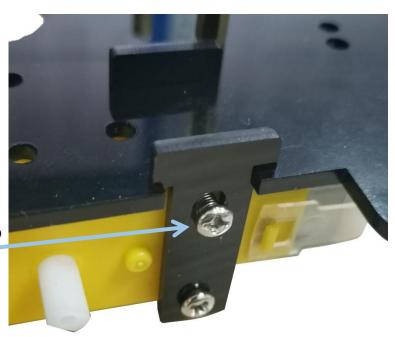


Match the screw hole of the motor with

the motor bracket

fix a motor

Match the screw hole of the motor with the hole of the motor bracket



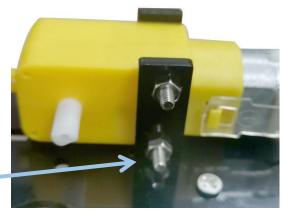
Use m3 * 30 screw to

insert into the hole



fix a motor

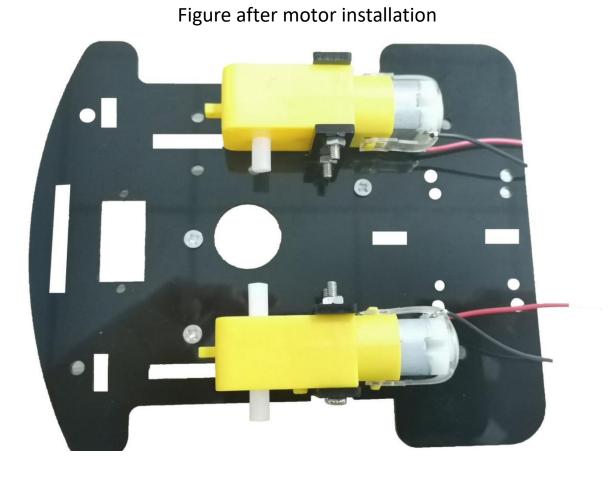
Lock motor with M3 nut



Lock the inserted m3 * 30

screw with M3 nut

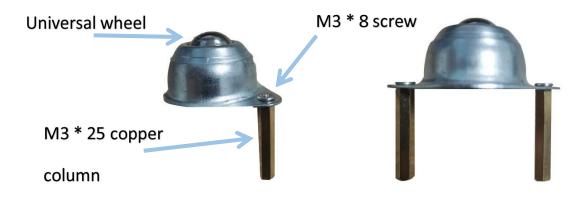
fix a motor





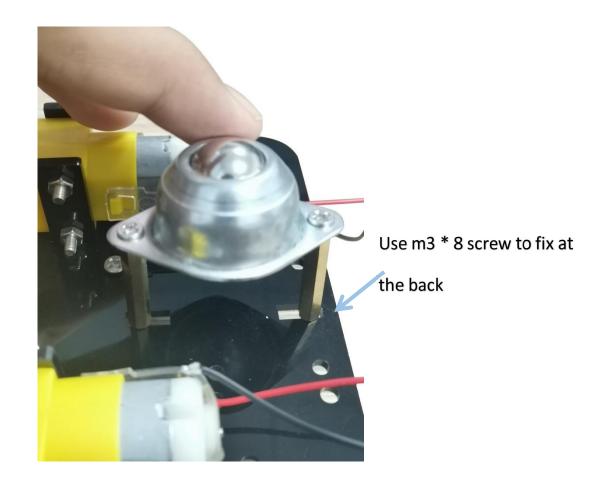
Install Cardan wheel

Use m3 * 8 screw to fix m3 * 25 copper column on Cardan wheel



Install Cardan wheel

Use m3 * 8 screws to fix the universal wheel on the bottom plate of the car

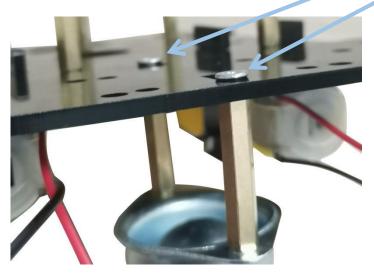




Install Cardan wheel

Installation complete diagram

Use m3 * 8 screw



Install the wheel

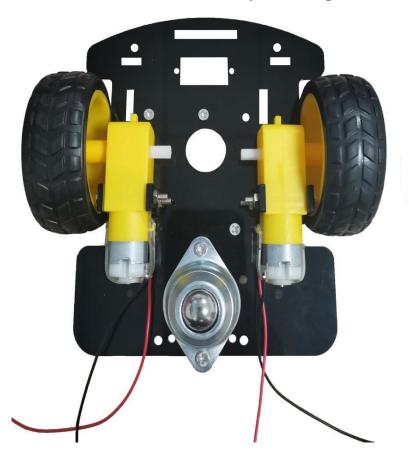
Install the trolley wheel on the TT motor shaft





