Esp32 cam Car Kit Assembly Guide

ZYC0024

Product list

M3*30 round head screw*8pcs

M3*12 flat head screw*8pcs

M3*10 flat head screw*16pcs

M3*8 flat head screw*10pcs

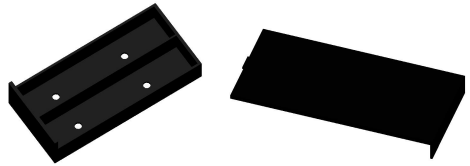
M2*10 round head screw*4pcs

M3 Nut*24pcs

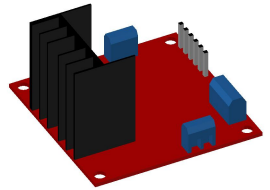
M2 Nut*4pcs

M3*15 copper column*10pcs

TYPE - C cable*1pc



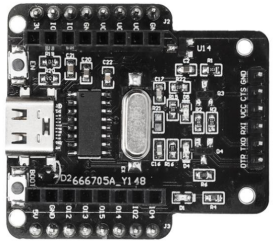
battery pack*1pc



Motor drive board*1pc

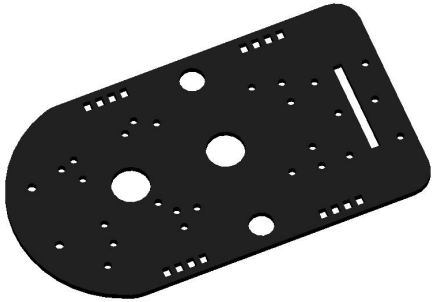
Product list

ESP32 Cam Wifi bluetooth module development board, with OV2640 camera module*1pc

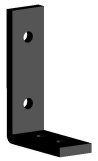


ESP32 CAM expansion board*1pc

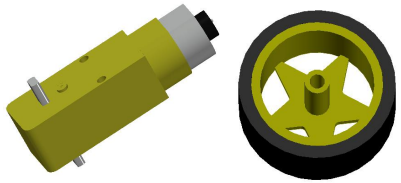
mainboard enclosure*1pc



Acrylic black base plate*1pc



motor bracket*4pcs



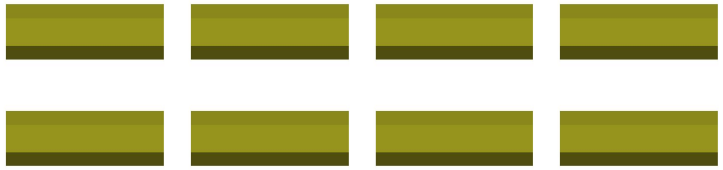
motor (with wheel welding wire)*4pcs

Male to female Dupont line 2P 20CM*1pc

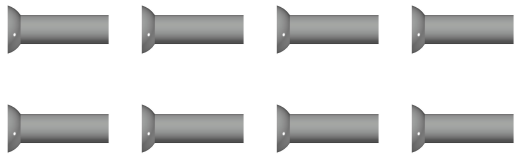
Male to male Dupont line 10P 10CM*1pc

Install copper column on the bottom plate

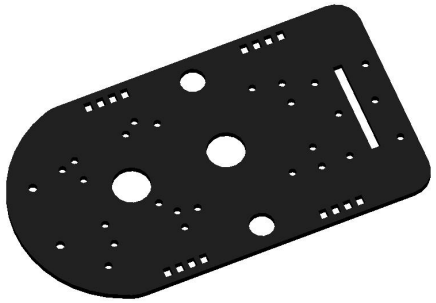
① M3*15 copper column*8pcs

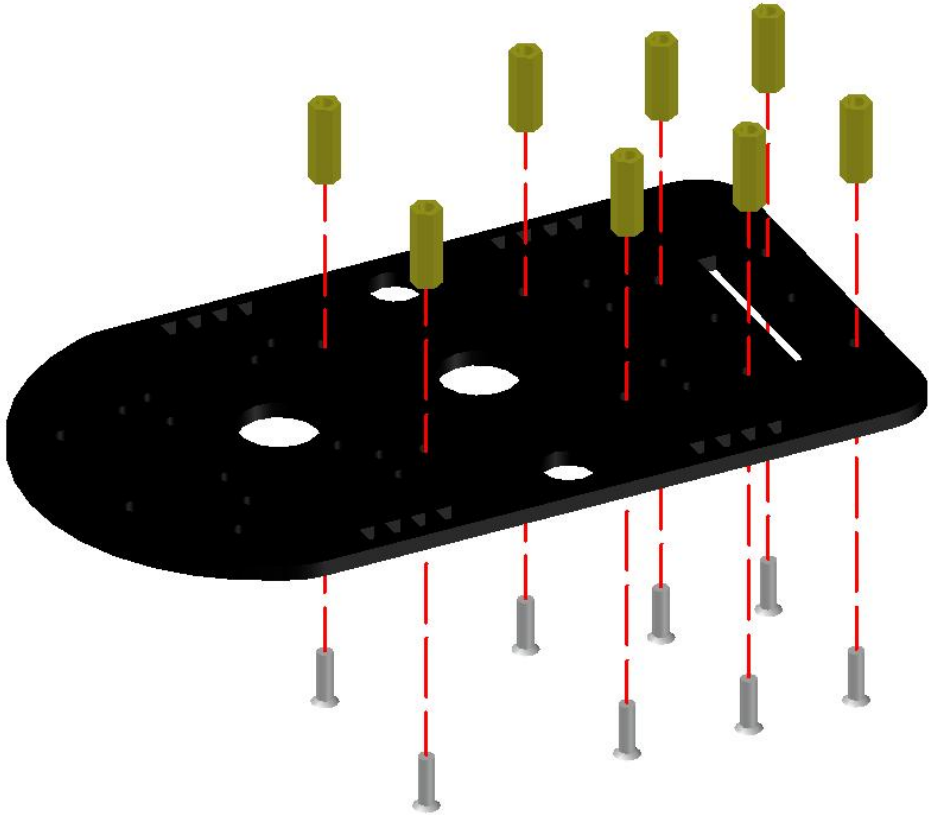


② M3*10 flat head screw*8pcs



③ Acrylic black base plate*1pc

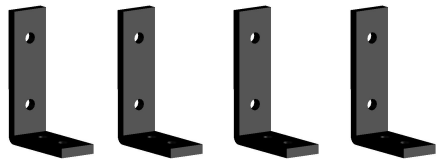




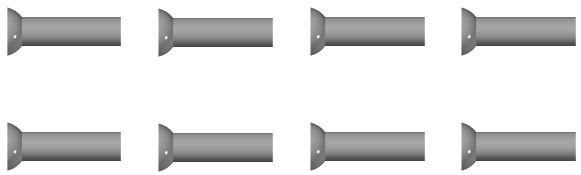
First pass the screw through the corresponding hole, then screw on the copper column, and finally use a screwdriver for reinforcement.

