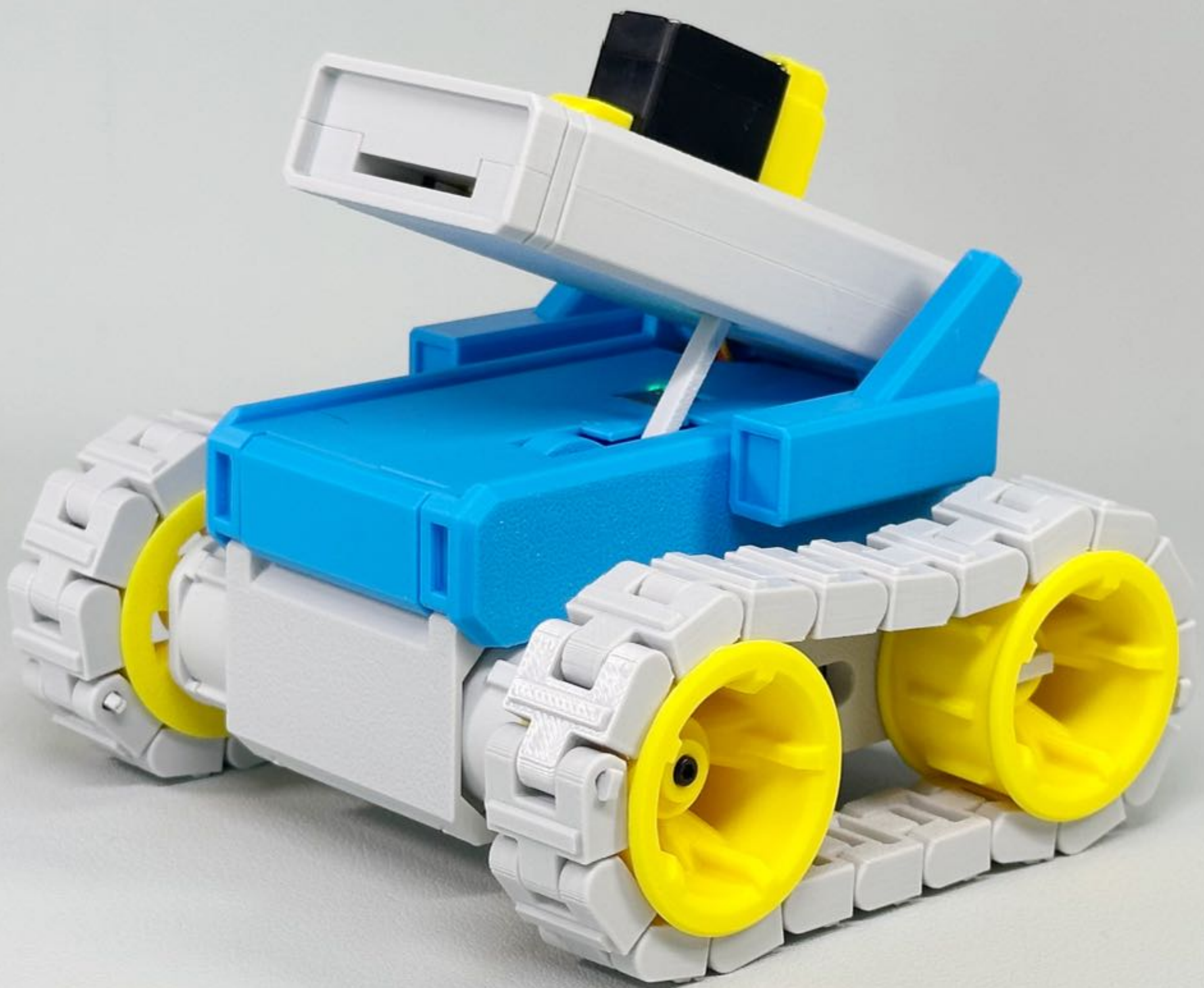


# Assembly Guide

## CyberBrick Mini T



@DDWMAKER




# Preparation


A remote control is required; it is recommended to use the official CyberBrick remote control.  
If you already have a remote control, please ensure its wiring method is consistent with that of the official remote control.




Makerworld link :  
<https://makerworld.com/en/models/1395991-cyberbrick-official-standard-remote?from=search#profileId-1446992>

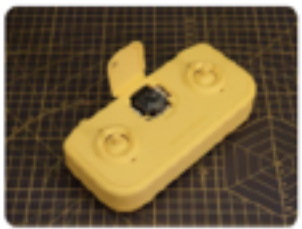





CyberBrick Official Standard Remote

CyberBrick  [Follow](#)



3D Preview



Print Profile (18)

<

All

X1E

A1


P1P

H2D




X1 Carbon


X1

P1S







CyberBrick Official Remote for X/P/A/H

Designer  4.8 h  2 plates  4.8 (941)







CyberBrick Standard Remote for A1mini

Designer  5.4 h  3 plates  4.9 (175)








Lithium Battery Version Standard Remote

Designer  4.6 h  2 plates  4.8 (100)



All BambuLab series in 2 Plates 2 Color

  5.3 h  2 plates  4.8 (38)

Click to see more 

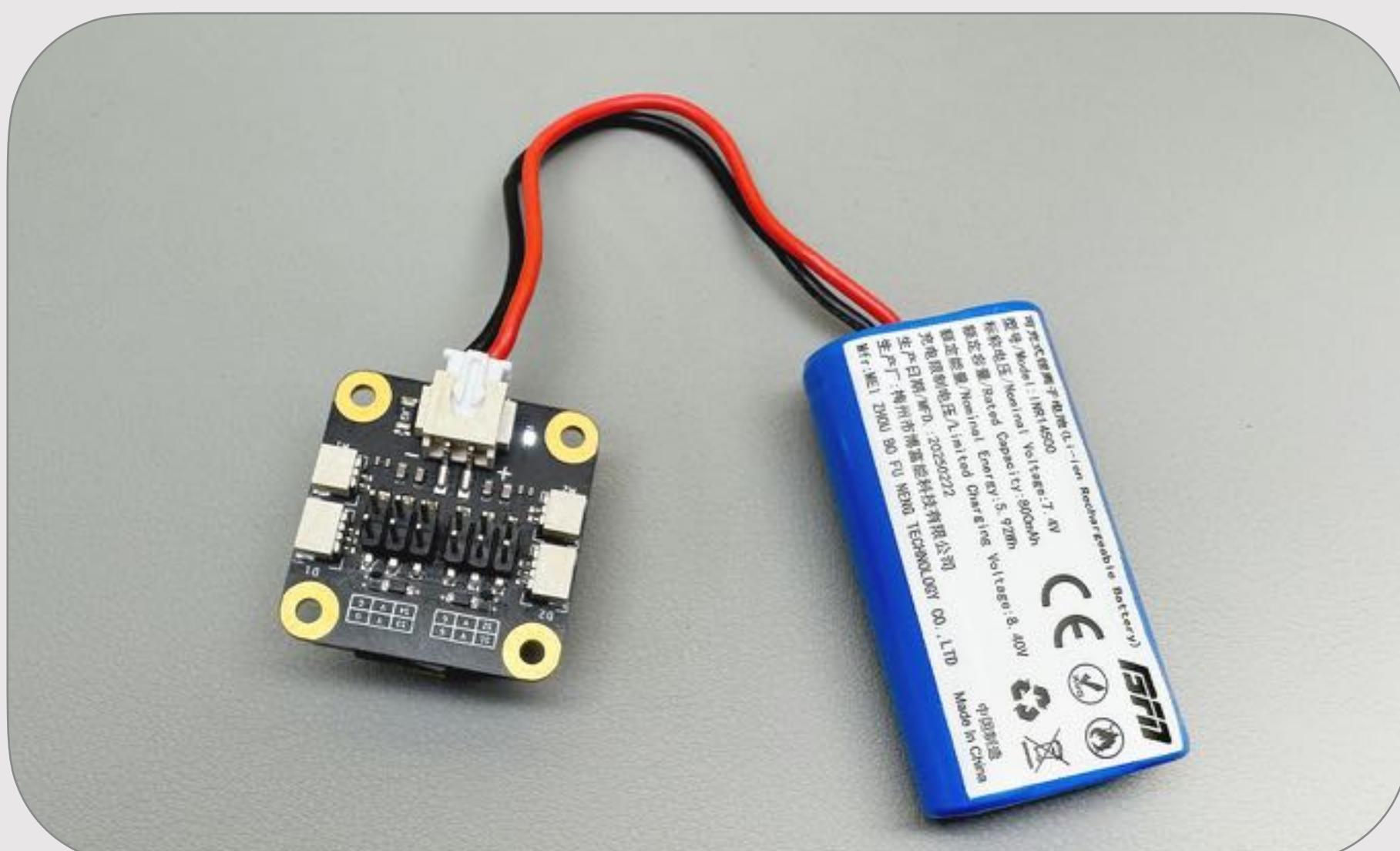
Download 3MF



Turn on the power switch of the remote control.  
There are two remote control models.



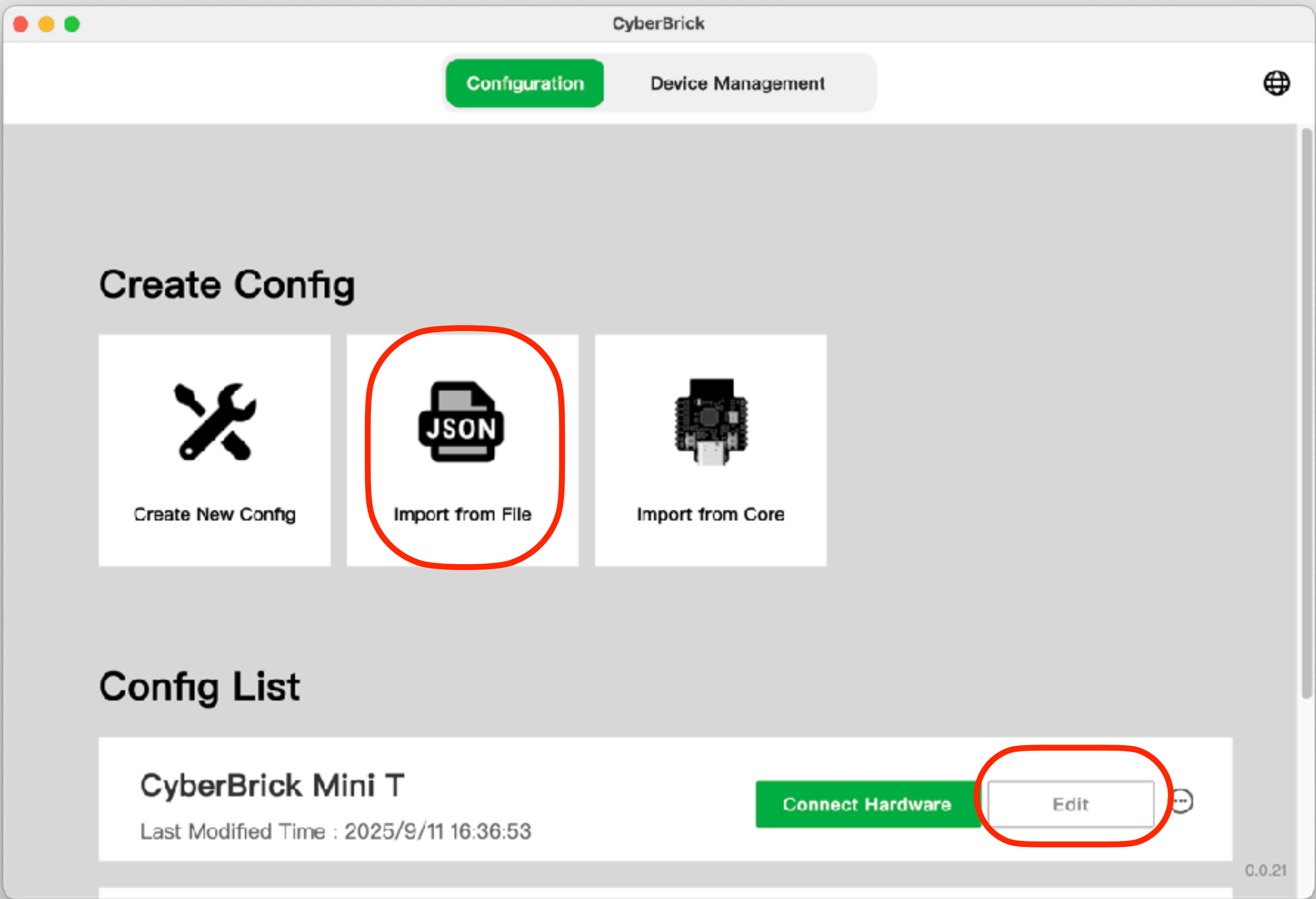
Connect the receiver board to the battery.



# Pair and Send Config (PC)

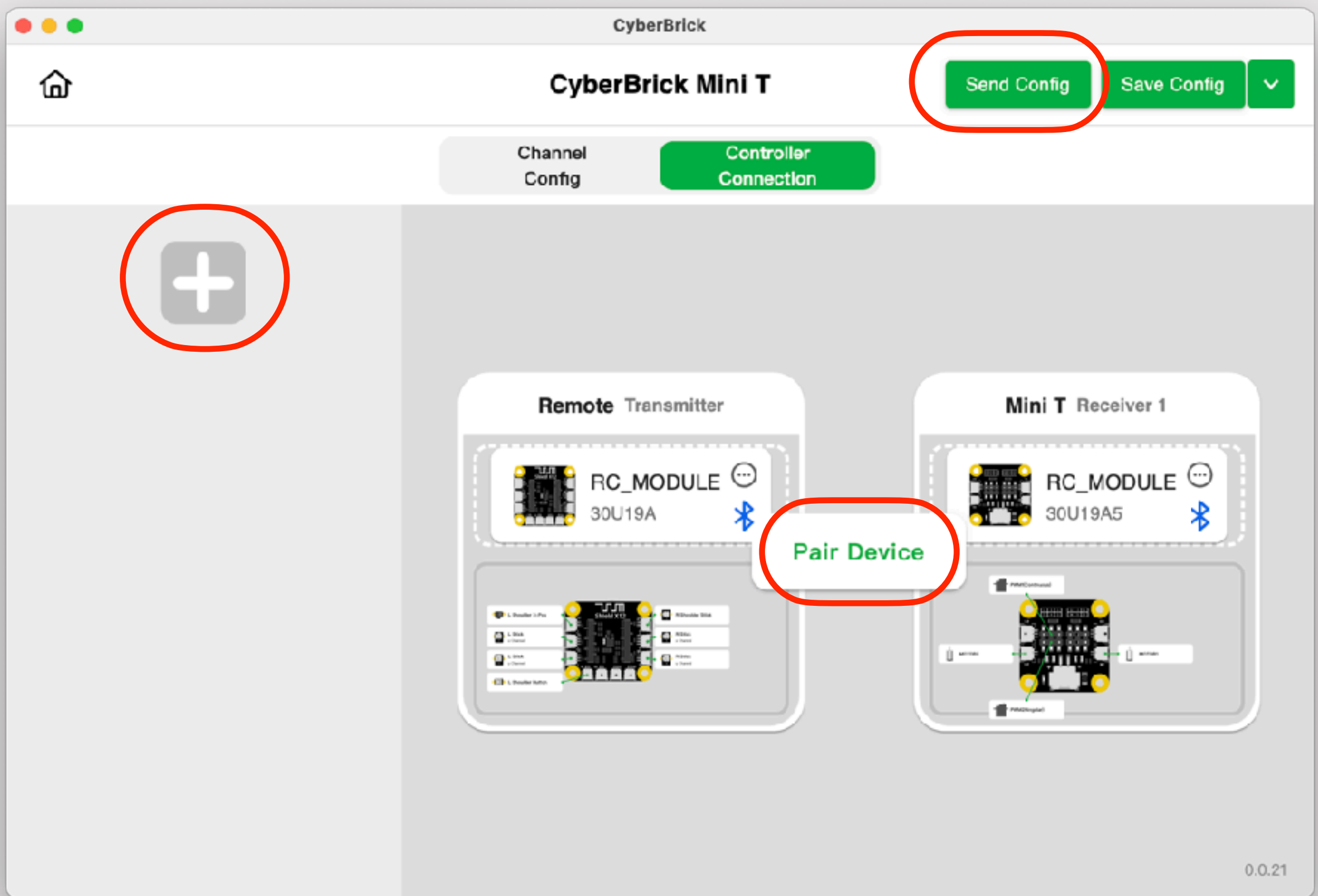
Turn on the power of the remote control, and connect the battery to the receiver board.

Import the "CyberBrick Mini T" configuration file, then click the "Edit".



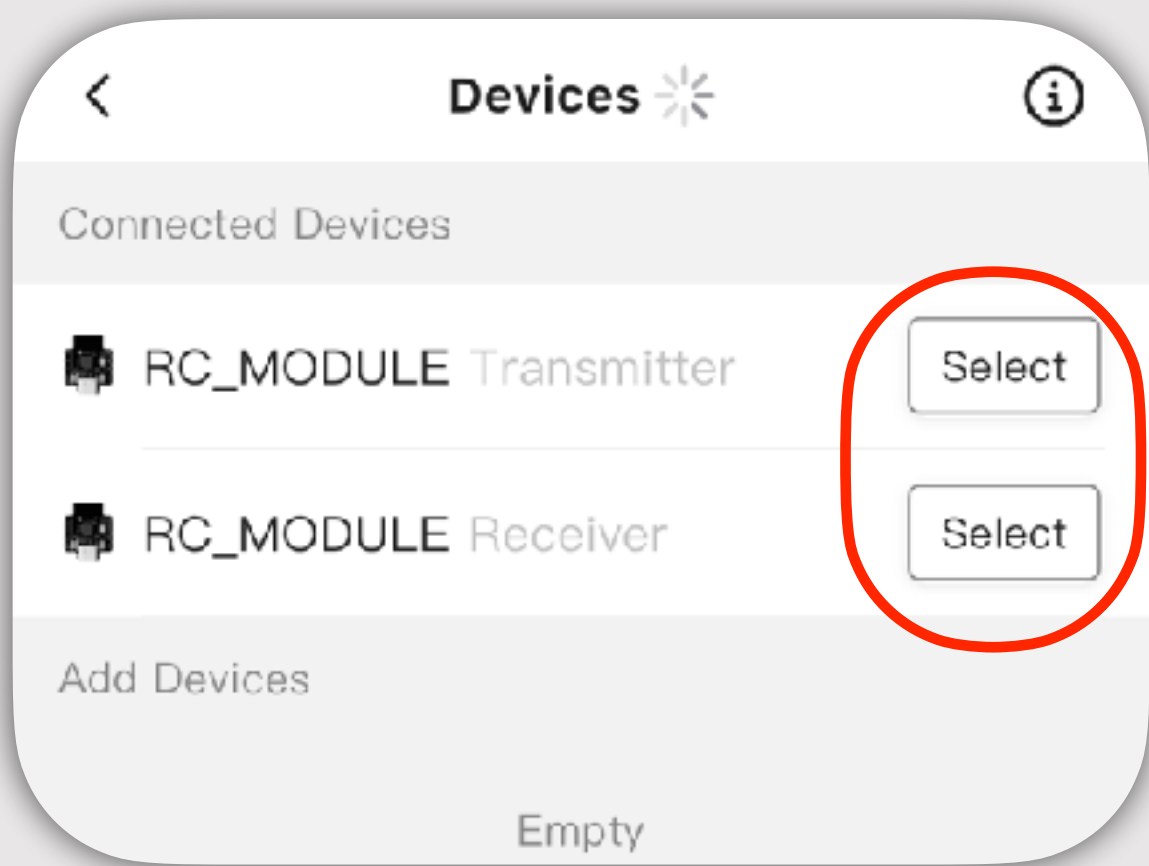
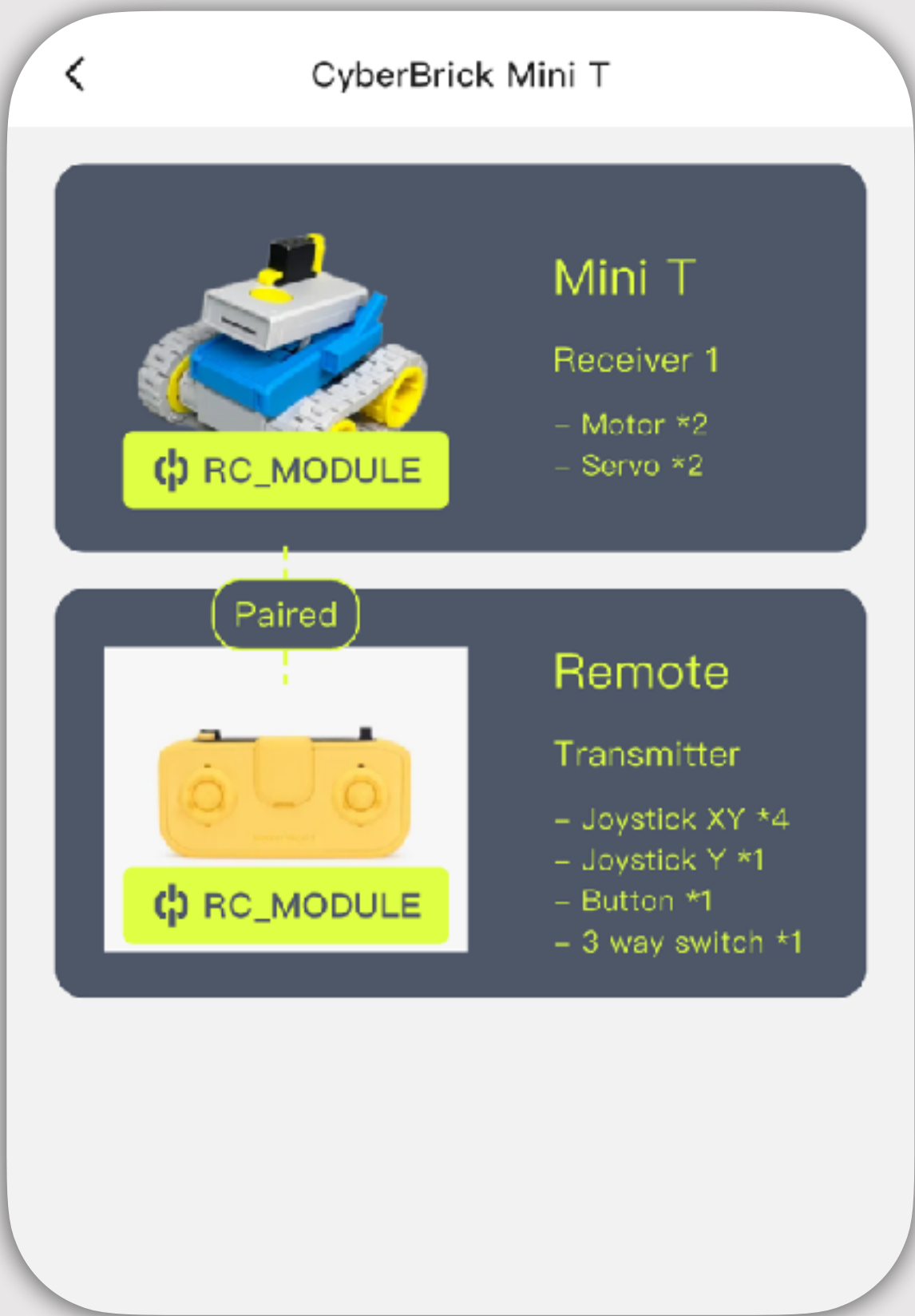
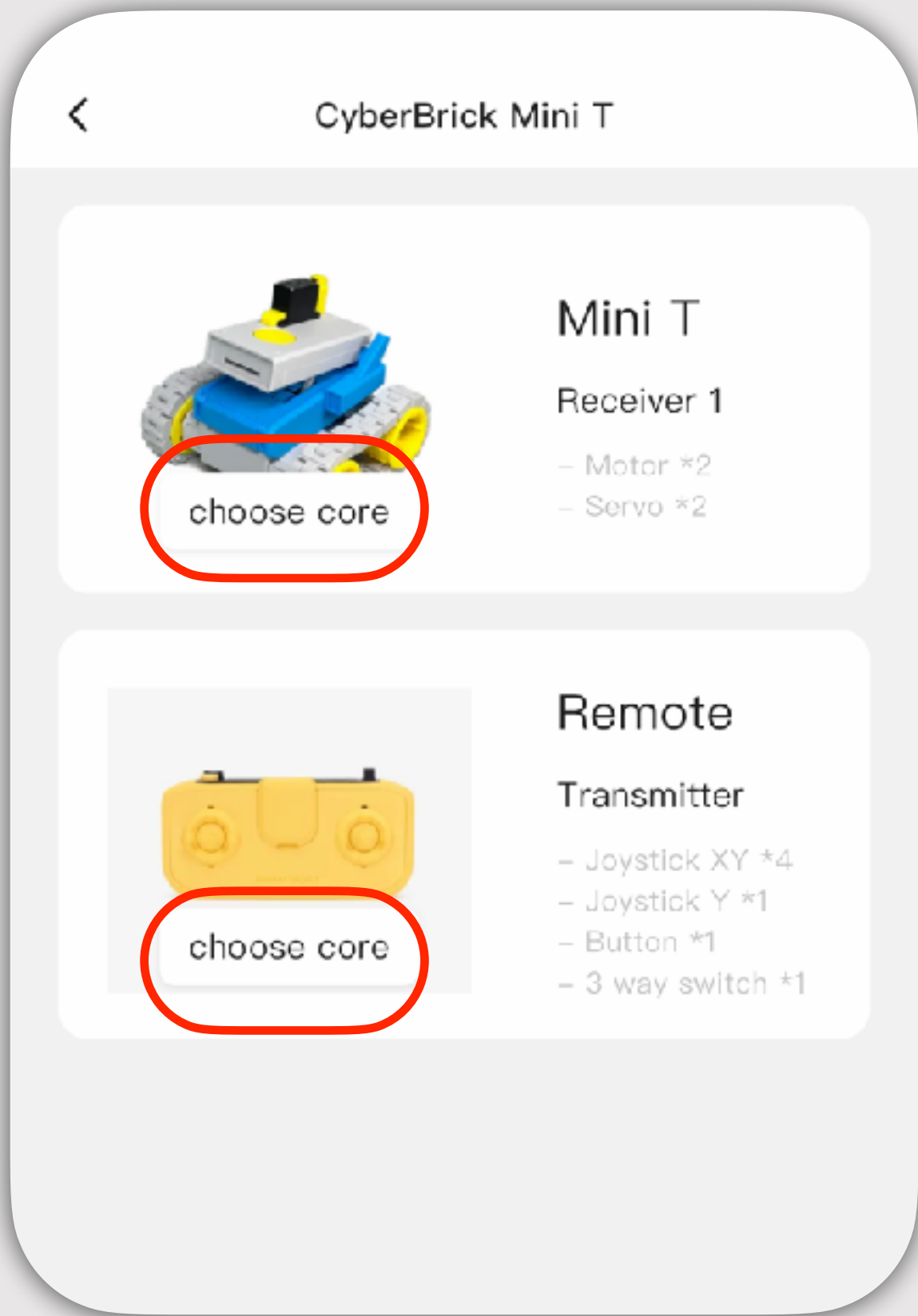
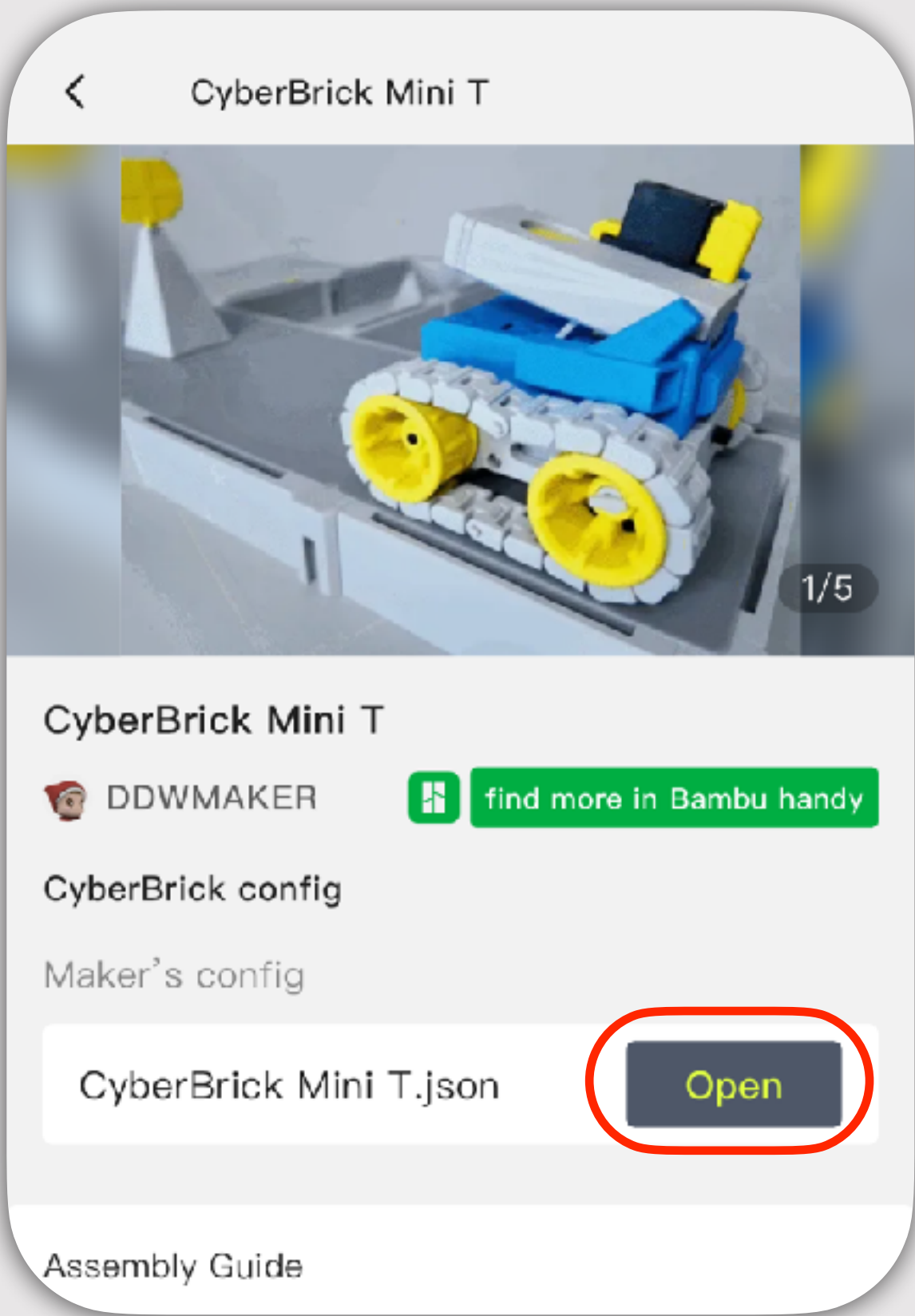
Click the “+” to pair the core board.

Then drag the core to the corresponding position on the right, and click "Pair Device" and "Send Config".





# Pair and Send Config (APP)

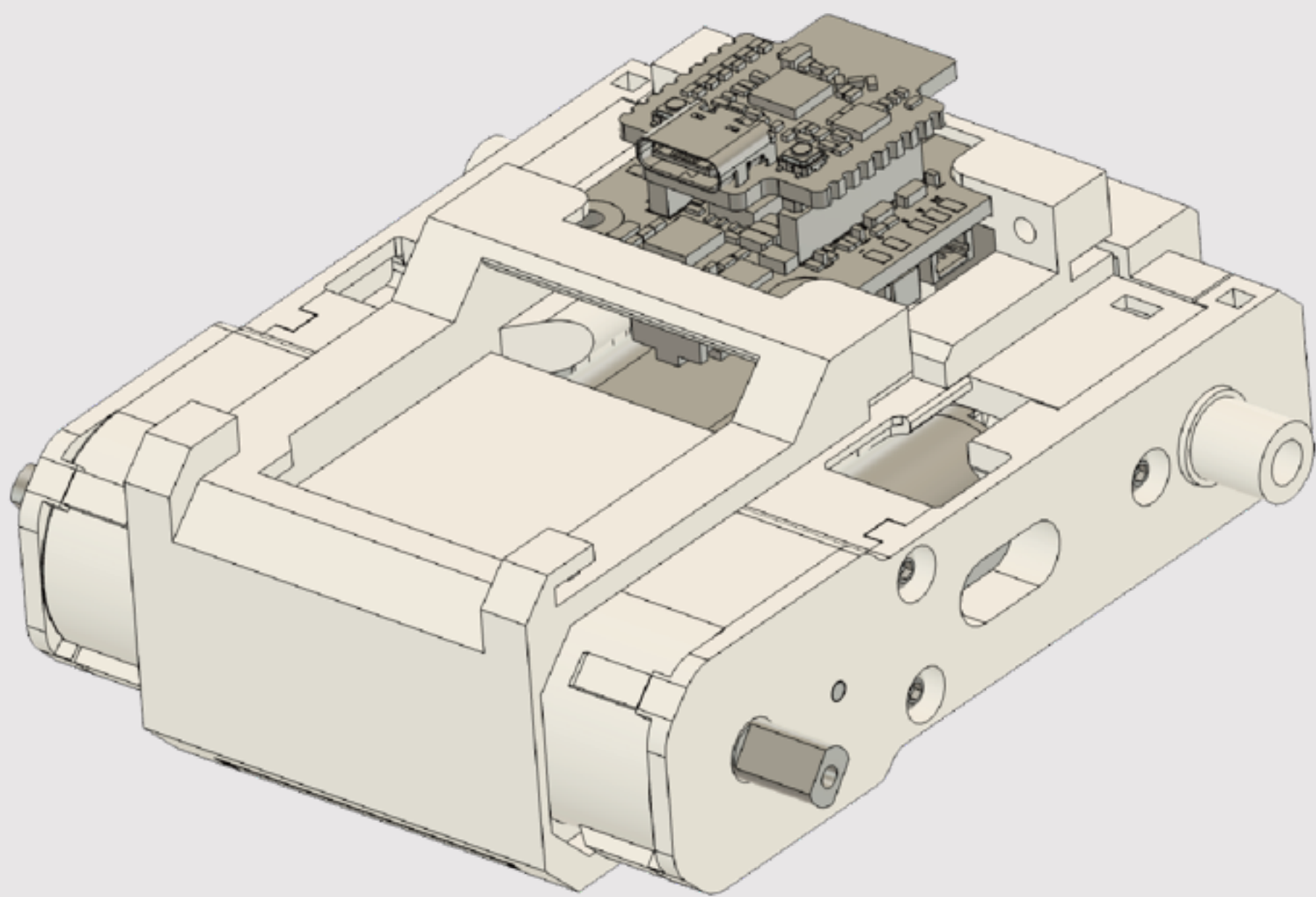


Select and add the core board in the order shown in the diagram. The App will automatically send config and Pair during the process of connecting to the core board.

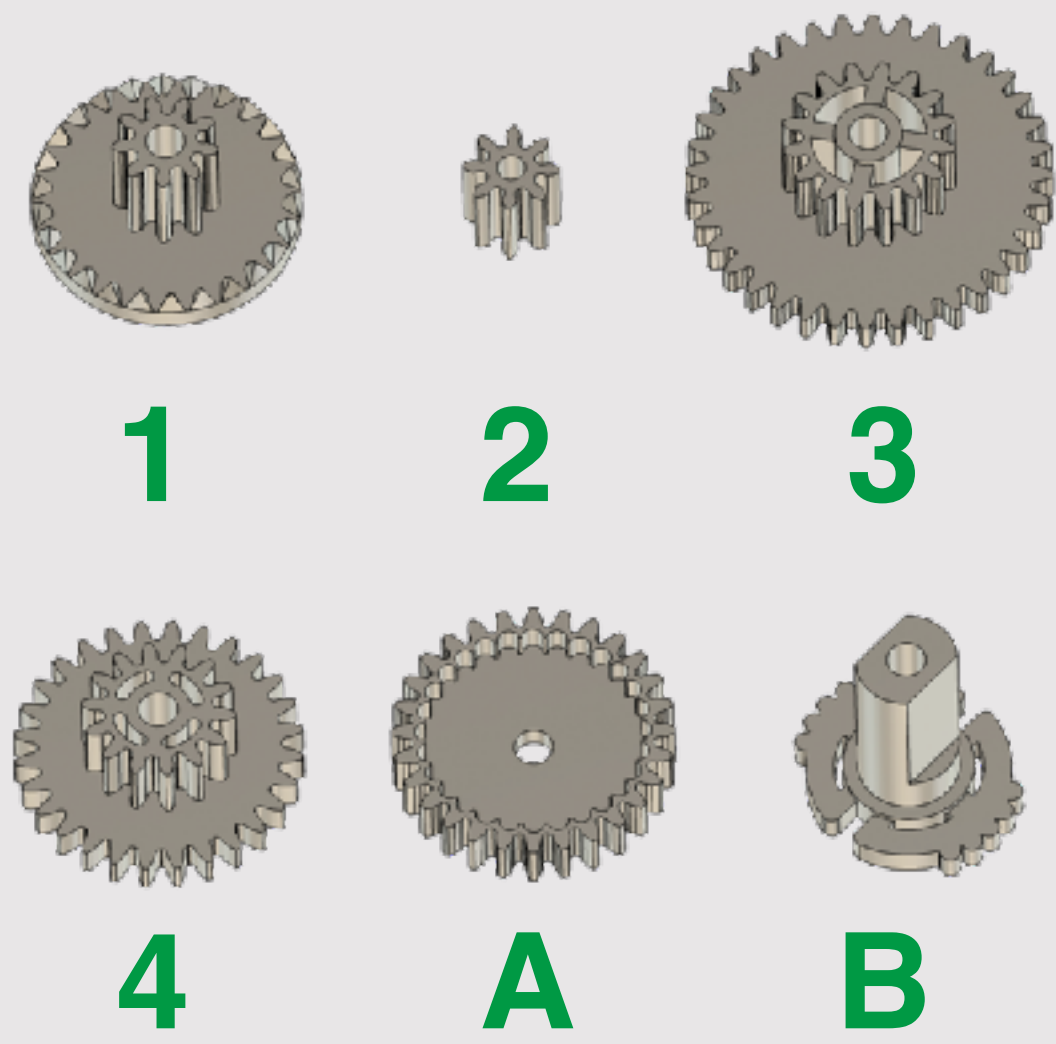
Completed



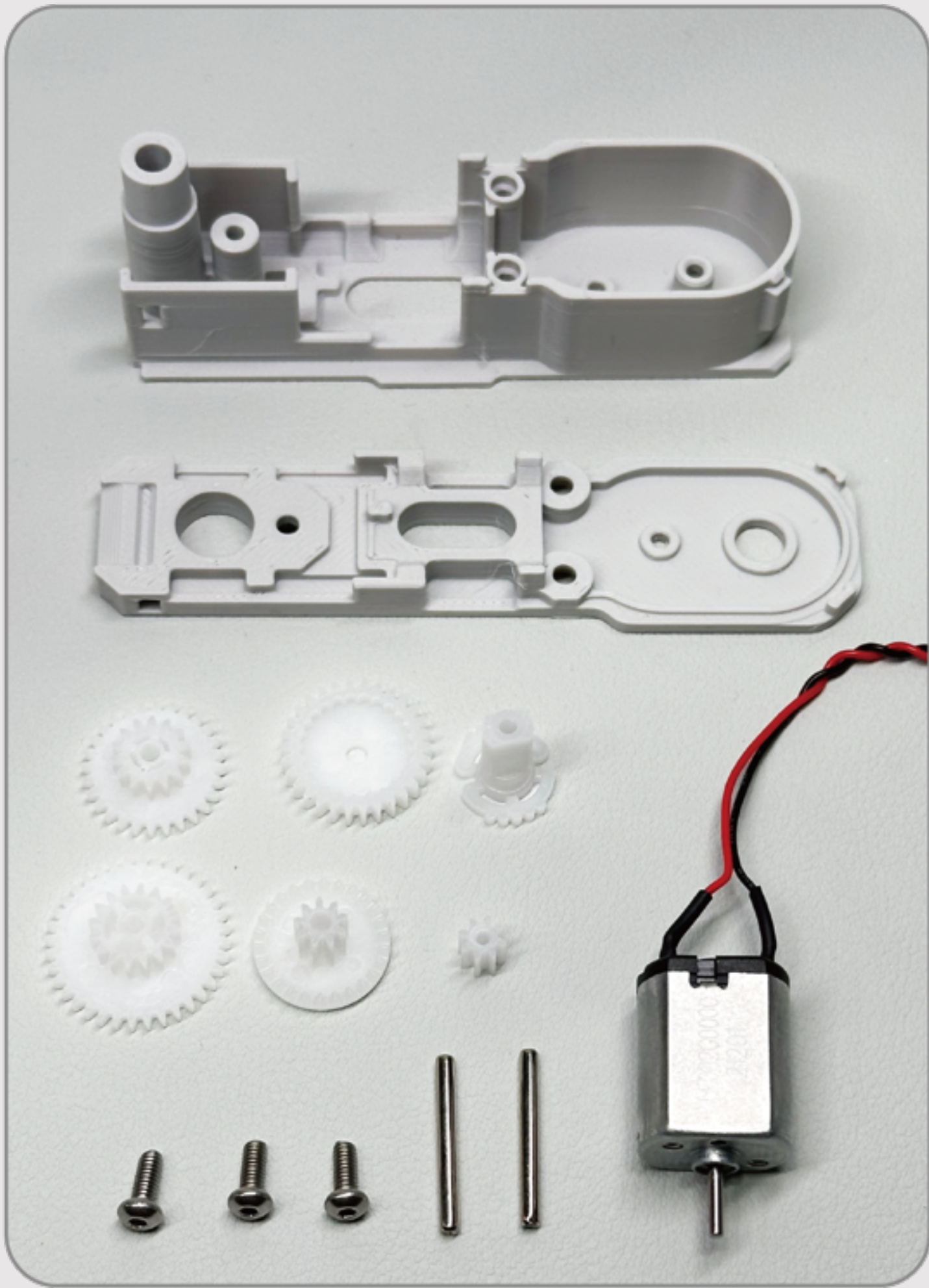
# Chassis



1:48 Single-axis Plastic Reduction Gear Kit

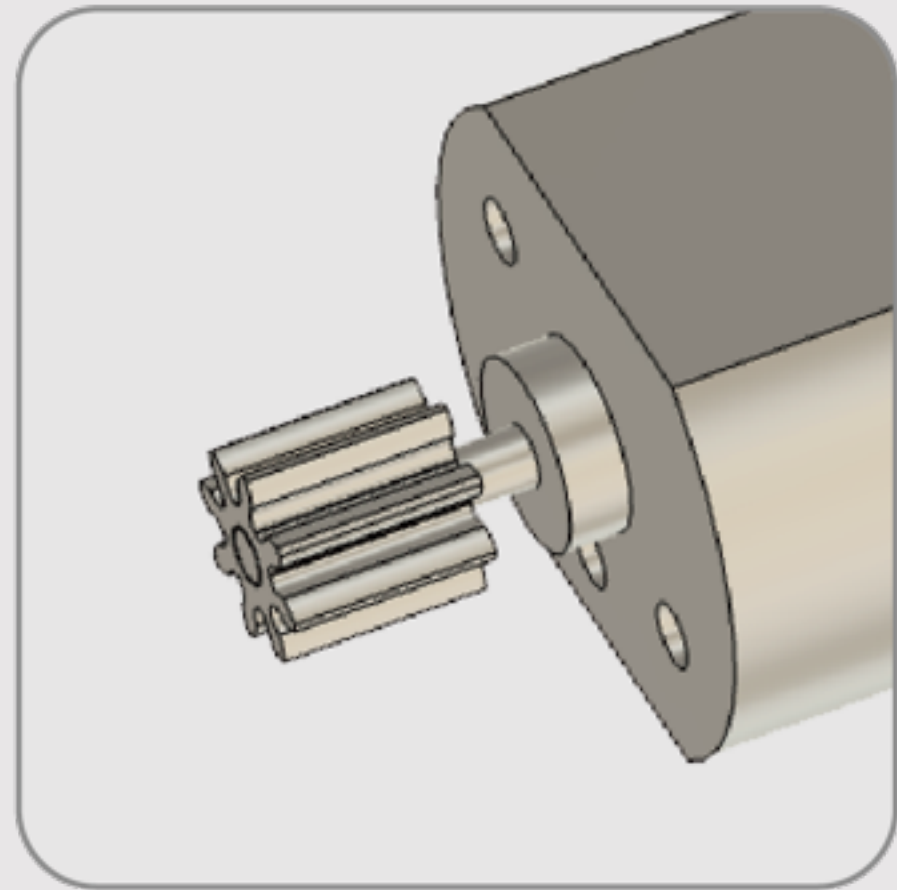
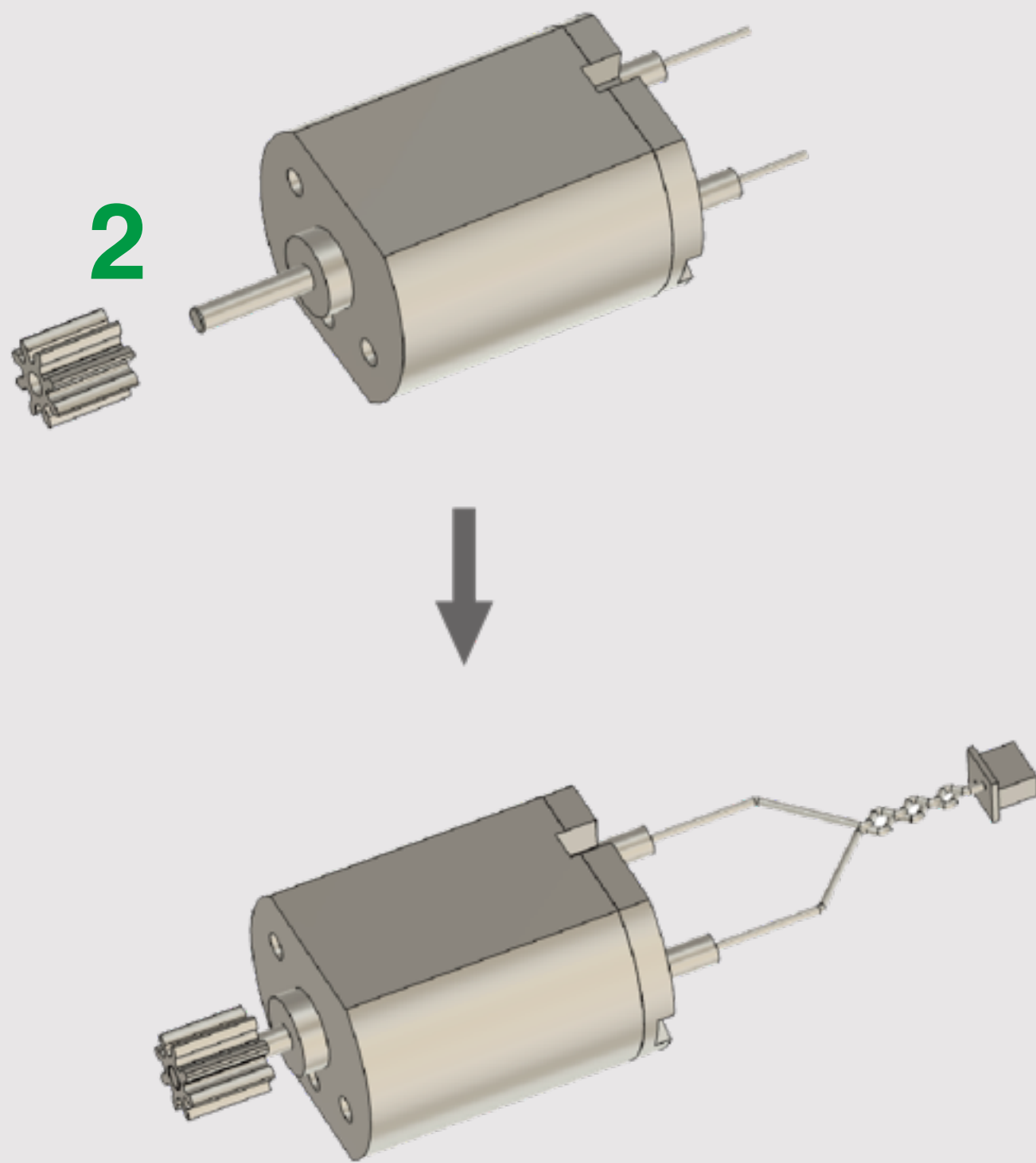


Please note the gear numbers; refer to them for subsequent assembly steps.



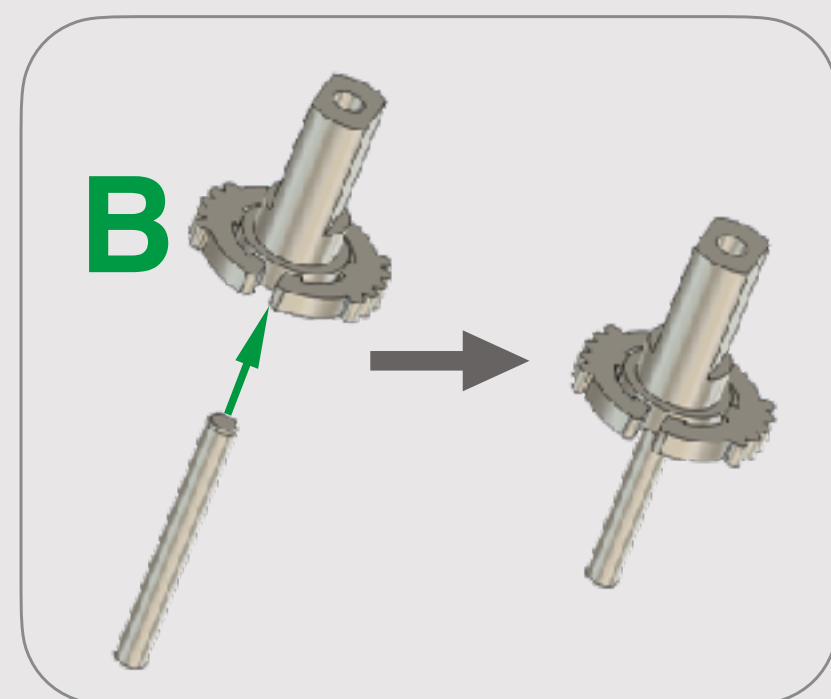
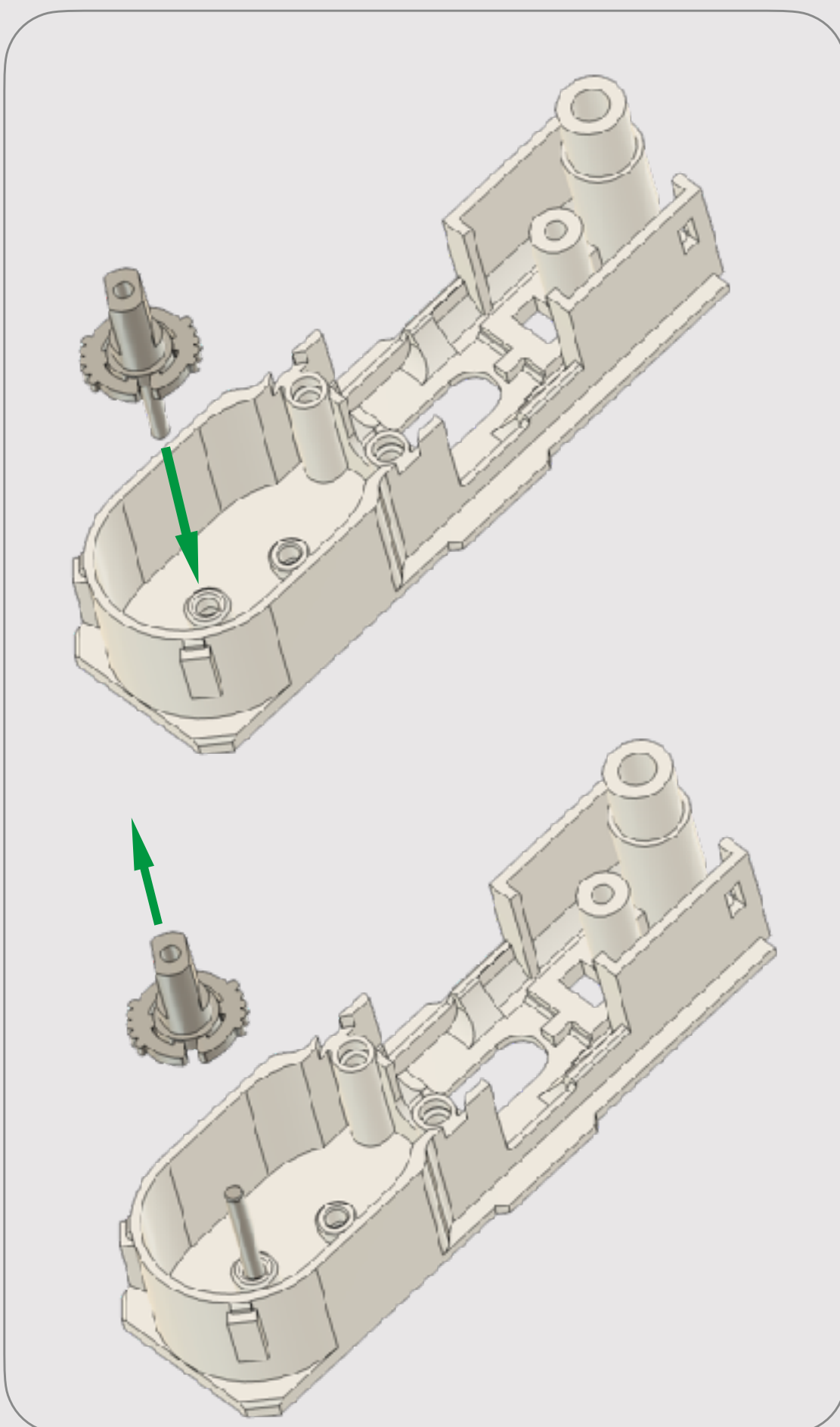


# 1

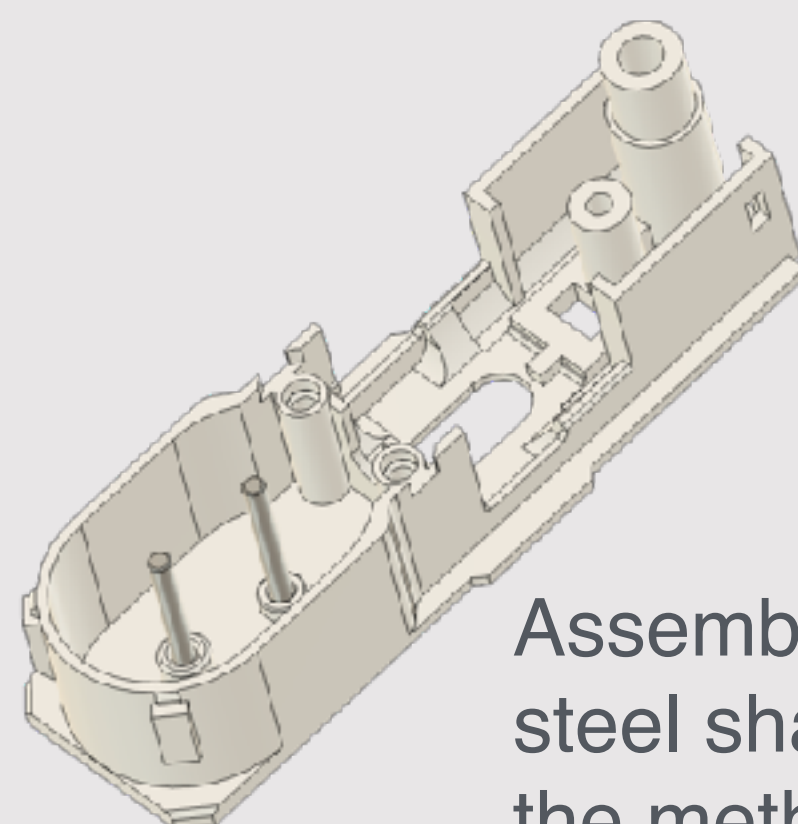


Mount the gear onto the motor shaft using a flat surface, and note that the gear only needs to be flush with the top of the shaft.

# 2



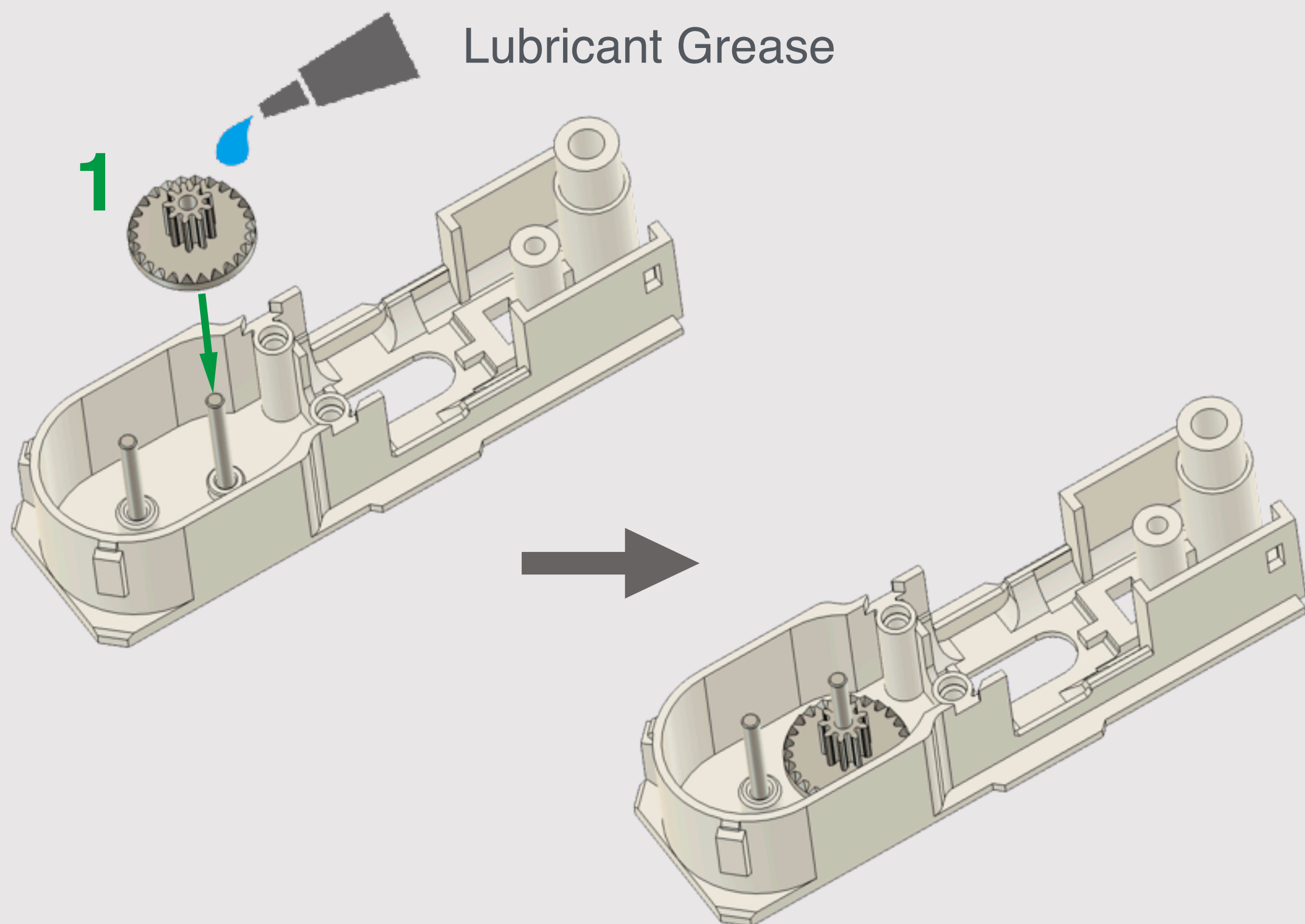
You can use Gear B to press the steel shaft during assembly.



Assemble the two steel shafts following the method shown in the left diagram.

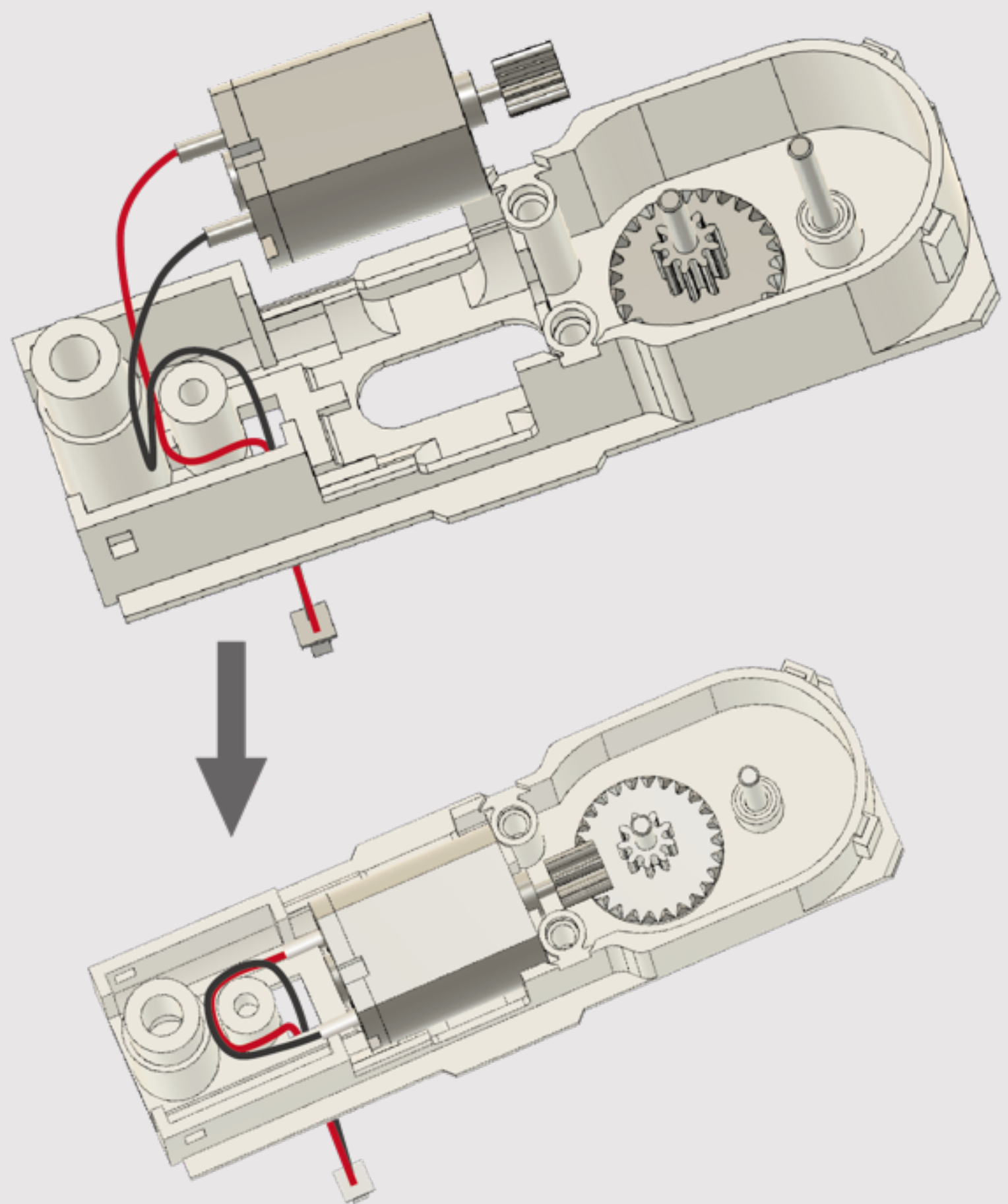
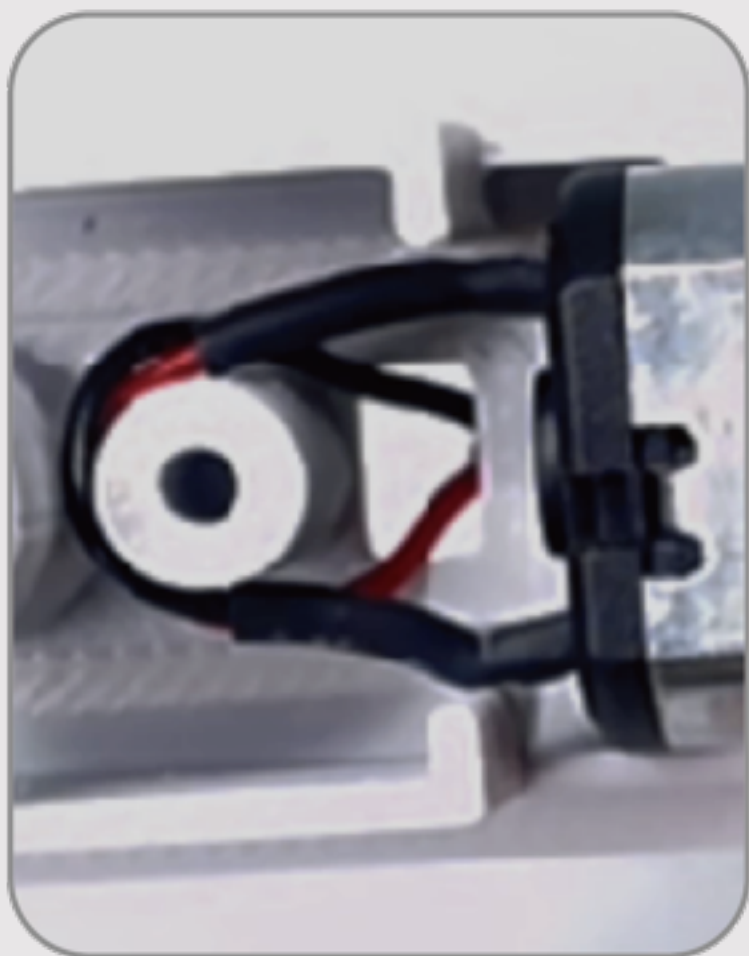


3



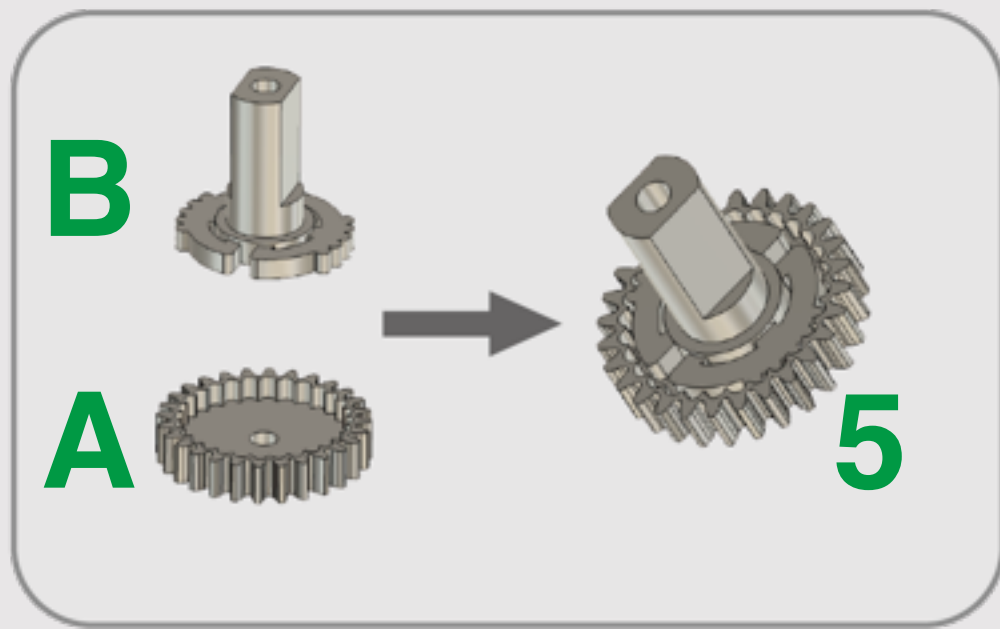
4

The wires are routed around both sides of the screw post.

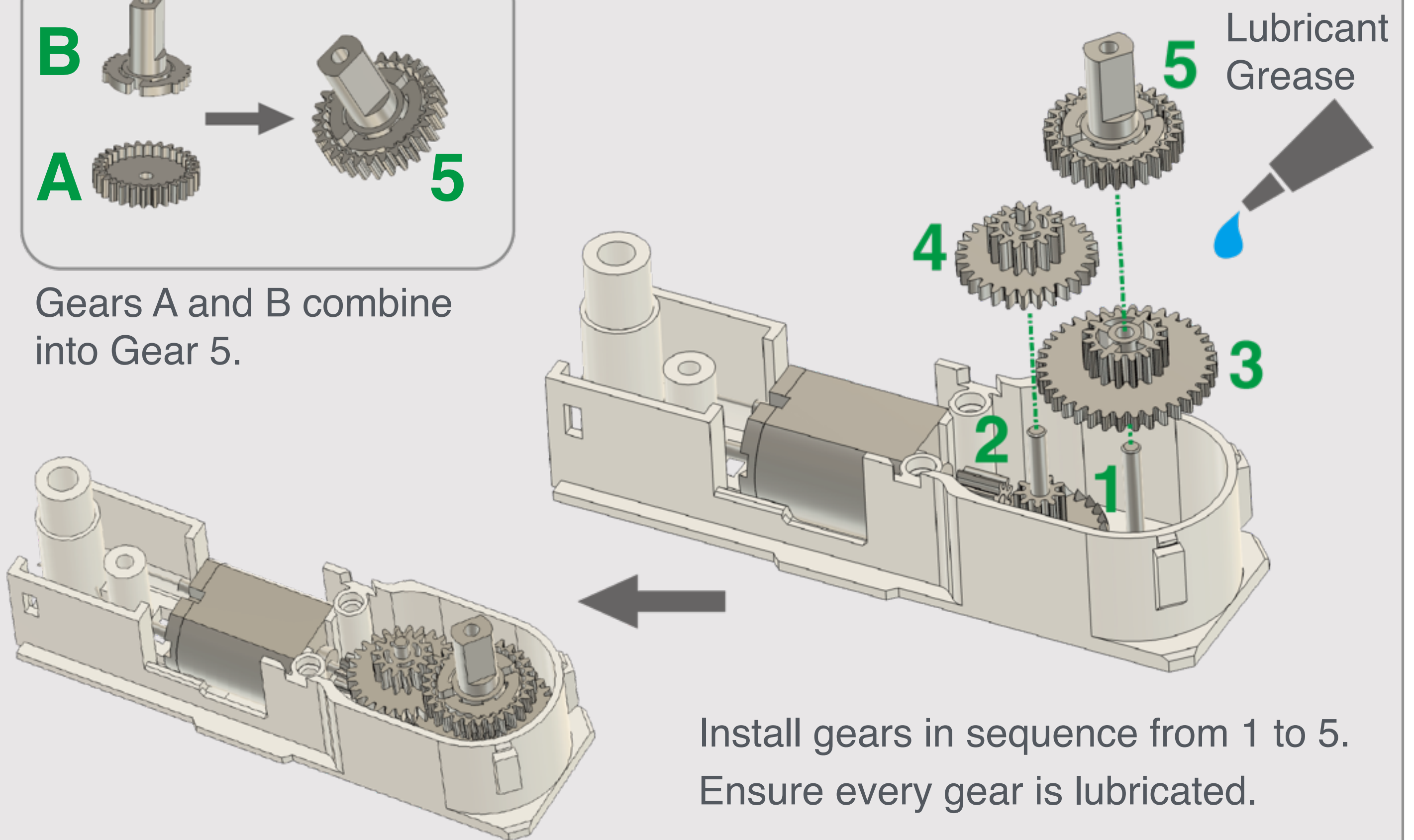




# 5



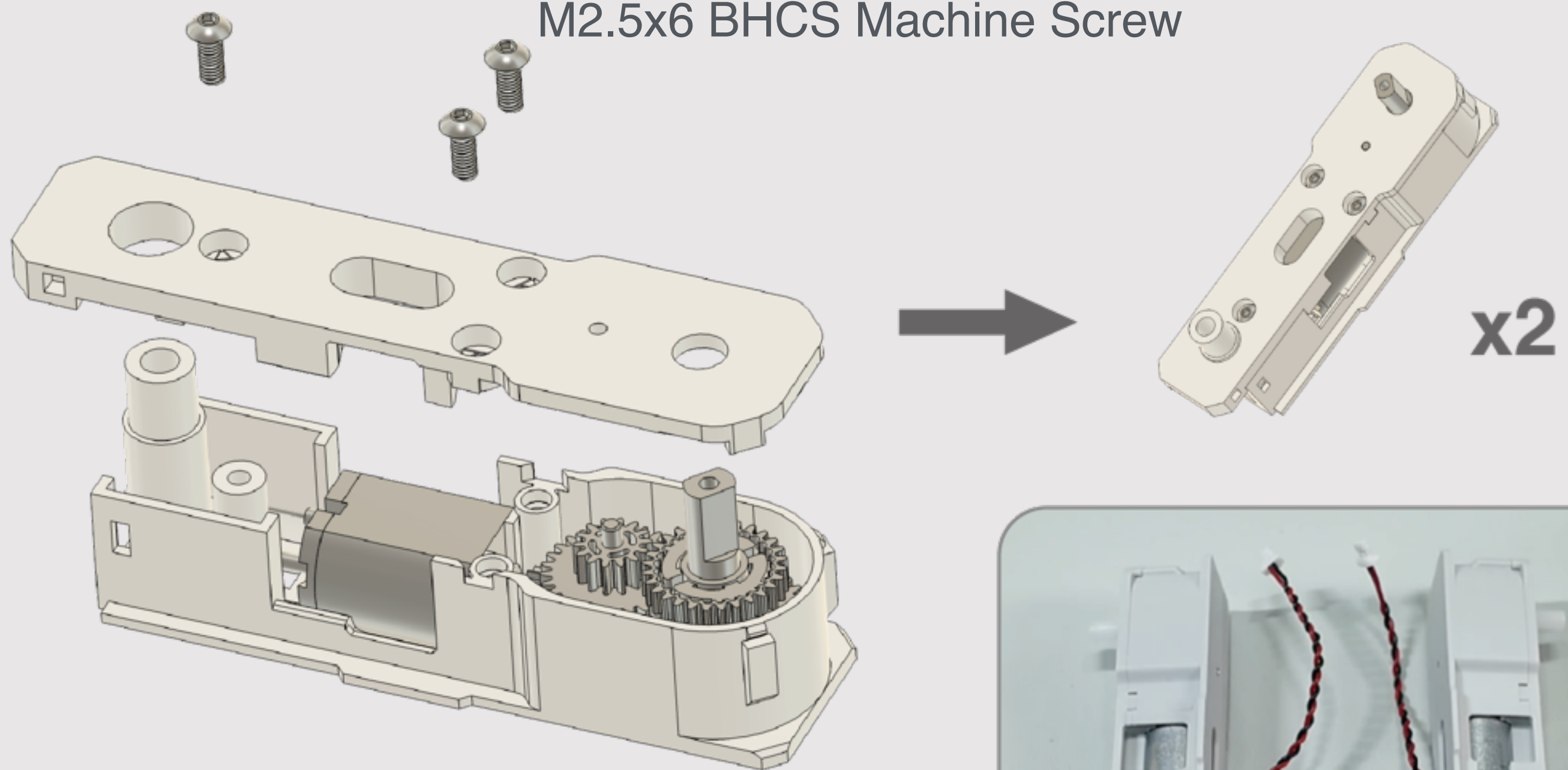
Gears A and B combine into Gear 5.



Install gears in sequence from 1 to 5. Ensure every gear is lubricated.

# 6

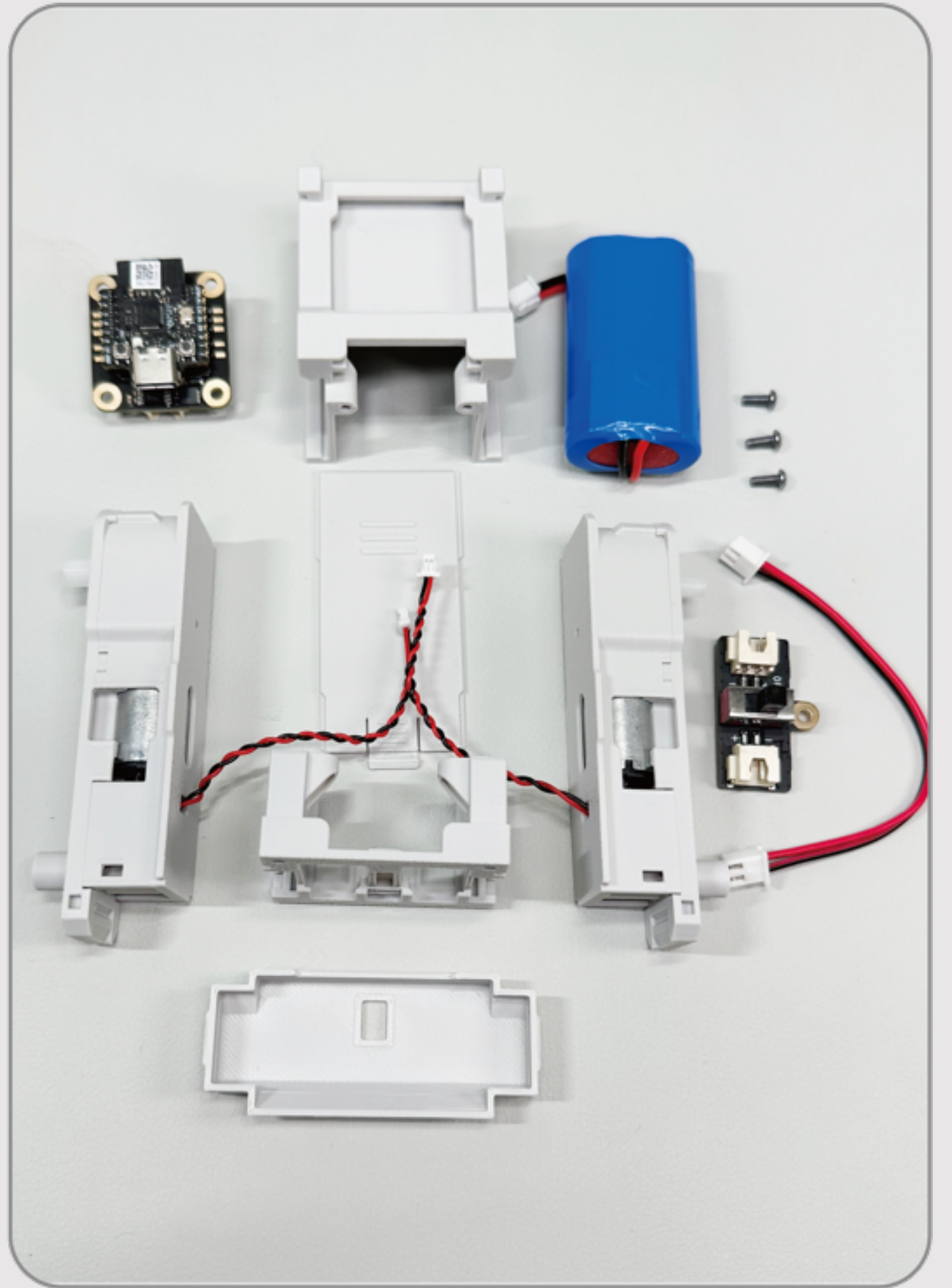
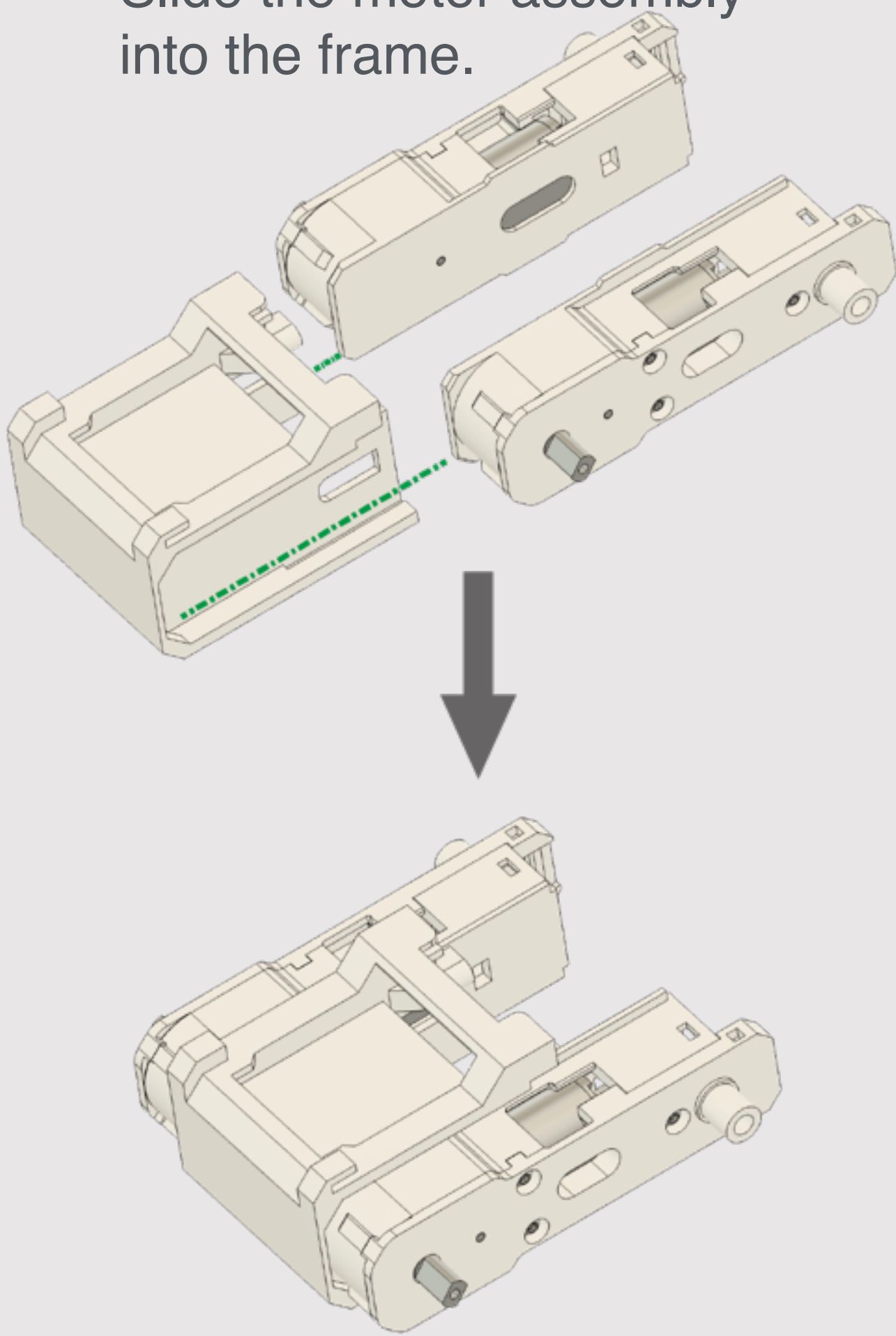
M2.5x6 BHCS Machine Screw





7

Slide the motor assembly into the frame.

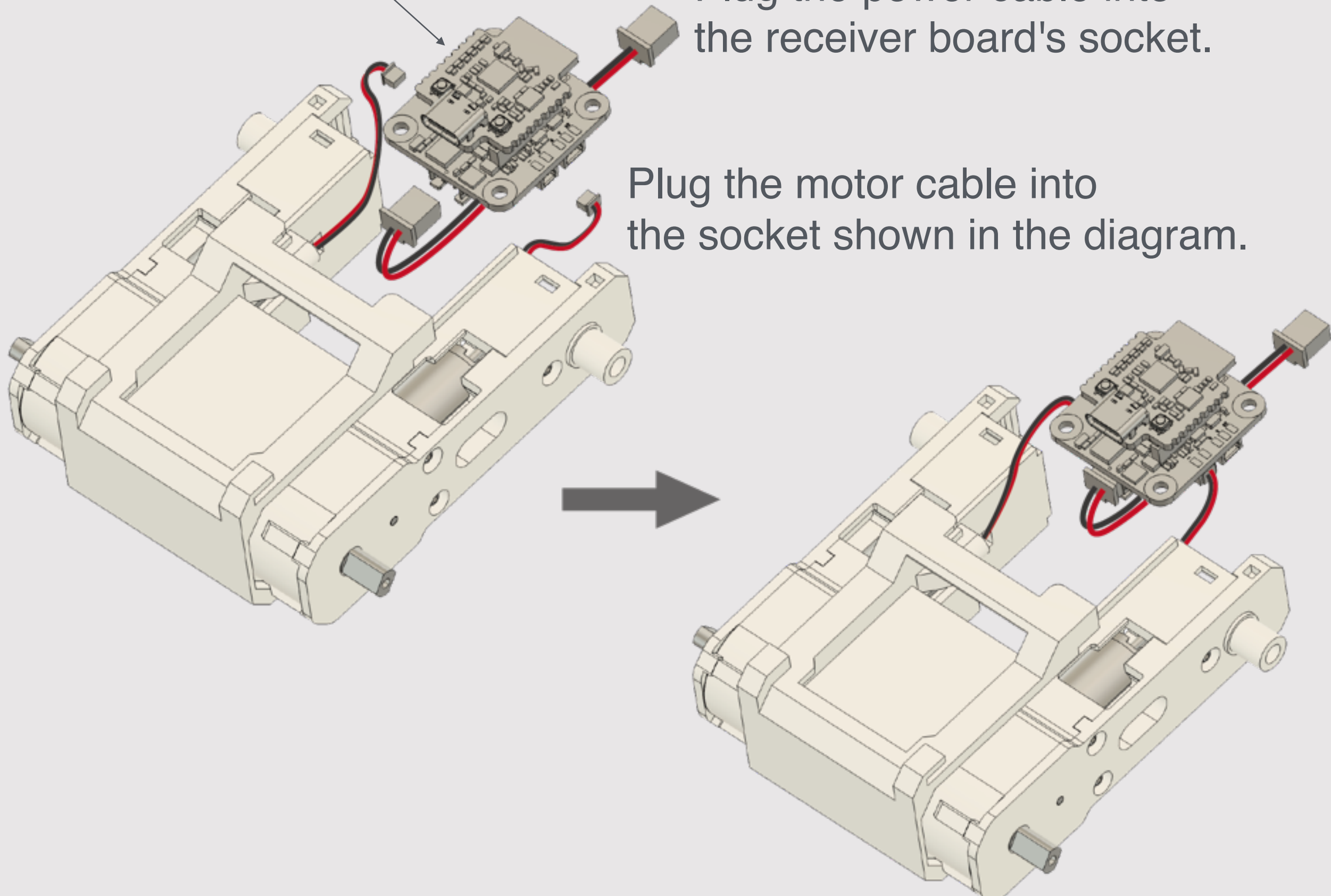


8

Receiver Board

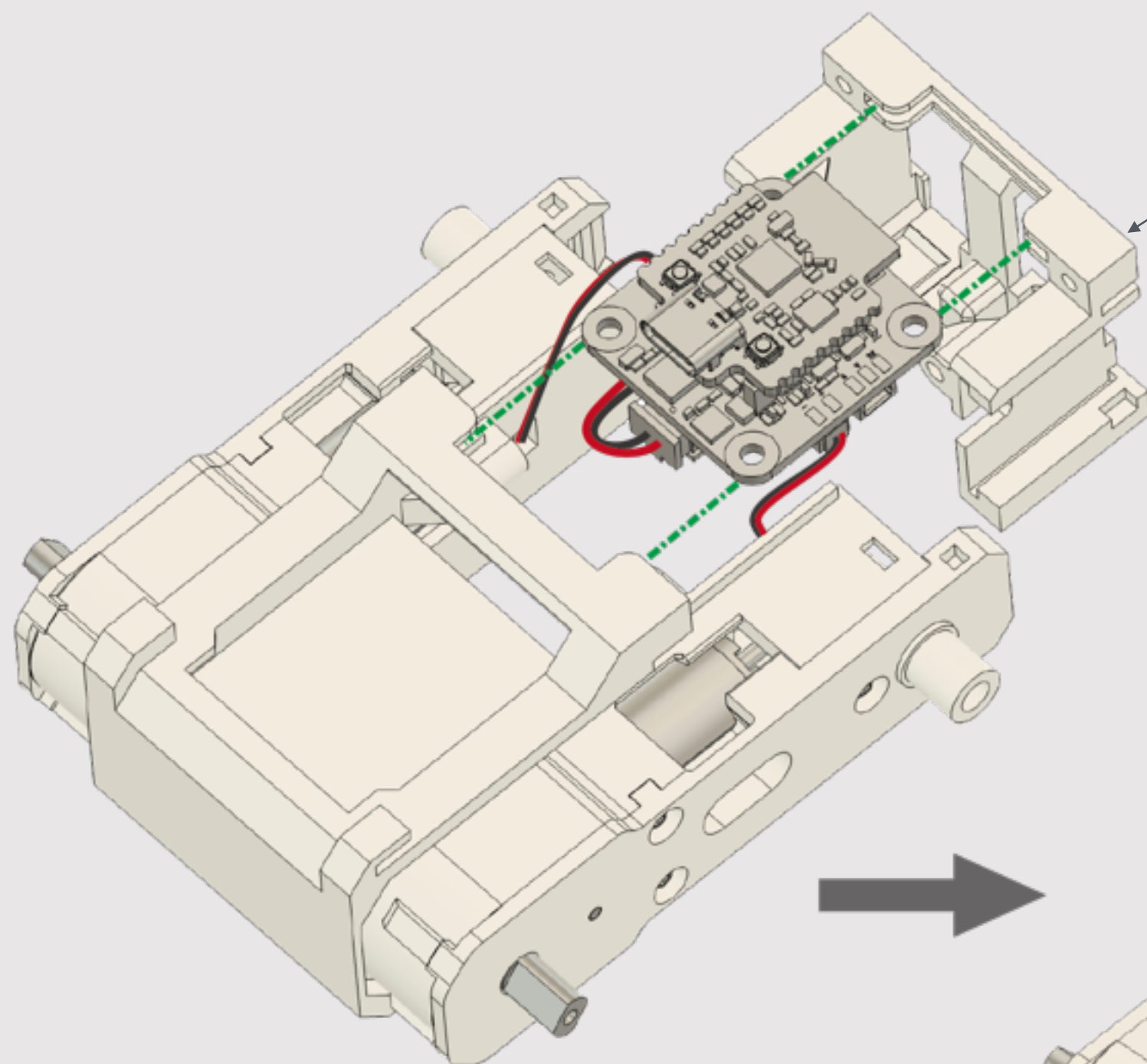
Plug the power cable into the receiver board's socket.

Plug the motor cable into the socket shown in the diagram.





