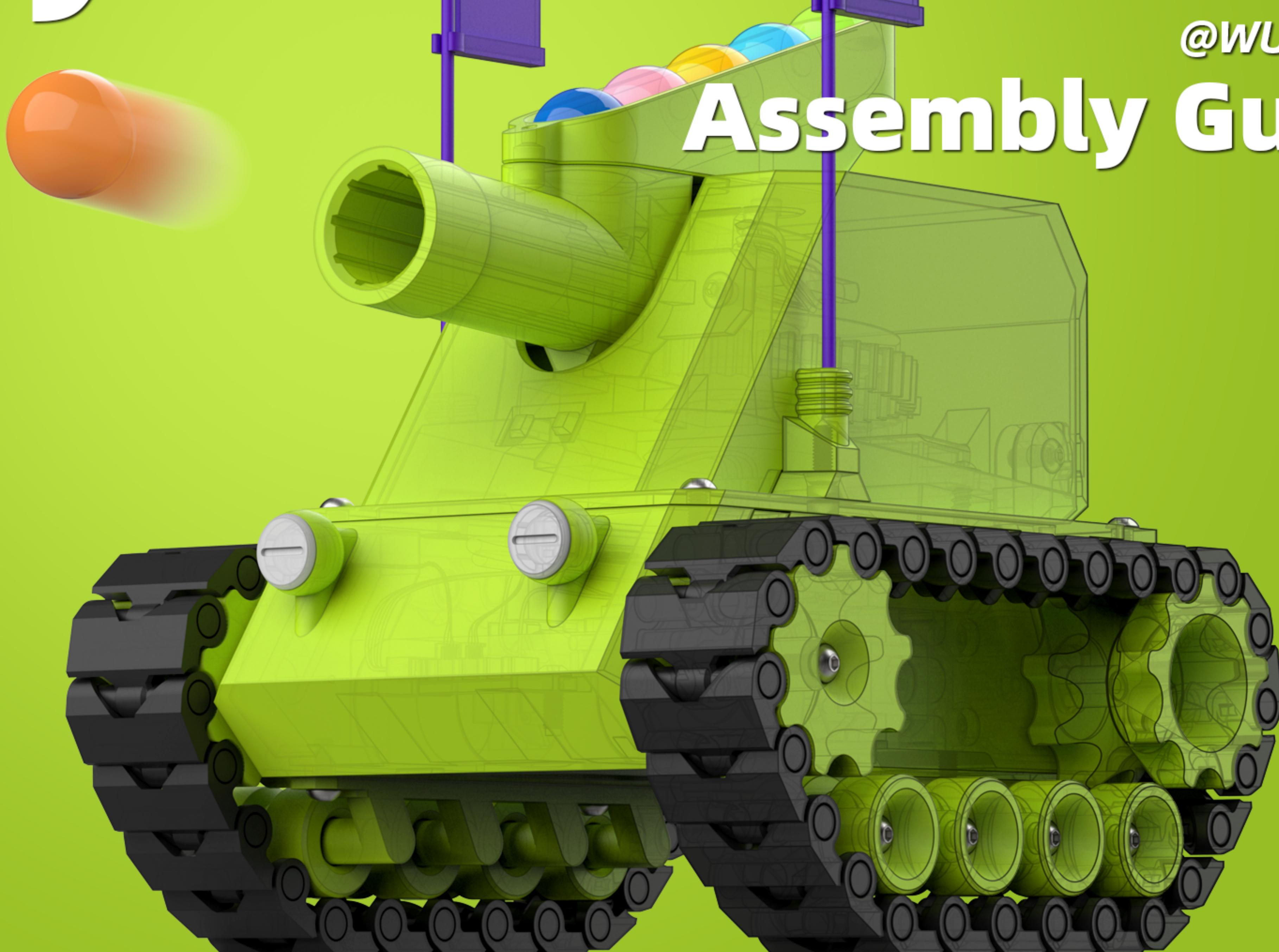


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Assembly Guide



Prepartion

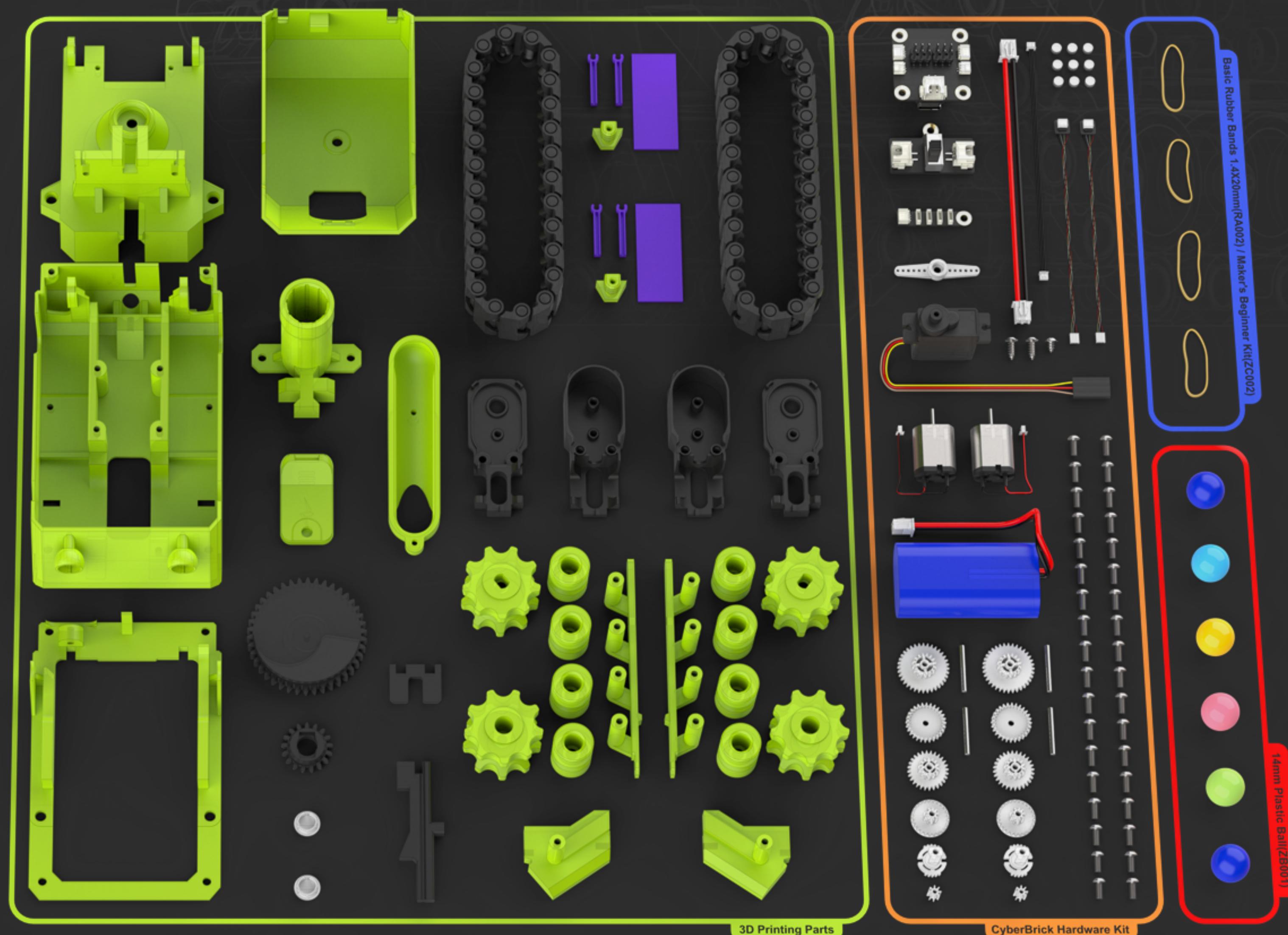
Maker's Supply Parts Needed:

CyberBrick Hardware Kit (ZK003/ZK004)

Plastic ball (ZB001)

Basic Rubber Bands 1.4x20mm (RA002) / Maker's Beginner Kit (ZC002)

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There are 36 M2.5 screws in this model, recommend using an electric screwdriver to do the job.

10

Step Number

4x2mm Round Magnet x1

Maker's Supply Parts using in this step

10-2

Step Sequence

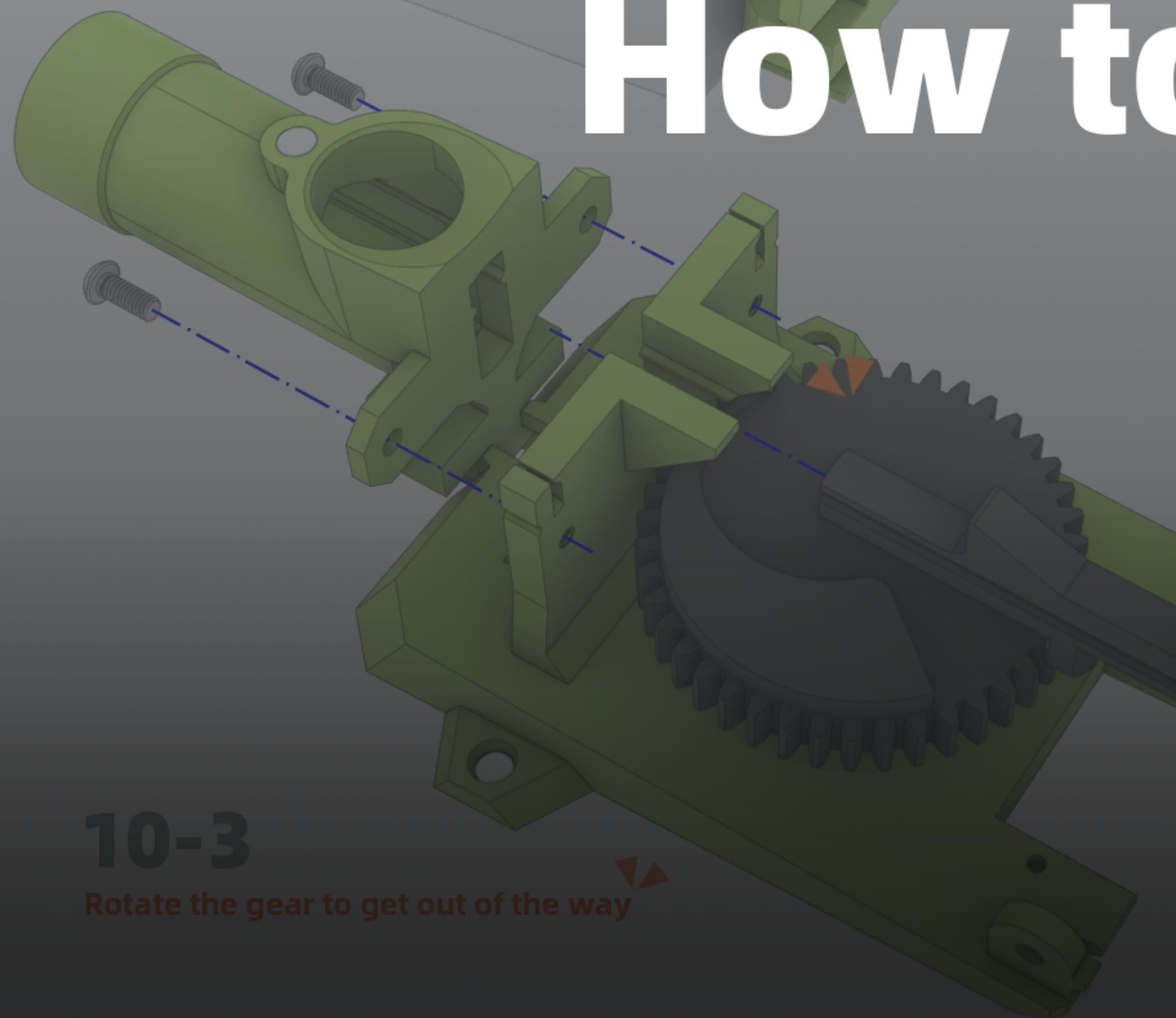
Assemble the magnet in the same way as "6-1"

Step Introduction

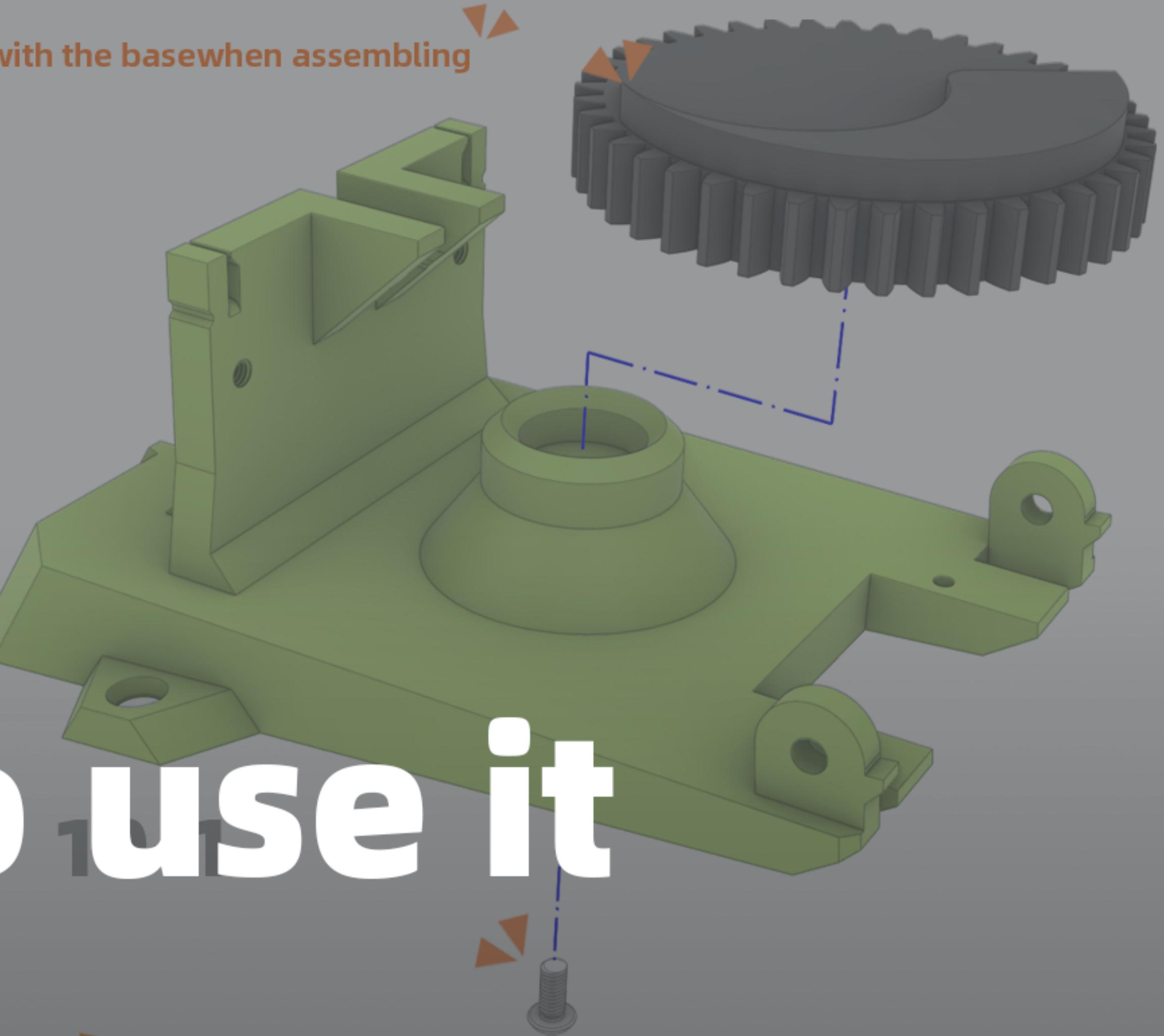
Attention Mark

Put something under the barrel to hold it

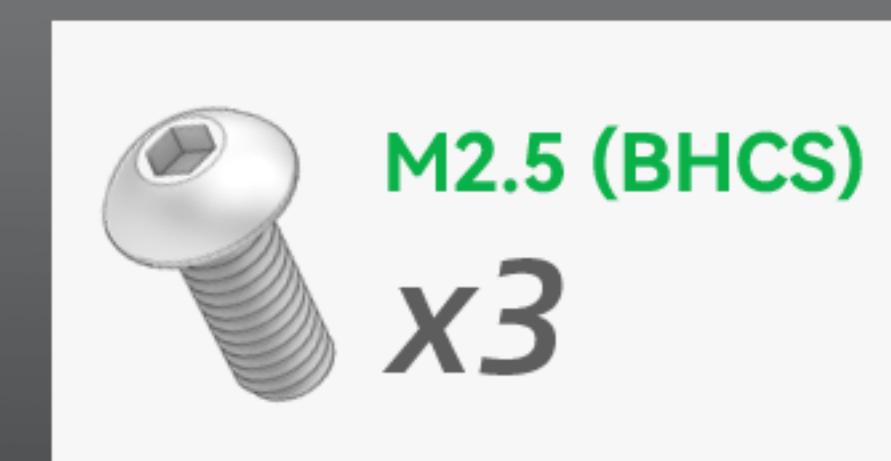
Attention Note



How to use it



Do not screw too tight, make sure the gear can rotate smoothly



Screws using in this step

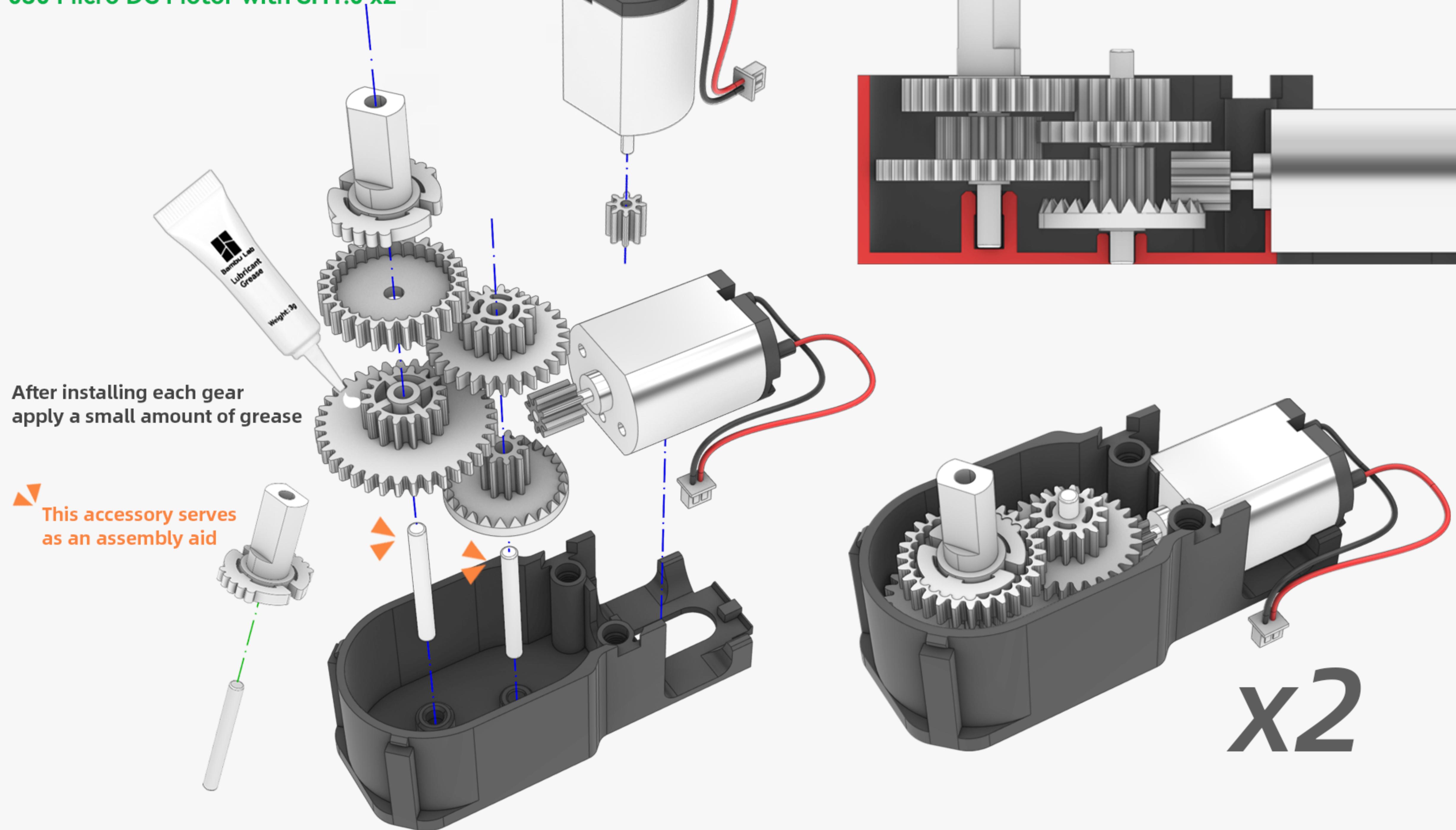
10-3

Rotate the gear to get out of the way

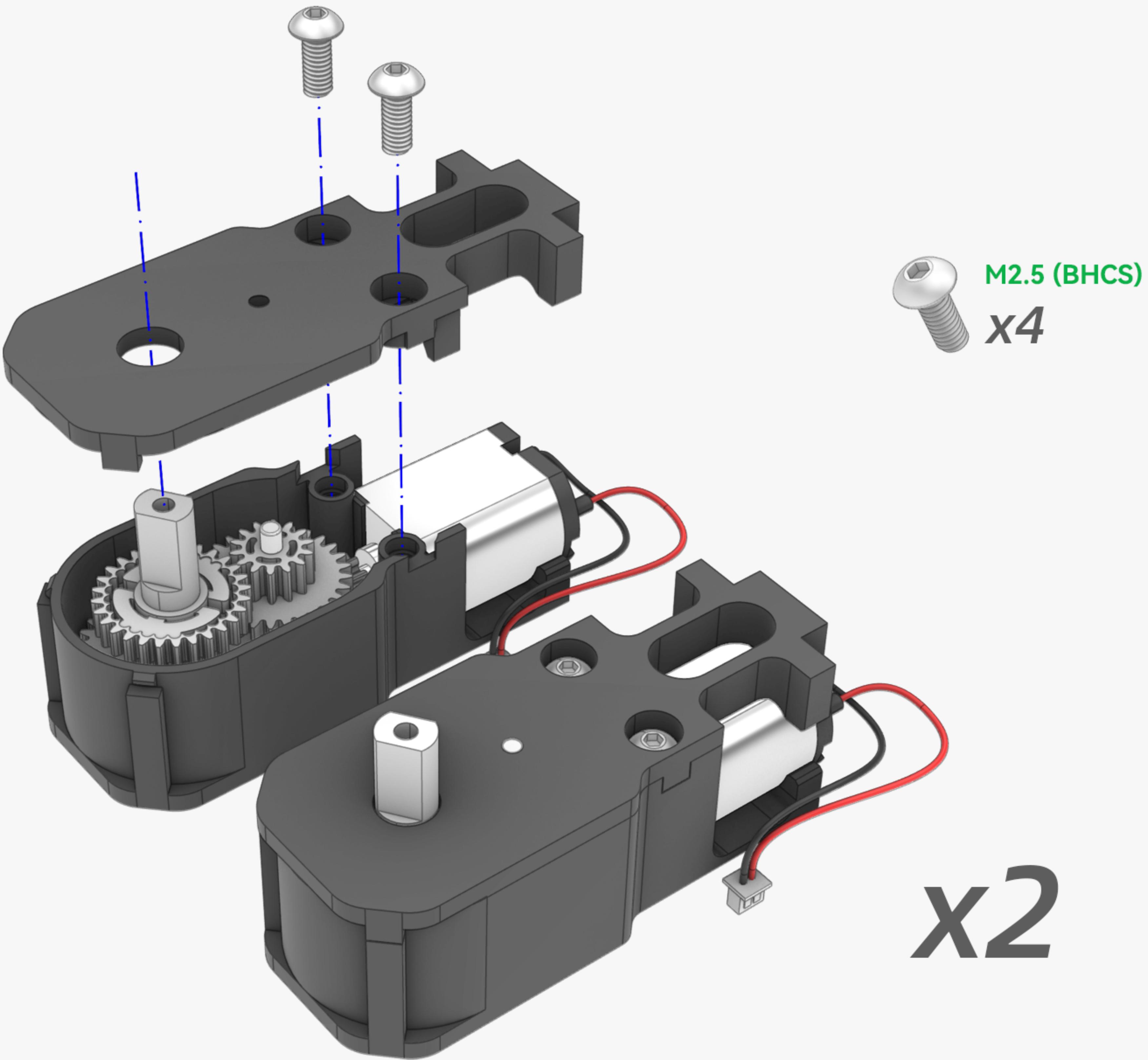
01

1:48 Single-axis Plastic Reduction Gear Kit x2

030 Micro DC Motor with SH1.0 x2



02



03

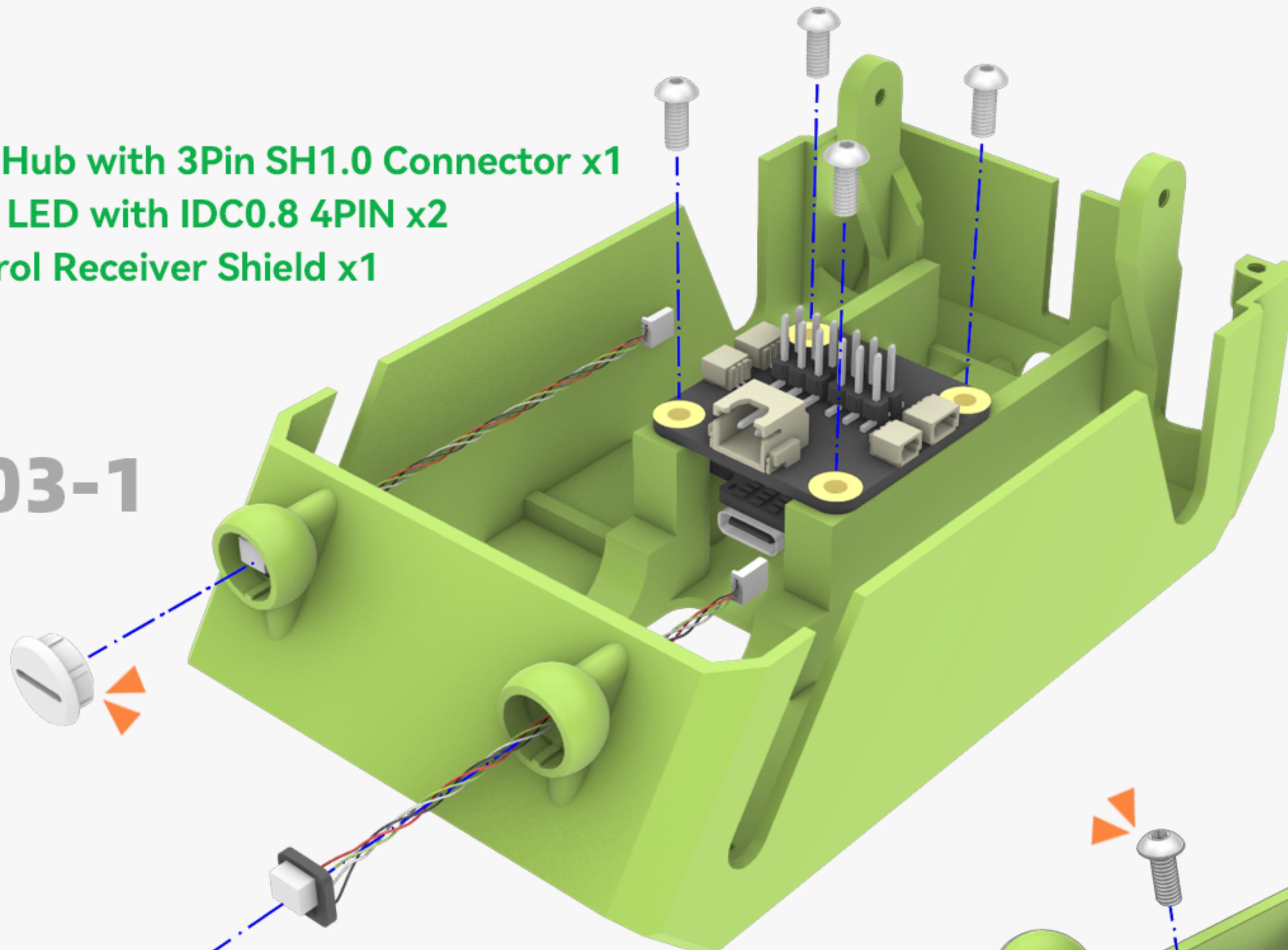
WS2812 LED Hub with 3Pin SH1.0 Connector x1

WS2812 RGB LED with IDC0.8 4PIN x2

Remote Control Receiver Shield x1

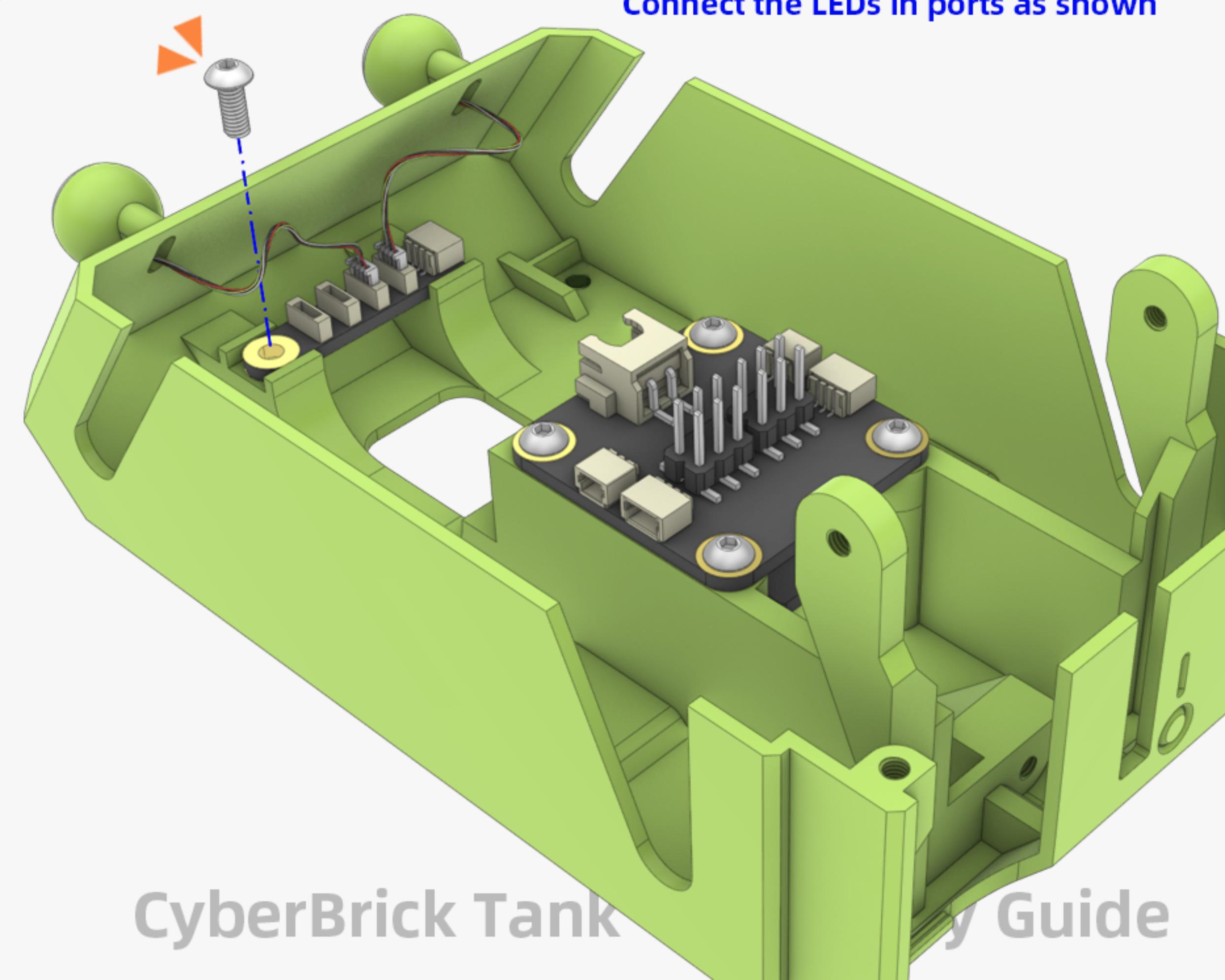
M2.5 (BHCS)
x5

03-1



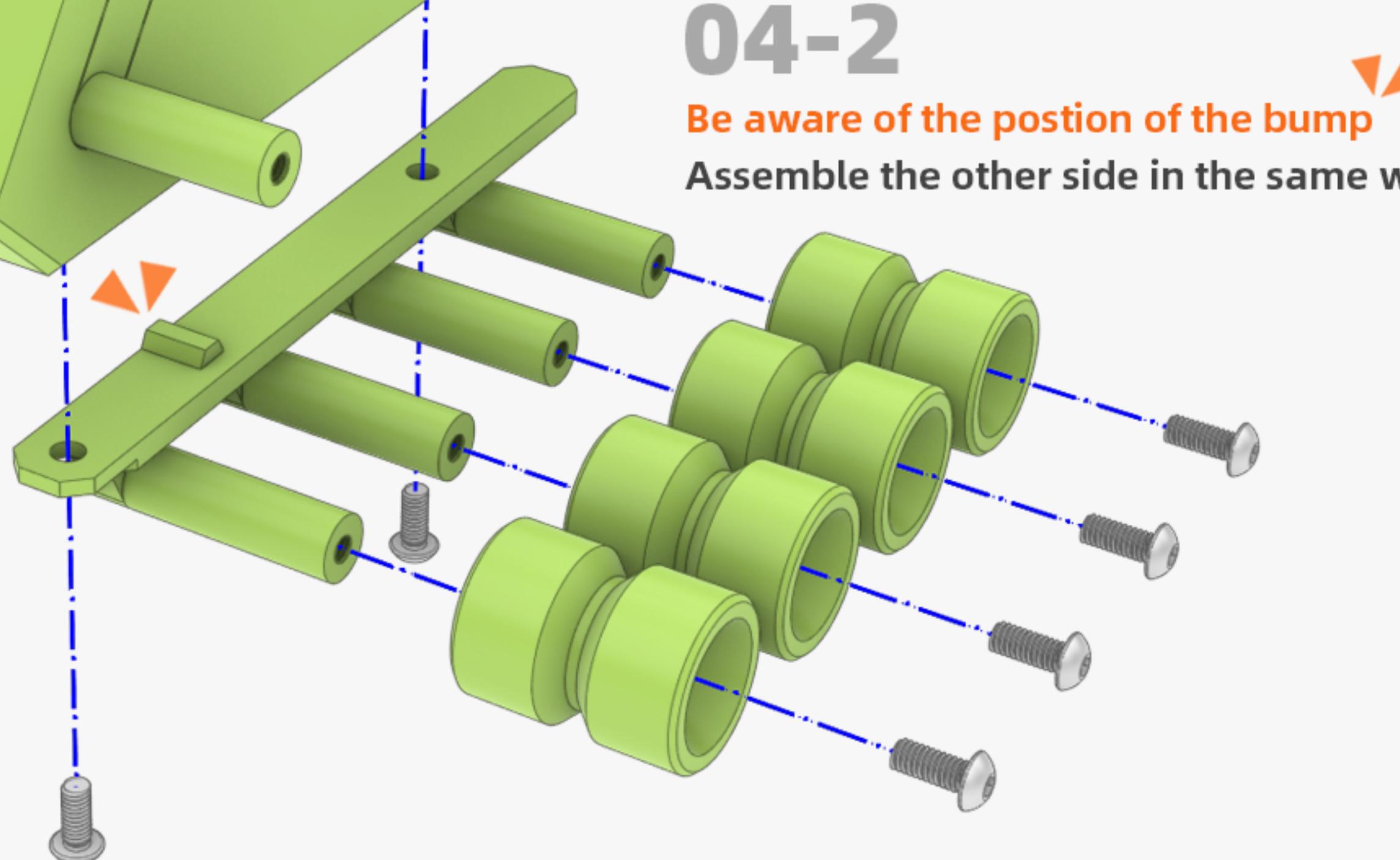
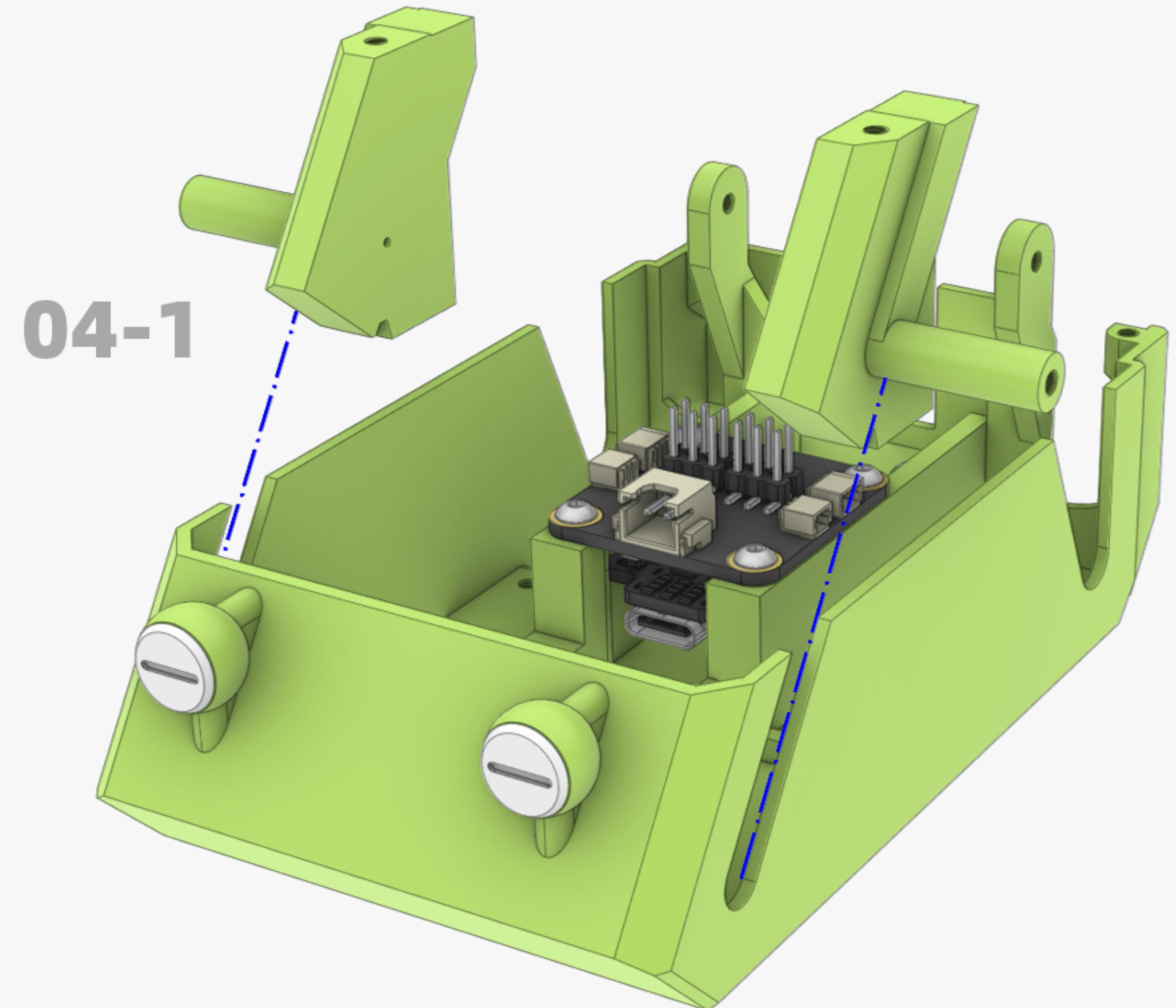
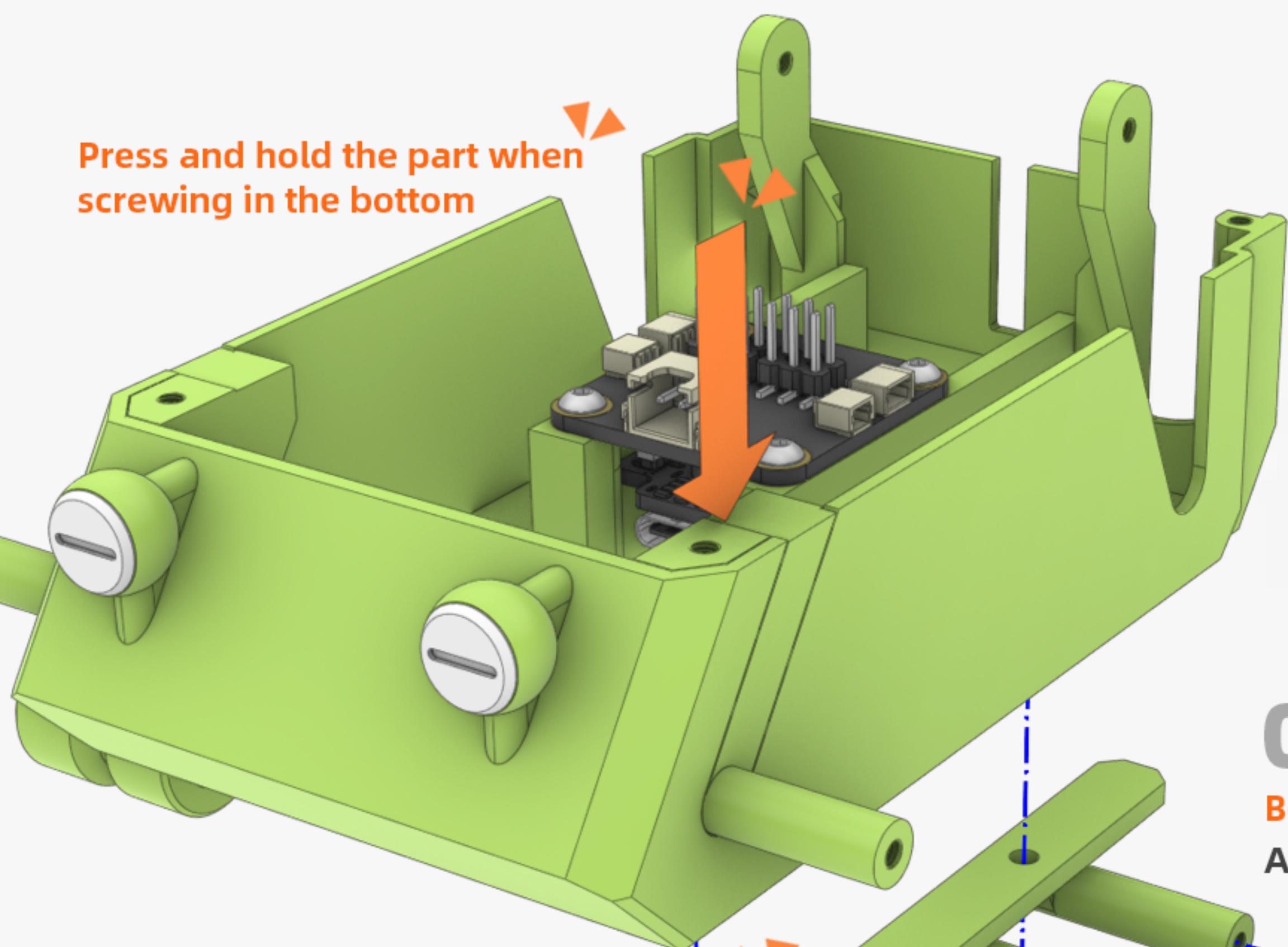
03-2

Connect cables first before screw
Connect the LEDs in ports as shown



Be aware of the gap of the LED Cap

04



M2.5 (BHCS)
x12

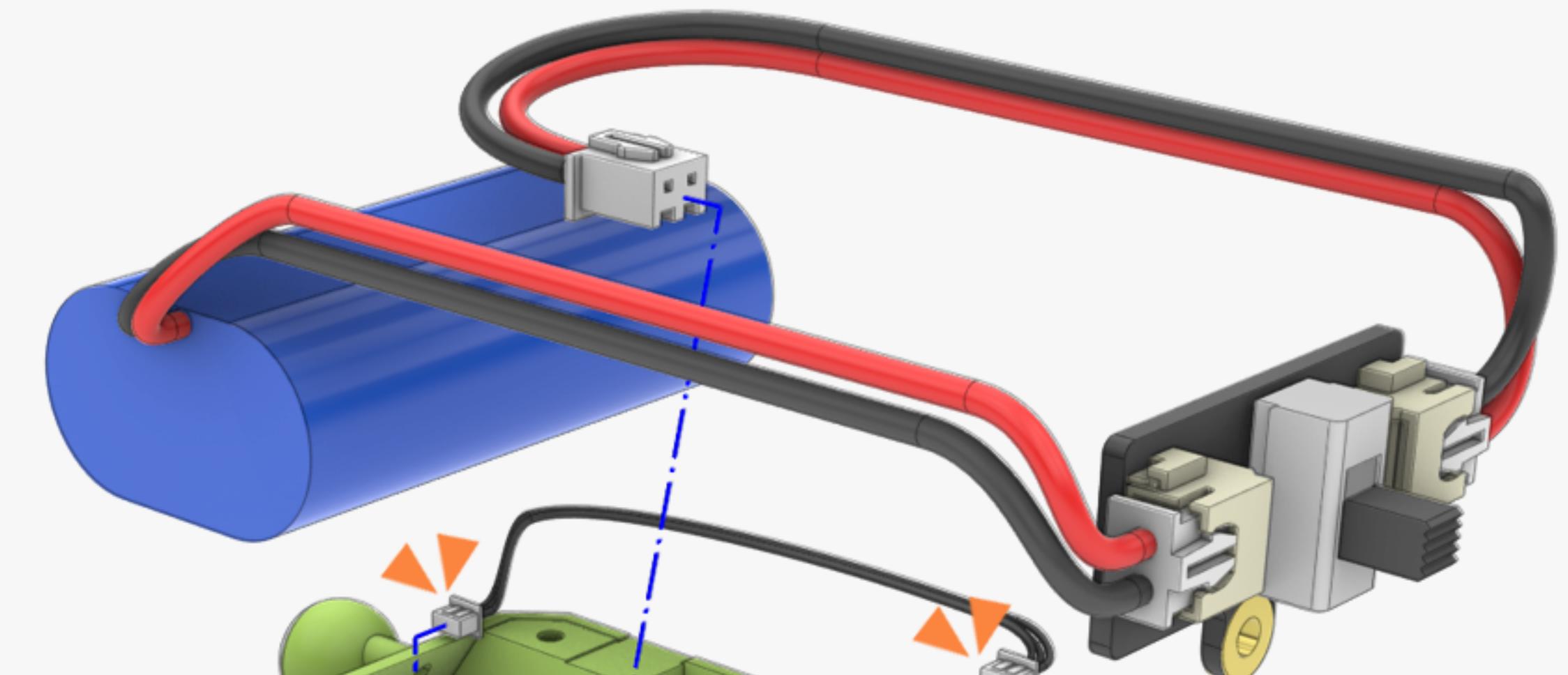
05

Power Switch Module with 2Pin XH2.54 Connector x1

100mm Wire with 2Pin XH2.54 Connectors x1

100mm Wire with 3Pin SH1.0 Connectors x1

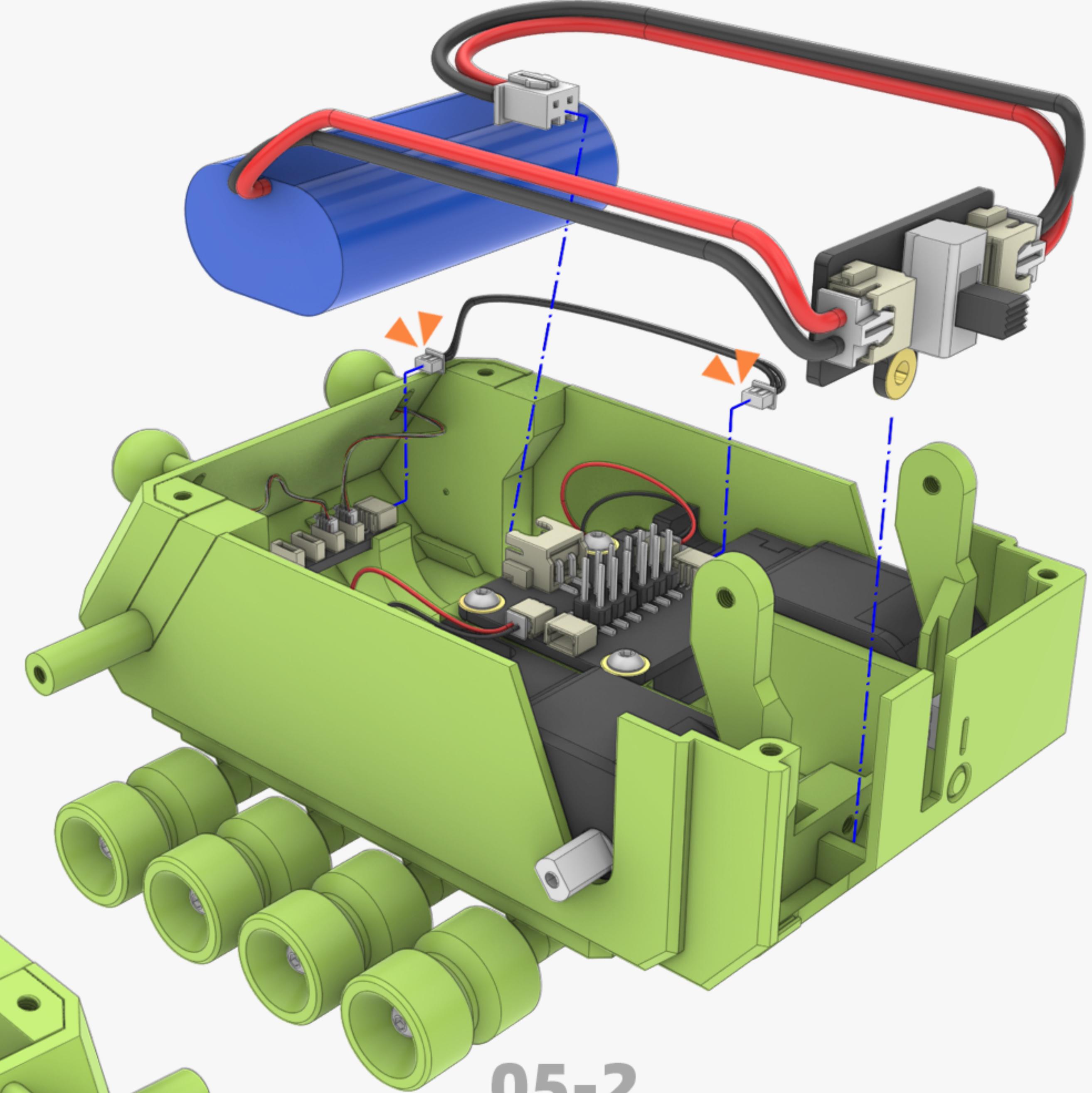
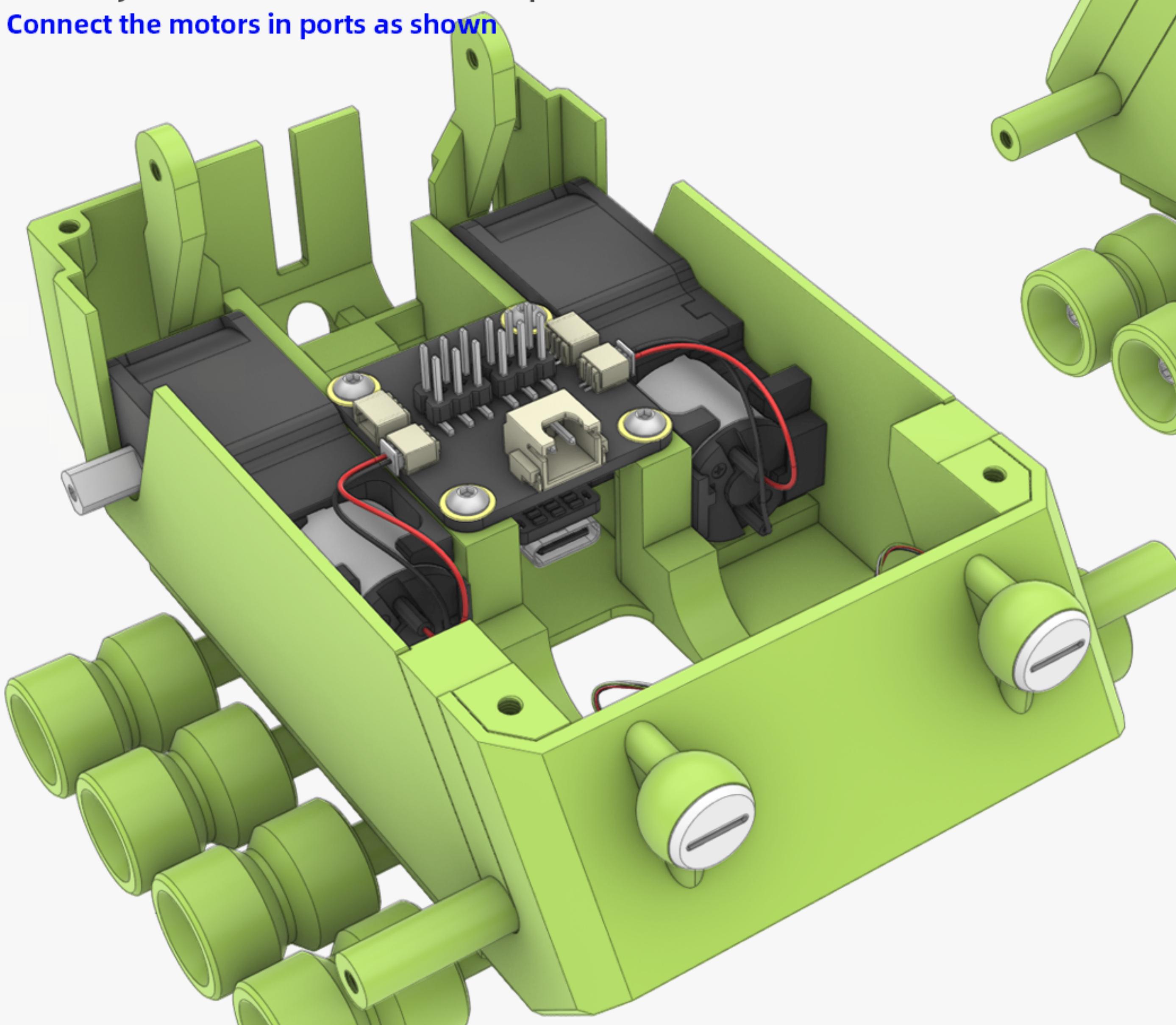
14500 7.4V 800mAh Li-ion Battery x1



05-1

Assembly the 2 Reduction Gearboxes in position

Connect the motors in ports as shown



05-2

Connect the cables in ports as shown

Don't forget to connect the cable

"100mm Wire with 3Pin SH1.0 Connectors"

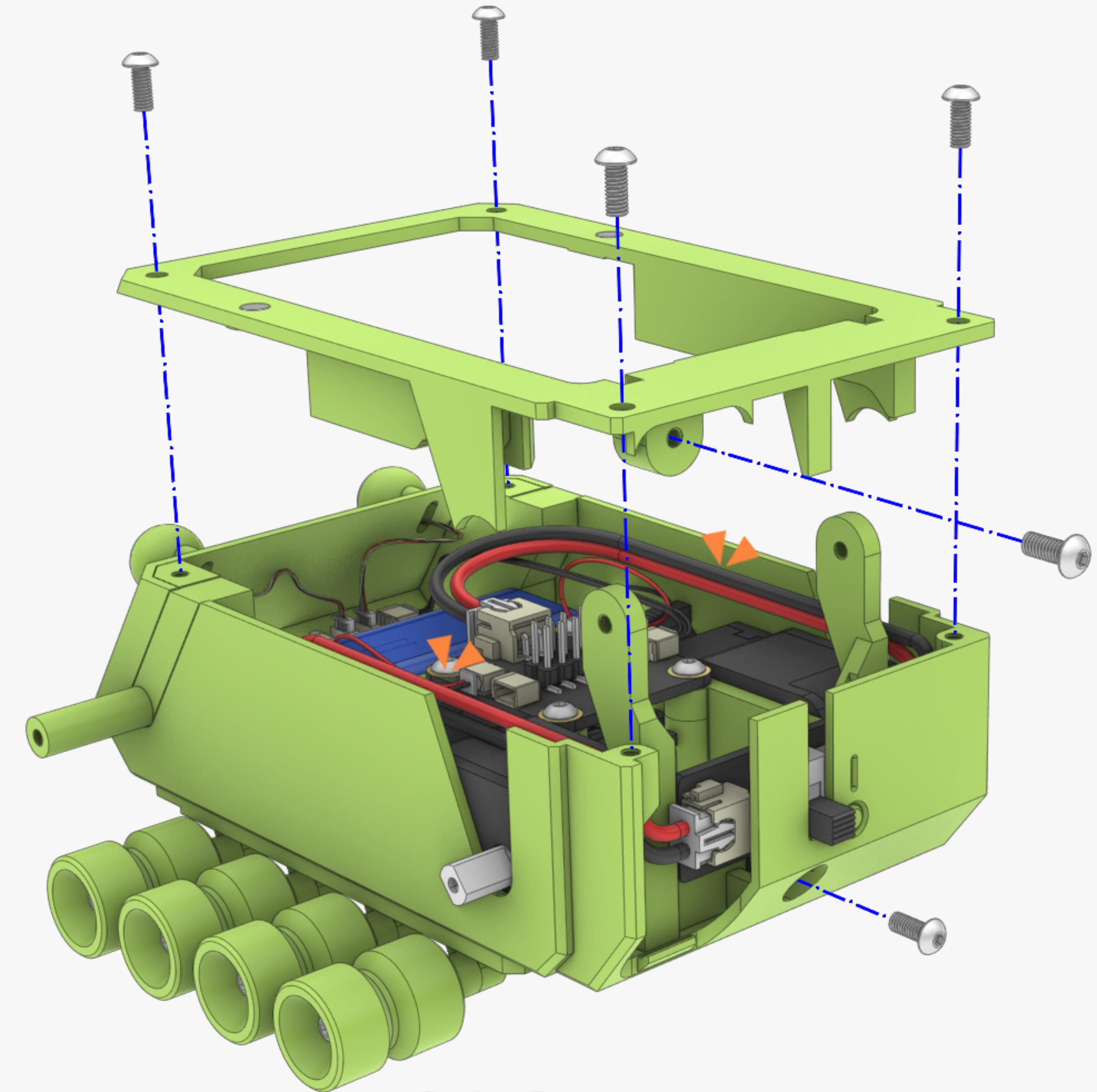
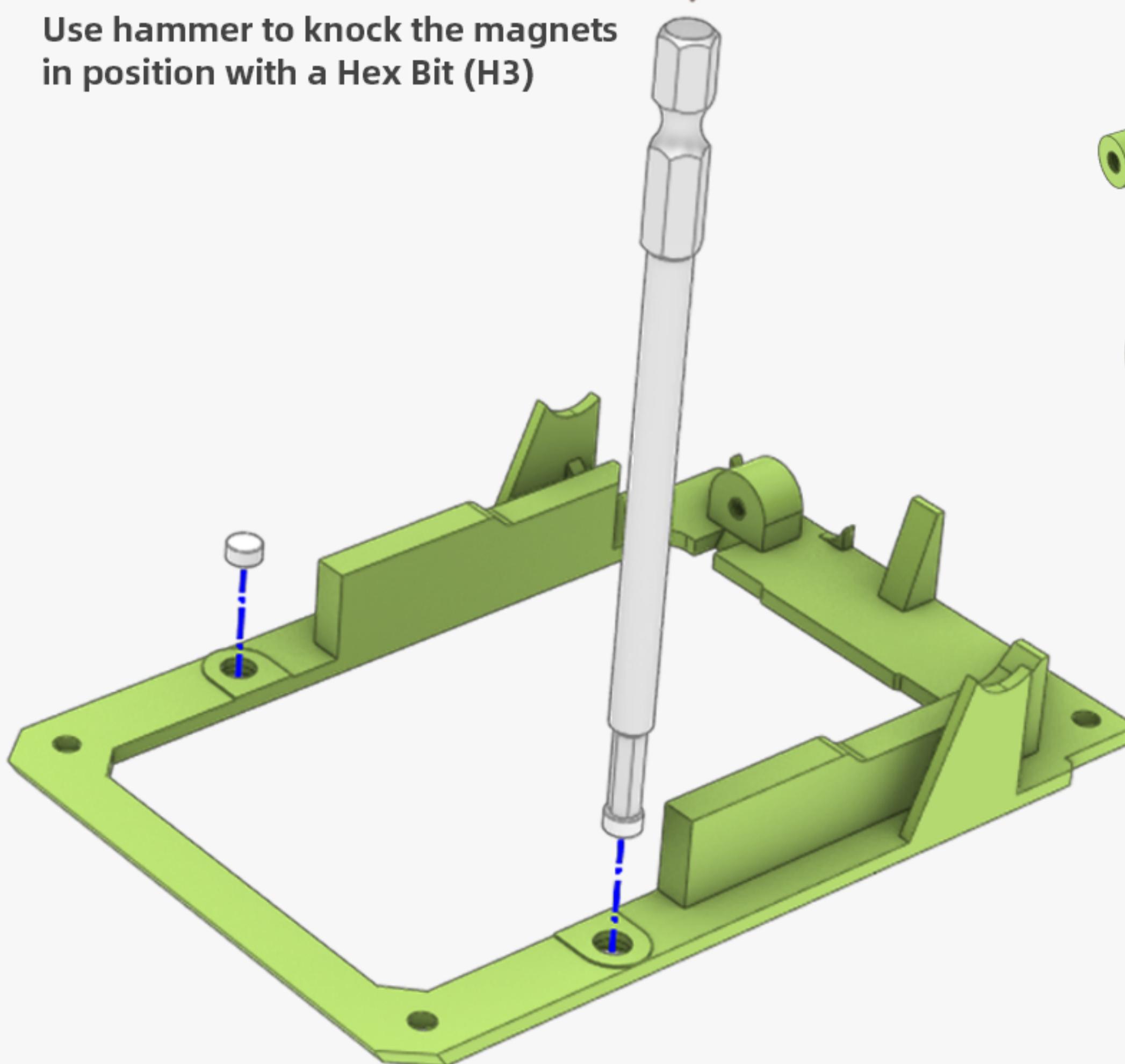


06

4x2mm Round Magnet x2

06-1

Use hammer to knock the magnets in position with a Hex Bit (H3)



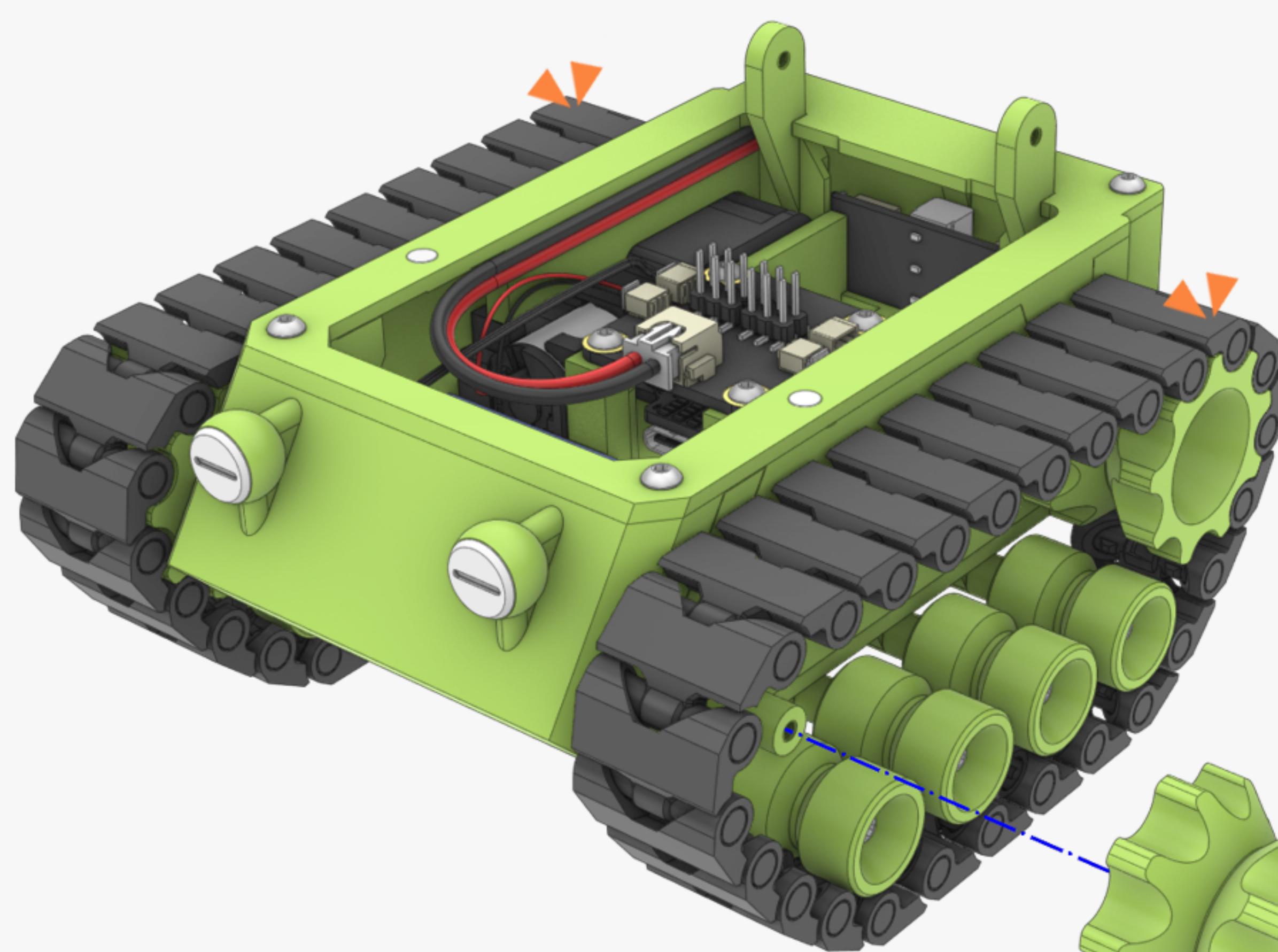
06-2

Be aware of avoiding pressing cables when inserting

M2.5 (BHCS)
x6

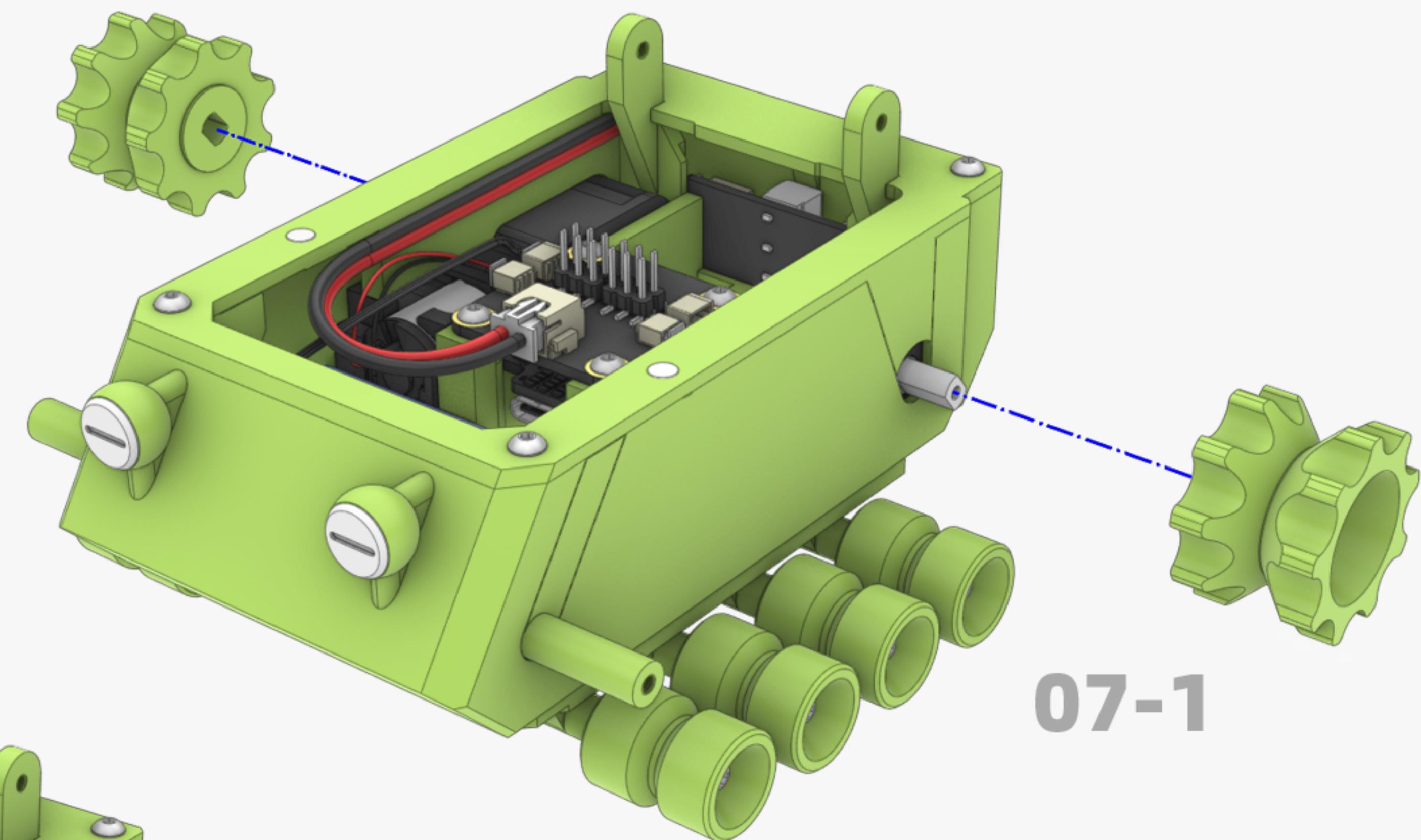
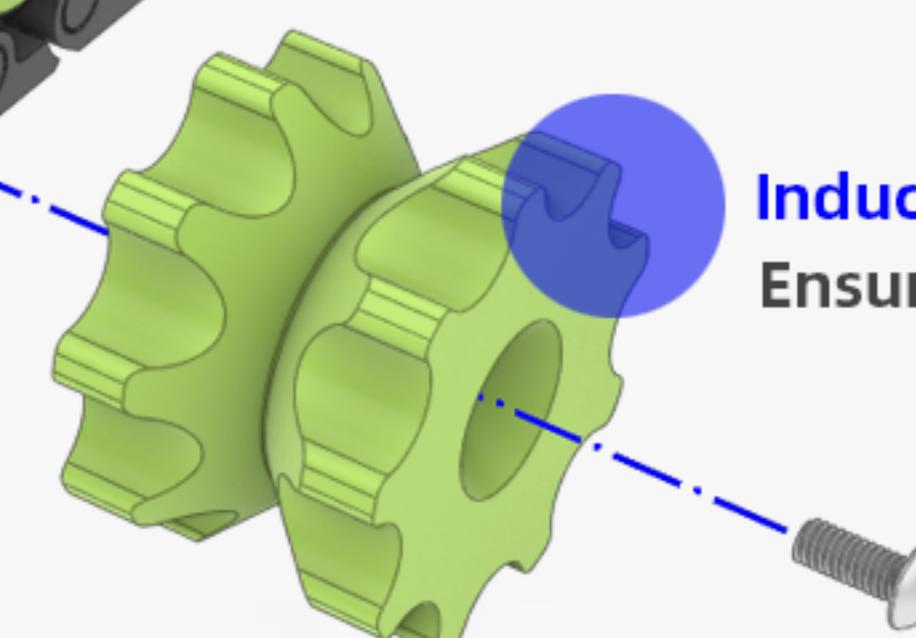
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07



07-2

Assemble the Tracks in position first, then pull out front track a little, push back with the "Induction Wheel" together.
Assemble the other side in the same way



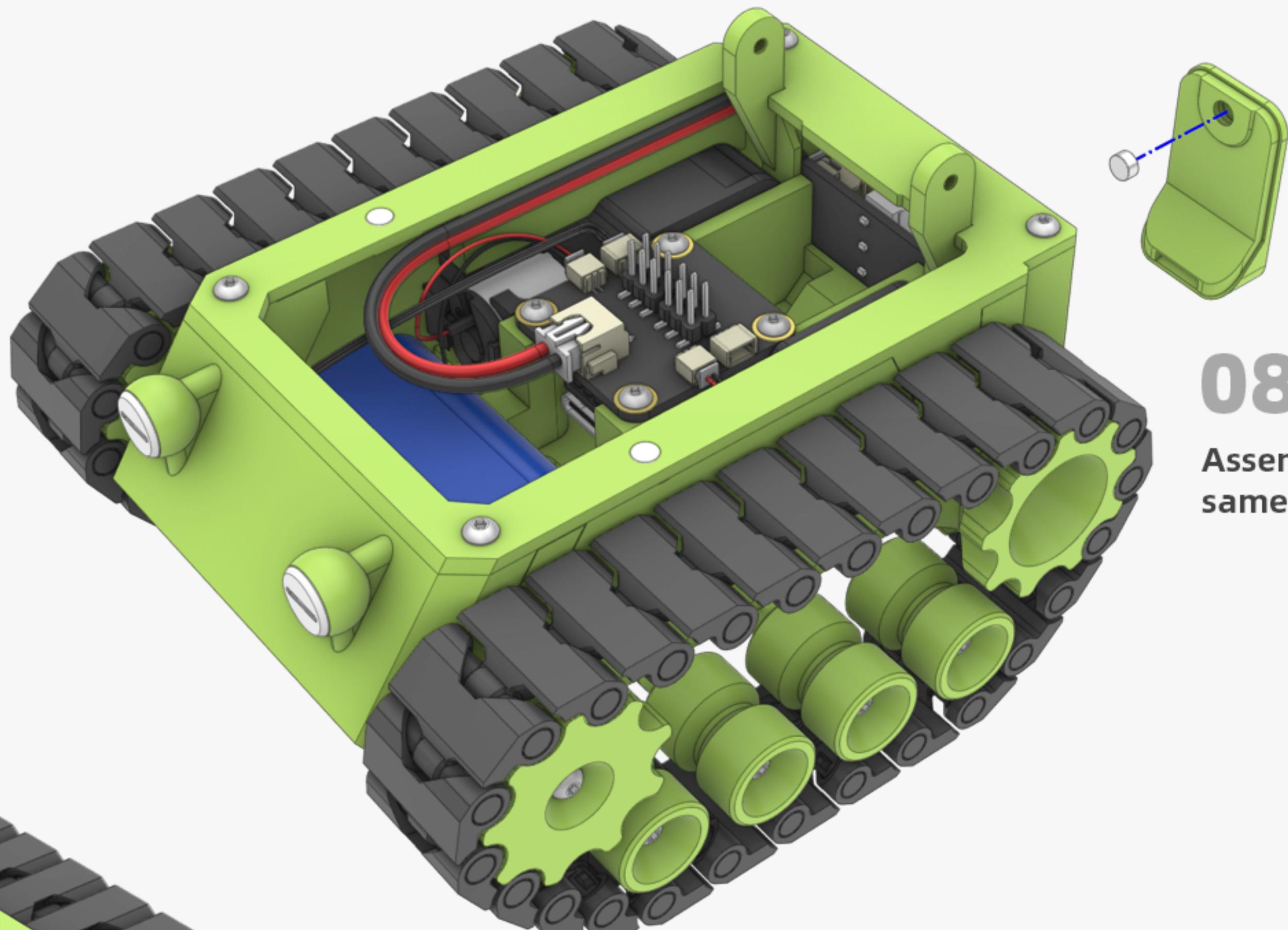
M2.5 (BHCS)
x2

07-1

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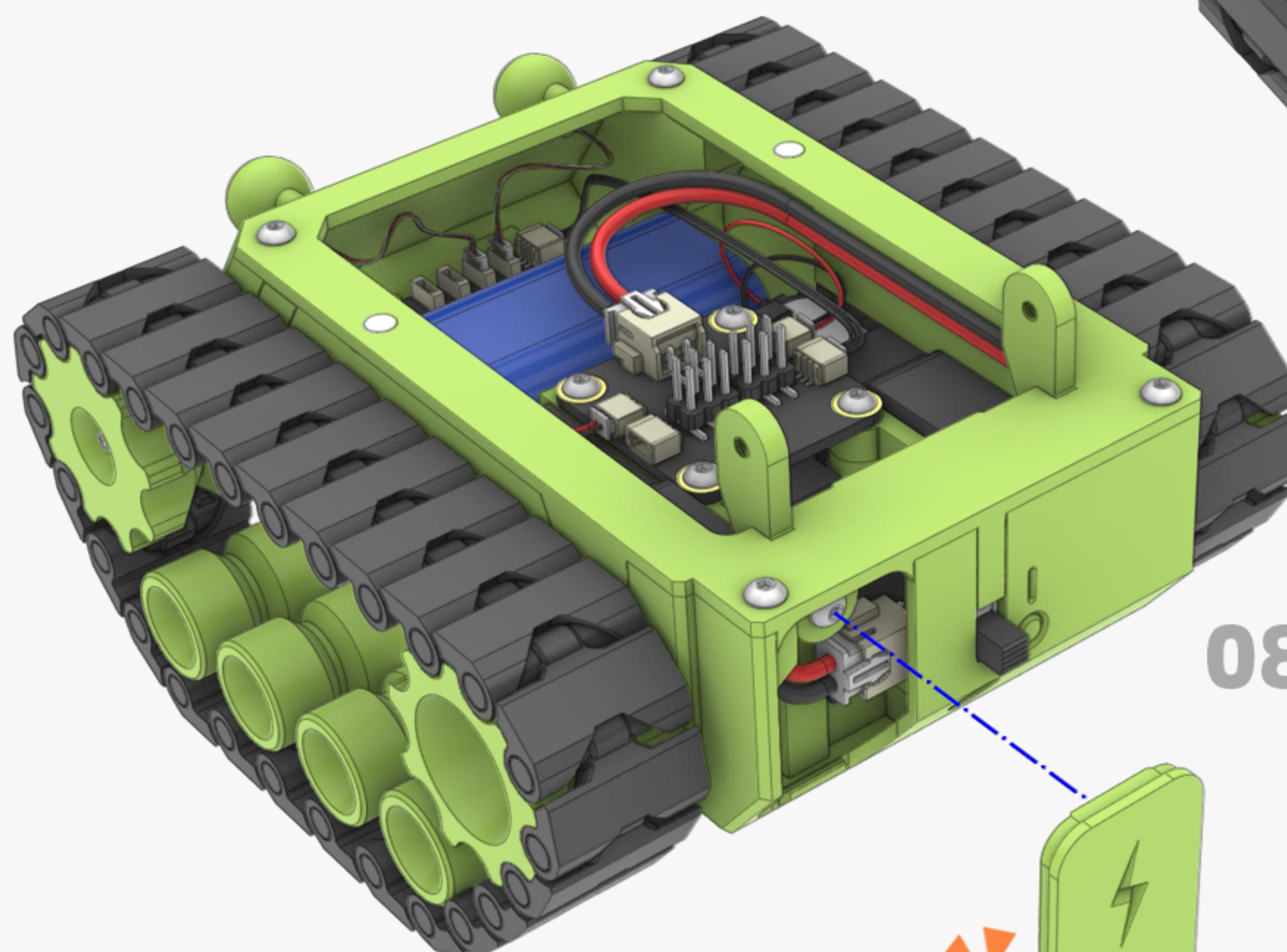
08

4x2mm Round Magnet x1



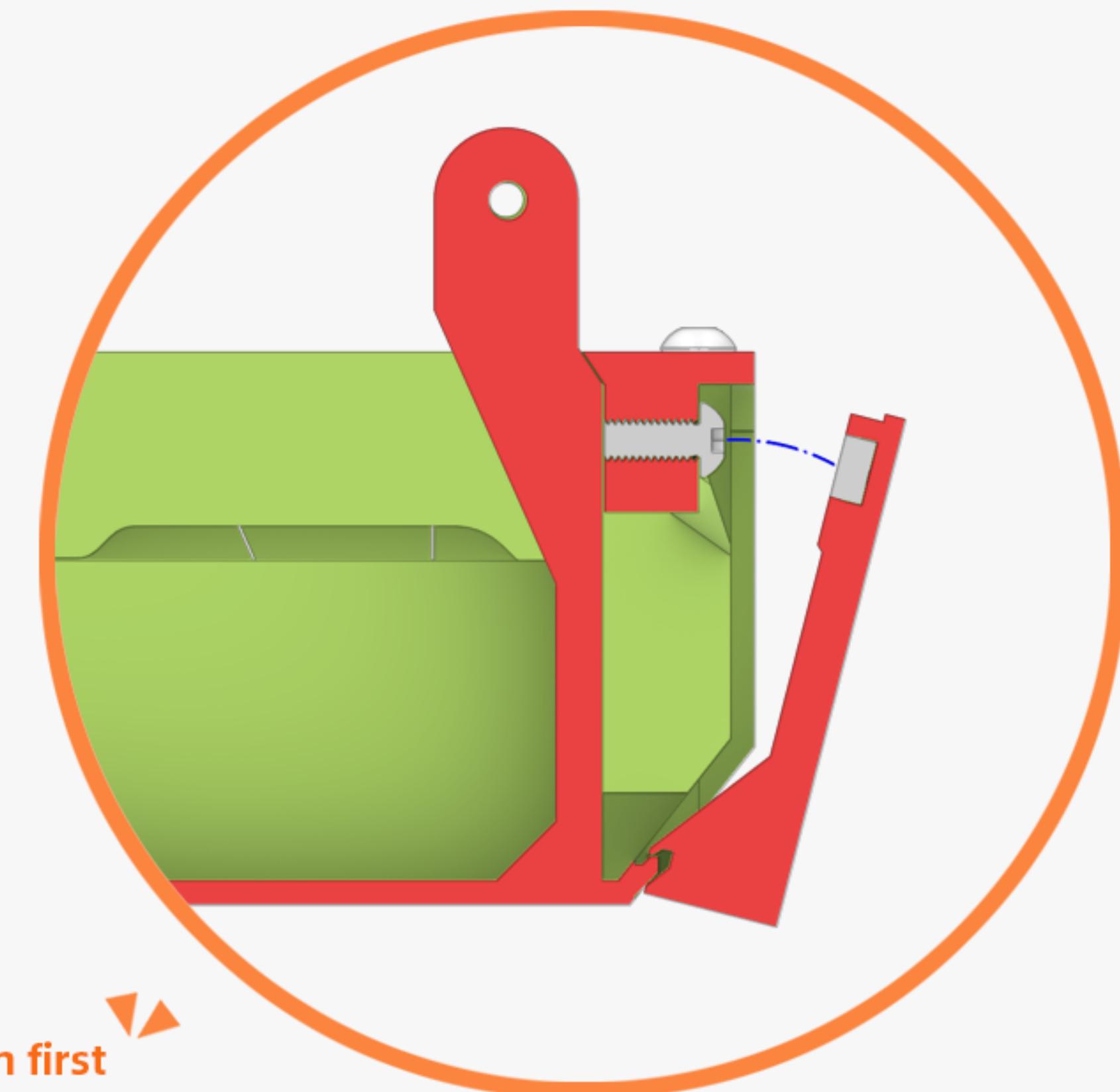
08-1

Assemble the magnet in the same way as in Step "06-1"



08-2

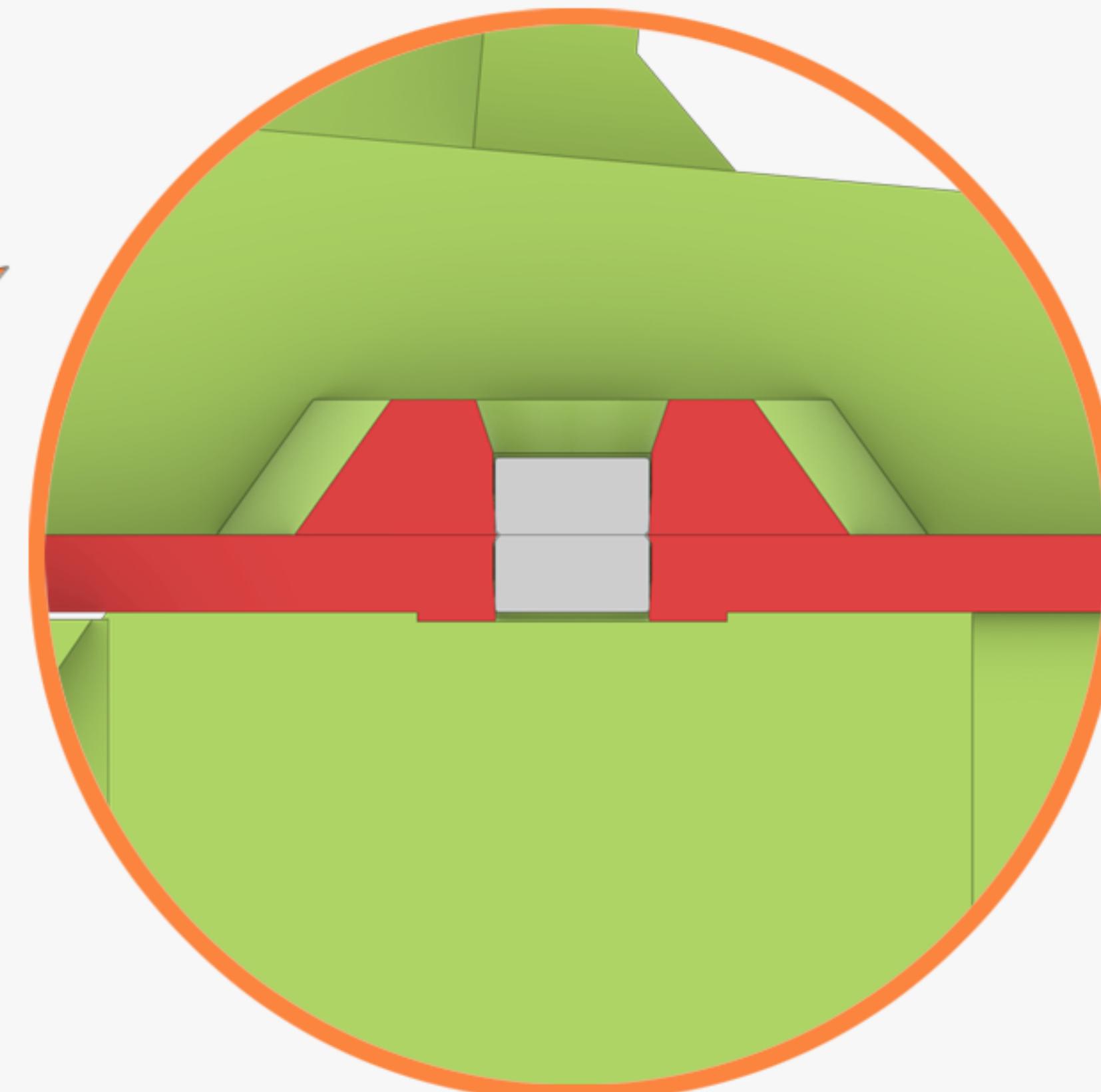
Put the bottom in position first



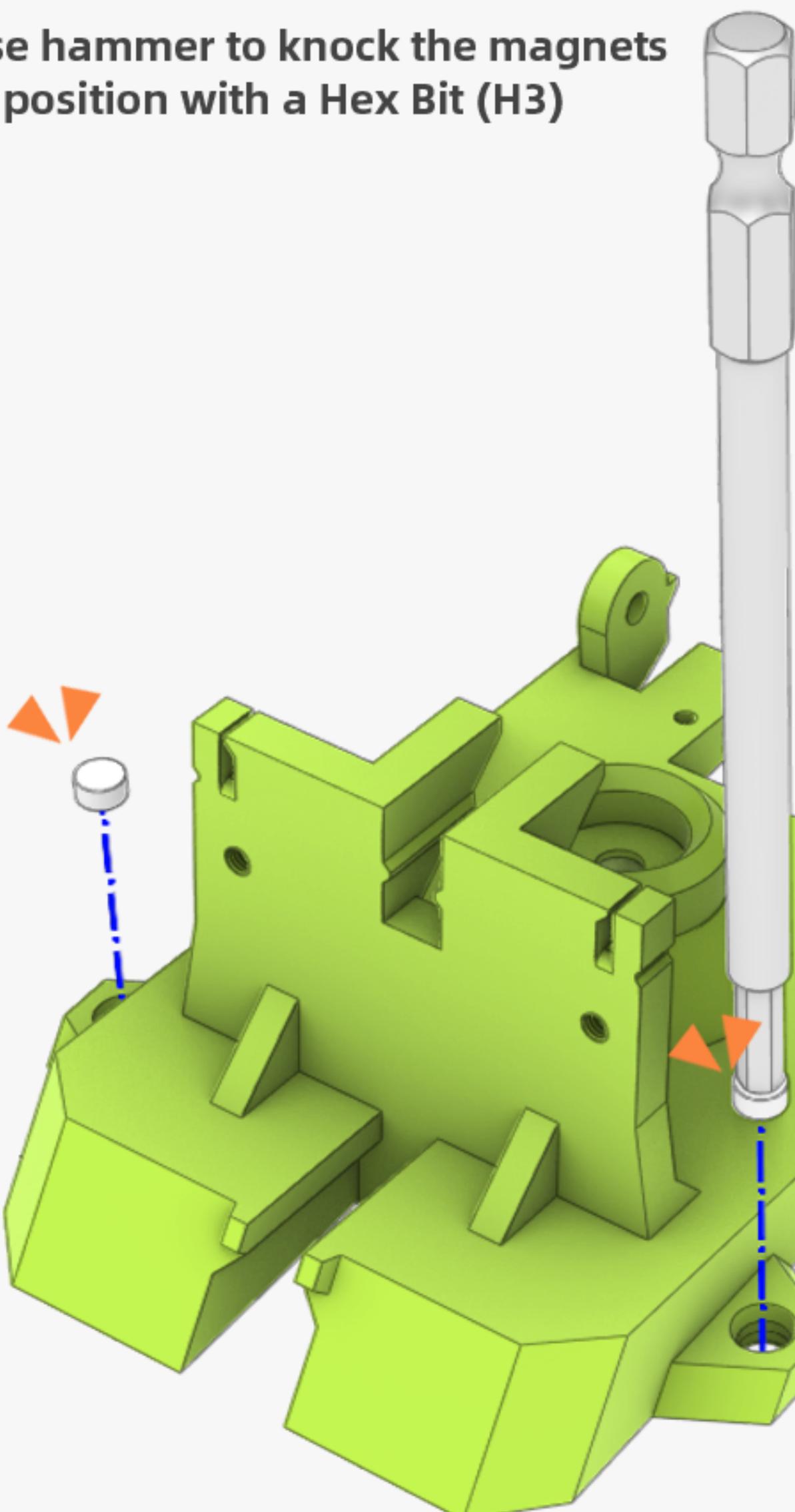
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09

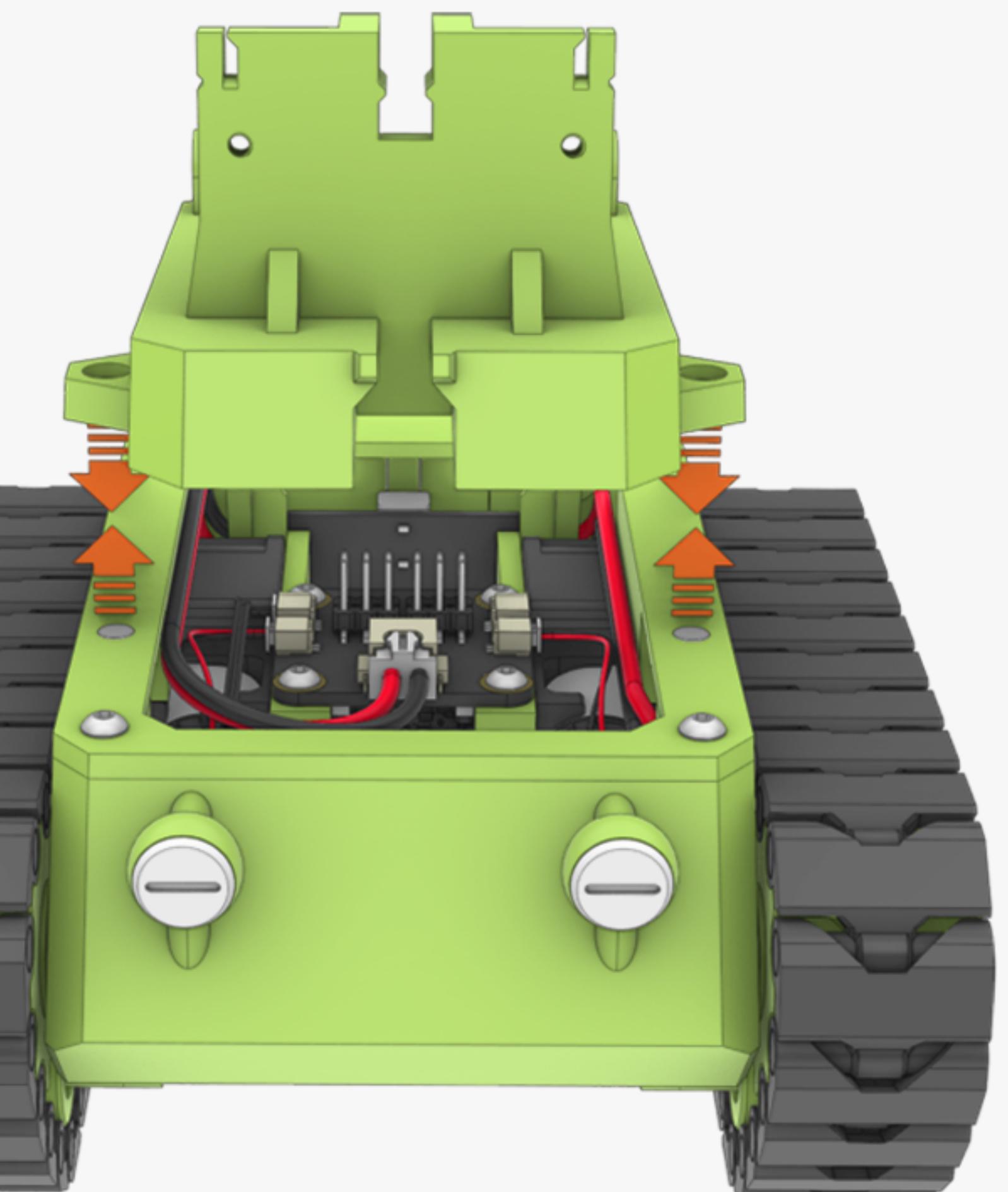
4x2mm Round Magnet x2



Use hammer to knock the magnets in position with a Hex Bit (H3)



Make sure the magnets touch the bottom and can attract with the magnets assembled in Step 6



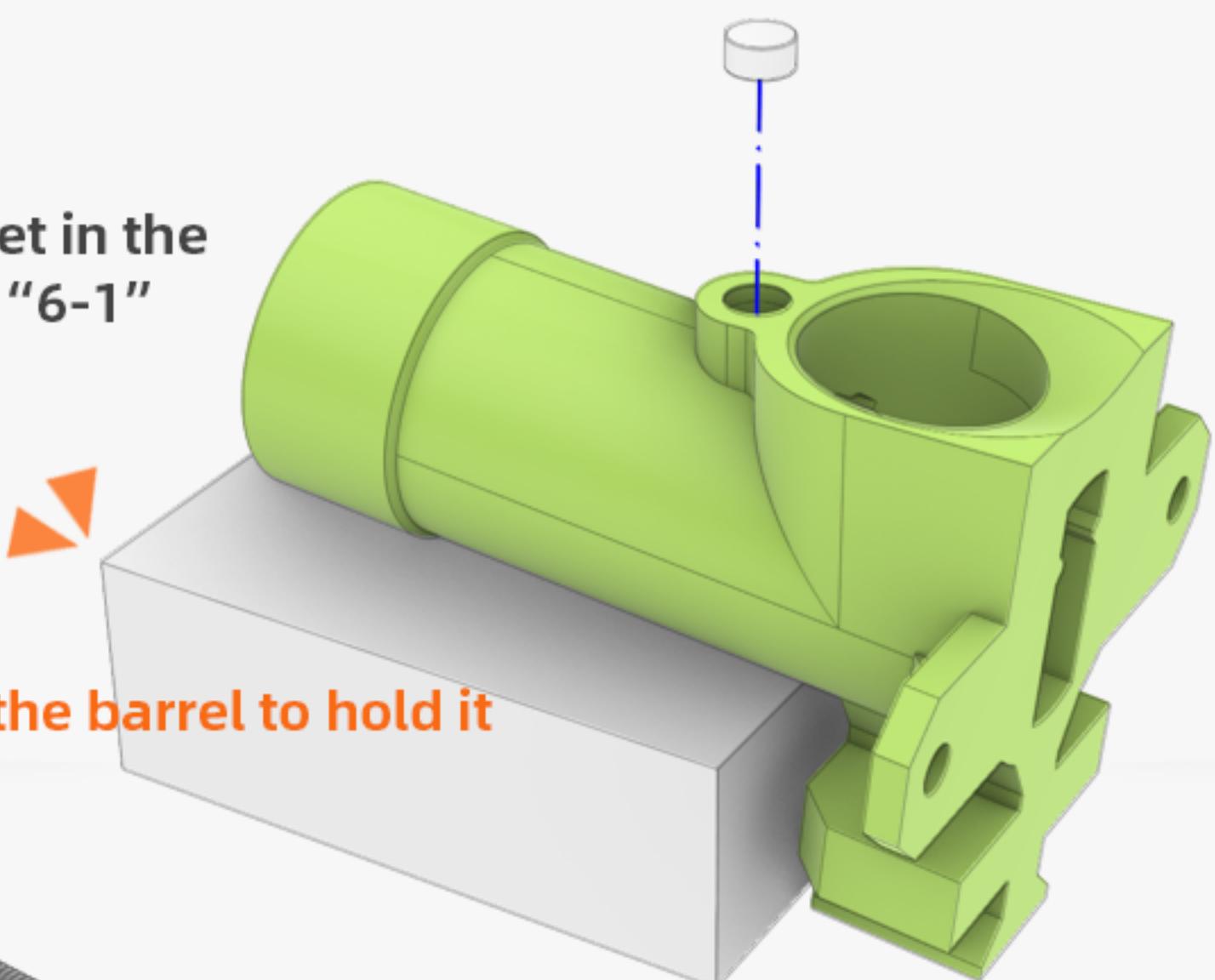
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10

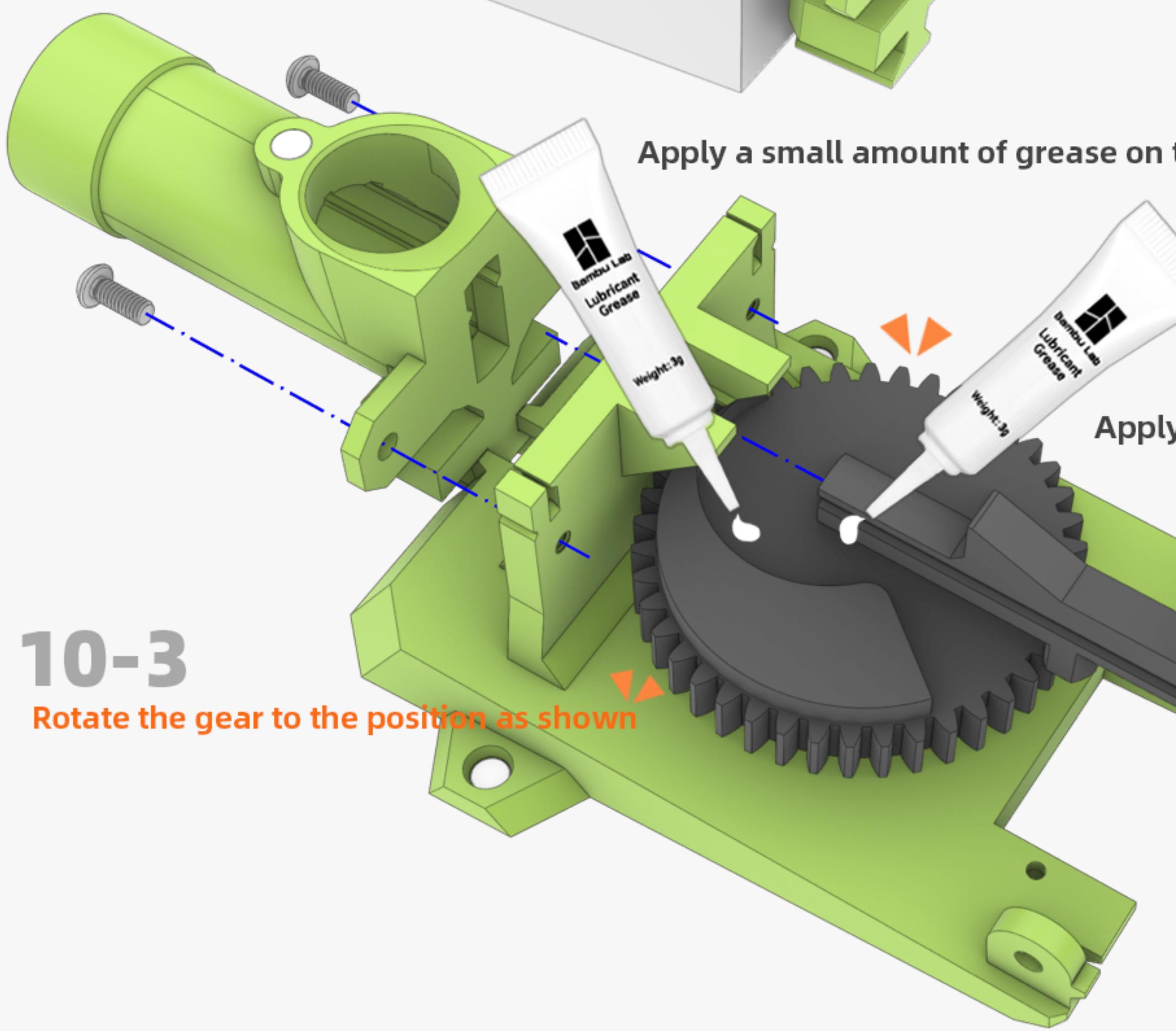
4x2mm Round Magnet x1

10-2

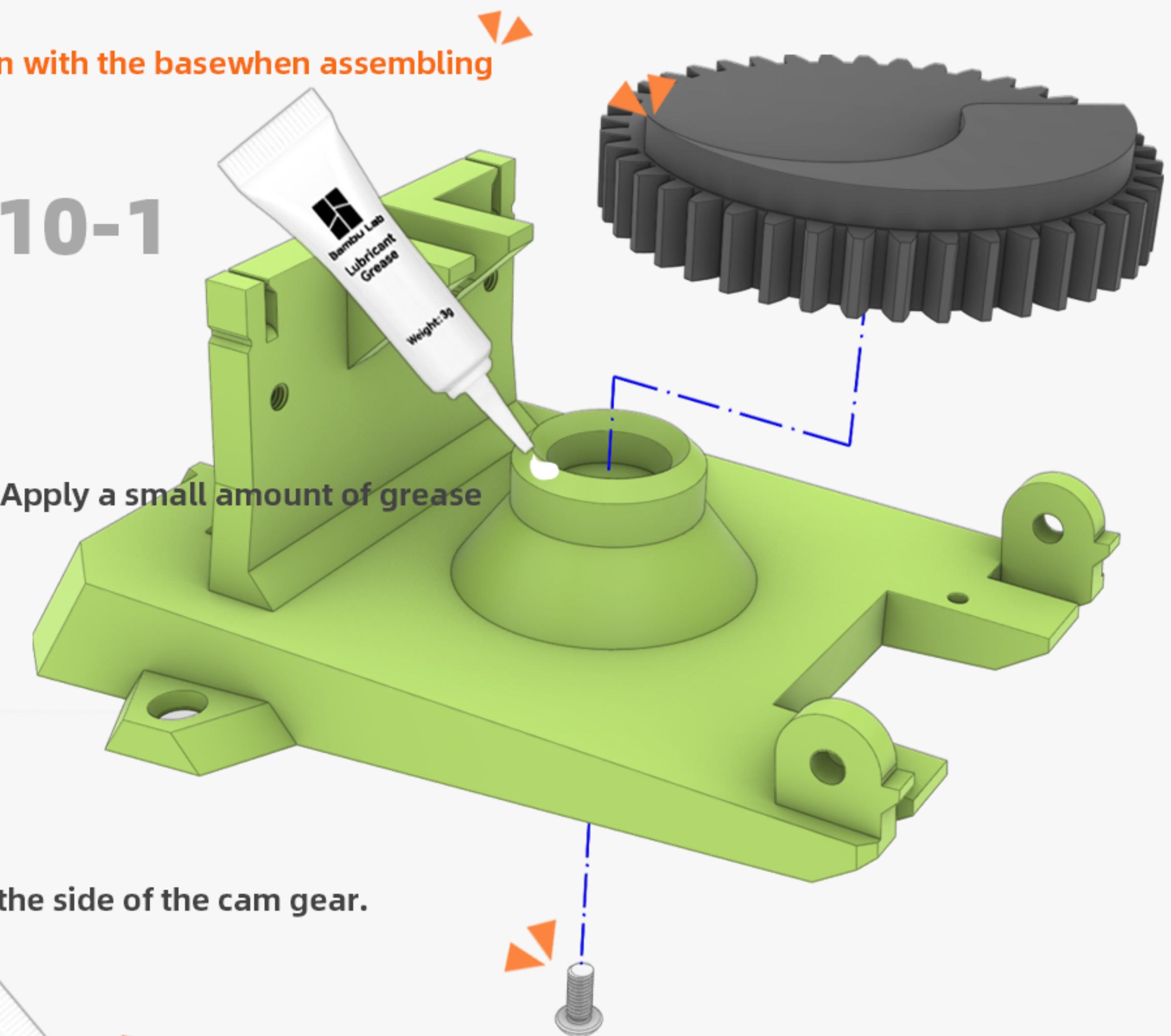
Assemble the magnet in the same way as in Step "6-1"



Put something under the barrel to hold it



Apply a small amount of grease on the side of the cam gear.



Do not screw too tight, make sure the gear can rotate smoothly

Apply a small amount of grease on the groove of 2 sides

M2.5 (BHCS)
x3

10-3

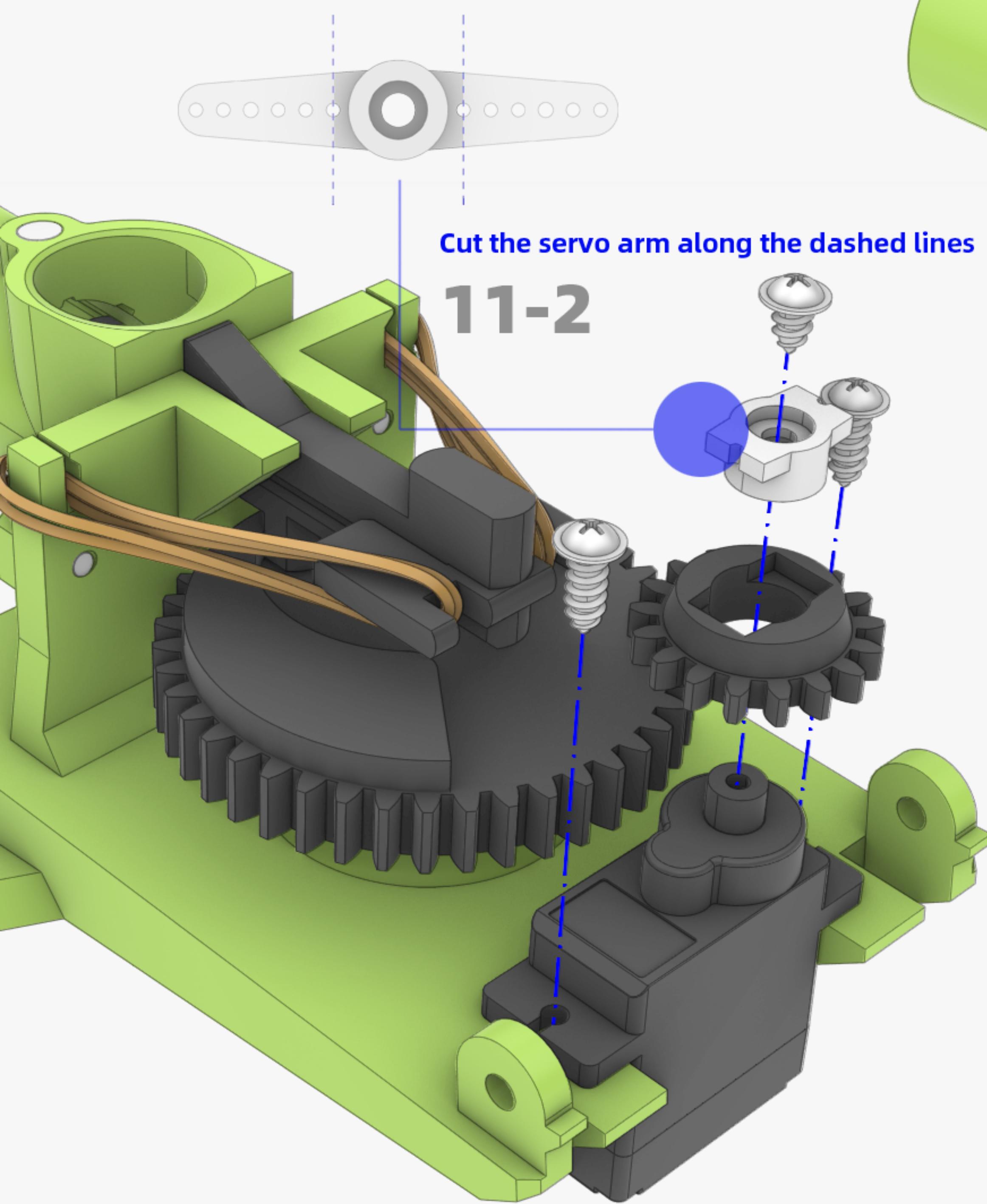
Rotate the gear to the position as shown

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11

1.4x20mm Basic Rubber Bands x4

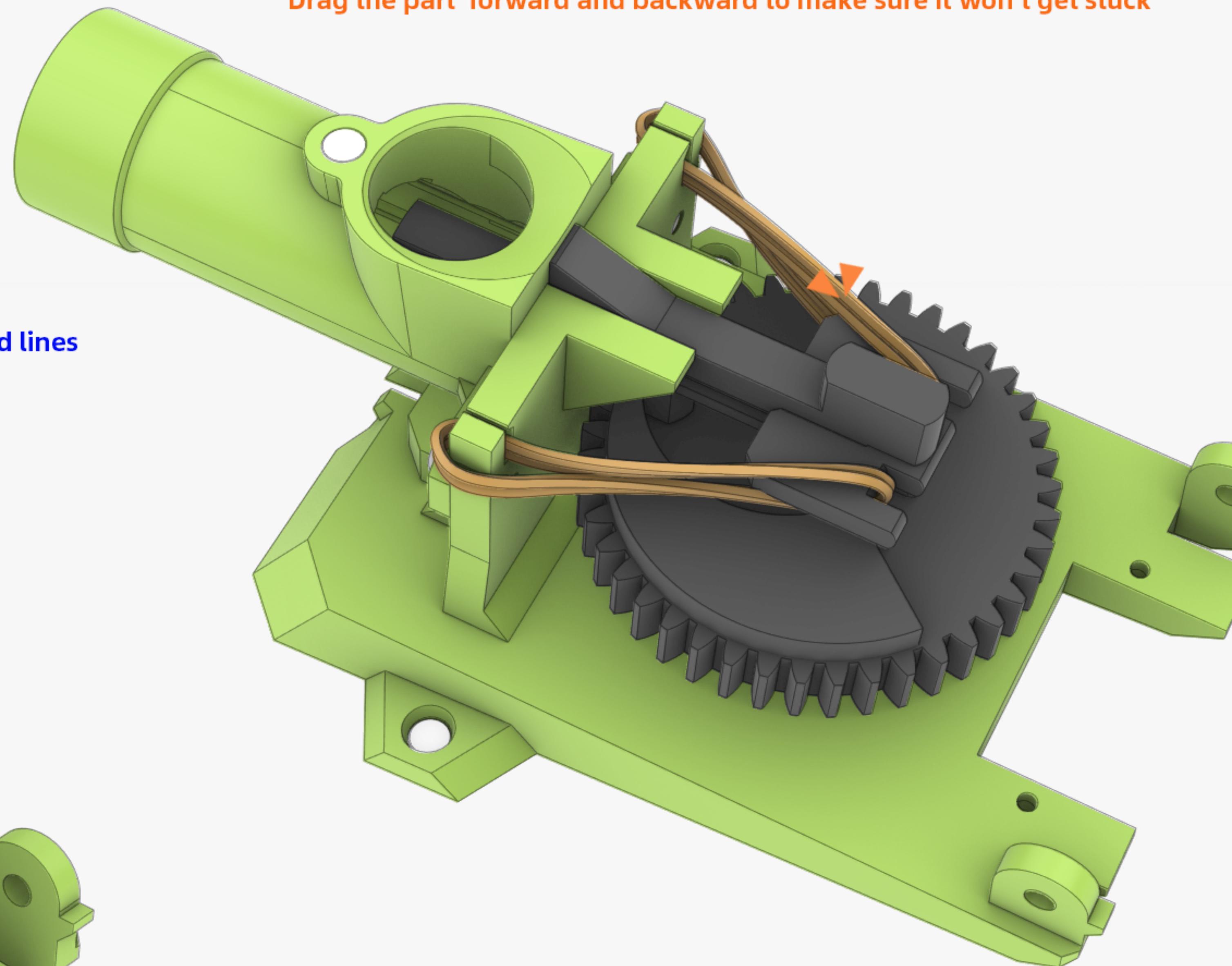
360° 9g Servo Motor with Clutch Protection x1



11-1

Put the Rubber Bands in position(2 each side)

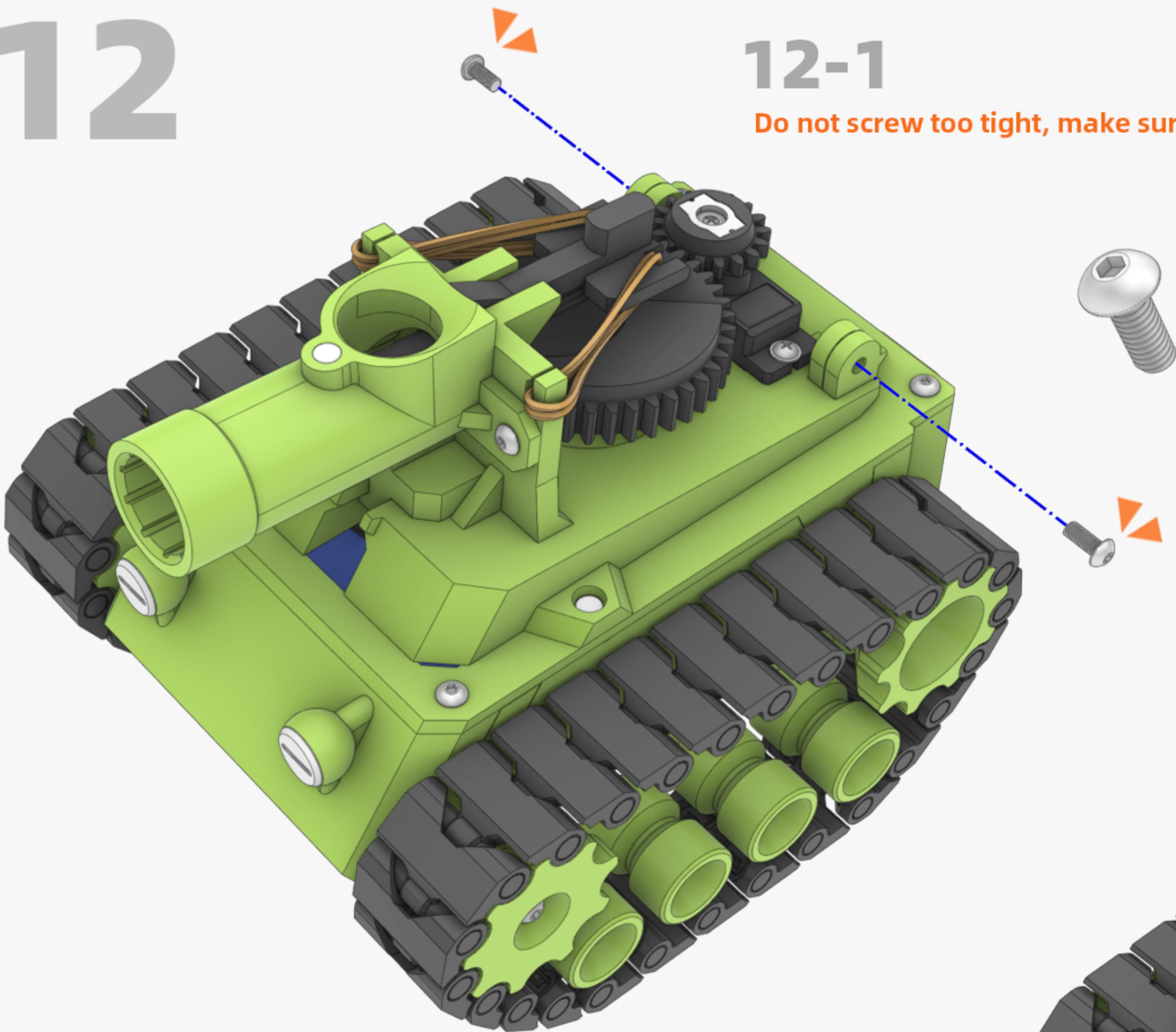
Drag the part forward and backward to make sure it won't get stuck



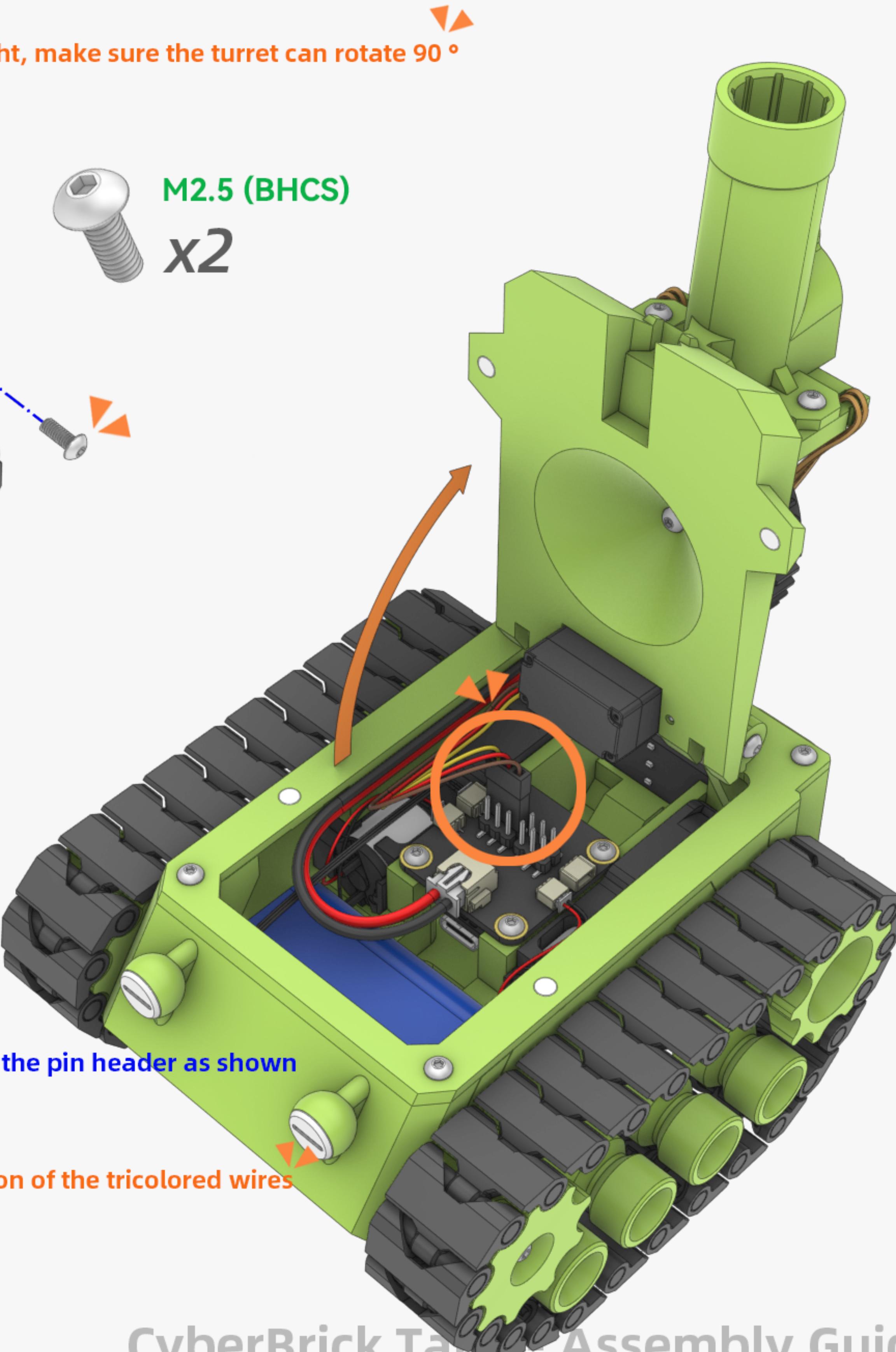
12

12-1

Do not screw too tight, make sure the turret can rotate 90 °



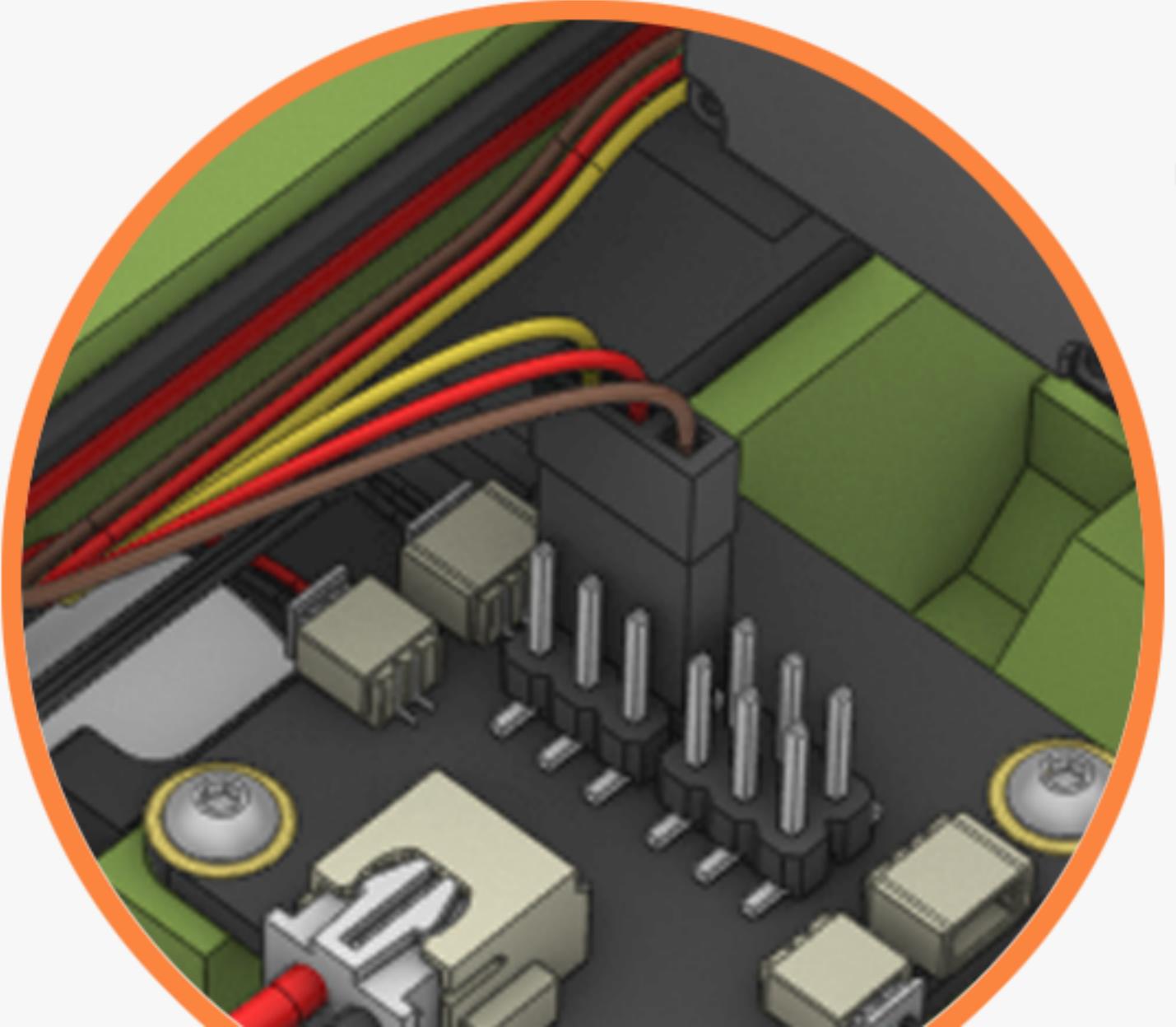
M2.5 (BHCS)
x2



12-2

Connect the servo cable to the pin header as shown

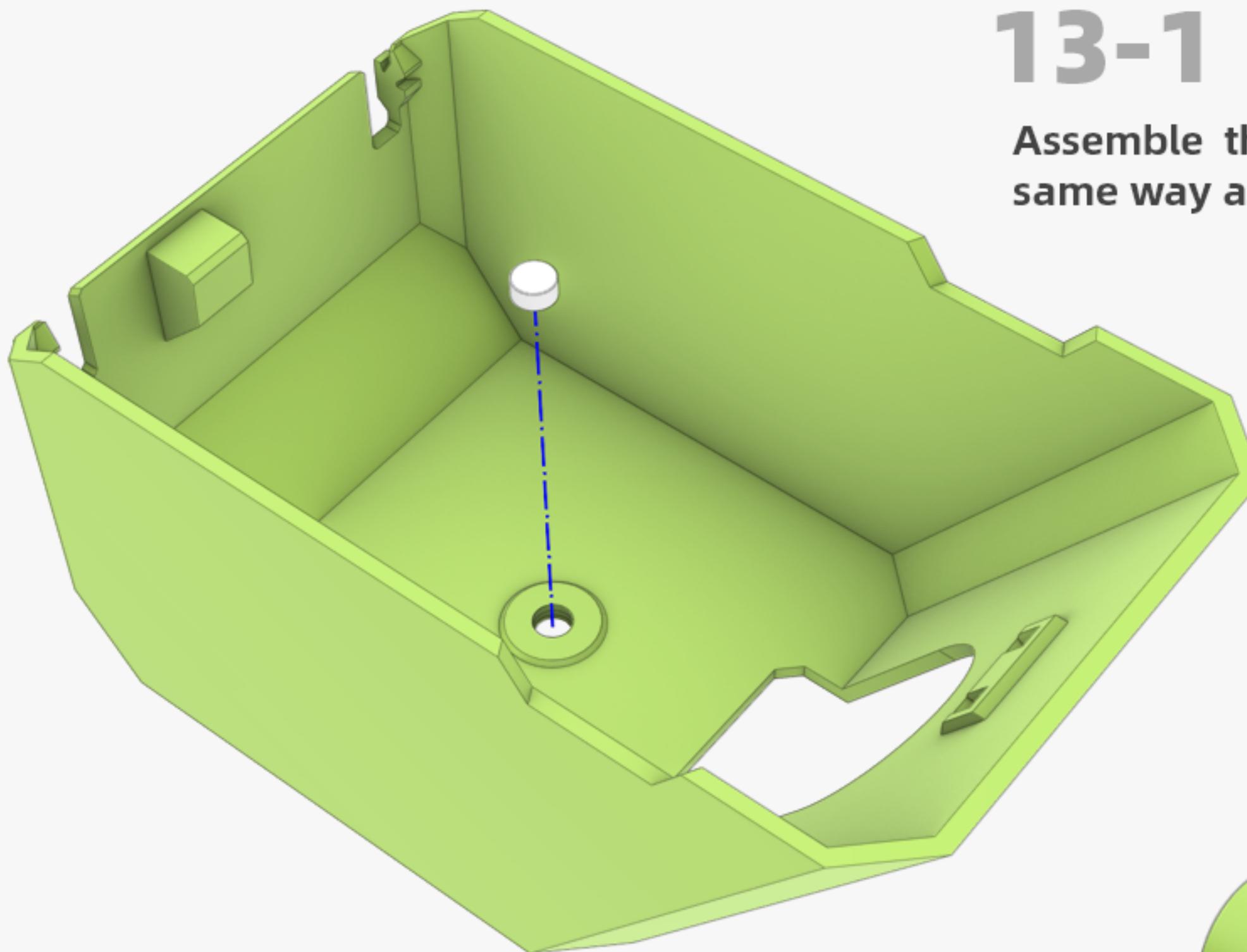
Double check the orientation of the tricolored wires



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13

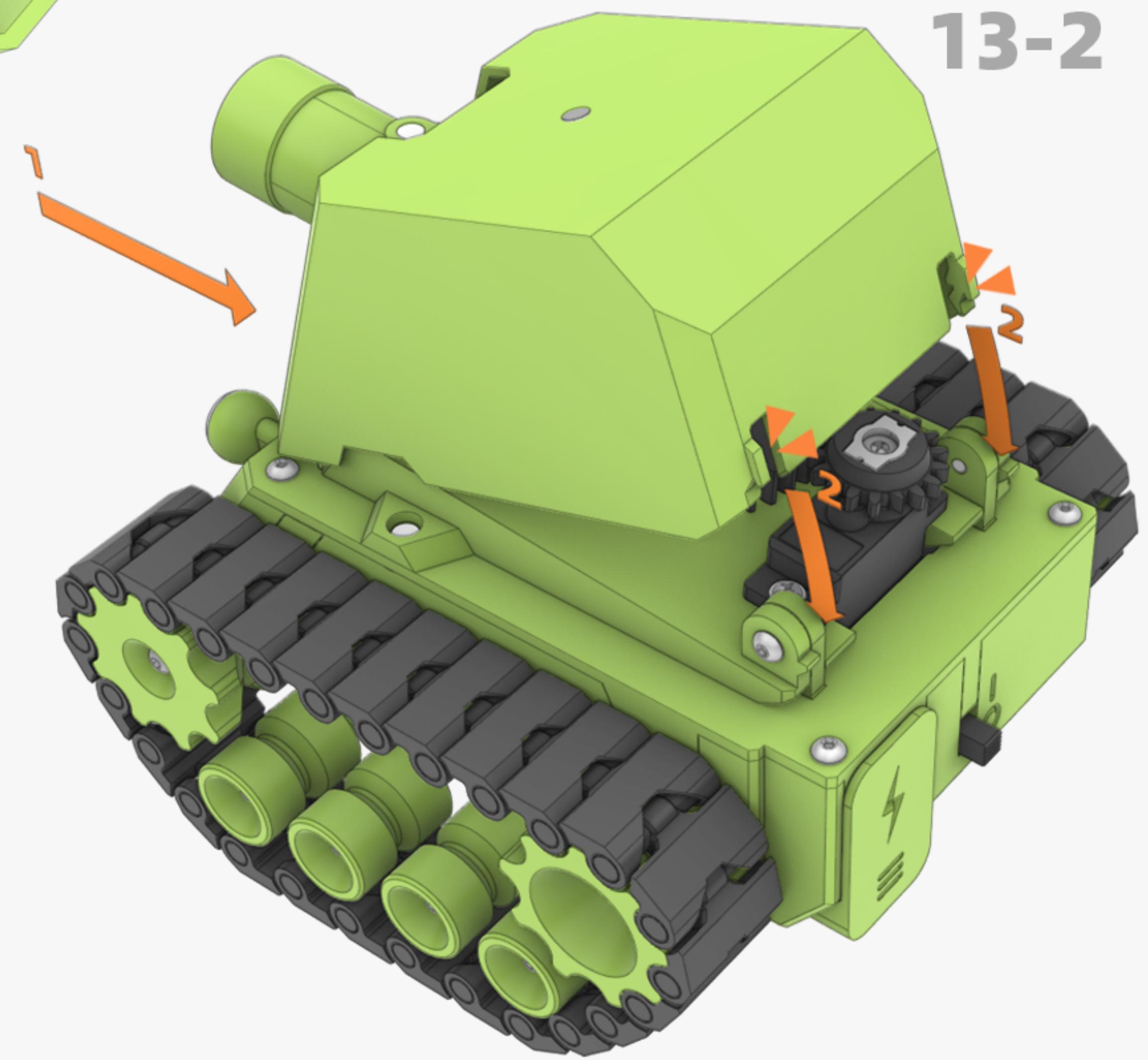
4x2mm Round Magnet x1



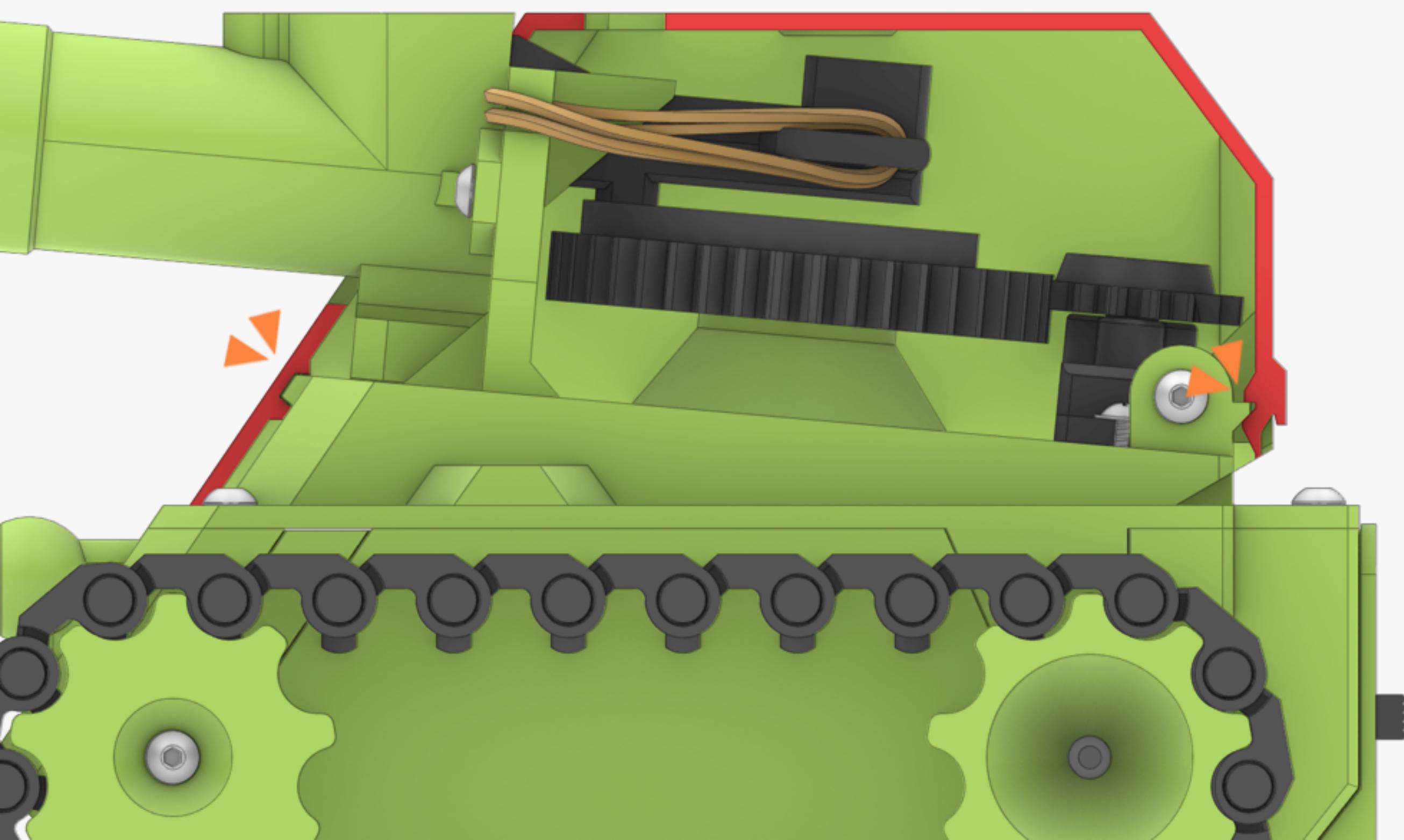
13-1

Assemble the magnet in the same way as in Step "6-1"

13-2



You can hear the sound "click" when assembled in position



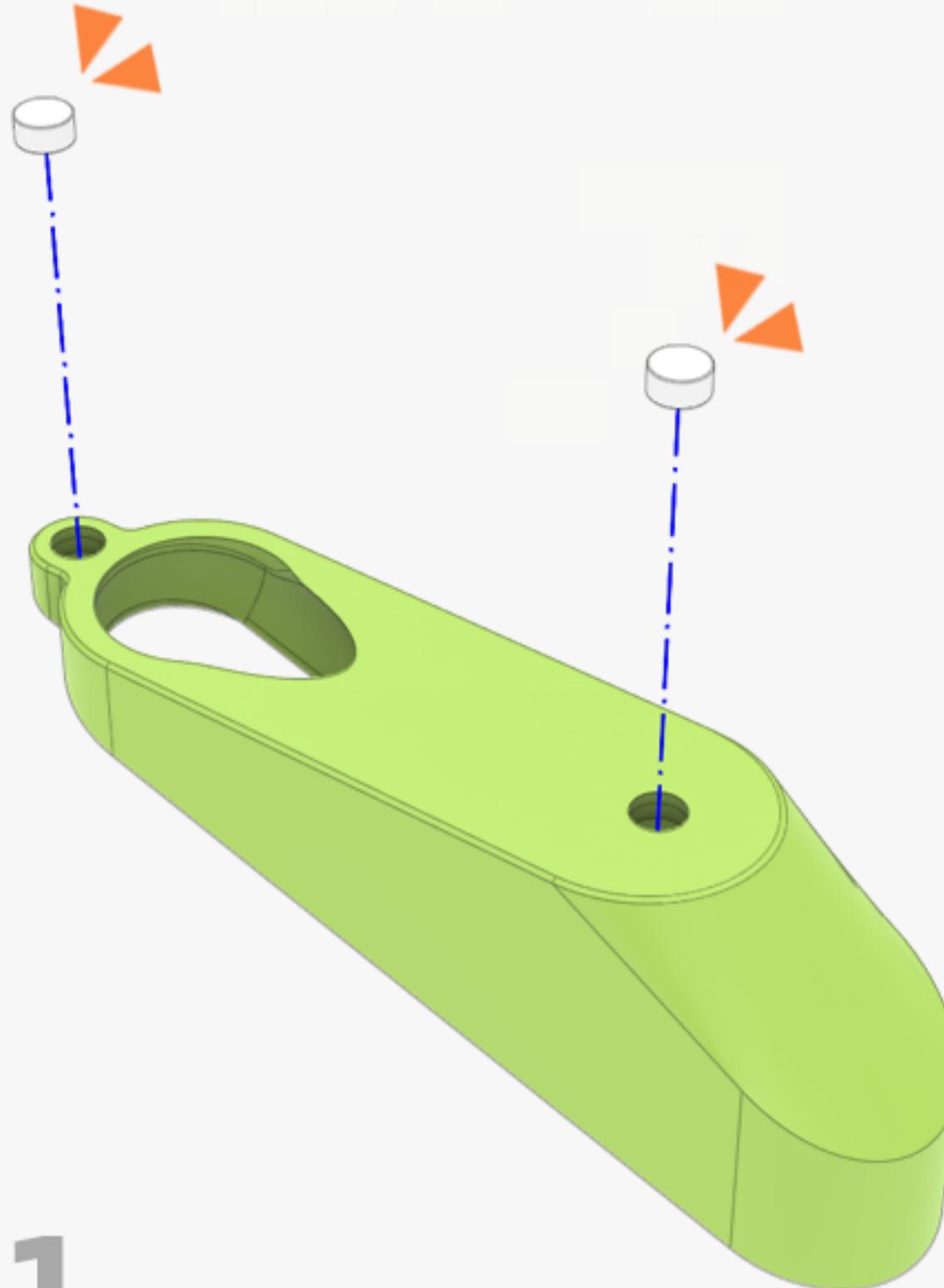
14

4x2mm Round Magnet x2
Plastic ball (10PCS) - ZB001 x6



M2.5 (BHCS)

x2



14-1

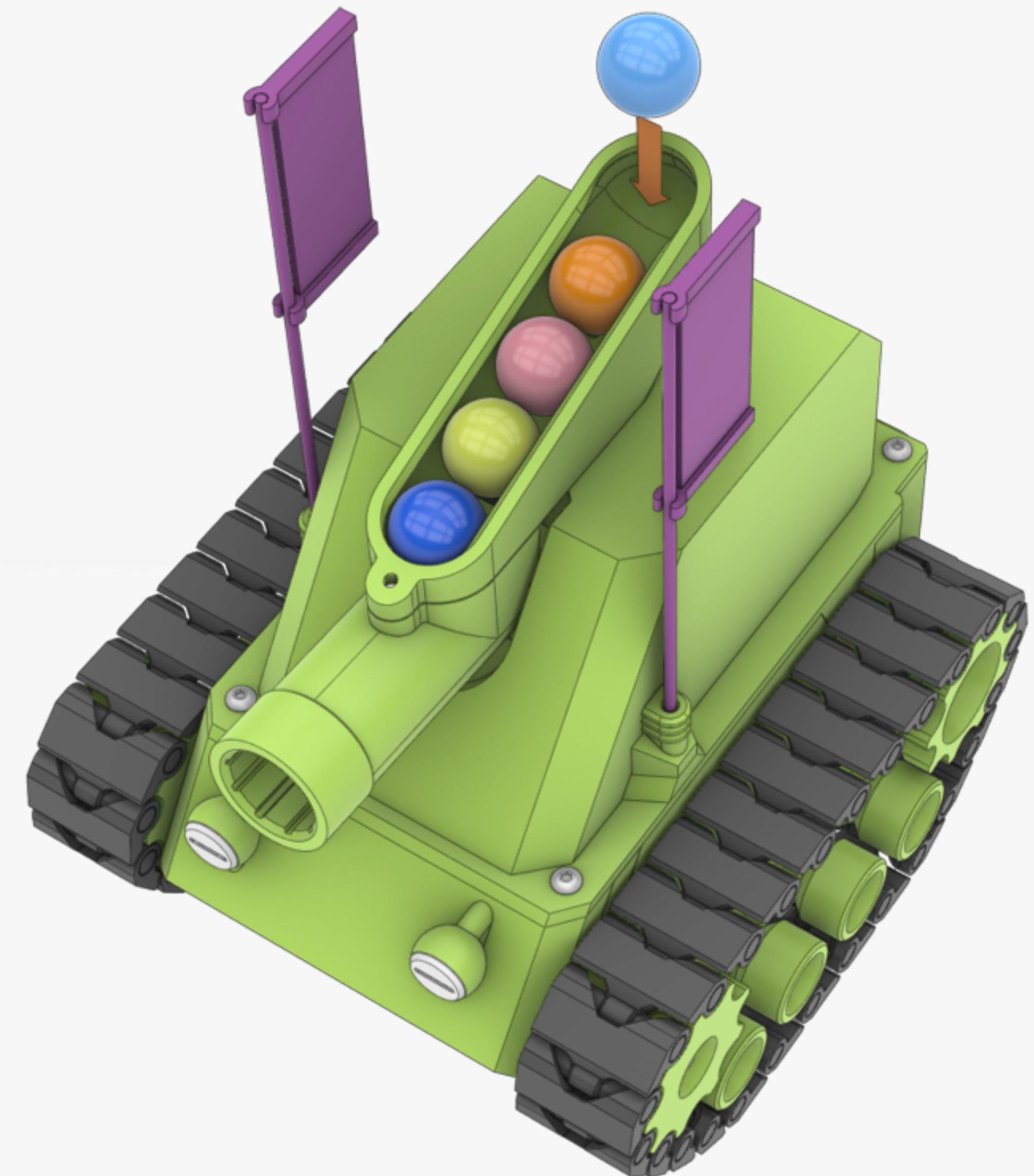
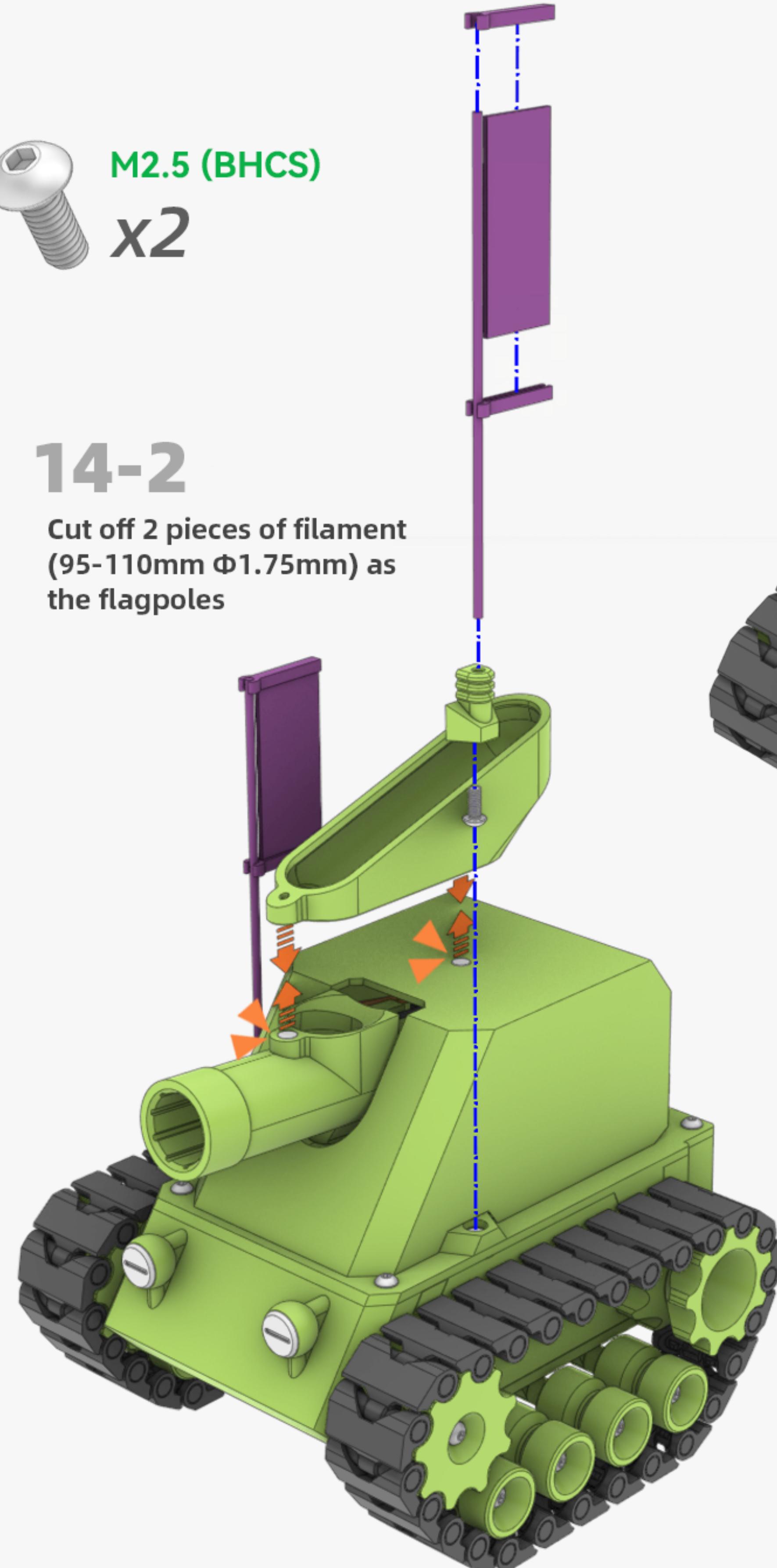
Assemble the magnet in the same way as in Step "6-1"



Make sure the magnets can attract with the magnets on the top of the turret

14-2

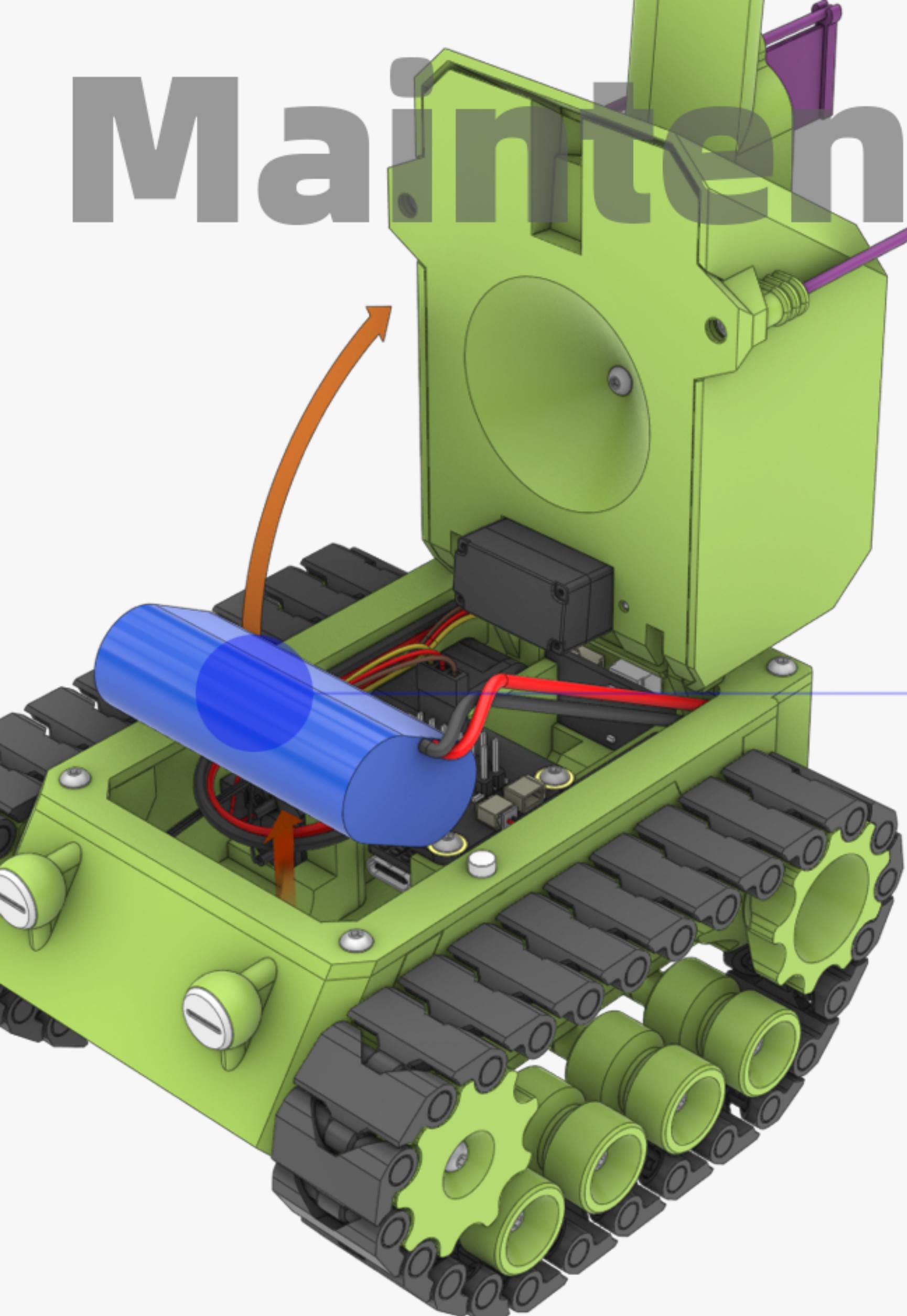
Cut off 2 pieces of filament (95-110mm $\Phi 1.75\text{mm}$) as the flagpoles



14-3

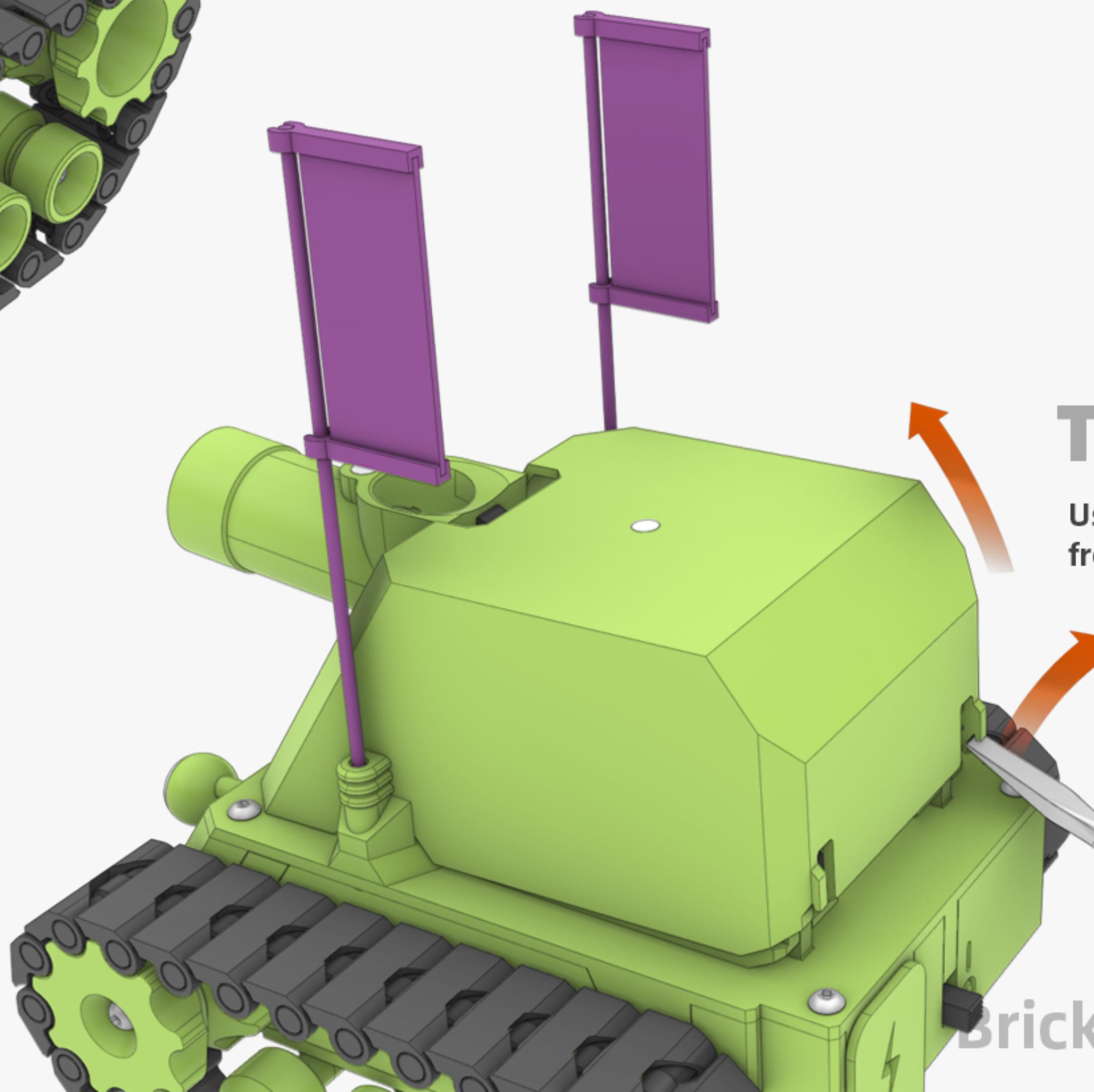
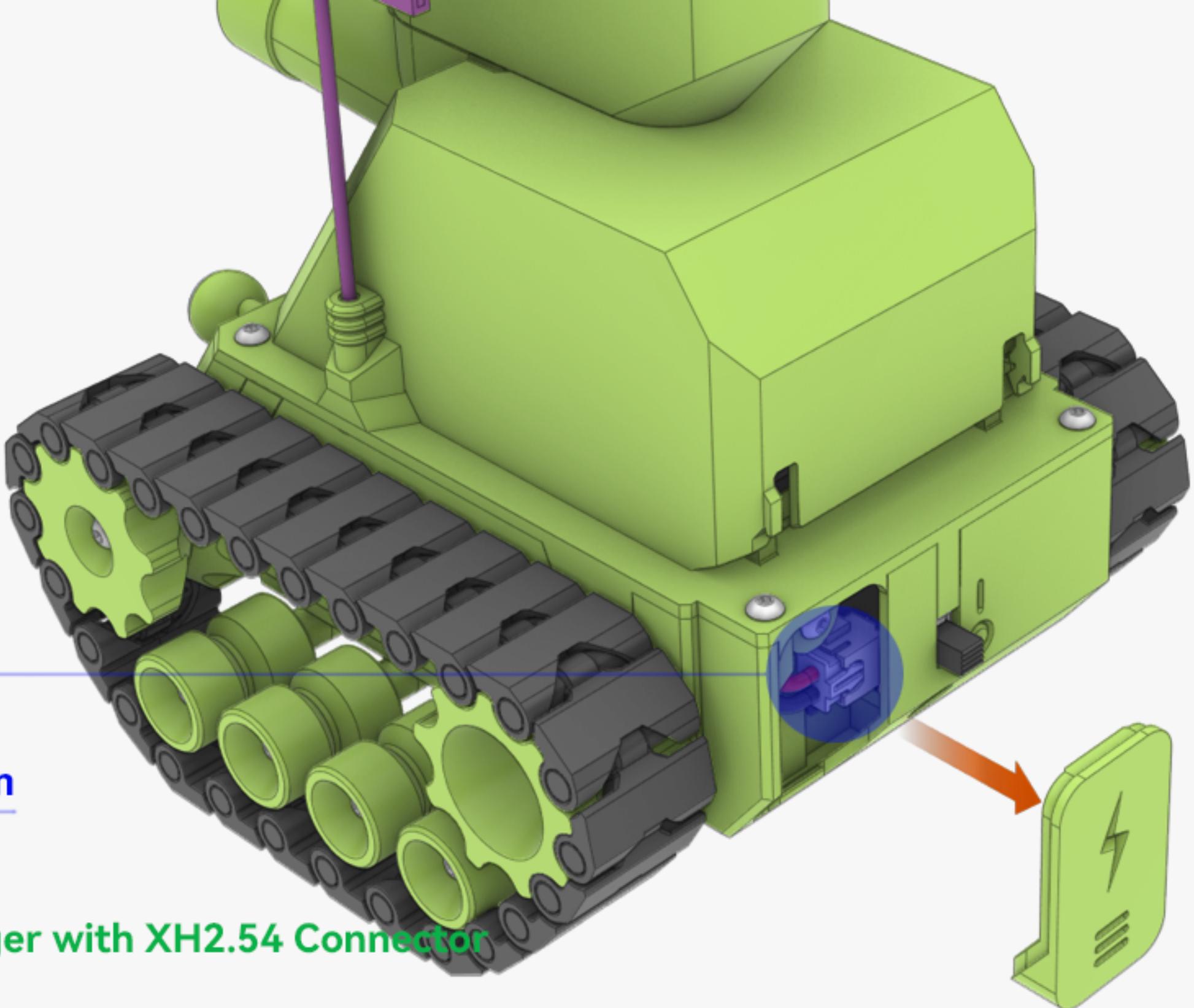
The Ball Holder on the top can contain 5 balls, you can put 1 more ball in the barrel

Maintenance



Recharge

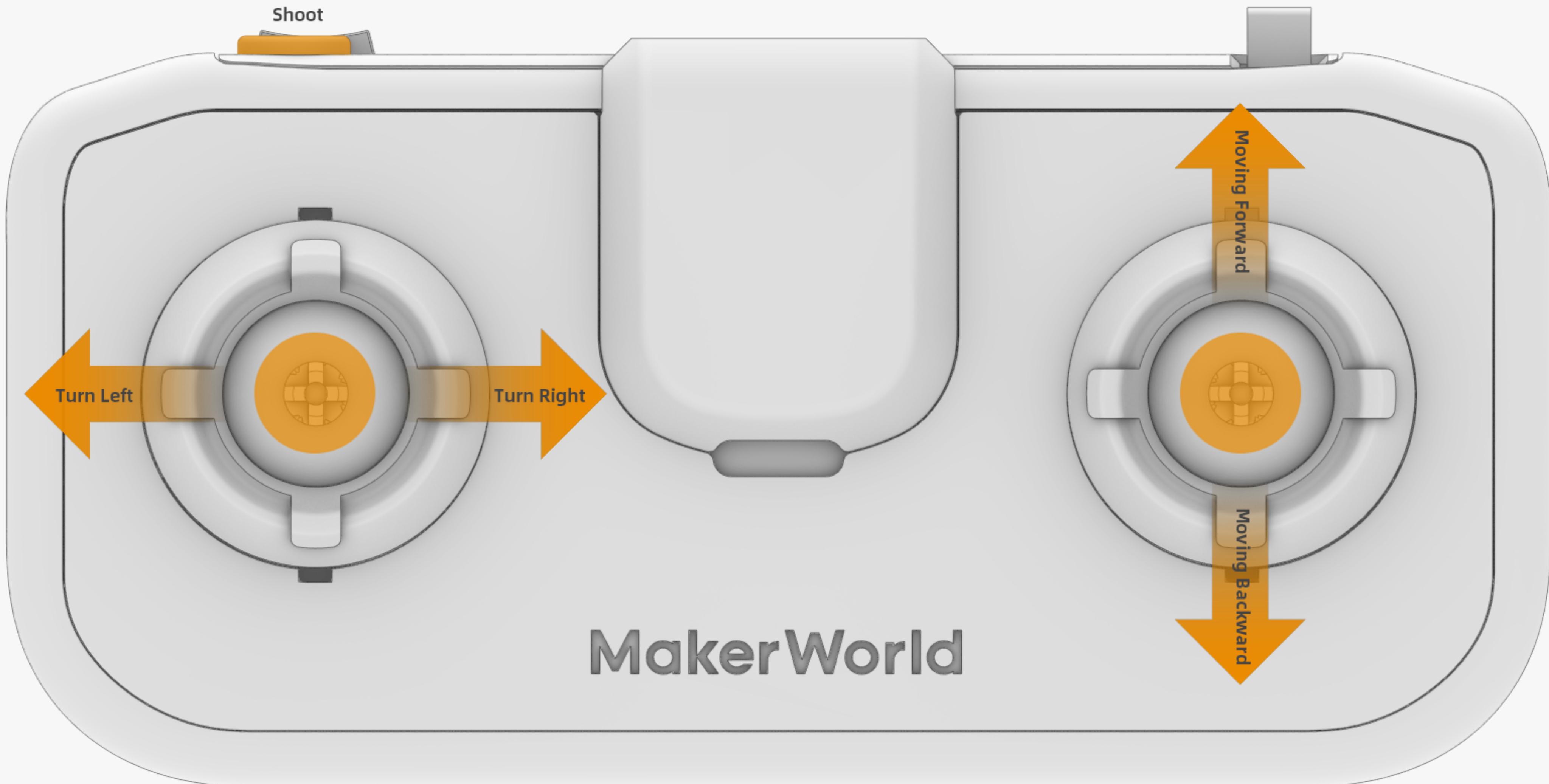
1. Remove the back door and disconnect the cable
2. Use finger to push the battery out from the bottom
3. Charge the battery with
7.4V Lithium Battery Charger with XH2.54 Connector

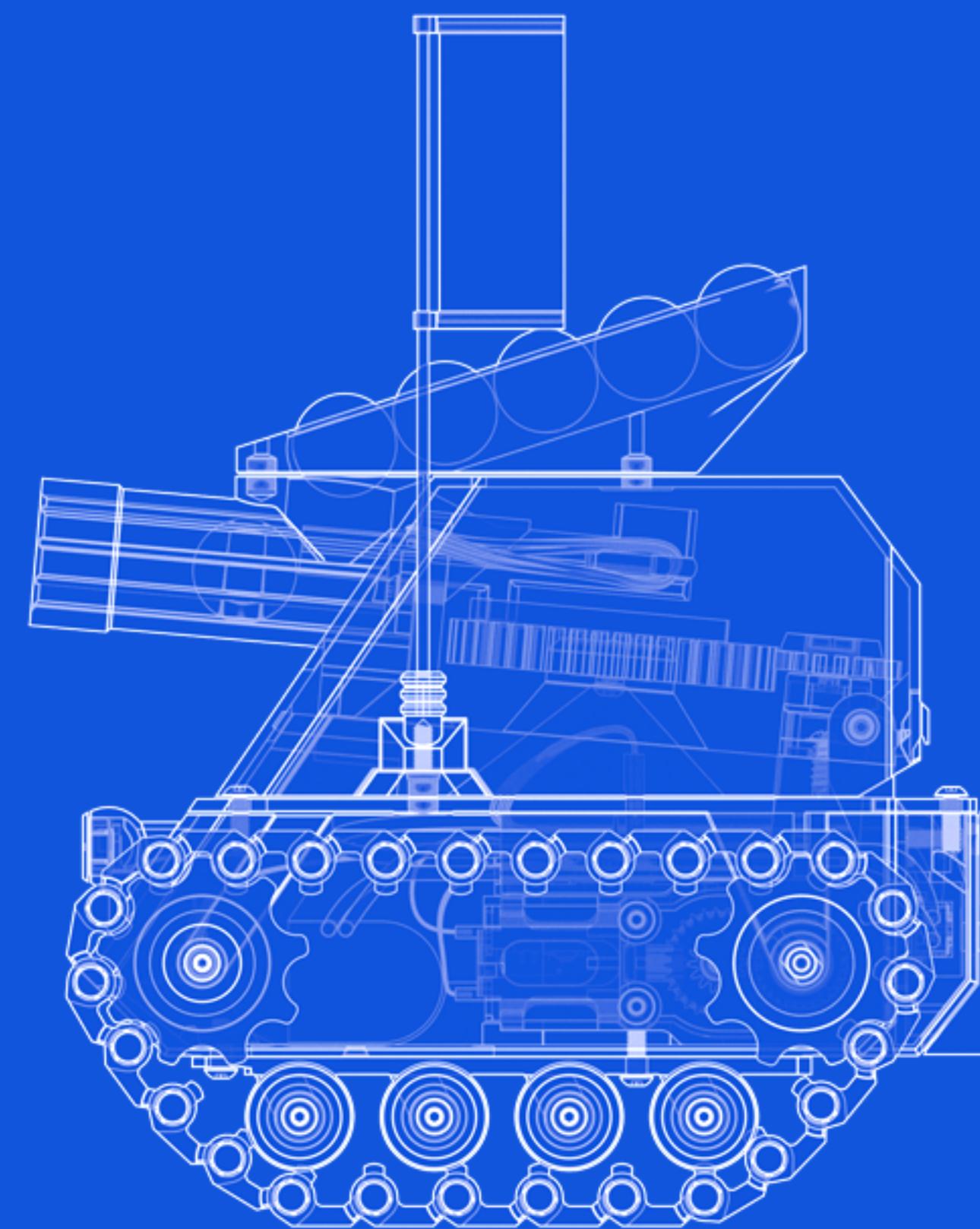
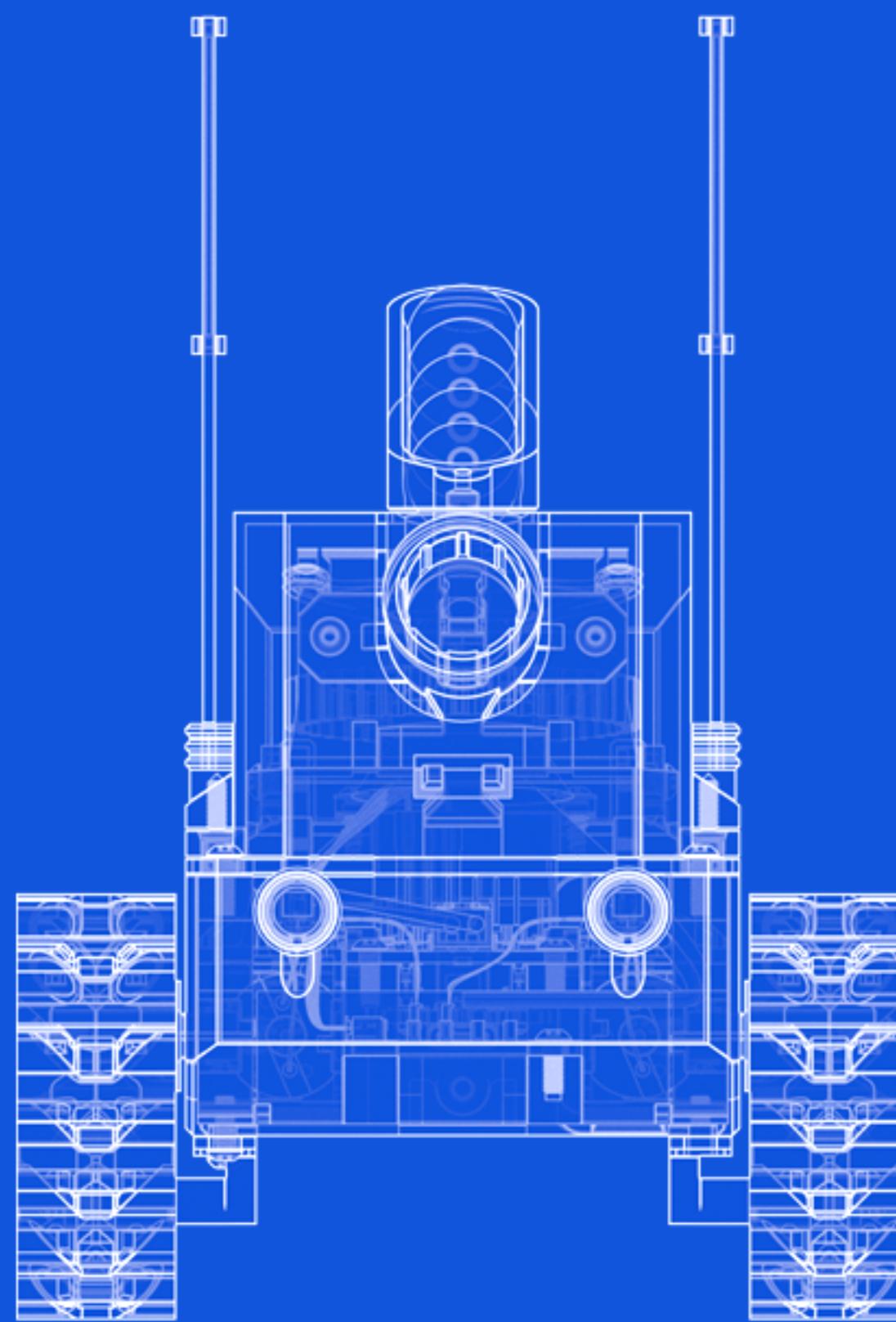
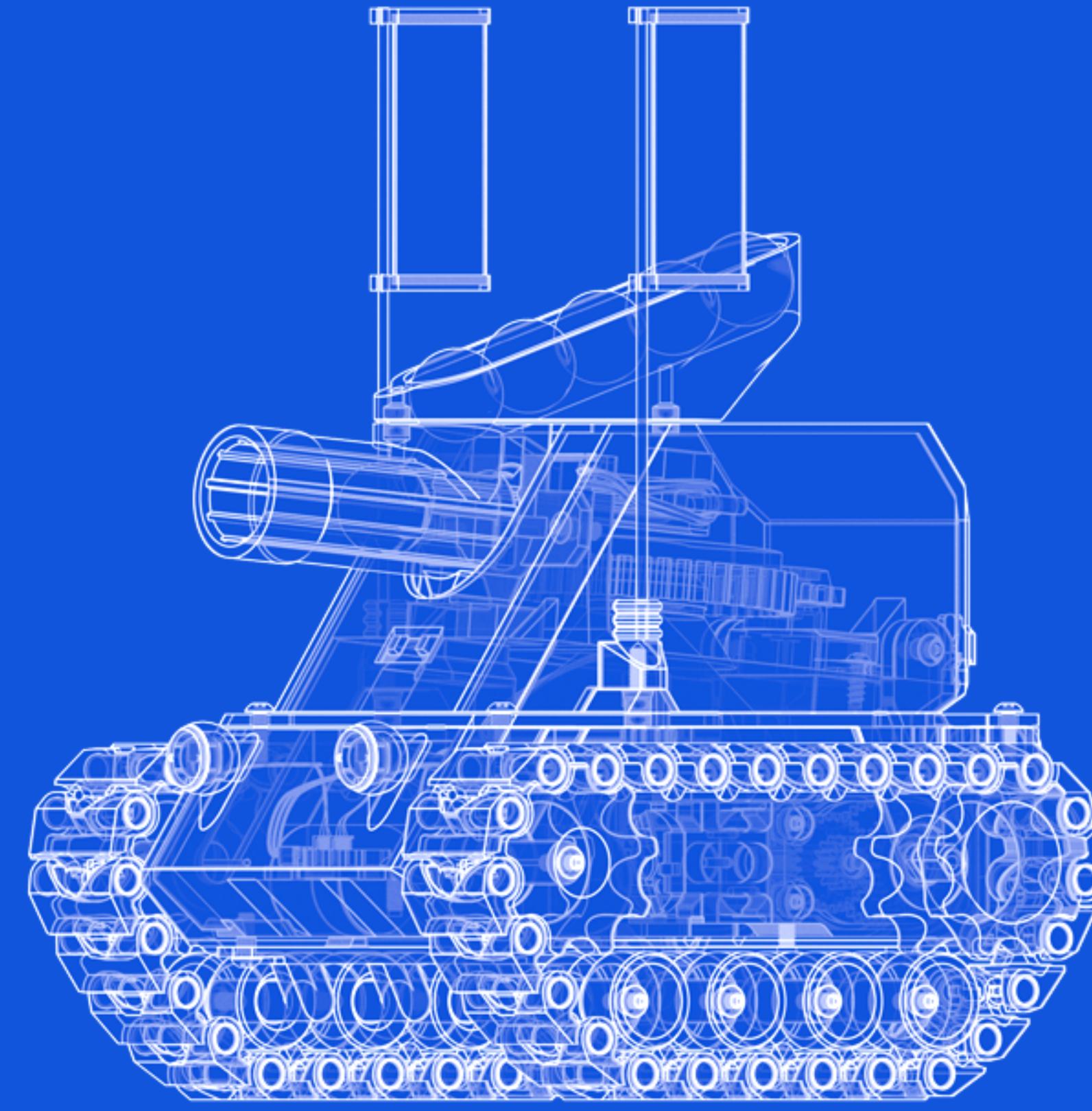
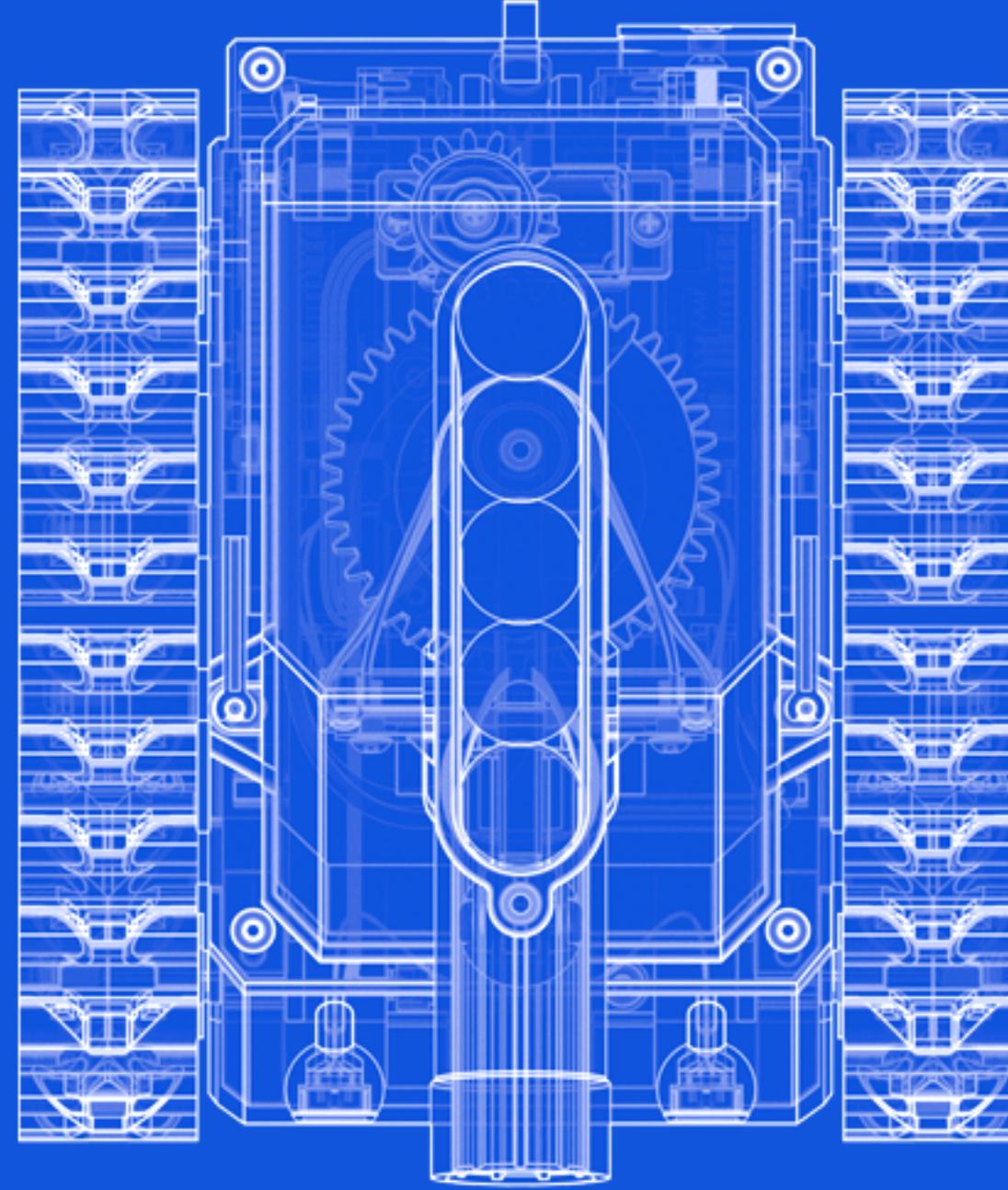


Turret Open

Use a slot-type screwdriver to prise from the bump

Controller





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Specifications

Size: 0.128X0.128X0.112m

Combat Weight: 0.00075t

Main Gun: 14mm Plastic Ball Shooter

Engine: 0.00095 hp Micro DC Moto X2

Top speed: 0.4km/h

Ammunition Storage: 6

Rate of Fire: 20/m



Thank you! Have fun!

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CyberBrick Tank

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