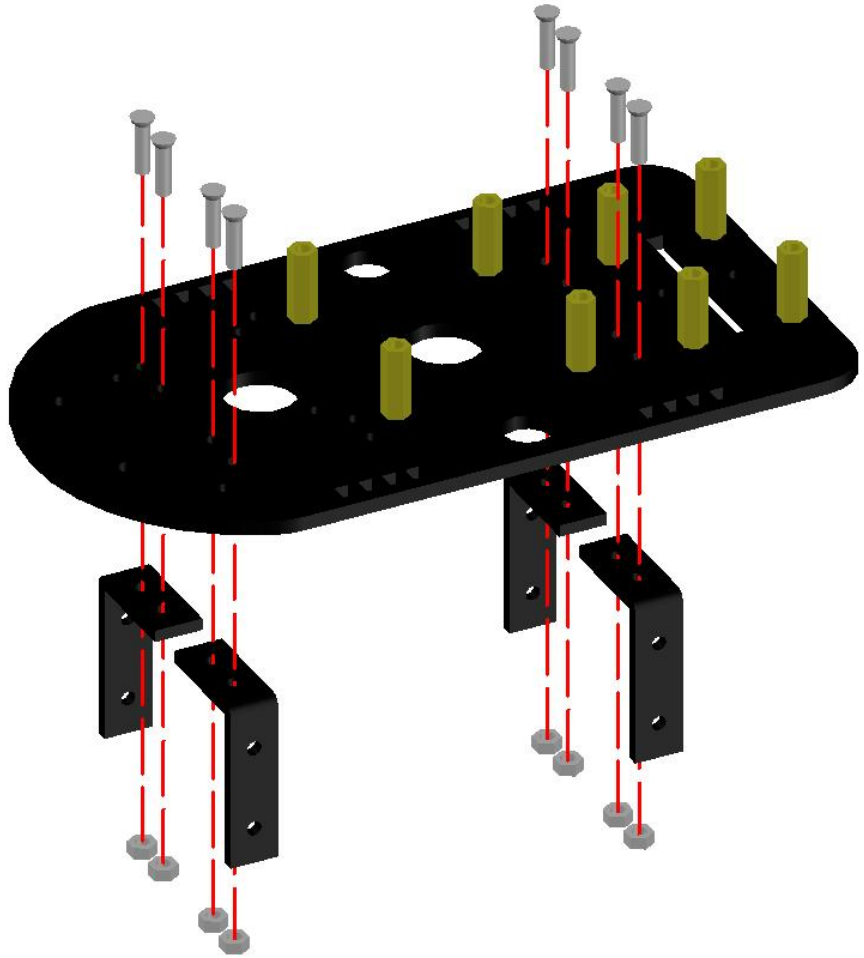
Install motor bracket

① motor bracket*4pcs



② M3*12 flat head screw*8pcs

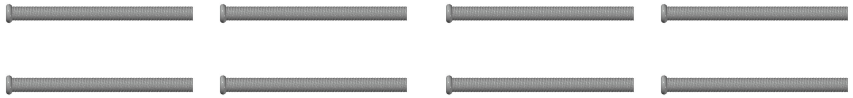




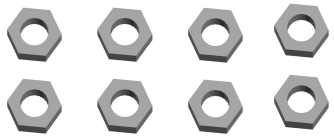
First, pass the screw to the good hole from the top down, and then put the screw to the good hole of the motor support, lock the nut, and finally reinforce with a screwdriver.

Fixed motor

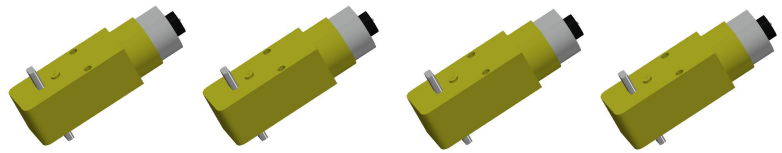
① M3*30 round head screw*8pcs

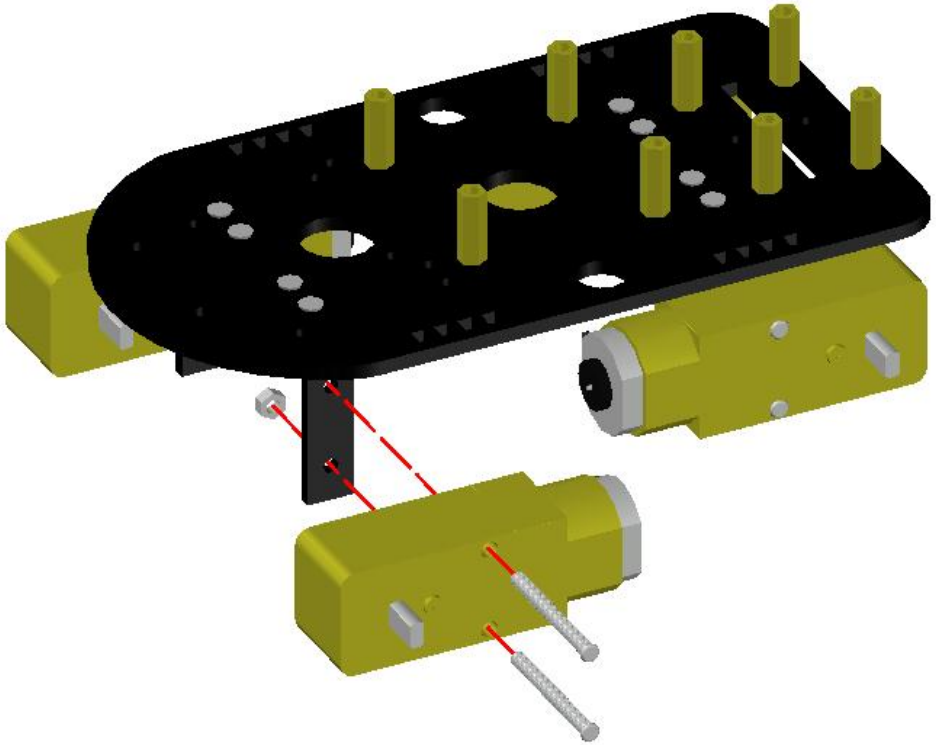


② M3 Nut*8pcs



③ motor*4pcs



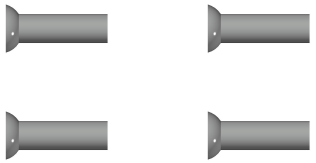


First pass the screw through the motor, then pass through the hole of the bracket, lock the nut, and finally reinforce it with a screwdriver.

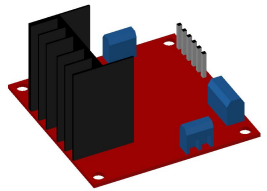
Note: Note that the side of the motor with solder joints should face inward.

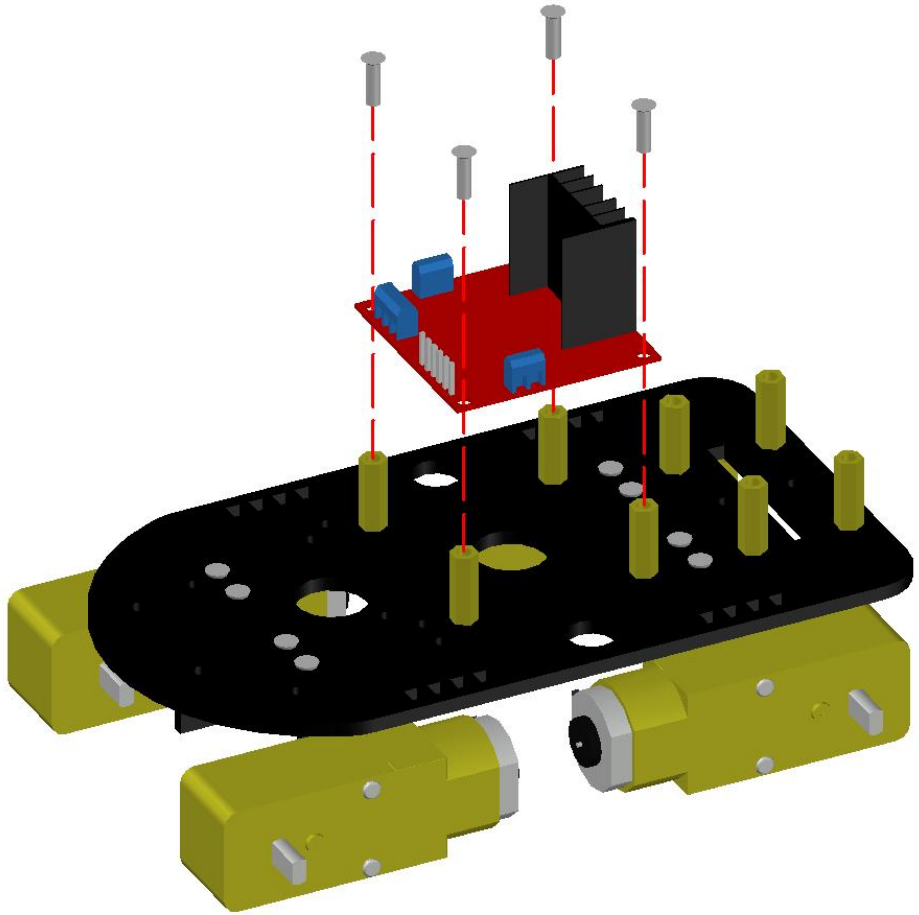
Install motor drive module

① M3*10 flat head screw*4pcs



② Motor drive board*1pc



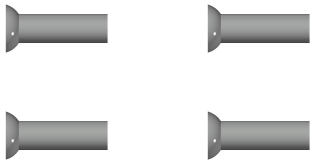


Place the motor drive board on the copper column, align it with the hole, then screw it in, and finally reinforce it with a screwdriver.

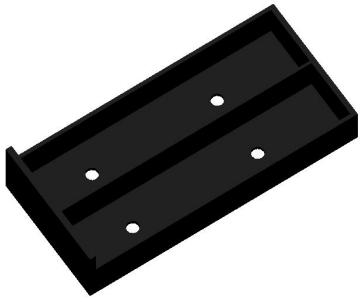
Note: Note the orientation of the motor drive board.

