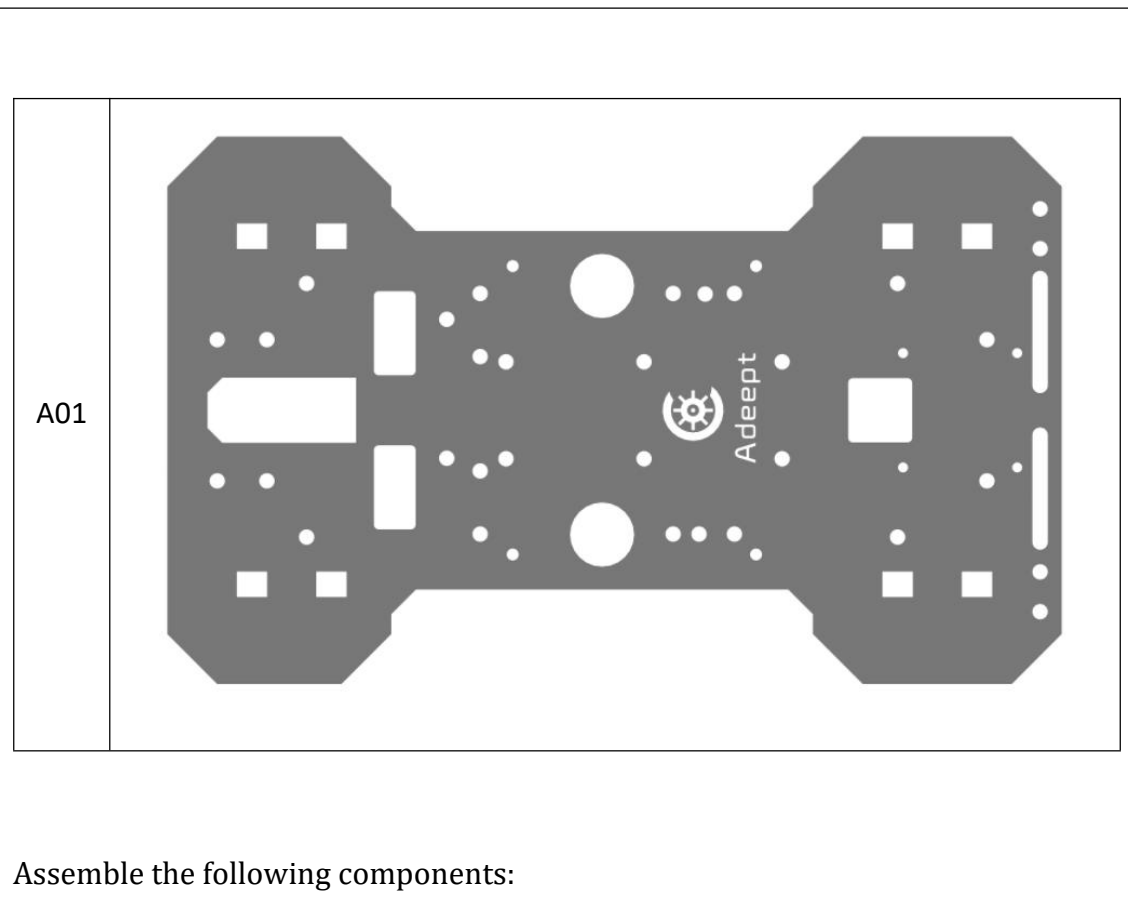
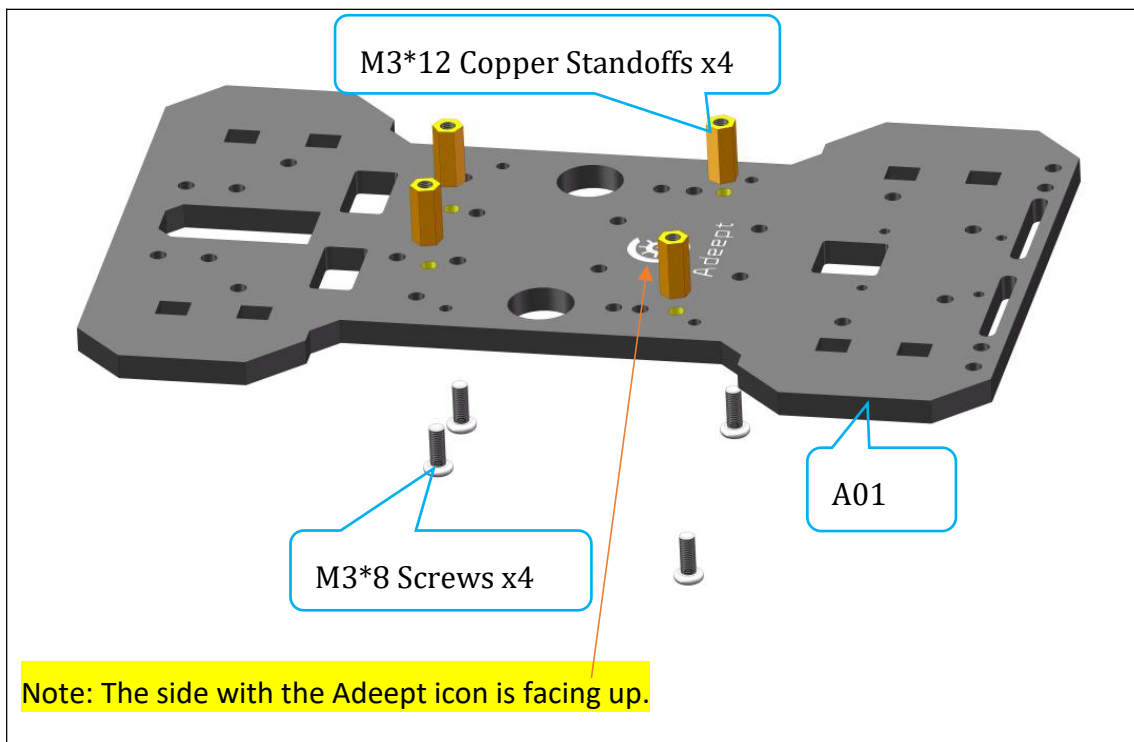


Assembly

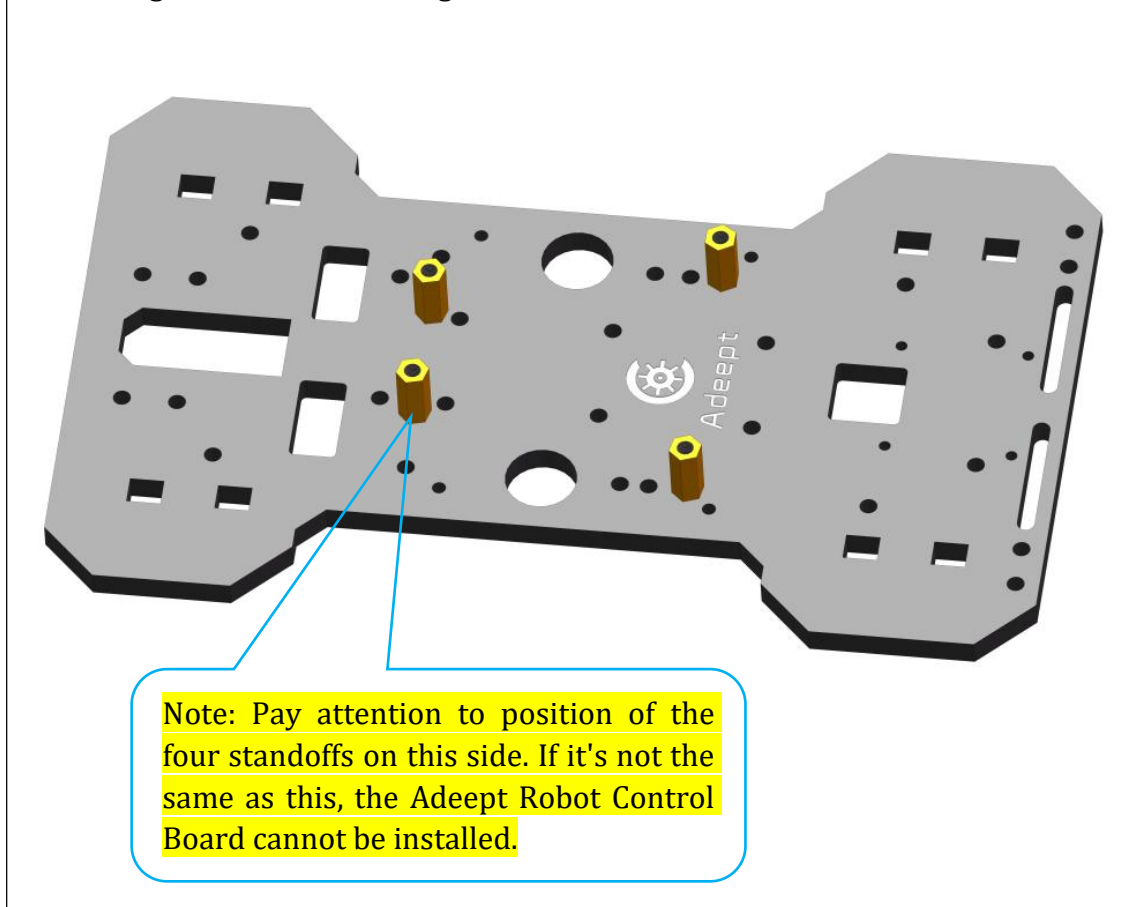
Fix the position

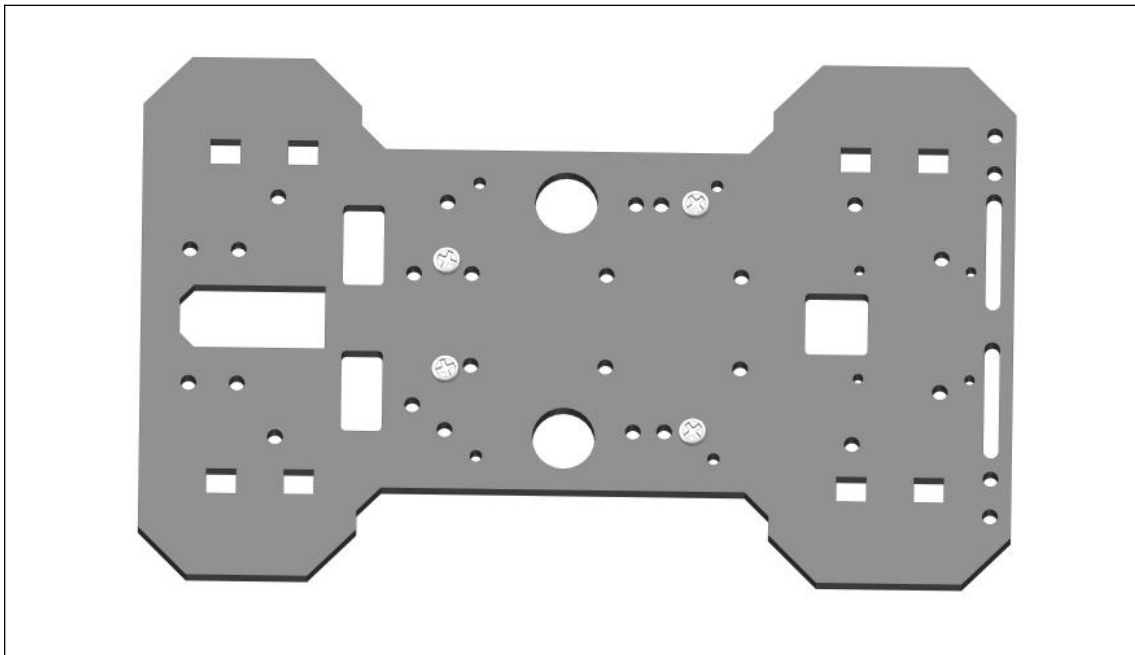
1. Place **four M3*12 copper standoffs** on the holes of A01 (acrylic plate), and then fix them with **four M3*8 screws** to determine the direction of subsequent assembly.





Effect diagram after assembling:

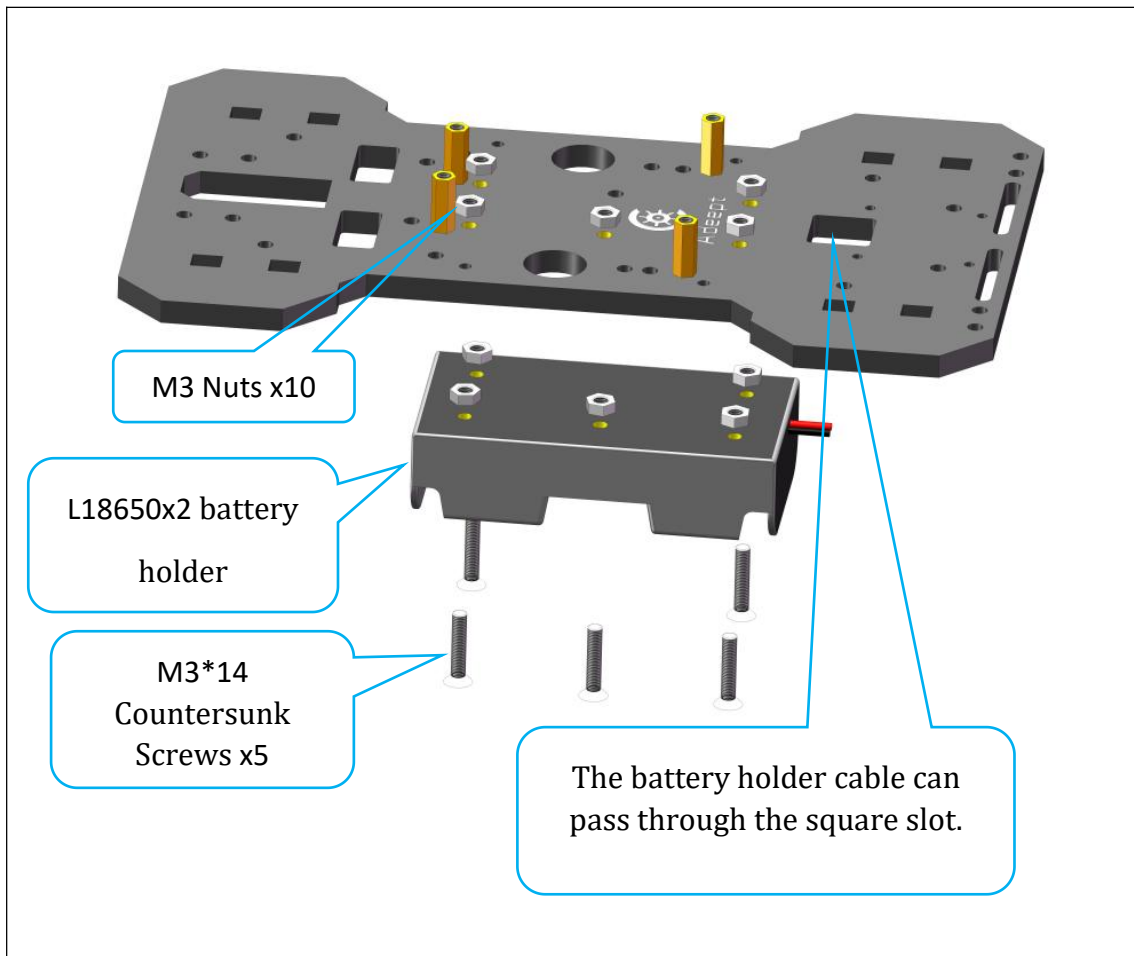




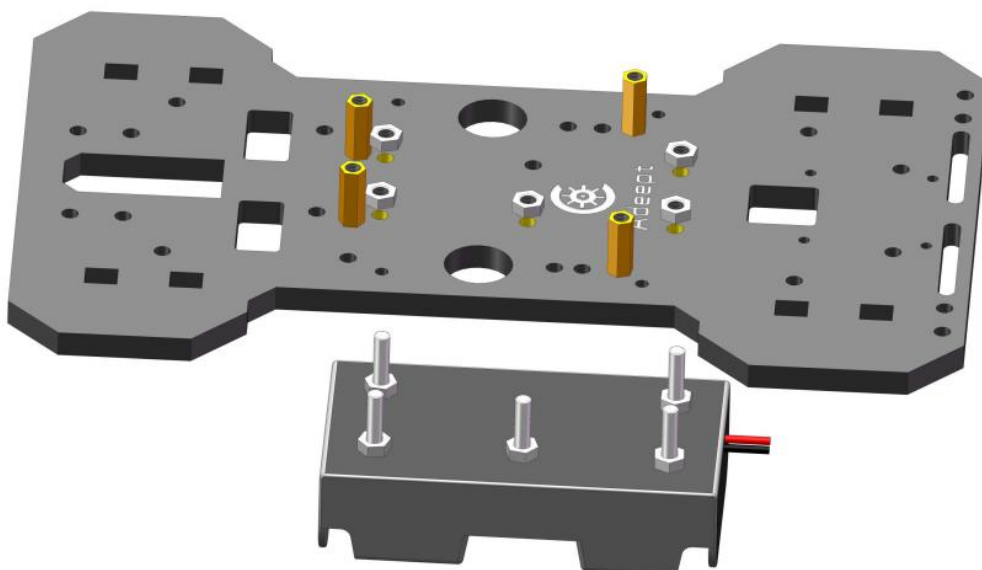
Fix the Battery Holder

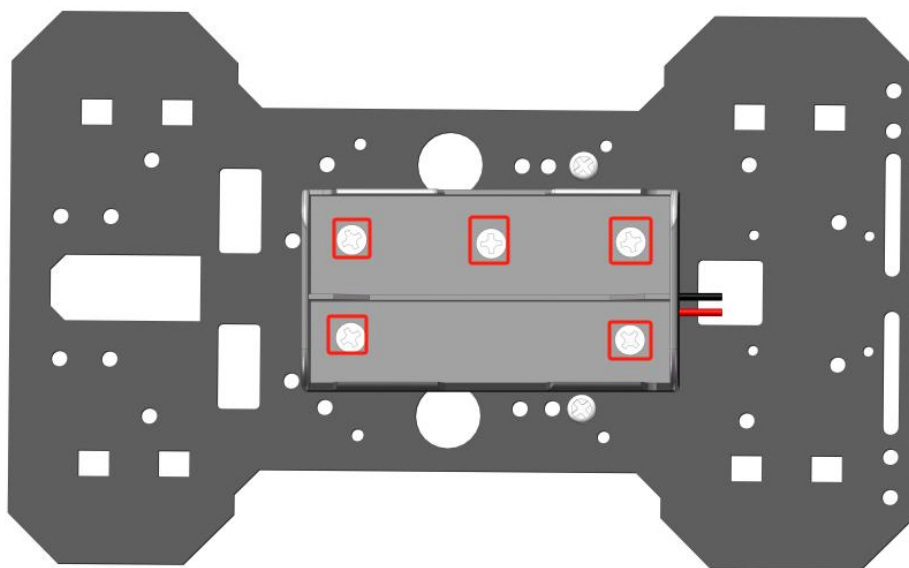
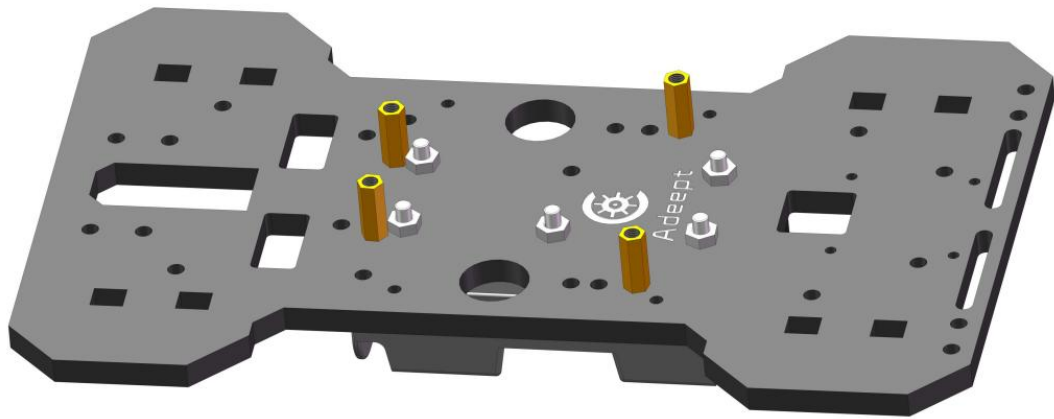
2. Fix the **five M3*14 countersunk screws** to the L18650x2 battery holder with **five M3 nuts** (for support and padding), and then install the battery holder to A01 with **five M3 nuts**.





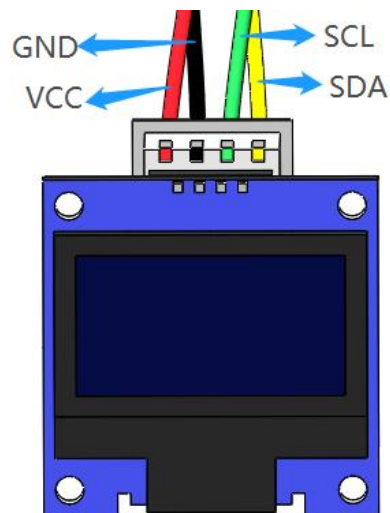
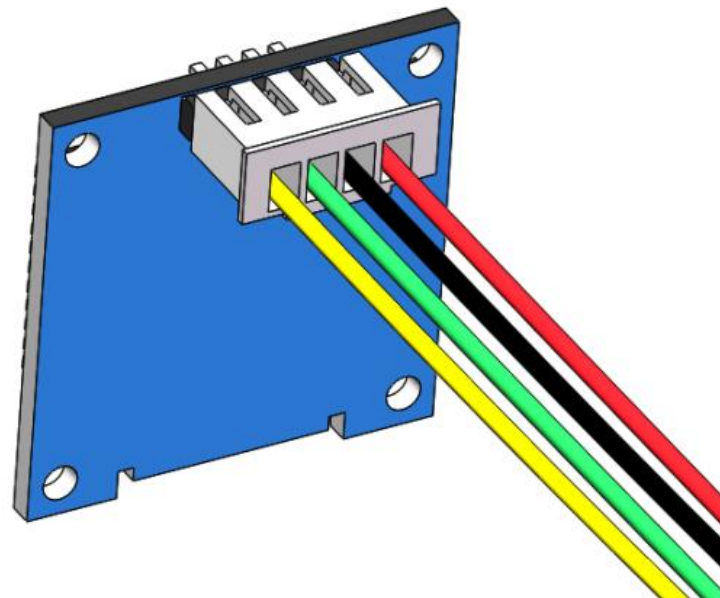
Effect diagram after assembling:



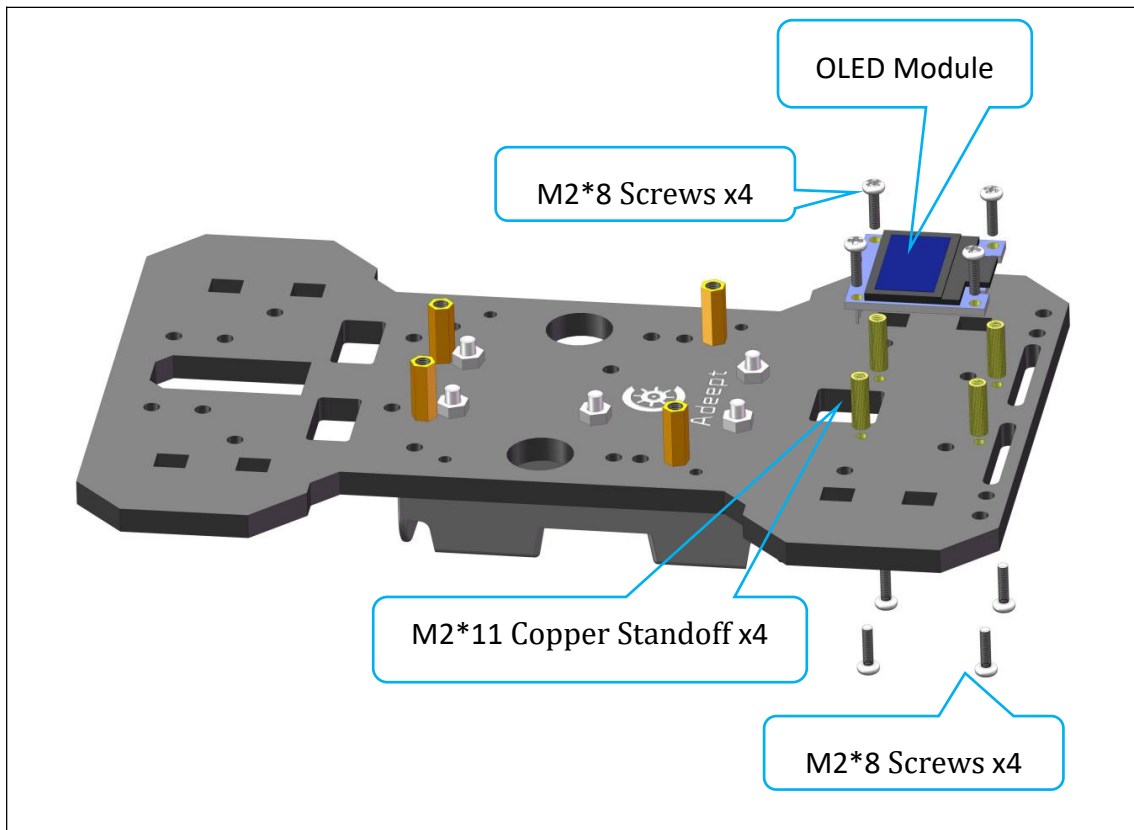


Fix the OLED screen

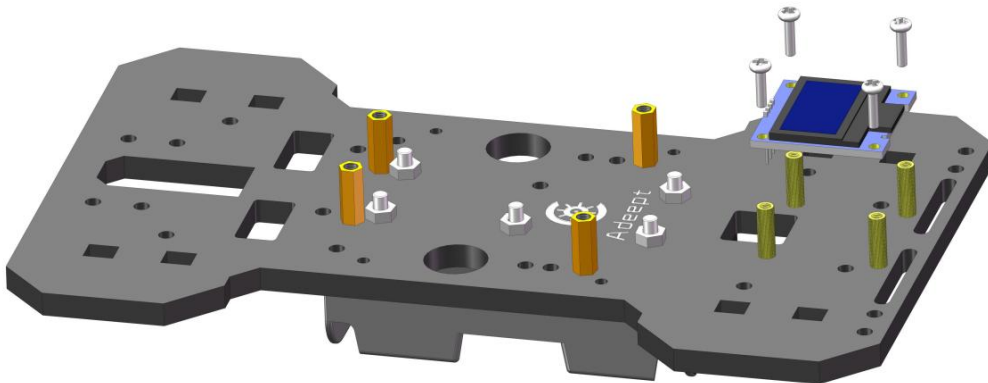
3. Fix **four M2*11 copper standoff** with **four M2*8 screws**. Secure the OLED screen with **four M2*8 screws**. (**Before installing the OLED screen, you need to connect the cables**)

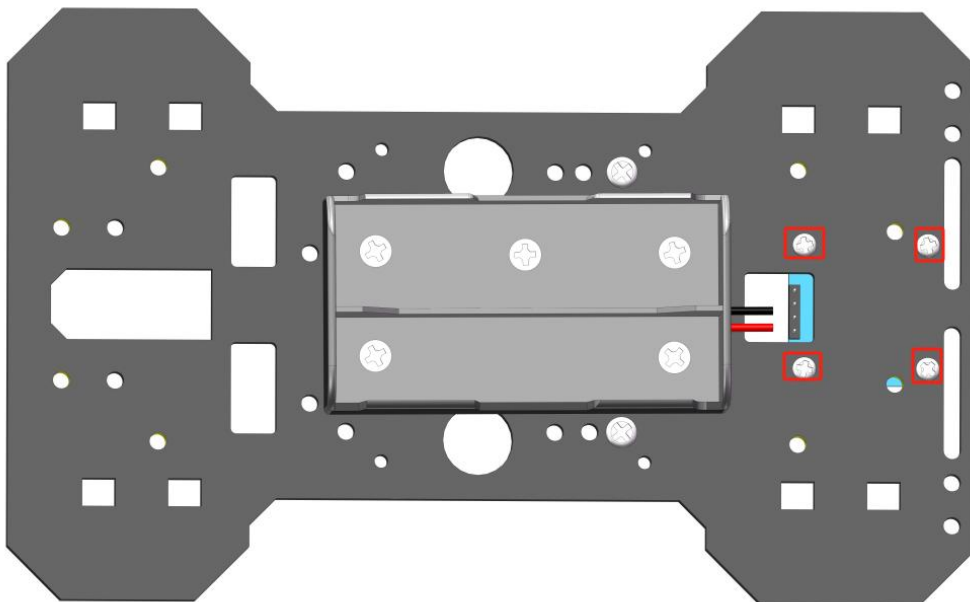
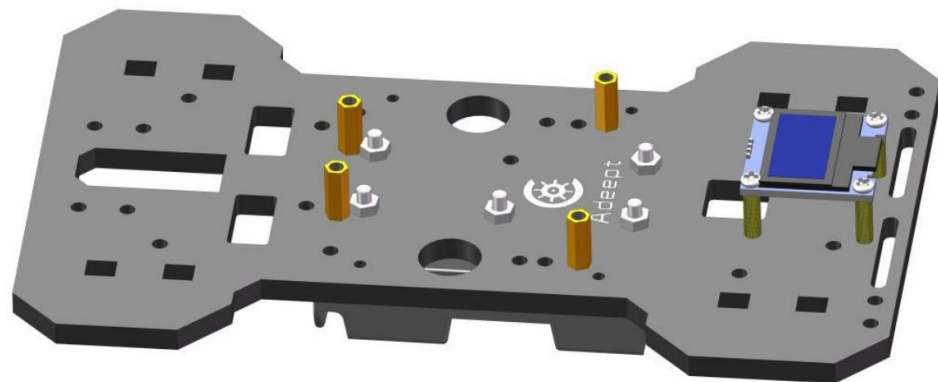


The yellow line corresponds to SDA and the red line corresponds to VCC.



Effect diagram after assembling:

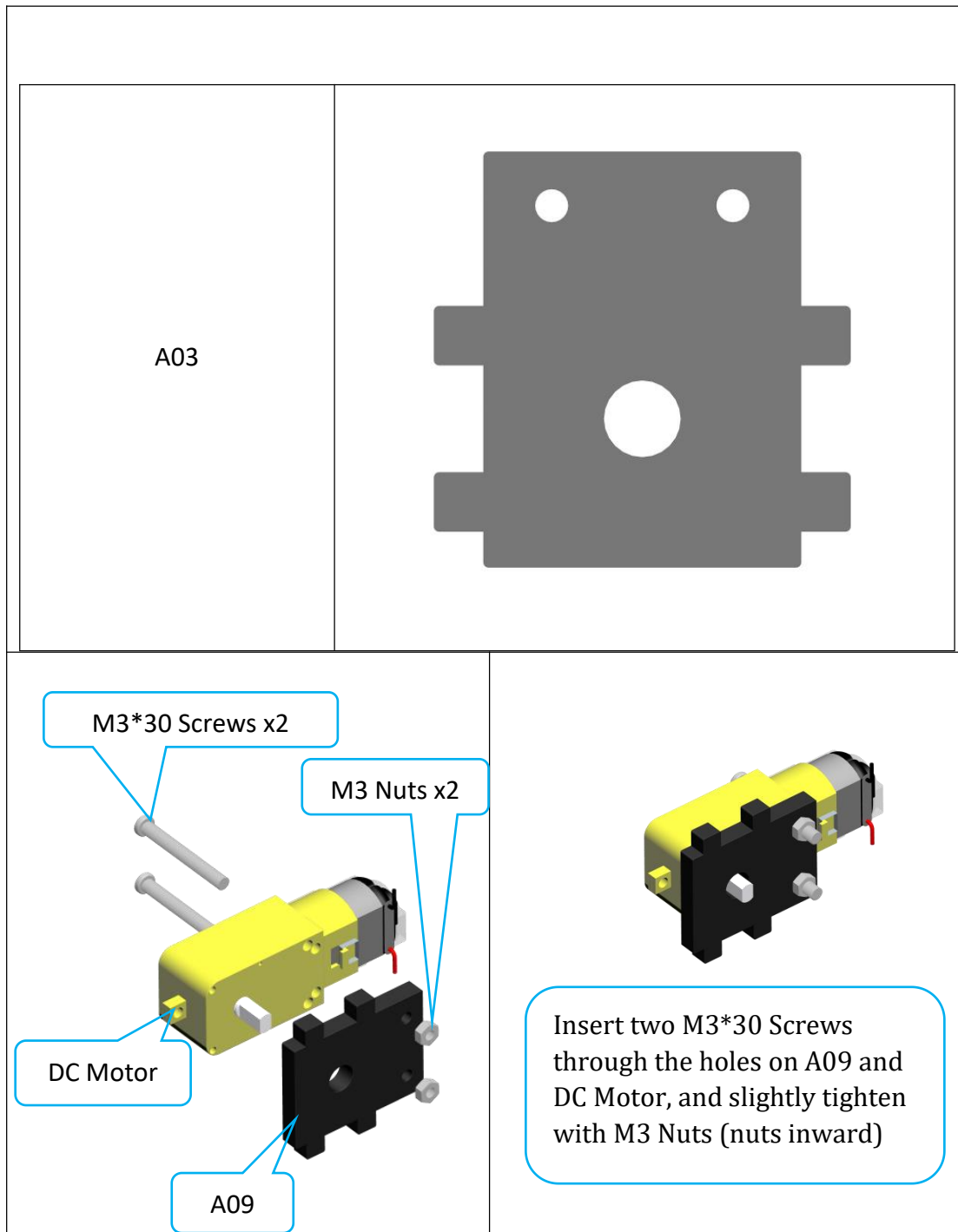




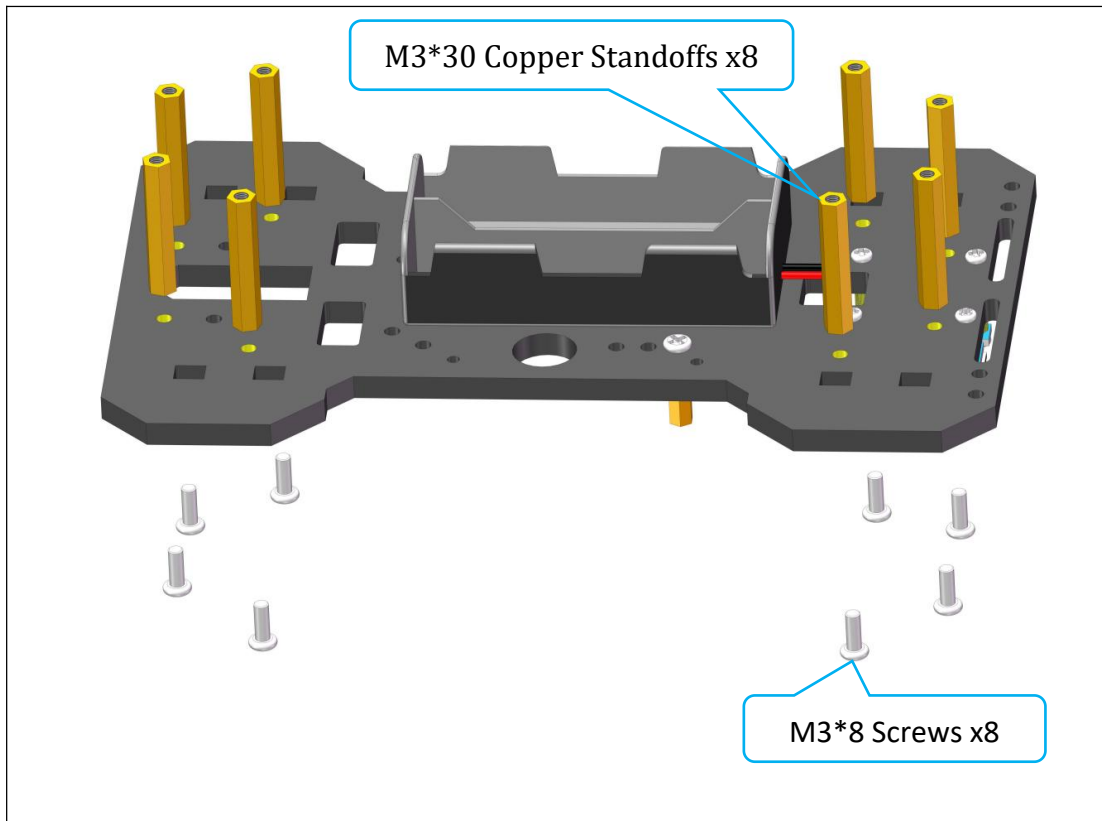
Assemble the rear wheels

4.1 Use **two M3*30 screws** and **two M3 nuts** to fix the DC motor to A09.

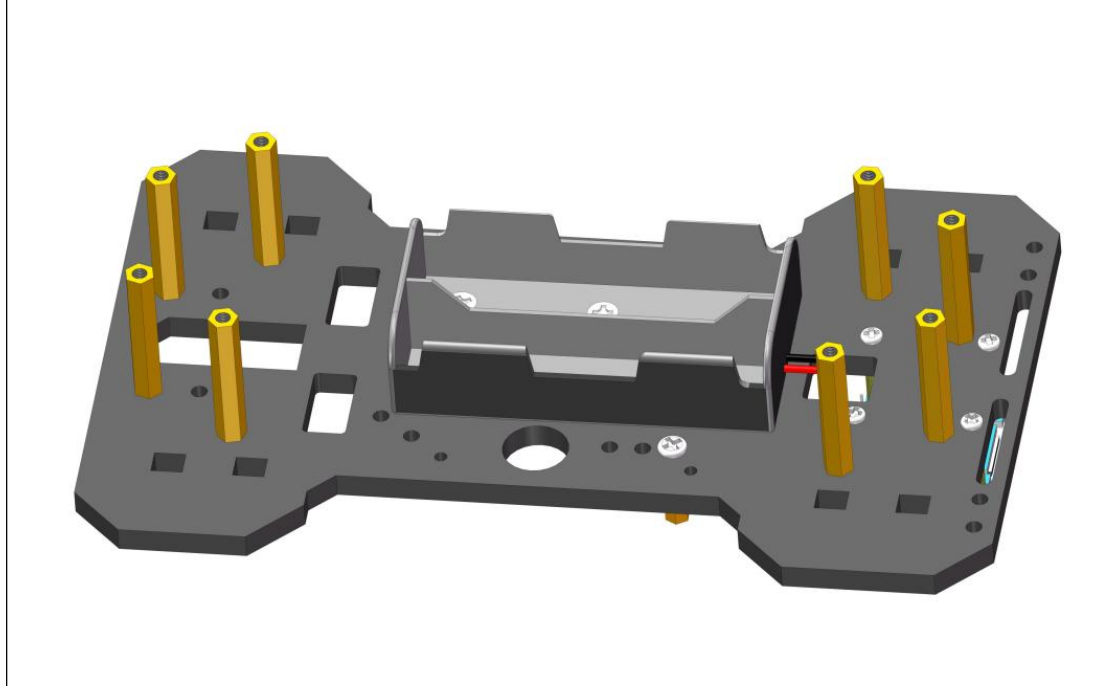
Assemble 4 sets.

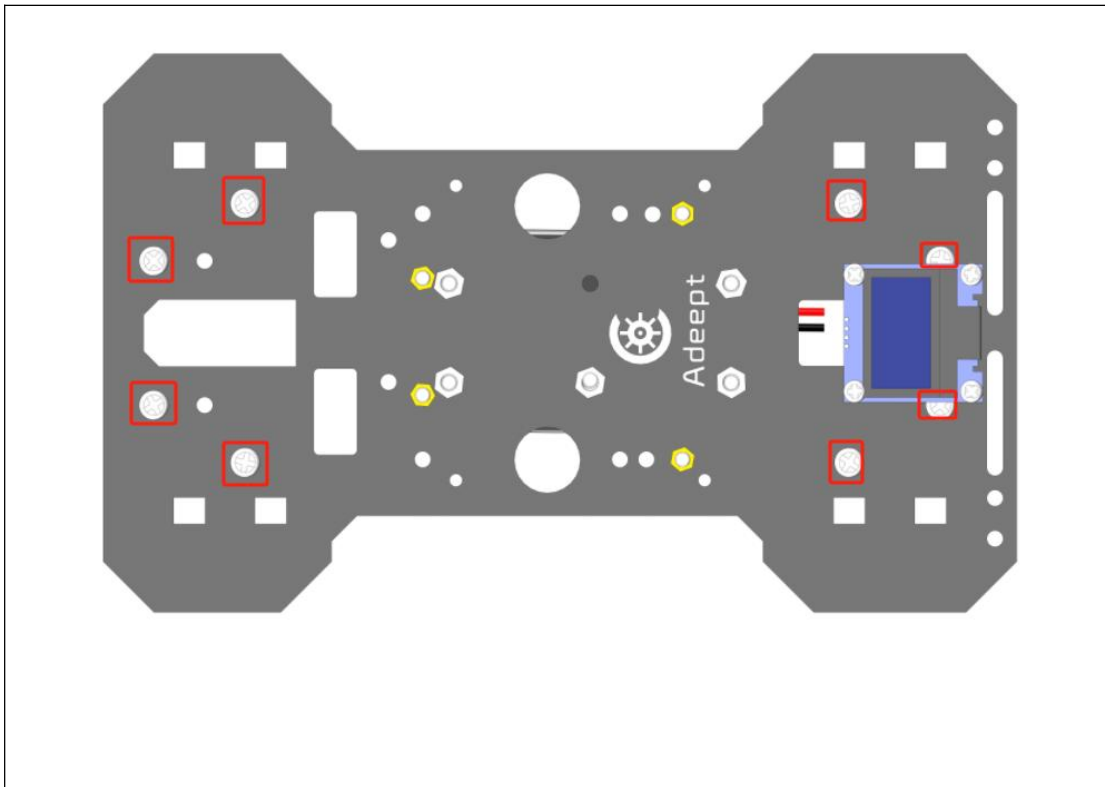


4.2 Use **eight M3*8 screws** to fix **eight M3*30 copper standoffs** to A01.

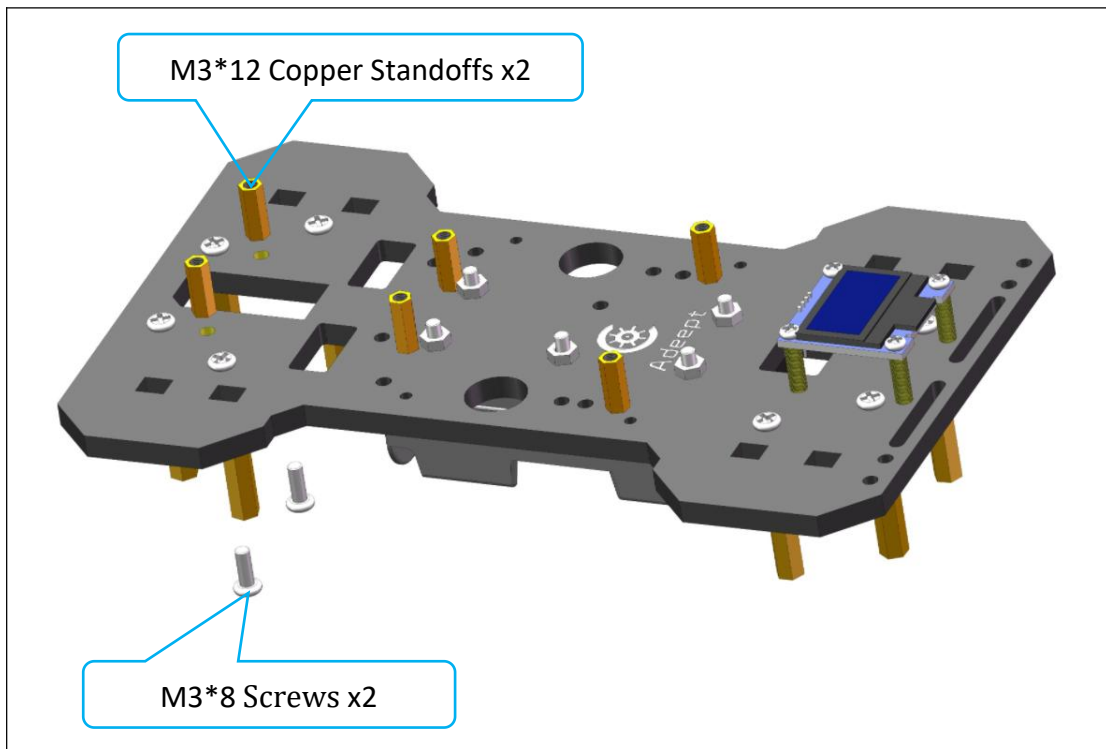


Effect diagram after assembling:

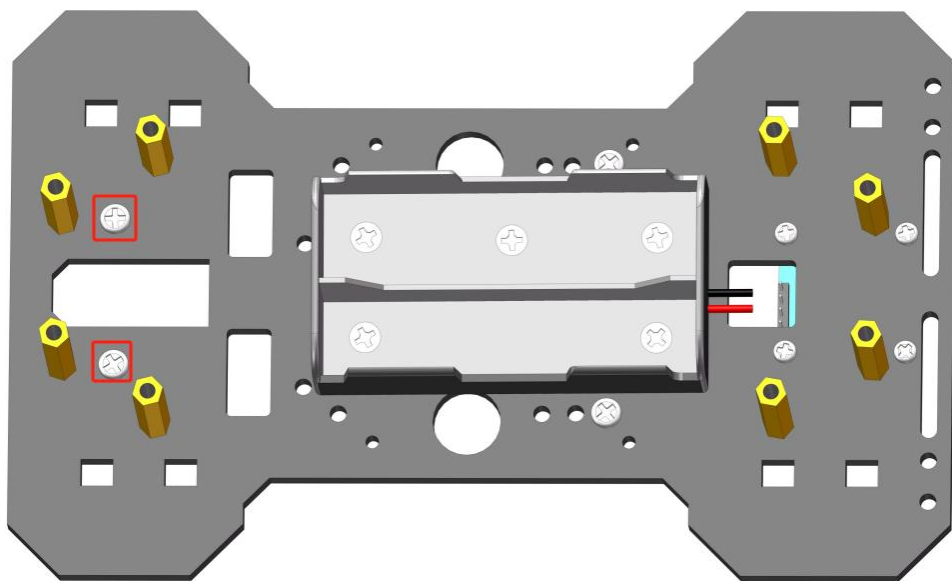
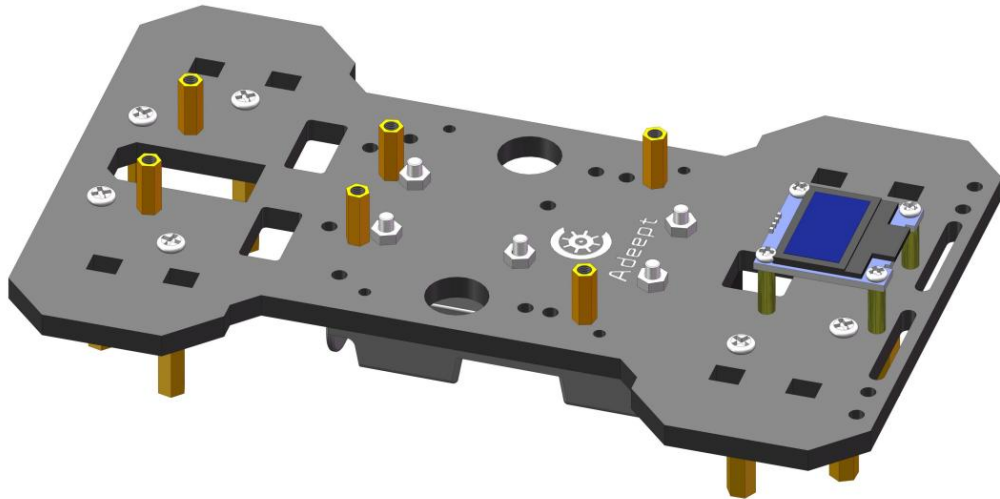




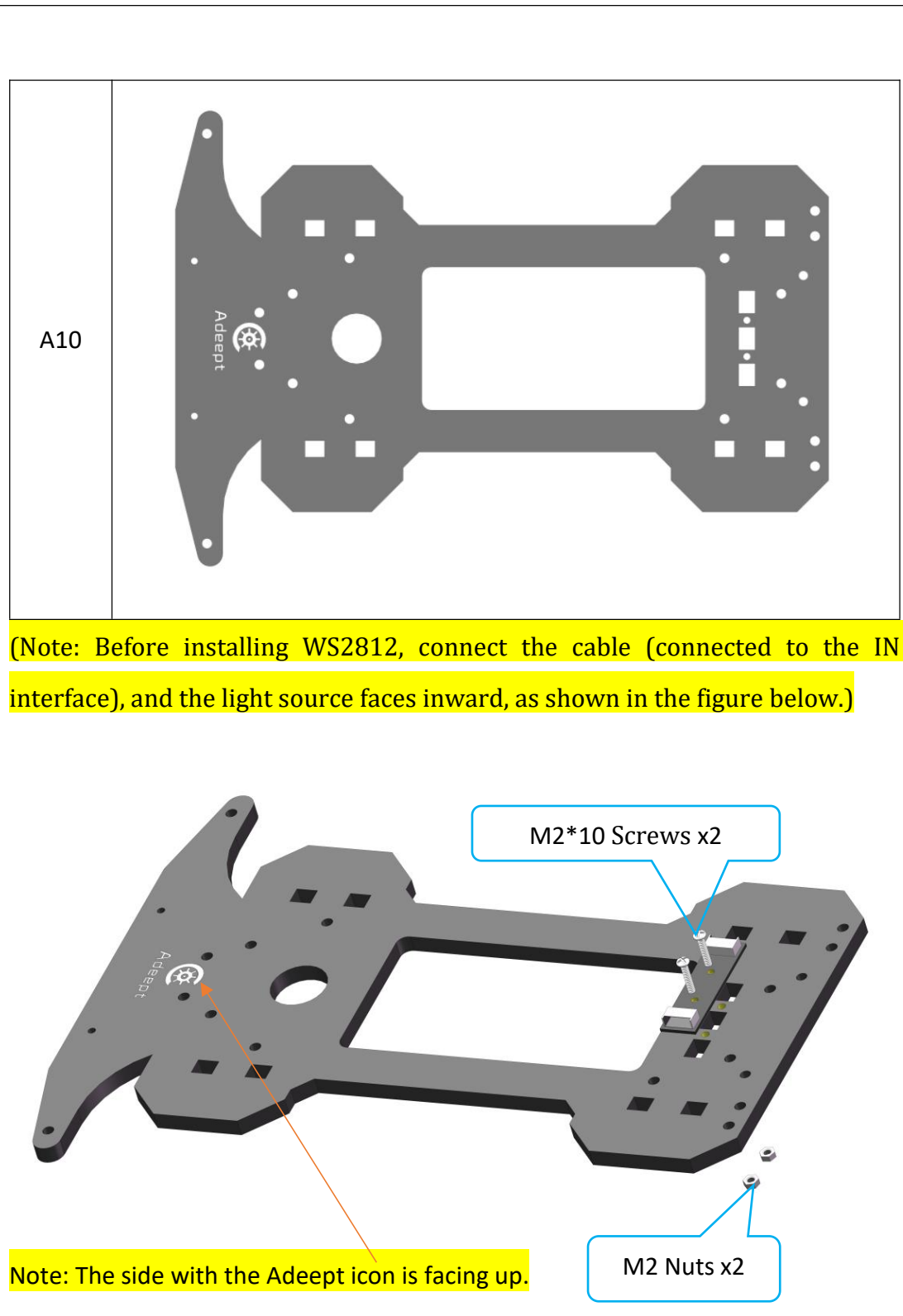
4.3 Use **two M3*8 screws** to install two **M3*12 copper standoffs** to **A01**



