

MakerWorld @wuguigui

CyberBrick 4X4 Jeep

Assembly Guide



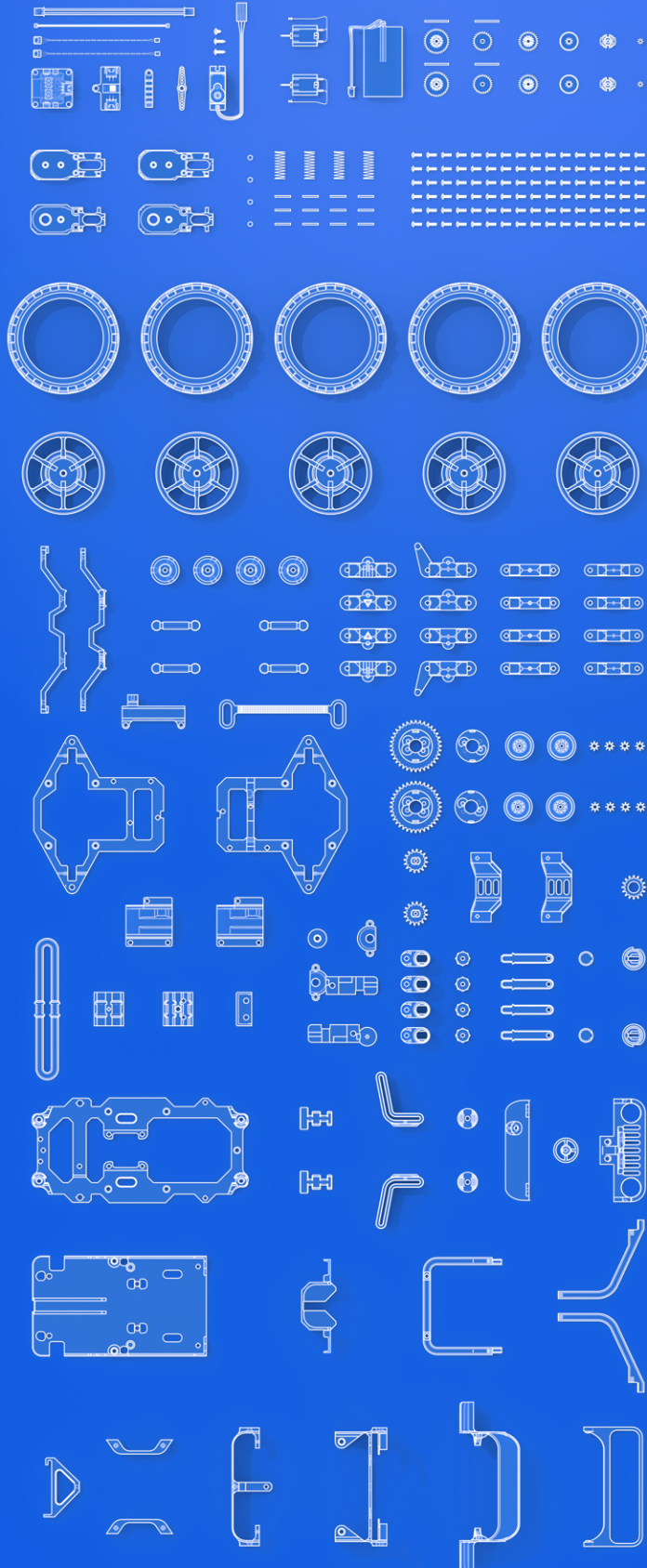
Before Start

Maker's Supply Parts Needed:

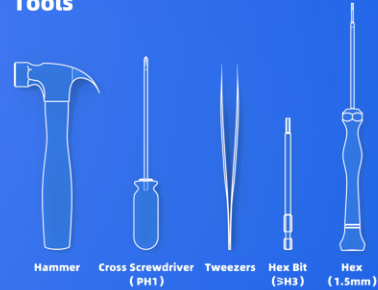
CyberBrick Hardware Kit - ZK003/ZK004

2x12mm Stainless Steel Dowel Pins(20PCS) -DA009

Parts



Tools

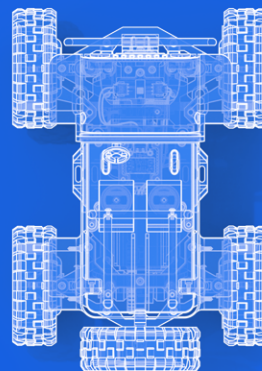


There are 95 M2.5 screws in this model, recommend using a high-quality Hex Screwdriver to do the job.

Recommend printing the Tires with TPU 90A, TPU95A is acceptable, but the grip is inferior to TPU90A.

Recommend printing Structure Parts with PLA-CF.

CyberBrick 4X4 Jeep



Recommend printing the Body with any filament you prefer.

14

Step Number

2x12mm Stainless Steel Dowel Pin x4

Maker's Supply Parts using in this step

14-1

Step Sequence

Release the button to remove the Upper Component, rotate the Front Hood

Step Introduction



M2.5 (BHCS)