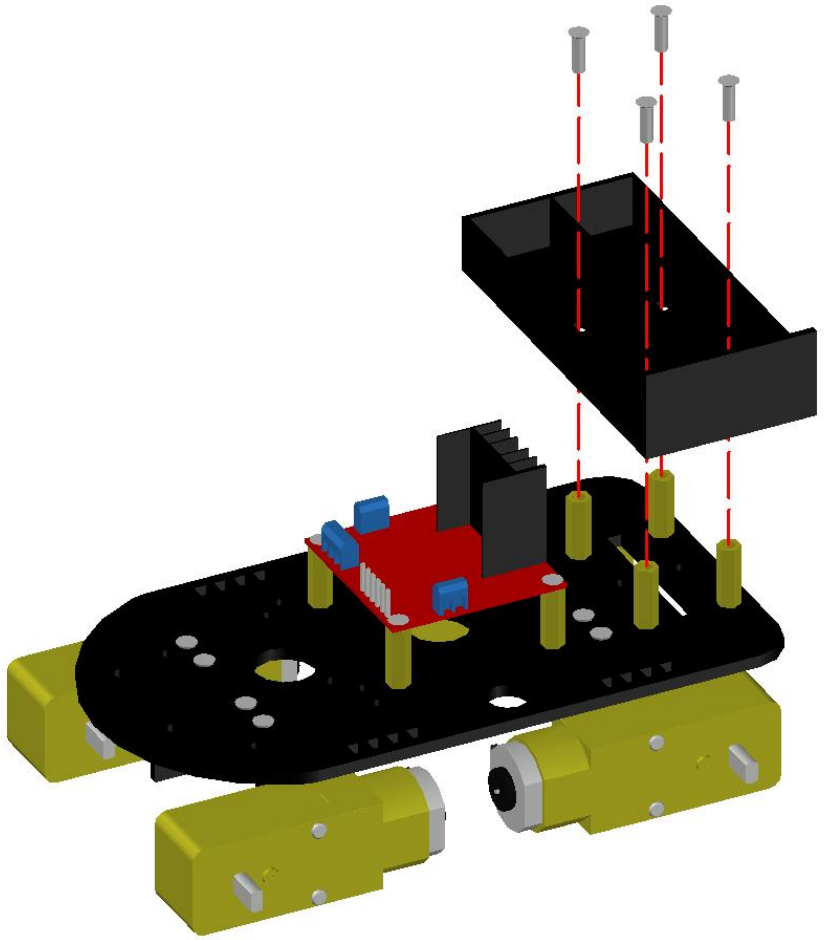
Installing the Battery pack

① M3*10 flat head screw*4pcs



② battery pack*1pc





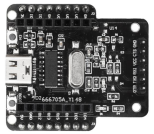
Take the battery case, first remove the cover, then put the battery case on the copper column, align the hole, screw in, and finally reinforce with a screwdriver.

Note: Note the orientation of the battery case.

Install mainboard and expansion board

① ESP32 Cam Wifi bluetooth module development board, with OV2640 camera module*1pc

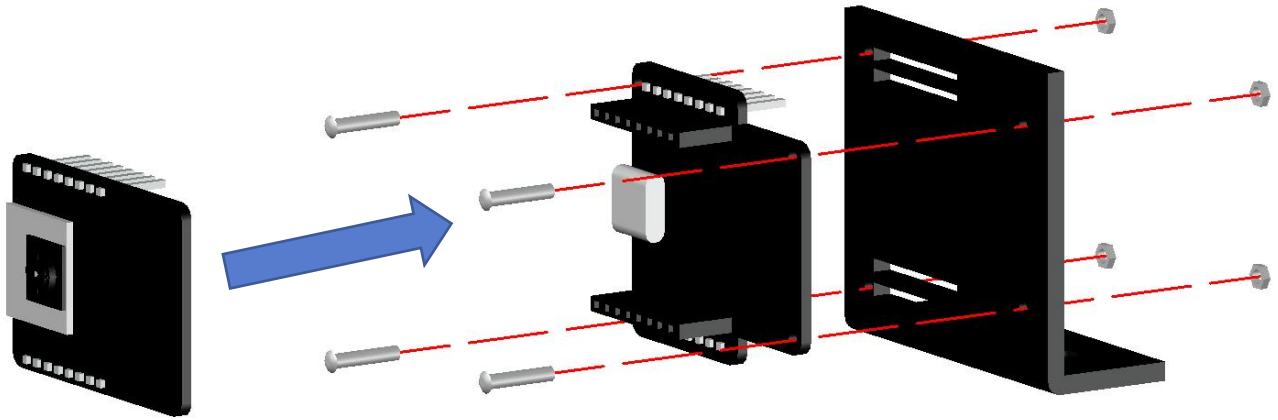
② ESP32 CAM expansion board*1pc



③ mainboard enclosure*1pc

④ M2*10 round head screw*4pcs

⑤ M2 Nut*4pcs



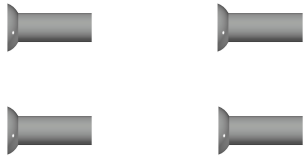
Install the expansion board on the mainboard enclosure first, then plug the mainboard into the expansion board.