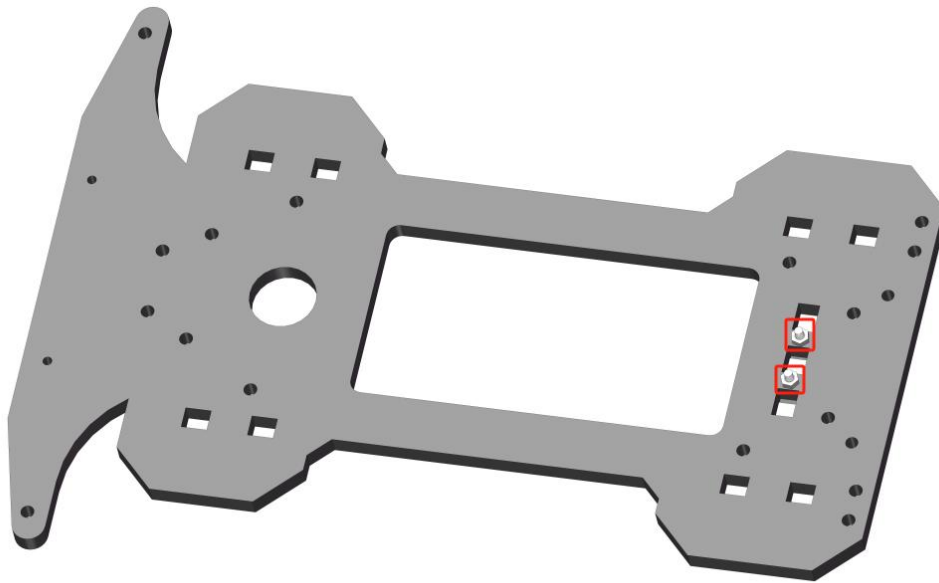
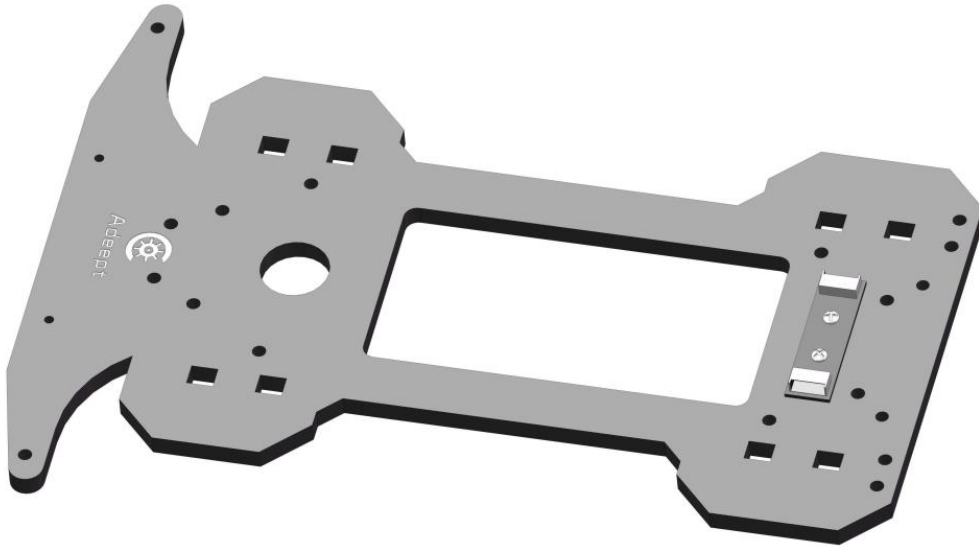
Effect diagram after assembling:



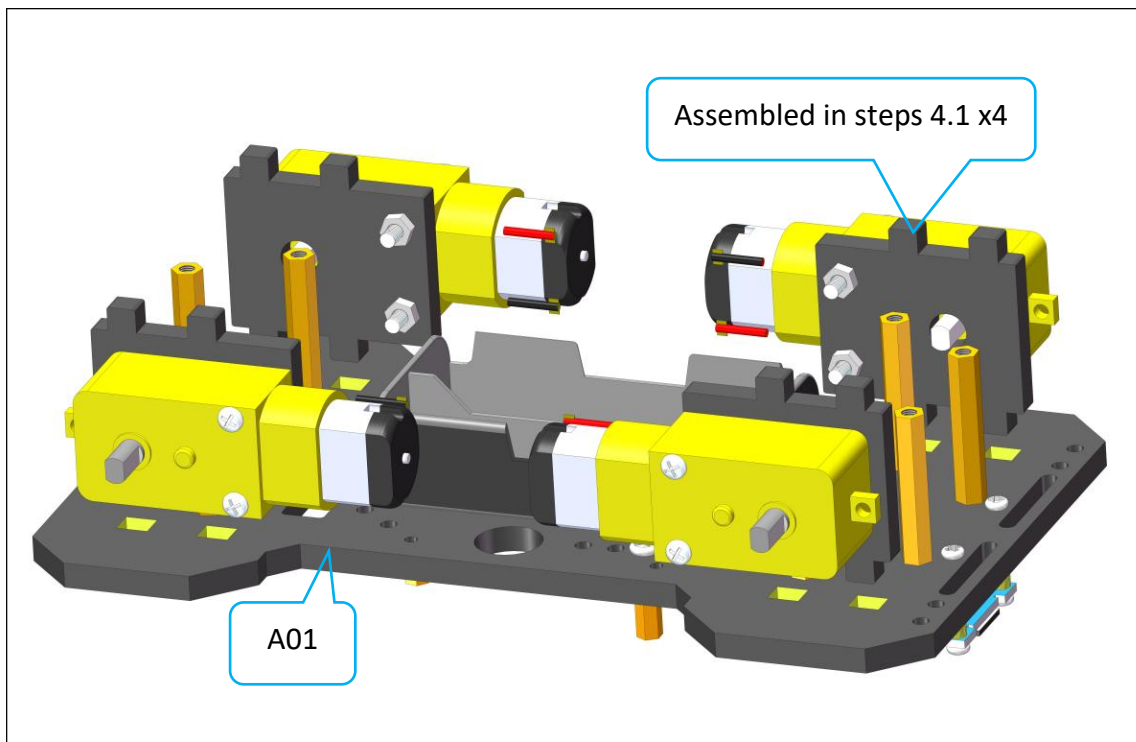
4.4 Install WS2812 to A02 use **two M2*10 screws** and **two M2 nuts**.



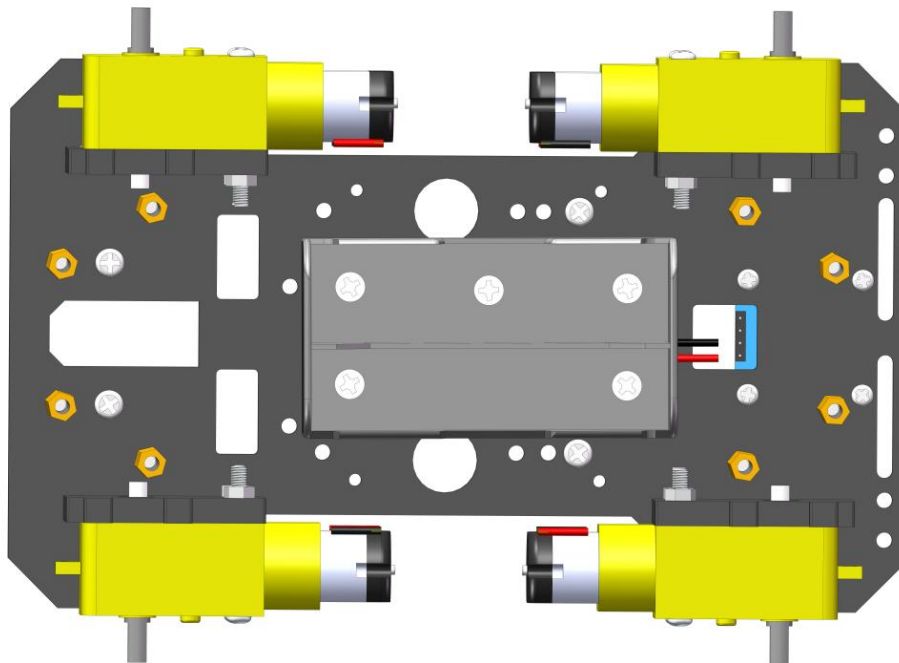
Effect diagram after assembling:

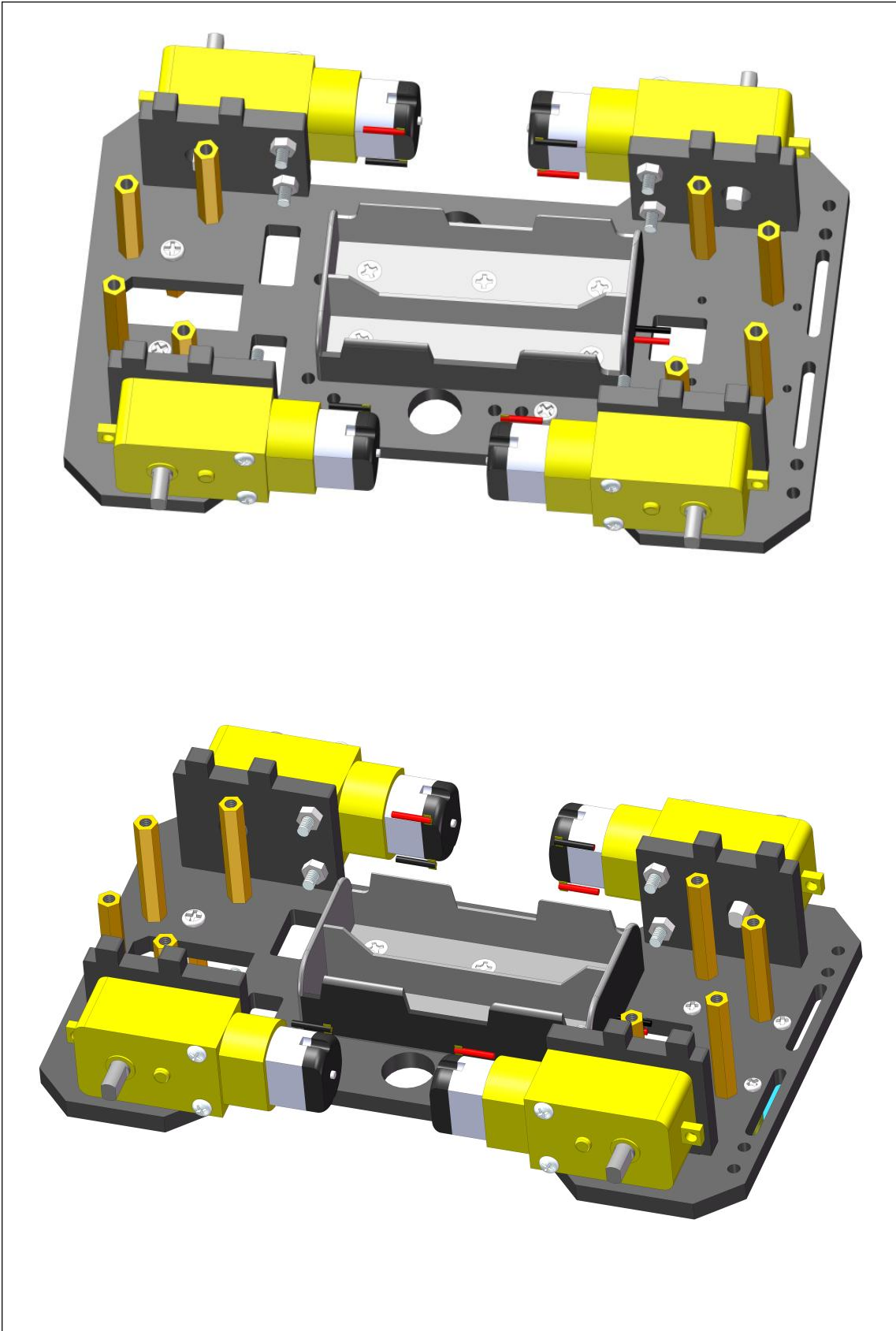


4.5 Fix the components assembled in steps 4.1 to A01.

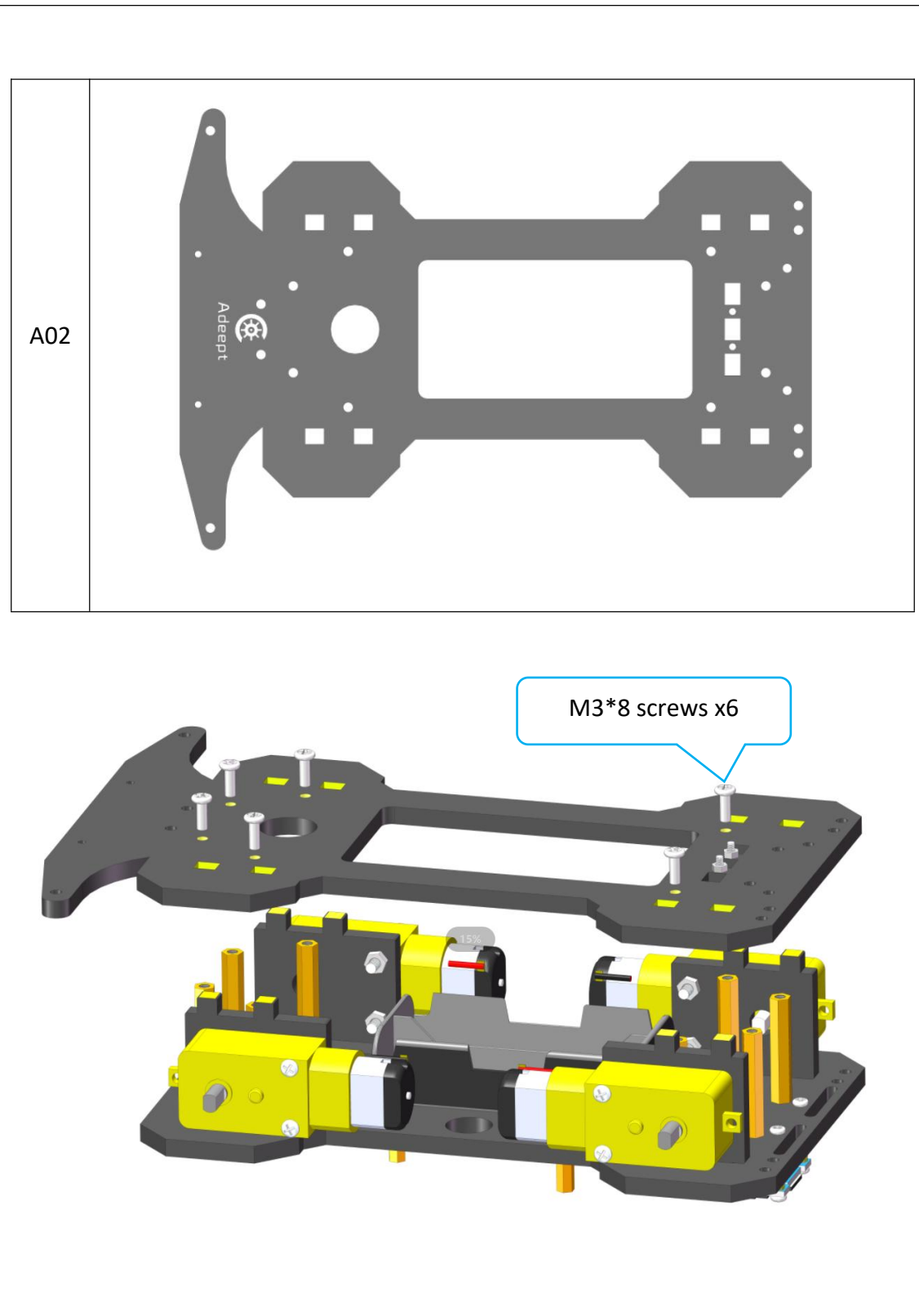


Effect diagram after assembling:

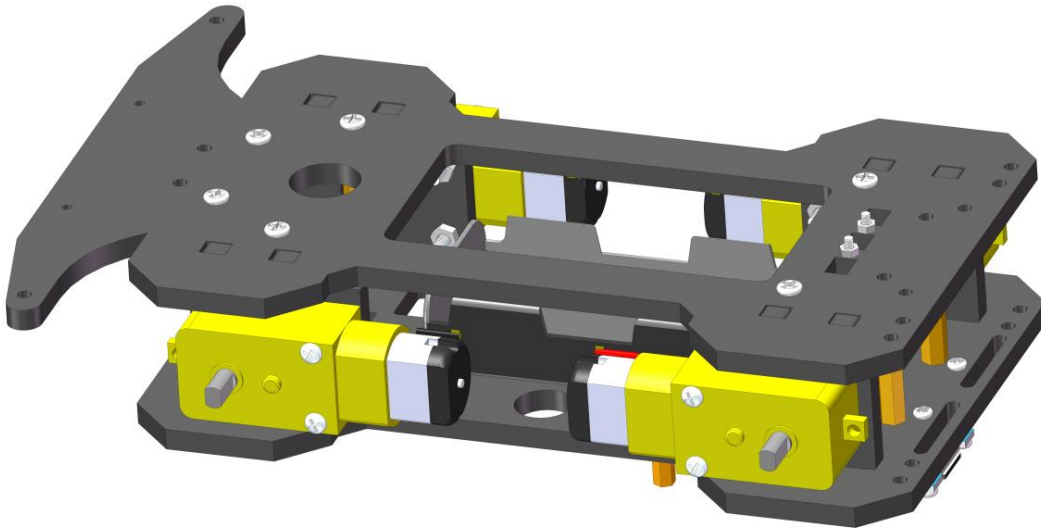




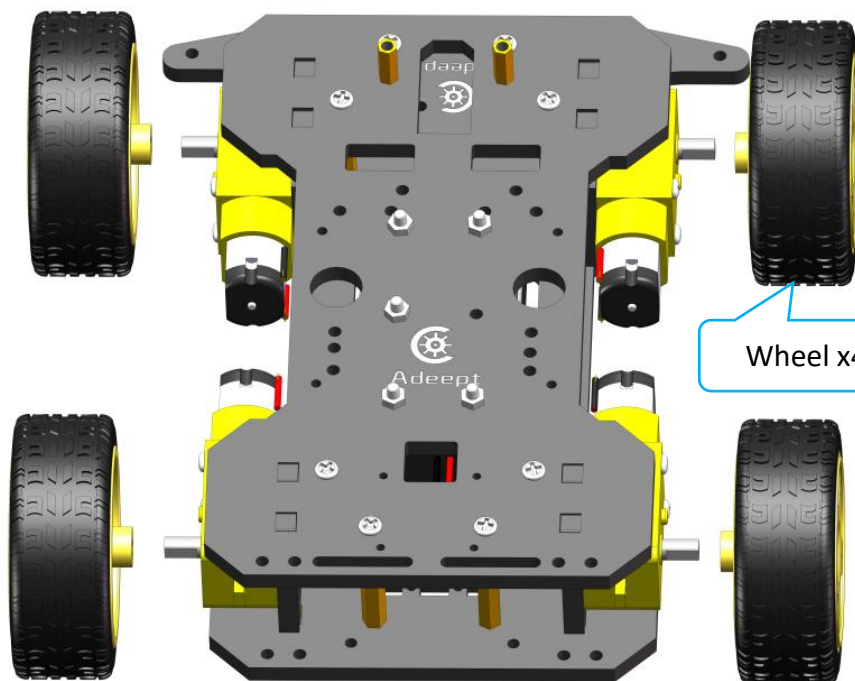
4.5 Use **six M3*8 screws** fix the A02 to A01.



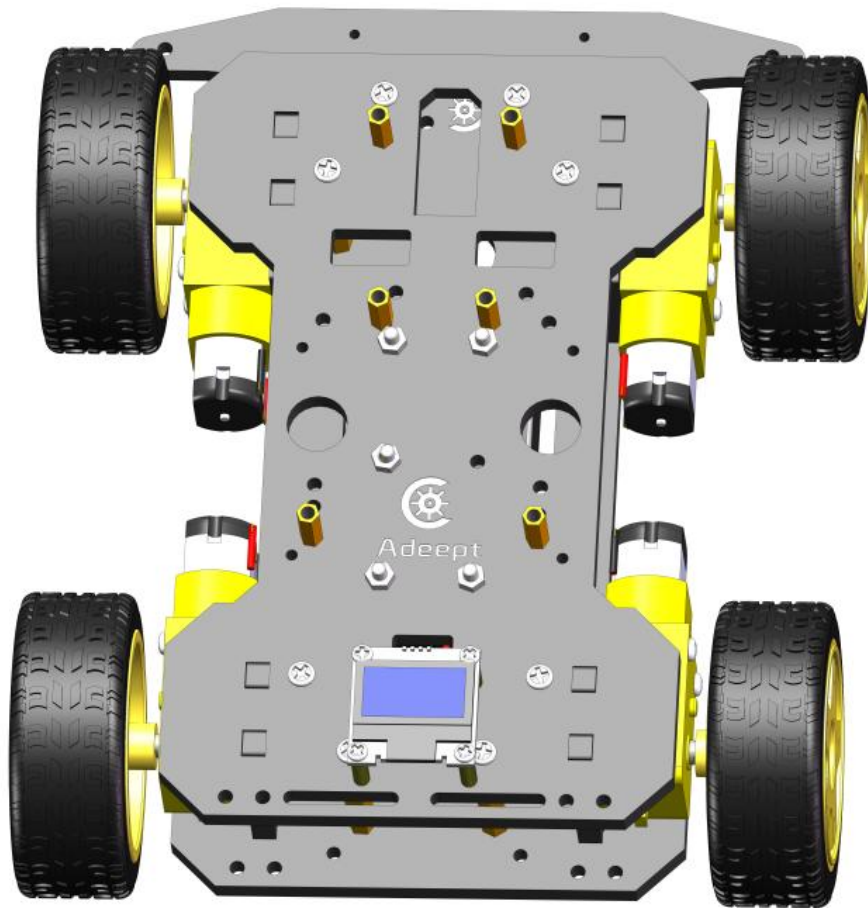
Effect diagram after assembling:



4.6 Install **four wheel** onto the motor shaft.



Effect diagram after assembling:

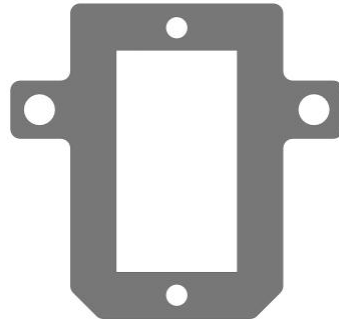


Assemble the servo

4.1 Before assembly, please confirm whether to adjust the initial angle of the servo to 90 degrees (middle angle) according to the tutorial "[1 Adjust the initial angle of the servo](#)".

4.2 Use **two M2*10 screws** and **two M2 Nuts** assemble the servo to the A04.

A04

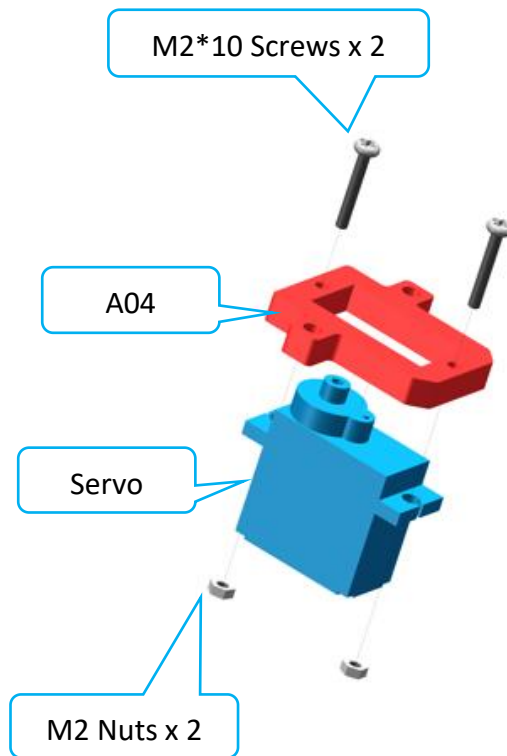


M2*10 Screws x 2

A04

Servo

M2 Nuts x 2

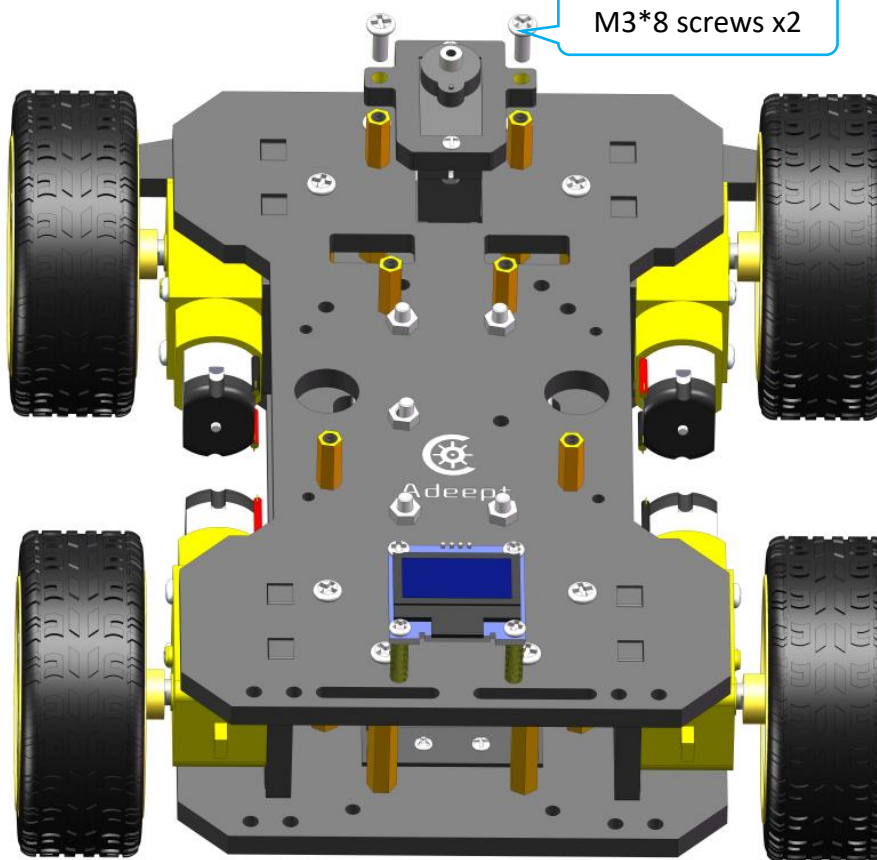


Effect diagram after assembling:

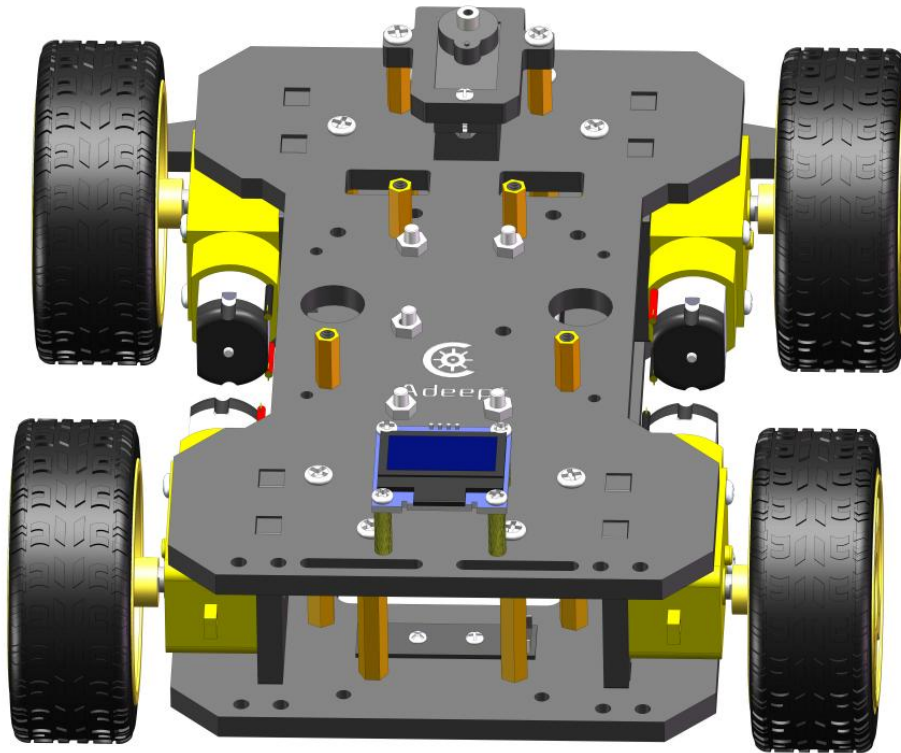


Note: The servo shaft should be on the other two holes in the acrylic plate.

4.3 Use **two M3*8 screws** to fix the servo.



Effect diagram after assembling:

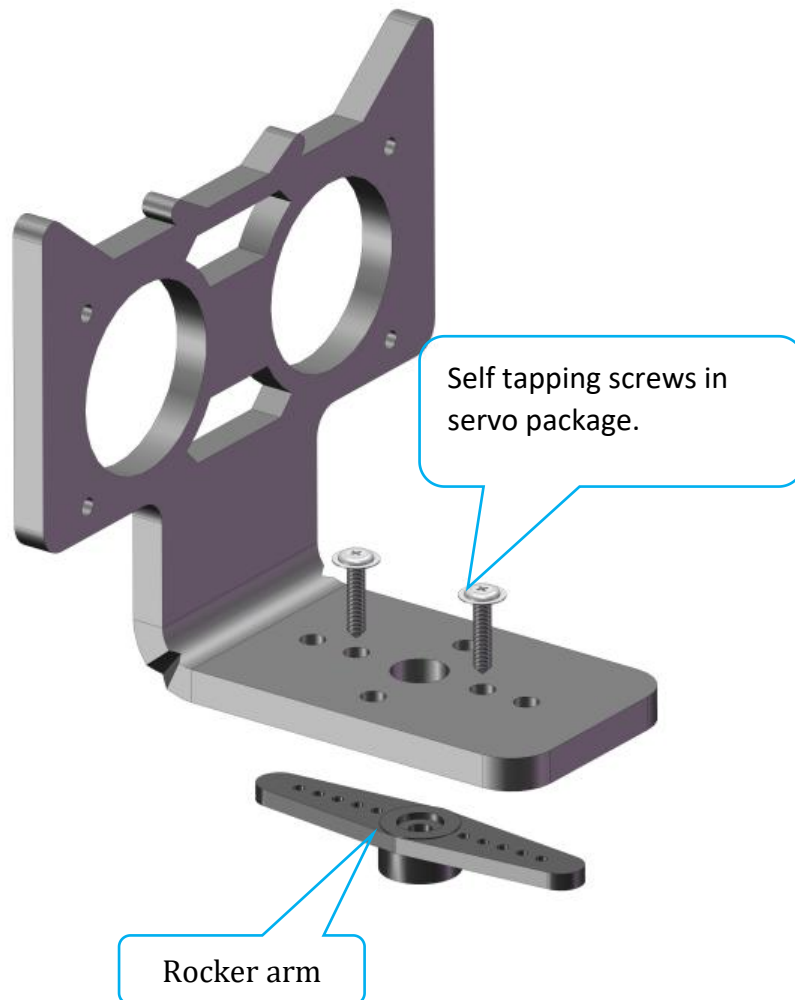
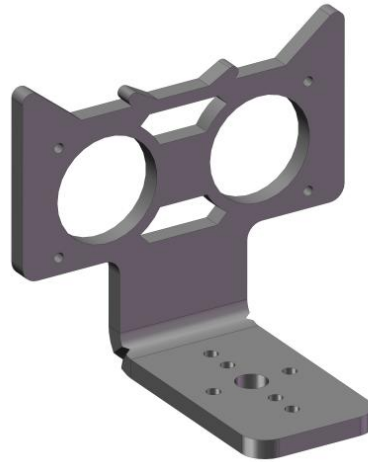