x10

Screws using in this step

How to use it

14-2

Connect the Chassis with the Locomotion Component by the 4 Suspension Rod

Attention Mark



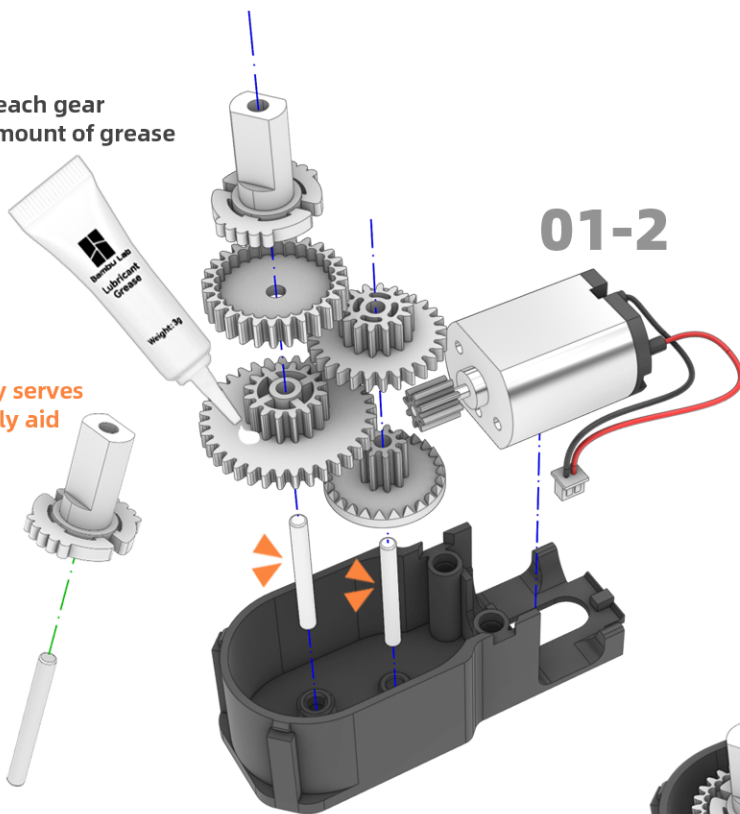
Assembly the other side in the same way

Attention Note

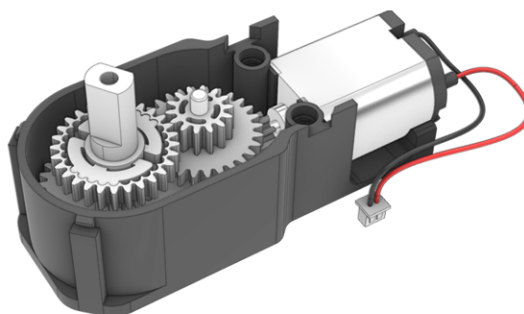
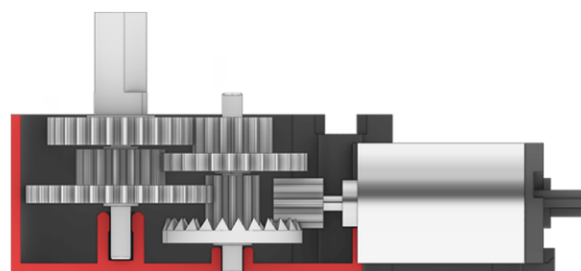
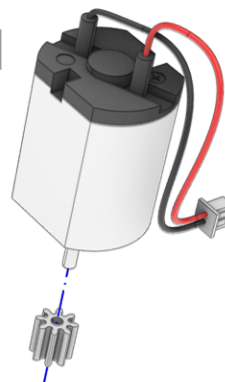
01

1:48 Single-axis Plastic Reduction Gear Kit x2
030 Micro DC Motor with SH1.0 x2

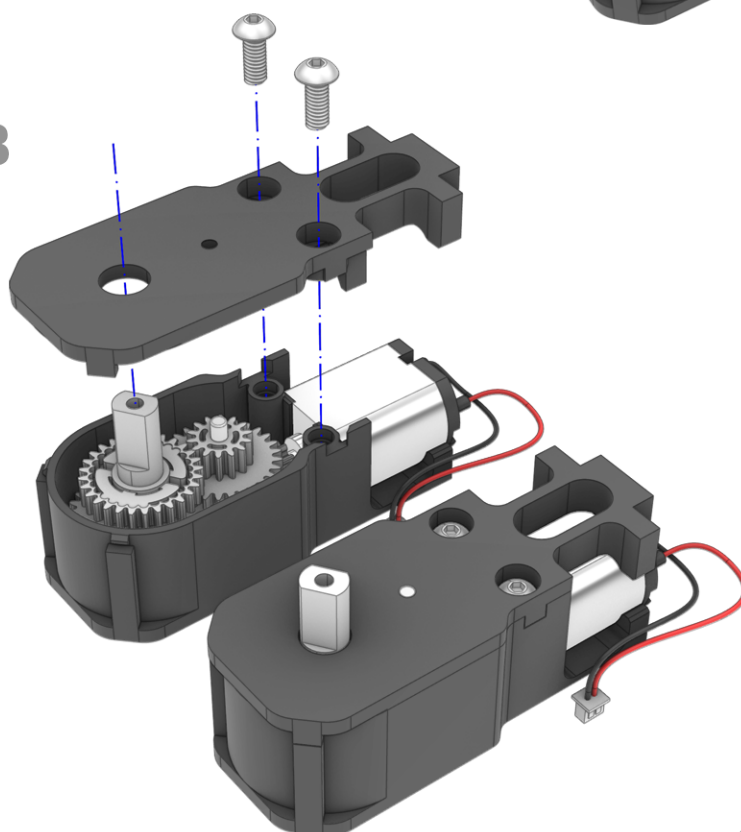
After installing each gear
apply a small amount of grease