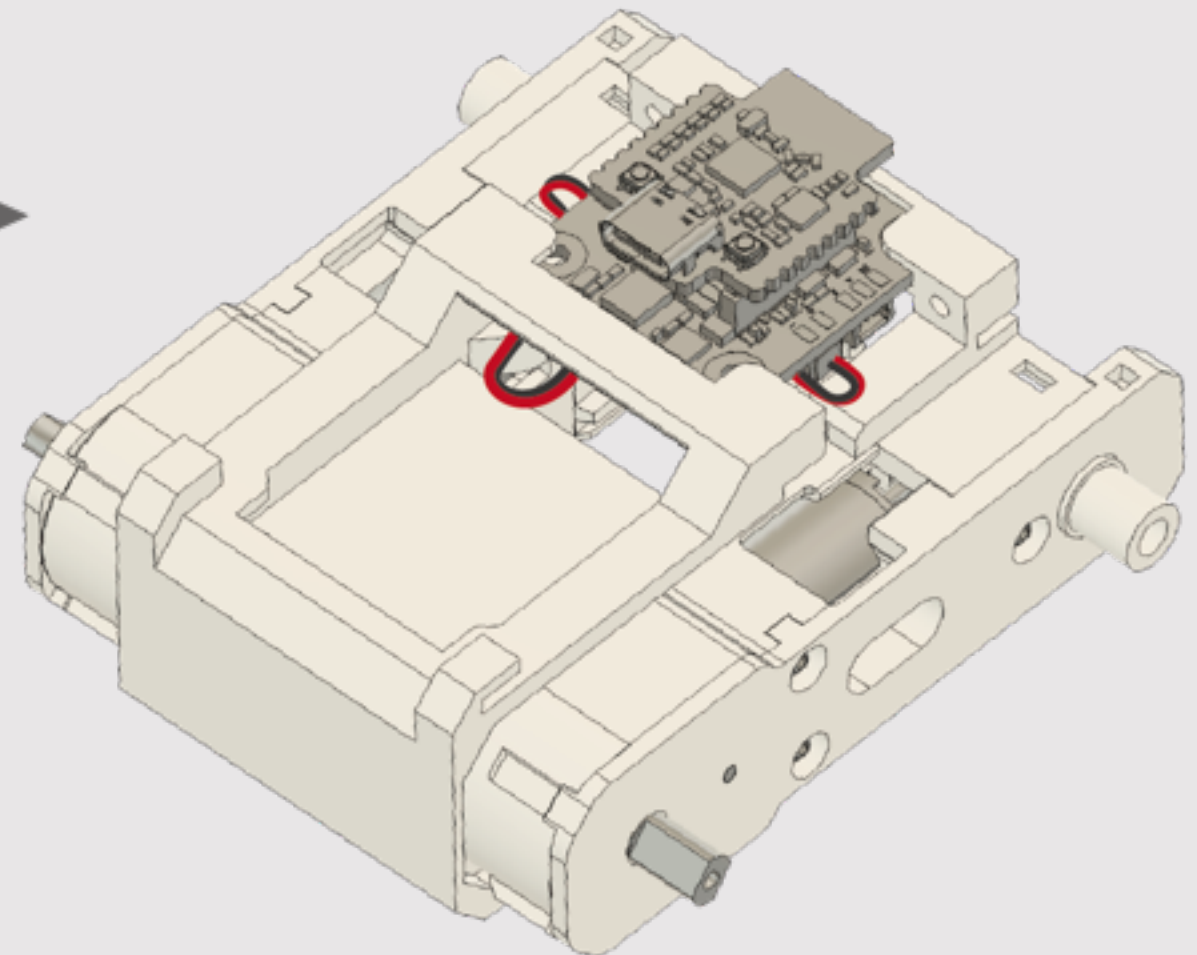
9



Rear Frame

Slide and install the rear frame according to the diagram, and snap the receiver board into the slot shown in the diagram.

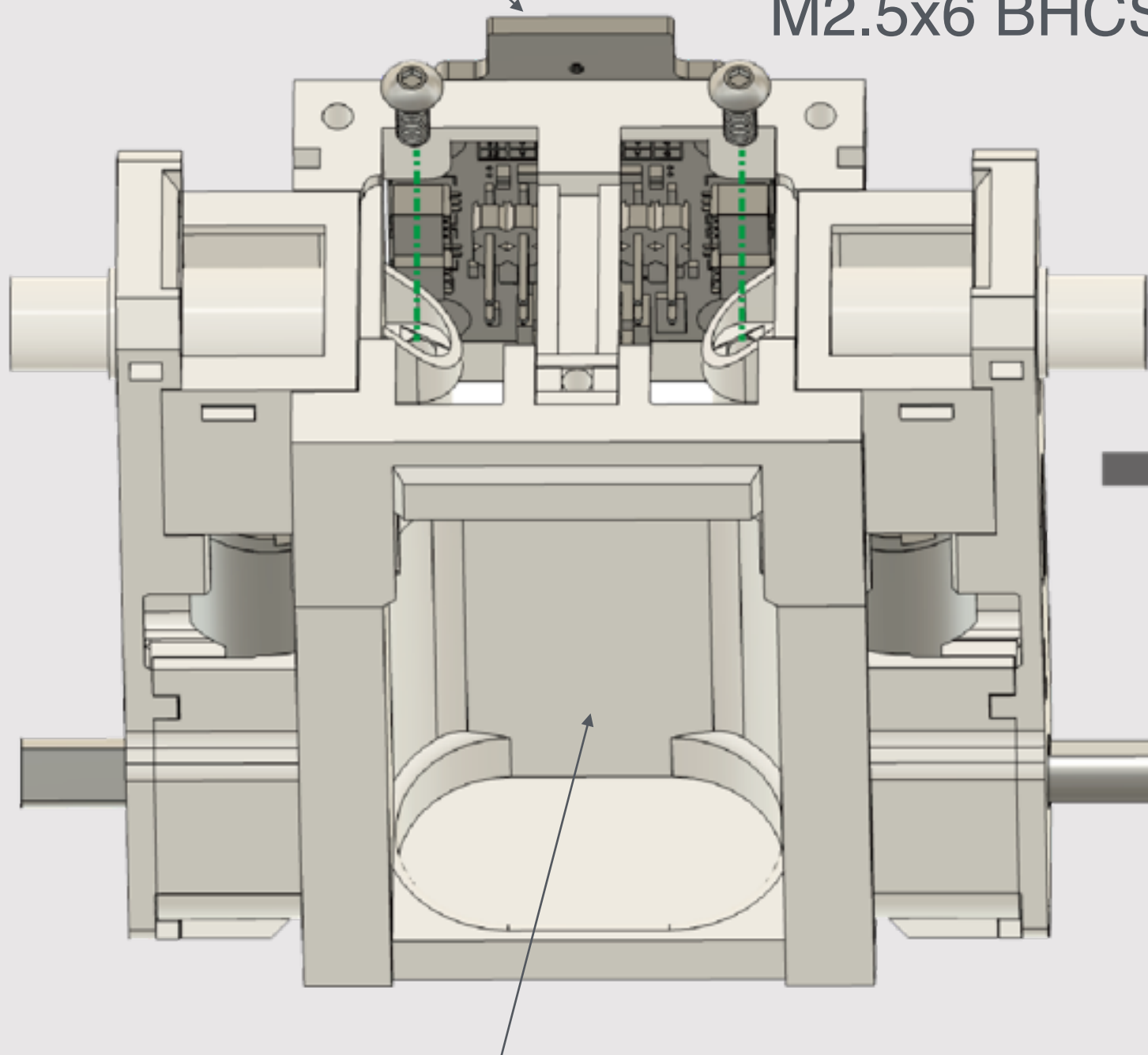
Be careful not to pinch the cables during installation.



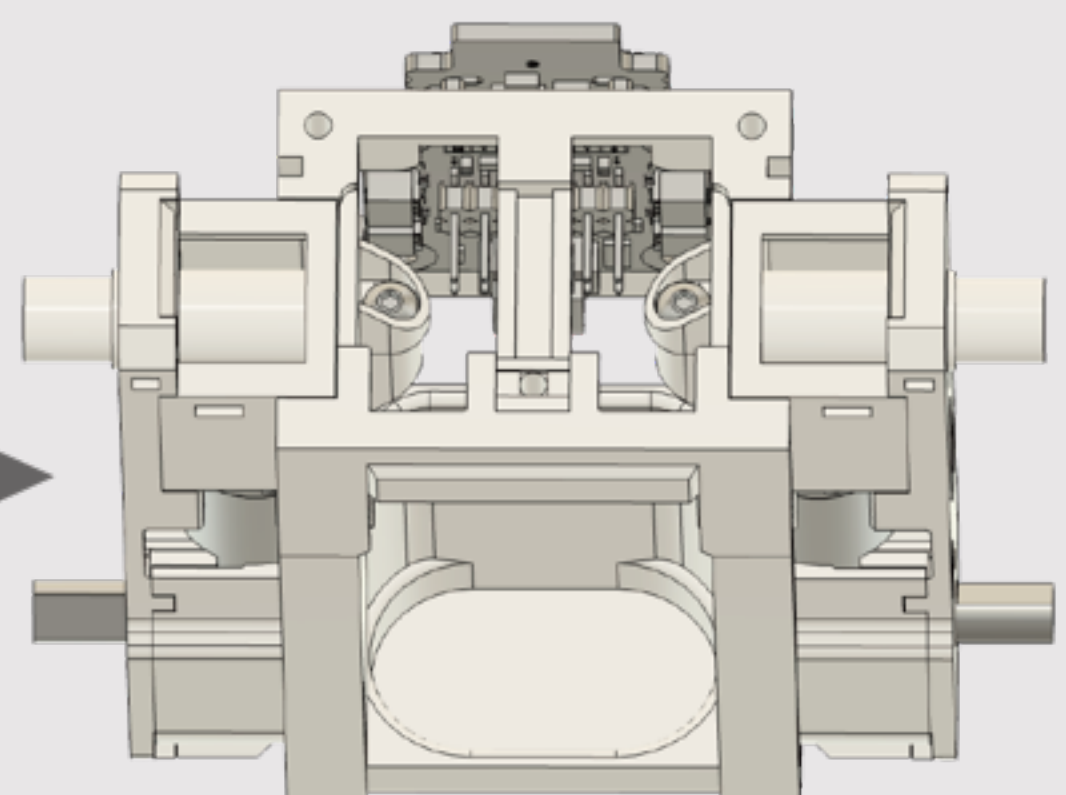
10

Receiver Board

M2.5x6 BHCS Machine Screw



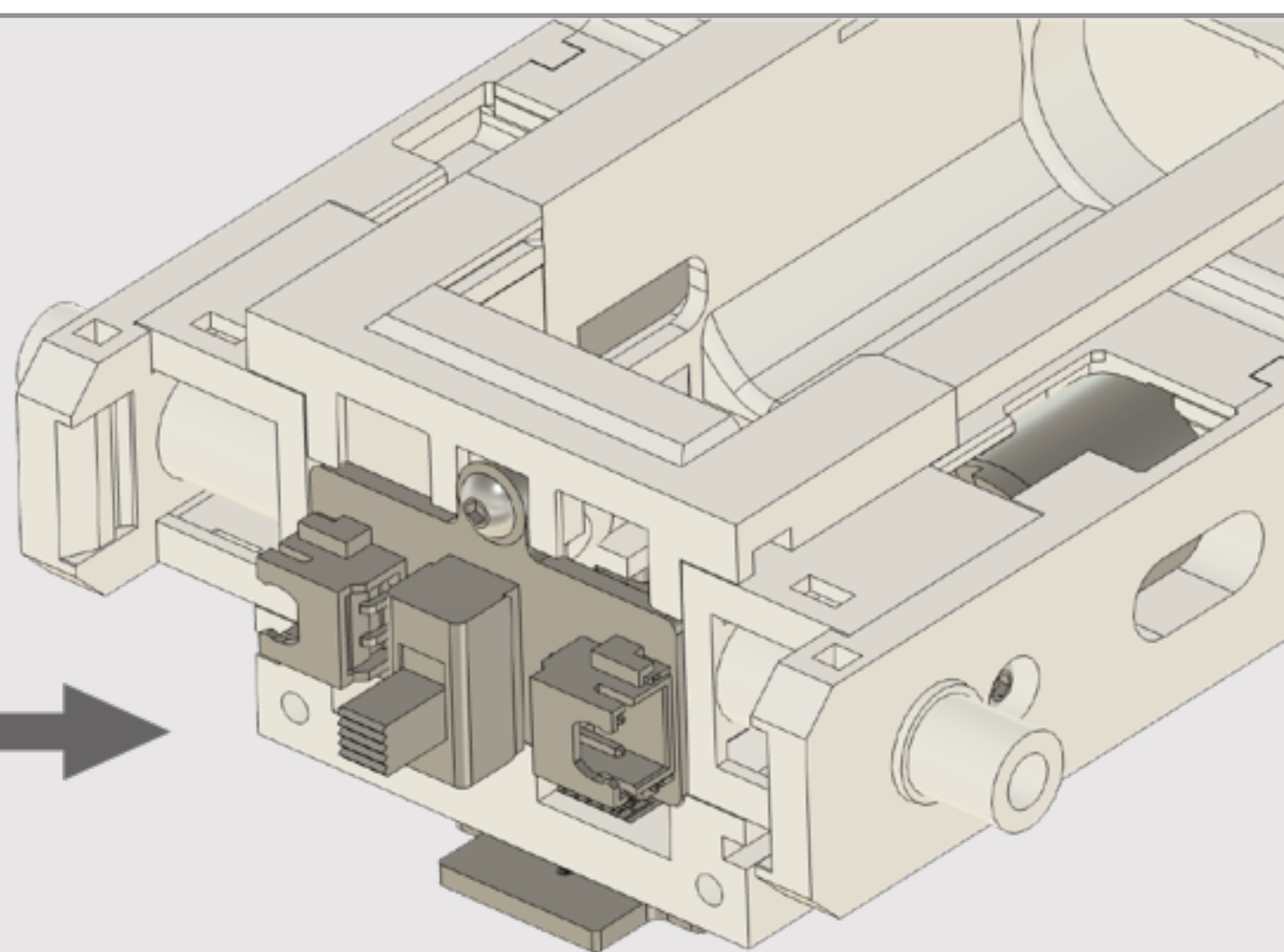
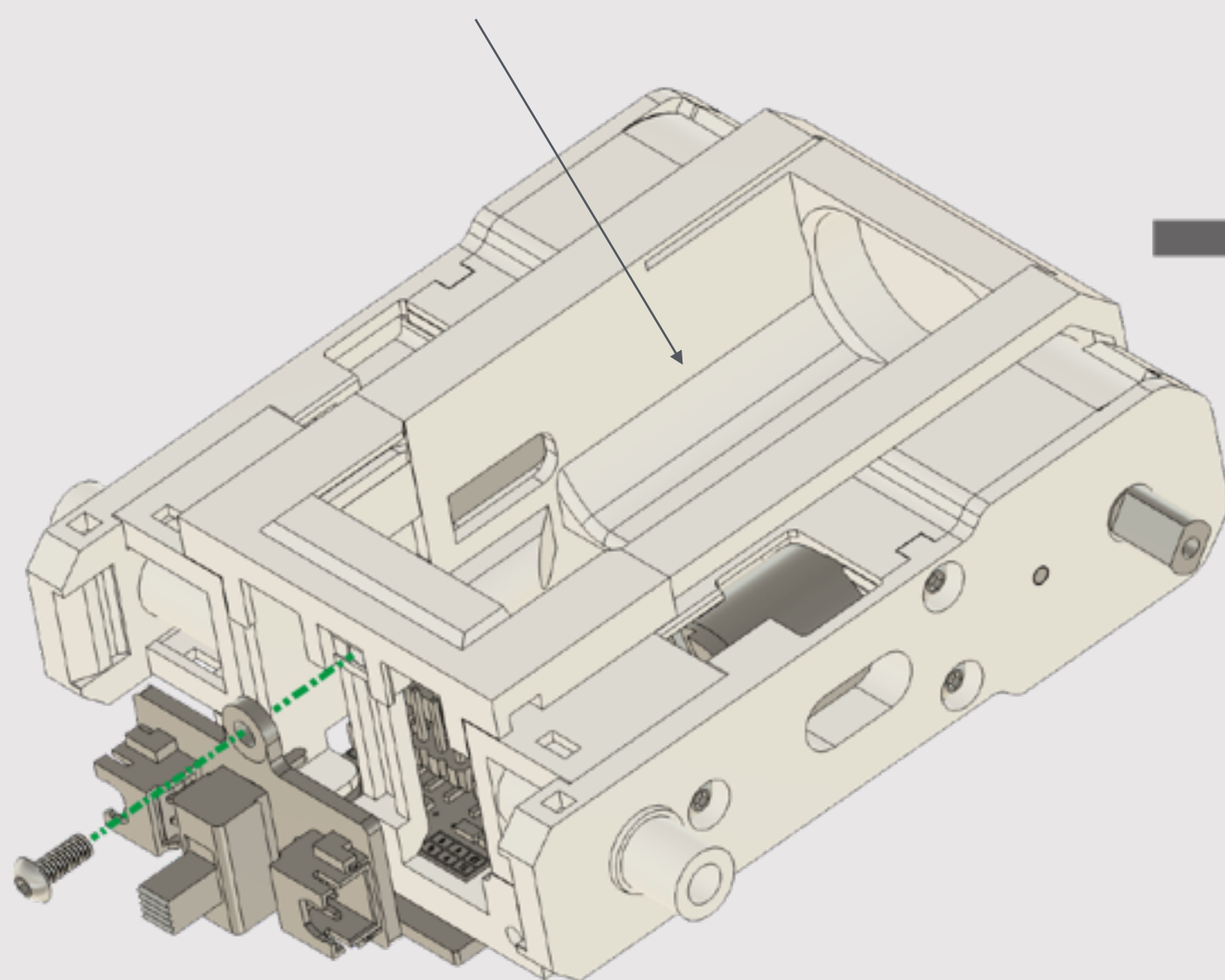
Battery Compartment





# 11

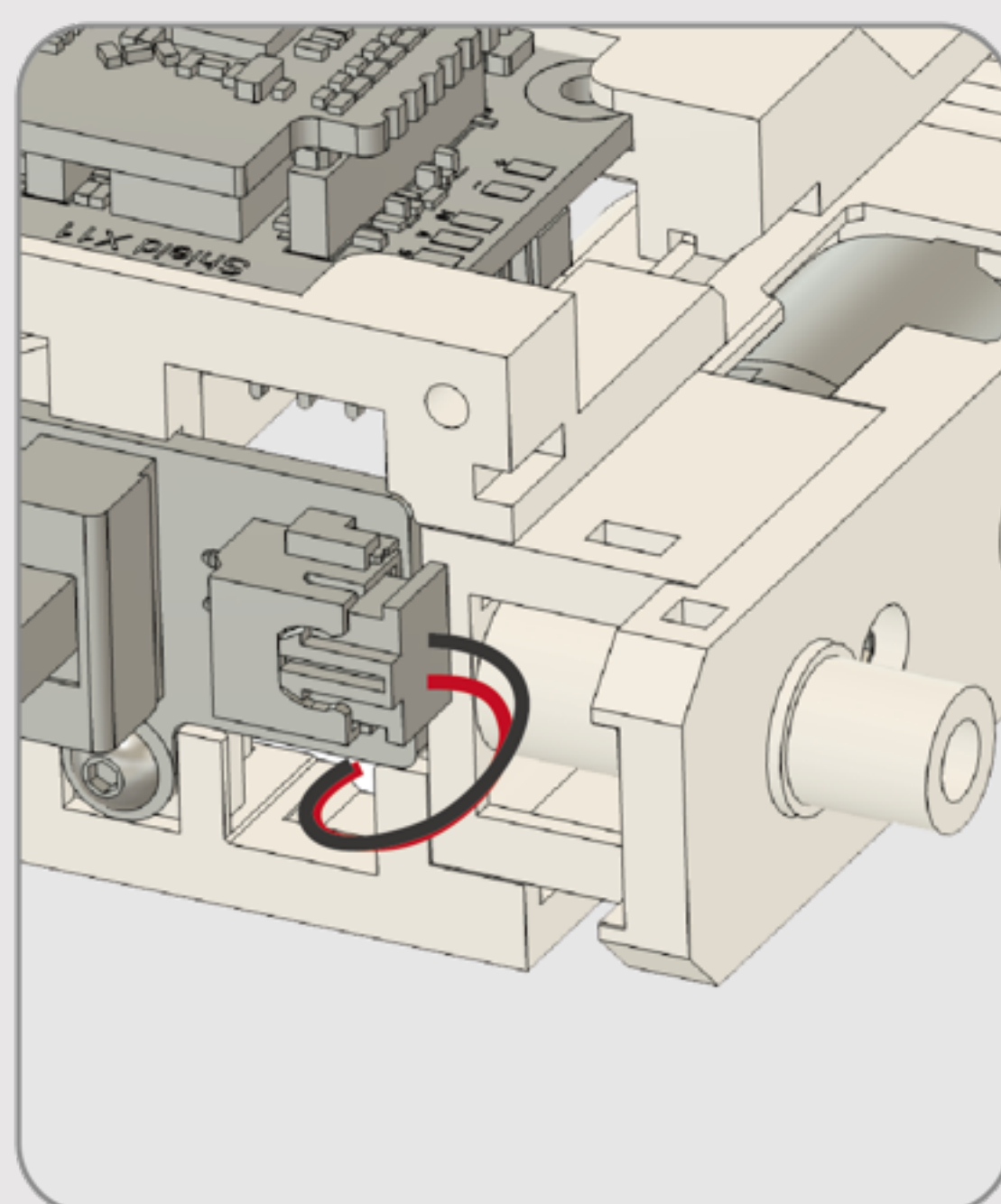
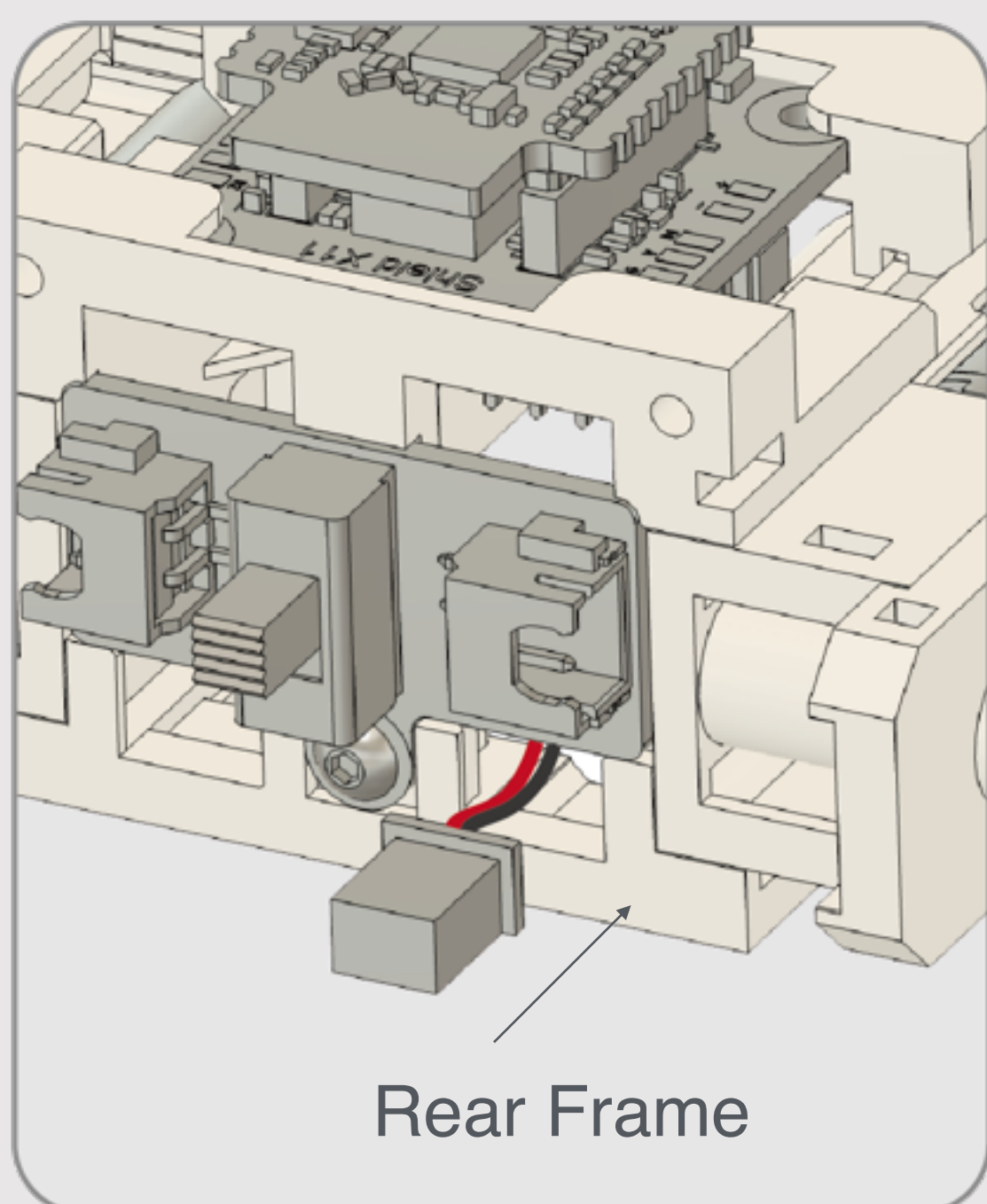
Battery Compartment



M2.5x6 BHCS Machine Screw

# 12

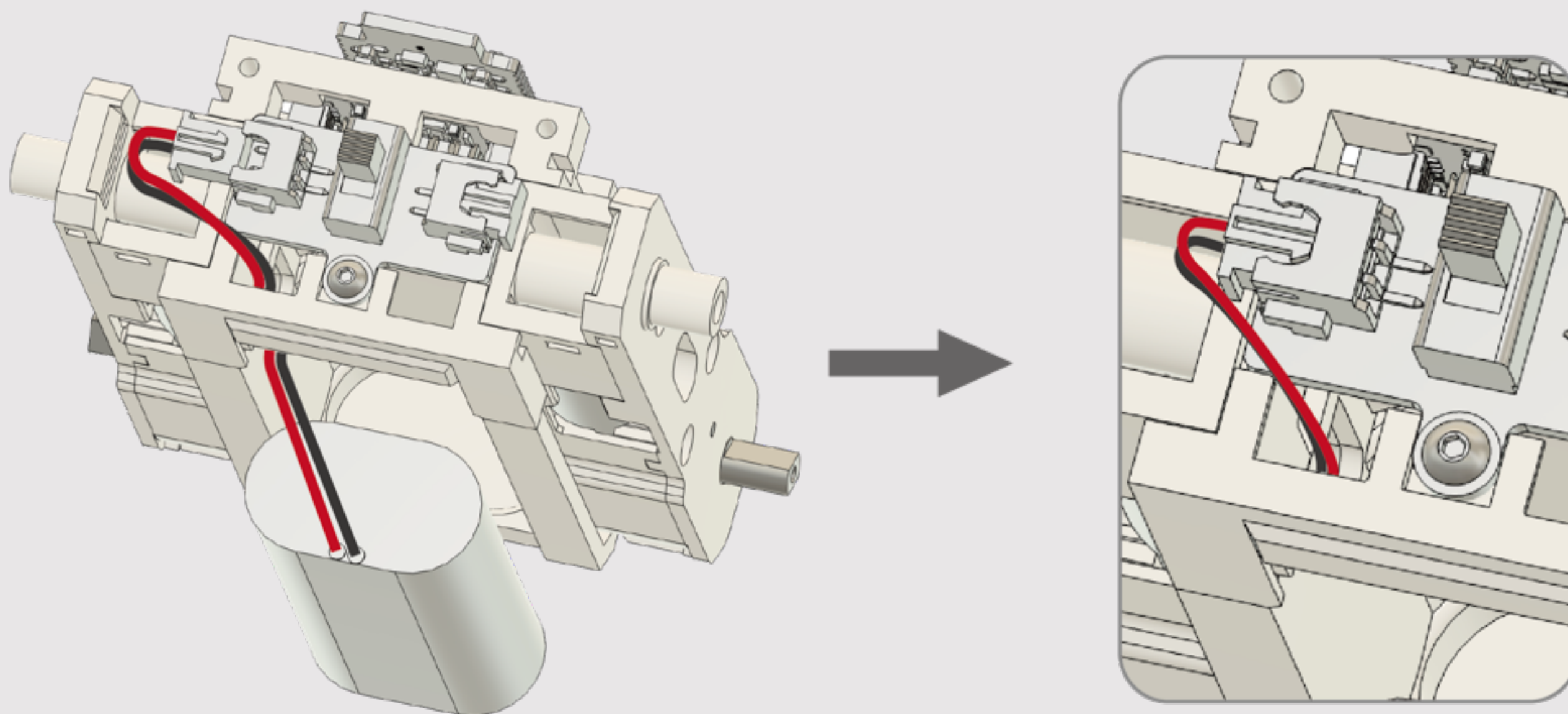
As shown in the diagram, pass the cable of the receiver board through the hole of the rear frame, then plug it into the power switch right socket.



When the receiver board is in the upper position, the plug is on the right side.



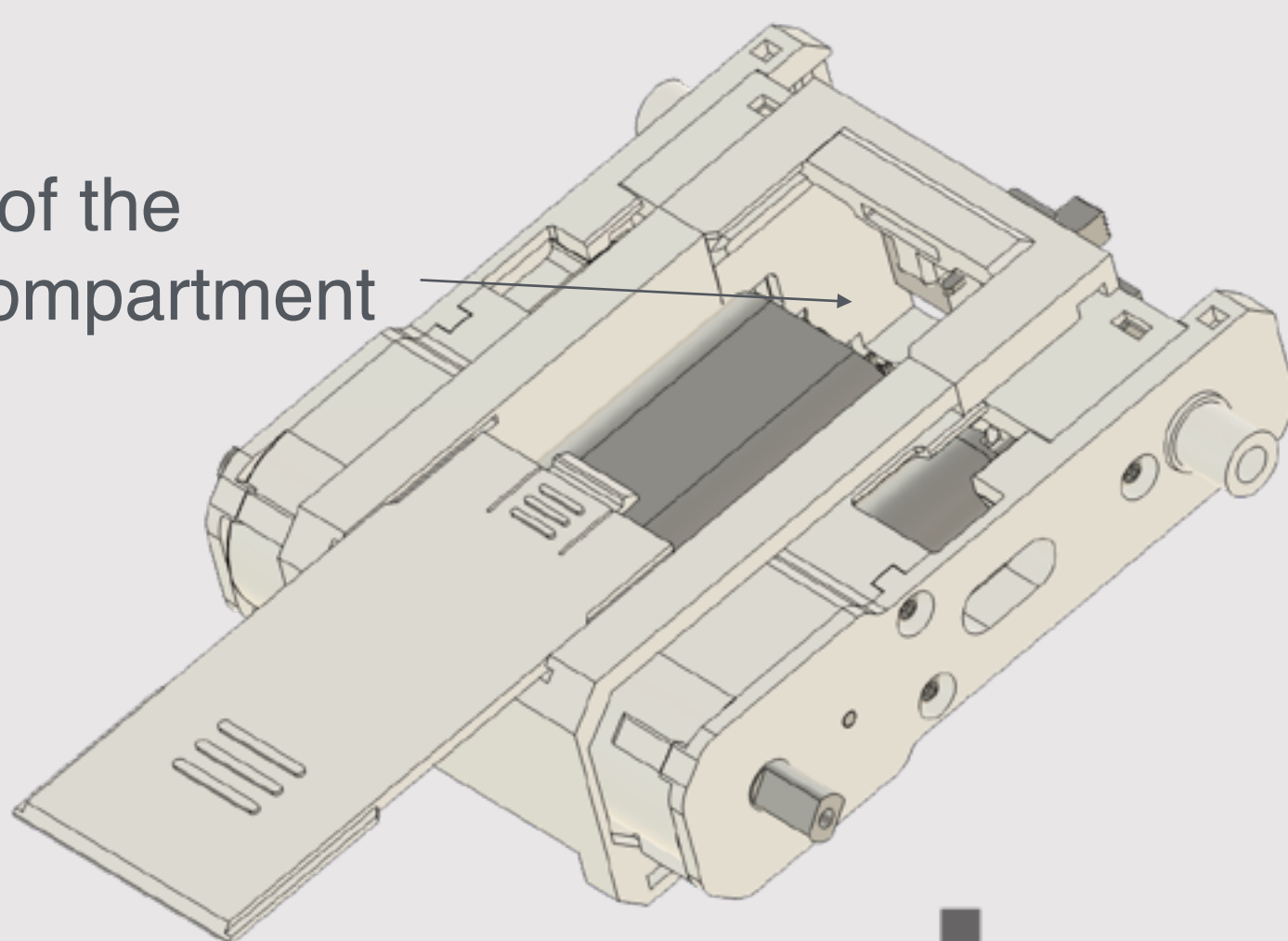
# 13



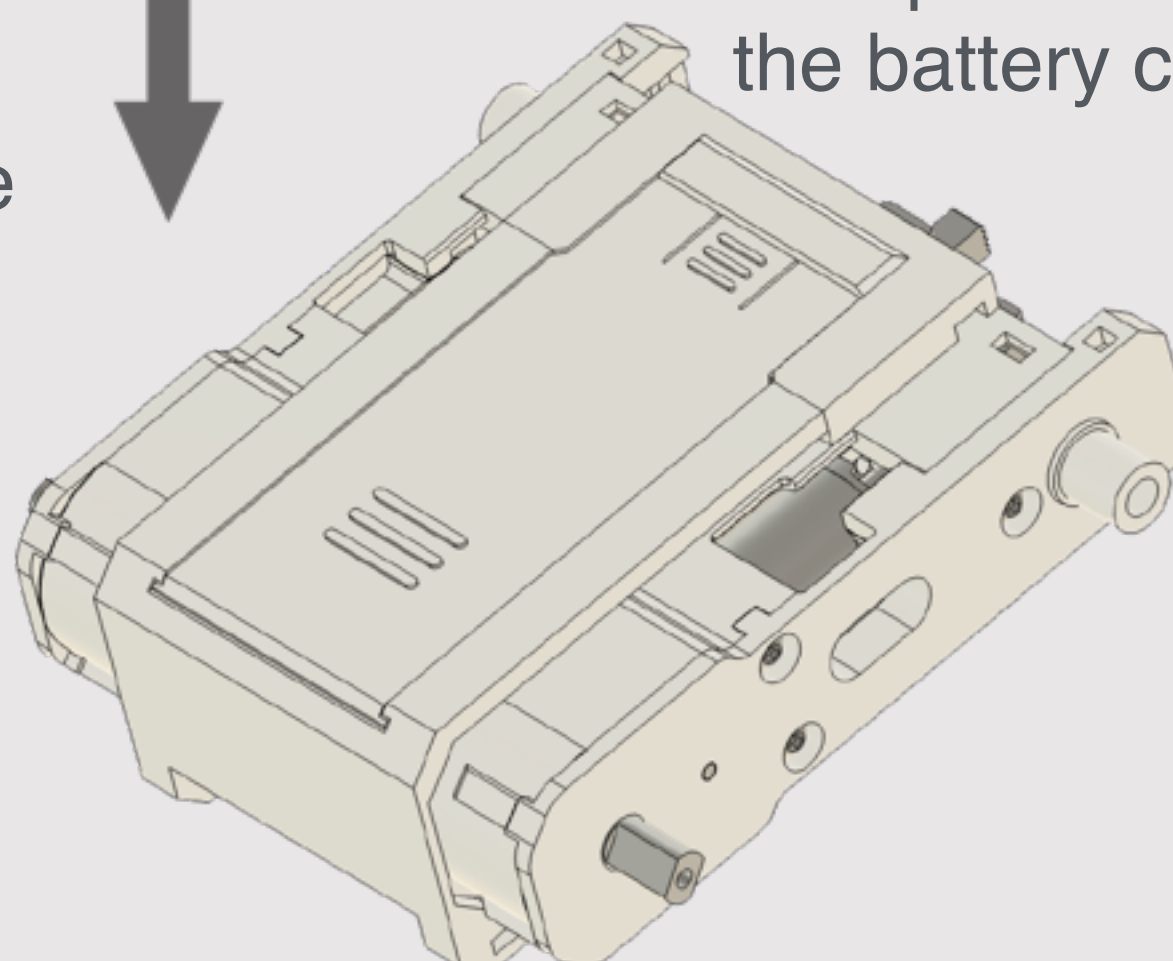
When the receiver board is in the upper position, the plug is on the left side.

# 14

The rear of the battery compartment



Slide to assemble the bottom cover, and pay attention to the direction of the cover.

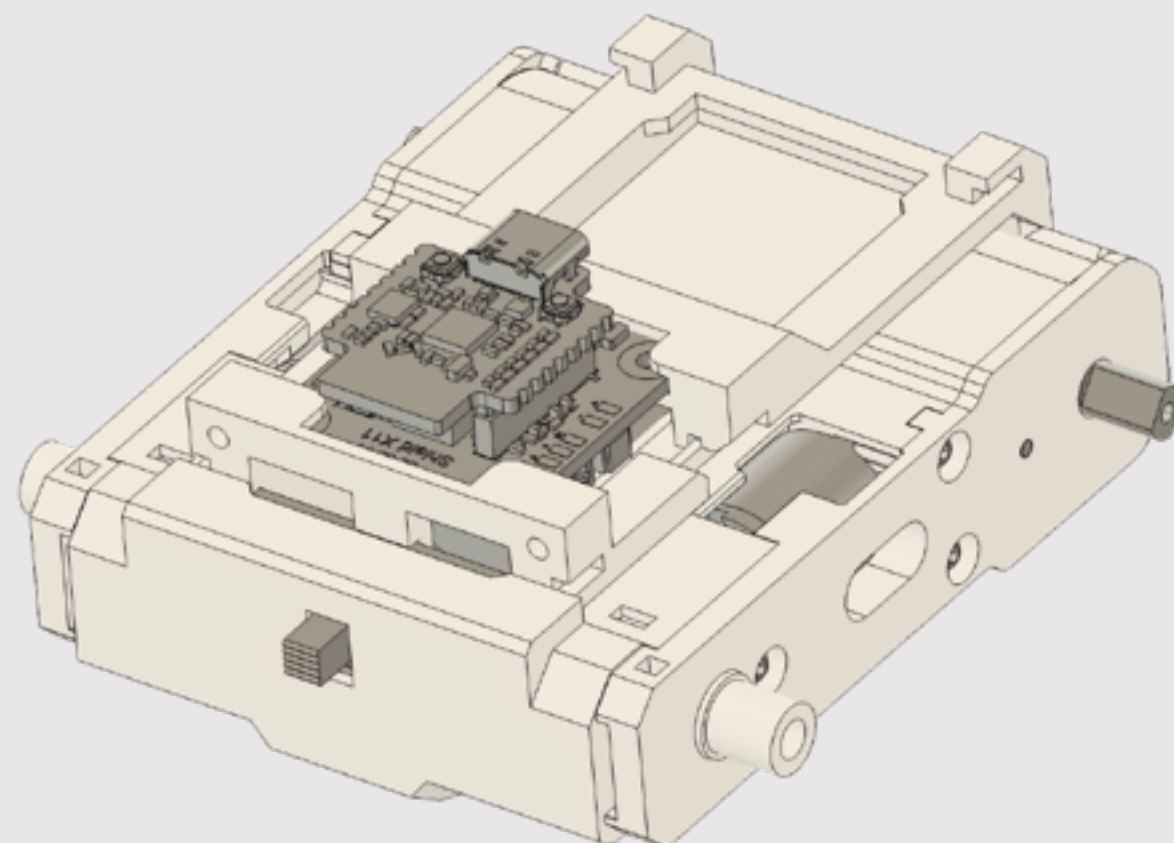
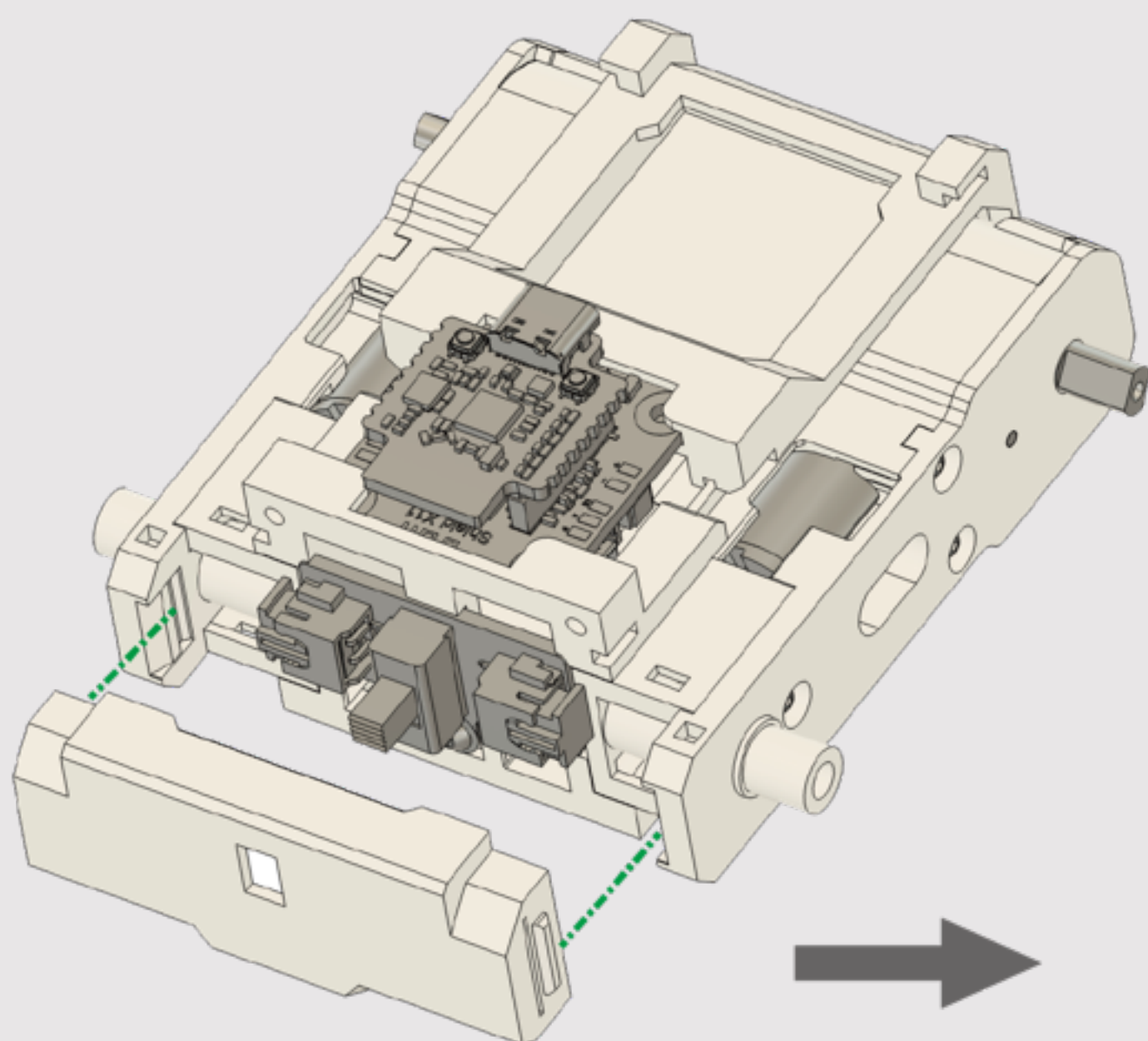


Store the battery cable in the space near the rear of the battery compartment.

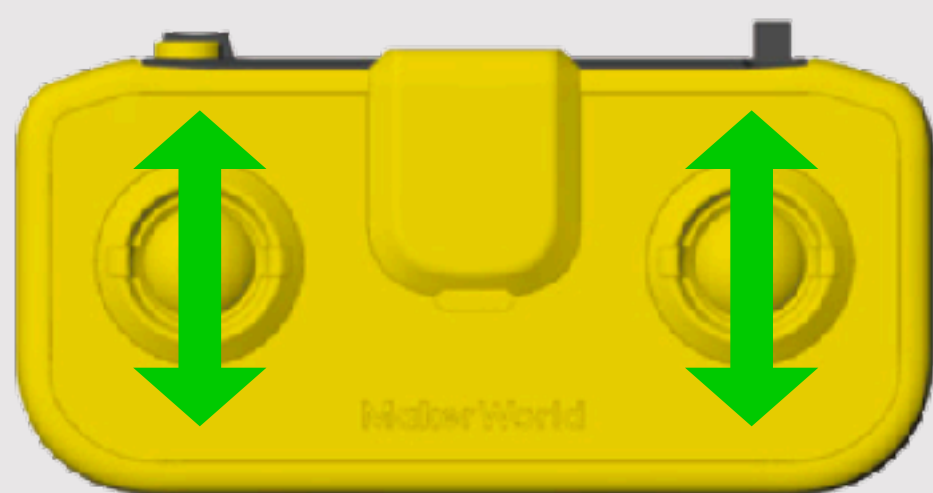


# 15

Assemble one side first.