Install the wheel

Installation complete diagram



Install the ultrasonic fixing bracket

Figure when ultrasonic bracket and ultrasonic module are not spliced





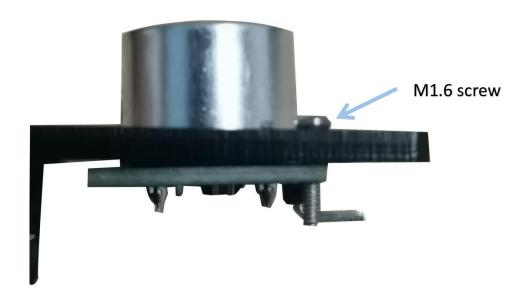
Install the ultrasonic fixing bracket

Install the ultrasonic module into the bracket as shown in the figure below



Install the ultrasonic fixing bracket

Fix the ultrasonic module and bracket with m1.6 screws and nuts





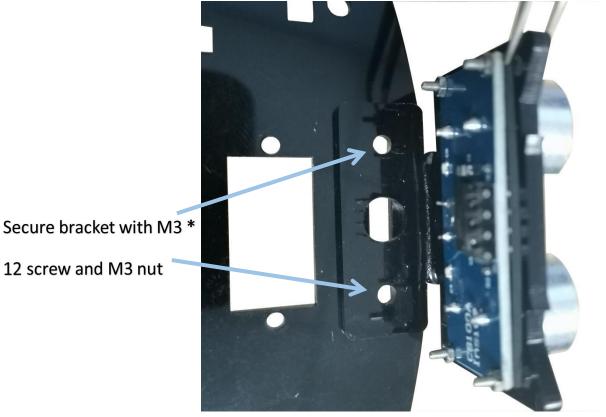
Install the ultrasonic fixing bracket

Figure of fixation completion



Install the ultrasonic fixing bracket

Fix the ultrasonic module on the bottom plate of the car





Install the ultrasonic fixing bracket

