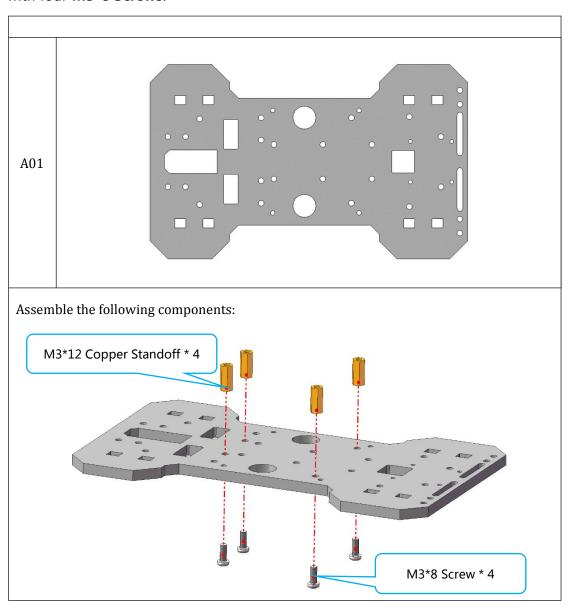
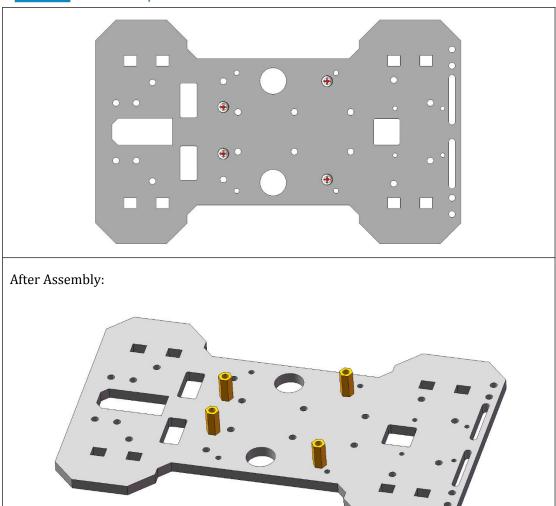
Lesson 4 Assembly of Adeept 4WD Smart Car with Mecanum Wheels

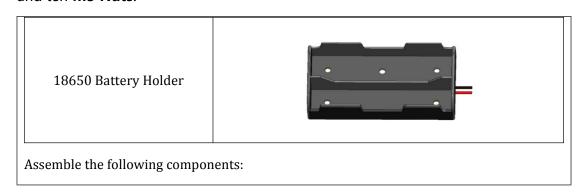
6.1 Assemble the Robot's Body

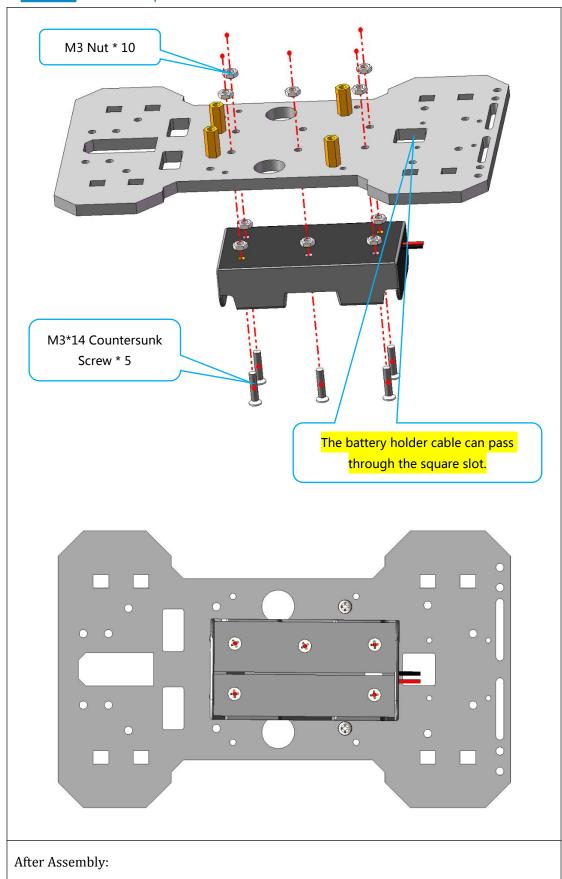
1. Place four M3*12 Copper Standoffs on the holes of part A01, and then fix them with four M3*8 Screws.

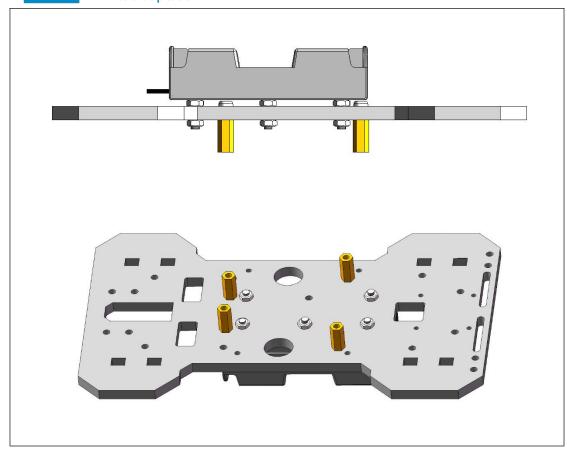




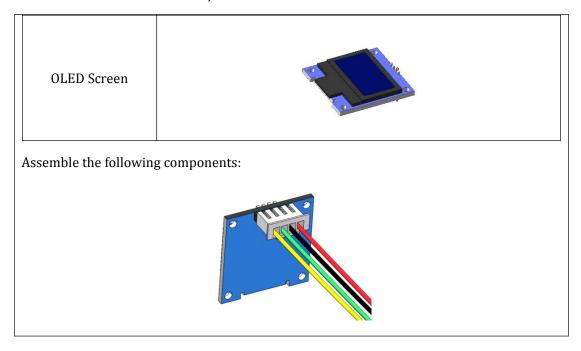
2. Fix the **18650 Battery Holder** to part **A01** with five **M3*14 Countersunk Screws** and ten **M3 Nuts**.