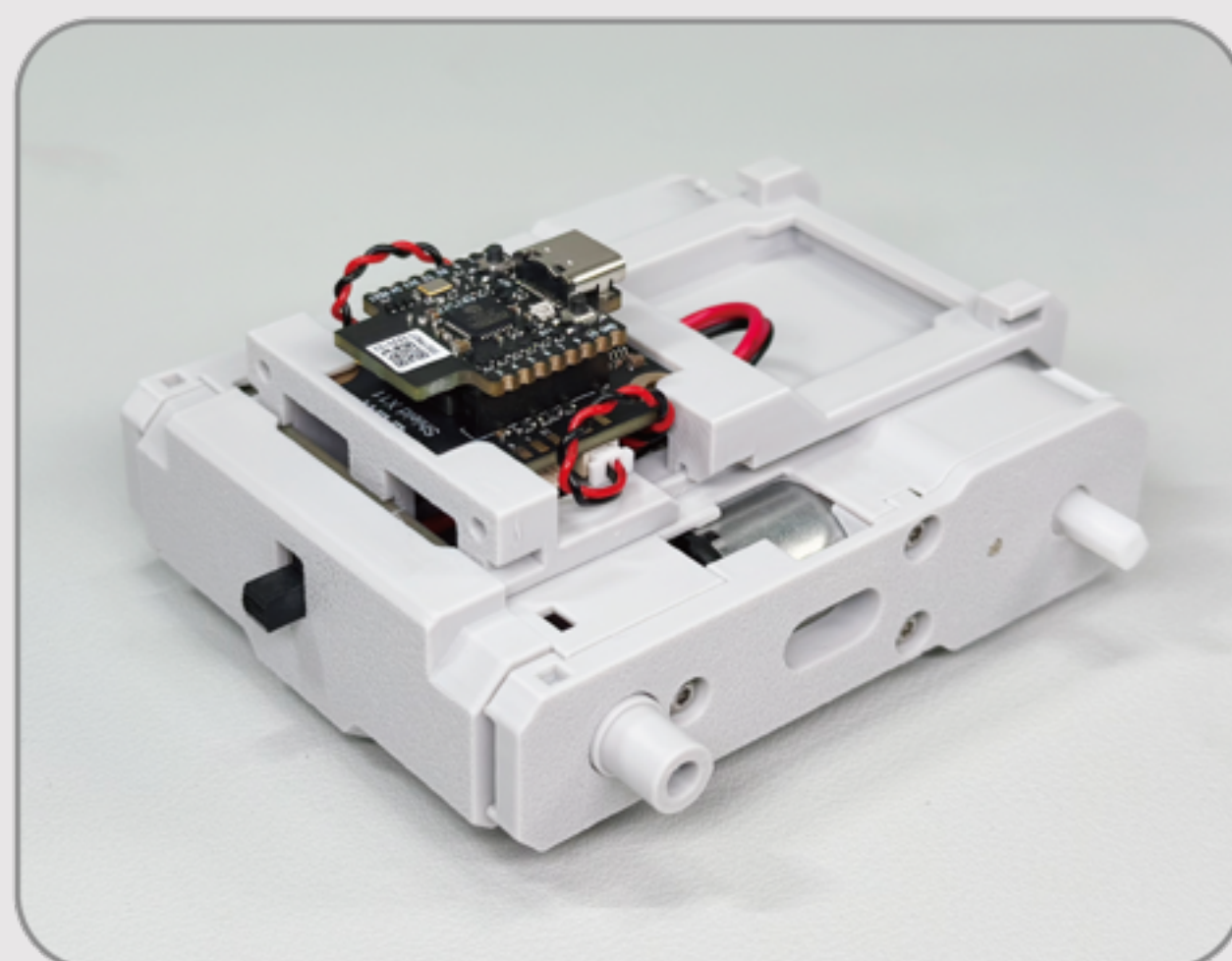
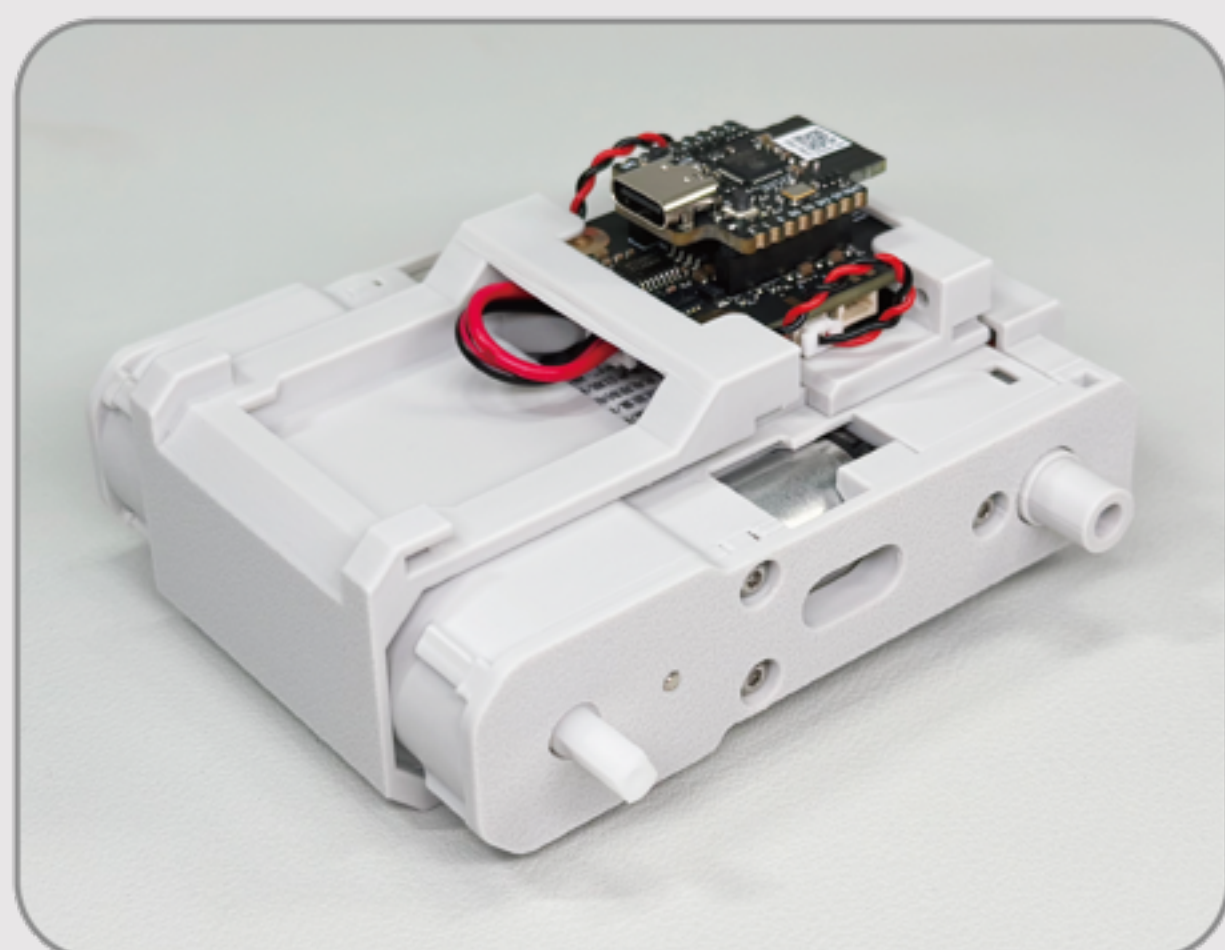
**The chassis assembly is completed.**



Turn on the power of the remote control and the chassis, and ensure that pairing and sending of config have been completed.

Push the two sticks respectively, and the corresponding shafts will rotate.

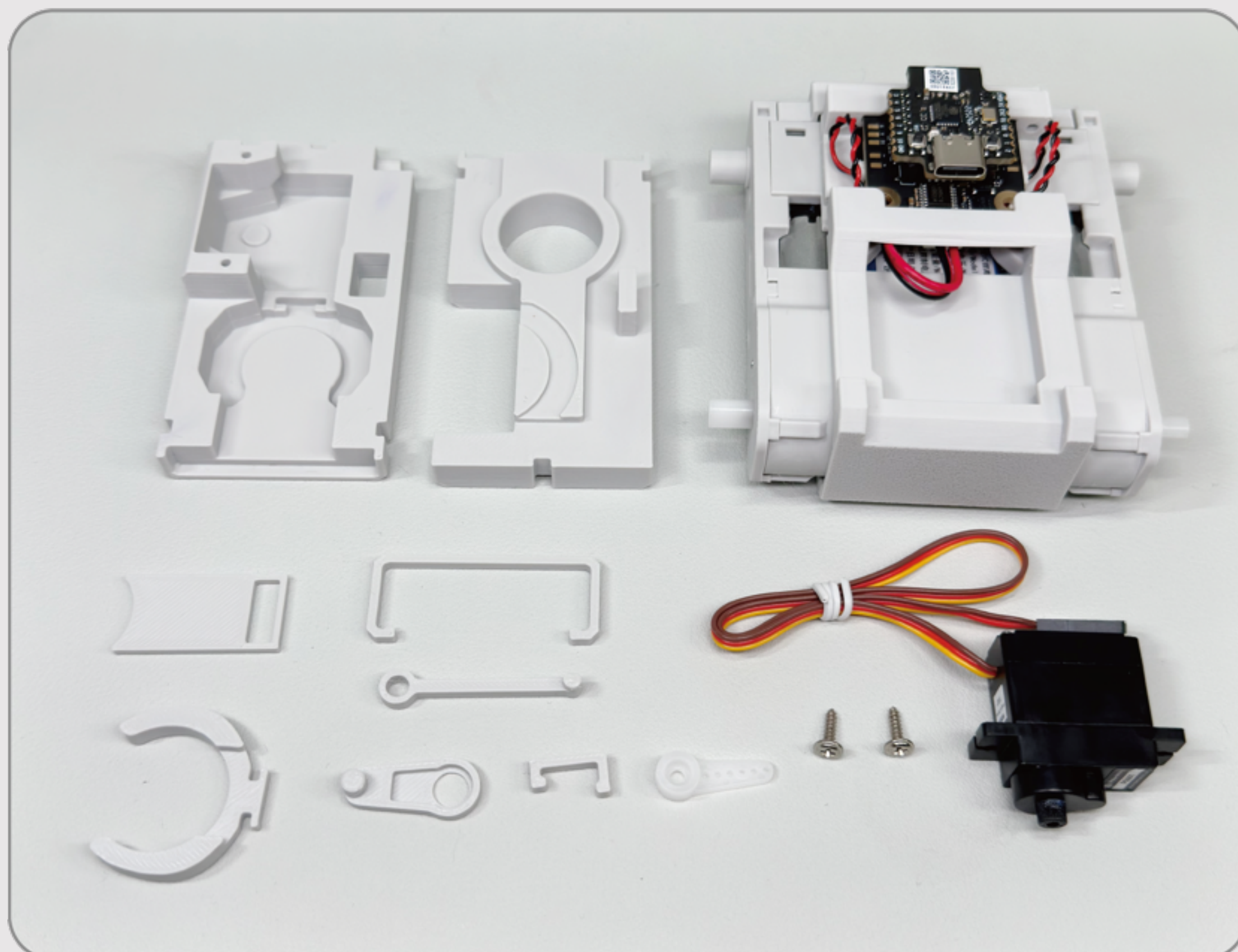
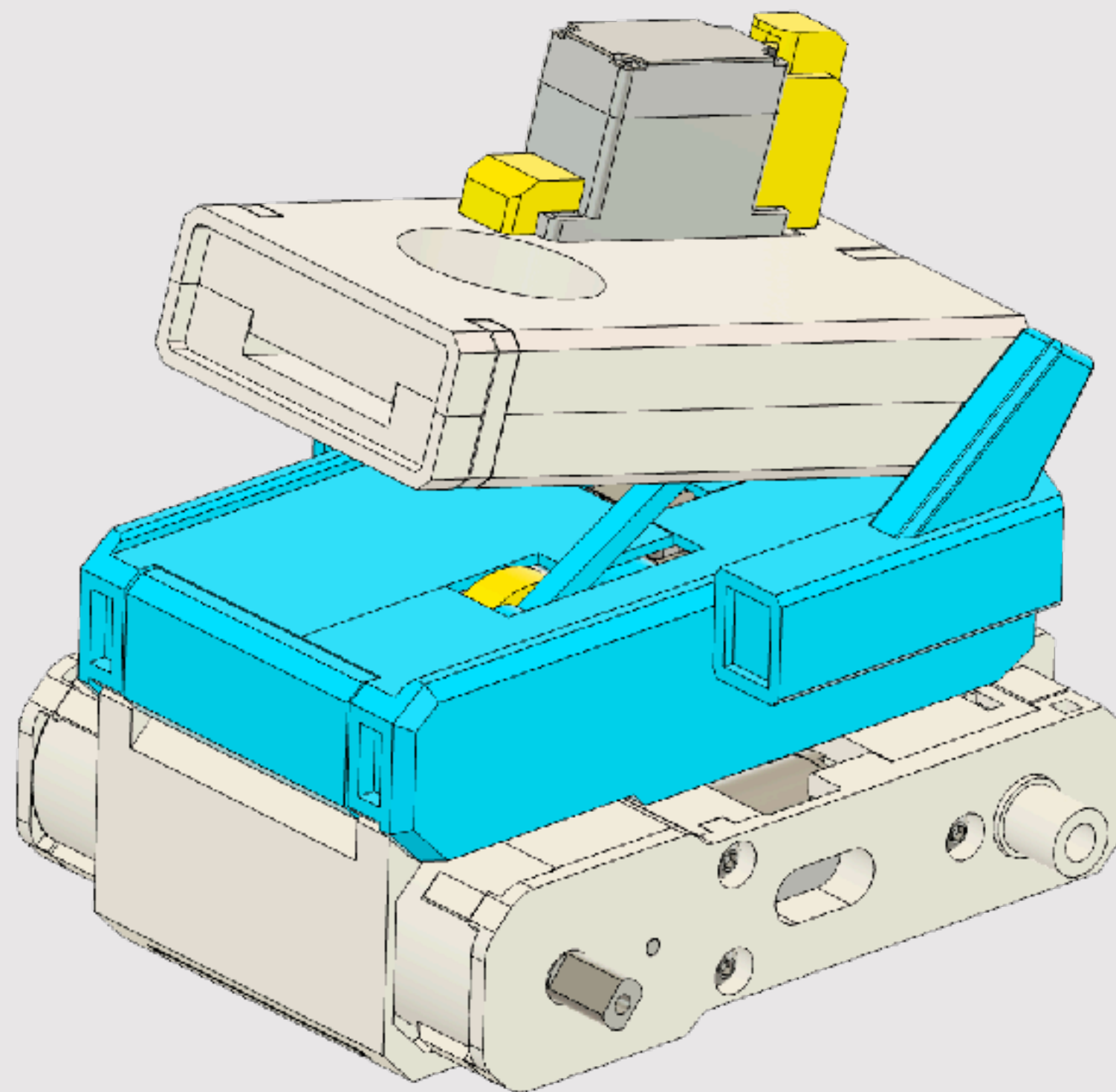
Turn off the power after the test is completed.





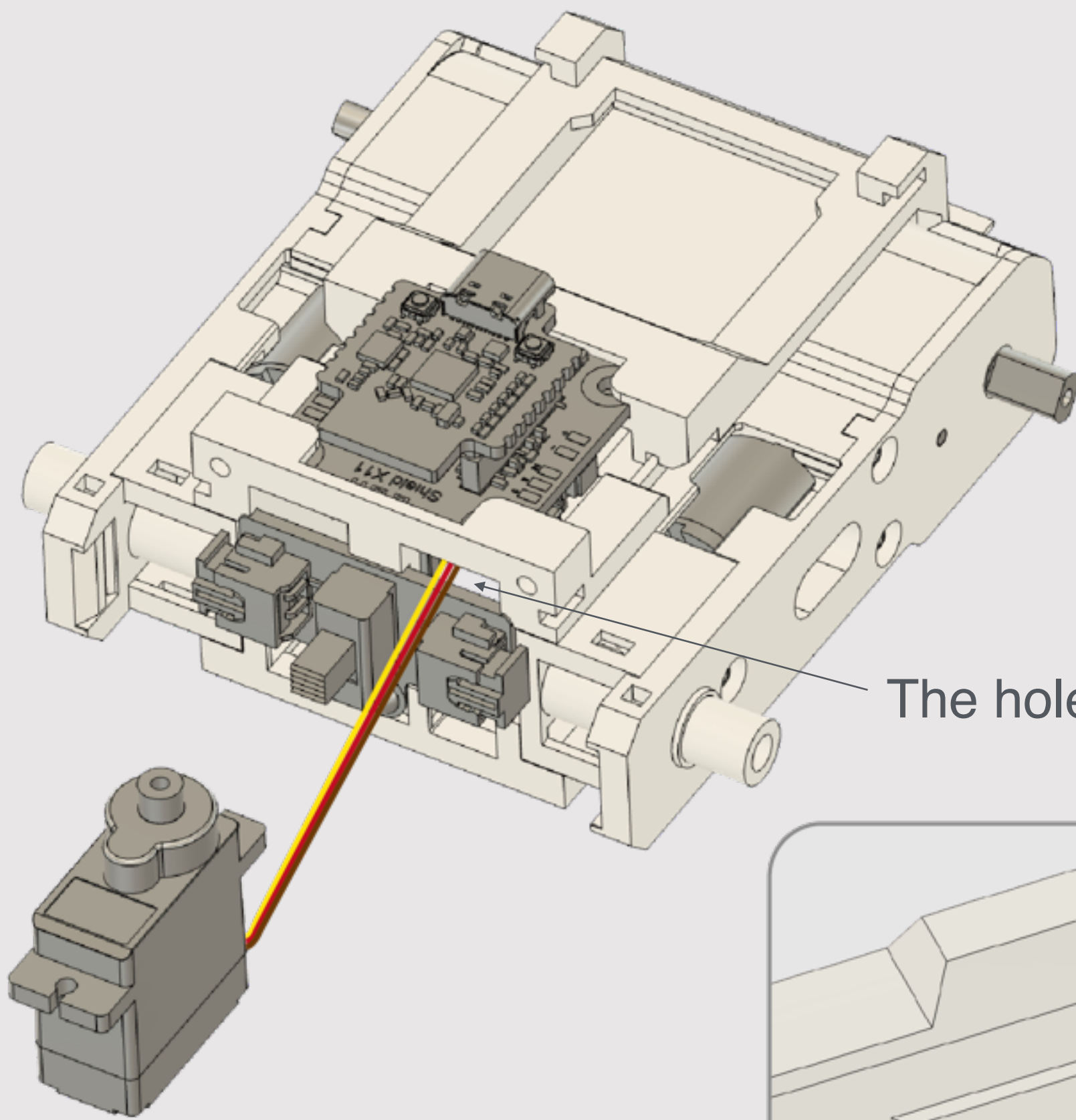
# Expansion Module

## - Disc Launcher



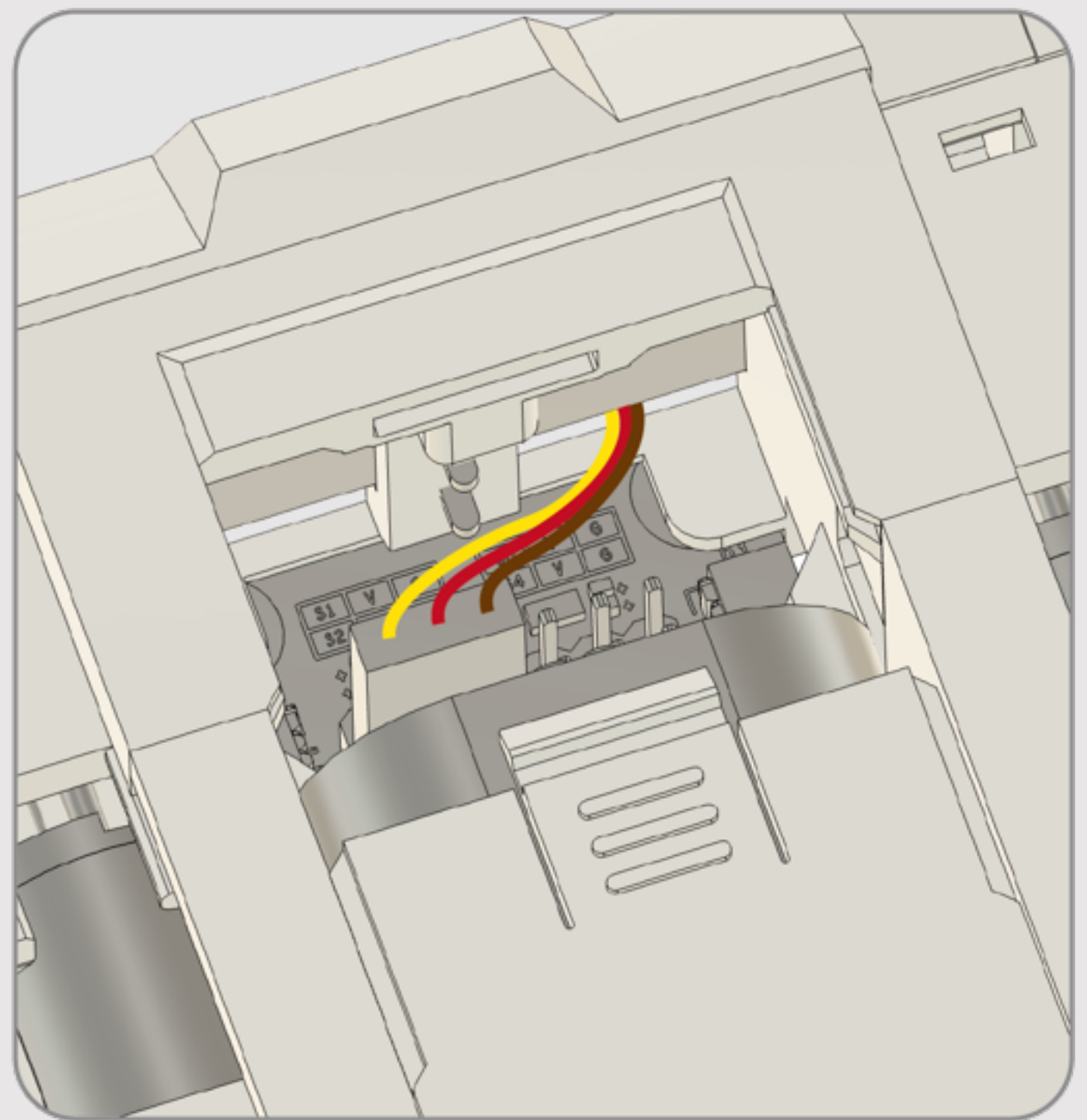


# 1

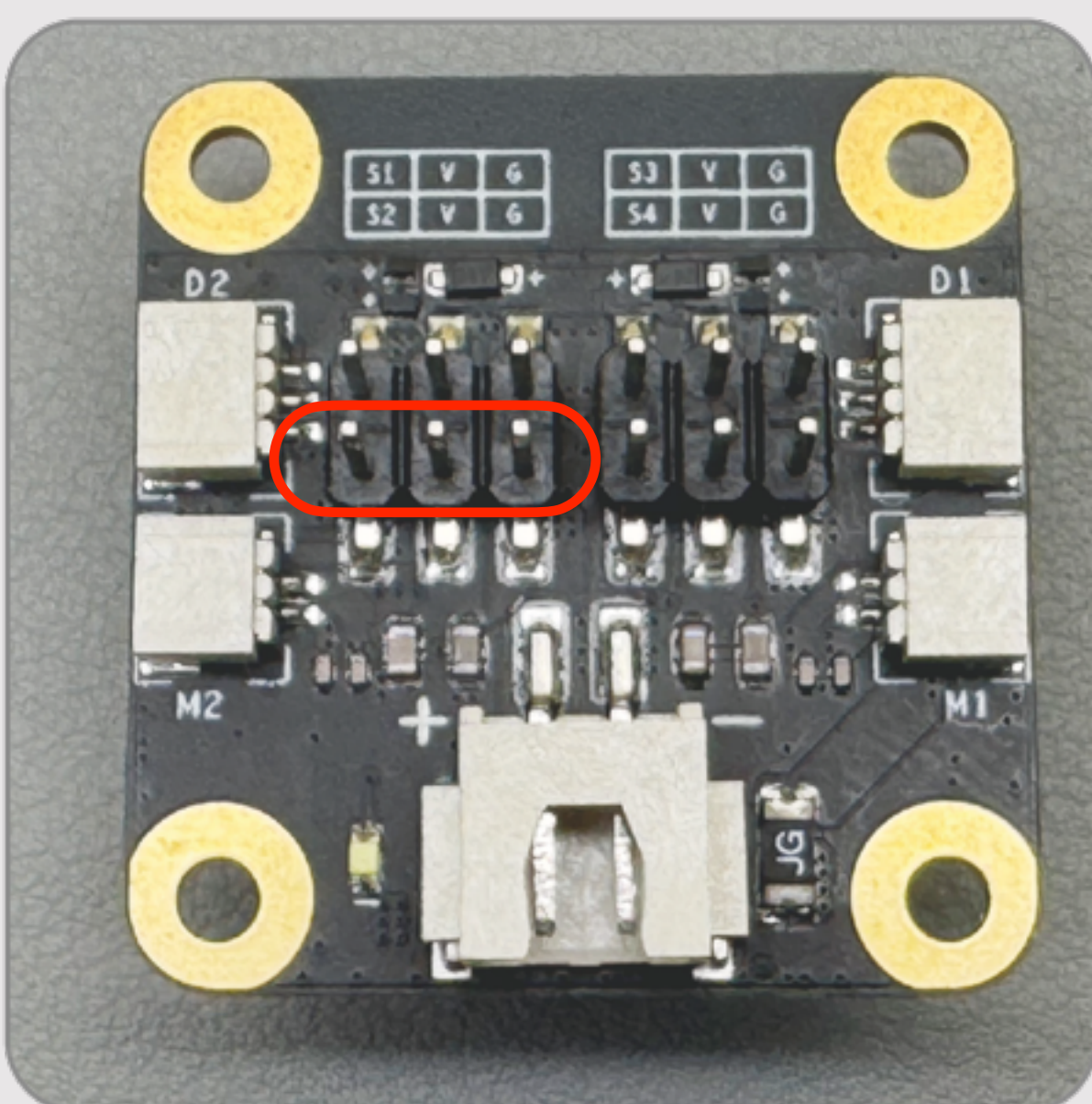


The hole in the rear frame

180° 9g Servo (B-PG001)



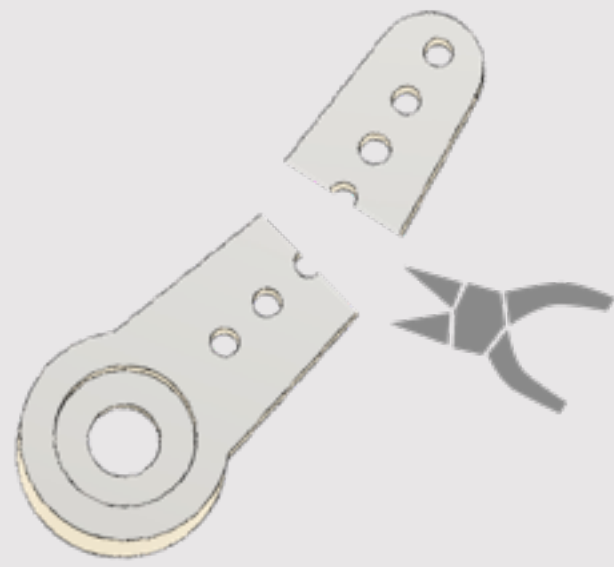
Pass the servo cable through the hole in the rear frame and plug them into the corresponding socket on the receiver board.



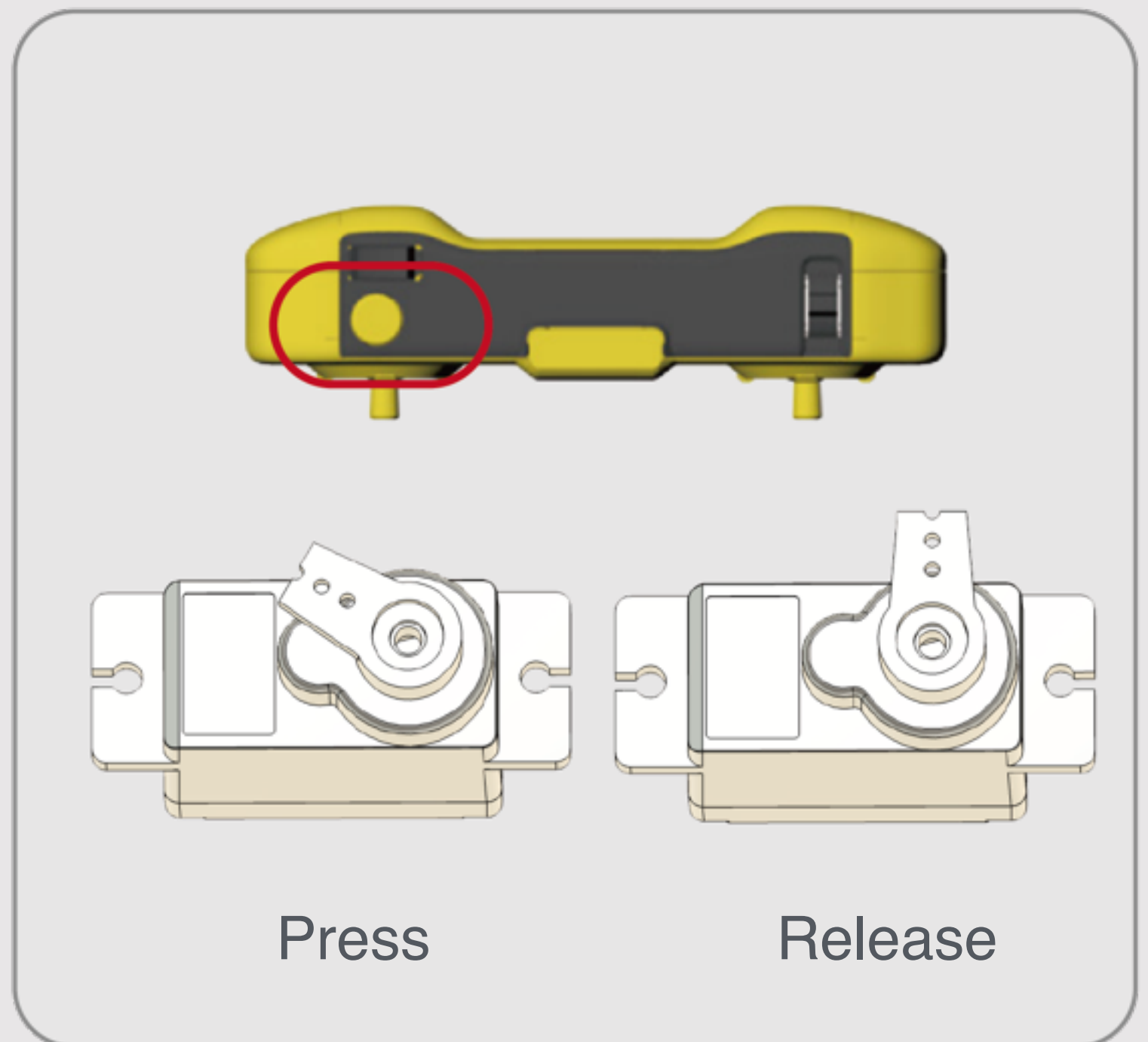
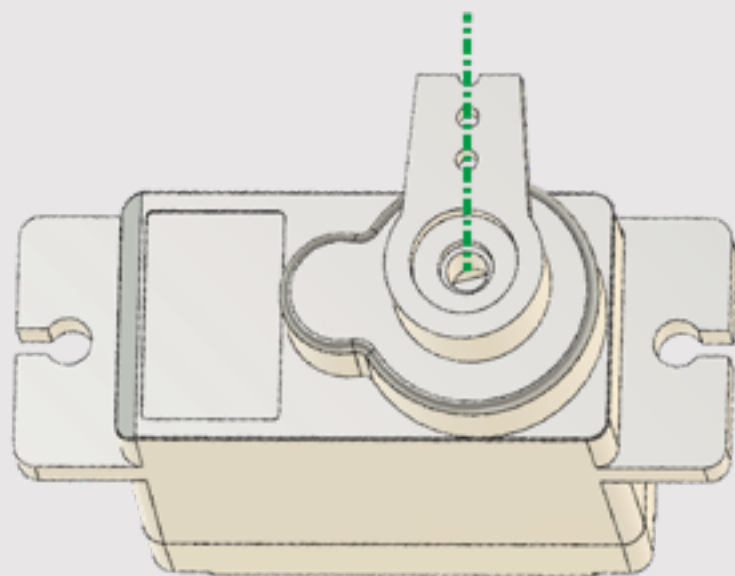
Connect to the S2 of the board, and pay attention to the wire colors.



# 2



Cut through the third hole

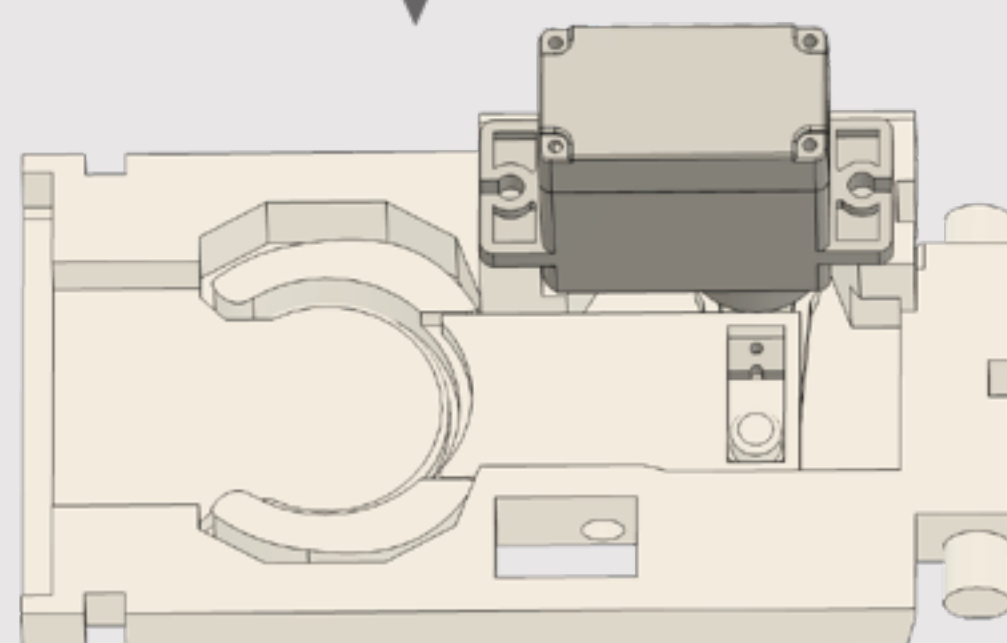
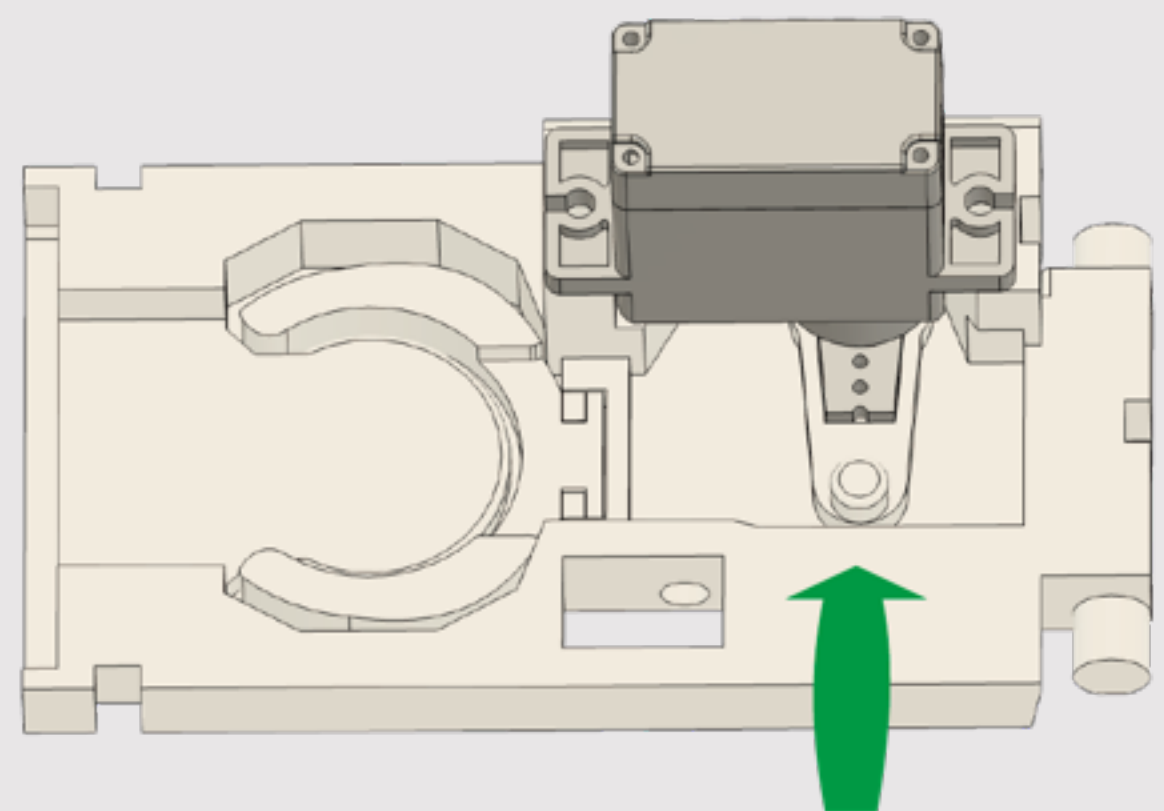
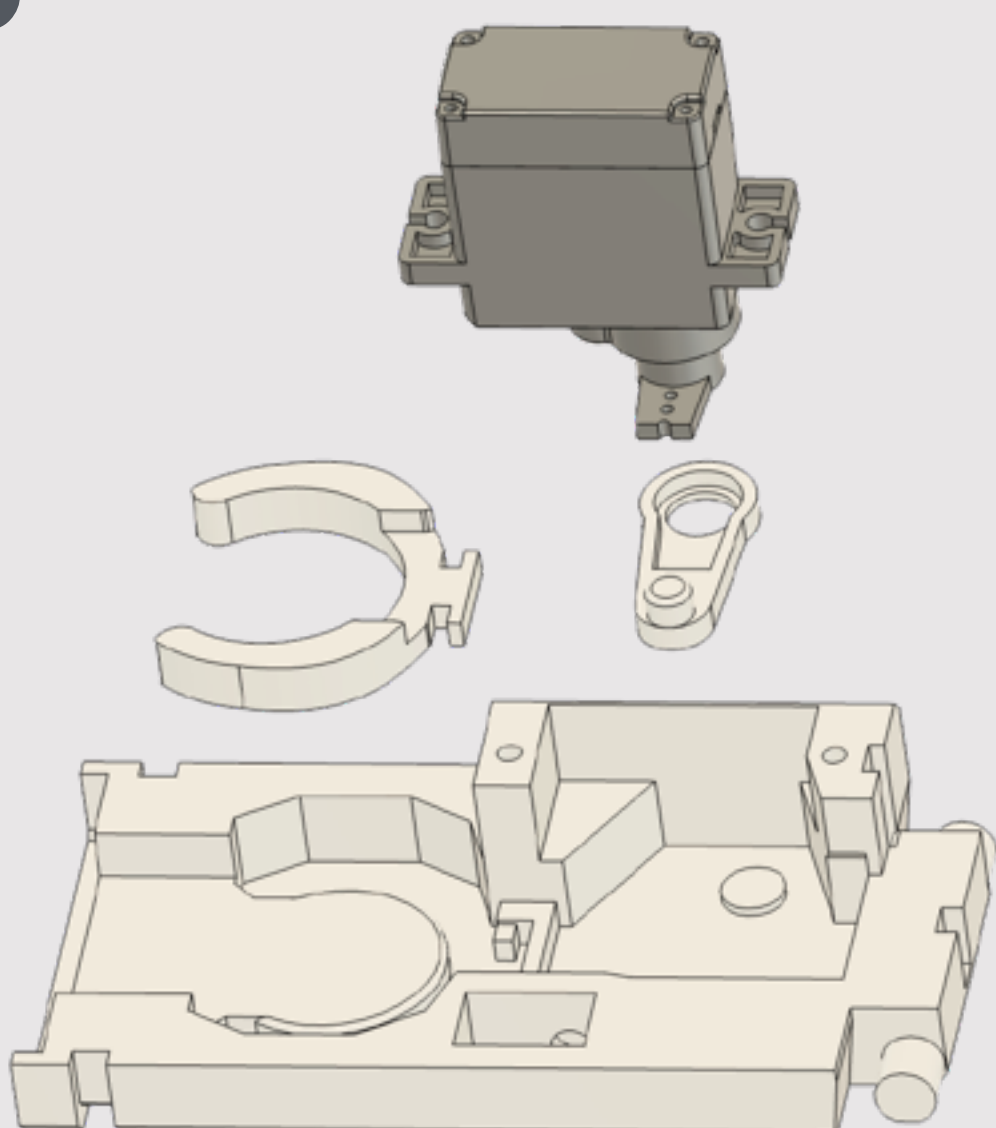


Press

Release

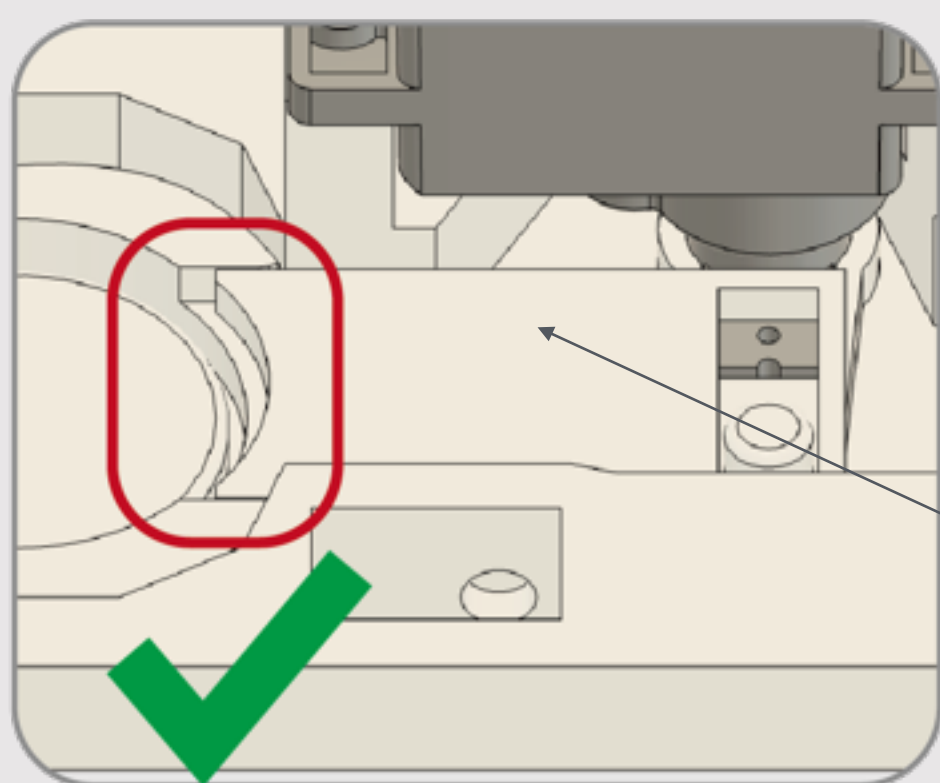
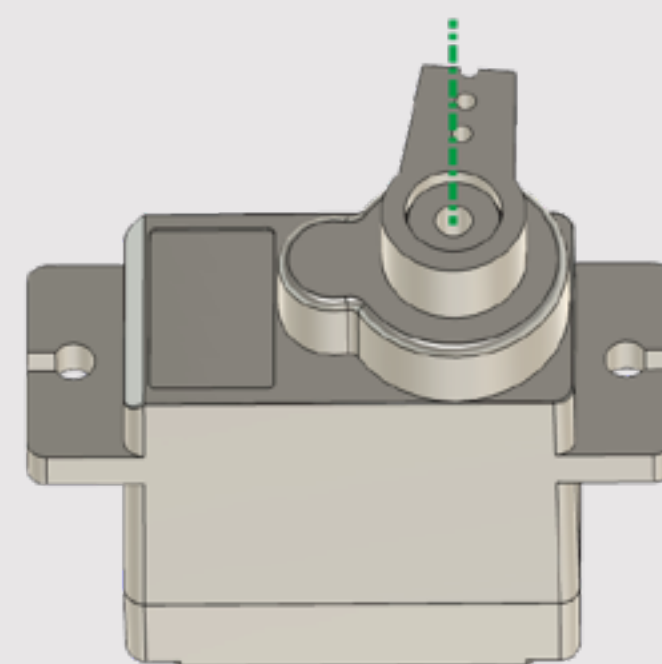
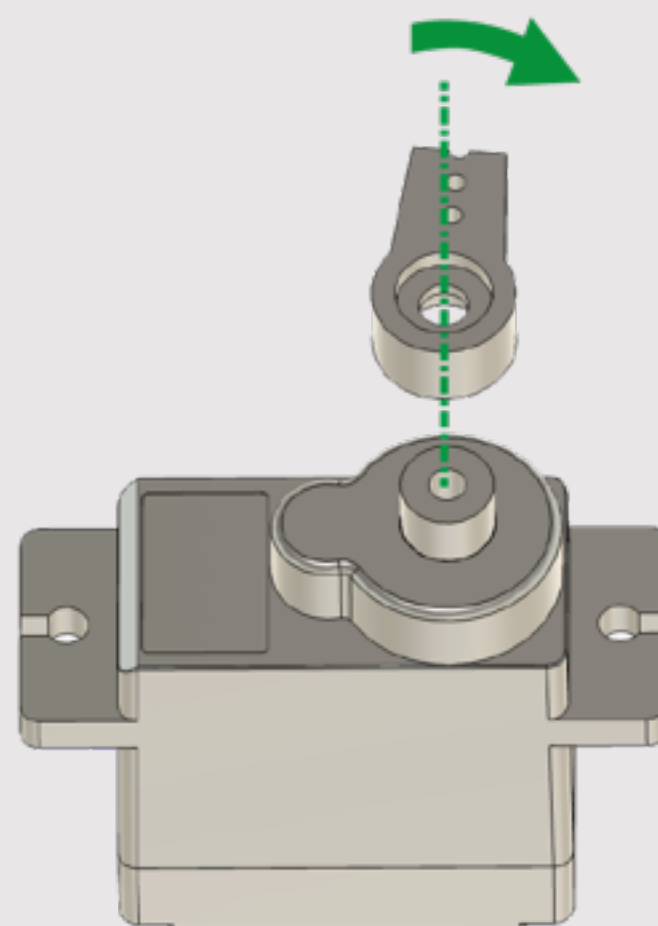
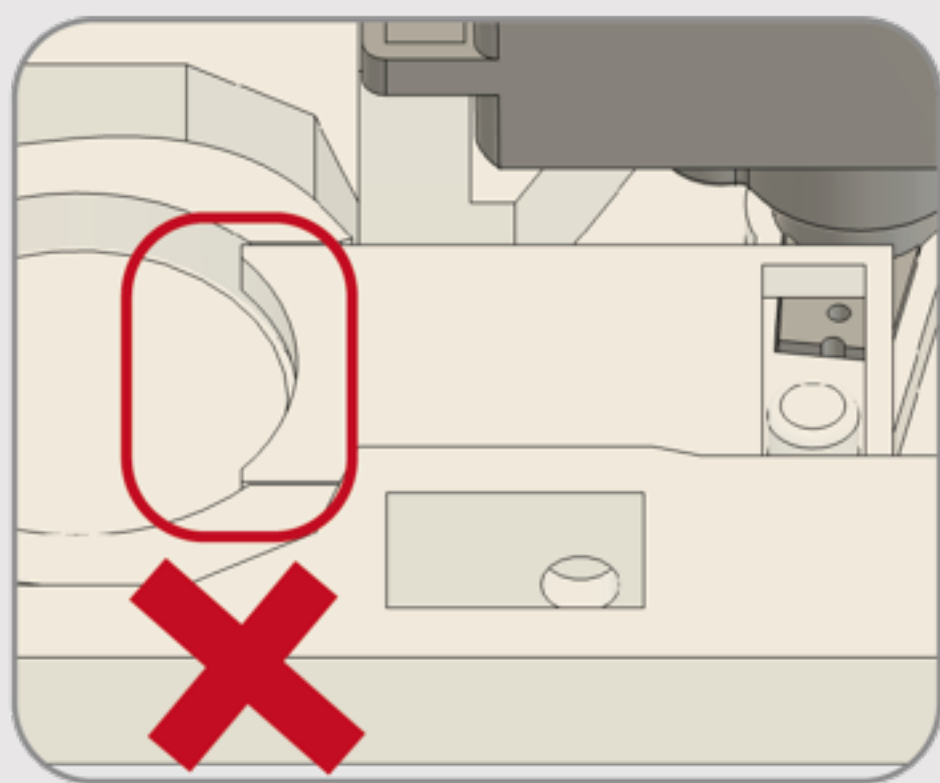
Turn on the power of the remote control and the chassis, and the servo will automatically return to the neutral position.  
Do not press any buttons on the remote control after power-on; install the servo arm, which should be as perpendicular to the servo as possible.

