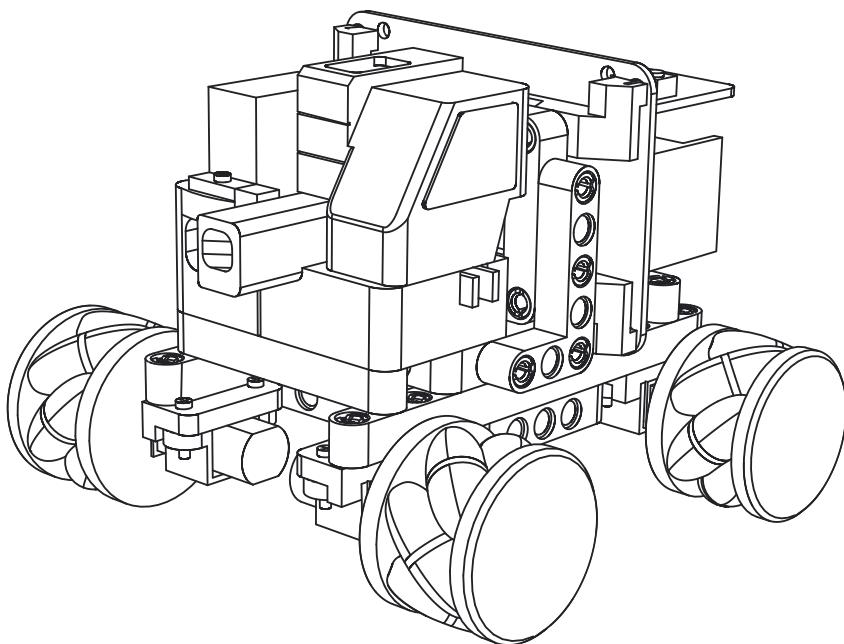


# **BK-1**

# **Intelligent Robot Kit**

## **Assembly Instruction**



# **PRECAUTIONS**

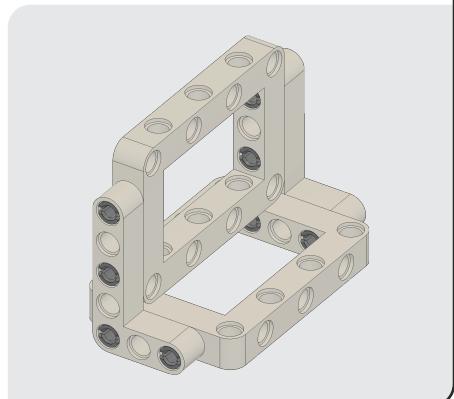
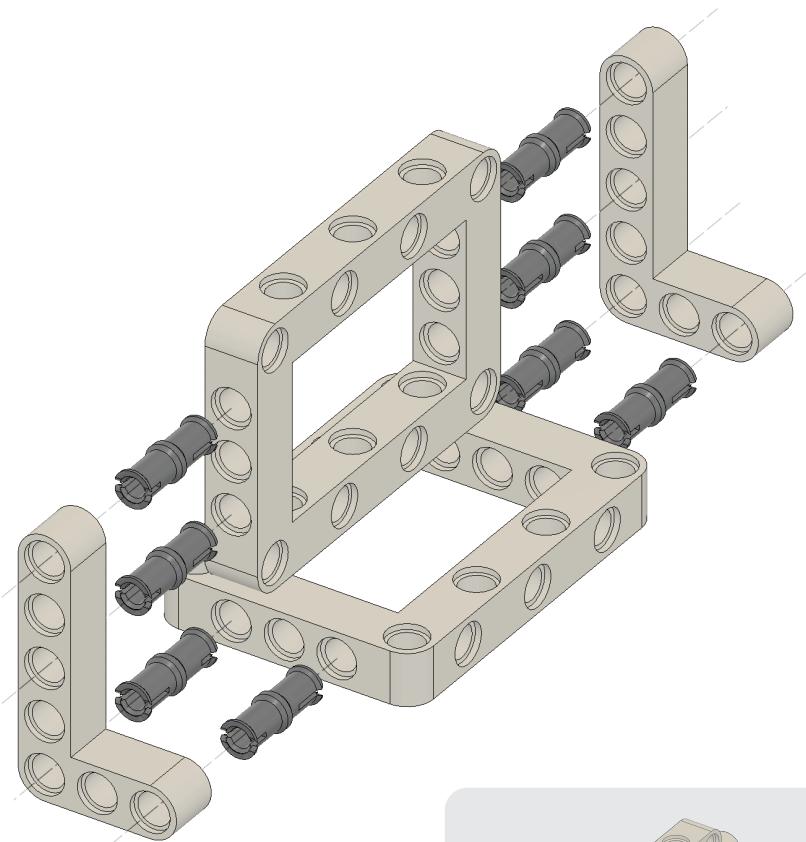
Artificial Intelligence Armored Vehicle (BK-1) is a BBC-based programmable micro-bit master that is easy to assemble and ready to battle at anywhere and anytime. This product is equipped with the Mecanum powered wheel units. You can move the vehicle in a variety of directions. A rich extended tutorial with an artificial intelligence suite can complete more interesting upgrades.

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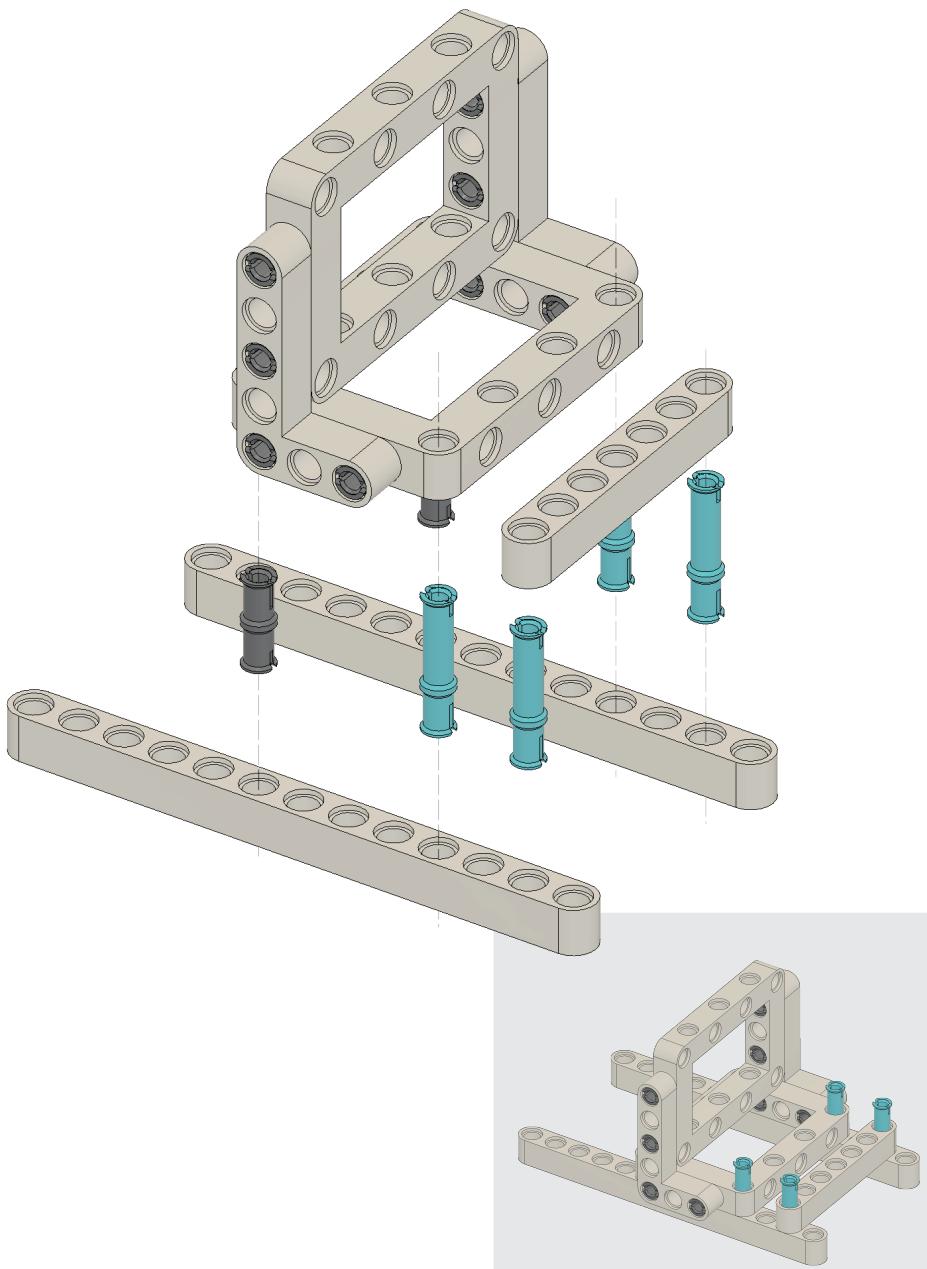
## **Warning:**