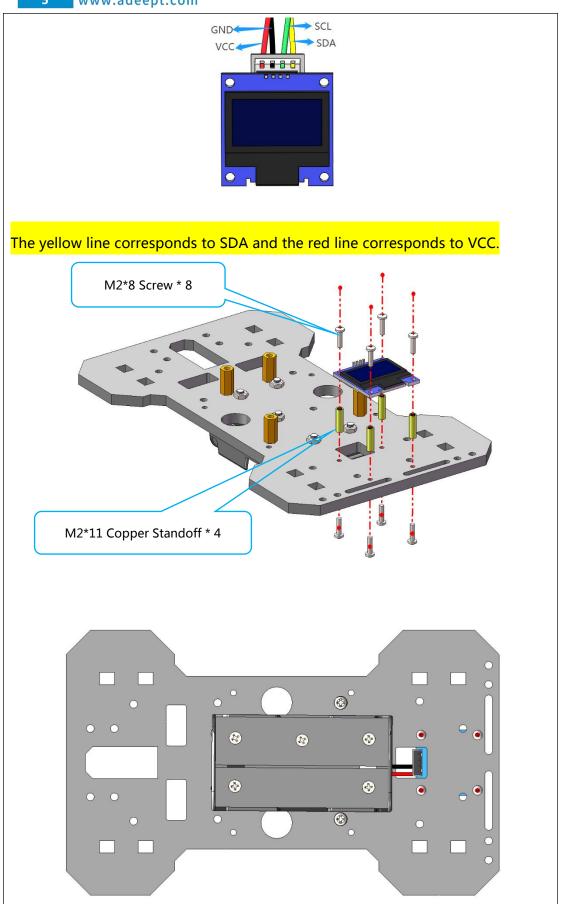


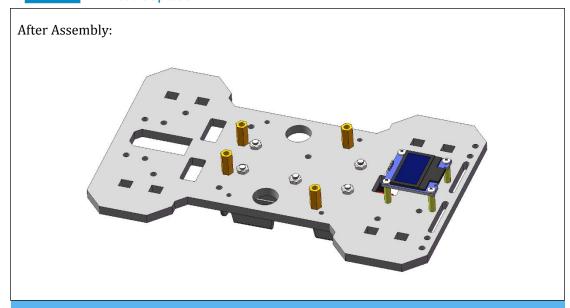




3. Fix four M2*11 Copper Standoffs in place with four M2*8 Screws. Then, fix the OLED Screen with four M2*8 Screws. (Before installing the OLED screen, you need to connect the cables.)



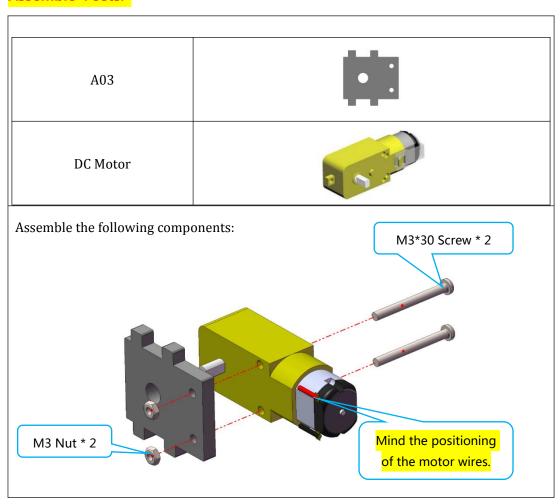


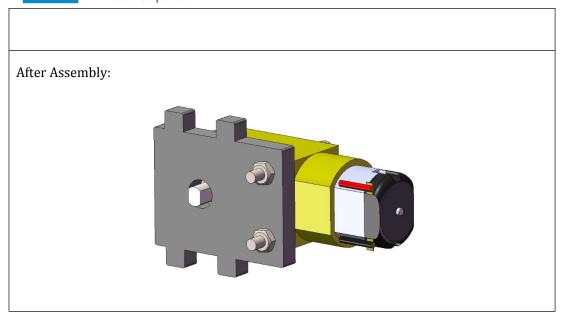


6.2 Assemble the Rear Wheels

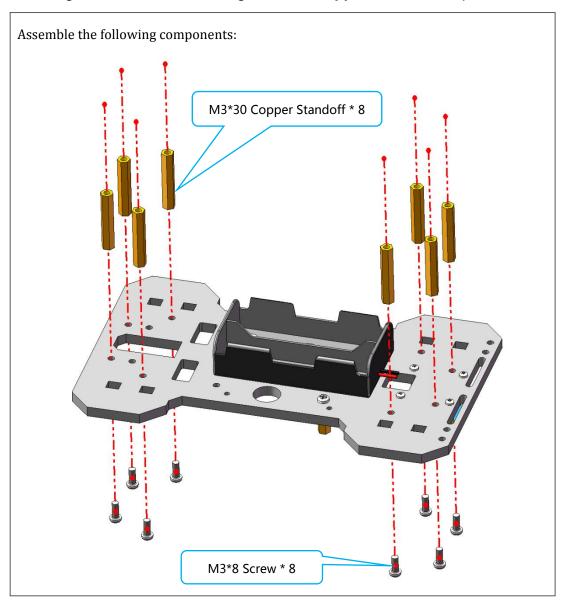
1. Use two M3*30 Screws and two M3 Nuts to fix the DC Motor to part A03.

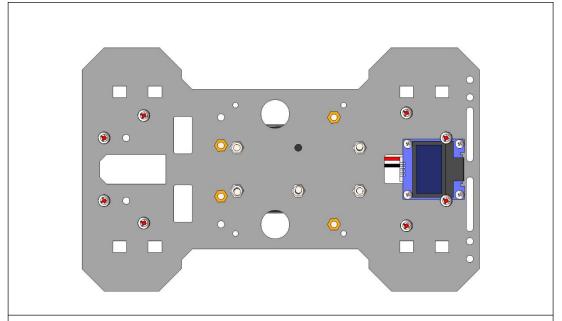
Assemble 4 sets.

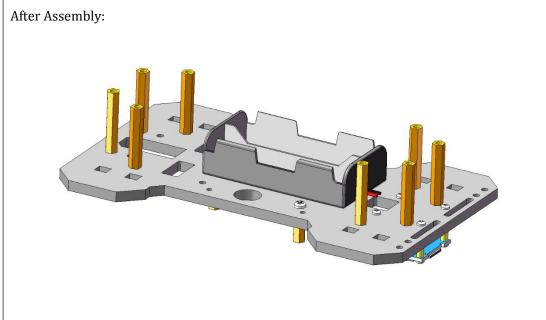




2. Use eight M3*8 Screws to fix eight M3*30 Copper Standoffs to part A01.

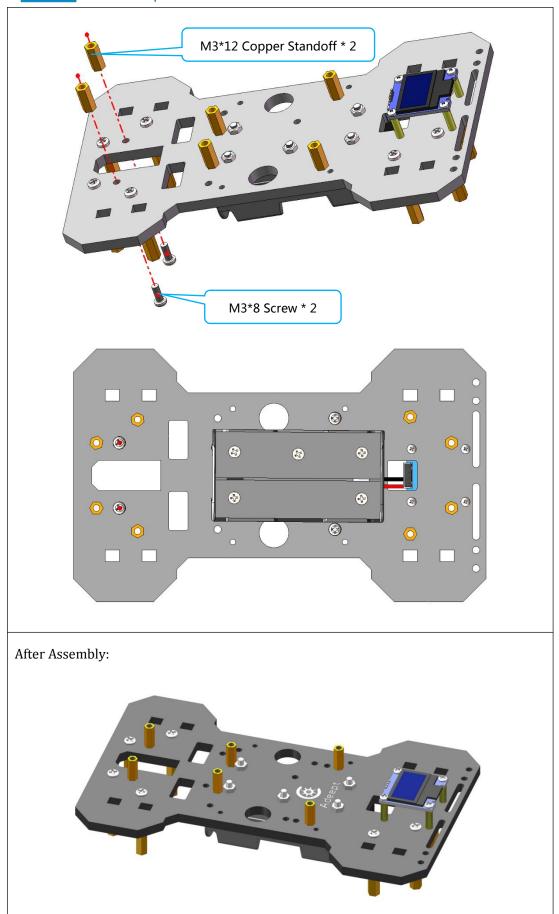




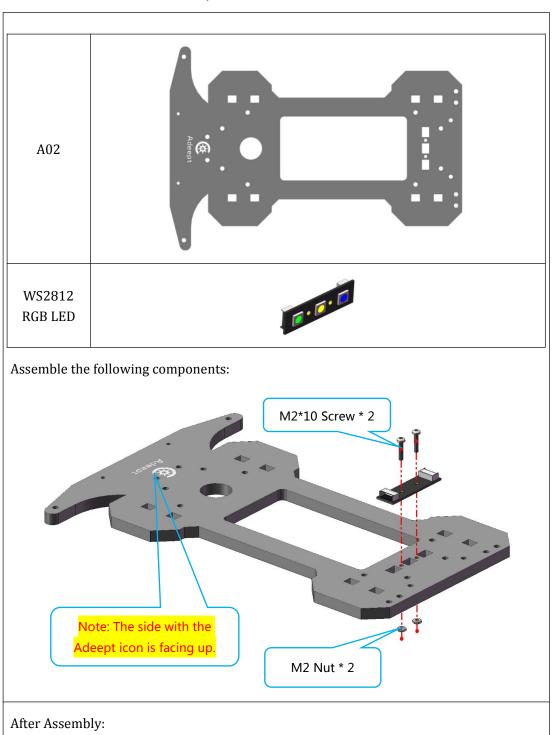


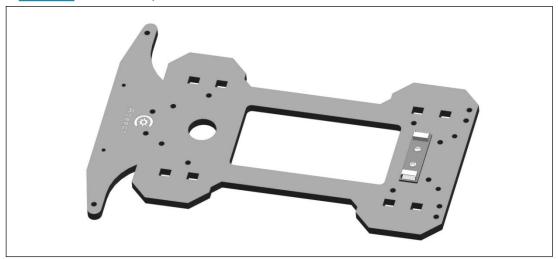
3. Use two M3*8 Screws to fix two M3*12 Copper Standoffs to part A01

Assemble the following components:

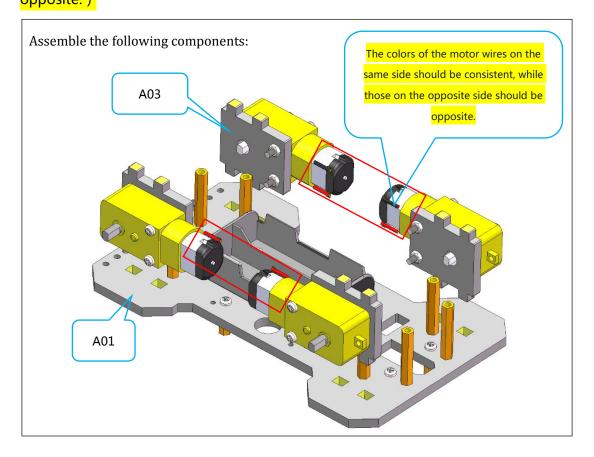


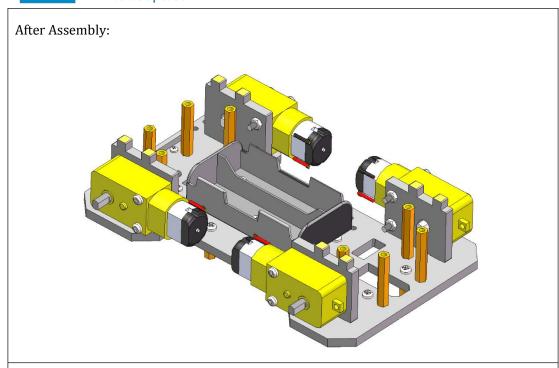
4. Fix the WS2812 RGB LED to part A02 with two M2*10 Screws and two M2 Nuts.

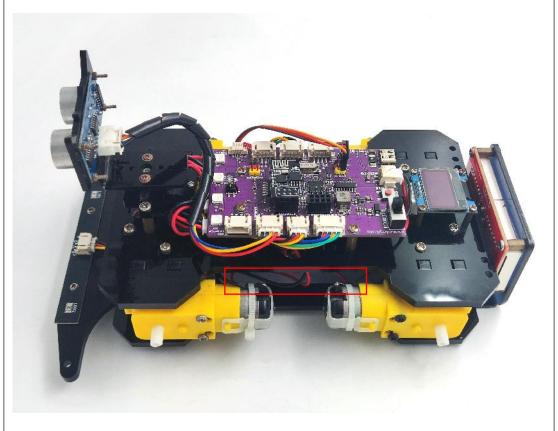


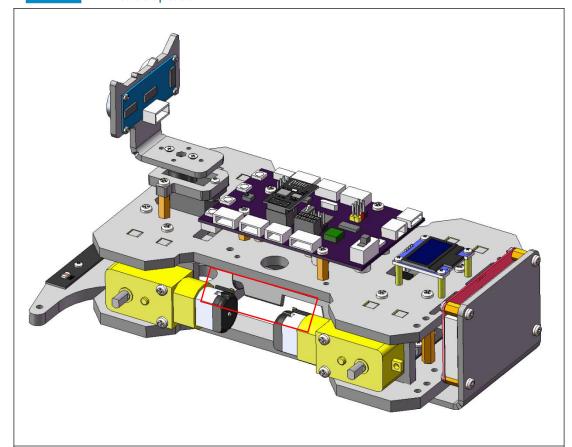


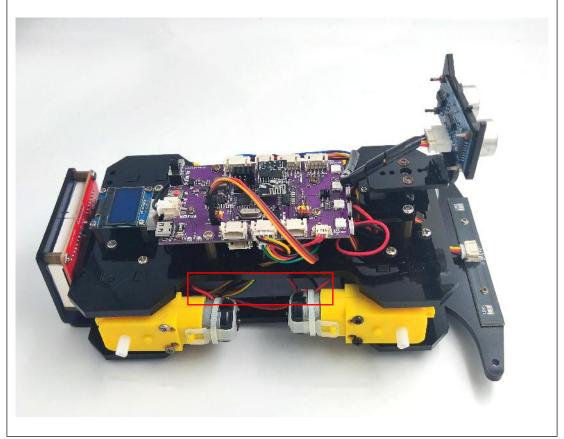
5. Fix the assembled part **A03** onto part **A01**, ensuring that the slots of all components are correctly aligned. Due to the opposite polarity of the left and right motors, during installation, it is necessary to ensure that the colors of the motor wires on the same side are consistent, while those on the opposite side are opposite.)

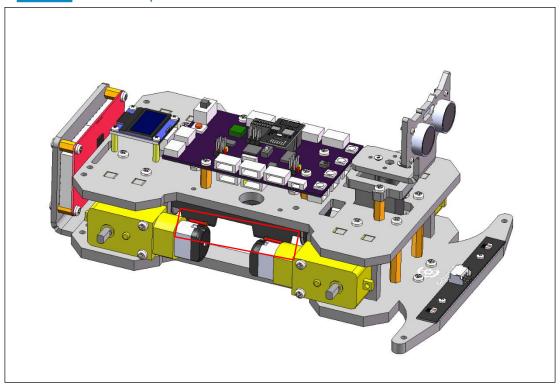




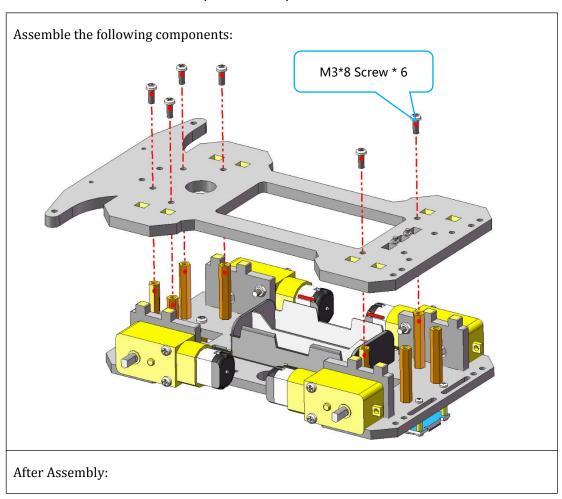




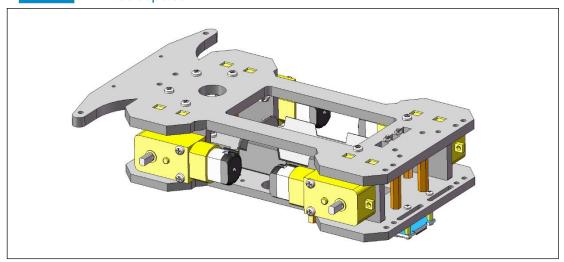




6. Use six M3*8 Screws to fix part A02 to part A01.

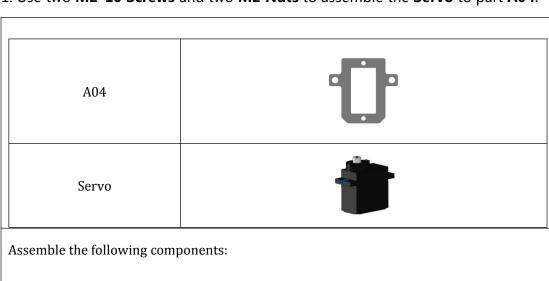


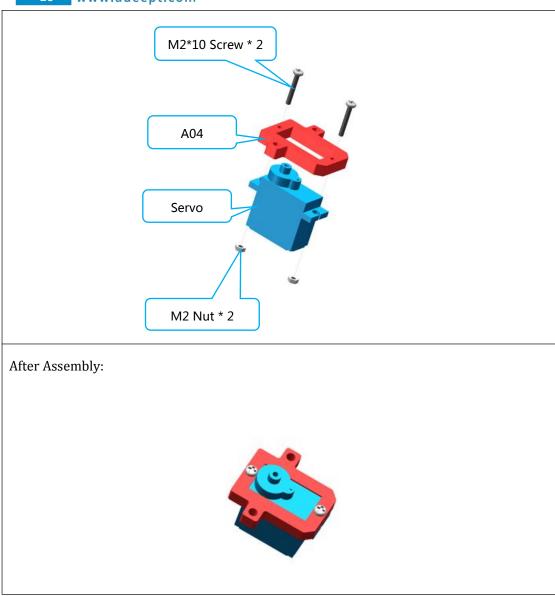
15 www.adeept.com



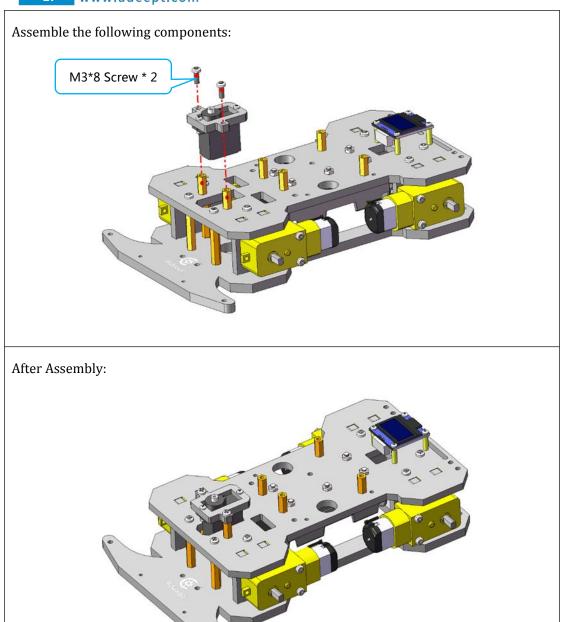
6.3 Assemble the Robot's Head

1. Use two M2*10 Screws and two M2 Nuts to assemble the Servo to part A04.

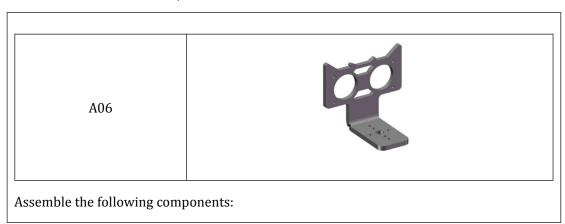




2. Use two M3*8 Screws to fix the Servo.

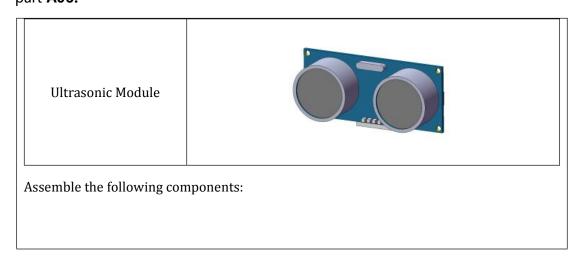


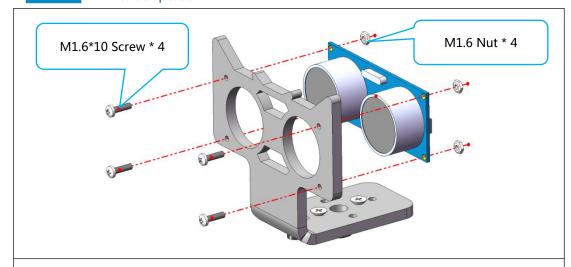
3. Fix the Rocker Arm to part A06.





4. Use four **M1.6*10 Screws** and four **M1.6 Nuts** to fix the **Ultrasonic Module** to part **A06.**



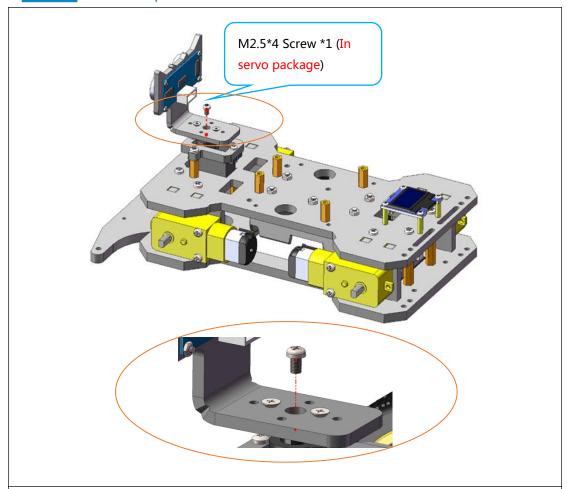


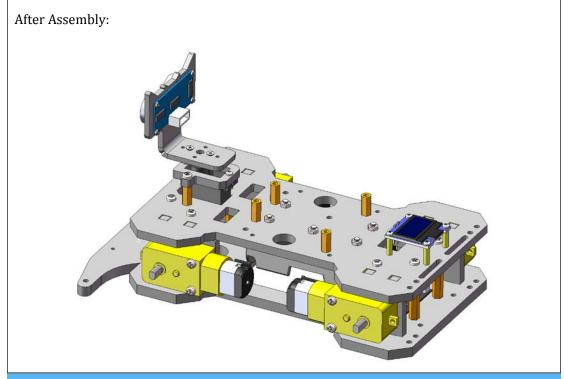
After Assembly:



5. Fix part **A06** to the **Servo.**

Assemble the following components:

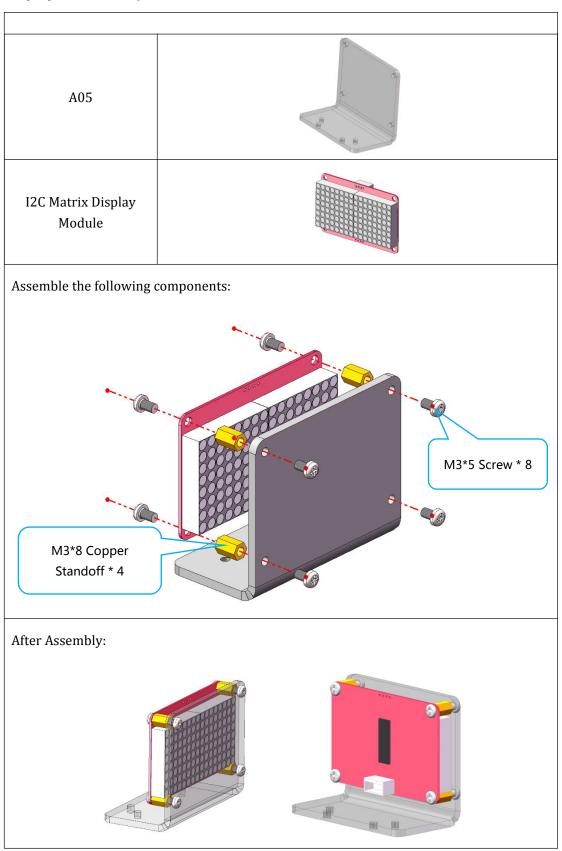




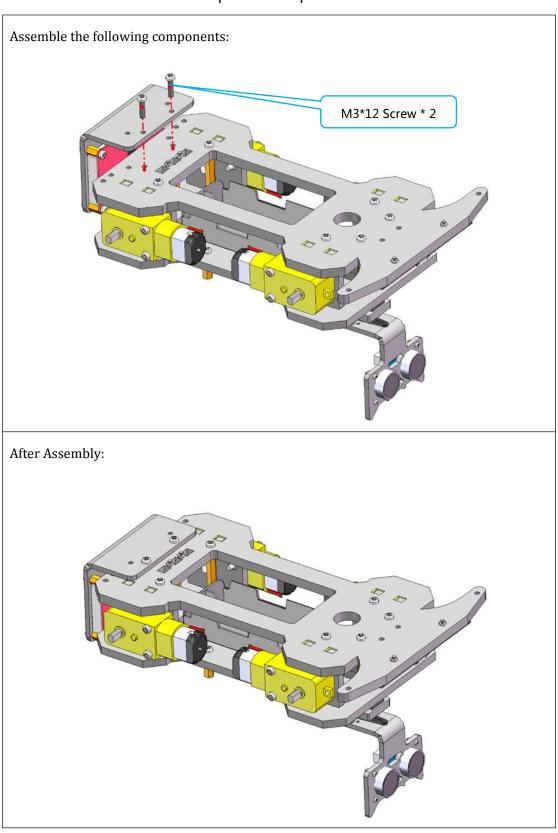
6.4 Assemble the Robot's Modules

1. Use eight M3*5 Screws and four M3*8 Copper Standoffs to fix the I2C Matrix

Display Module to part **A05**.



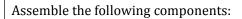
2. Use two M3*12 Screws to fix part A05 to part A02.

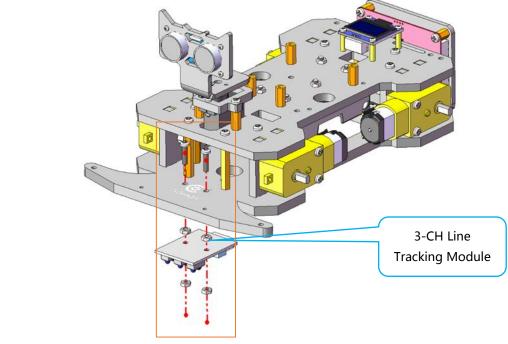


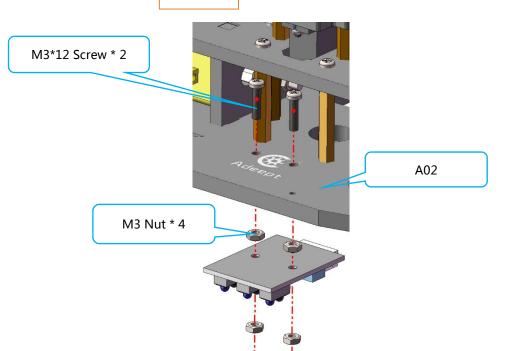
3. Use two M3*12 Screws and four M3 Nuts to fix the 3-CH Line Tracking Module to part A02.

3-CH Line Tracking Module

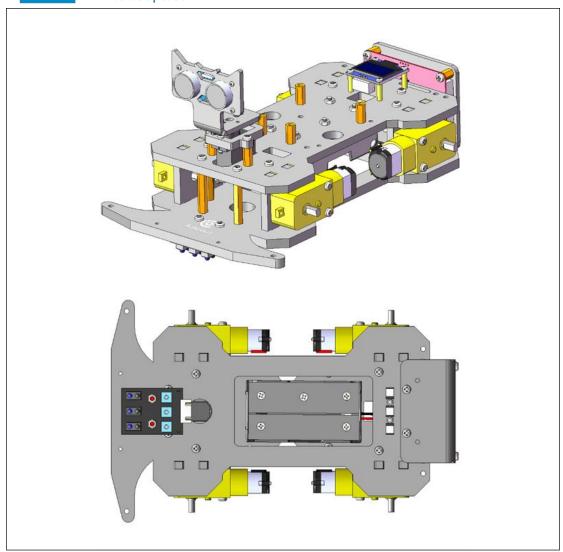








After Assembly:

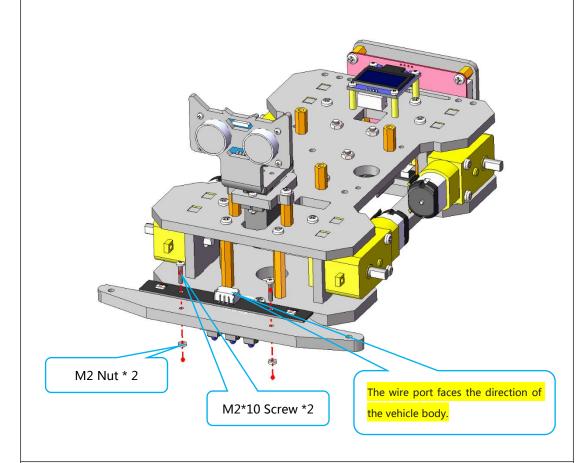


4. Use two M2*10 Screws and two M2 Nuts to fix the Light Tracking Module to part A02.

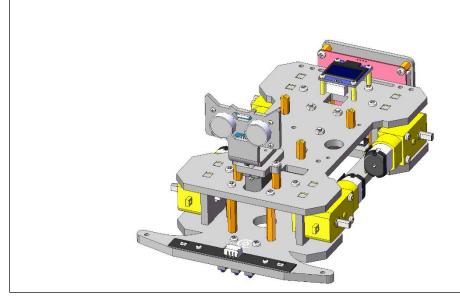
Light Tracking Module



Assemble the following components:

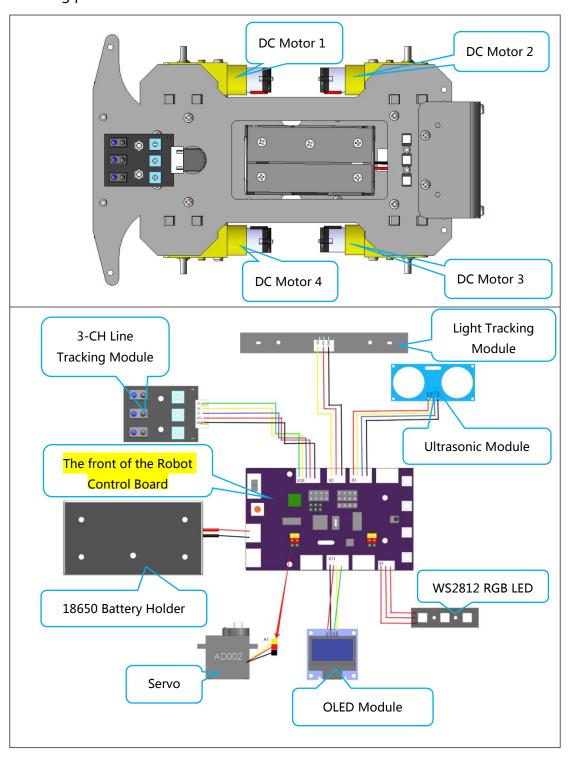


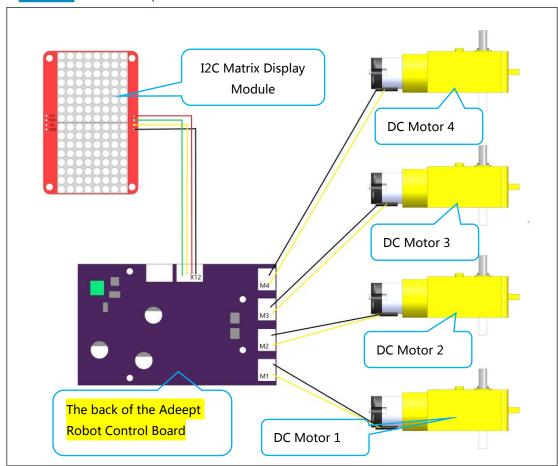
After Assembly:



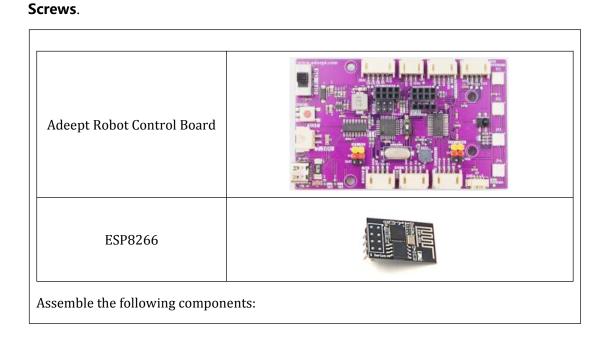
6.5 Assembly the Adeept Robot Control Board

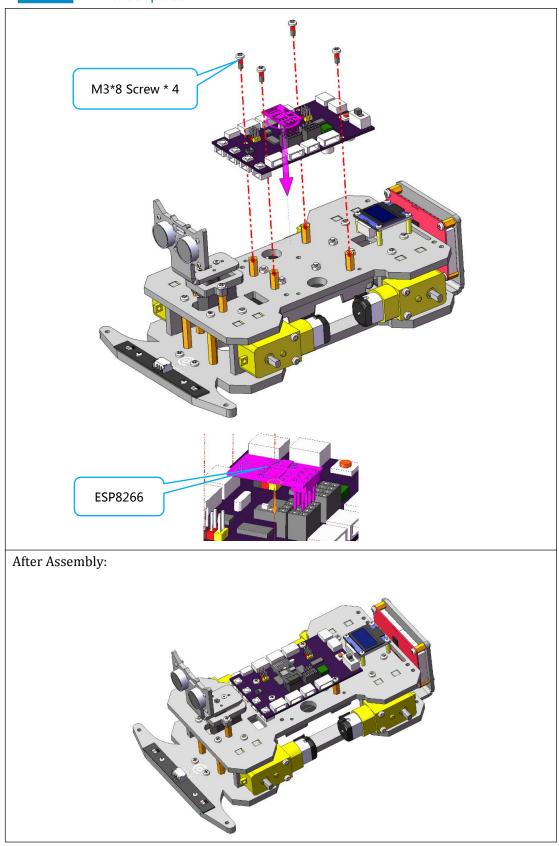
1. Please connect the circuit correctly before installation. As is shown in the following picture.



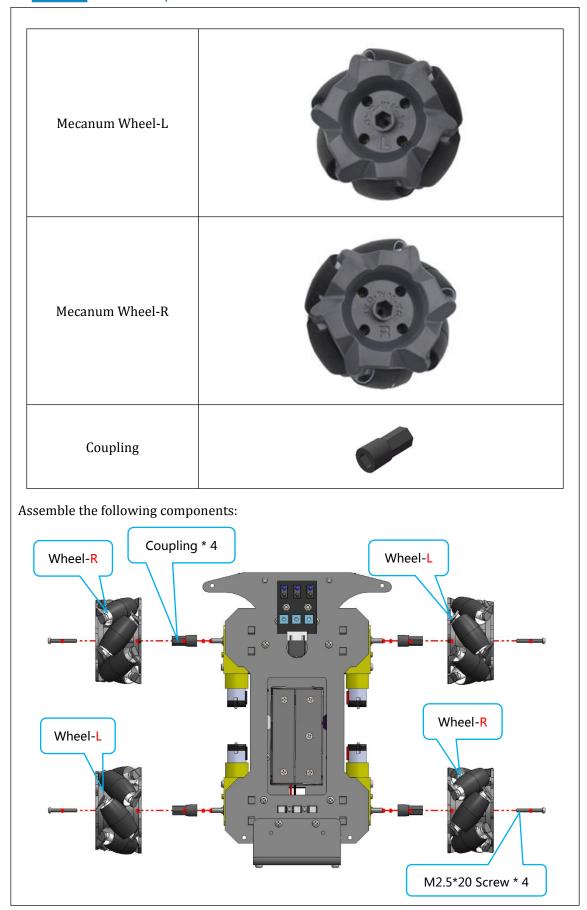


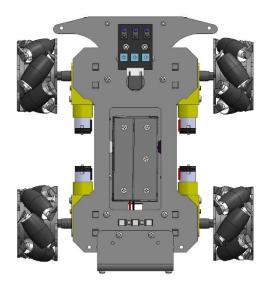
2. Fix the **Adeept Robot Control Board** and **ESP8266** to part **A01** with four **M3*8**

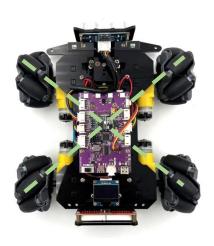




3. Install four **Mecanum Wheels** onto the motor shaft with four **Coupling** and four **M2.5*20 Screws.**







X



0

Note: The Mecanum wheel car adopts the O-rectangle assembly method. The actual wheel is "X" when viewed from above, and is "O" when it is actually in contact with the ground. (looking up from below the Mecanum wheel car)

After Assembly:

