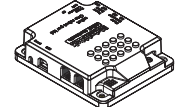


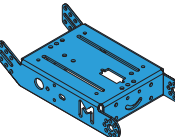
mBot  
Educational Robot Kit  
Assembling Manual



Parts List



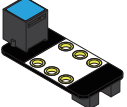
Mainboard mCore (1)



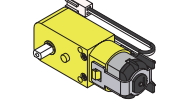
Chassis (1)



Ultrasonic Sensor (1)



Line-follower Sensor (1)



Motor (2)



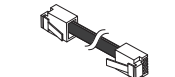
Mini Wheel (1)



Wheel (2)



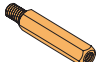
Screwdriver (1)



RJ25 Cable (2)



USB Cable (1)



M4\*25mm Brass Stud (4)



M3\*25mm Screw (6)



M4\*8mm Screw (15)



M2.2\*9mm Self-drilling Screw (4)



M3 Nut (8)



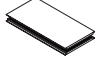
Infrared Remote Controller (1)



AA Battery Holder (1)



Line-follower Map (1)

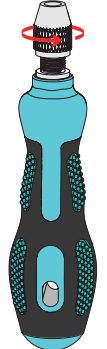


Velcro sticker pad (2)

Please check the parts list before you build it.



Use of Screwdriver





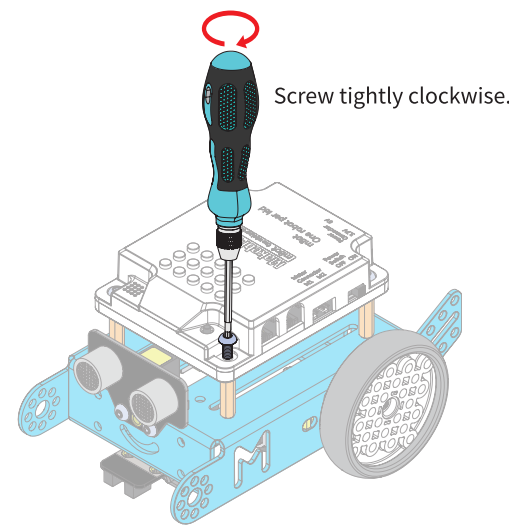
Hexagon Socket Cap Screw M4



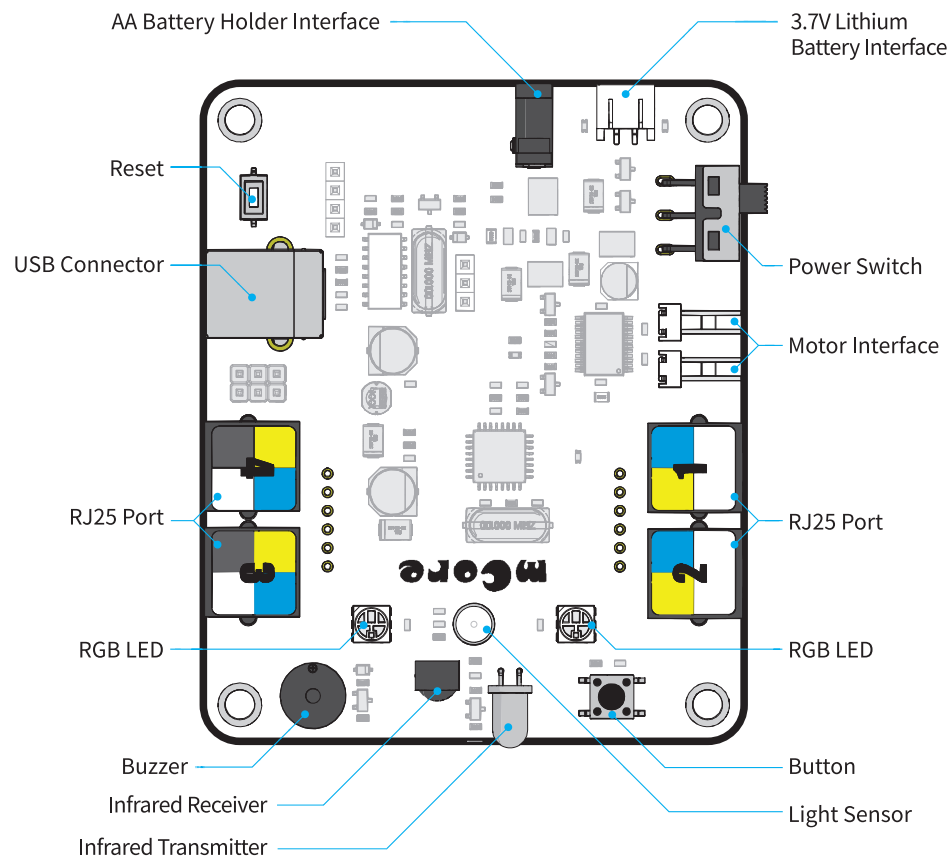
Cross Screw



Screw tightly clockwise.



Mainboard mCore Introduction



Labels: AA Battery Holder Interface, 3.7V Lithium Battery Interface, Reset, USB Connector, RJ25 Port, RGB LED, Buzzer, Infrared Receiver, Infrared Transmitter, Power Switch, Motor Interface, RJ25 Port, RGB LED, Button, Light Sensor

FCC STATEMENT:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and  
(2) This device must accept any interference received, including interference that may cause undesired operation.  
Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.  
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:  
· Reorient or relocate the receiving antenna.  
· Increase the separation between the equipment and receiver.  
· Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.  
· Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

IC STATEMENT:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:  
(1) this device may not cause interference, and  
(2) this device must accept any interference, including interference that may cause undesired operation of the device."  
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :  
(1) l'appareil n' doit pas produire de brouillage, et  
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."



DECLARATION OF CONFORMITY

Declaration of conformity Hereby, Makeblock Co., Ltd., declares that this product is in compliance with the essential requirements and other relevant provisions of Directive RED 2014/53/EU and the RoHS directive 2011/65/EU

Warning

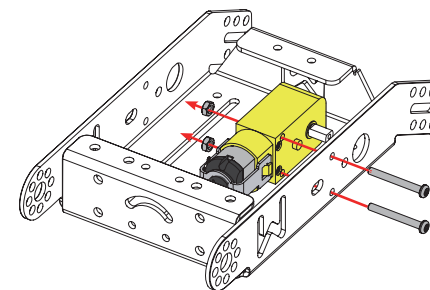
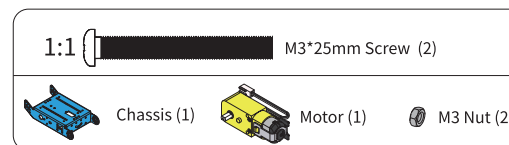
- This product is recommended for Ages 8+.
- The small parts contained in the package may lead to choking hazard. Keep out of reach of children younger than 3 years old.
- Adult supervision is required for children using mBot.
- To avoid failure: please do not disassemble, repair, or modify the components without permission.
- Do not connect the mBot to any power supplies with higher voltage than recommended.
- The power adapter (not included in the package) is not a toy.
- Please check the wires, plugs, cases, and other components regularly for damages. If there are any signs of damage, we recommend that you stop using mBot before they are well repaired.
- Please disconnect mBot from the external power supply before cleaning it with any liquid.
- Please charge the product with a power source (5V/1A) of the recommended specifications.

Ages 8+

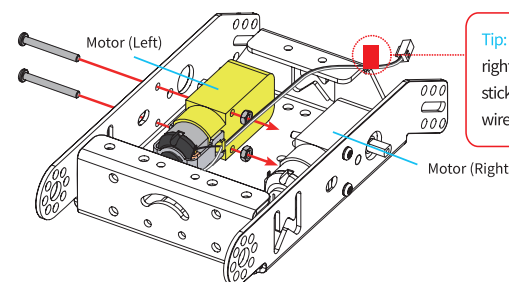
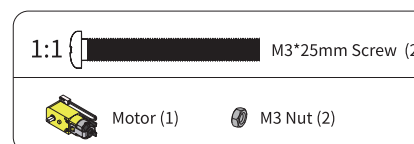
## Building Instructions



### Step 1

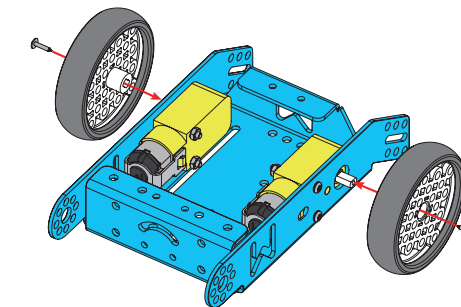
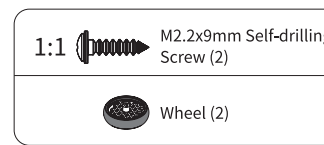


### Step 2

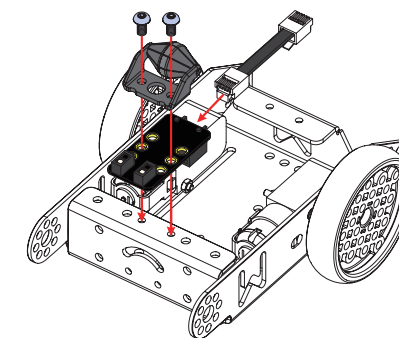
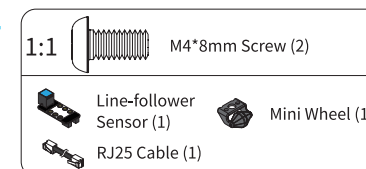


**Tip:** To easily distinguish between the left and right motor cable, it is advised for you to use stickers, thin string, or pen to mark the motor wires.

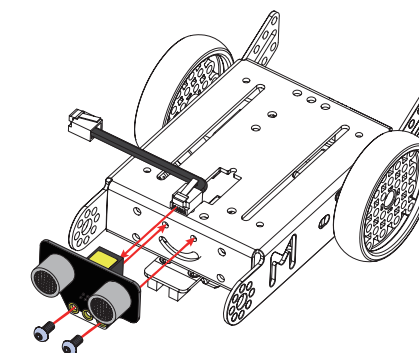
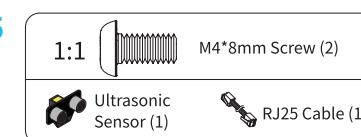
### Step 3



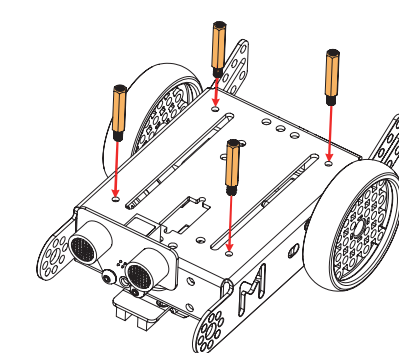
### Step 4



### Step 5

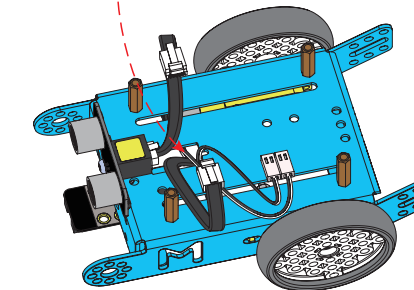


### Step 6

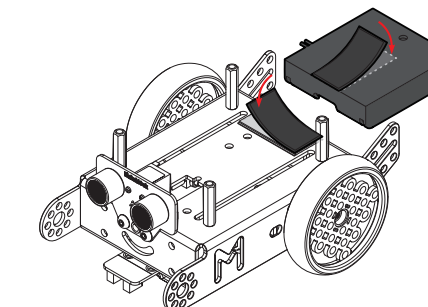
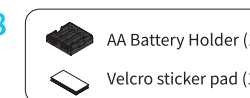


### Step 7

**Warning:** be sure to place the RJ25 connecting line and the motor cable in the direction shown in the picture.

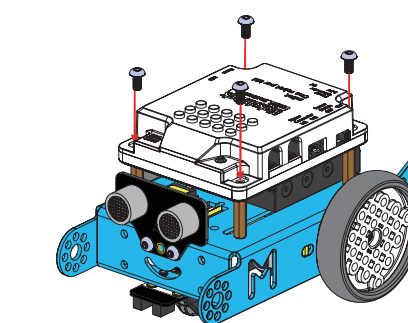
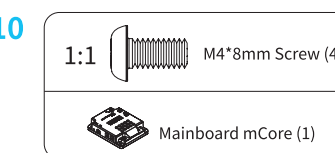


### Step 8



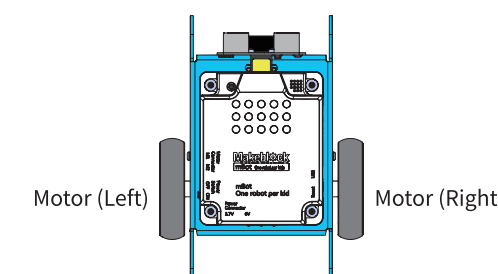
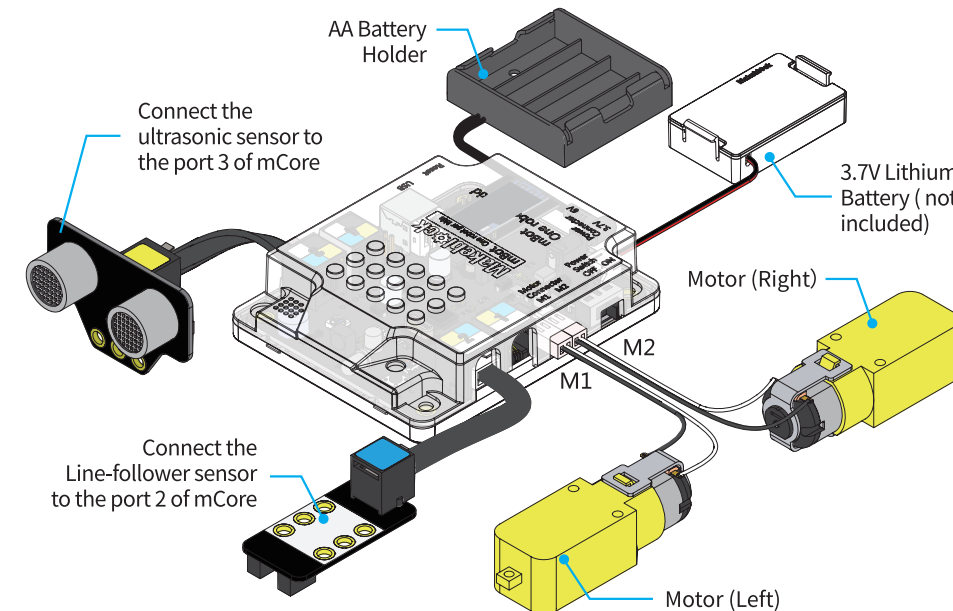
**Tip:** You can also power your mBot using a 3.7V lithium battery (not included in the package).

### Step 10



### Step 11

Please consult the graphic below to finish wiring.



Now that you have built mBot, open the Quick Start Manual and start coding!