- 1. This product is not suitable for children under 3 years old;**
- 2. Children must be supervised by an adult when they play the vehicle;**
- 3. The product must be kept away from heat and fire;**
- 4. This product contains small parts, do not swallow;**
- 5. This product contains rotating parts like wheels, please keep it away from hair;**
- 6. Please follow the instructions for assembly and operation;**
- 7. Please follow the electrical operating rules, do not short the circuit and use other batteries;**
- 8. Dispose of used batteries, components, parts, etc. according to the local laws;**
- 9. Disassemble parts and components is not recommended.**

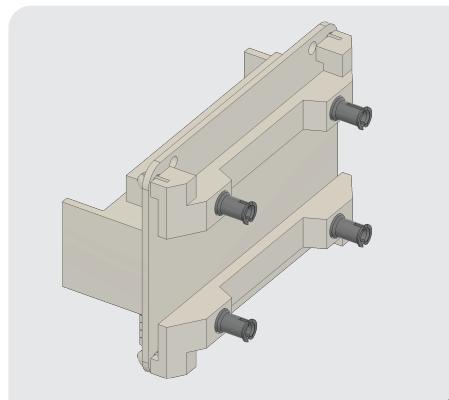
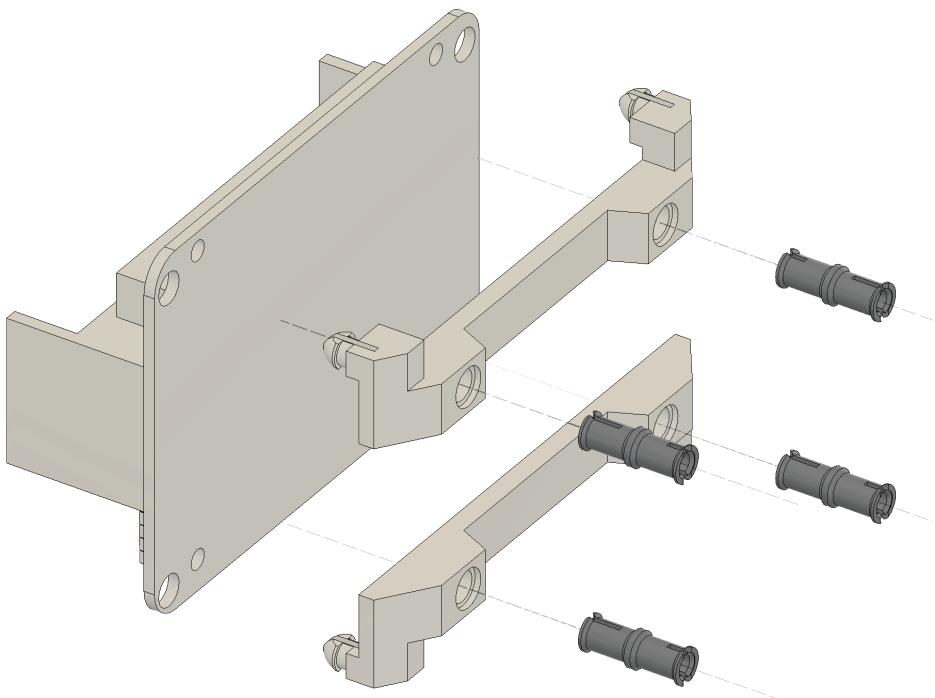
## STEP A-01



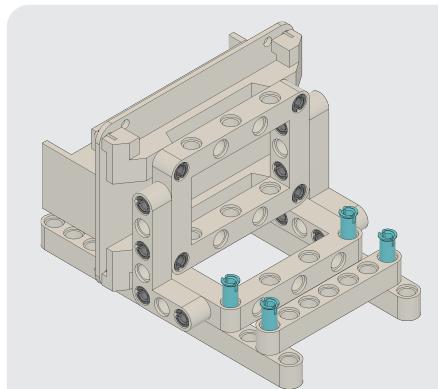
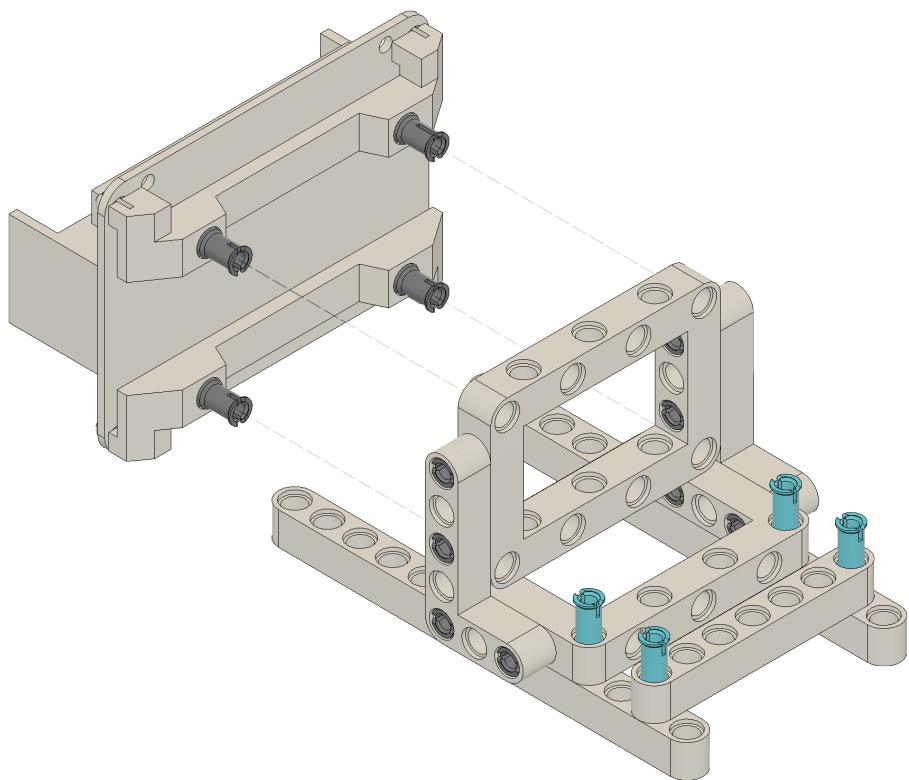
## STEP A-02