# 3





4

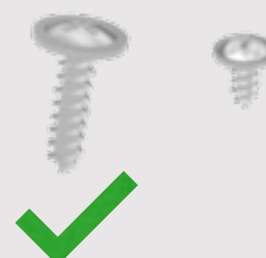
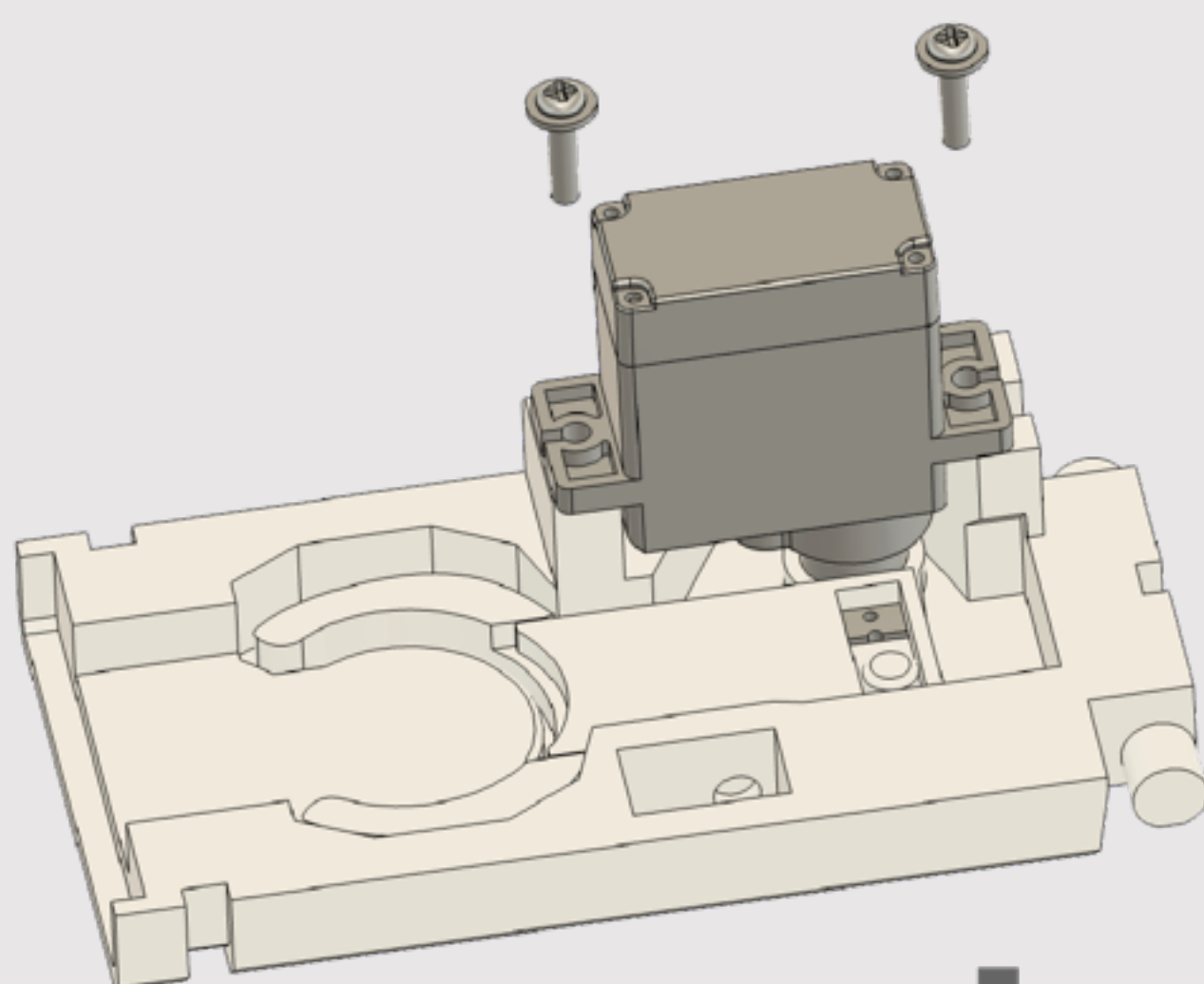


Slider

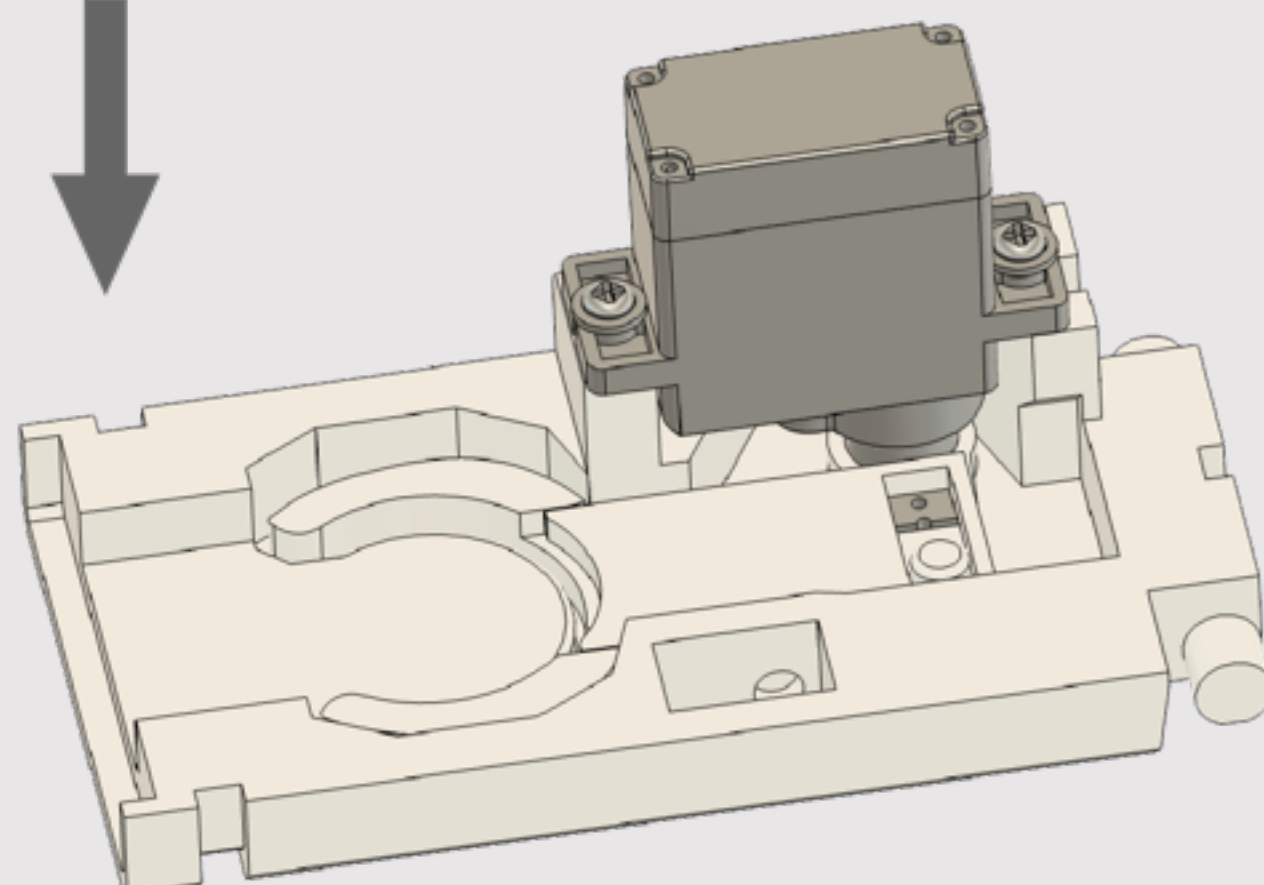
After power-on, the servo will automatically return to the neutral position. If the slider part is not in the correct position at this time, re-install the servo arm (by rotating it slightly clockwise) to align the slider part to the correct position.

## Assembly Inspection

5

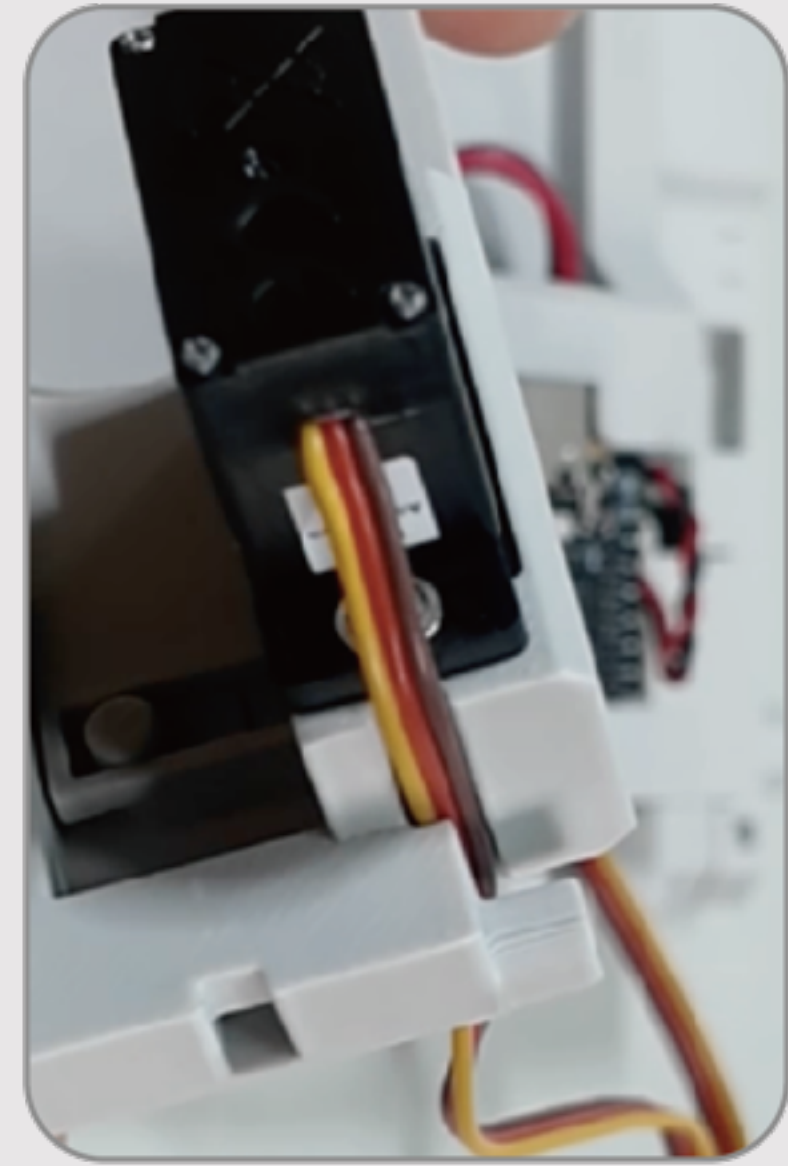
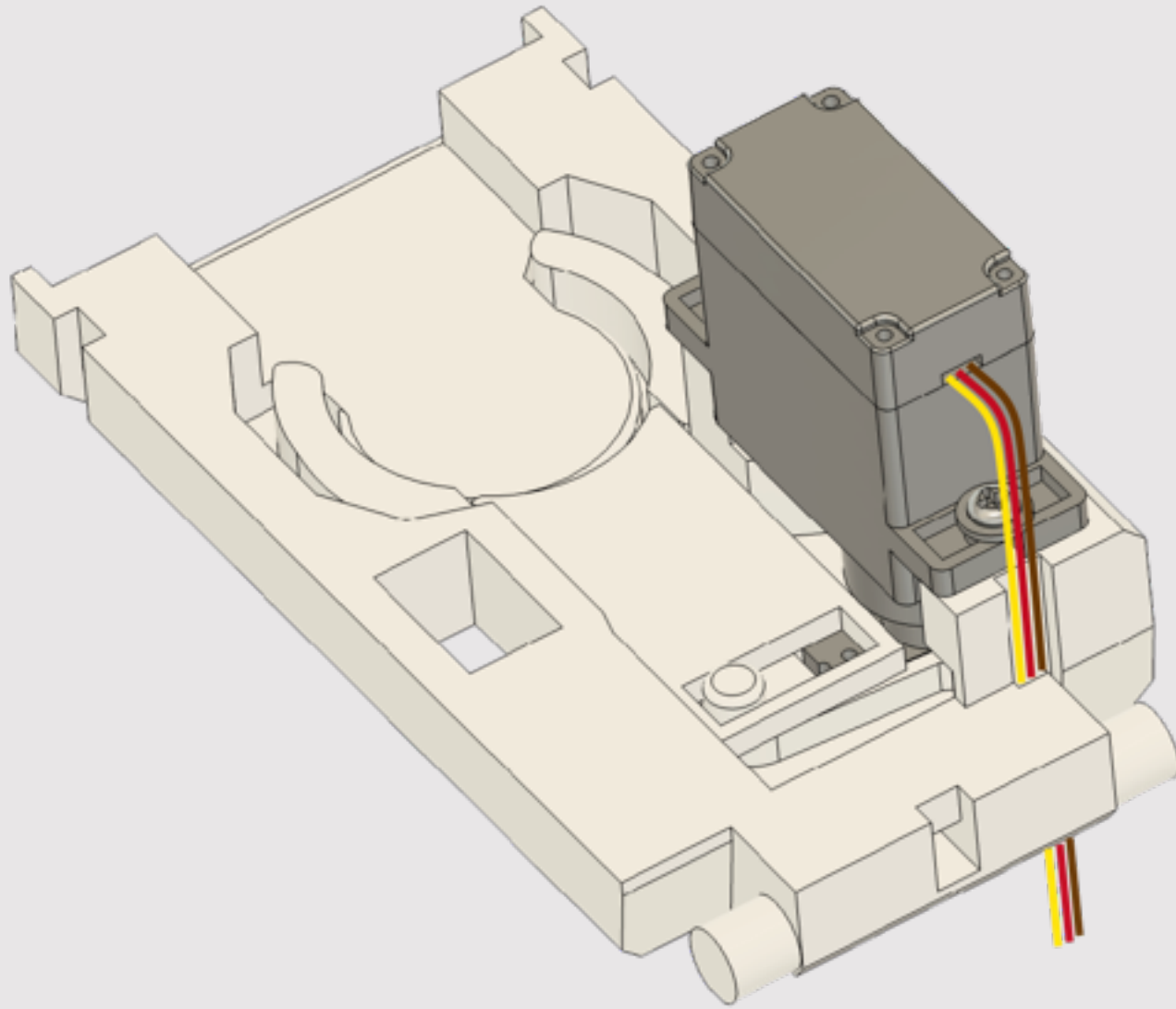


The screws used in this step are included in the servo package.

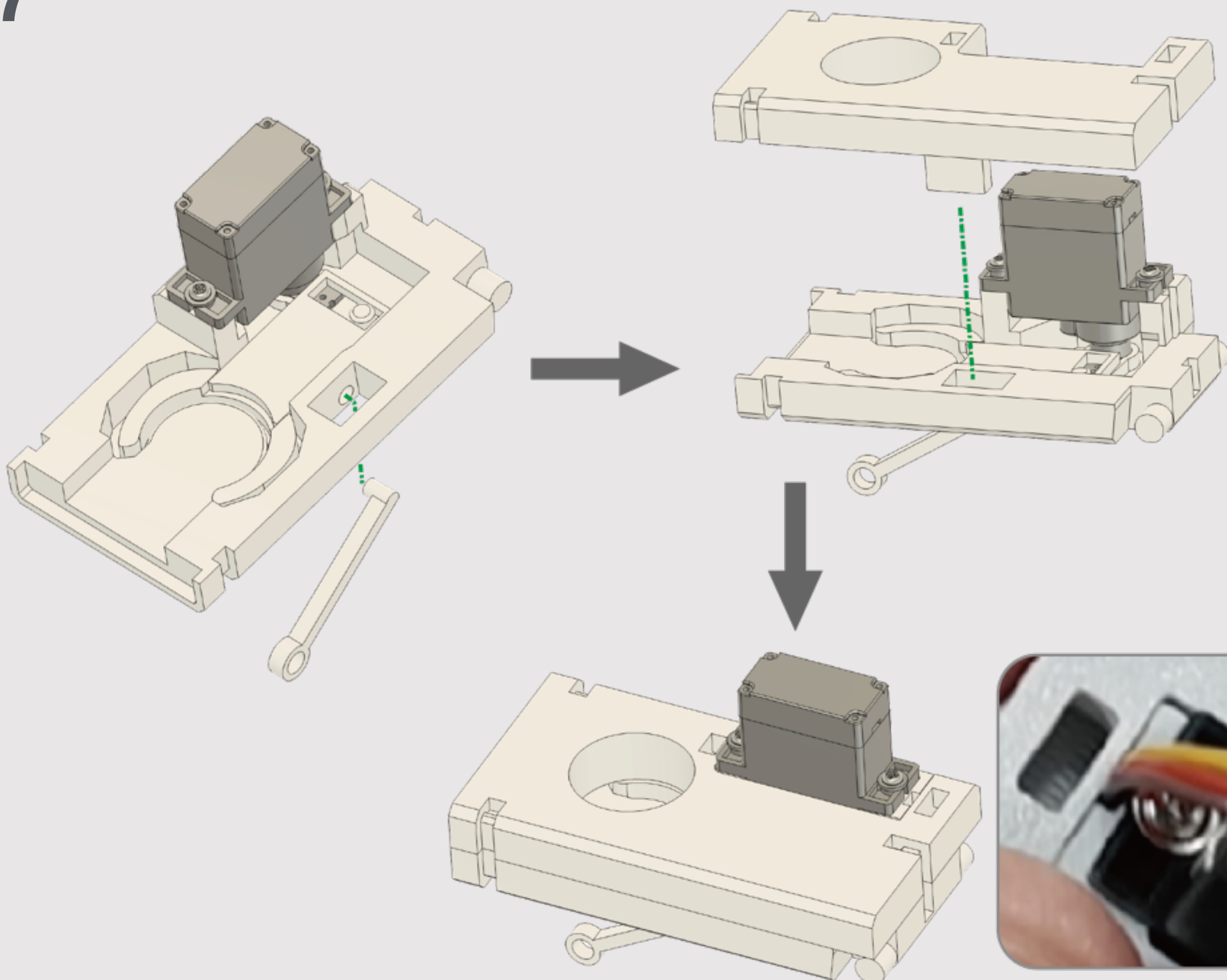




6

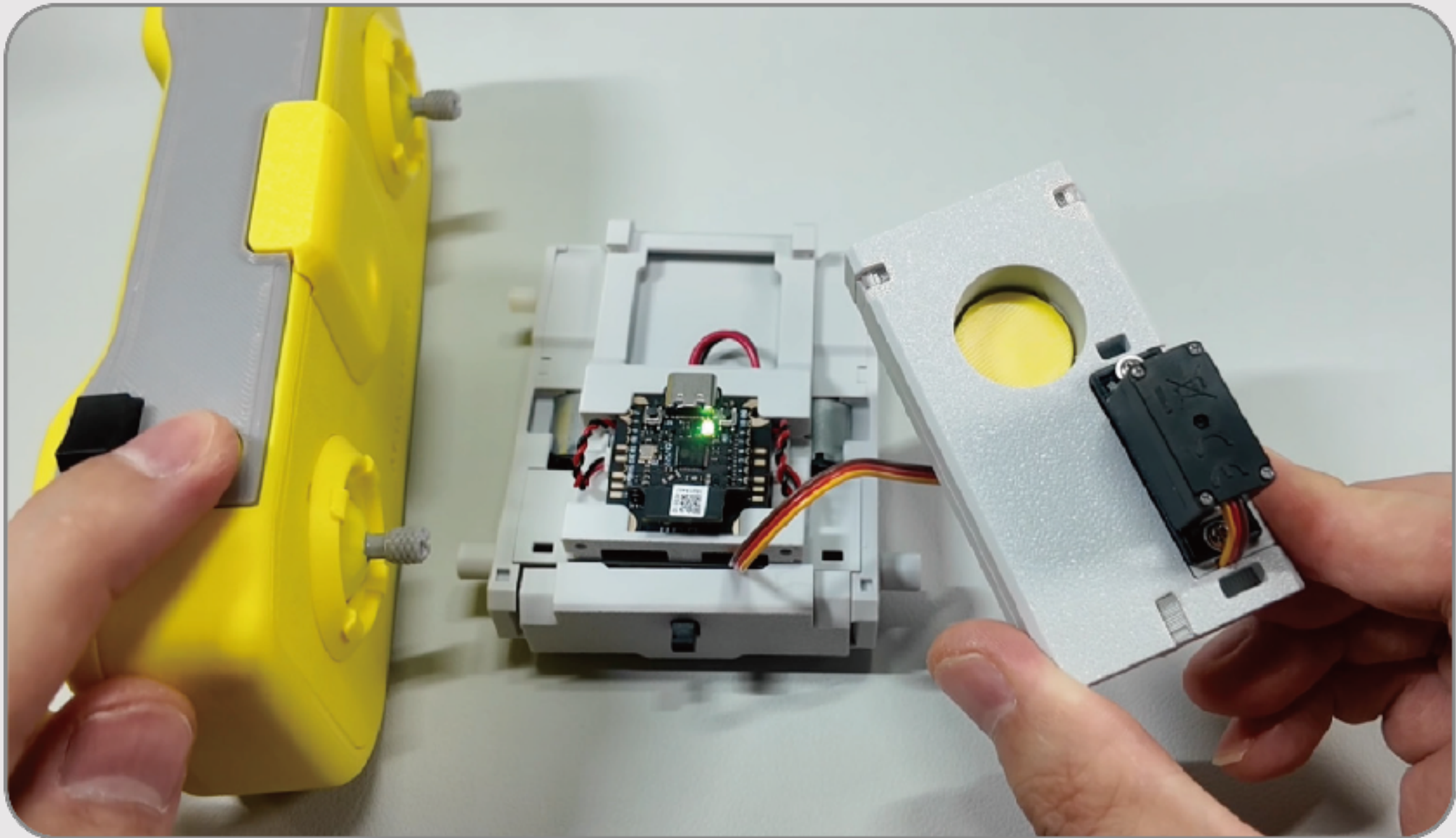


7

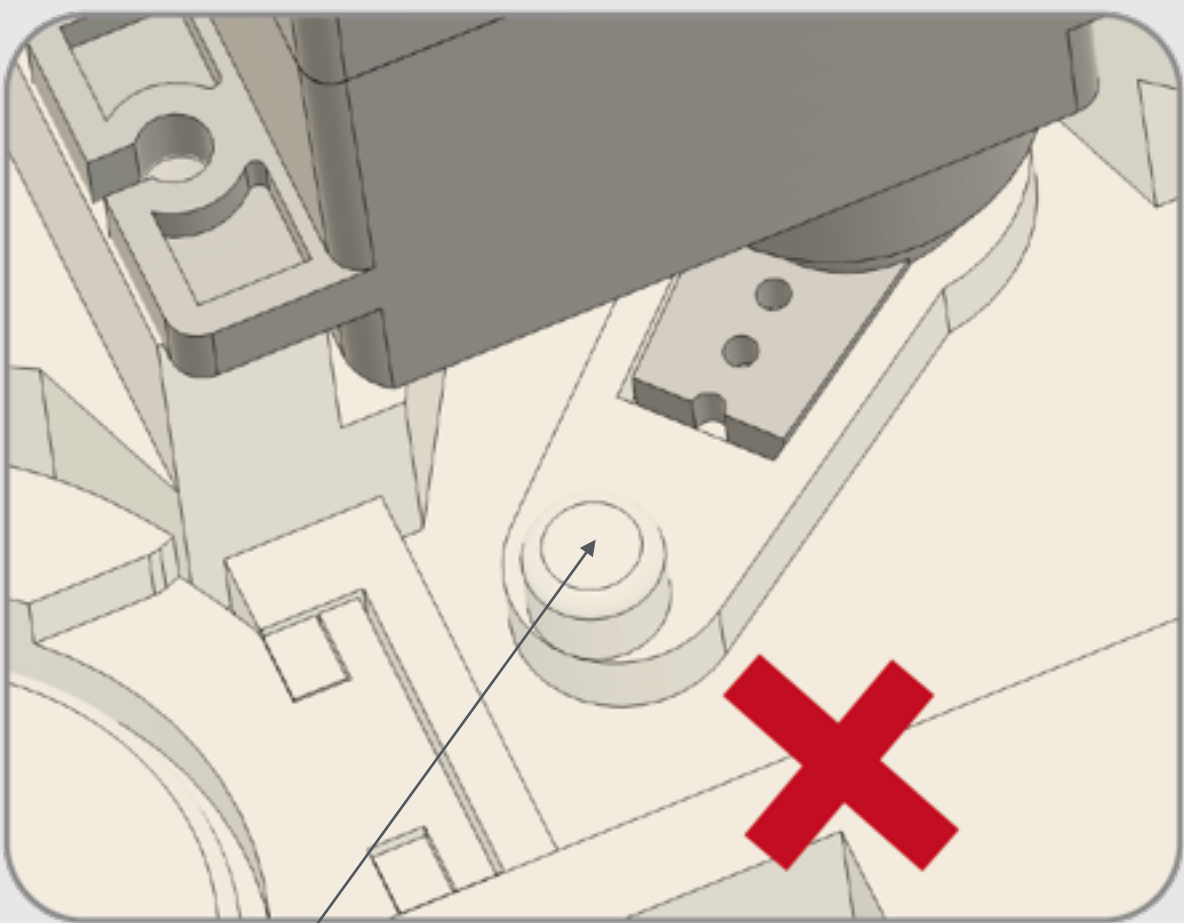
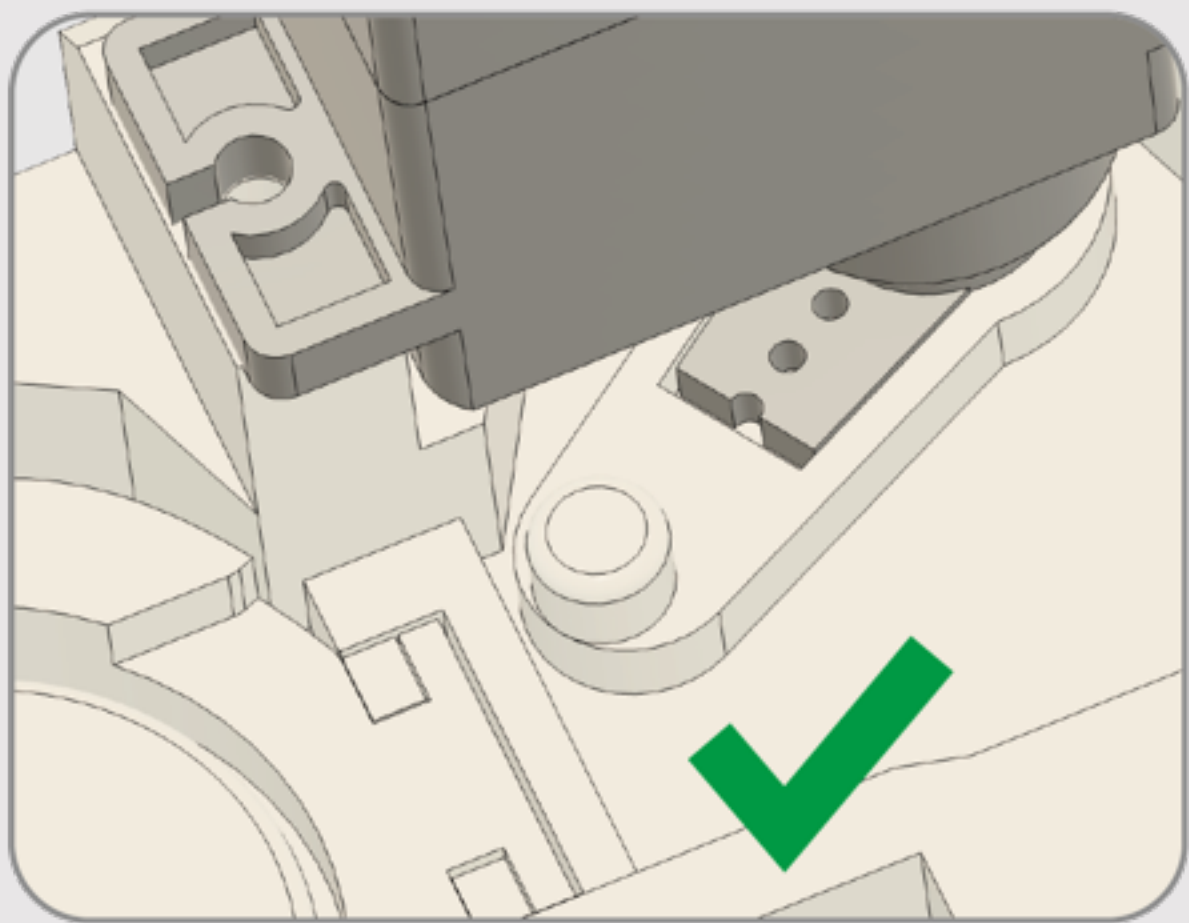




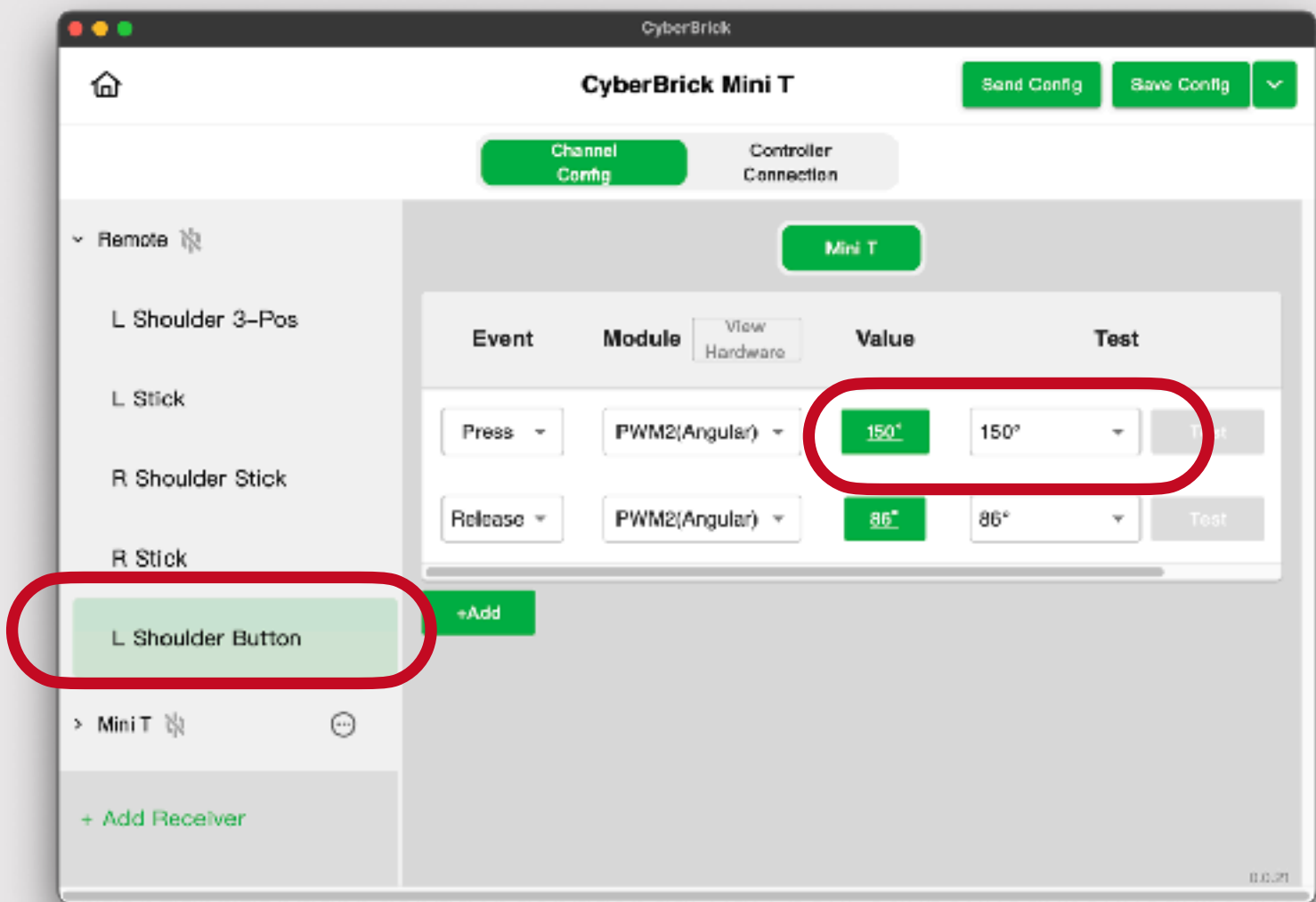
Press and hold the left shoulder button to launch the disc; release the button to reset the servo.



If the disc fails to launch normally, remove the cover and slider, then observe the state of the servo arm and adjust the parameters accordingly.



Rotating arm



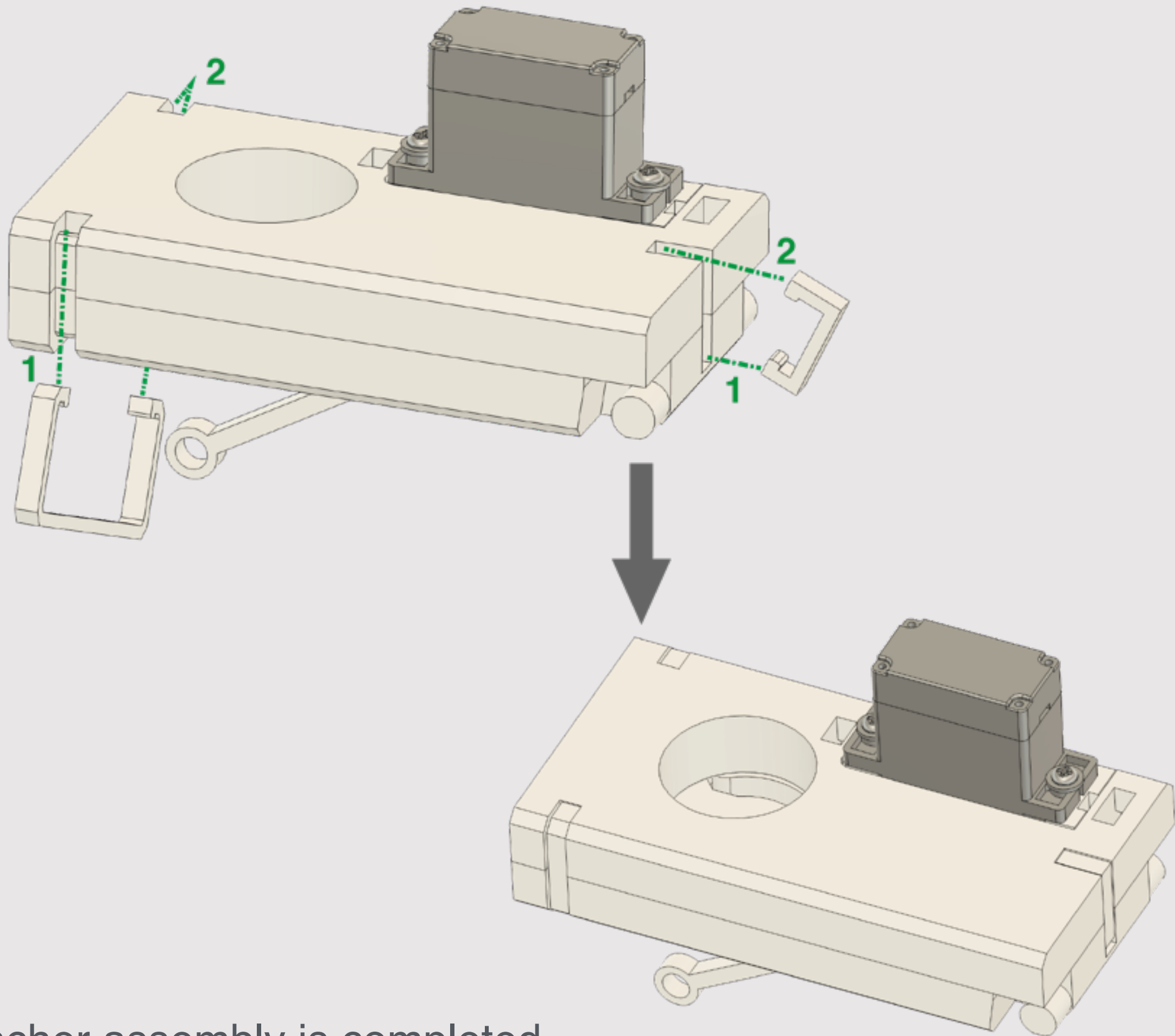
Press and hold the left shoulder button to observe the swing of the rotating arm.

Adjust the angle as shown in the left image and send the config, so that the rotating arm is as close as possible without colliding with the case. (The angle value should be around 150, with a slight fluctuation up and down)

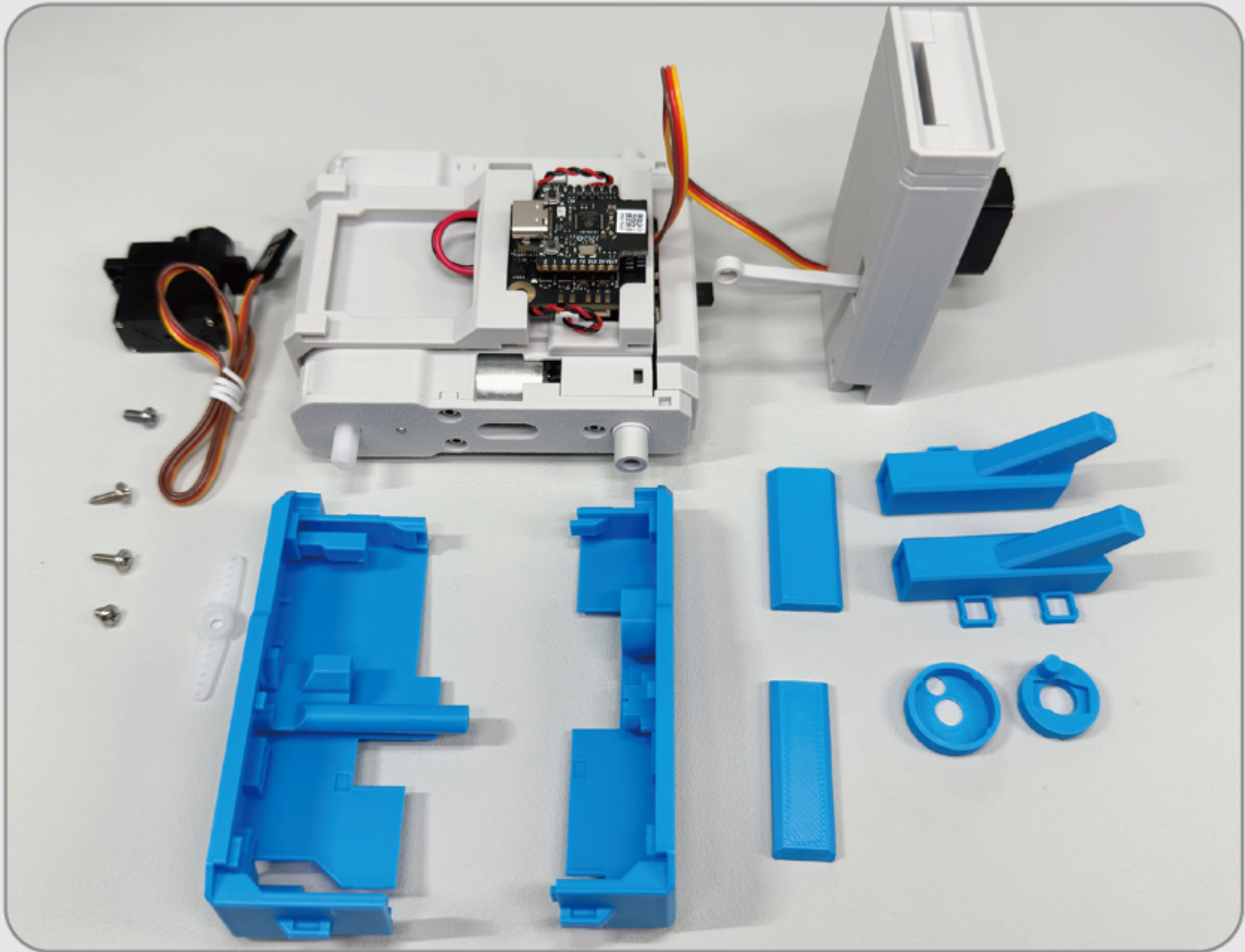
Turn off the power after Adjusting.



8

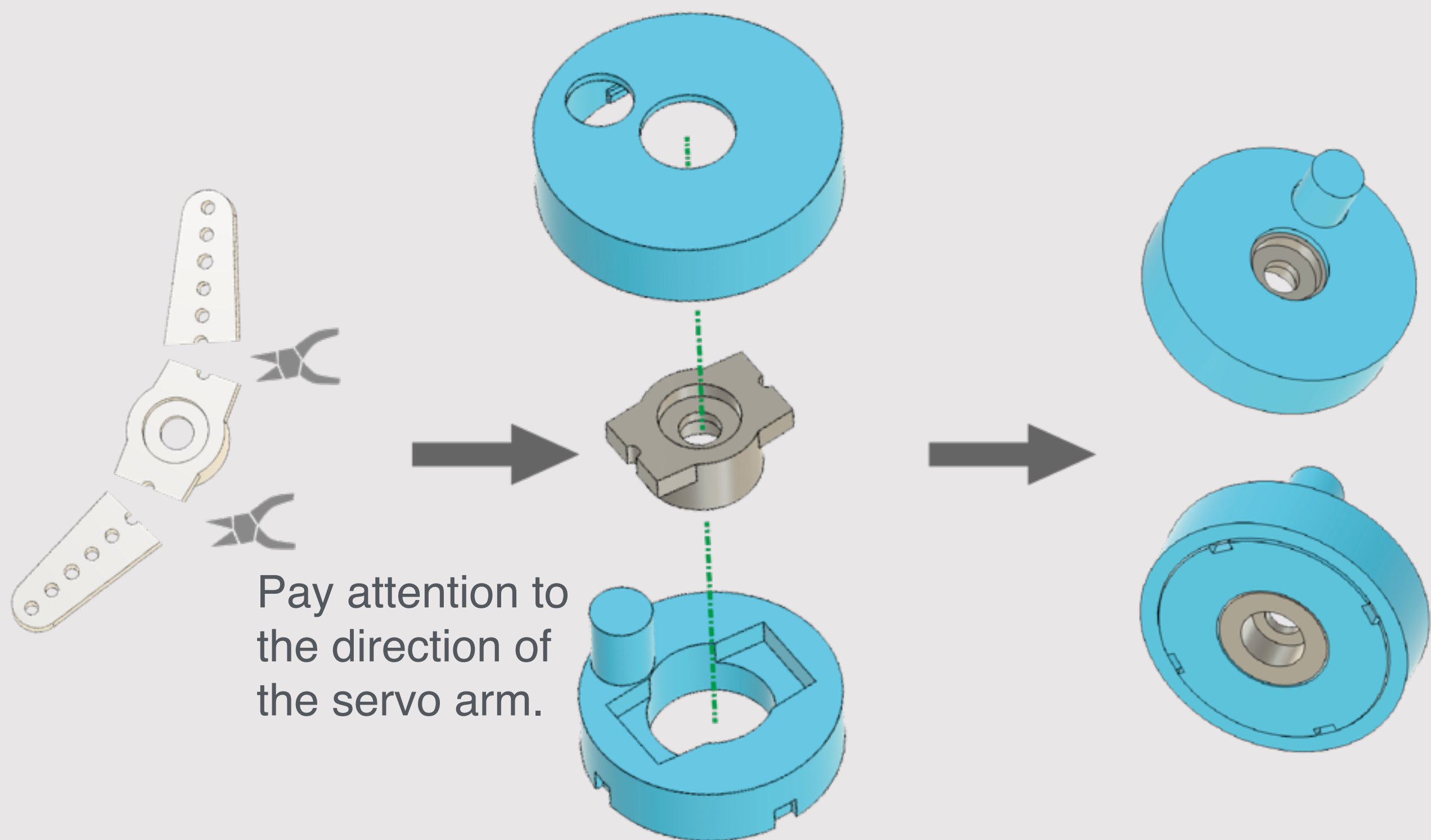


The launcher assembly is completed.