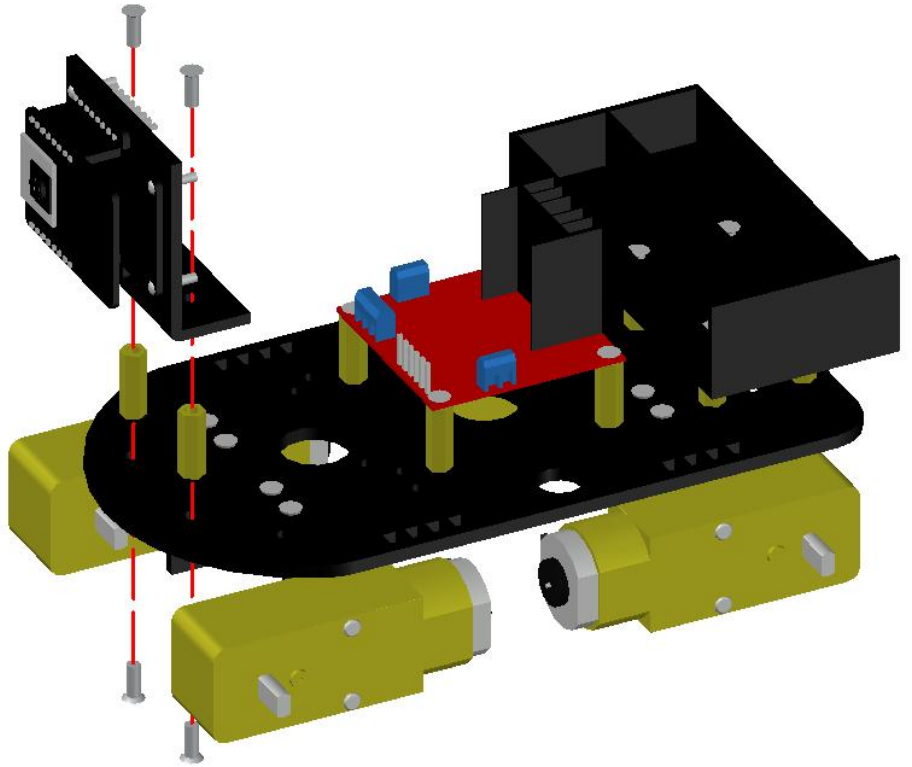
Note: This step uses small parts, so you need to be patient and pay attention to the orientation of the board.

Install Car head

① M3*15 copper column*2pcs

② M3*8 flat head screw*4pcs

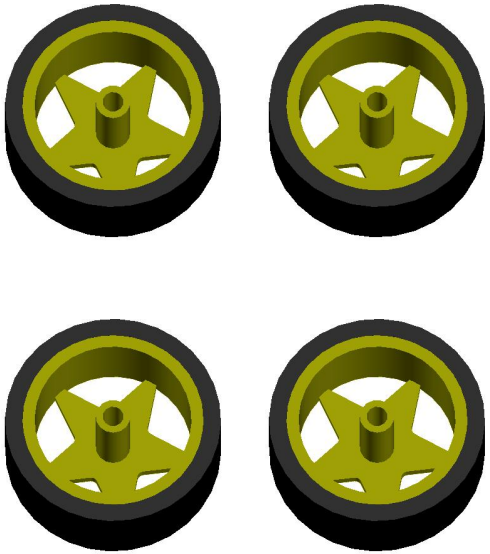


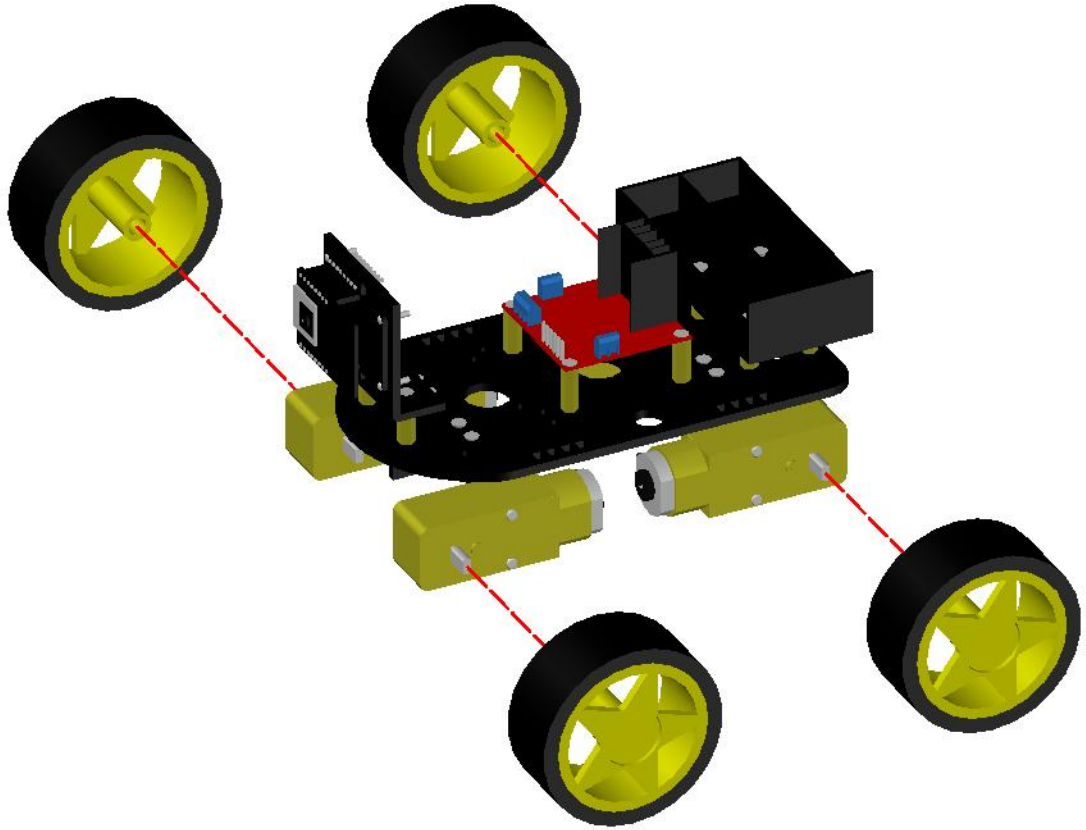


First pass the screw through the corresponding hole in the bottom plate, then fix the copper column, then put the head of the car on the copper column, align with the hole, screw on the screw, and finally reinforce with a screwdriver.

Install the wheel

① wheel*4pcs

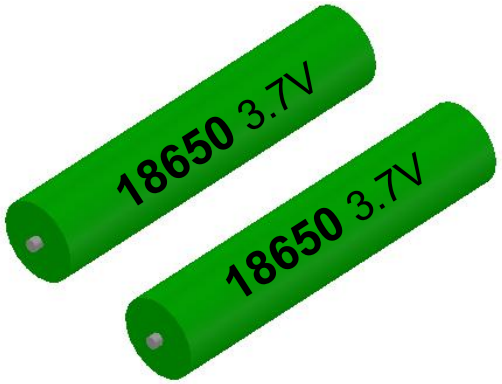




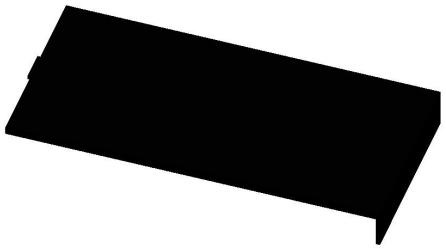
Take out the wheel to observe the shape of its hole first, and the shape of the rotating shaft on the motor, and then reinstall the fixed force.

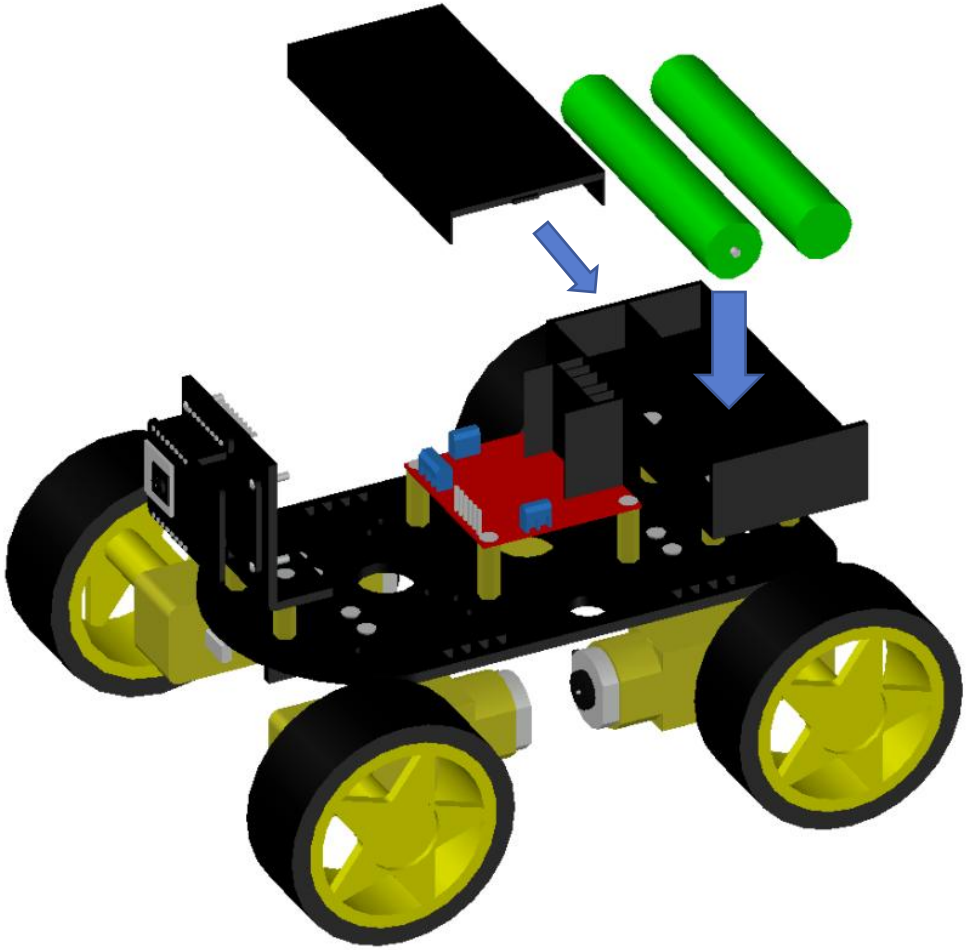
Install the battery and cover the battery