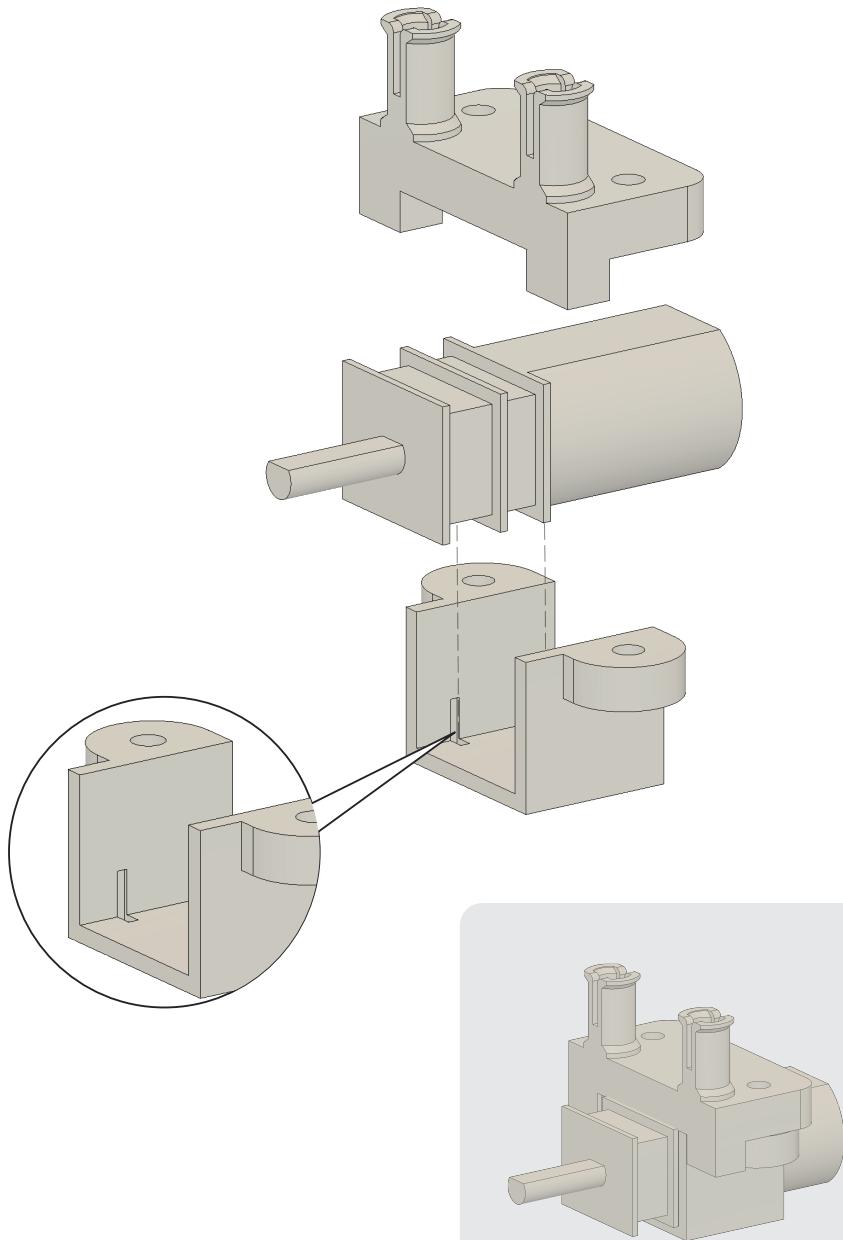
## STEP A-03



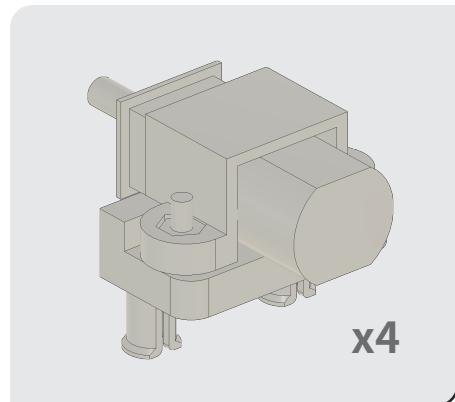
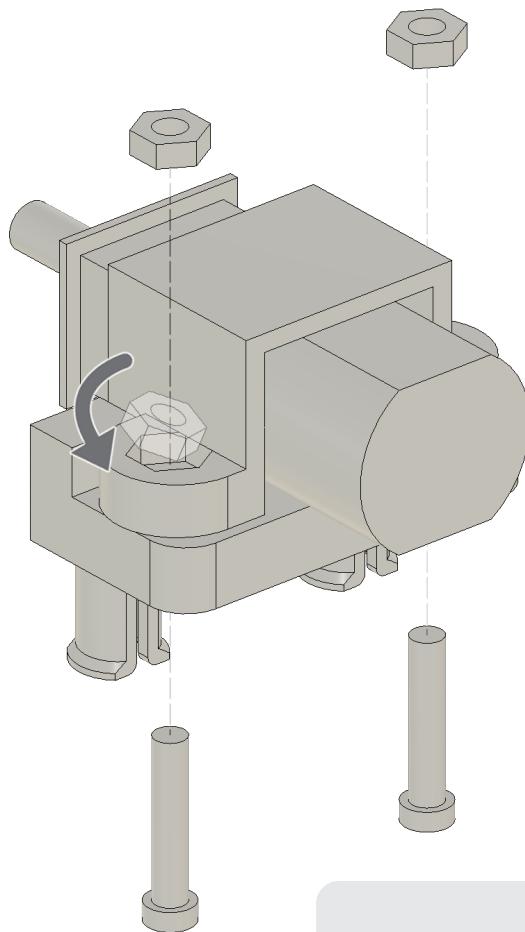
## STEP A-04



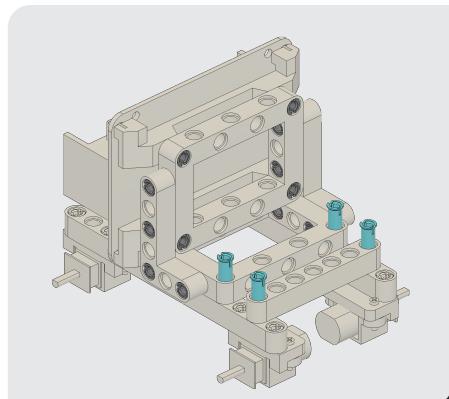
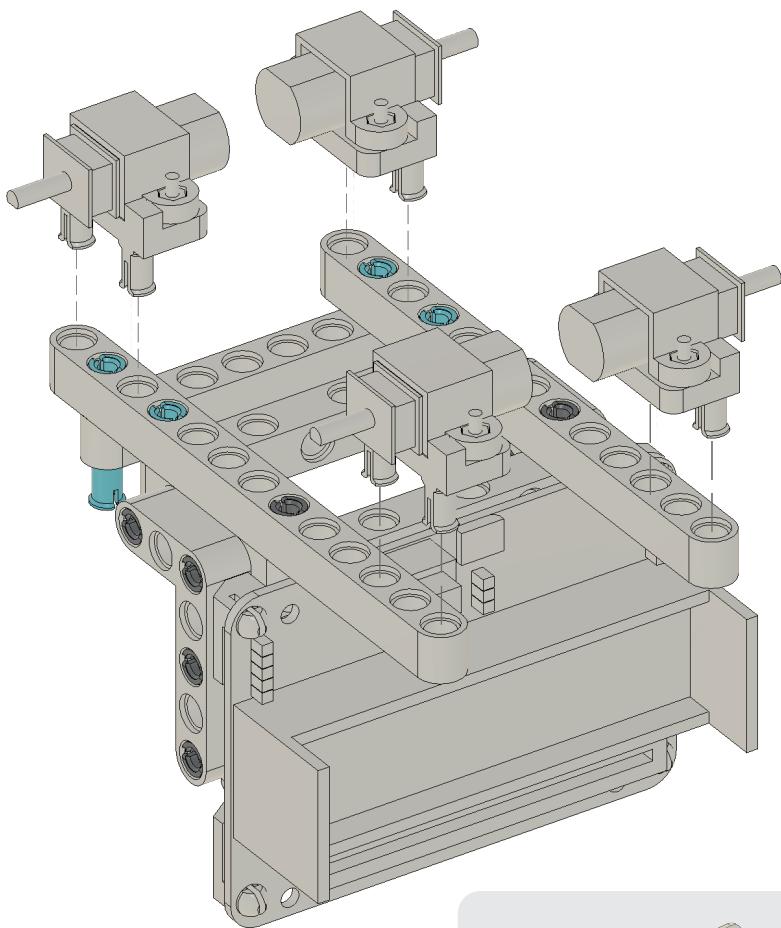
## STEP B-01