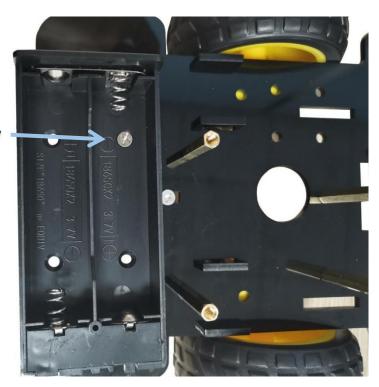
Installation complete diagram



Use m3 * 12 screw

Install the battery box

Use m3 * 8 screws and nuts to fix the battery box on the car bottom plate

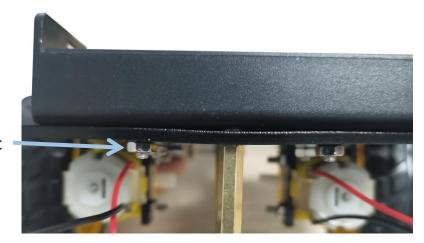


Use m3 * 8 screw

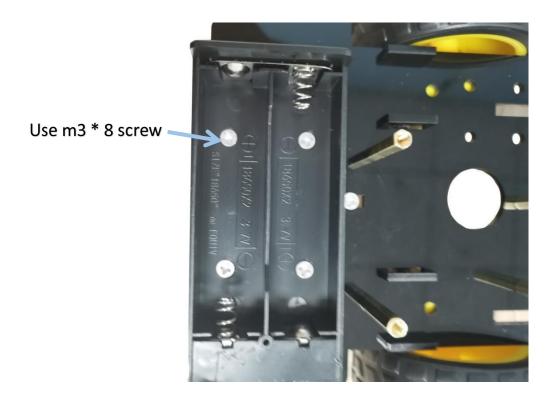


Install the battery box

Installation complete diagram



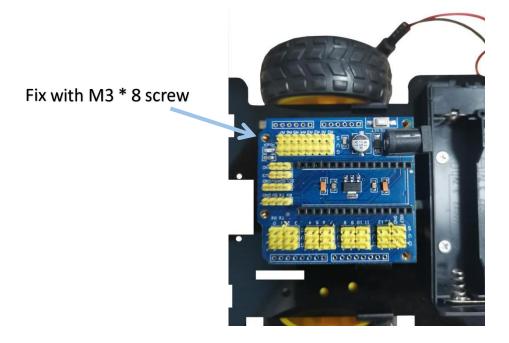
Use m3 nut





Installing the expansion board

Fix the expansion board on the M3 * 25 copper column with M3 * 8 screws



Installing the expansion board

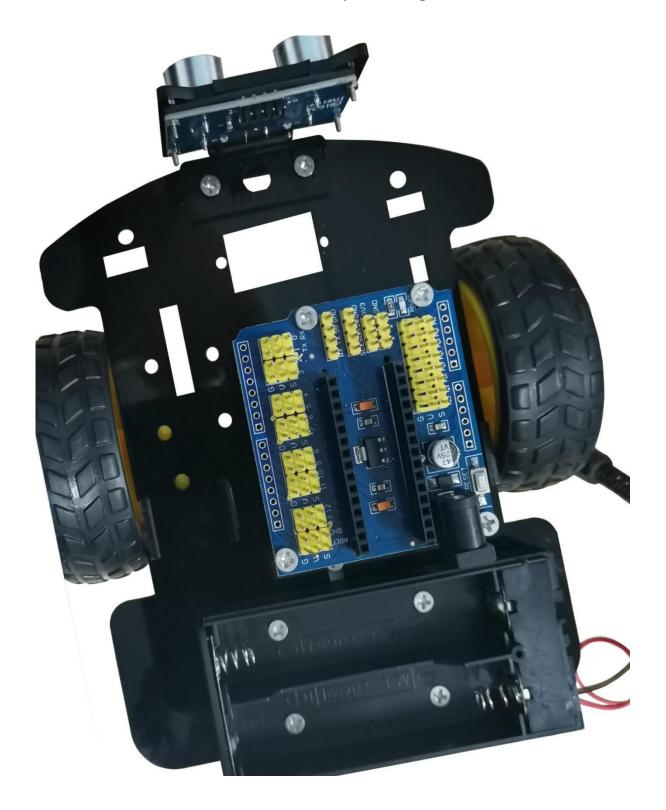
Fix the expansion board on the M3 * 25 copper column with M3 * 8 screws





Installing the expansion board

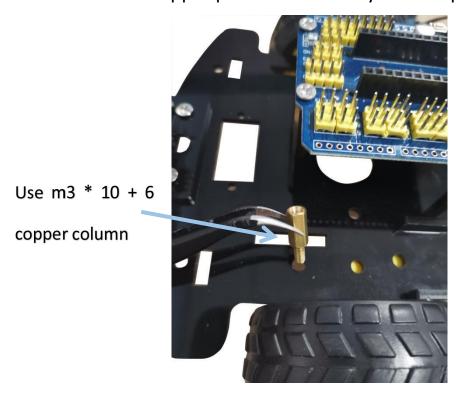
Installation complete diagram





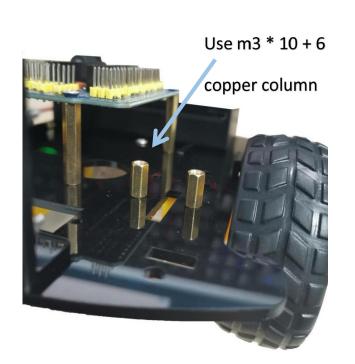
Install the motor drive board

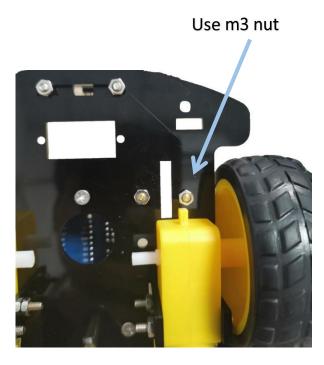
Fix m3 * 10 + 6 copper pillar to the trolley bottom plate with M3 nut



Install the motor drive board

Installation drawing of copper column

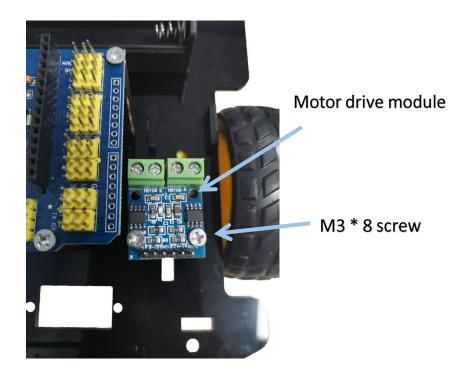






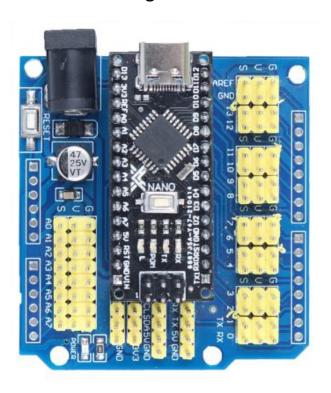
Install the motor drive board

Fix the motor drive module on the M3 * 10 + 6 copper column with M3 * 8 screws



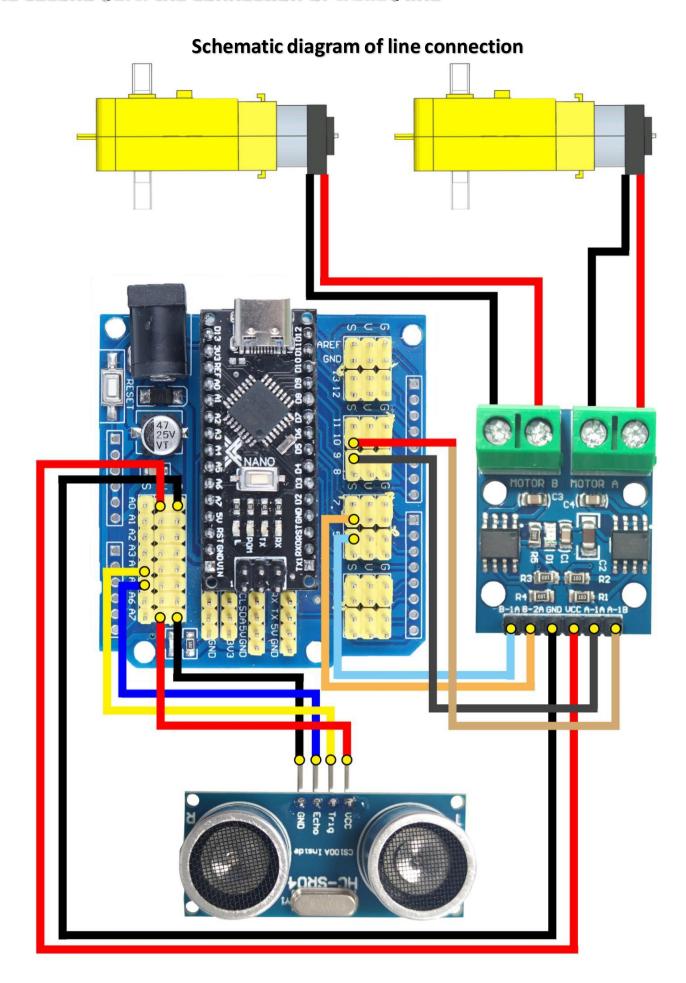
Install the motherboard

Will ZY_ Insert the nano motherboard into the expansion board as shown in the figure



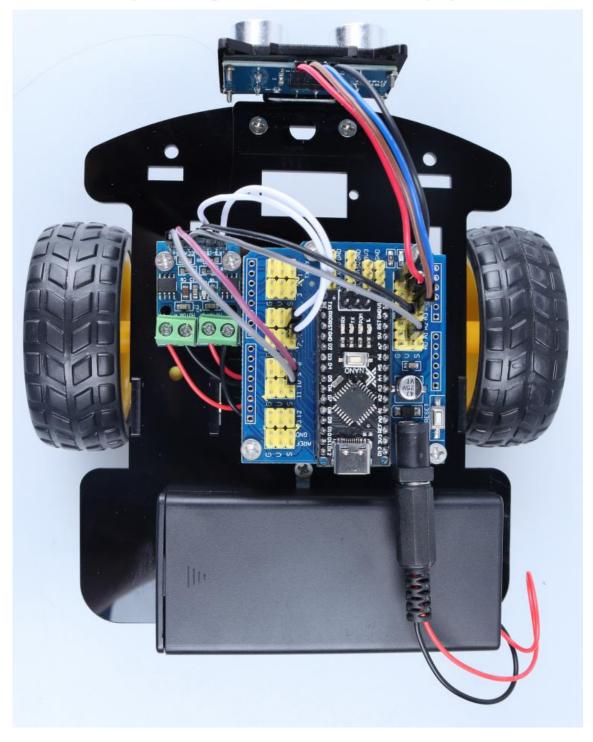


The second part: the connection of trolley line



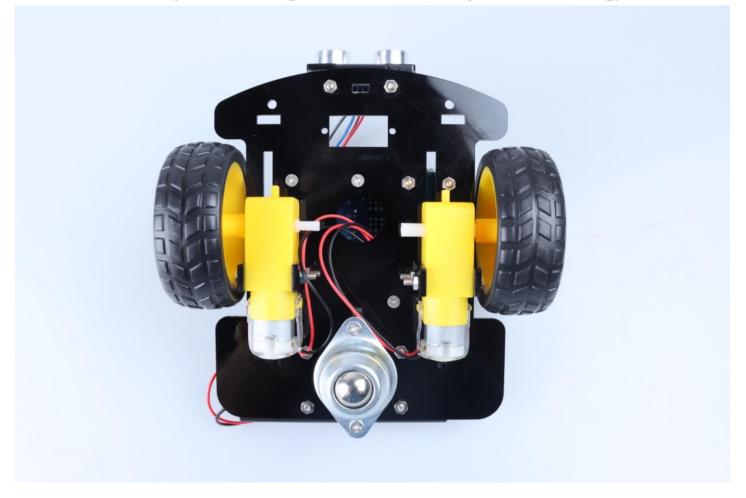


Physical diagram of line connection (top view)



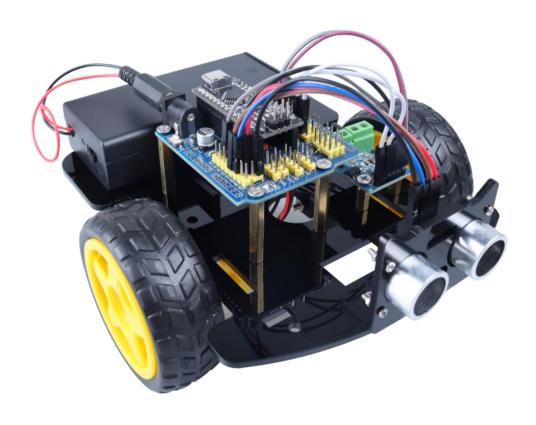


Physical drawing of line connection (bottom drawing)





The third part: refer to the drawing after the car is assembled









thank you!