Assemble Ultrasonic Module to A06

5.1 Fix the rocker arm to A06.



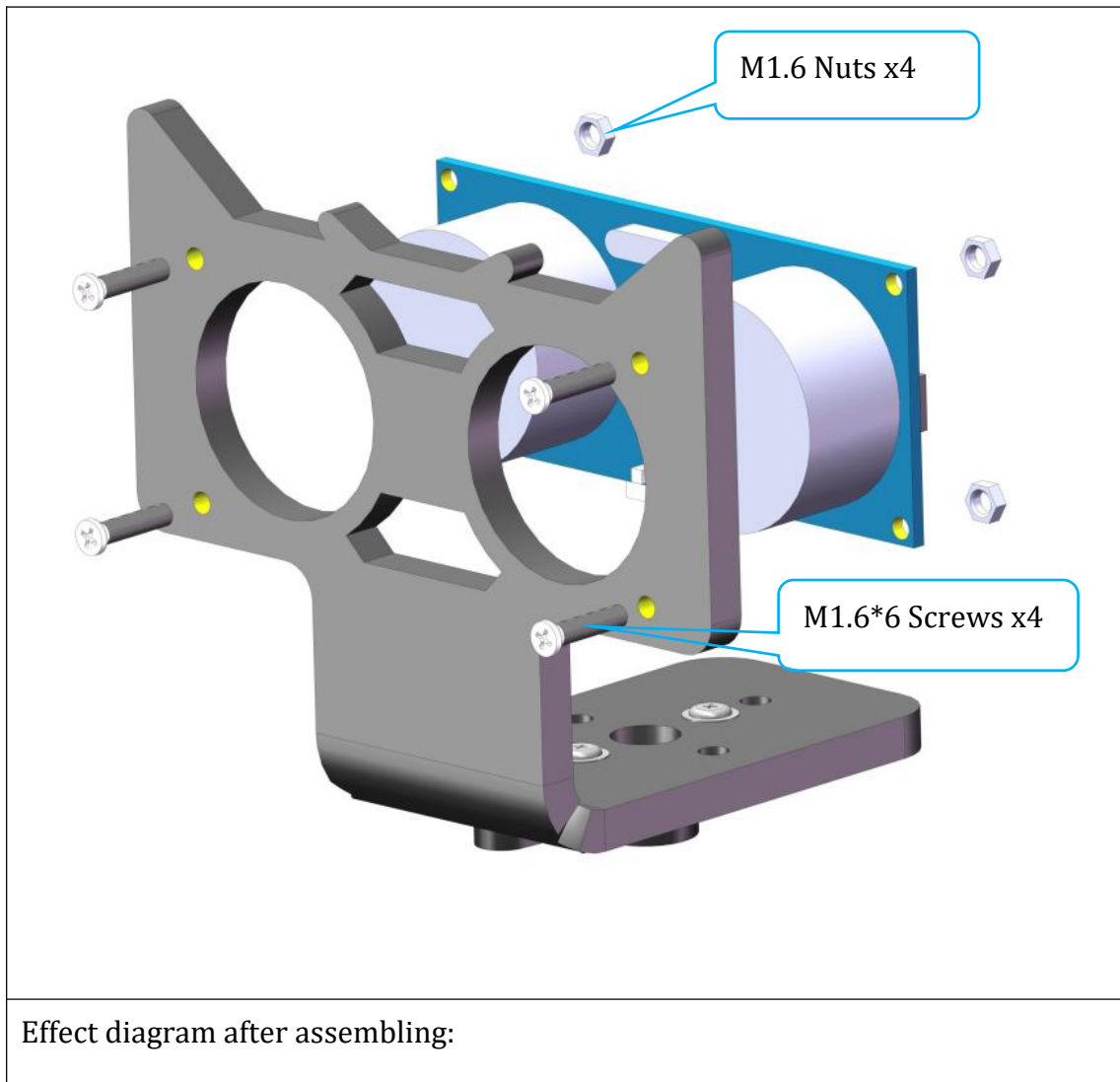
A06

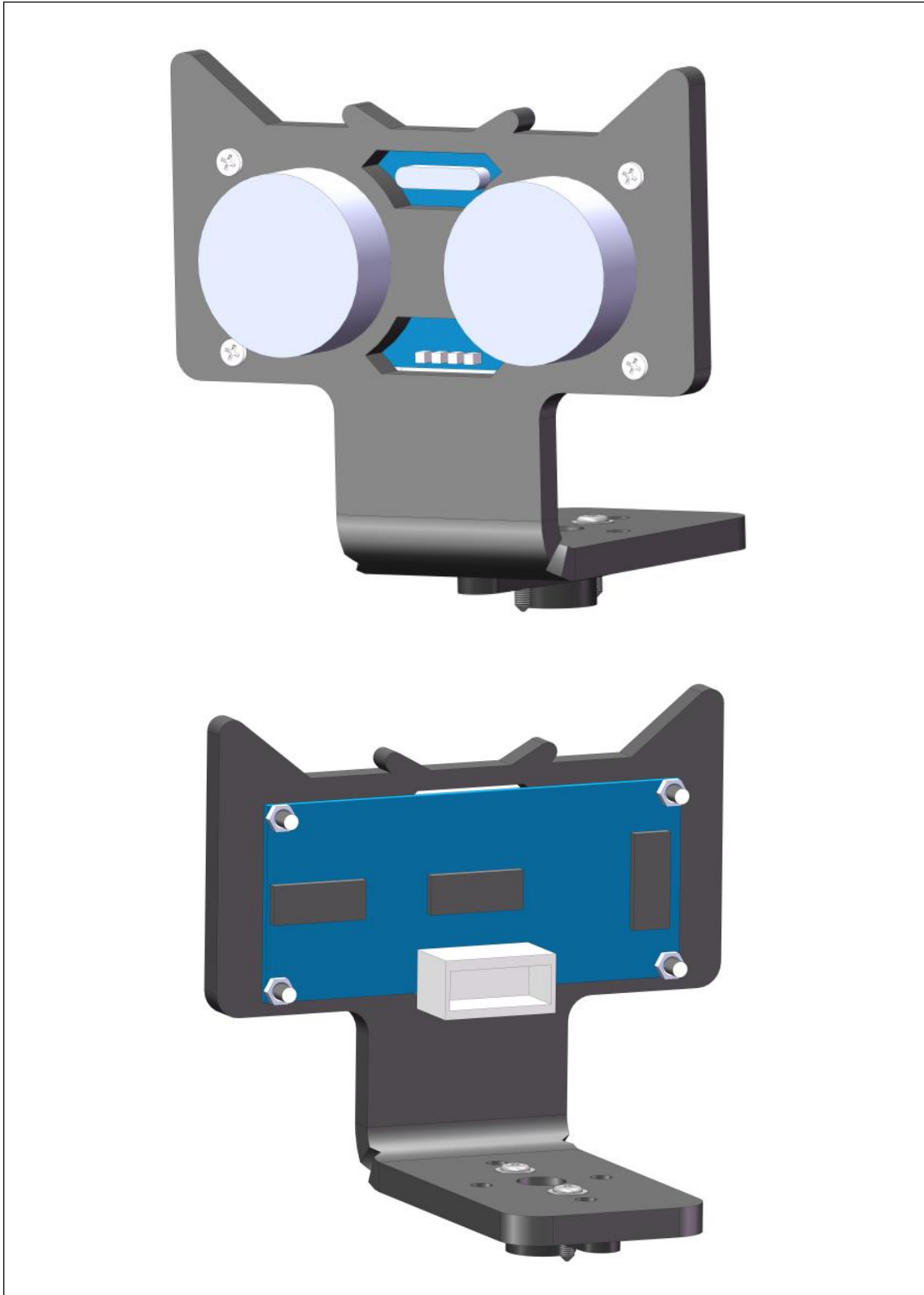


Effect diagram after assembling:

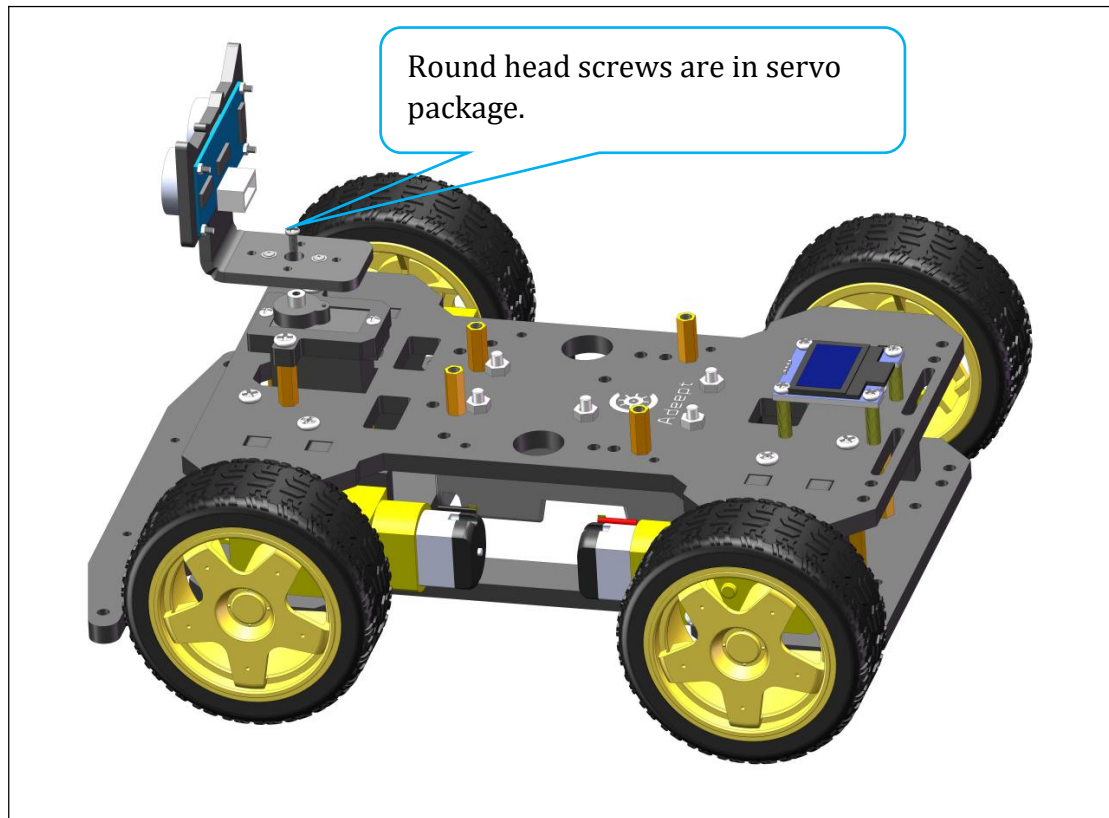


5.2 Use **four M1.6*6 screws** and **four M1.6 nuts** install Ultrasonic Module to A06.

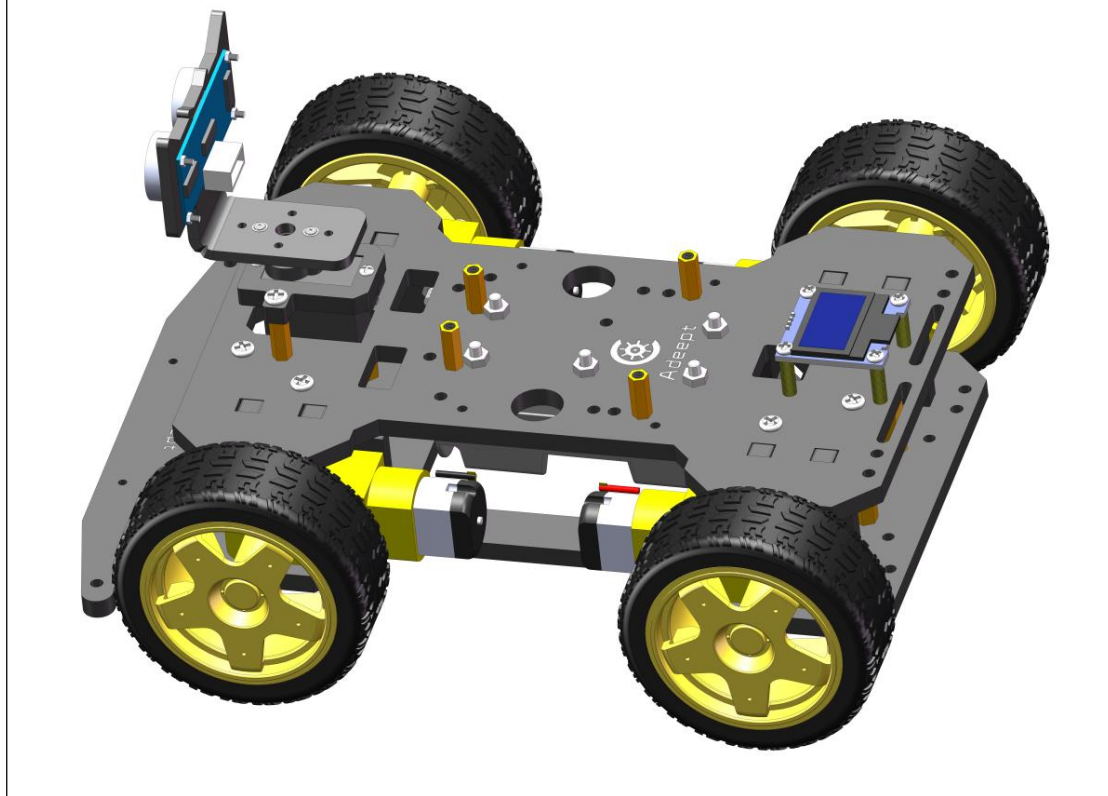




5.3 Use **round head screws** assemble A06 to servo.

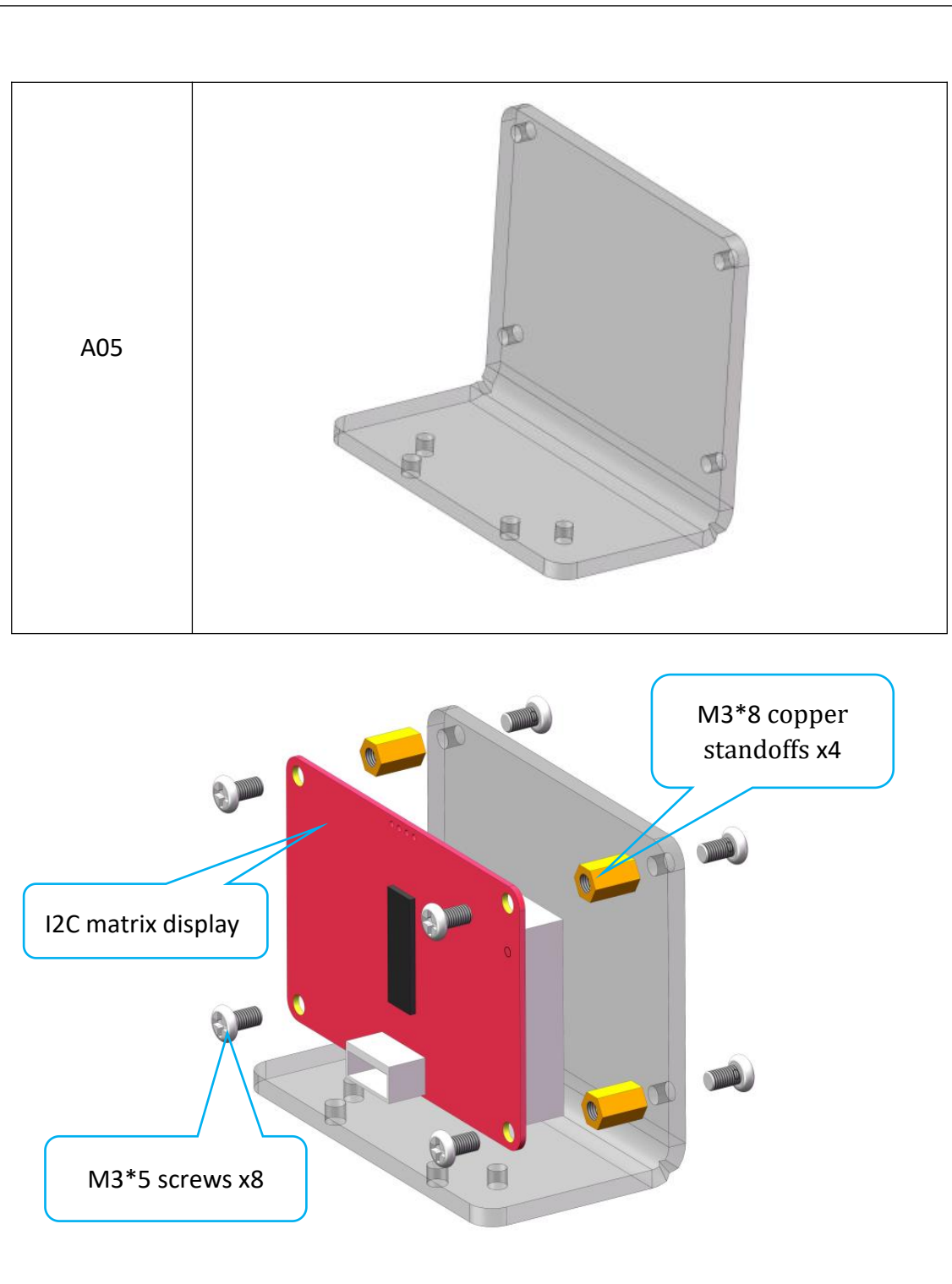


Effect diagram after assembling:

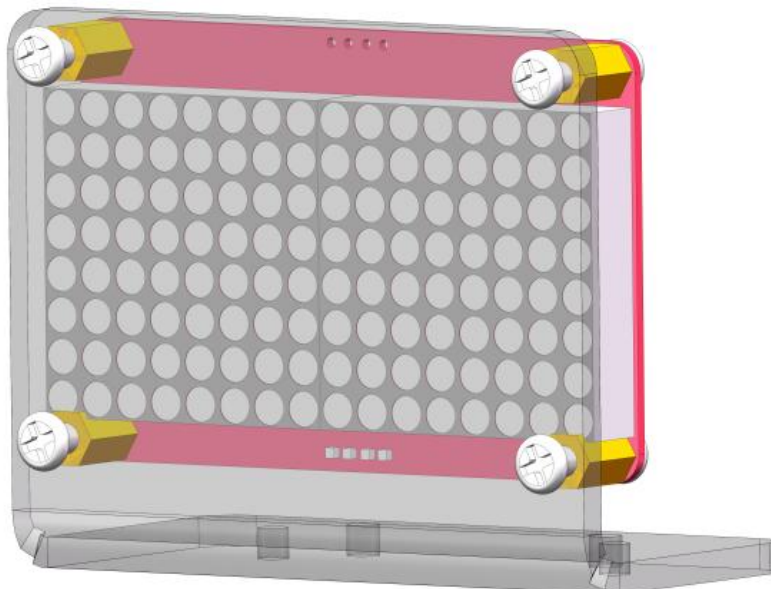
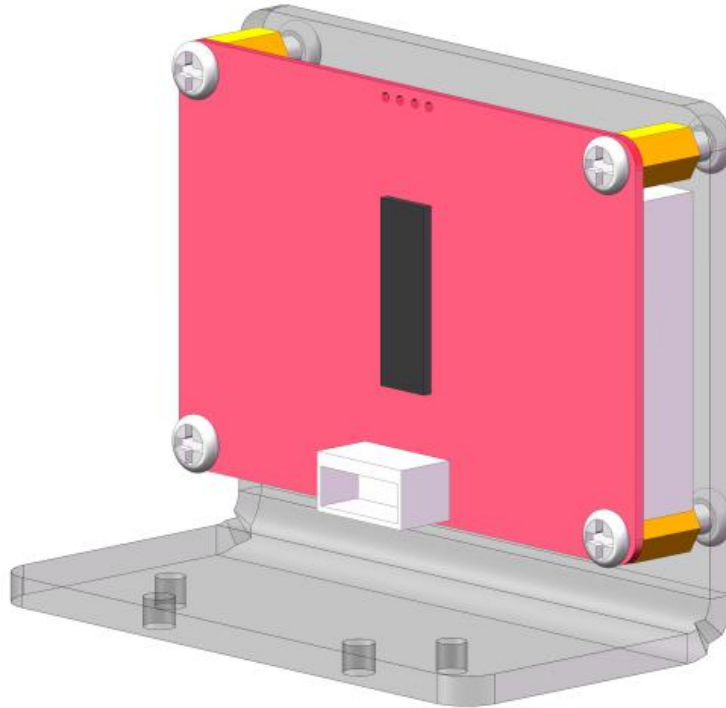


Assemble I2C Matrix Display Module

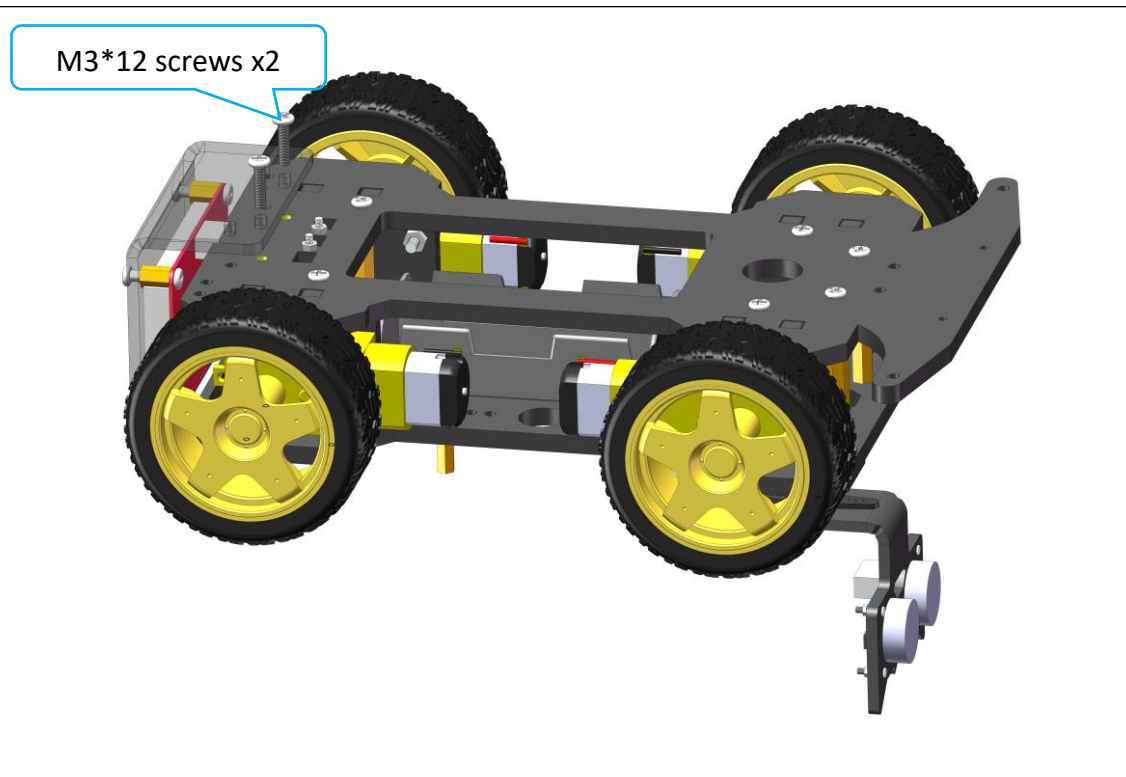
6.1 Use **8 M3*5 screws** and **4 M3*8 copper standoffs**.



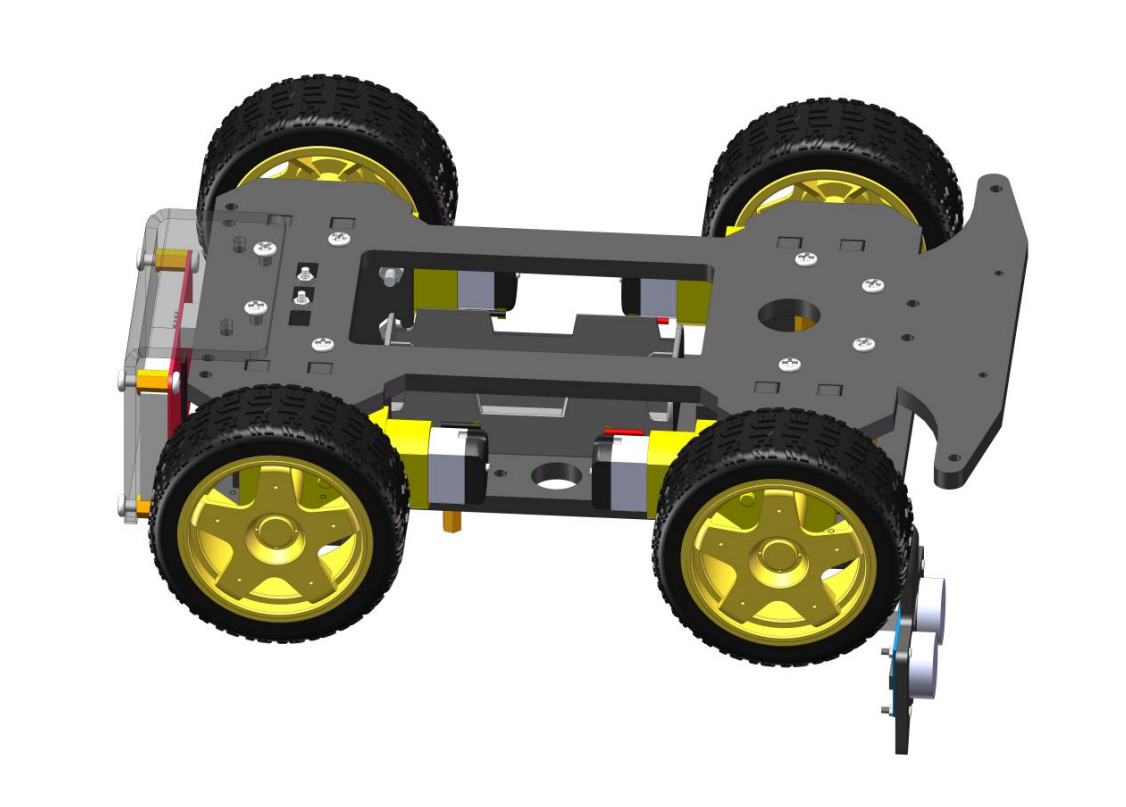
Effect diagram after assembling:



6.2 Use **two M3*12 screws** assemble with A02.

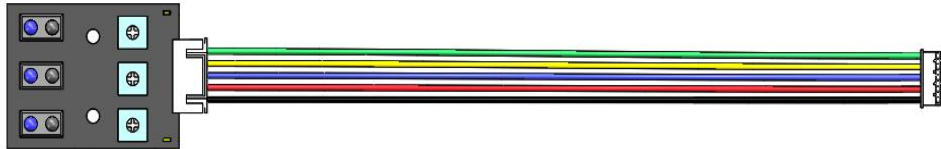


Effect diagram after assembling:



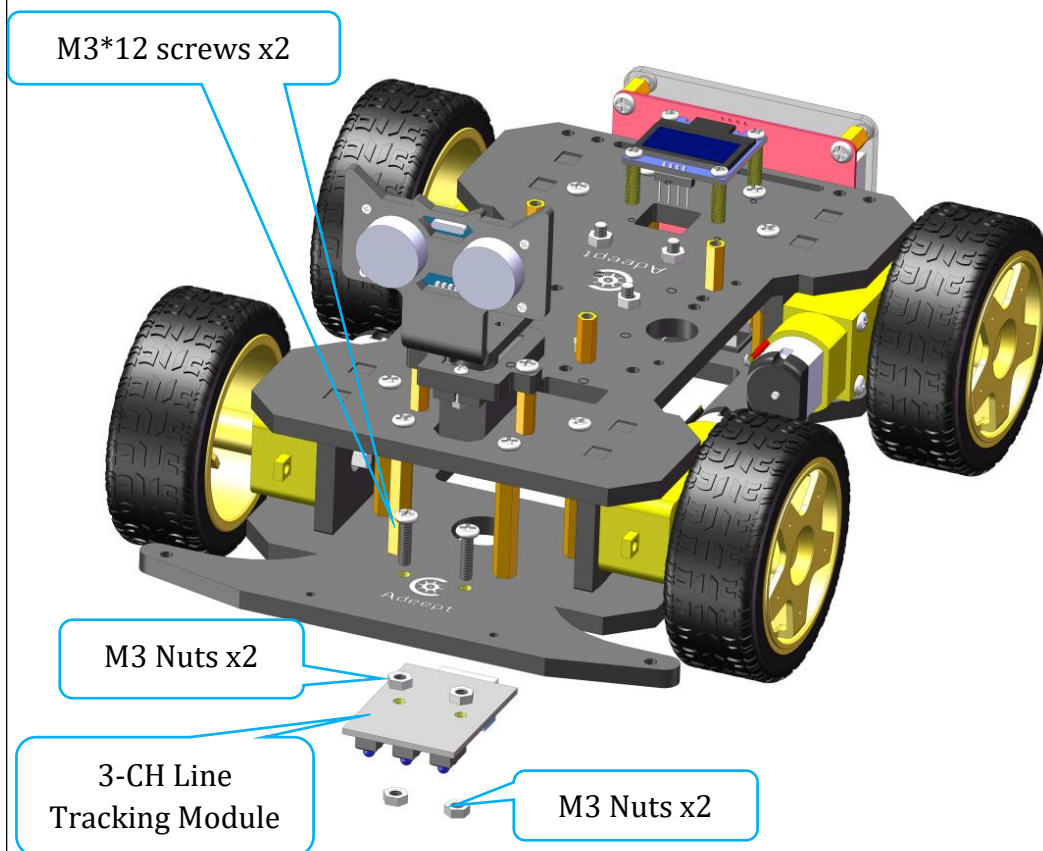
Assemble 3-CH Line Tracking Module

Note: Before installing the 3-CH Line Tracking Module, connect the cables (as shown in the following figure).

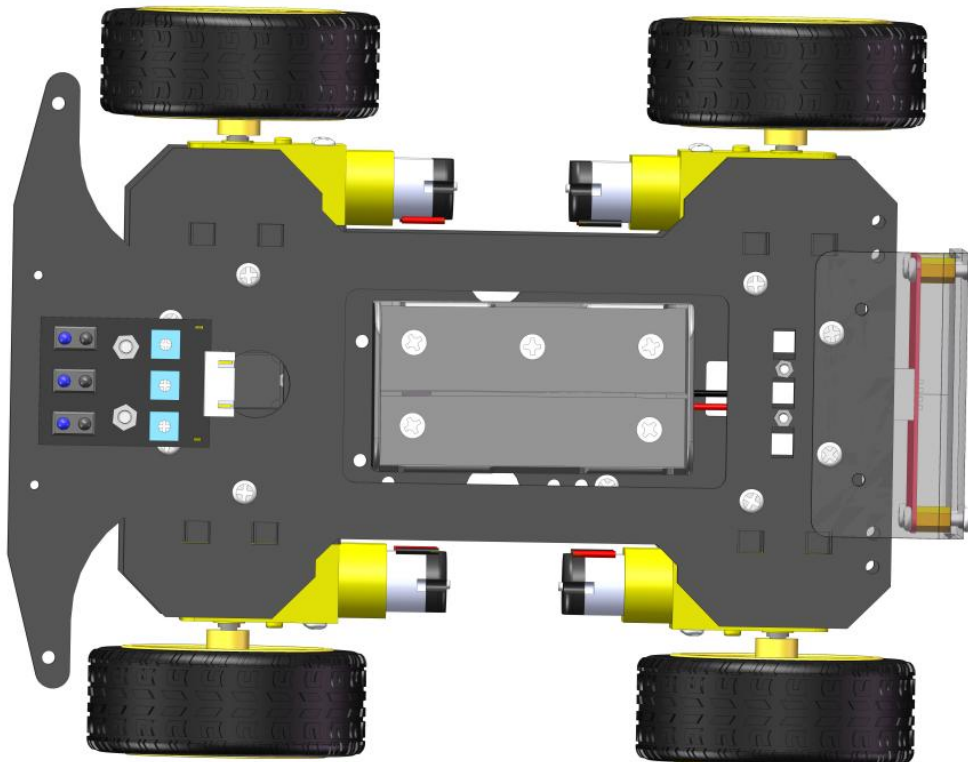
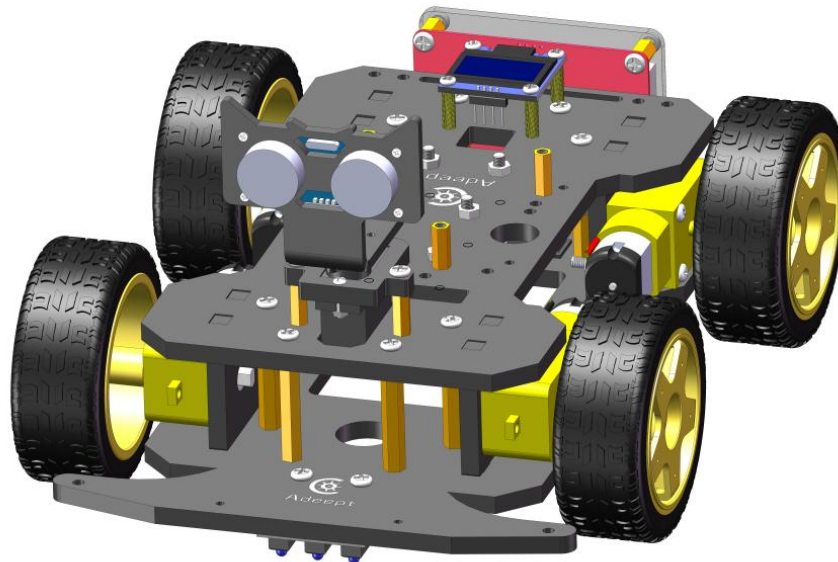


Note: There are two M3 nuts between the 3-CH Line Tracking Module and A11 as the base cushion.

Use **two M3*12 screws** and **four M3 nuts**.

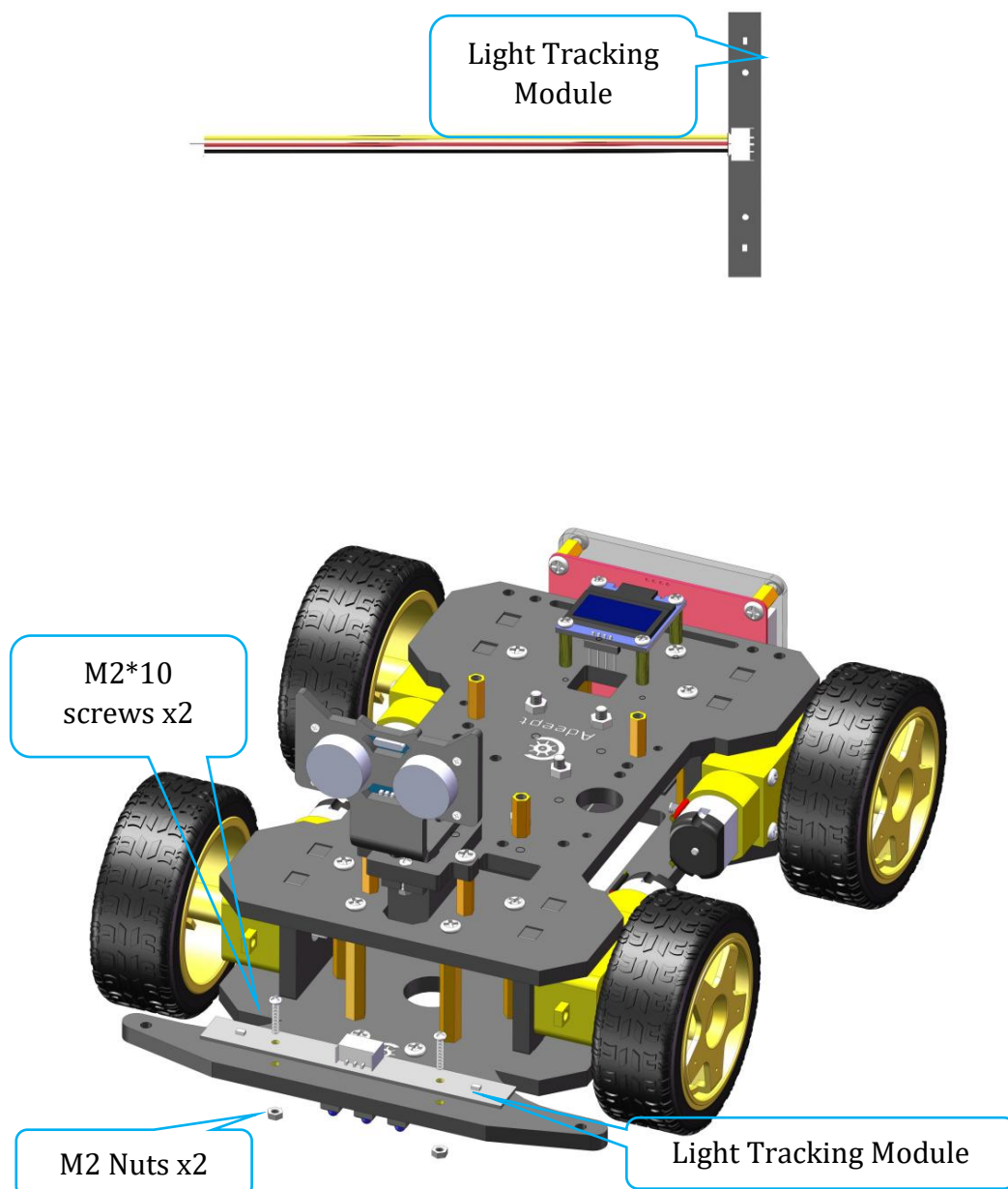


Effect diagram after assembling:

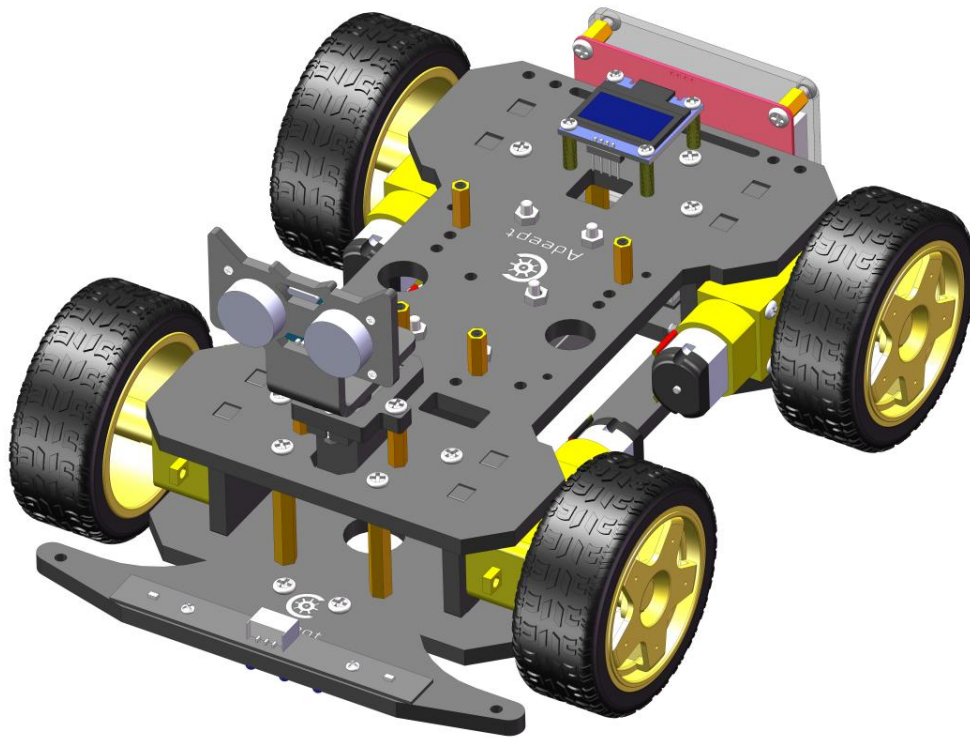


Assemble Light Tracking Module

Note: Before installing the cable patrol module, connect the cable (as shown in the figure below), and the wiring port faces inward. Use two M2*10 screws and two M2 nuts.

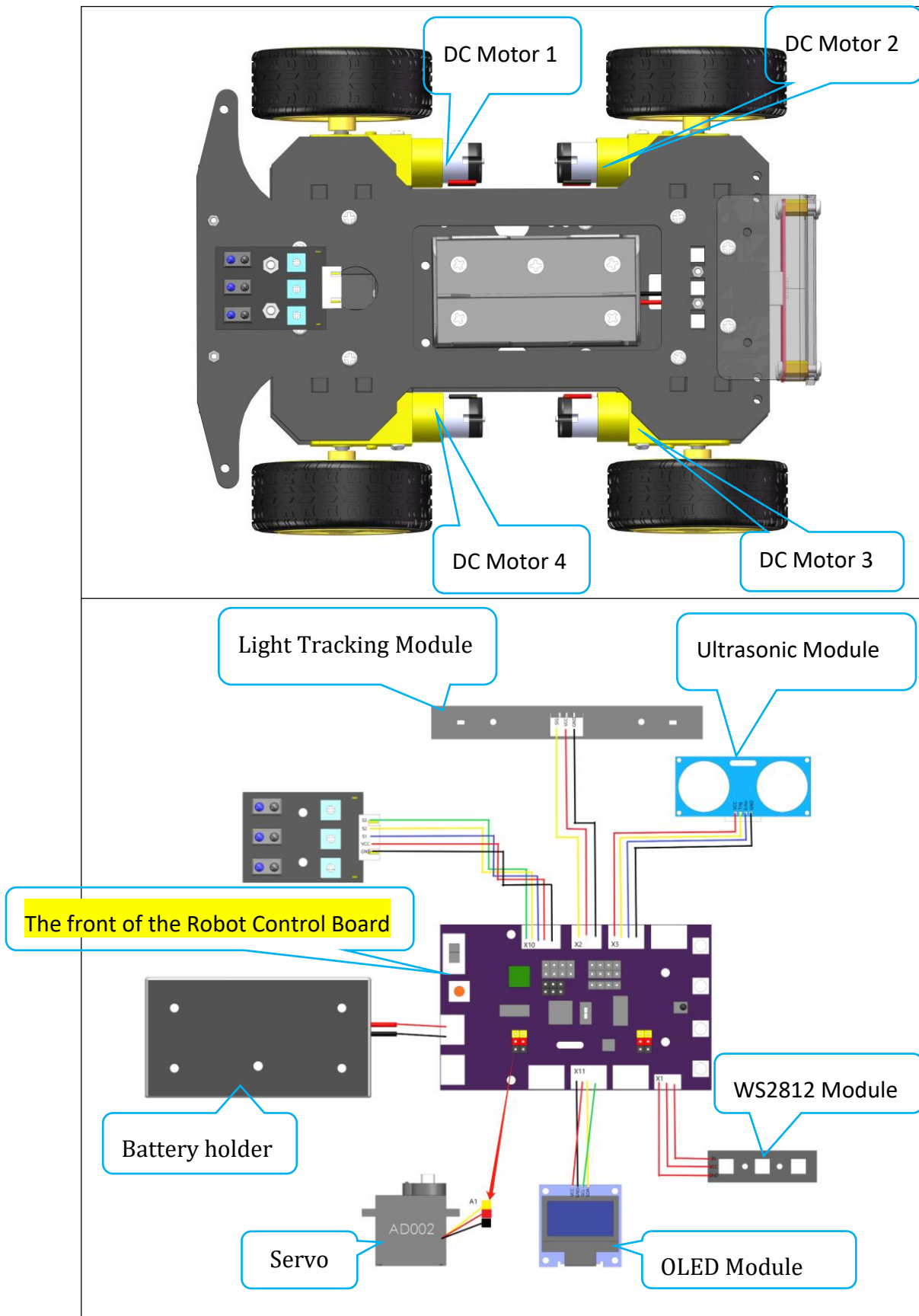


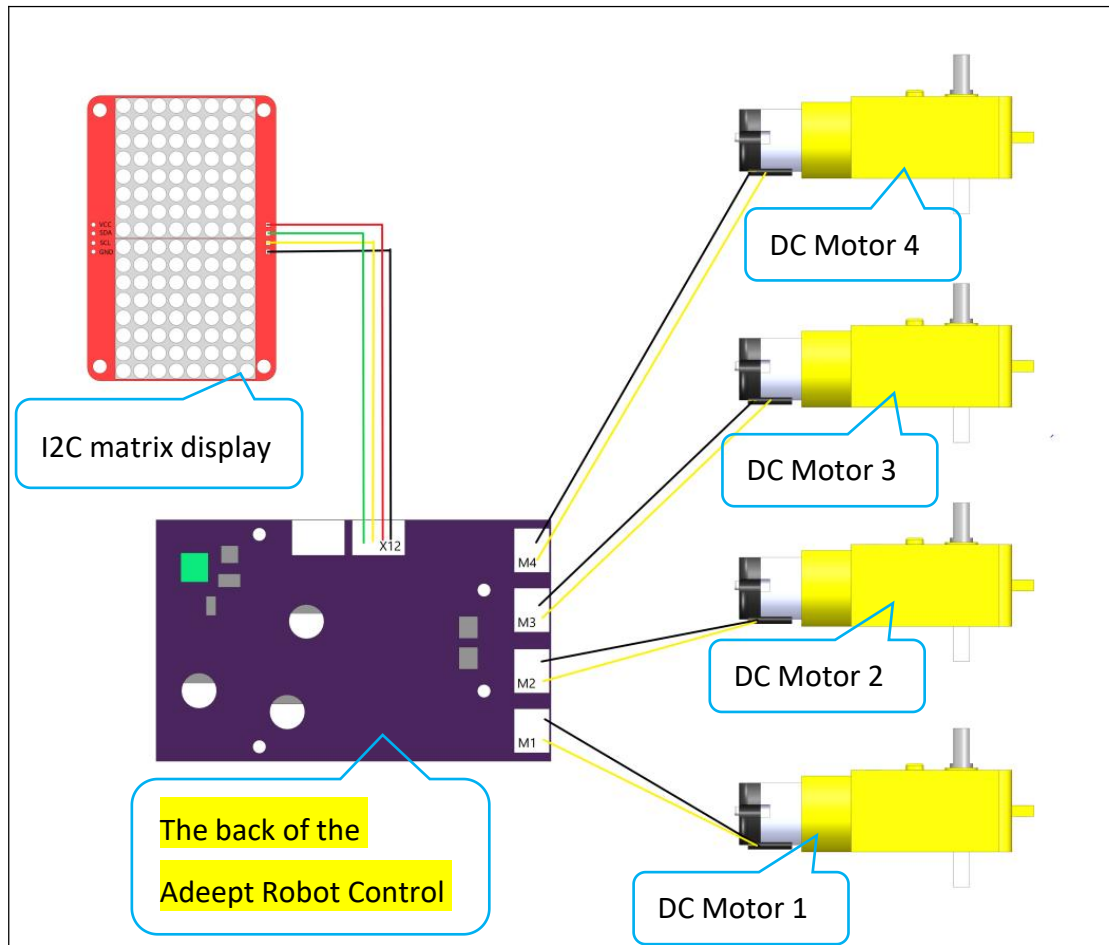
Effect diagram after assembling.



Assemble the Adept Robot Control Board

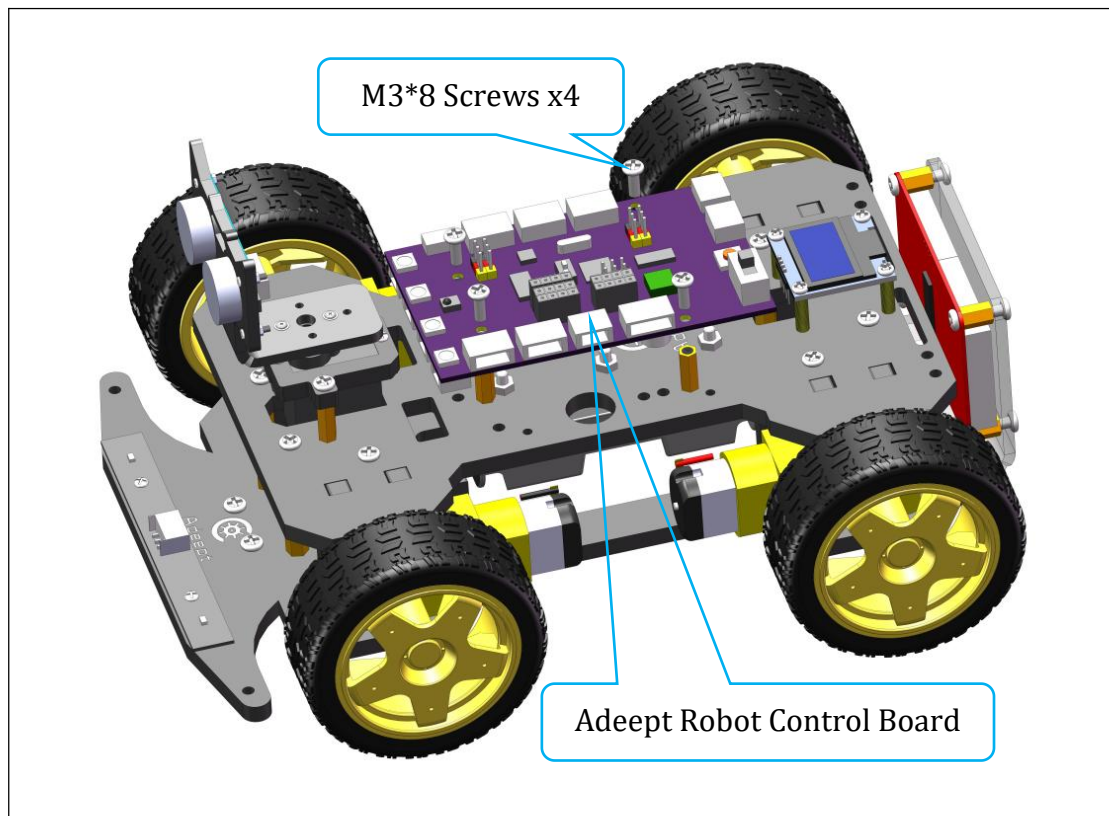
Please connect the circuit correctly before installation. As shown in the following picture.





Assemble the Adept Robot Control Board

Install the Adept Robot Control Board to A01.



Effect diagram after assembling:

