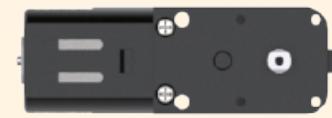


Packing List



Encoder motor * 2



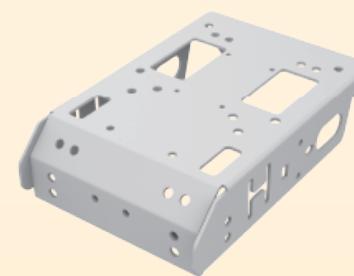
18650 Lipo battery * 2



CoreX controller * 1



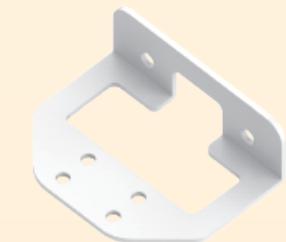
USB cable * 1



Car bracket * 1



Battery holder case * 1



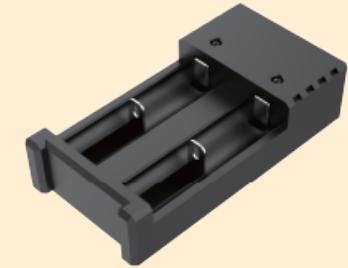
Glowy ultrasonic sensor bracket * 1



Screwdriver * 1



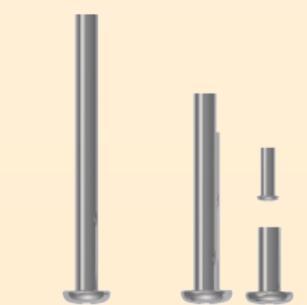
Glowy ultrasonic sensor * 1



Charger * 1



Castor wheel * 1



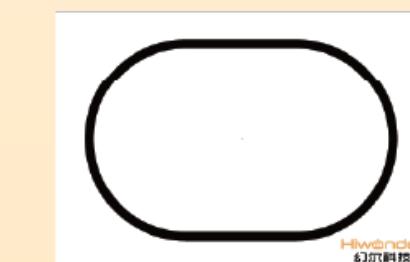
Accessory bag * 1



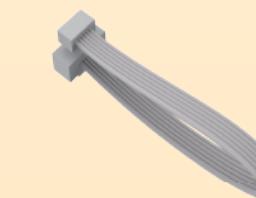
4-ch line follower * 1



Tire * 2



Line map * 1



Motor wire * 2



Wheel rim * 2



4PIN wire * 3

Introduction

ExoNaut is an smart robot car supporting both graphical and Arduino programming. It is powered by CoreX controller, and equipped with advanced features such as encoder motor, 4-ch line follower, and glowy ultrasonic sensor.

These features enable various applications, including line following, obstacle avoidance, etc. Combined with a series of sensors and modules, ExoNaut can perform even more advanced tasks, enabling unique learning experiences for students and teachers alike.

Important Links



www.spacetrek.com



Tutorials



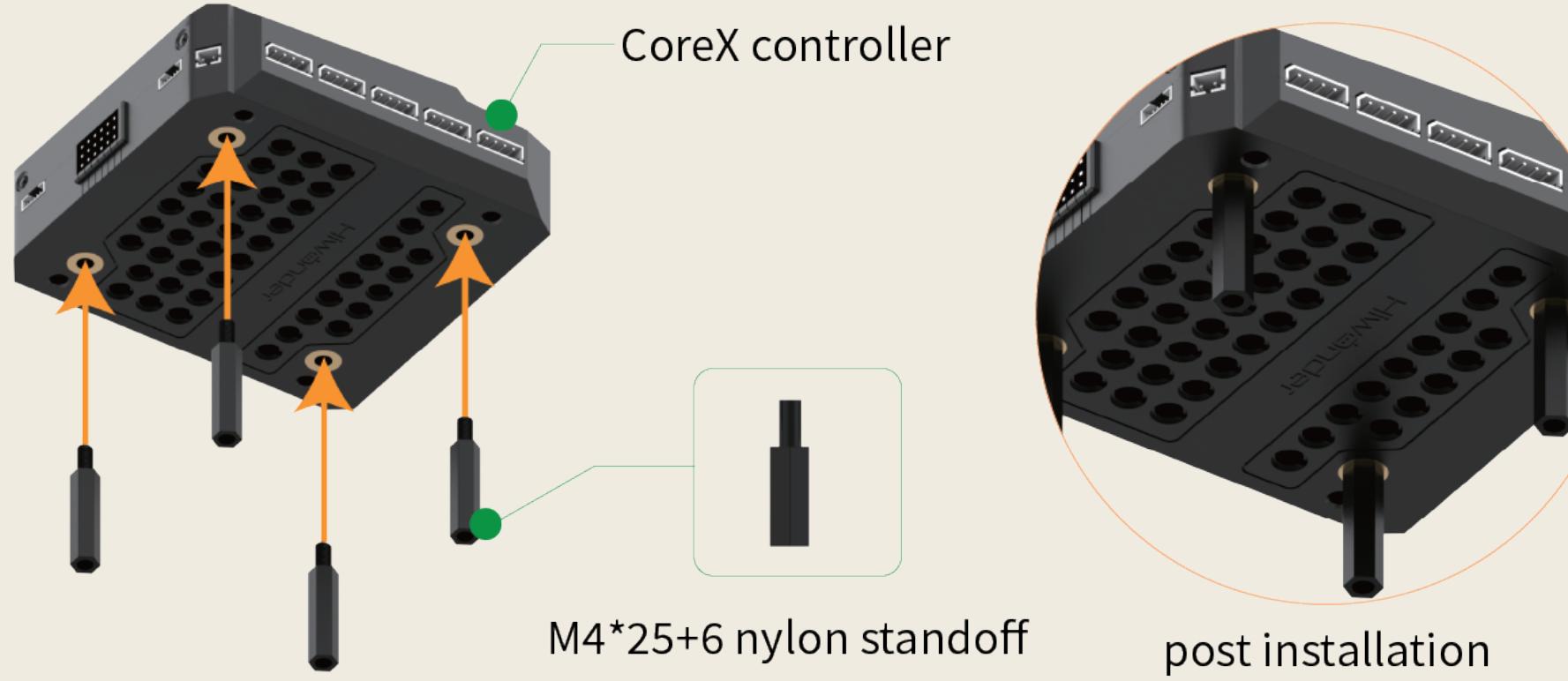
Videos

Battery Safety - Guide

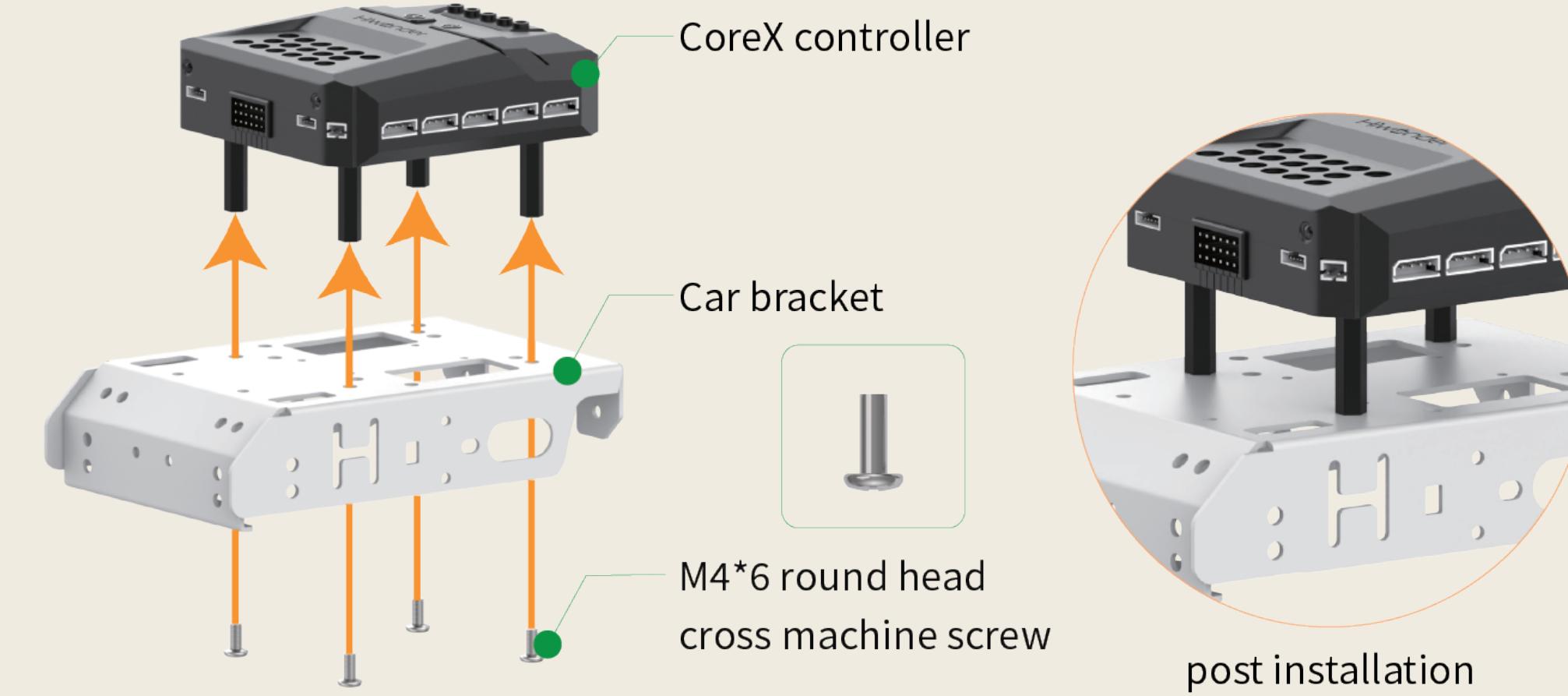
- For safety during delivery, the LiPo battery is not fully charged. Before first use, please fully charge the battery, making sure the positive and negative terminals are correctly connected.
 - Connect one end of the USB cable to the charger's USB port, and the other end to a computer or 5V charger to charge the battery.
 - Indicator on charger changes red during charging. It turns green once fully charged. Charging can take 2 hours or more.
 - Unplug USB cable in time to avoid overcharging.
 - Over-discharging the battery can make it unusable and it might fail to charge. If robot won't be used for a long period of time, please fully charge the battery before storing it.
 - To prevent overheating, fire, and damage that can impair functionality, keep the battery away from high temperatures and liquids.
-

Assembly Instructions

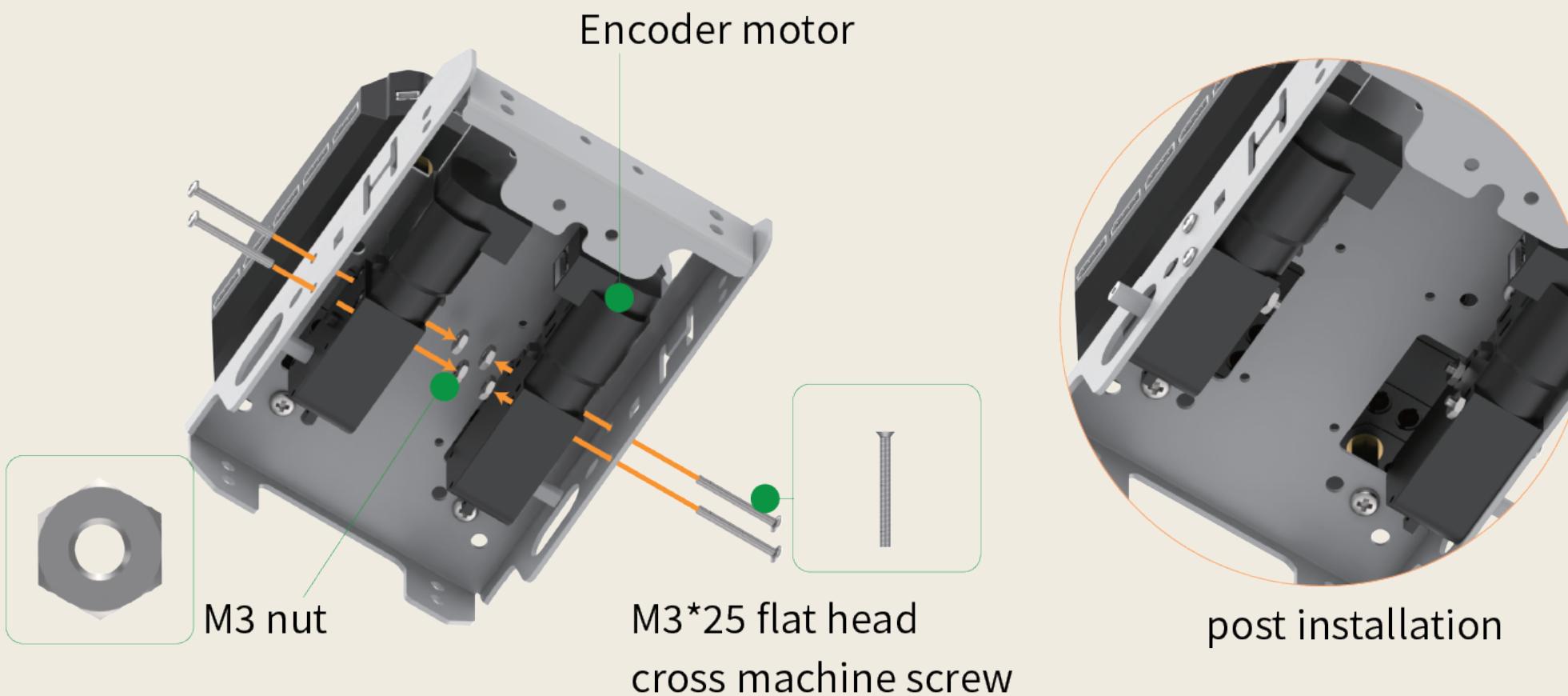
1 Install nylon stand-offs onto CoreX controller



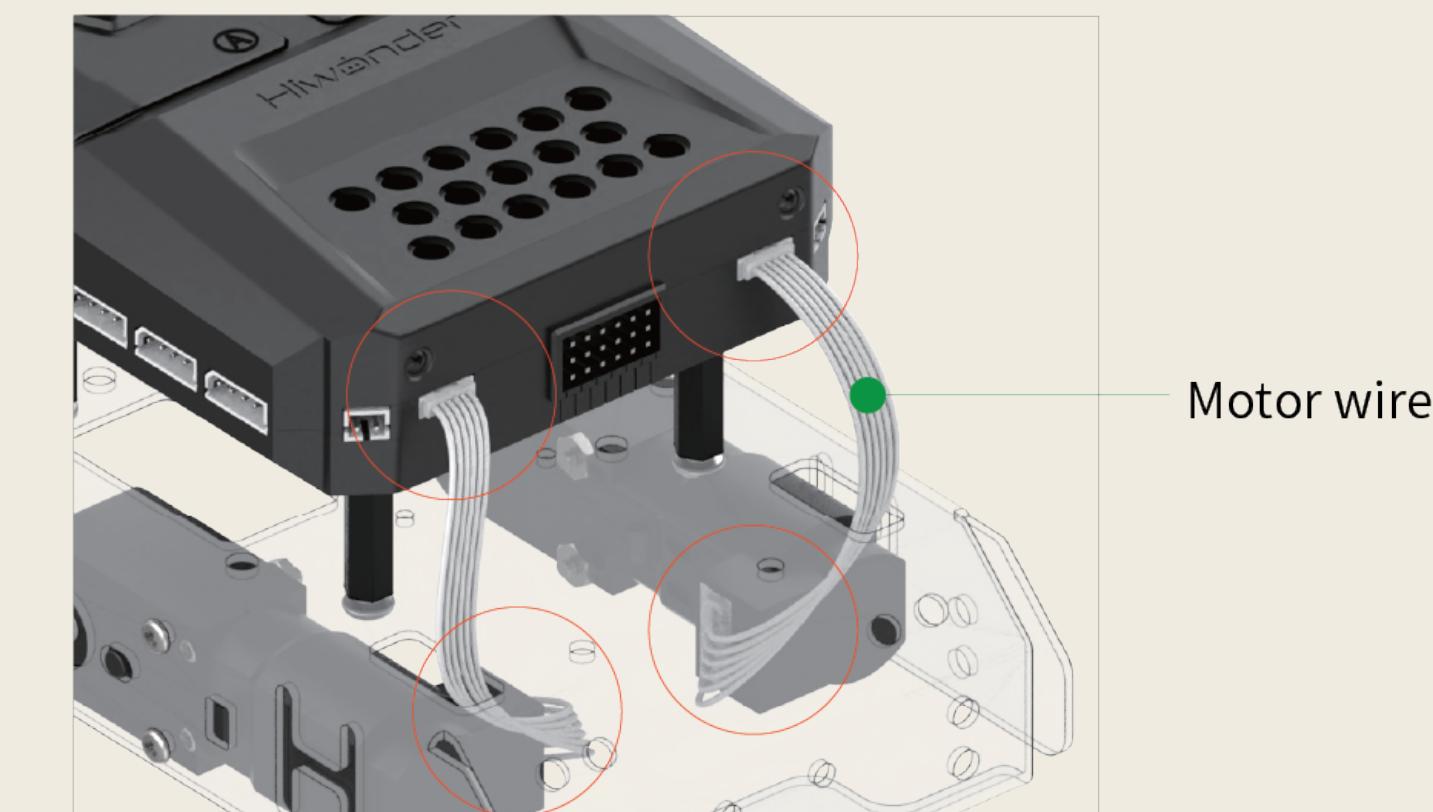
2 Assemble CoreX controller and car bracket



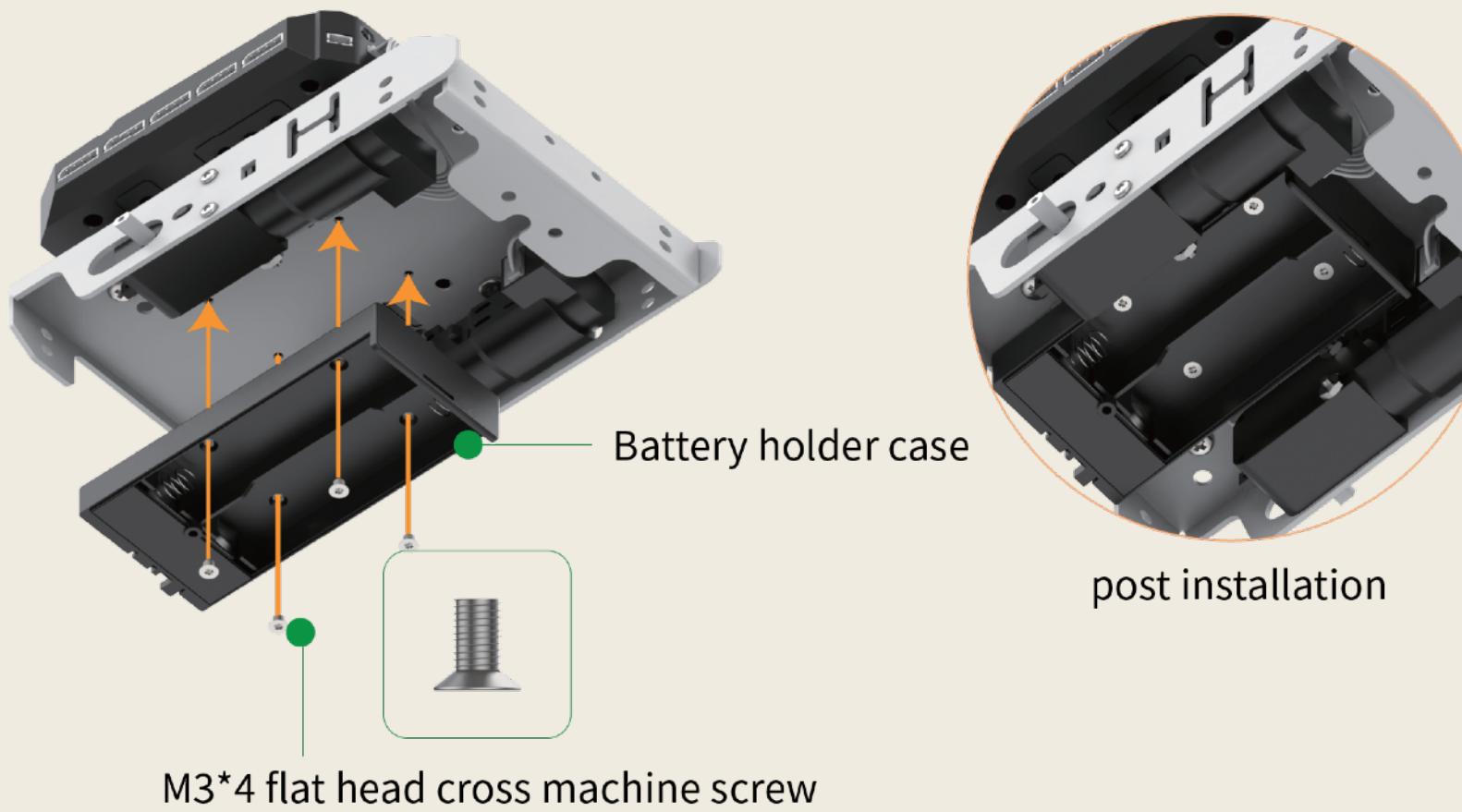
3 Install motors



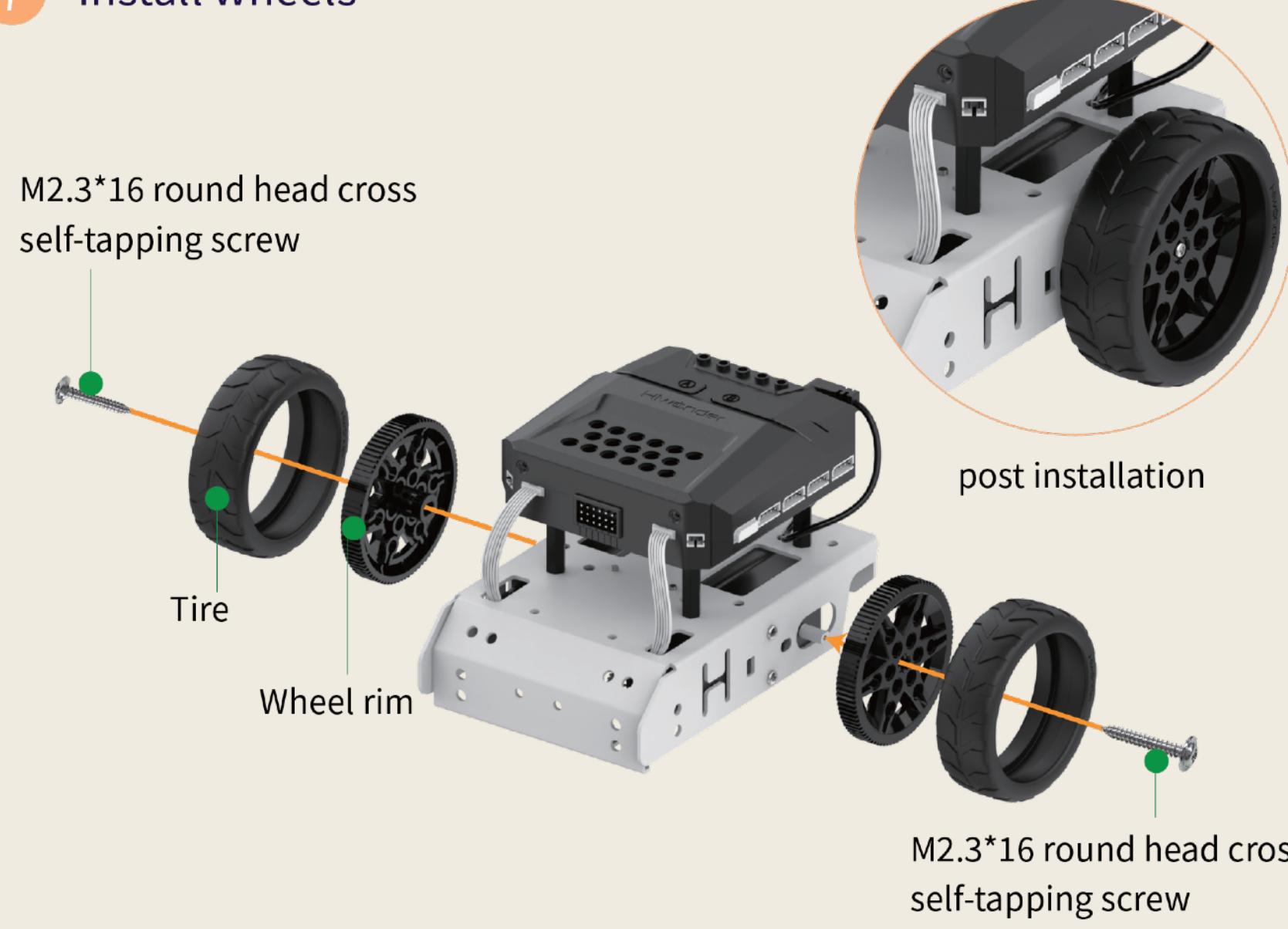
4 Motor wiring diagram



5 Install battery holder case



7 Install wheels

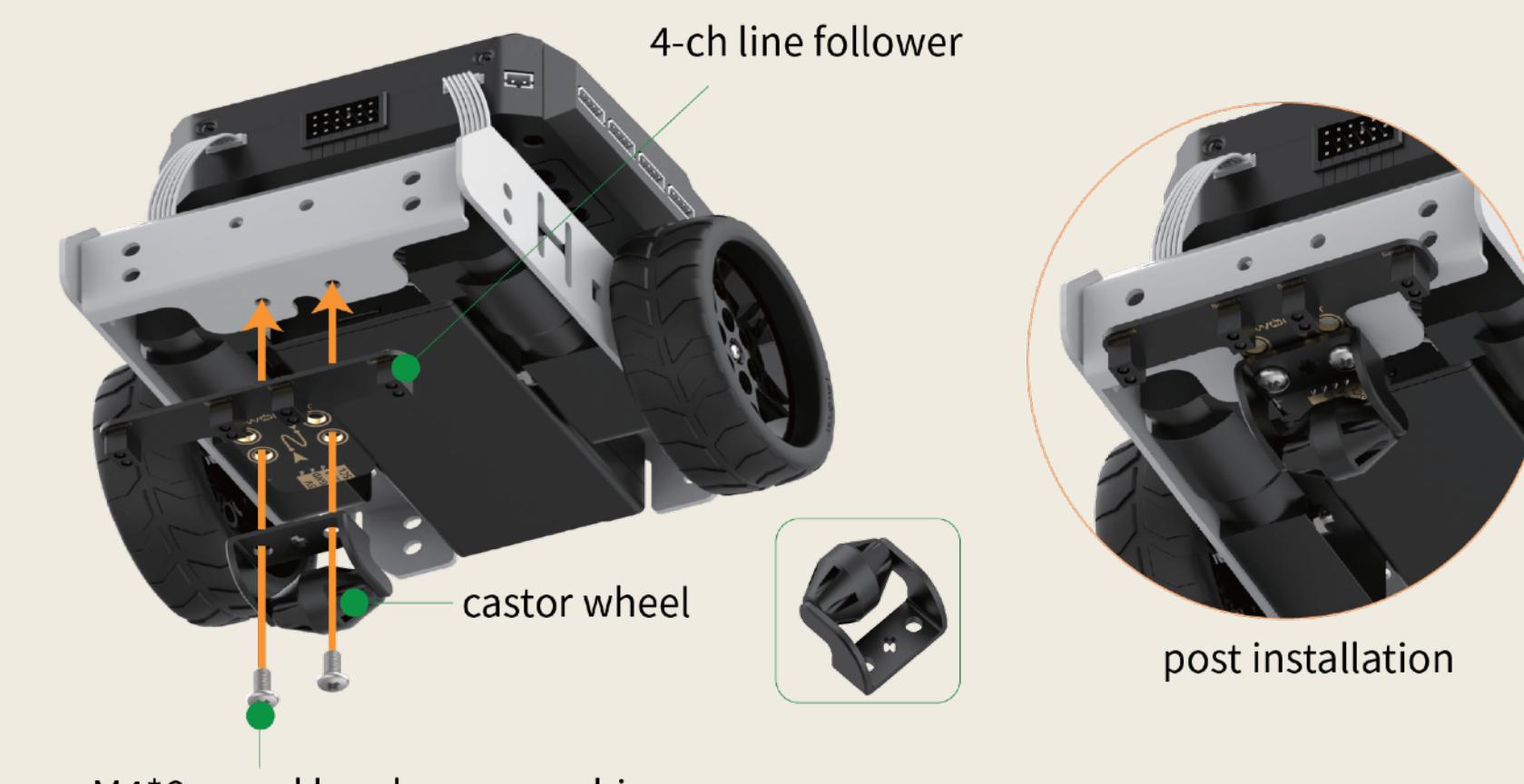


6 Battery holder case wiring

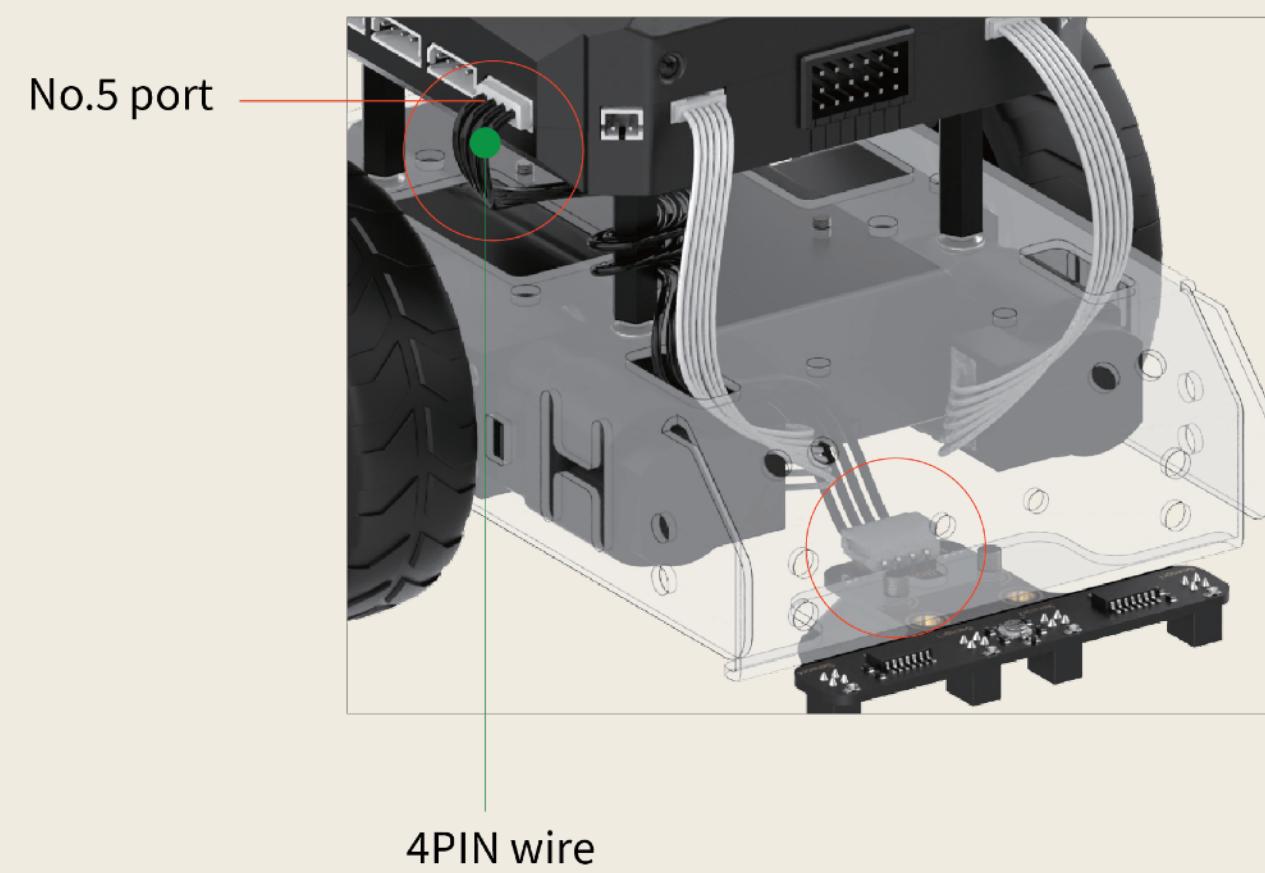
⚠ Make sure to turn OFF the battery holder case and CoreX controller before wiring.



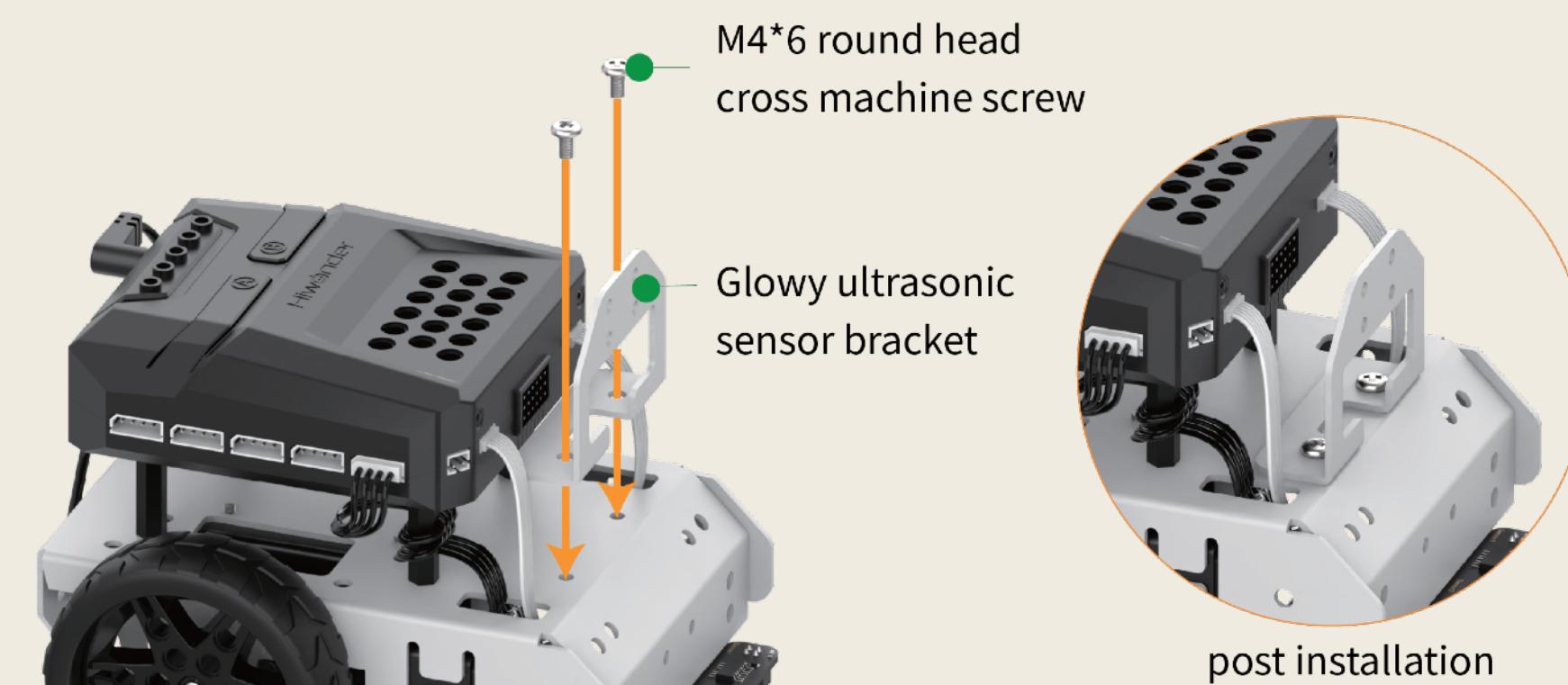
8 Install 4-ch line follower and castor wheel



9 4-ch line follower wiring

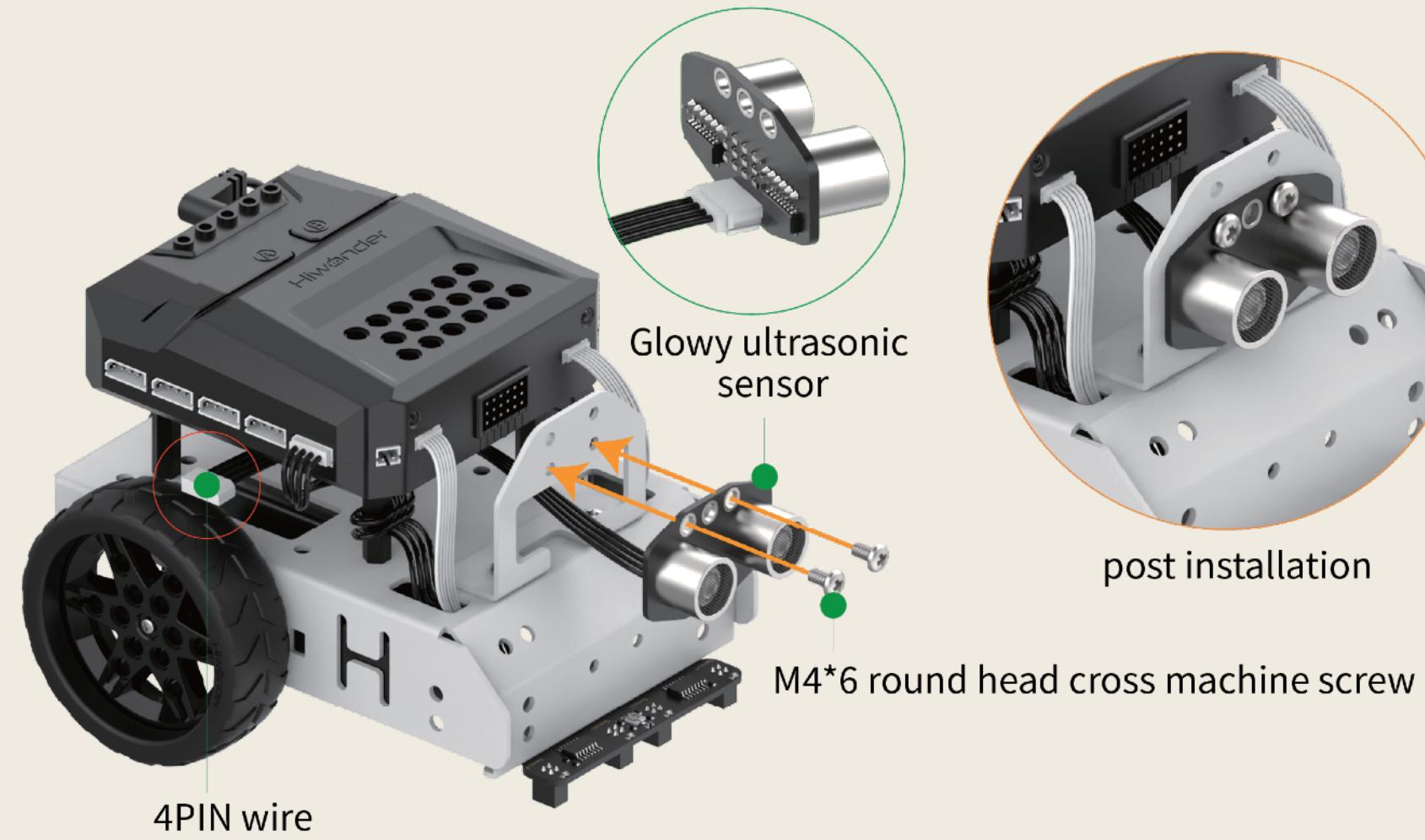


10 Install glowy ultrasonic sensor bracket



11 Install glowy ultrasonic sensor

⚠ Please install ultrasonic sensor after connecting 4PIN wire to it.



12 Glowy ultrasonic sensor wiring



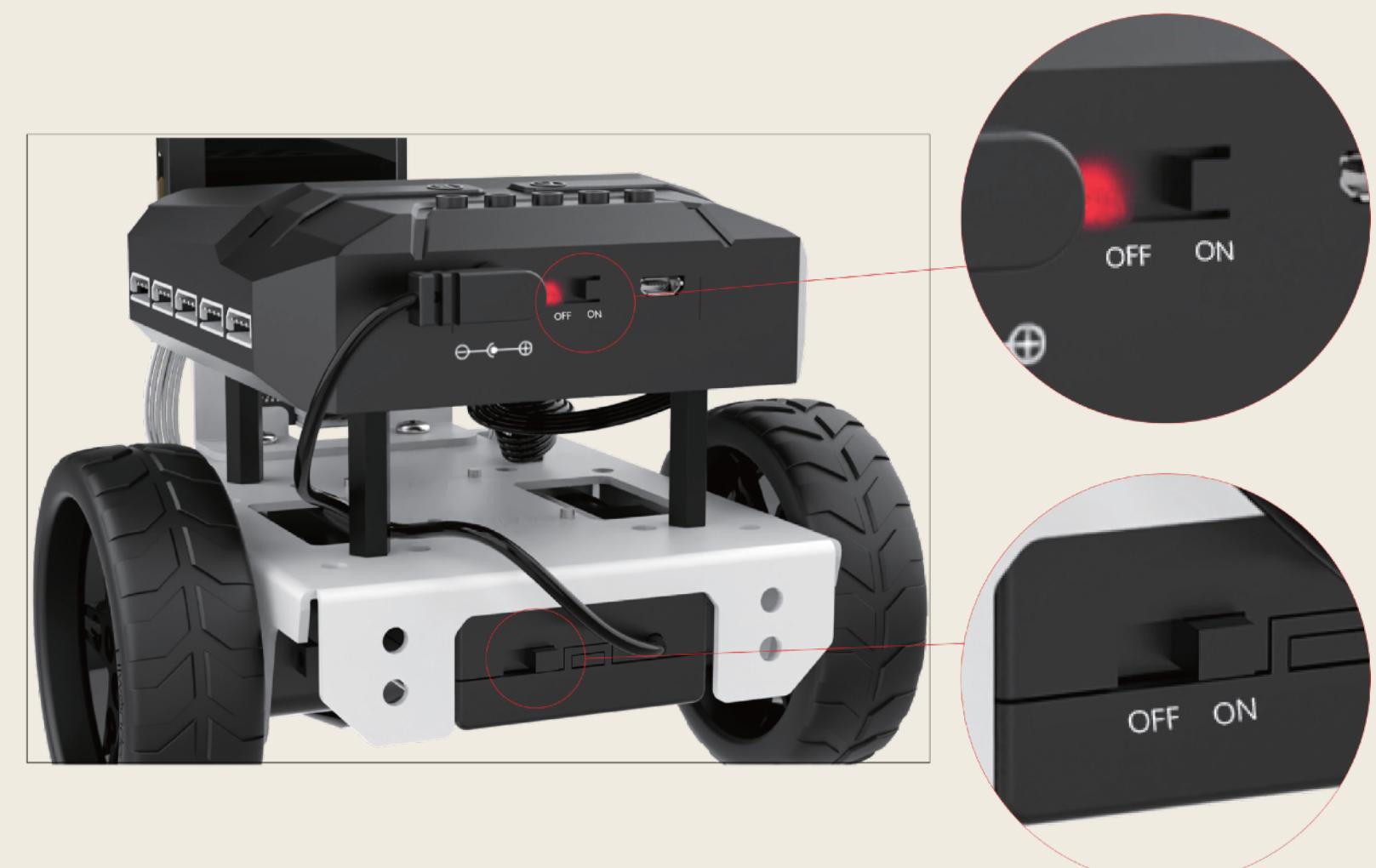
Charging

1. Insert two 18650 Lipo batteries into the charger.
2. Connect the charger to a computer or 5V power block through USB cable.
3. The indicator on the charger will turn red when batteries are charging and will turn green when fully charged. (Please charge for at least 2 hours!)



Start ExoNaut

Insert batteries into the battery holder case, then turn ON both the switch on battery holder case and CoreX controller.



Important Links



Tutorials



Videos