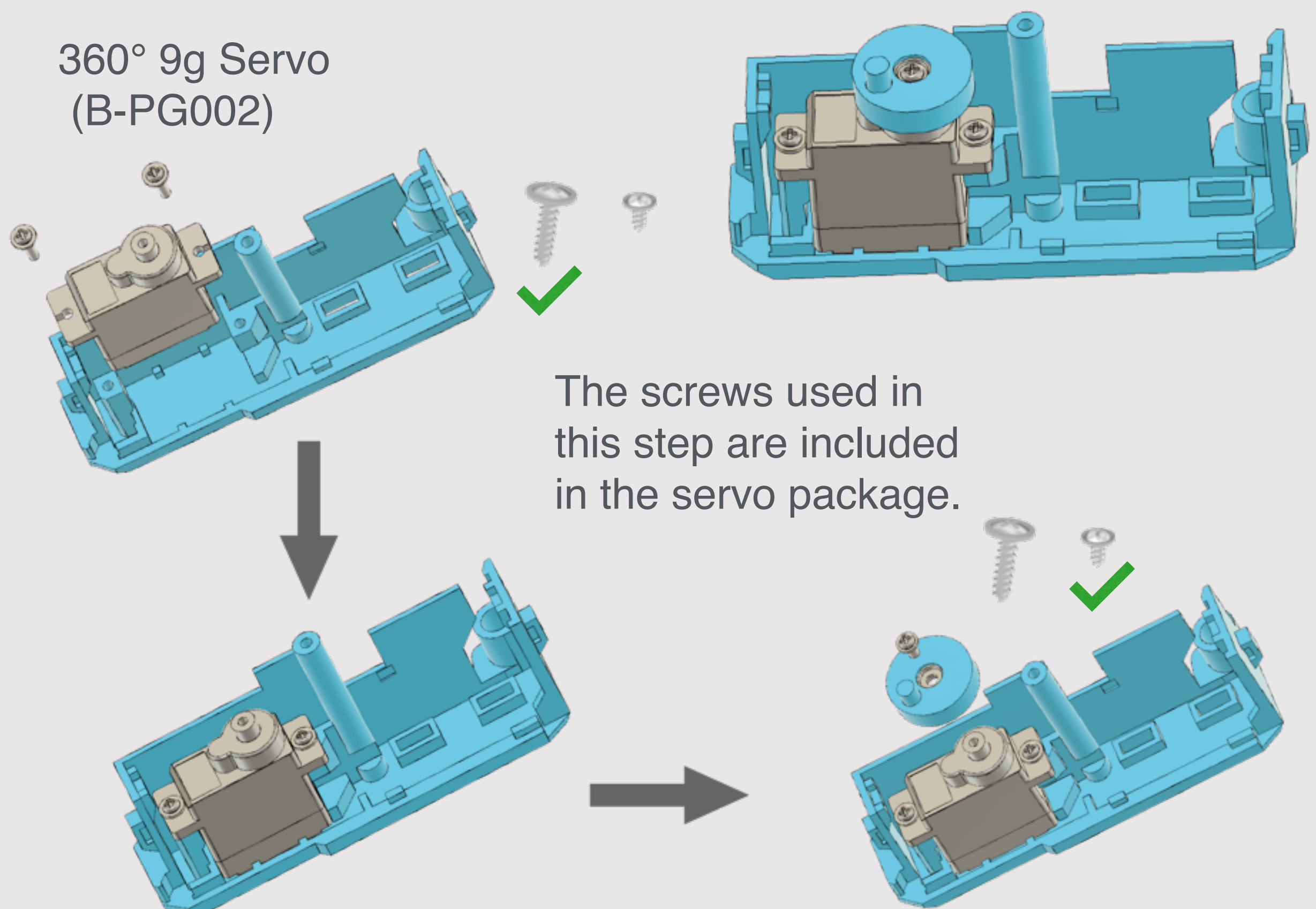


9

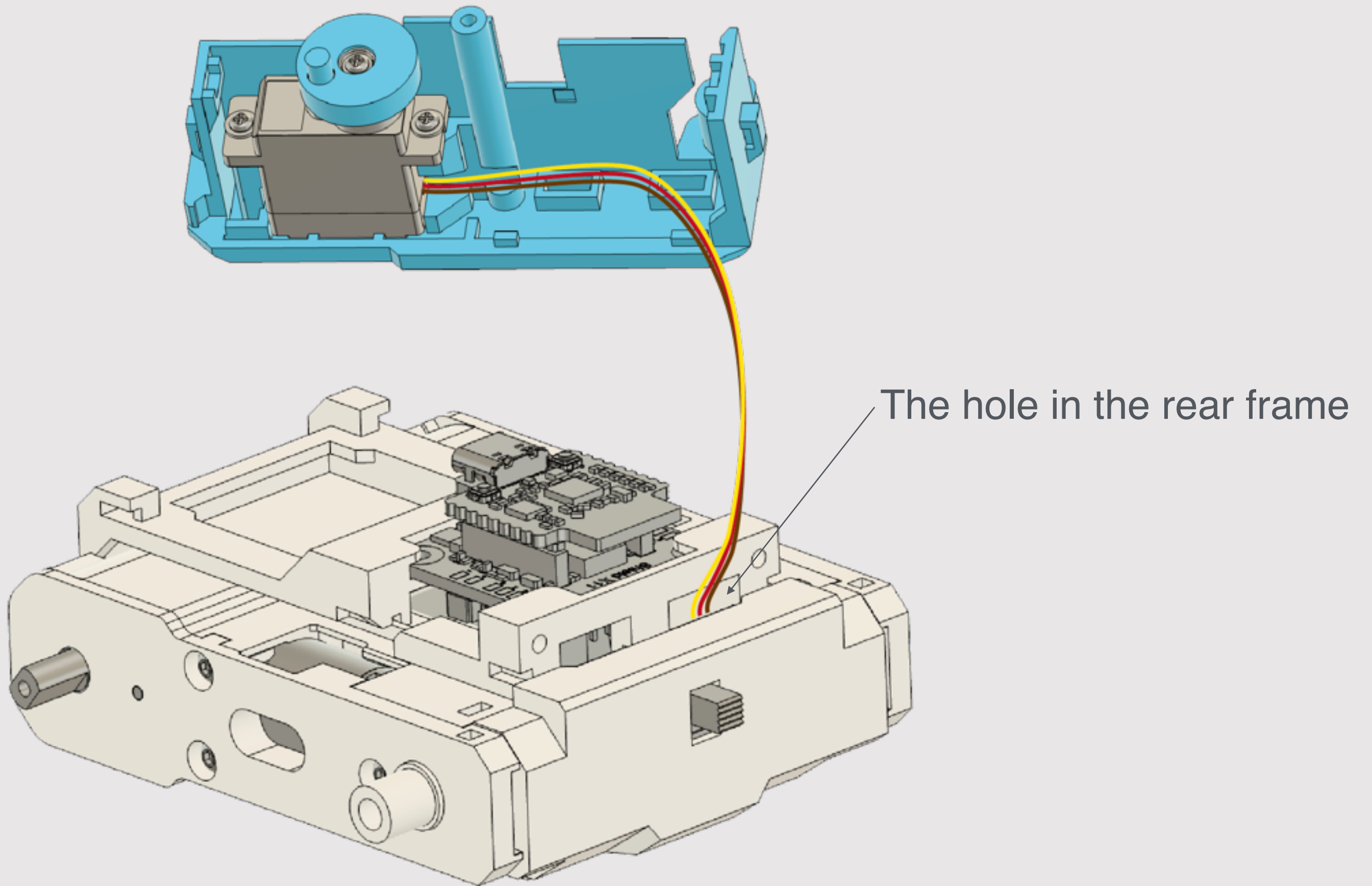


You can use a flat surface to assist with the assembly.

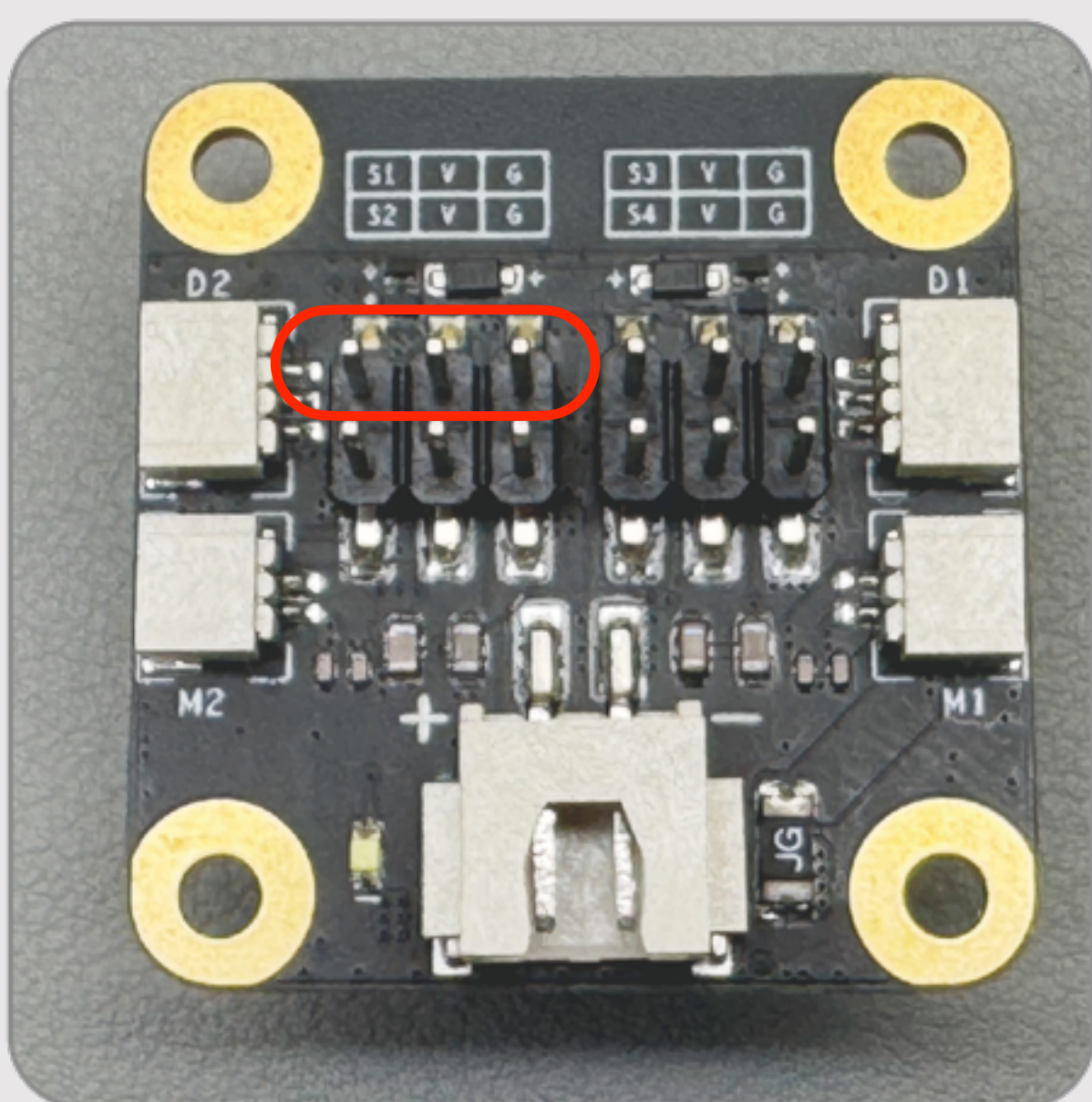
10



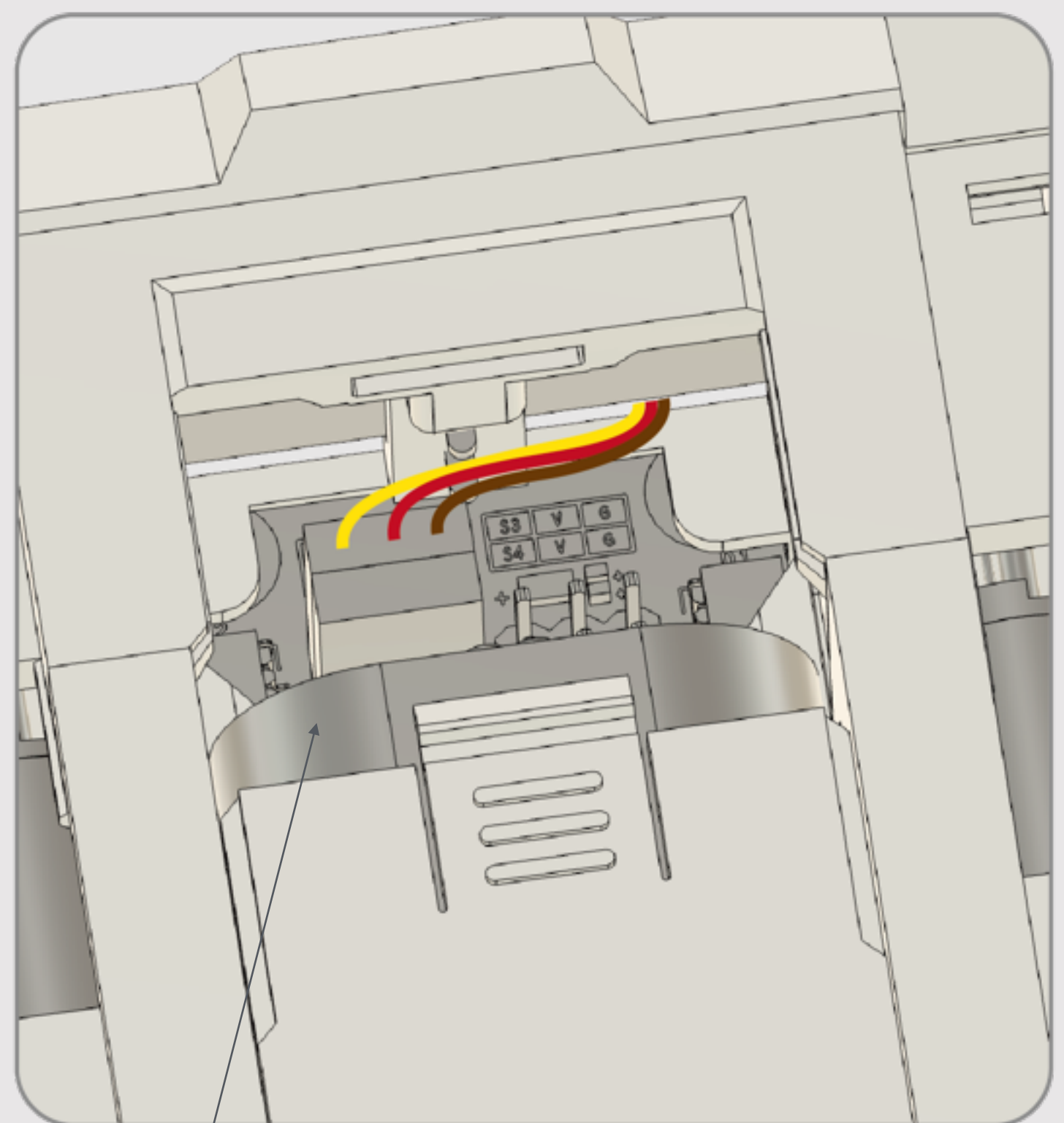




Pass the servo cable through the hole in the rear frame and plug them into the corresponding socket on the receiver board.

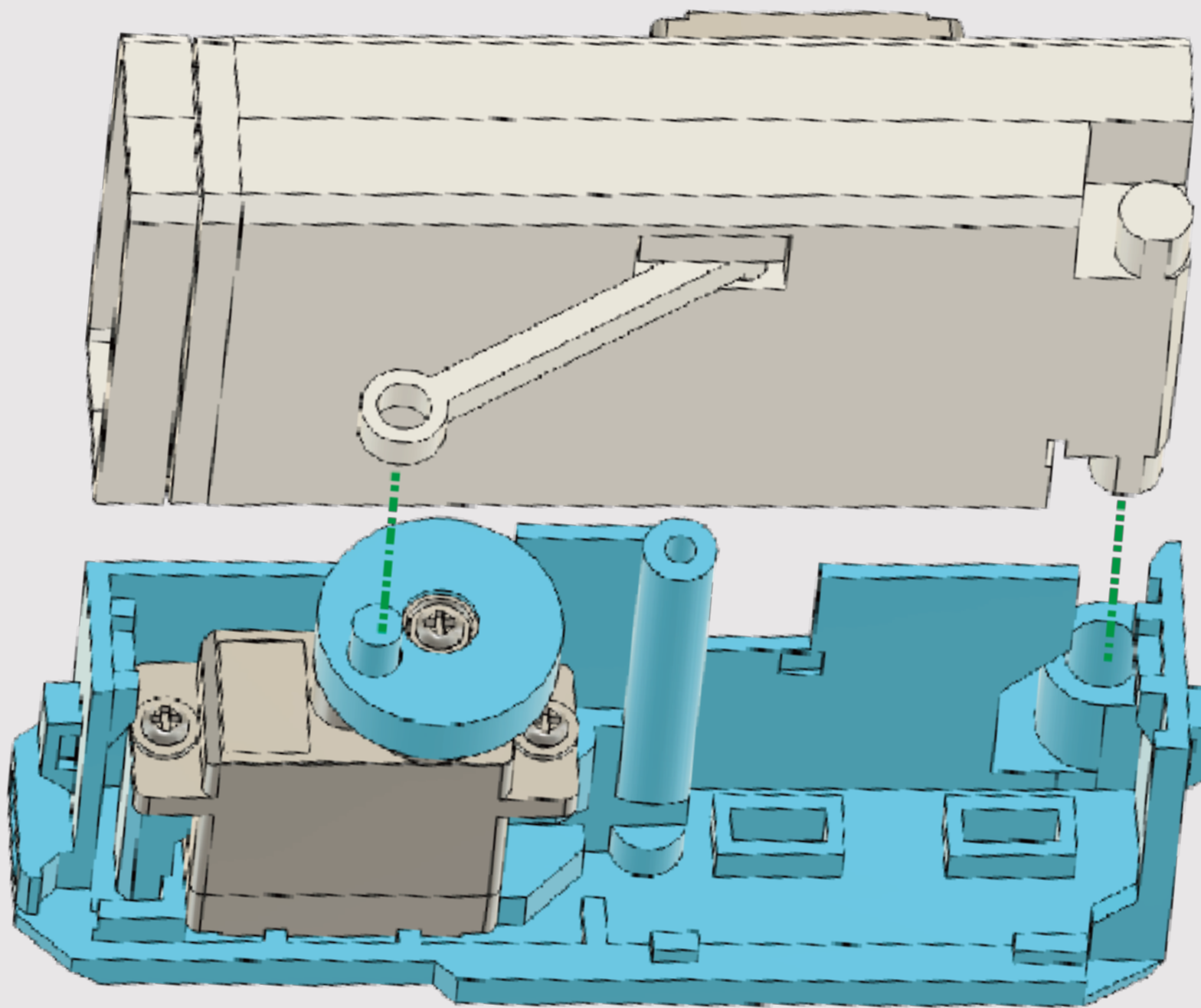


Connect to the S1 of the board, and pay attention to the wire colors.





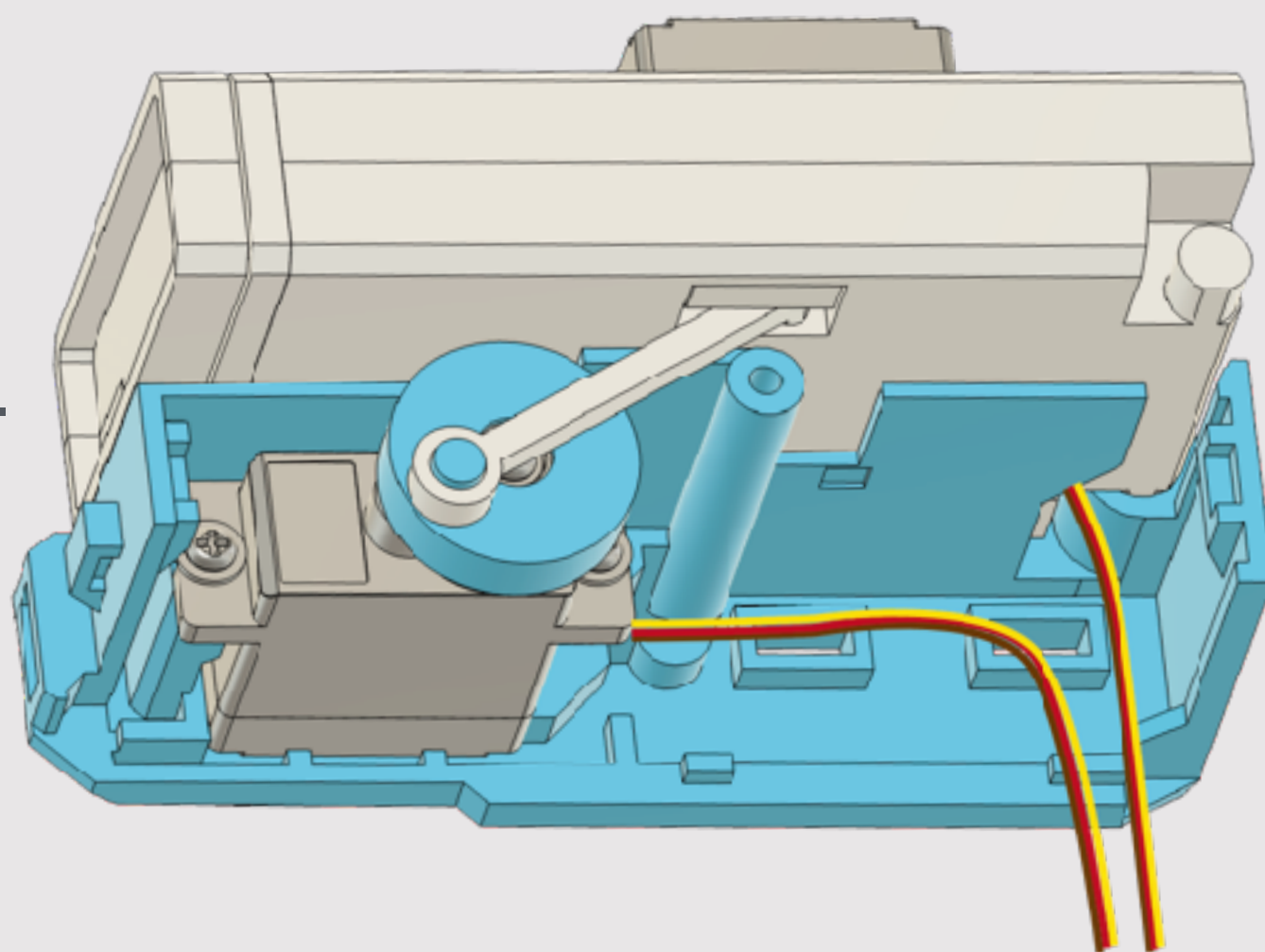
# 12



Align the two positions shown in the diagram and insert them.

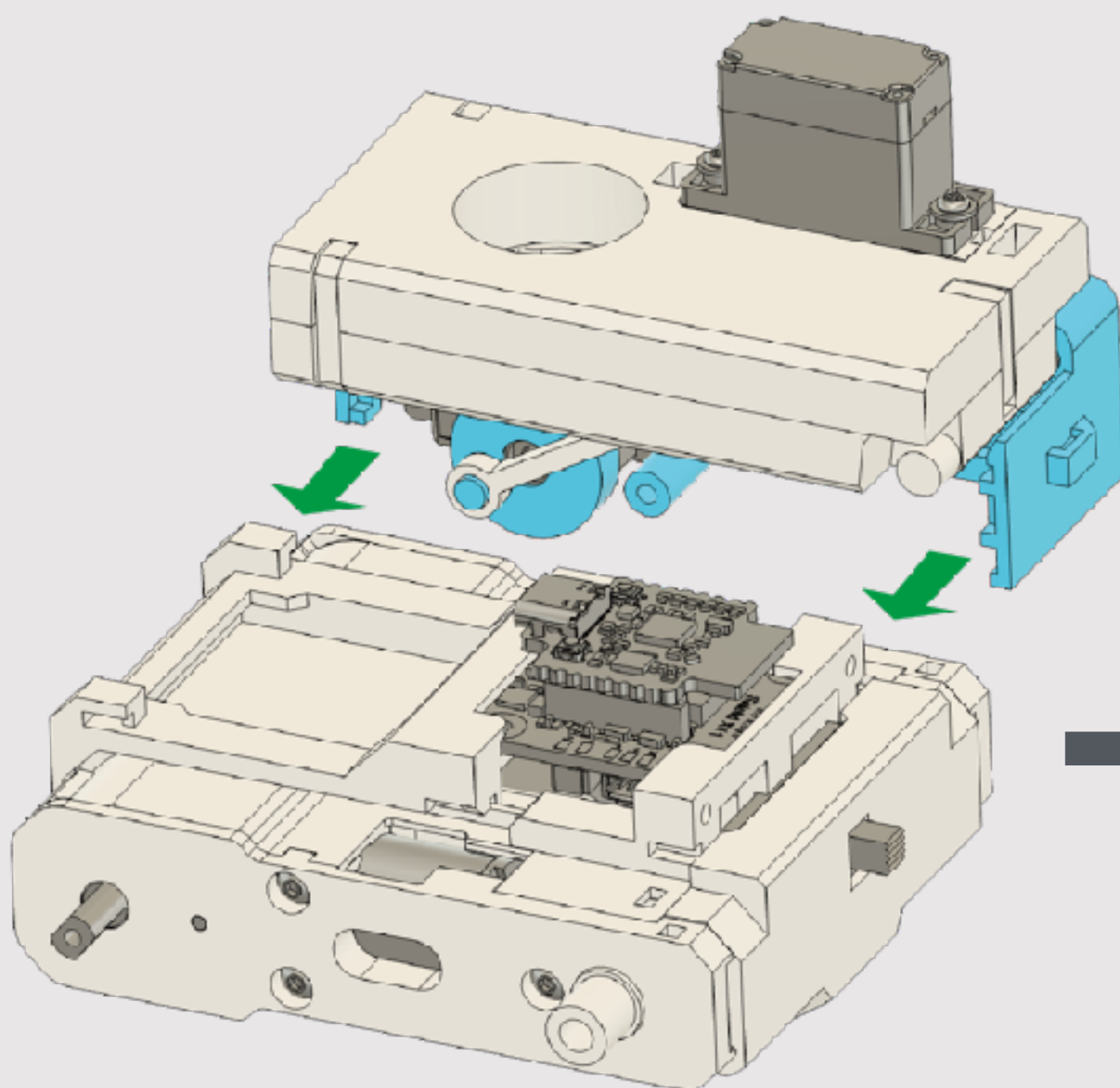


Pay attention to organizing the routing of the two servo cables.



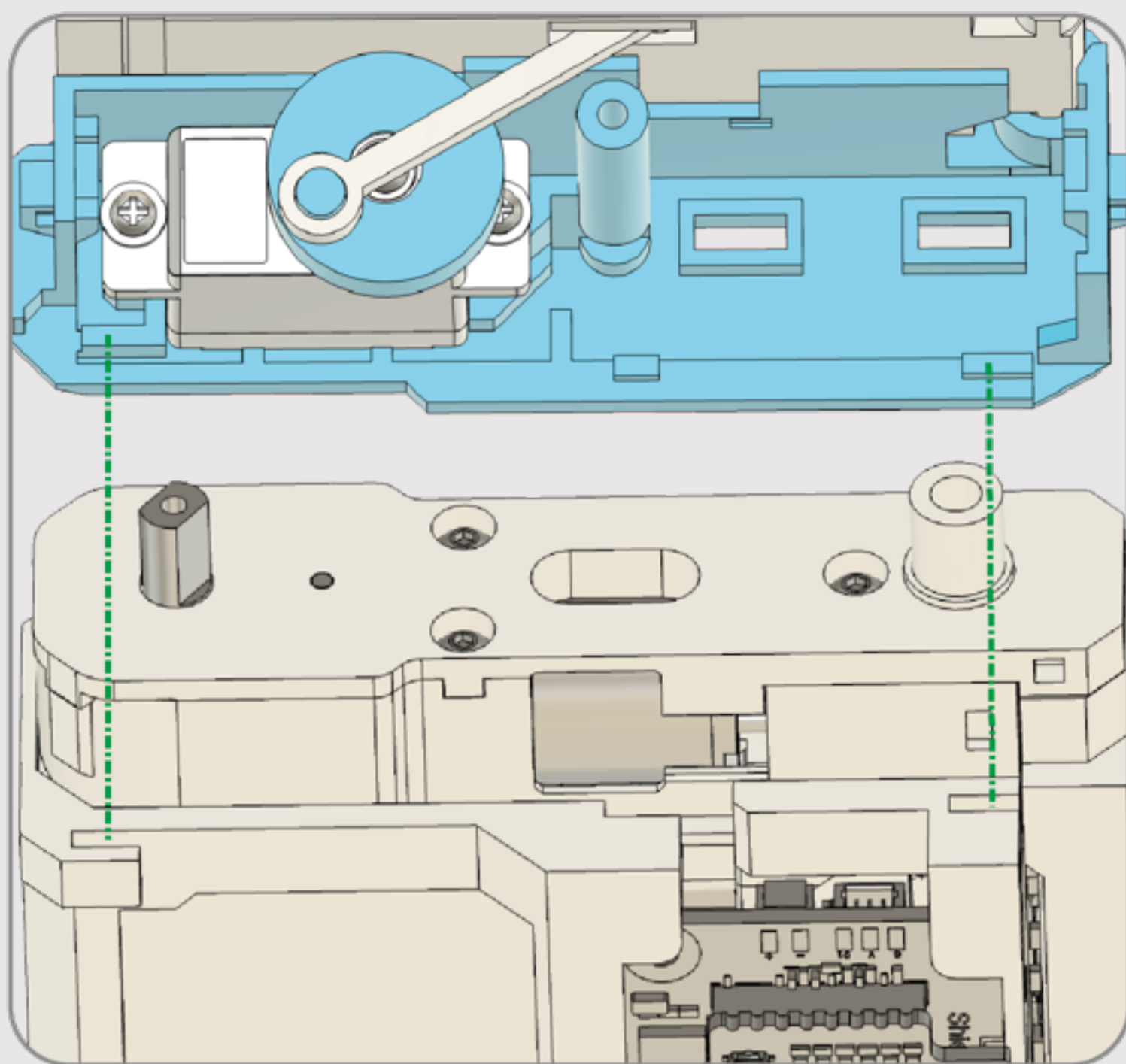
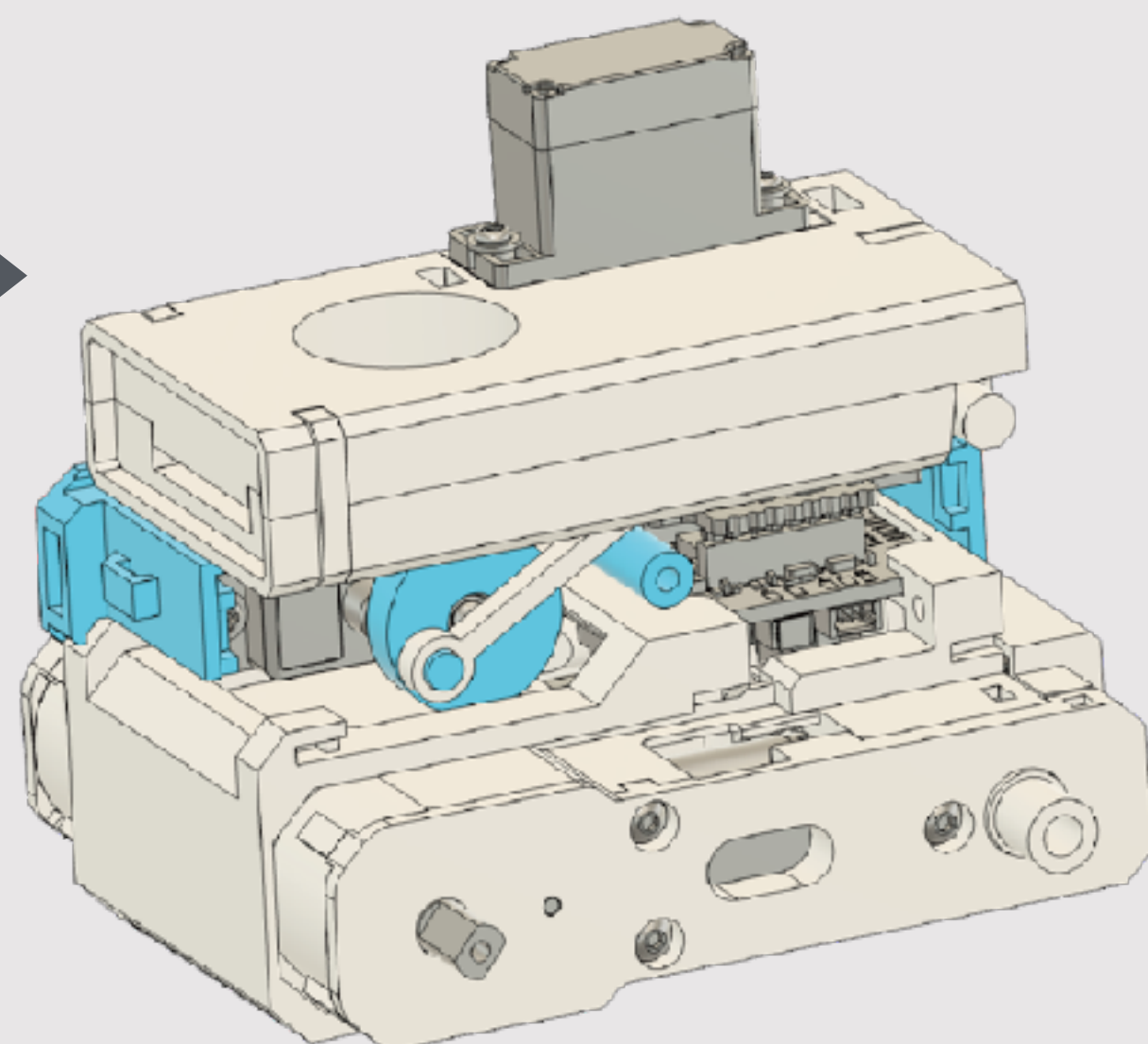
As shown in the diagram, the wires of the servo must be smooth, free of wrinkles, and not twisted.



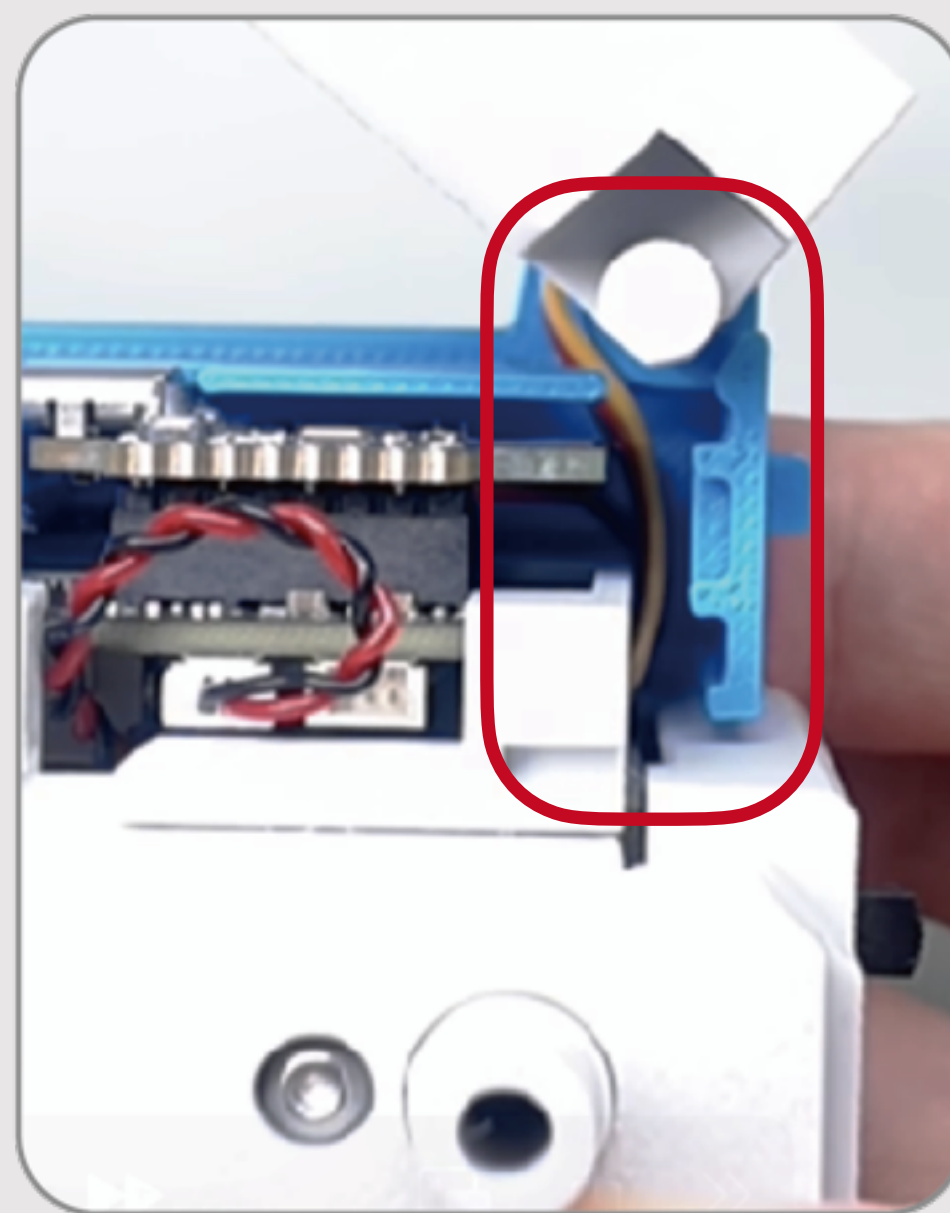


Assembly from the side

For this step, you need to pull the excess servo wires into the battery compartment while assembling.



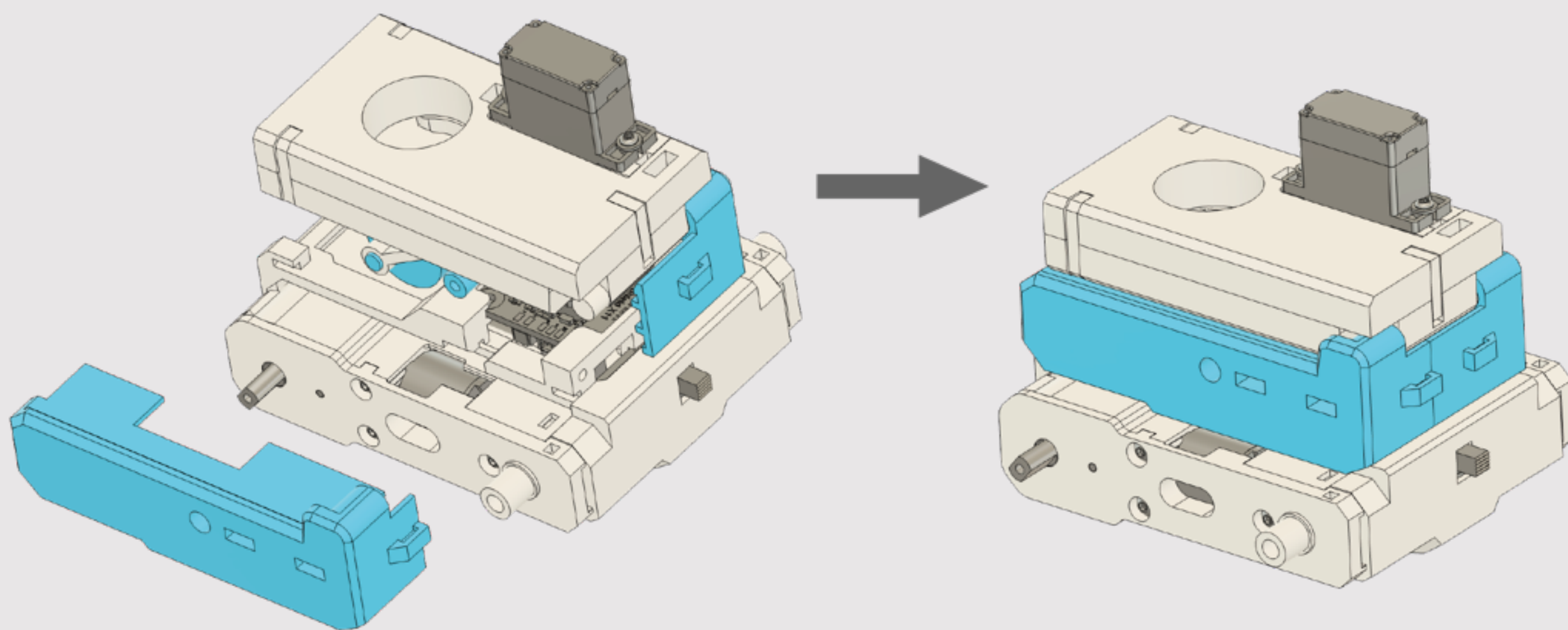
Pay attention to the corresponding positions of the notches.



Pay attention to the state of the servo wires after assembly.



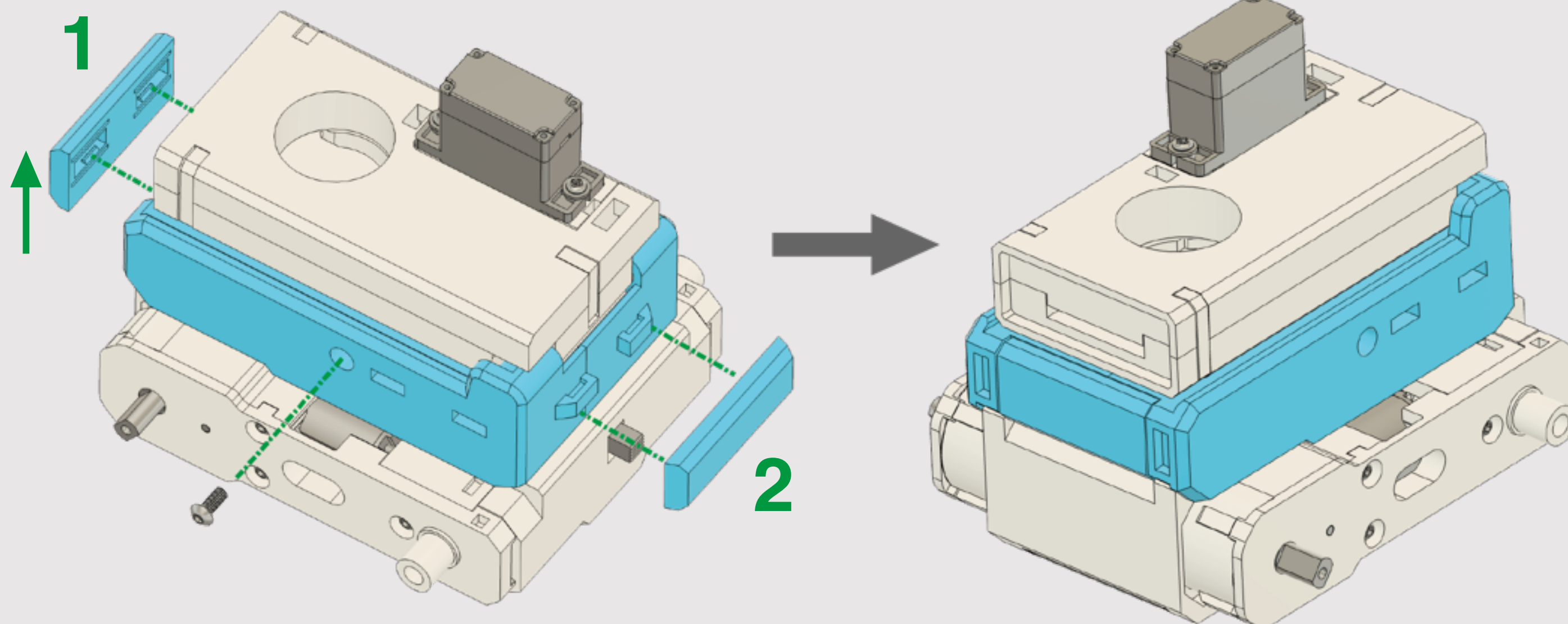
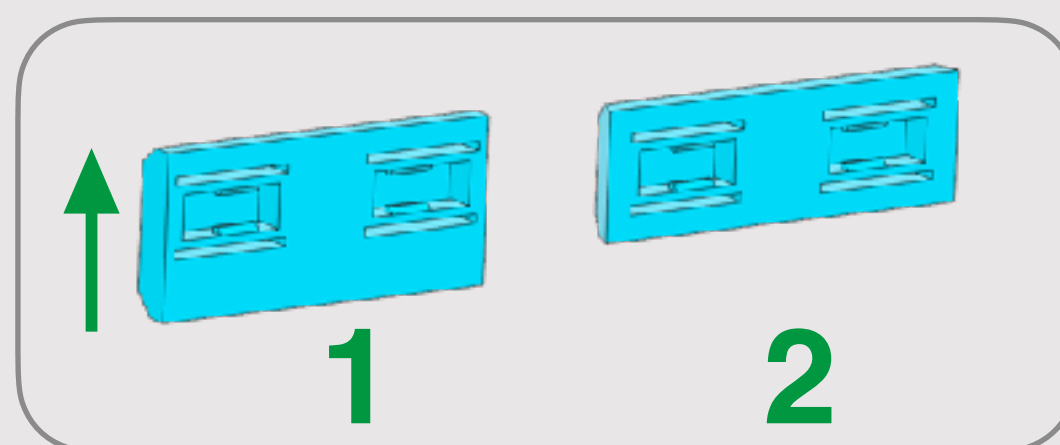
# 14



# 15

Please note to distinguish between Buckle 1 and Buckle 2.