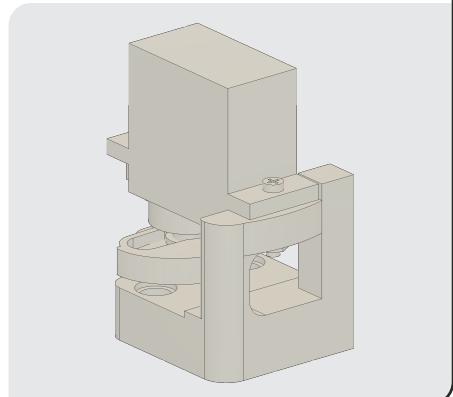
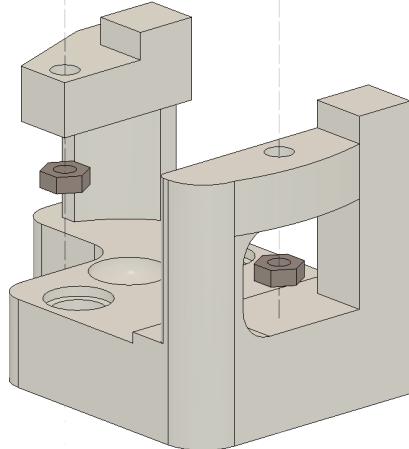
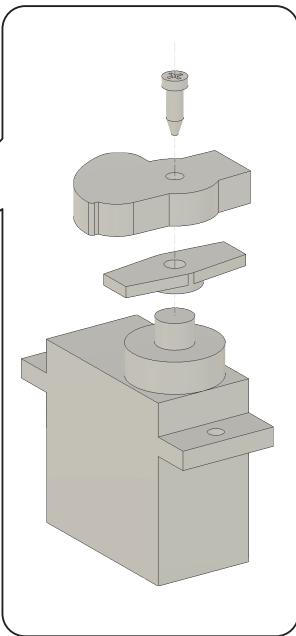
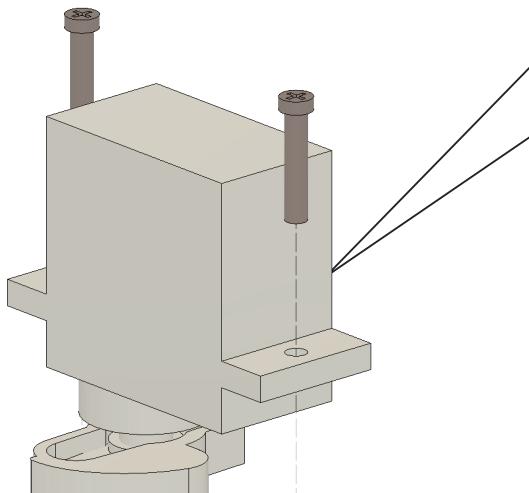
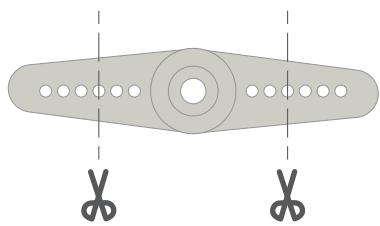
## STEP B-02



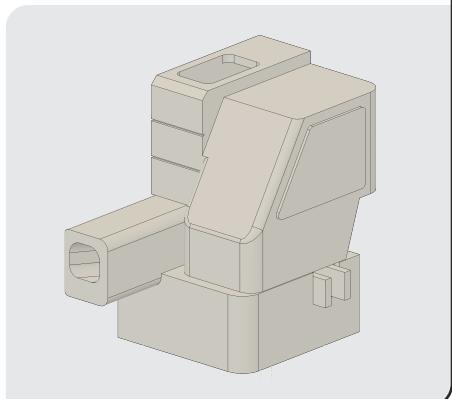
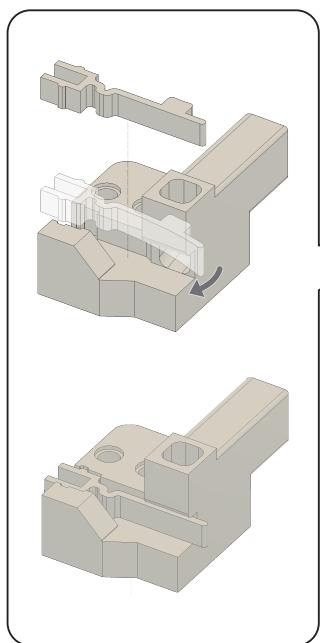
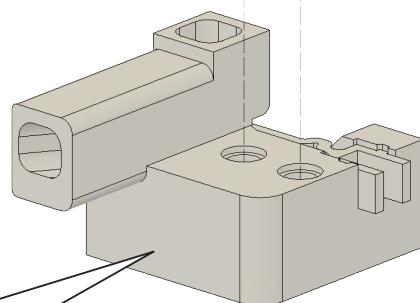
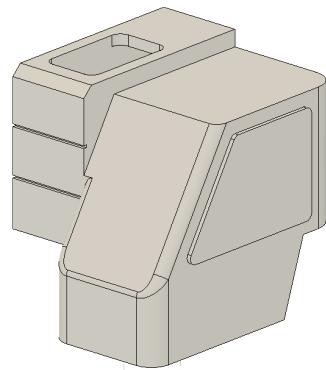
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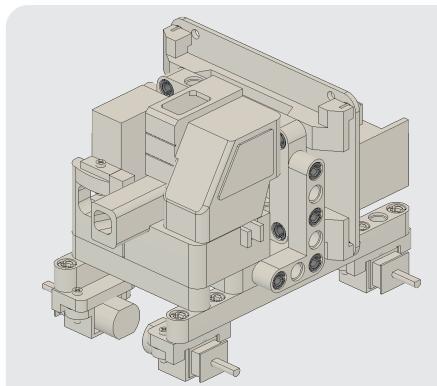
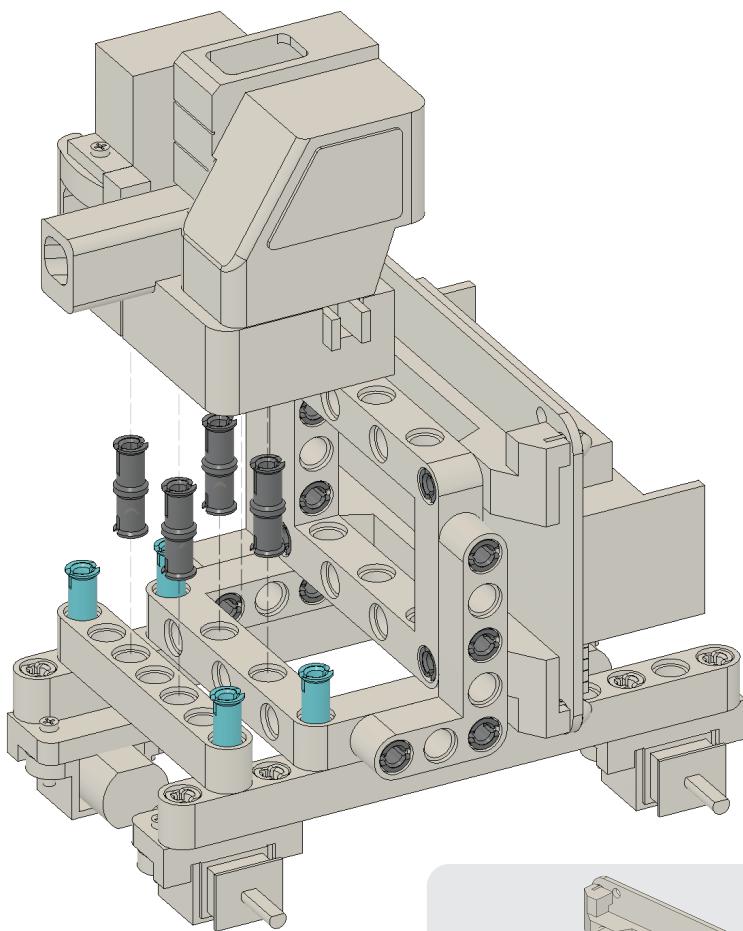
## STEP B-04