① 18650 3.7V Battery*2pcs



② Battery cover*1pc

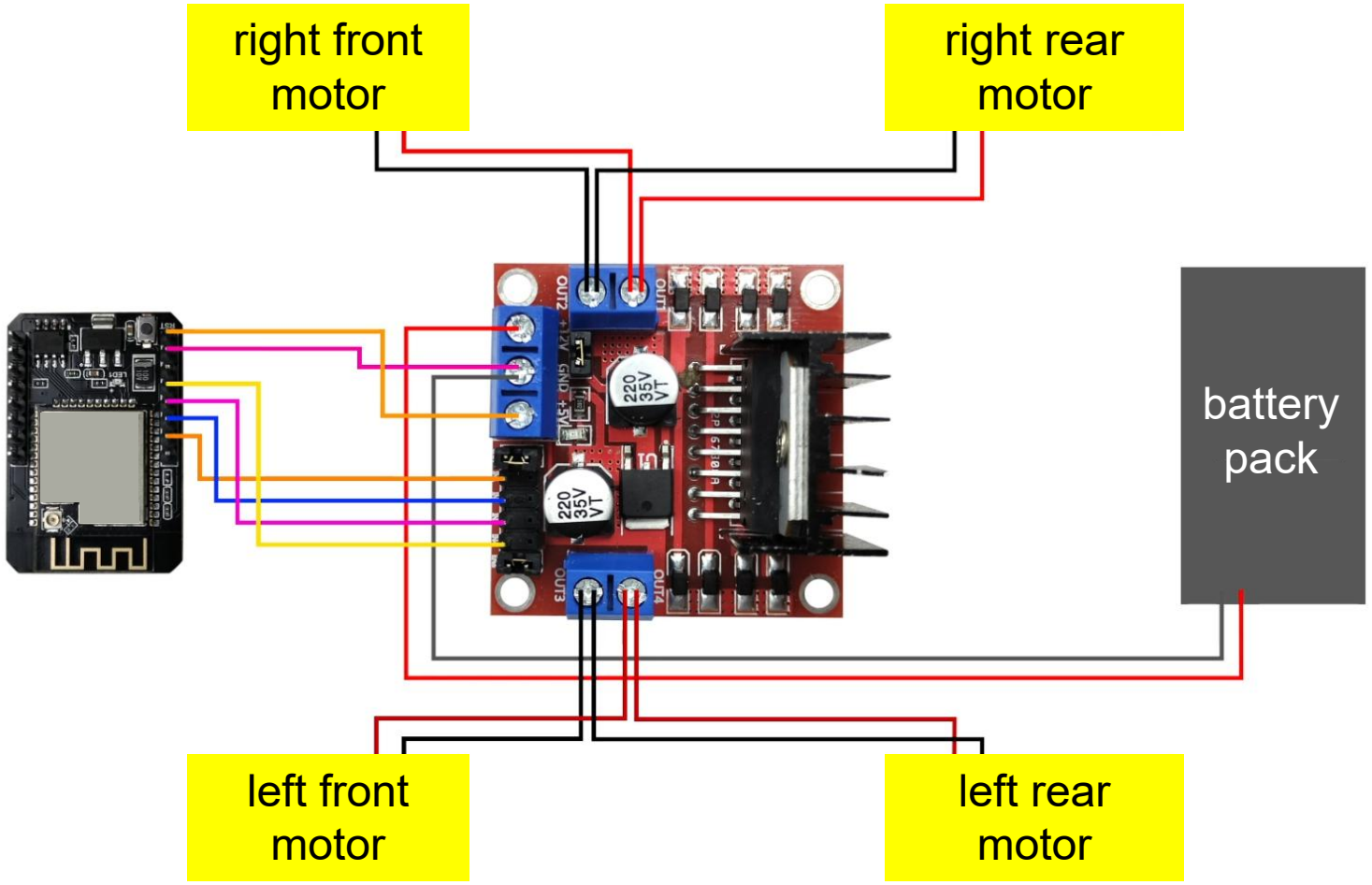




Put the battery into the battery case first, and then put the battery cover on.

Note: pay attention to the positive and negative poles of the battery, do not install the battery upside down.

Connect the line



The installation is complete

Here, congratulations you have completed the whole assembly of the car, then you can combine the code to explore the fun of the smart car, enjoy the joy of programming and toy combination.