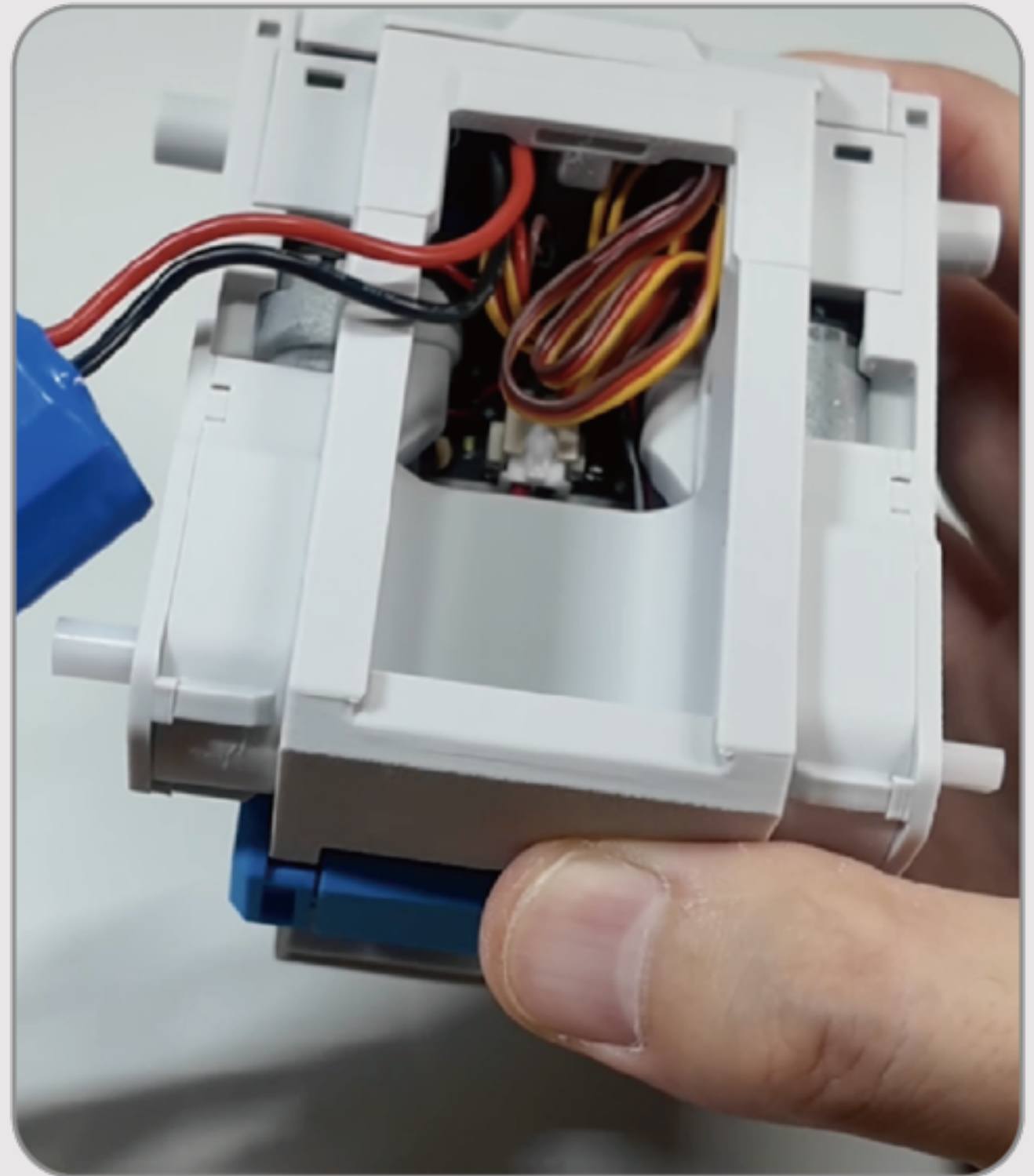
Pay attention to the direction of the 1 buckle.



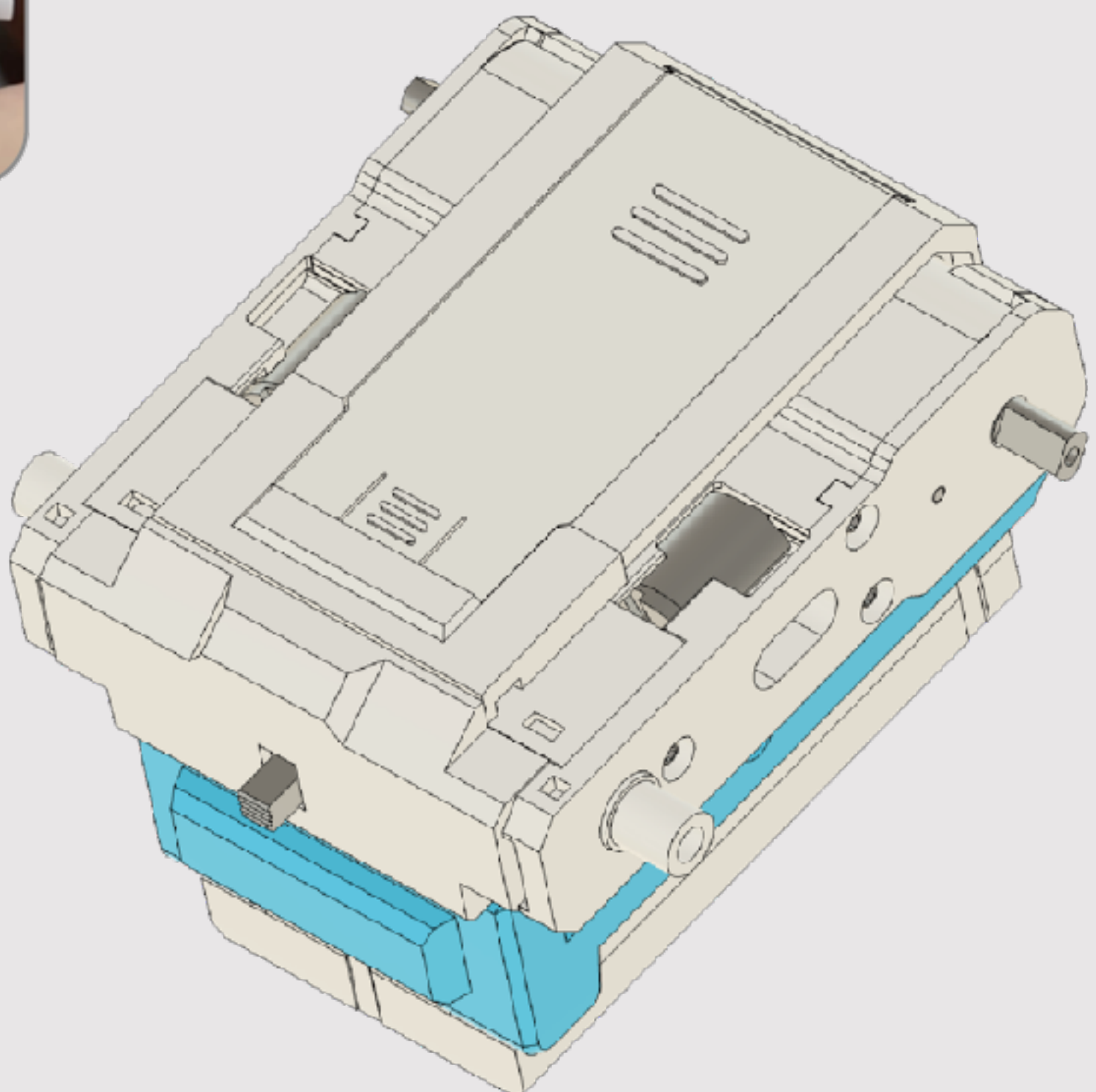
M2.5x6 BHCS Machine Screw



Insert the battery into the battery compartment, store and organize the cables inside the compartment, then slide the bottom cover to close it.

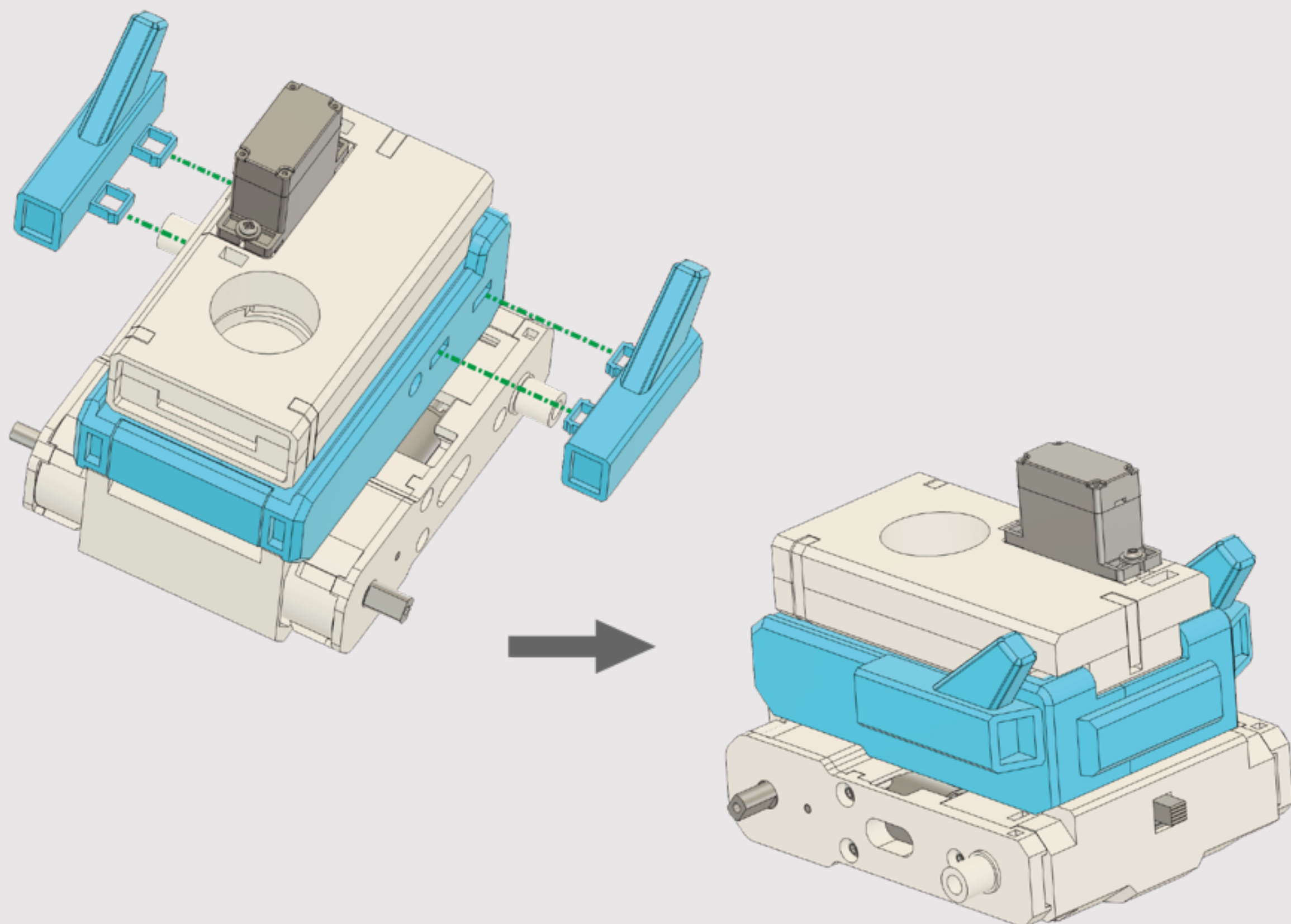


Please note the direction of the cover.



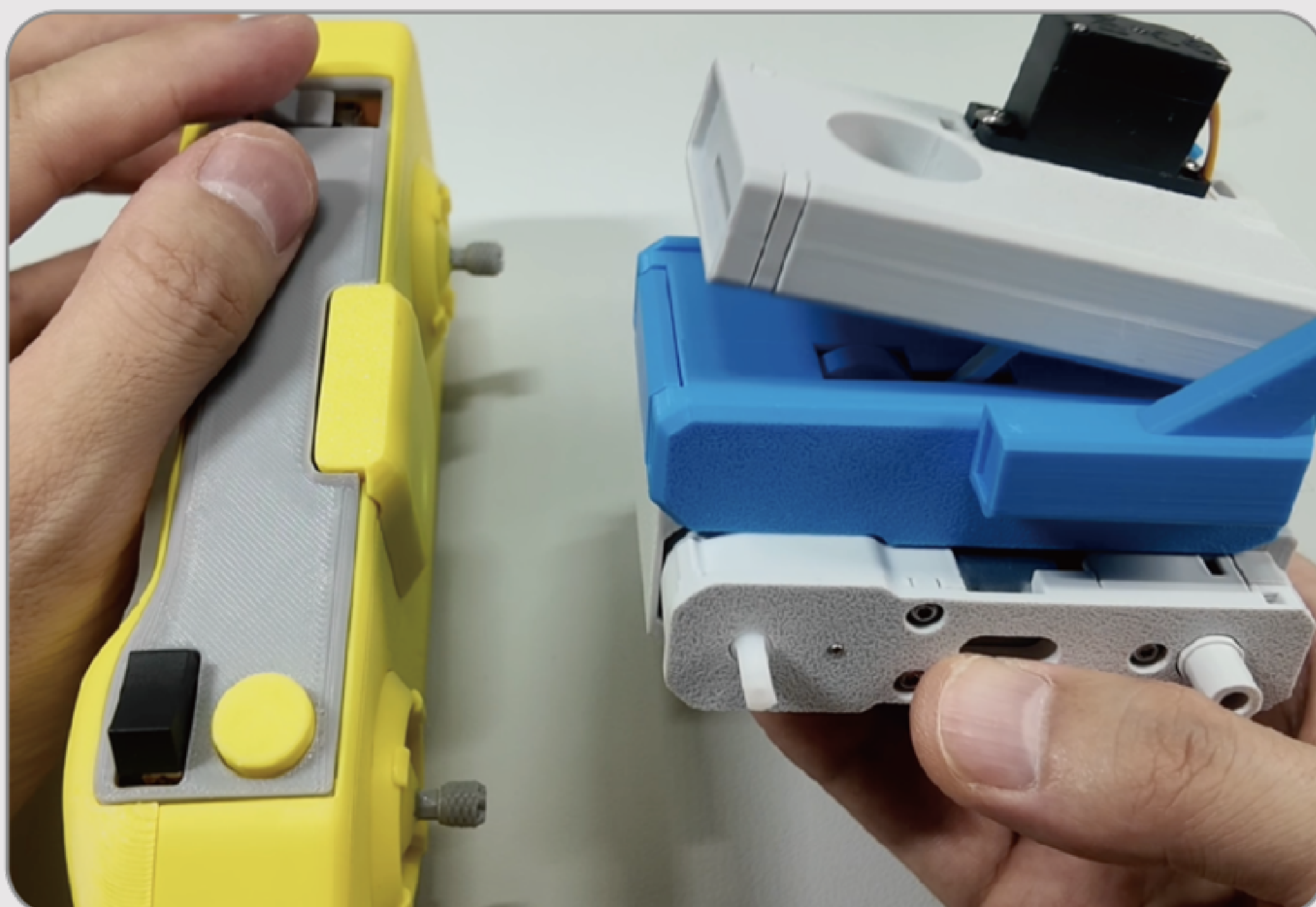


# 17



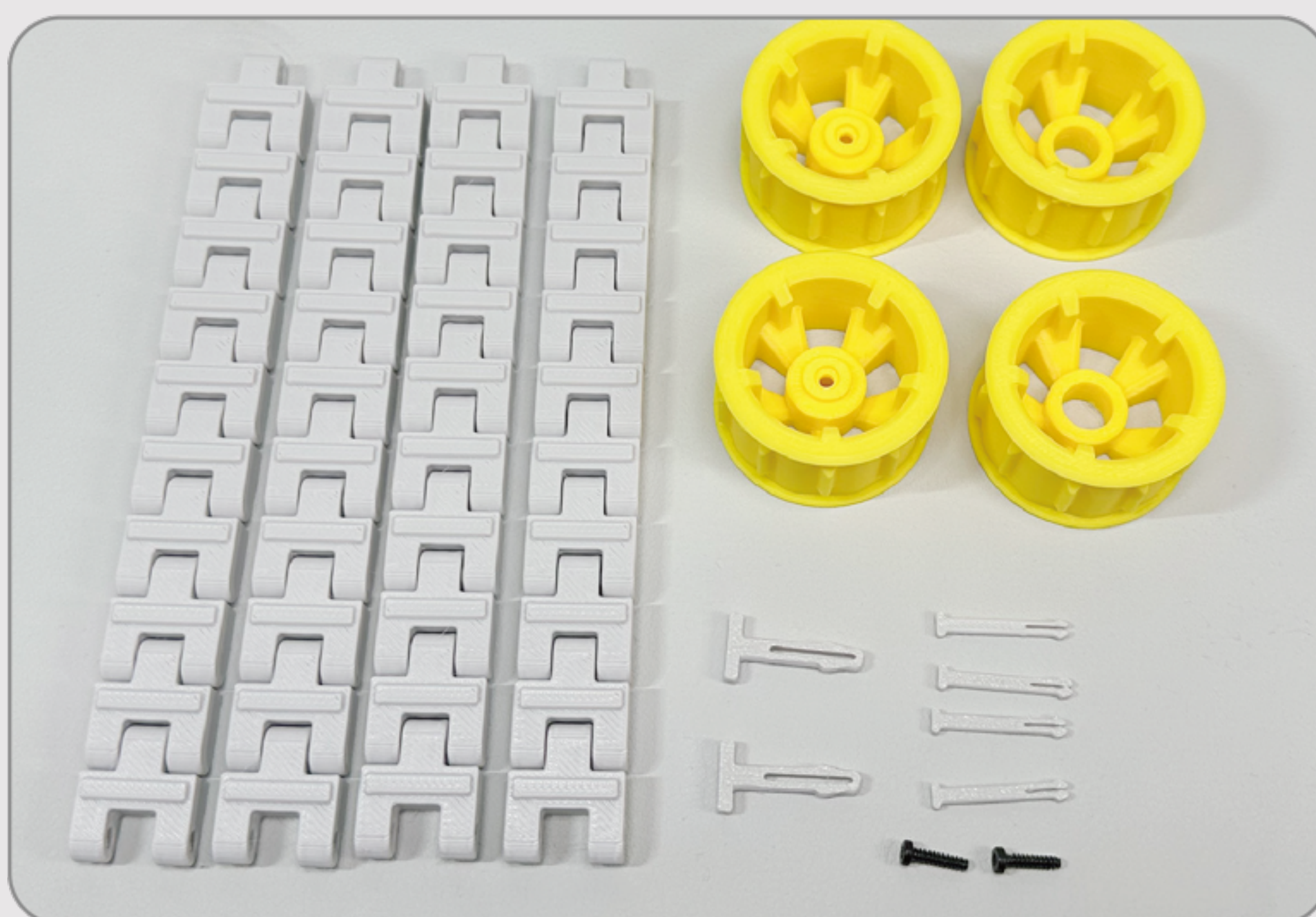
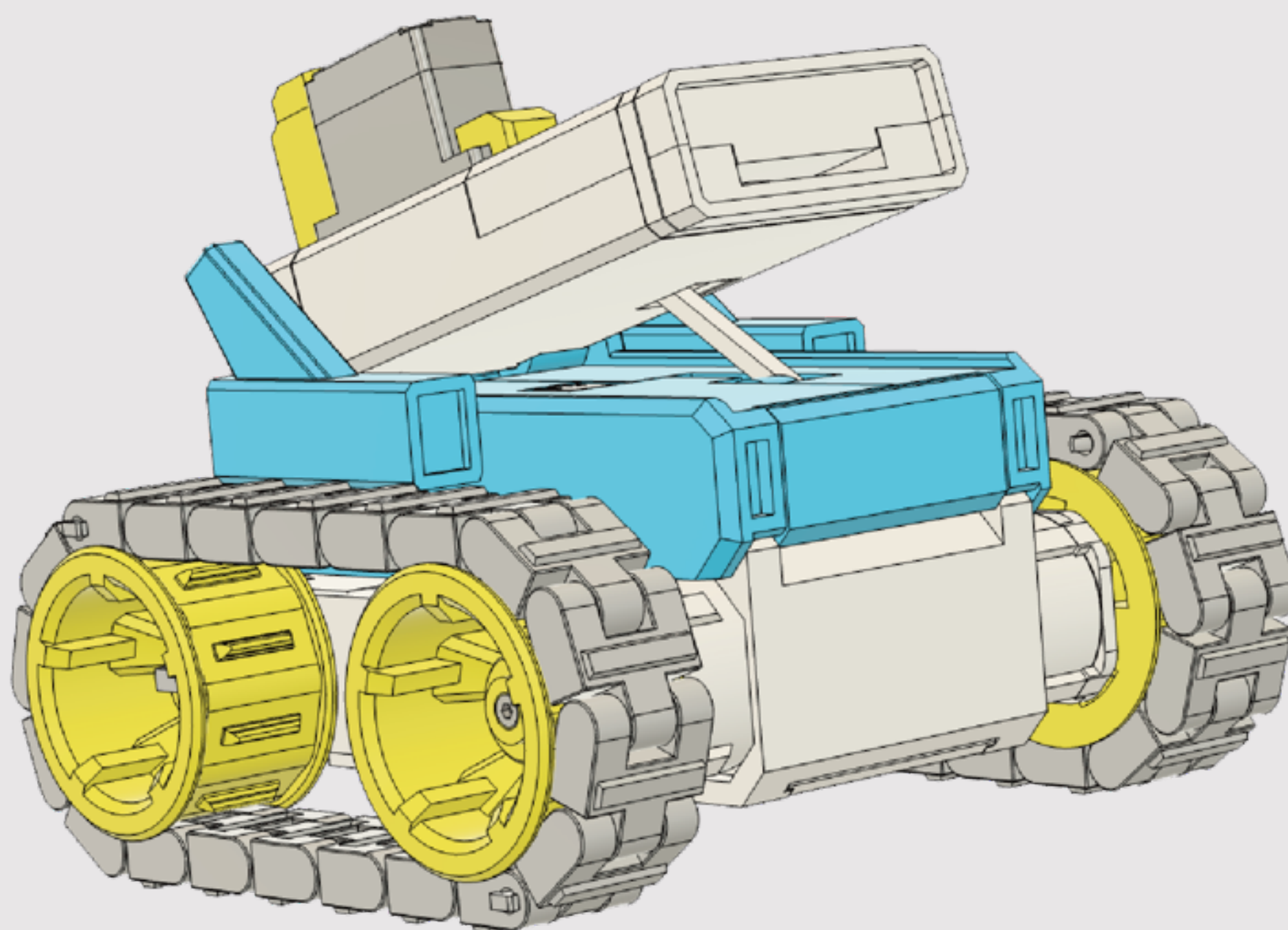
**The expansion module assembly is completed.**

Turn on the power of the remote controller and the chassis.  
For the single-channel switch on the right shoulder, toggling it up and down corresponds to the clockwise and counterclockwise rotation of the 360-degree servo respectively.  
Turn off the power after completion.



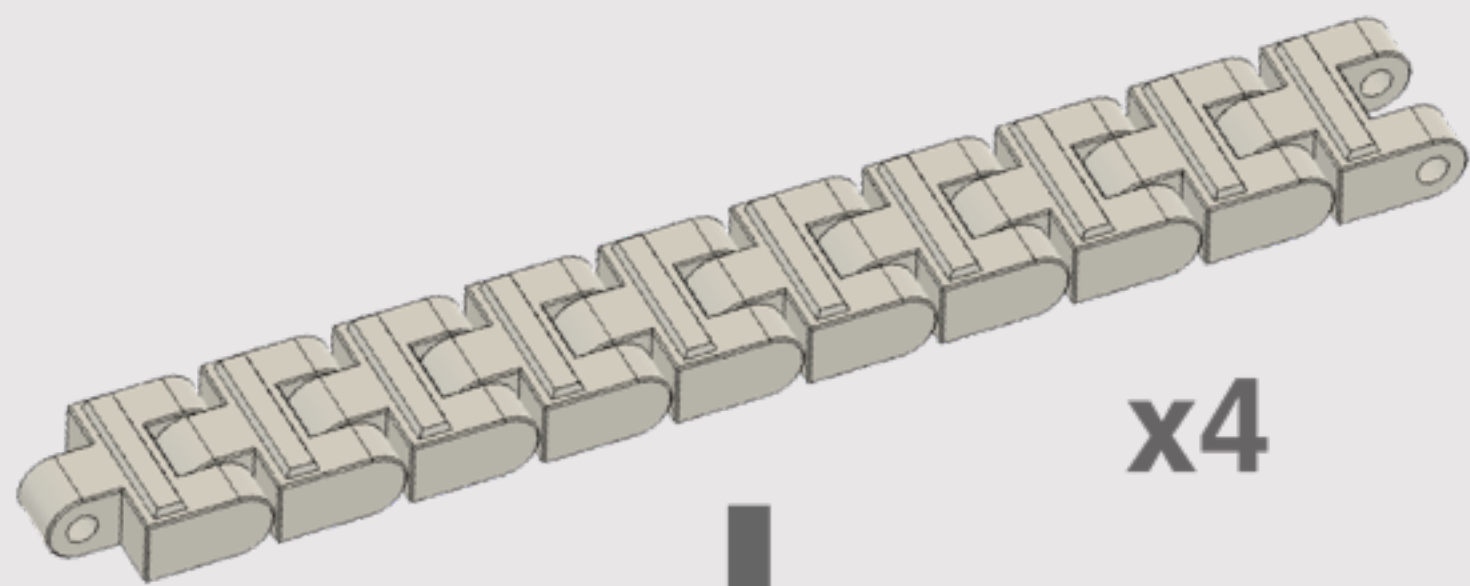


# Wheel and Track

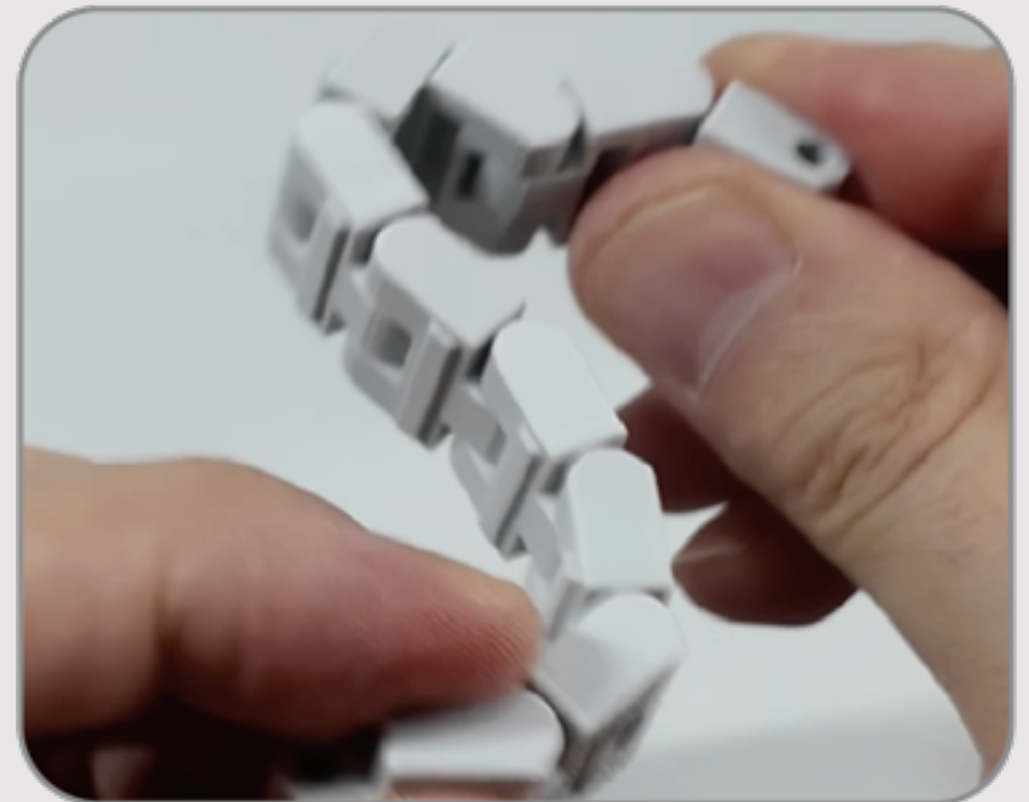
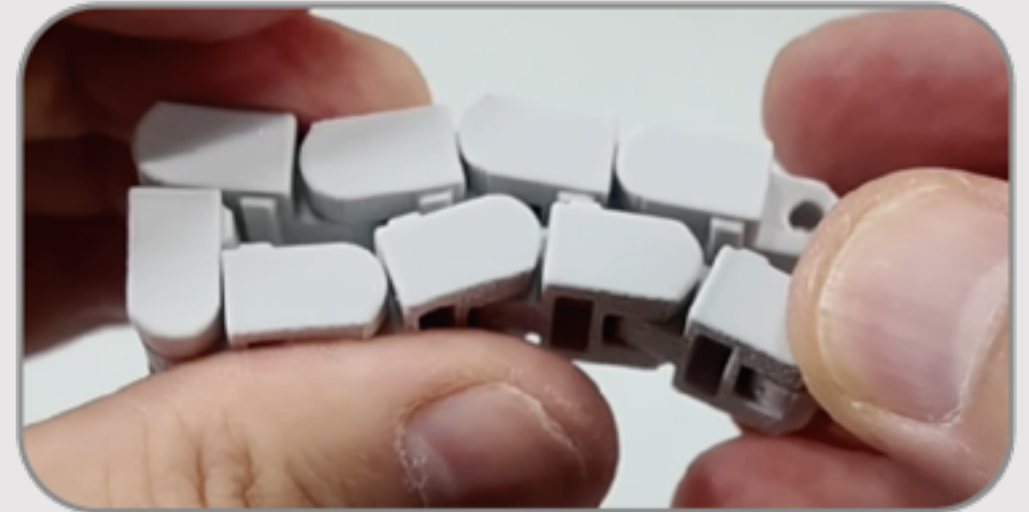
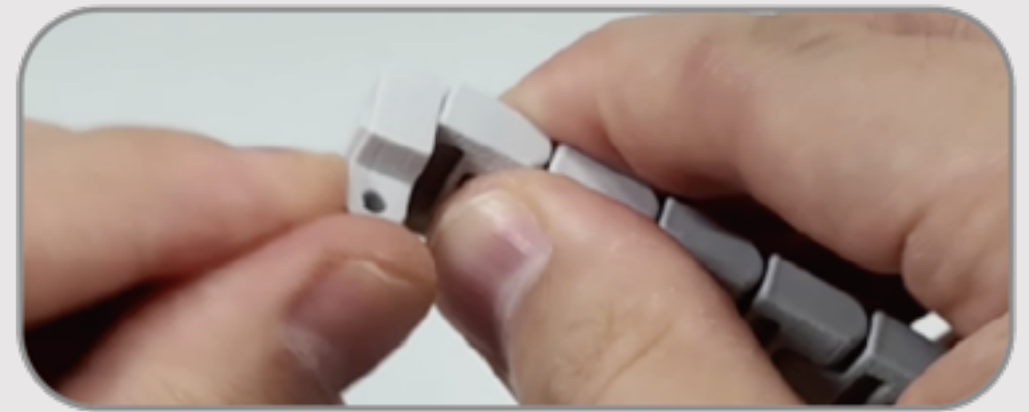
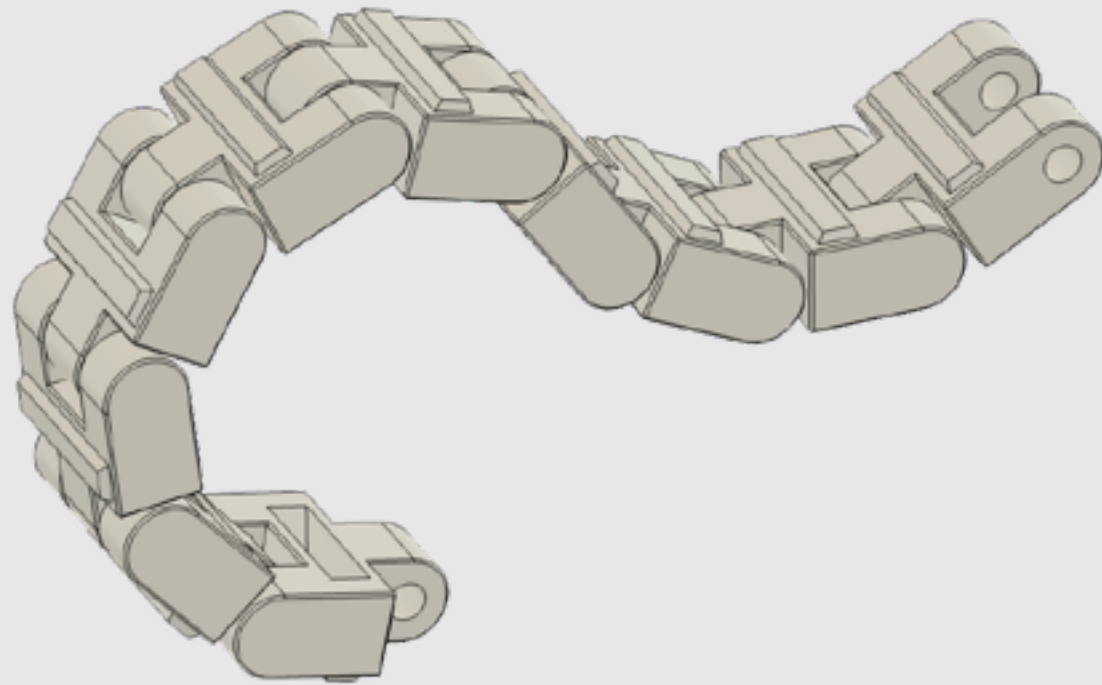




# 1

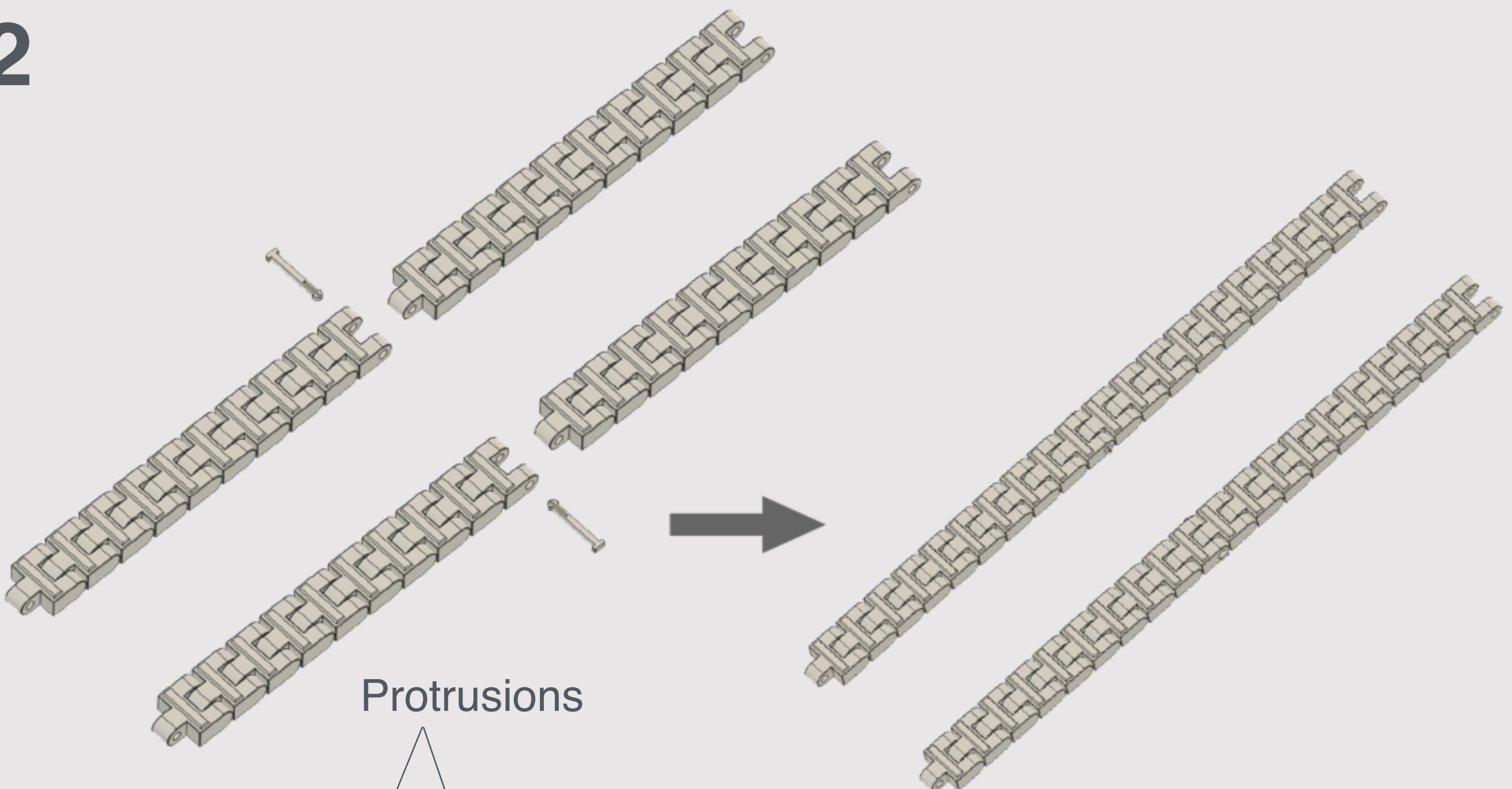


x4

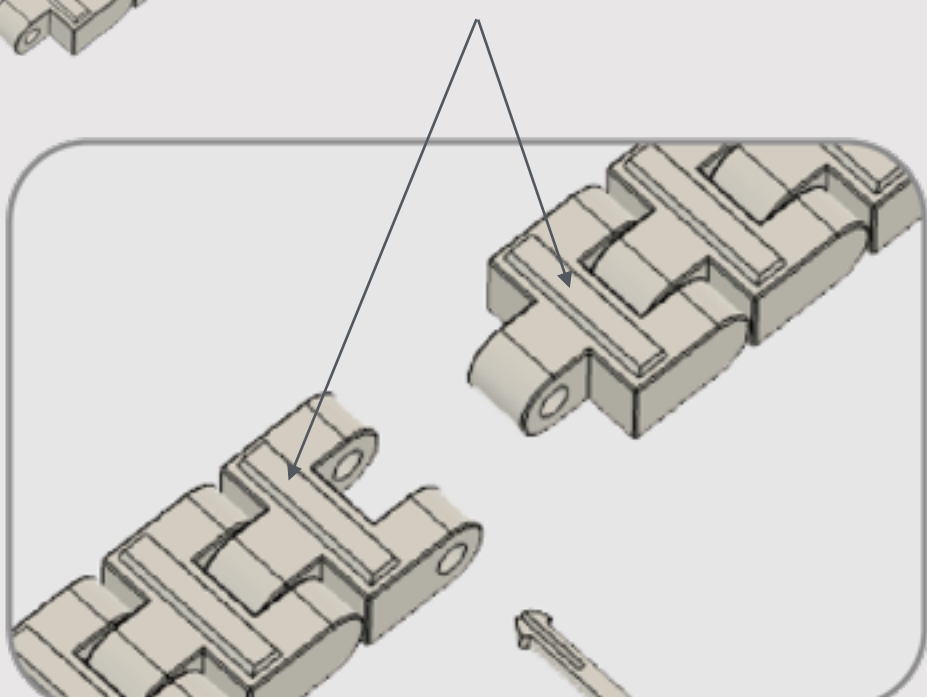


Move each section of the track thoroughly and repeatedly to ensure it can move smoothly without obstruction.

# 2



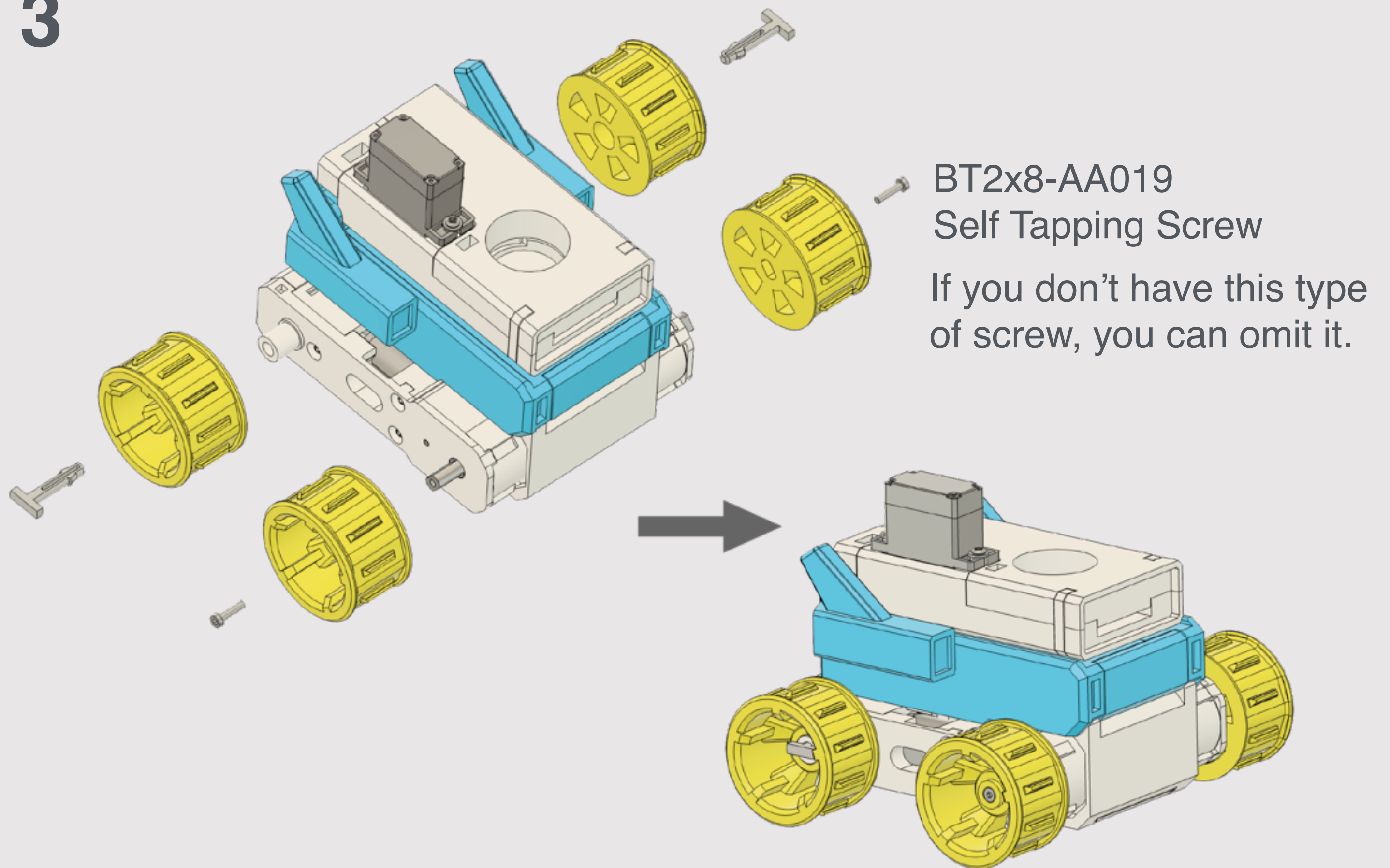
Protrusions



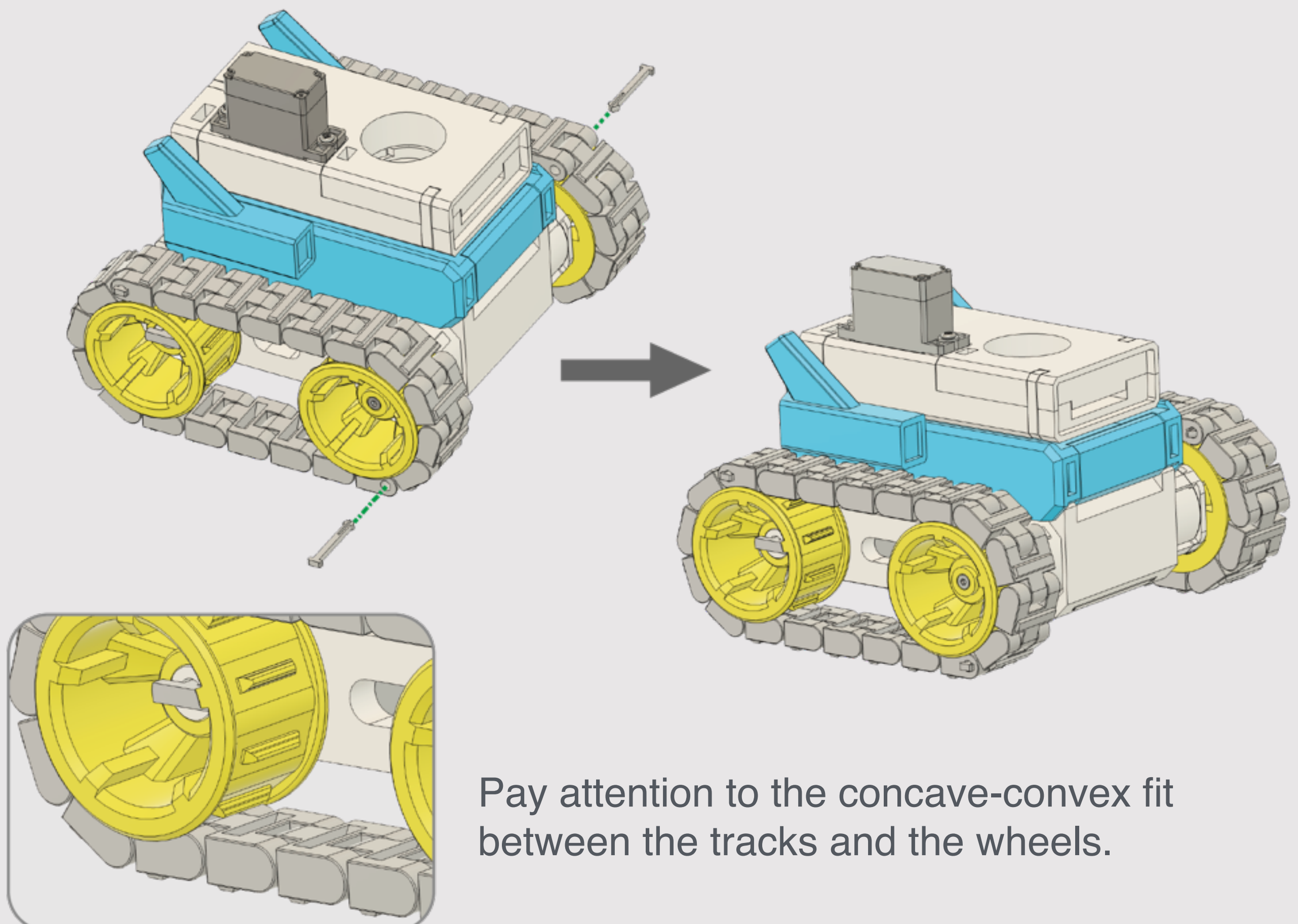
Connect the tracks and assemble the pins; note that the protrusions on the tracks should face upward.



# 3

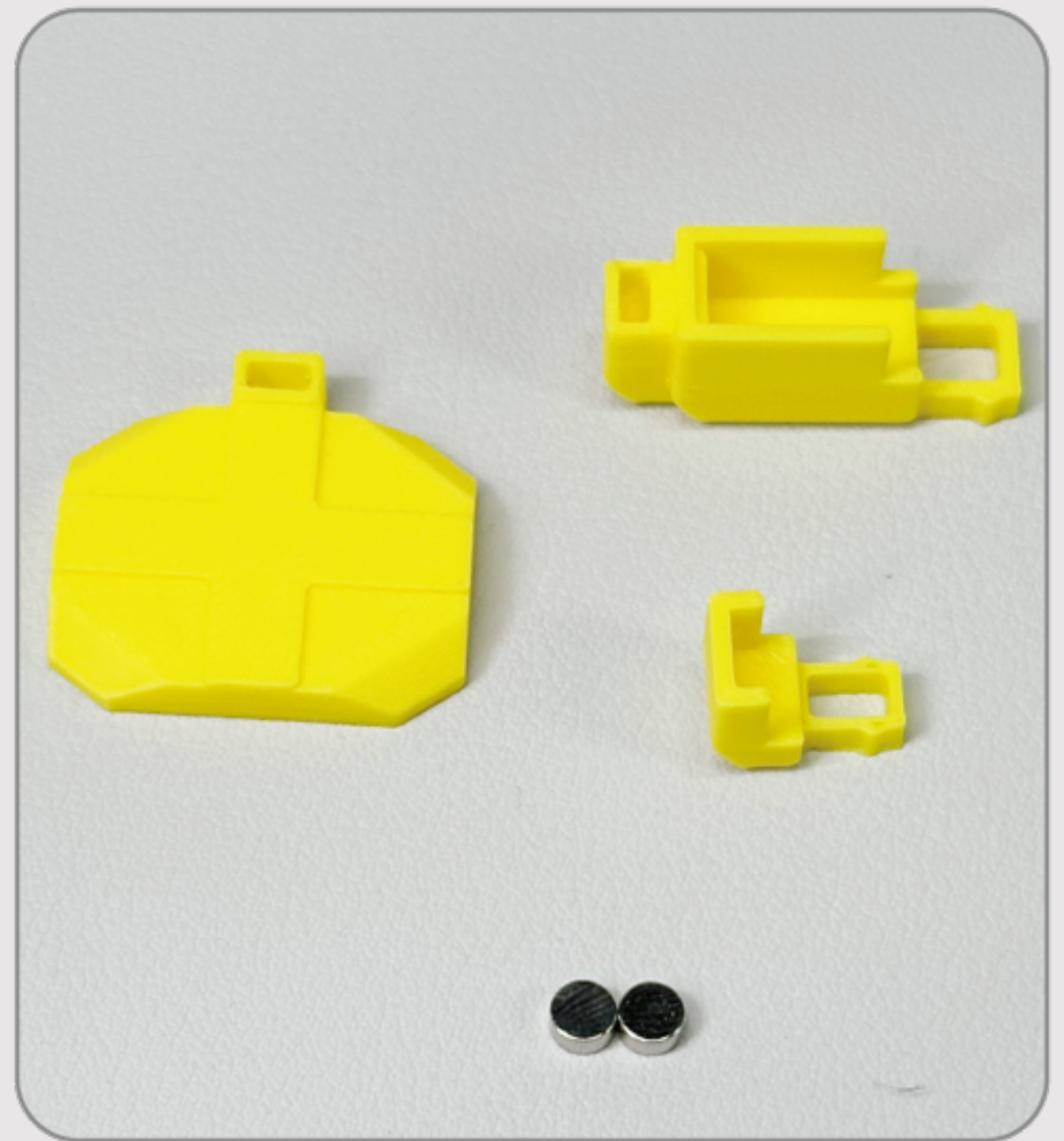
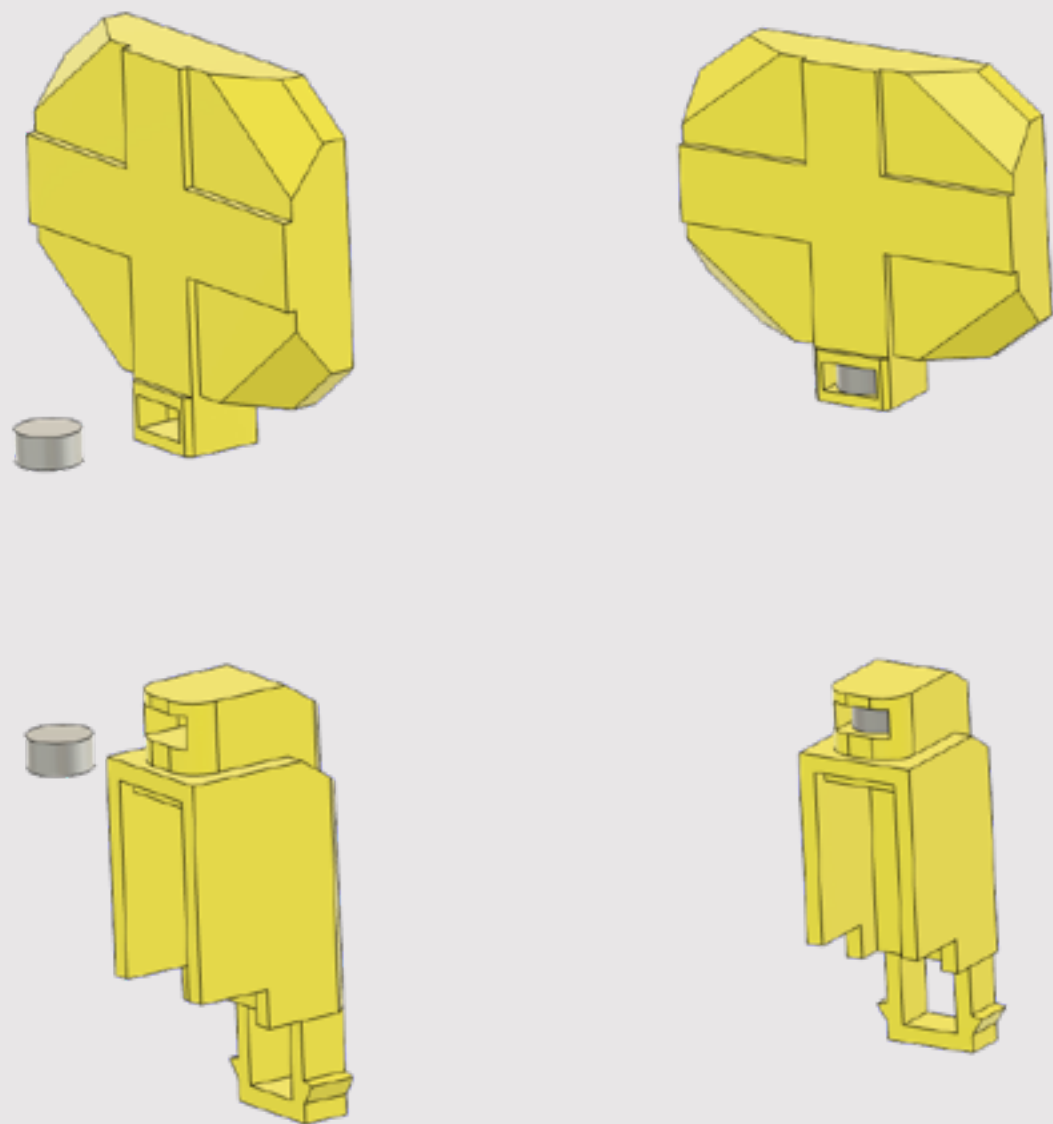


# 4



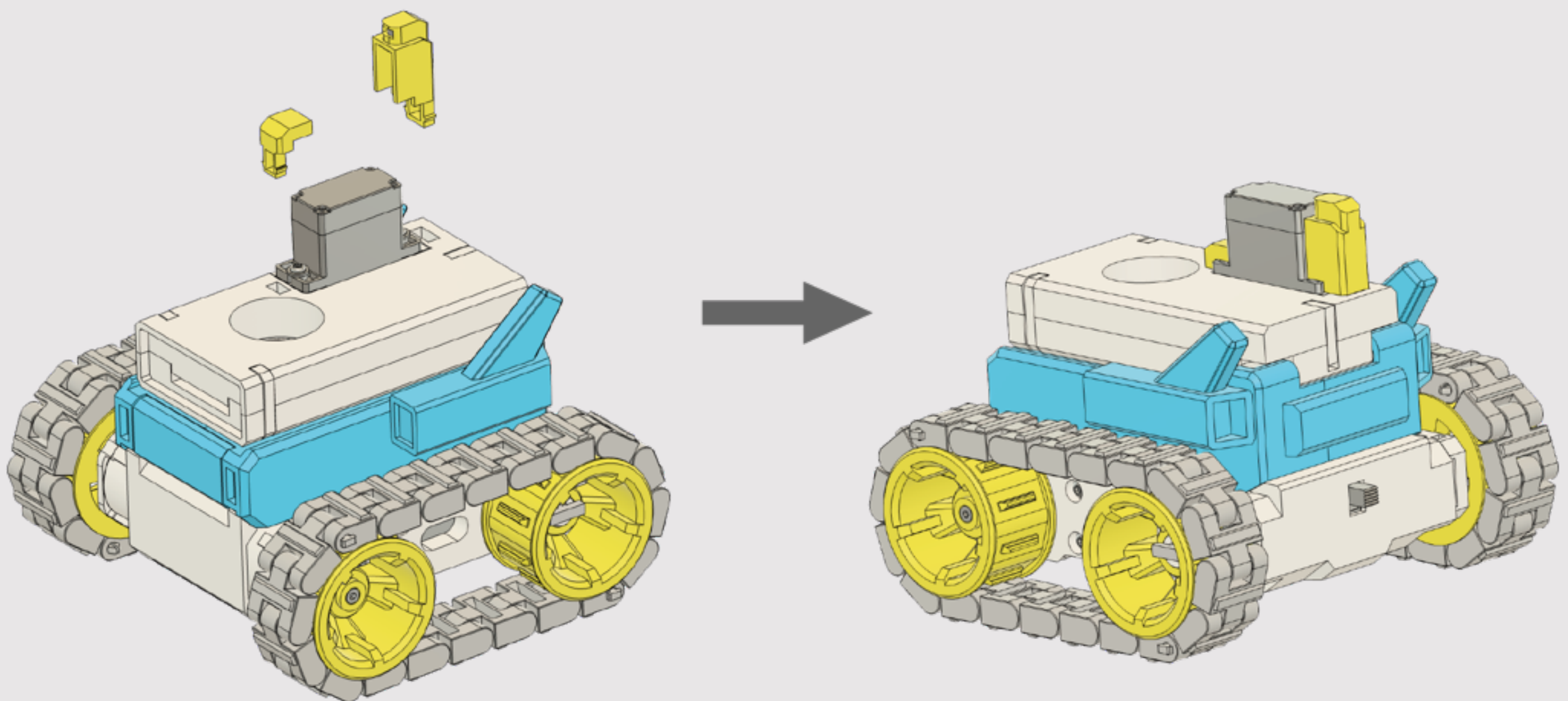


5



Pay attention to the magnetic poles of the two magnets; they need to be able to attract each other.

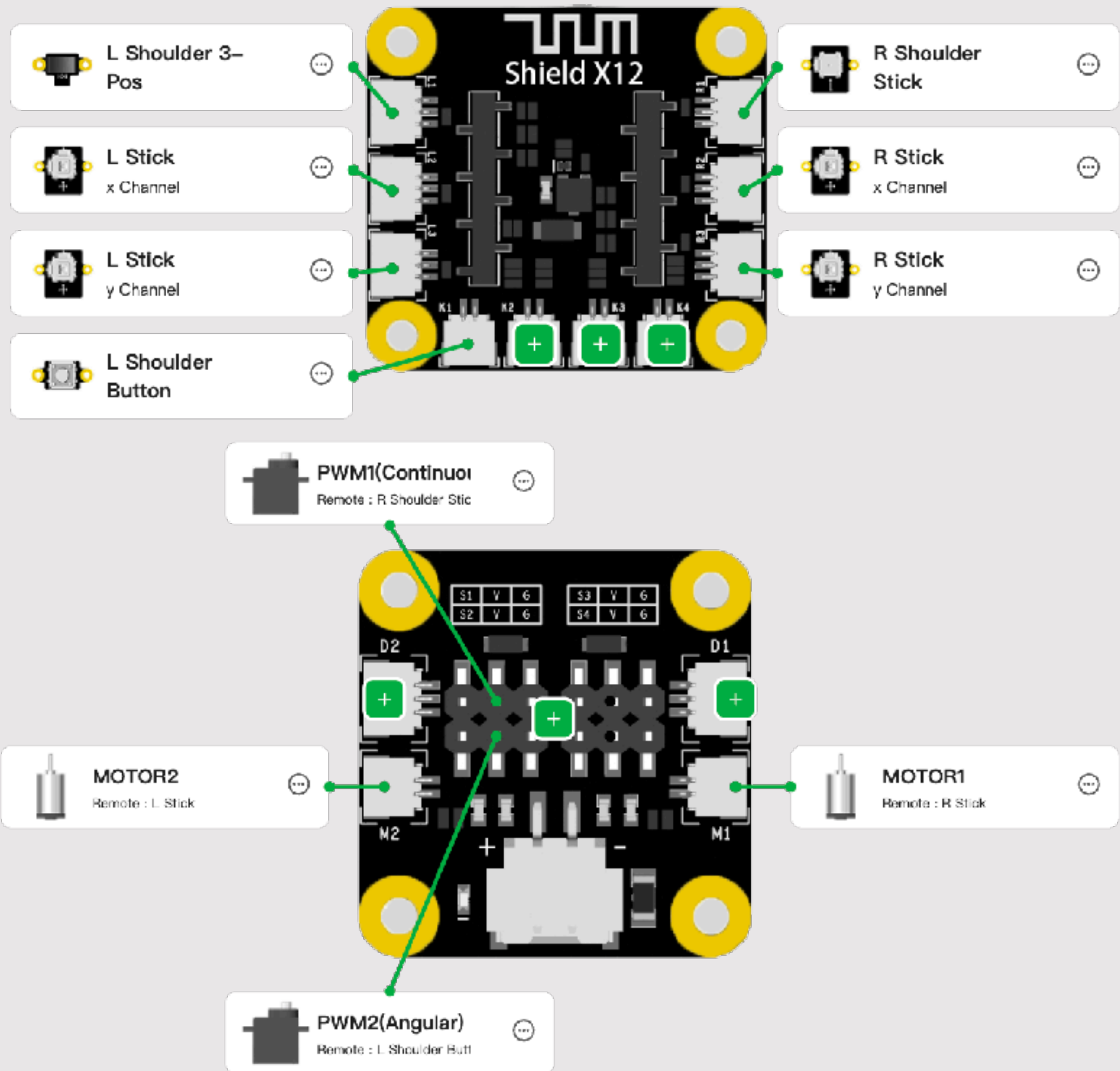
6



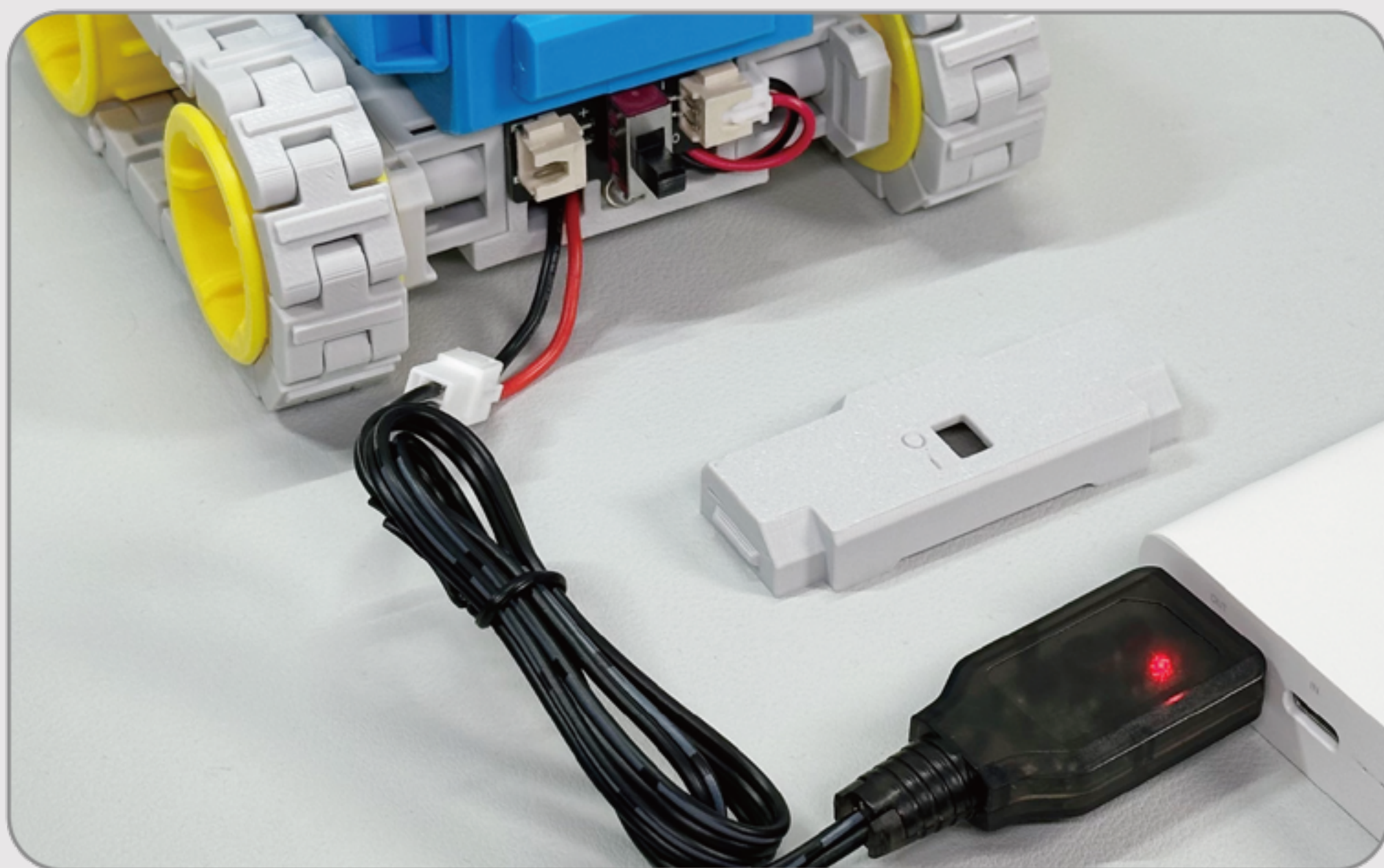
**The wheel and track assembly is completed.**



# Connection



# Charging

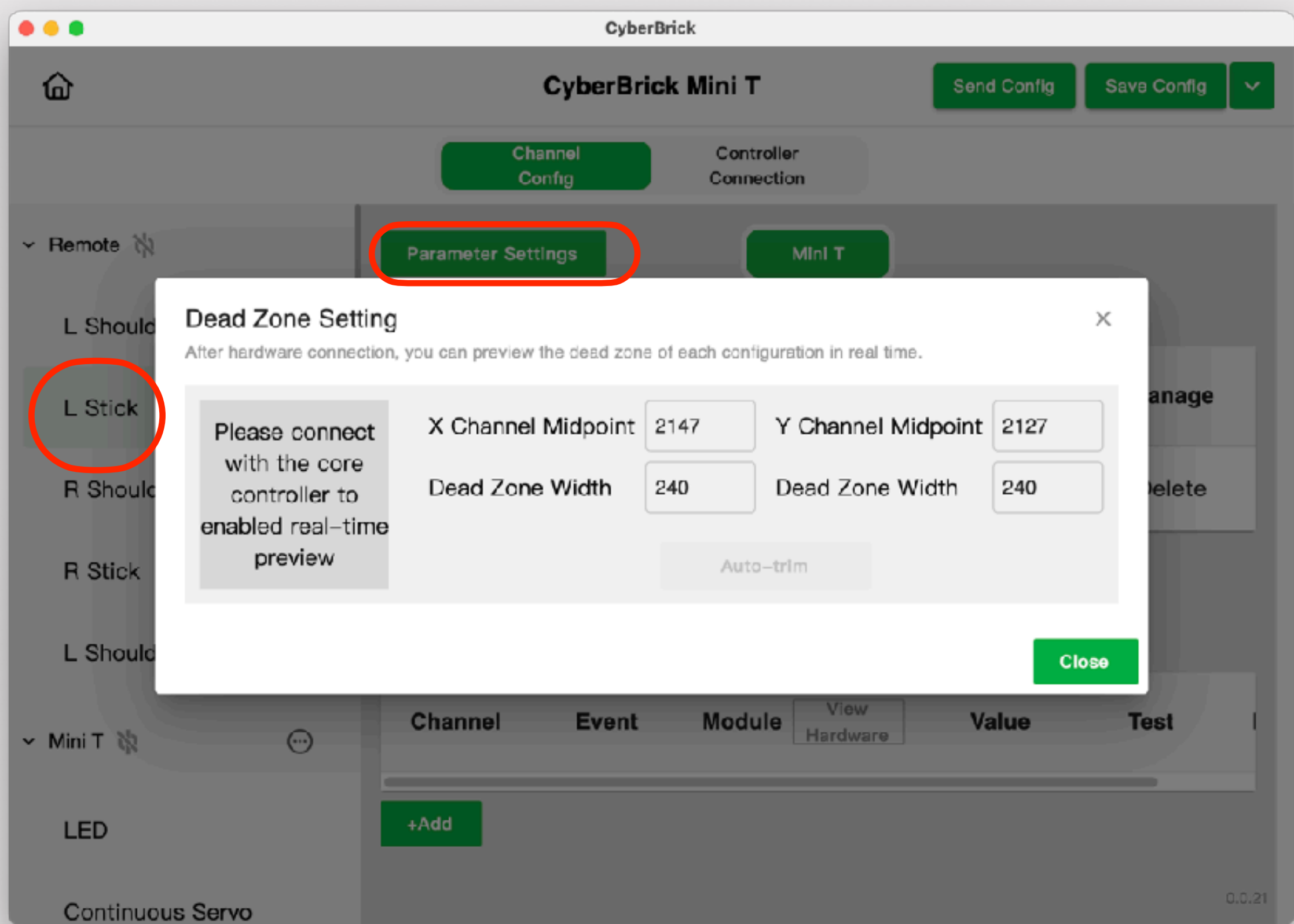


Remove the back cover to charge the battery.  
For better heat dissipation, it is recommended to open the bottom cover and take out the battery during charging.

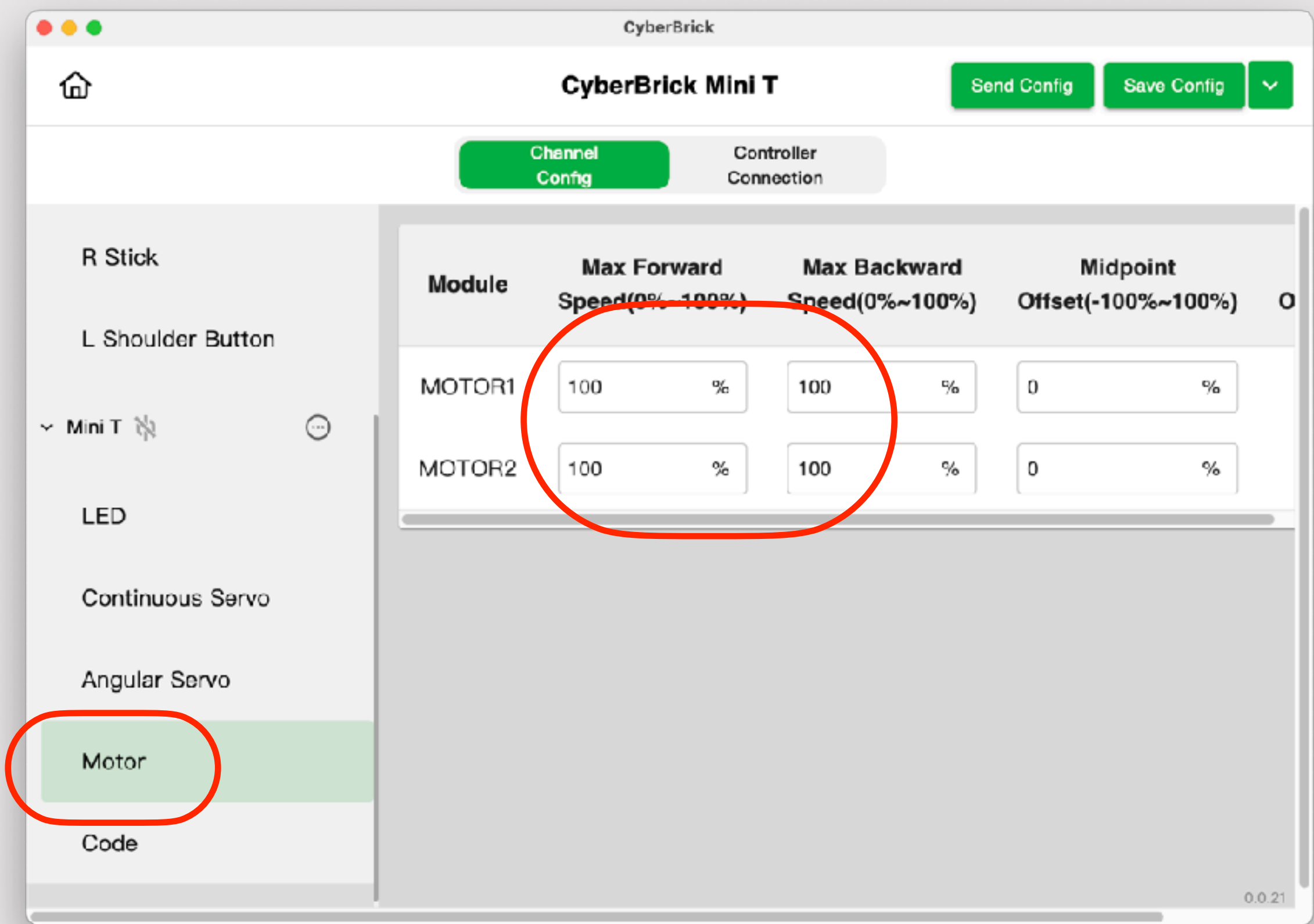
Please use the charger provided in the kit for charging. Before charging, read the kit's user manual and relevant safety precautions in detail. For specific information, please refer to the official CyberBrick website and the kit's user manual.



# Adjusting



If the mini tank moves on its own when not in operation, try increasing the dead zone value and Auto-trim.



If the mini tank does not move straight when advancing at full speed, check whether the tracks are running smoothly and adjust the max motor speed.

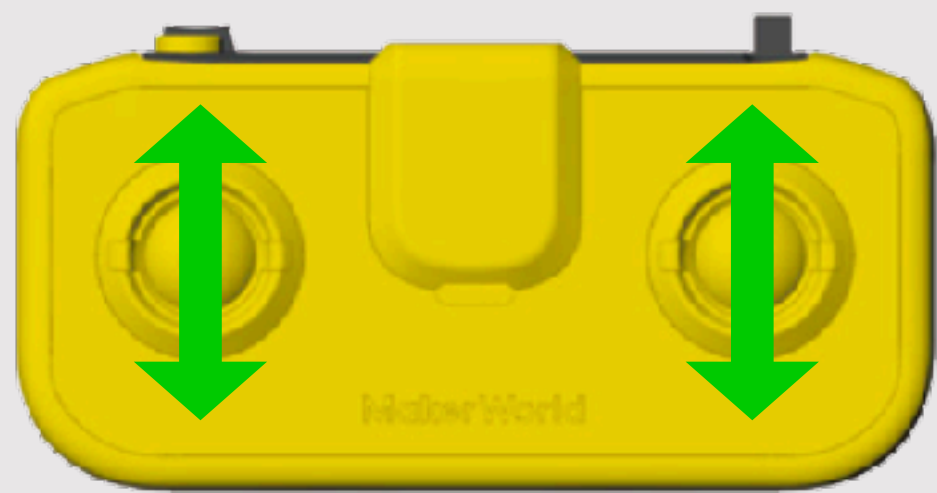


# Operation Method 1

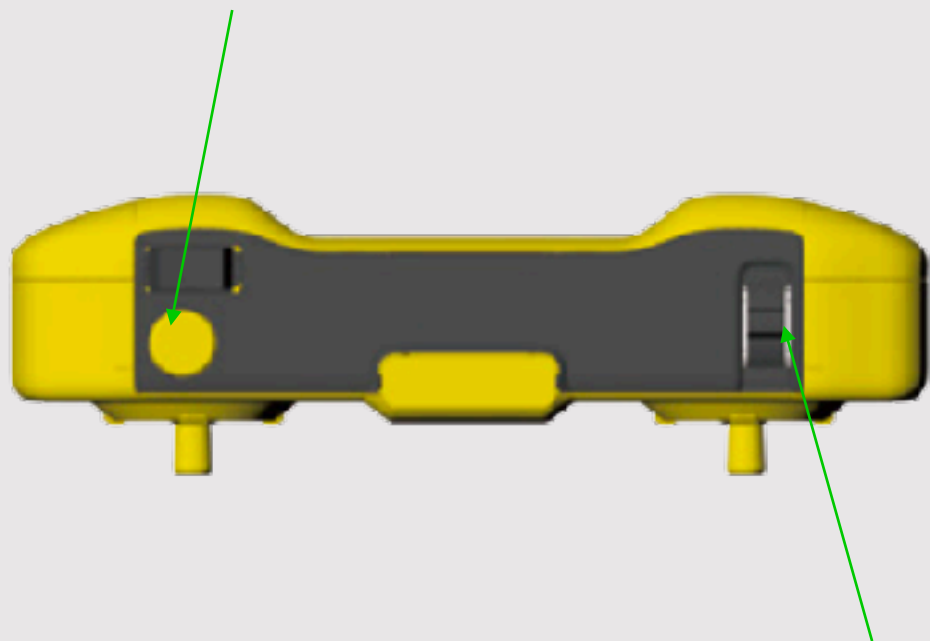


CyberBrick Mini T.json

Remote Control Operation Method 1




Control the rotation of the wheels on both sides separately.



Press and hold the left shoulder button to launch the disc; release the button, and the servo will reset.

Push the right shoulder stick to adjust the angle of the launcher.

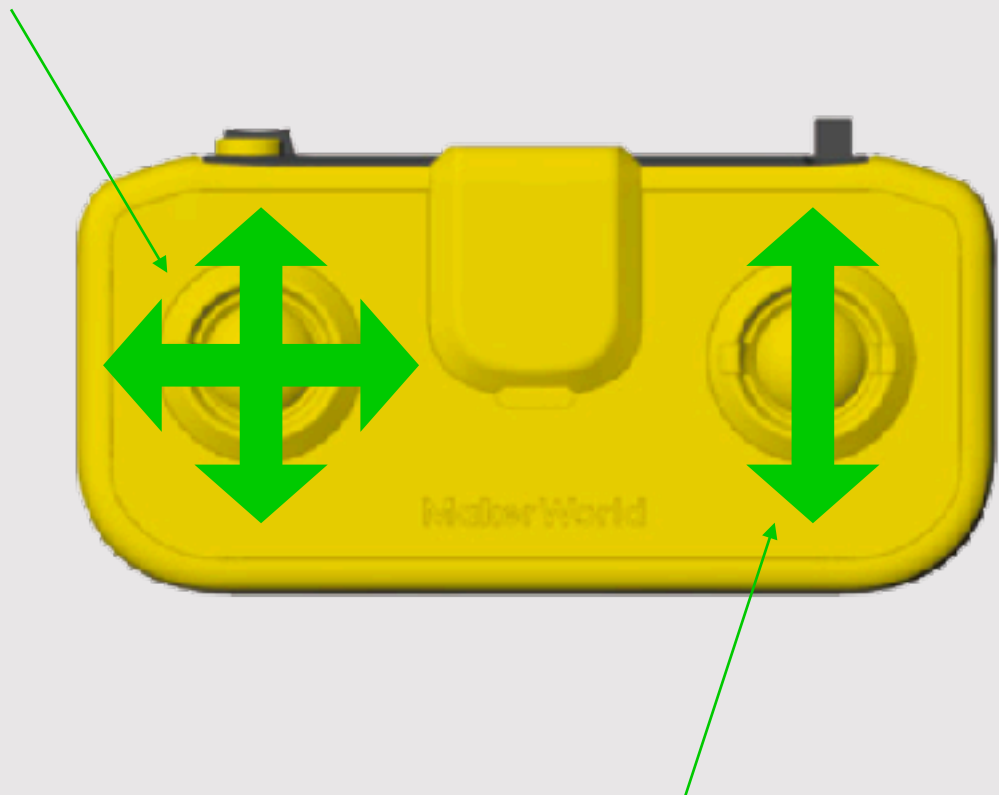
# Operation Method 2



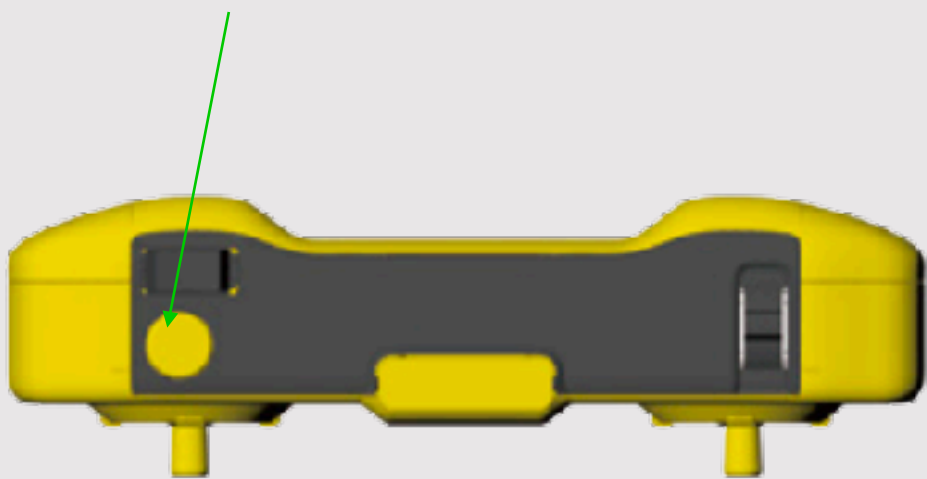
CyberBrick Mini T- Mode 2.json

Remote Control Operation Method 2

Forward/backward control: Move the tank forward or backward.  
Left/right control: Steer the tank to the left or right.



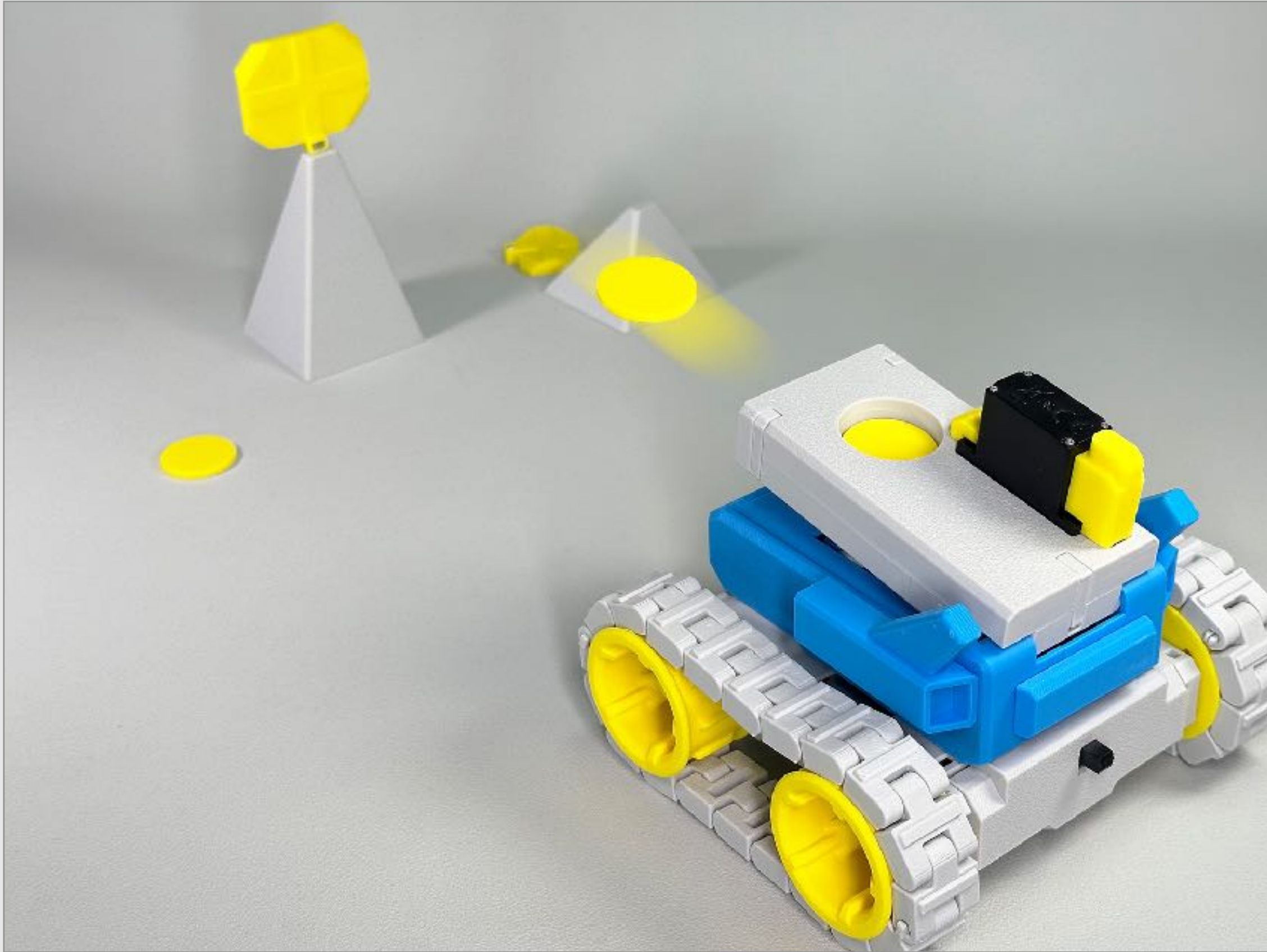
Adjust the angle of the launcher.



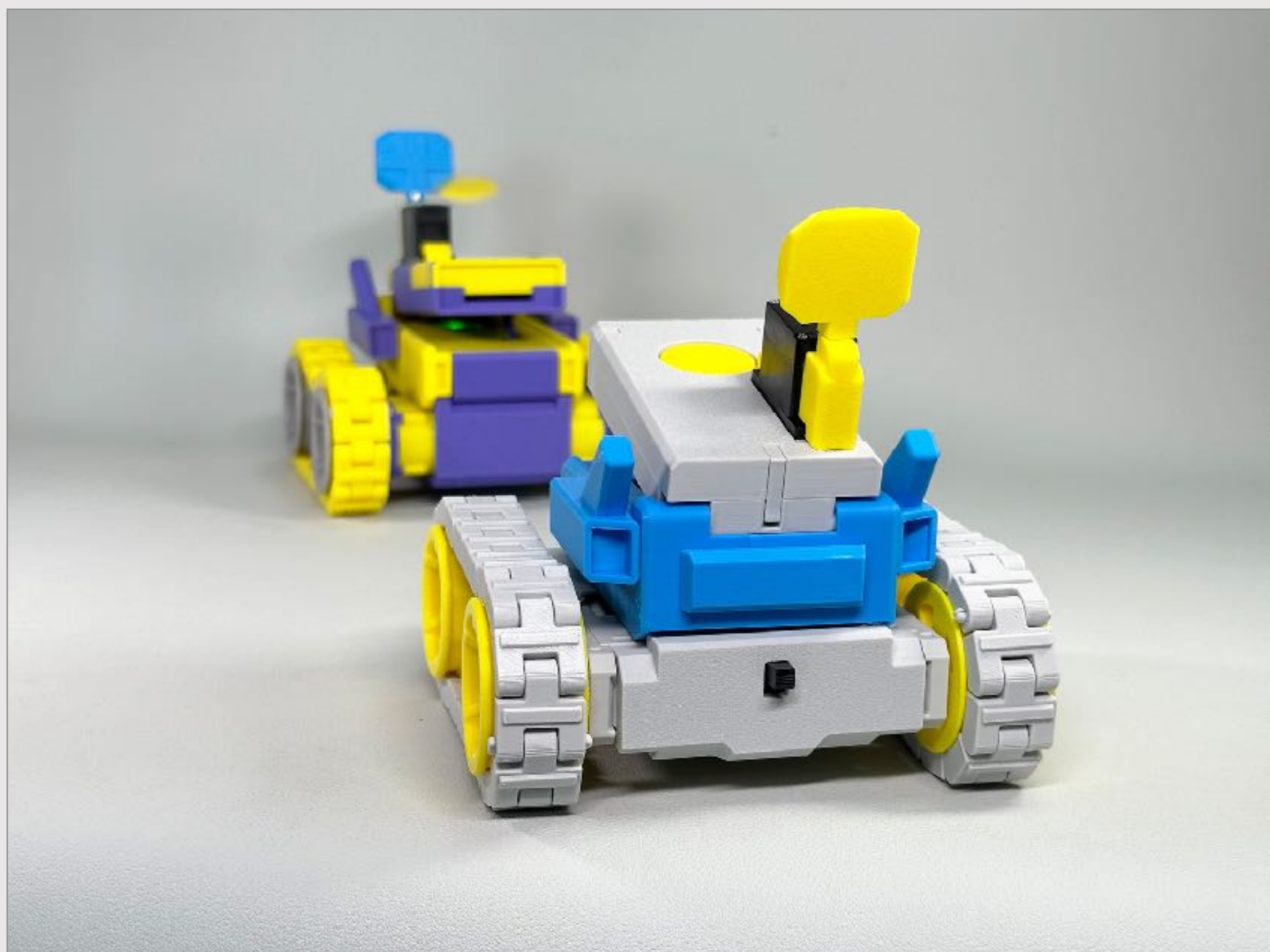
Press and hold the left shoulder button to launch the disc; release the button, and the servo will reset.



# 1 Target Shooting



# 2 Versus Battle





### 3 Personalized Game