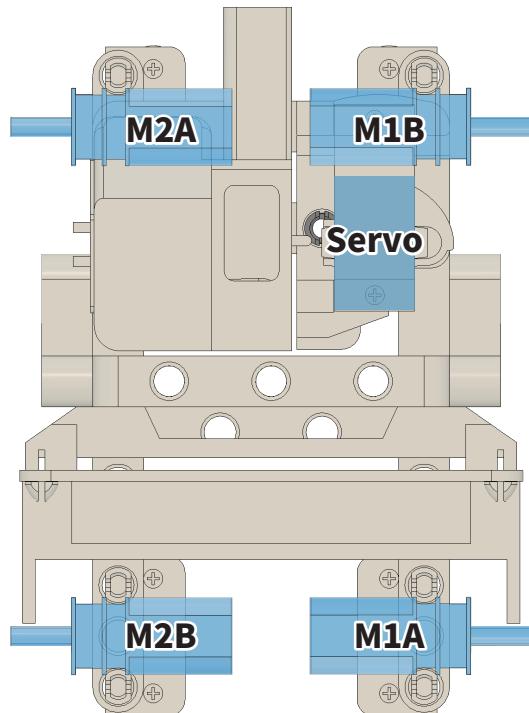
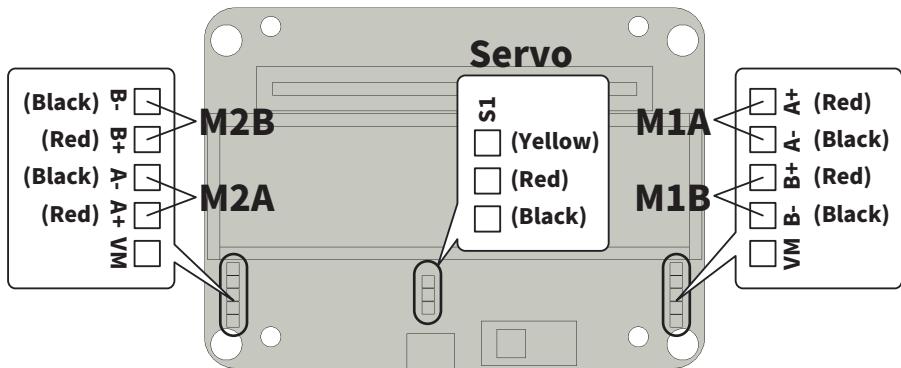
## STEP B-05



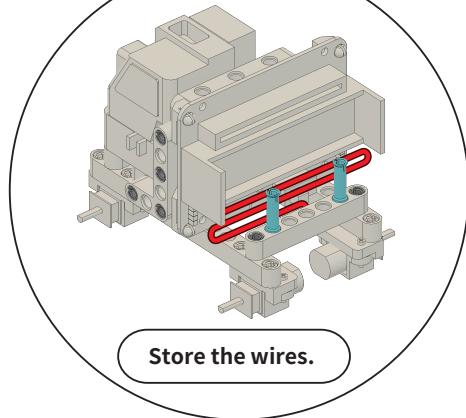
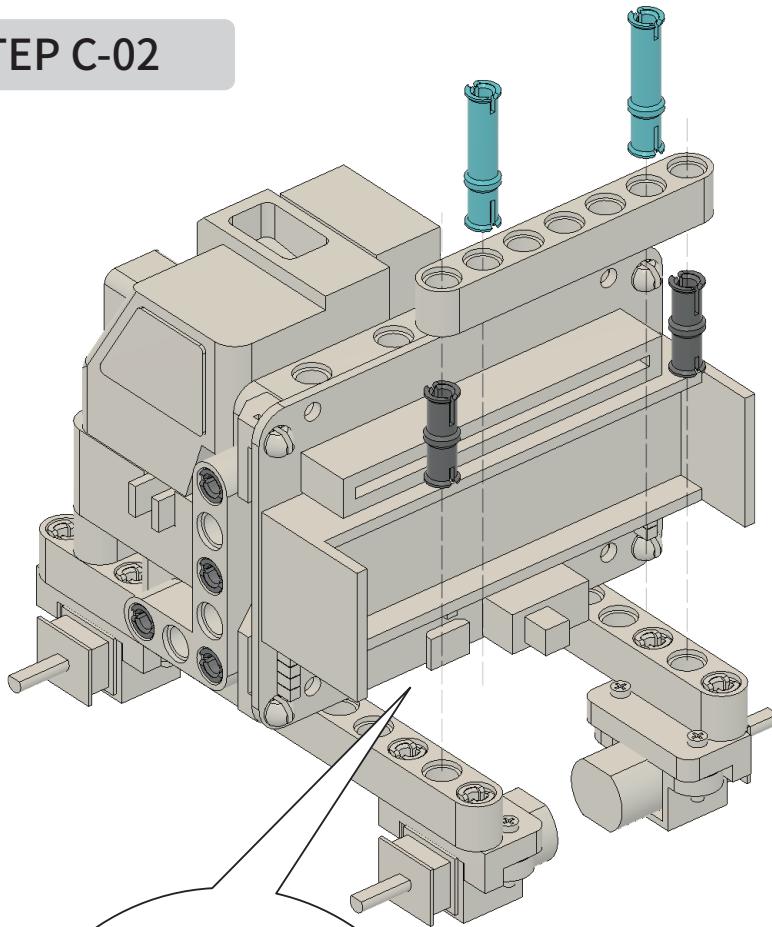
## STEP B-06



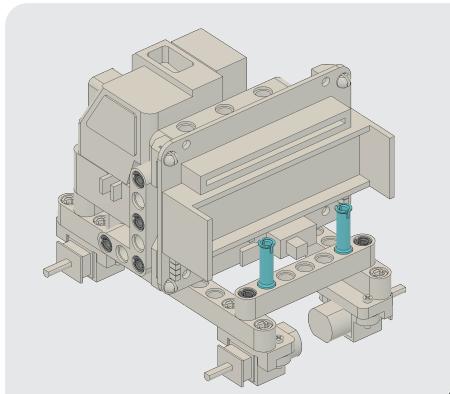
## STEP C-01



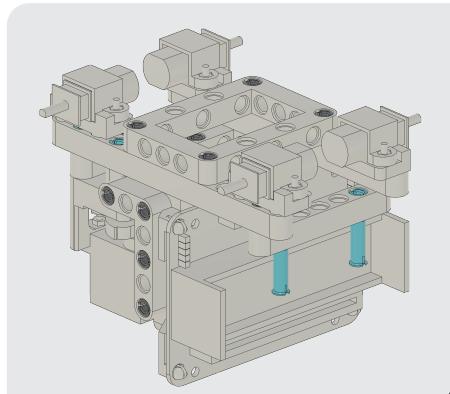
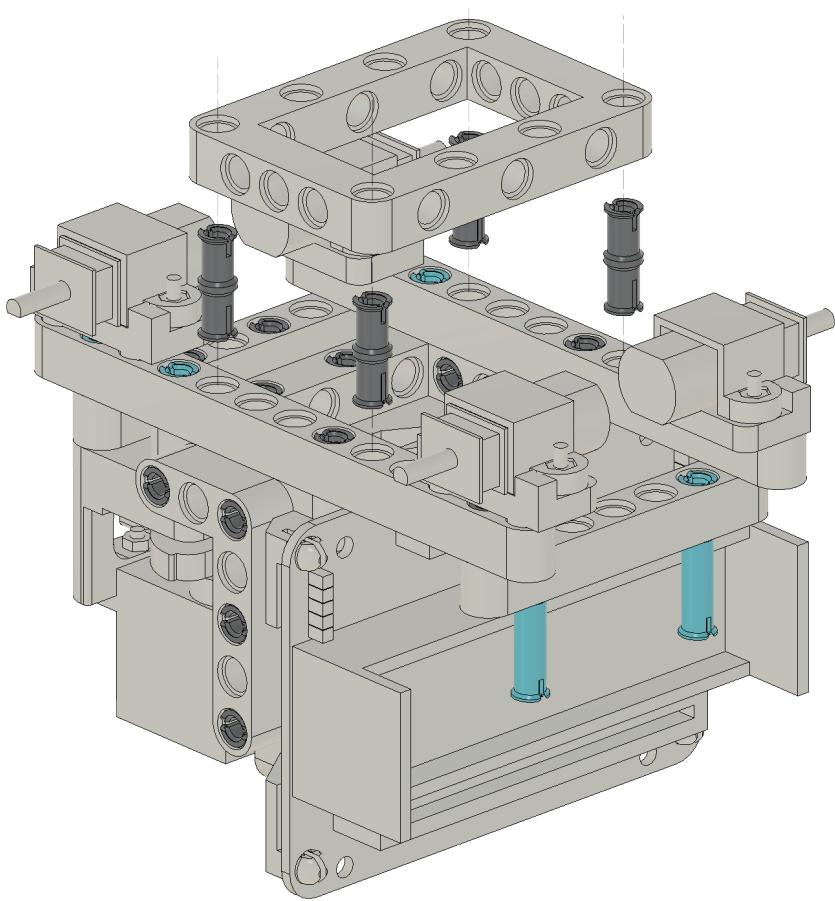
## STEP C-02



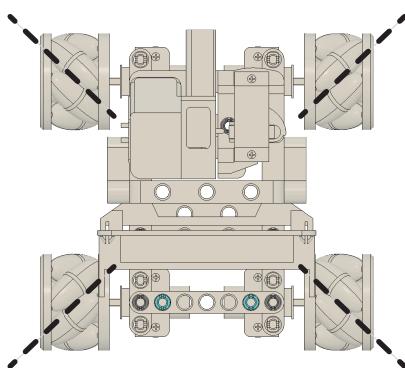
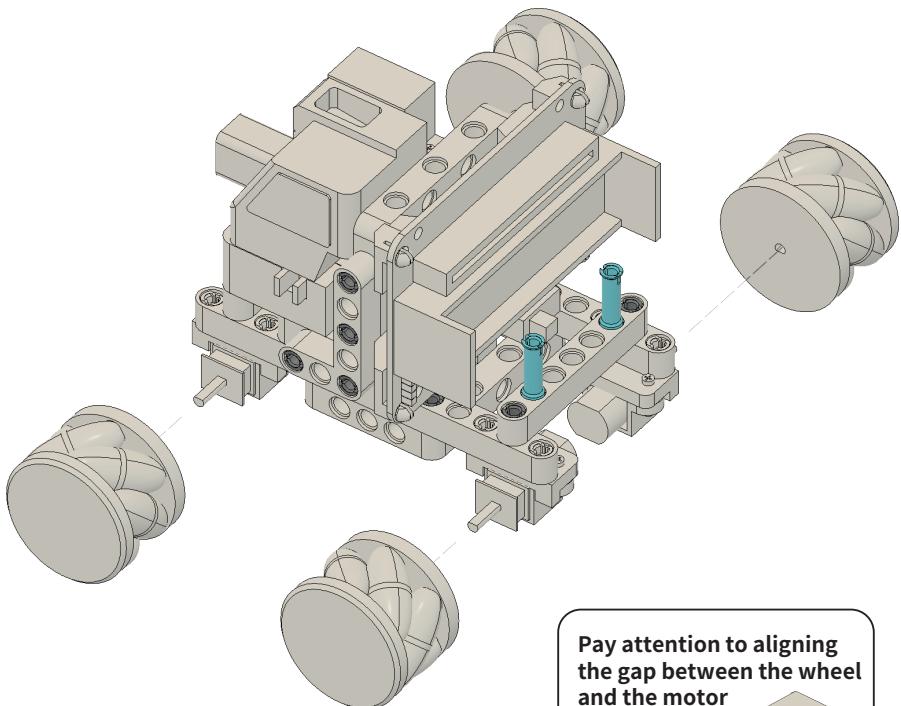
Store the wires.



## STEP C-03

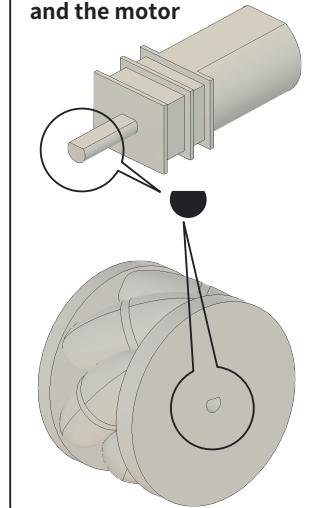


## STEP C-04

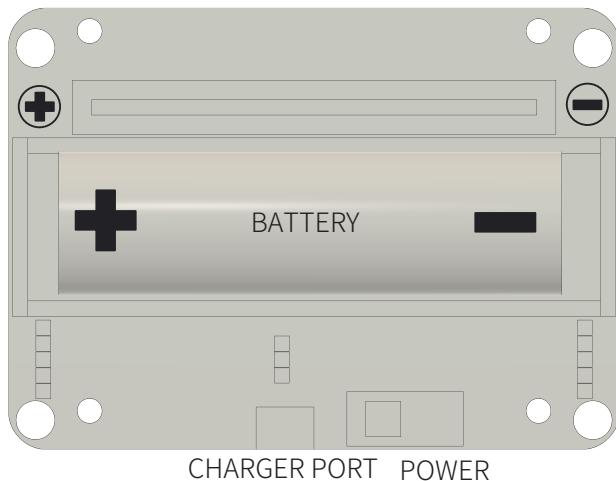
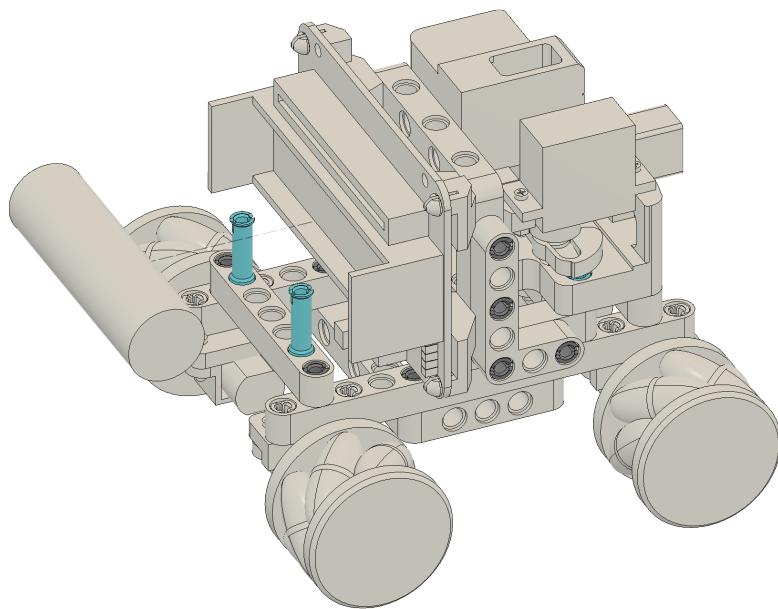


The wheels must be assembled  
as the picture shows

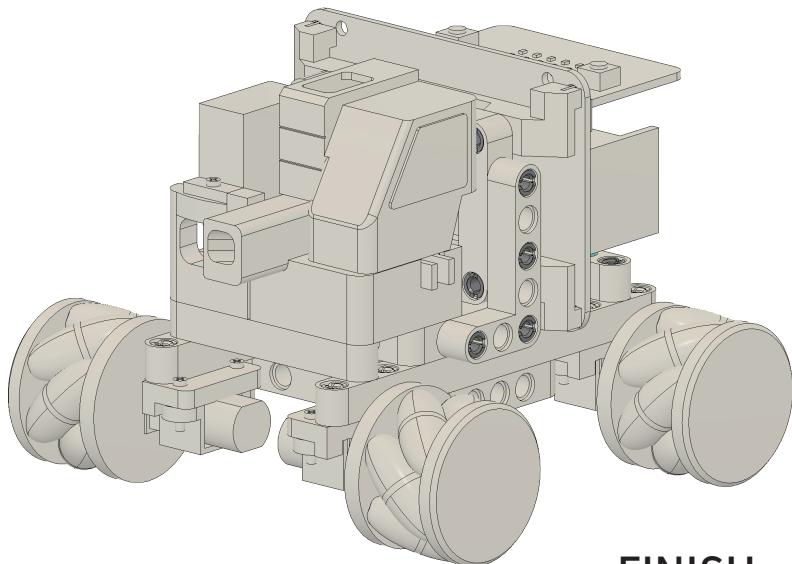
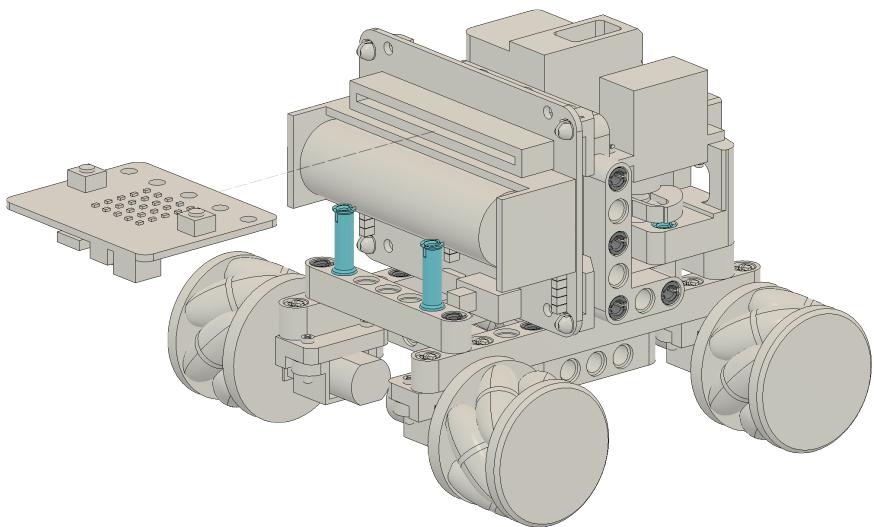
Pay attention to aligning  
the gap between the wheel  
and the motor



## STEP C-05

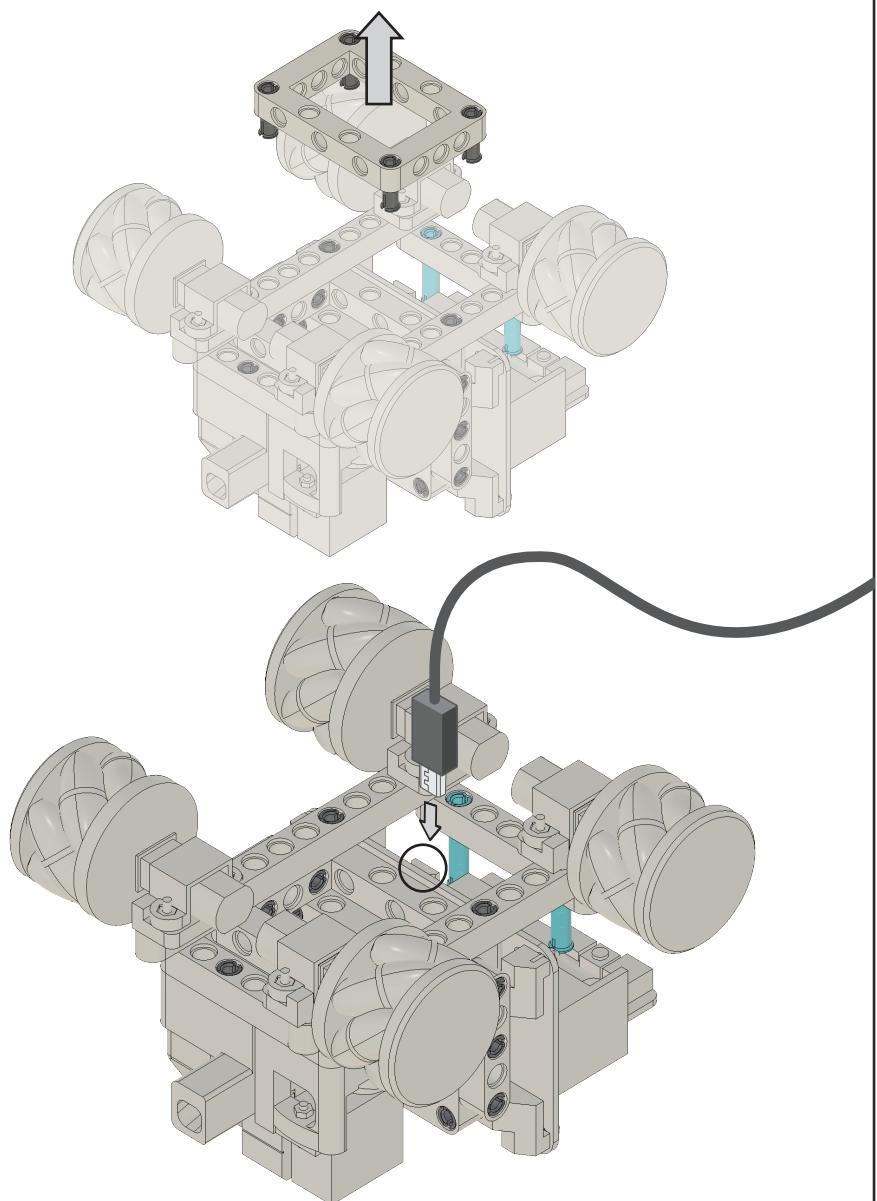


## STEP C-06



**FINISH**

## CHARGE METHOD

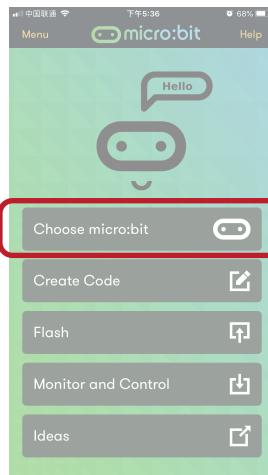


# IOS Devices Operation Steps

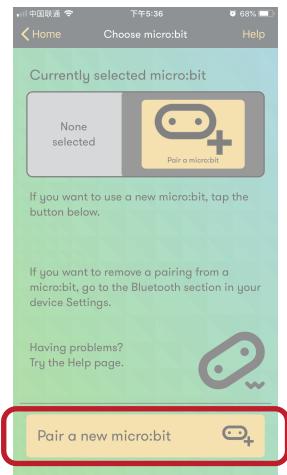
## App install & Use Instruction



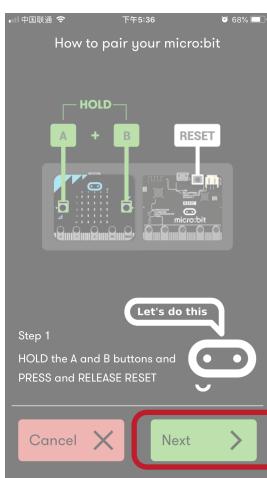
1. Search and download the "micro:bit" app in the App Store



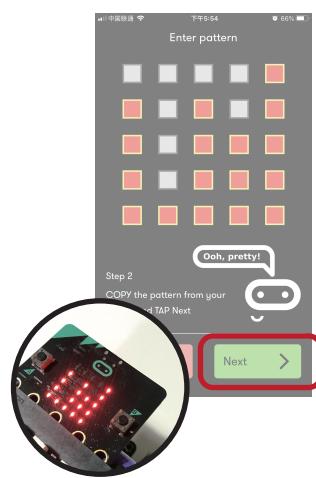
2. Enter micro:bit and select [Choose micro:bit]



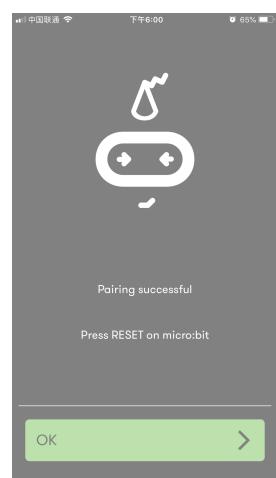
3. Then select [Pair a new micro:bit]



4. Turn on the BK-1, press and hold the "A" and "B" buttons and click "RESET". After the Bluetooth icon appears, click [Next]

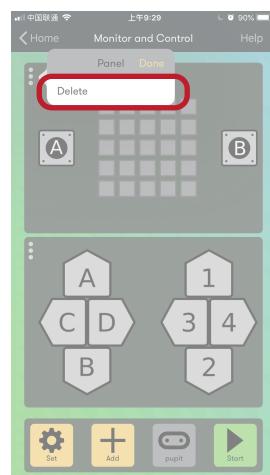
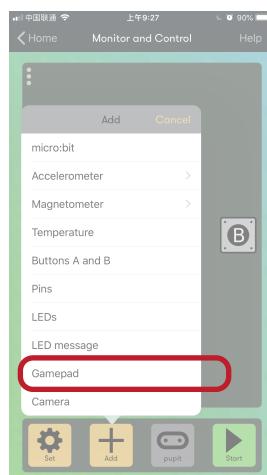
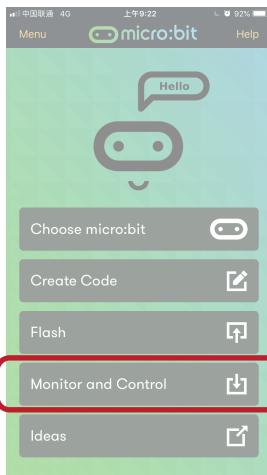


5. Enter the same binding pattern as the BK-1 motherboard. Click [Next] when finished.



6. Continue to click [Next] until the binding is complete. If "Allow Bluetooth pairing" appears, click Pair.

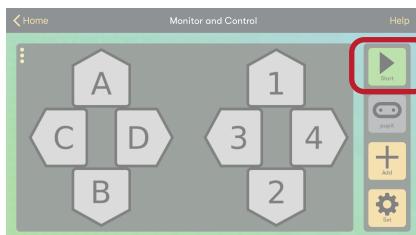
# Remote control



1. Open the "micro:bit" app and select [Monitor and Control]

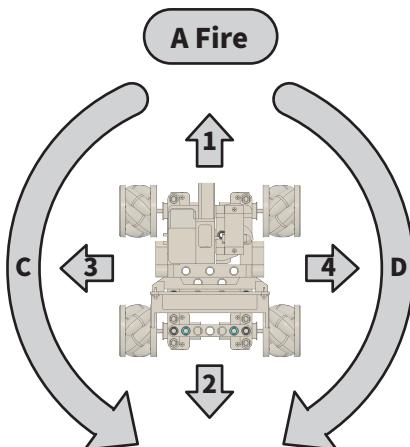
2. Click [Add] and select [Gamepad] in the menu.

3. Click "..." on the micro:bit panel and select [Delete] to delete this panel.



4. Restart the BK-1 power supply. Click [Start] in the APP, the remote control can be started after the connection is successful, and the function corresponding to the button is as shown on the right. It is more convenient to tap the phone.

For more technical support, please visit the Github Code Warehouse:  
<https://github.com/Bain3d/BK-1/>

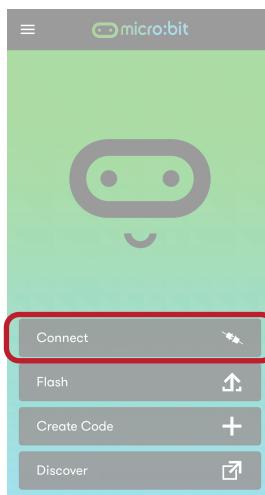


# App install&Use Instruction

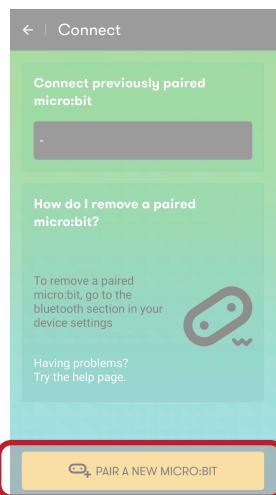
## App install & Use Instruction



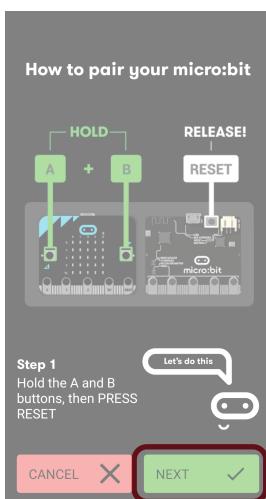
1. Search and download the "micro:bit" app in the app store; if you can't download it, you can also go to the GitHub repository to download this app:  
<https://github.com/Bain3d/BK-1/tree/master/app/microbit.apk>



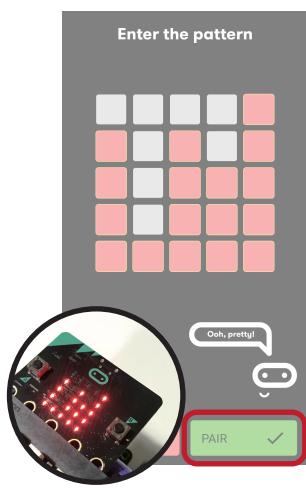
2. Enter micro:bit and select [Connect]



3. Then select [Pair a new micro:bit]



4. Turn on the BK-1, press and hold the "A" and "B" buttons and click "RESET". After the Bluetooth icon appears, click [Next]



5. Enter the same binding pattern as the BK-1 motherboard. Click [Next] when finished.



6. Continue to click [Next] until the binding is complete. If "Allow Bluetooth pairing" appears, click Pair.

# Remote control



1. Search and download the "micro:bit blue" app in the App Store; if you can't download it, you can also go to the GitHub repository to download this app:  
<https://github.com/Bain3d/BK-1/tree/master/app/microbit-blue.apk>

**Step 2**

**Step 3**

FIND PAIRED BBC MICRO-BITS

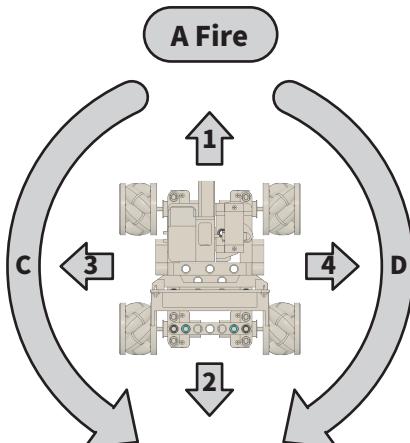
2. Turn on the BK-1 power supply, click [FIND PAIRED...], and then select the corresponding micro:bit motherboard in the list.

3. Select [Dual D-Pad Controller]

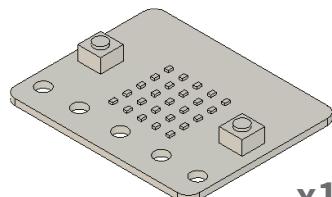


4. After entering the interface, you can start to remote control the vehicle. The function corresponding to the button is as shown on the right figure.

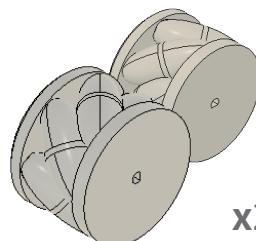
For more technical support, please visit the Github Code Warehouse:  
<https://github.com/Bain3d/BK-1/>



## Parts List



x1



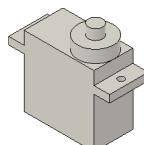
x2



x10



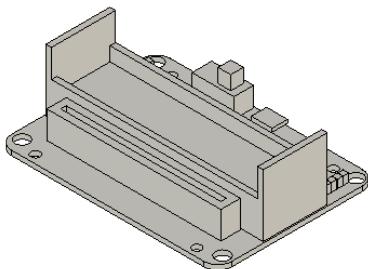
x1



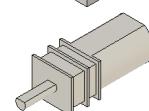
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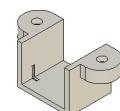
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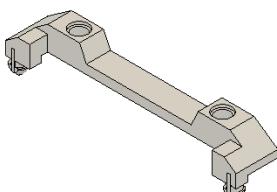
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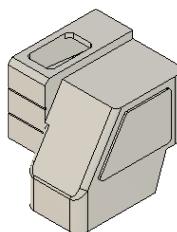
x4



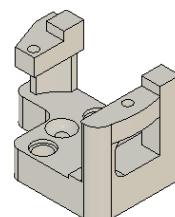
x4



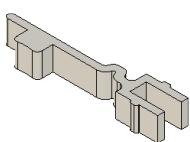
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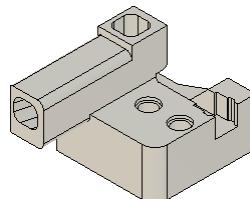
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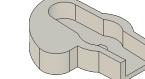
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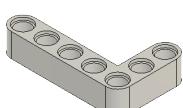
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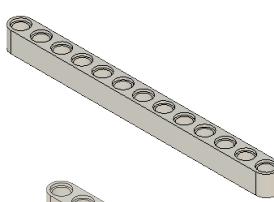
x1



x1



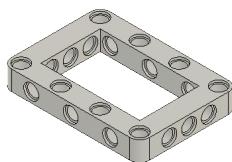
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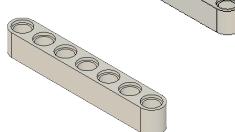
x2



x6



x3



x2



x26