01-1



01-3



M2.5 (BHCS)
x4

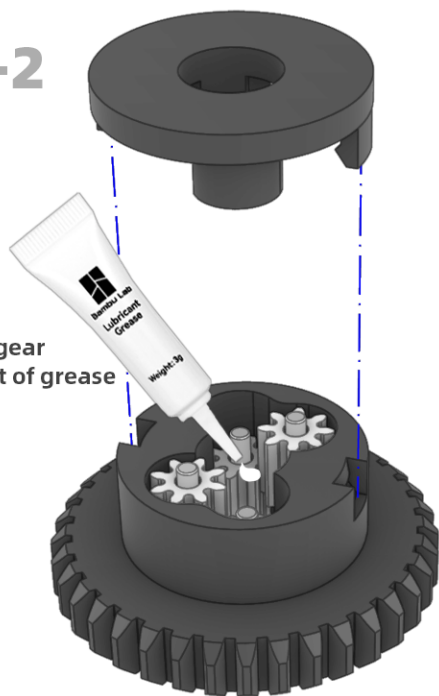
Reduction Gearbox
x2

02

2x12mm Stainless Steel Dowel Pin x8
0.6x8x20 mm Helical Compression Spring x4

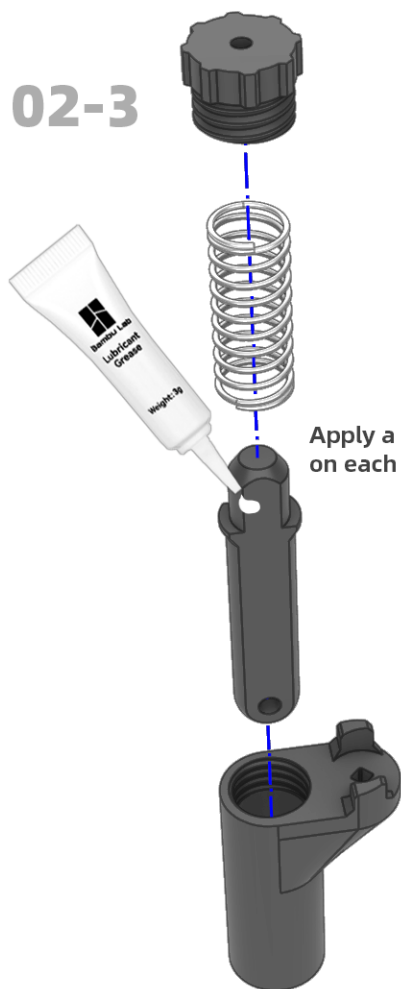
02-2

After installing each gear
apply a small amount of grease



02-3

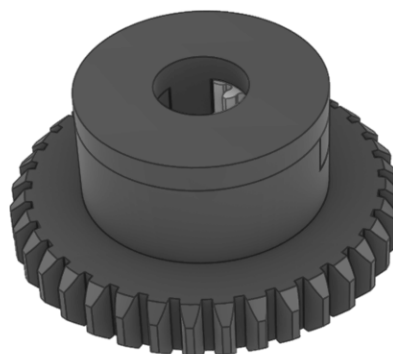
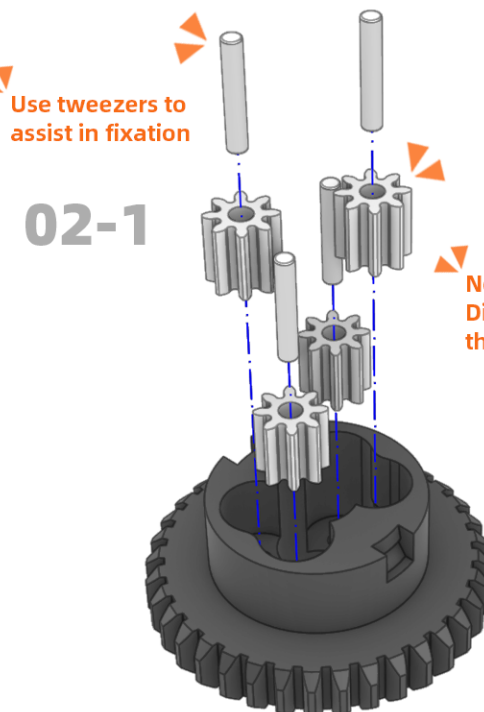
Apply a small amount of grease
on each suspension rod



02-1

Use tweezers to
assist in fixation

Not the gears in the Plastic
Differential Gear Kit, but
the printed gears



Differential Gearbox
x2



Suspension Rod Assembly
x4

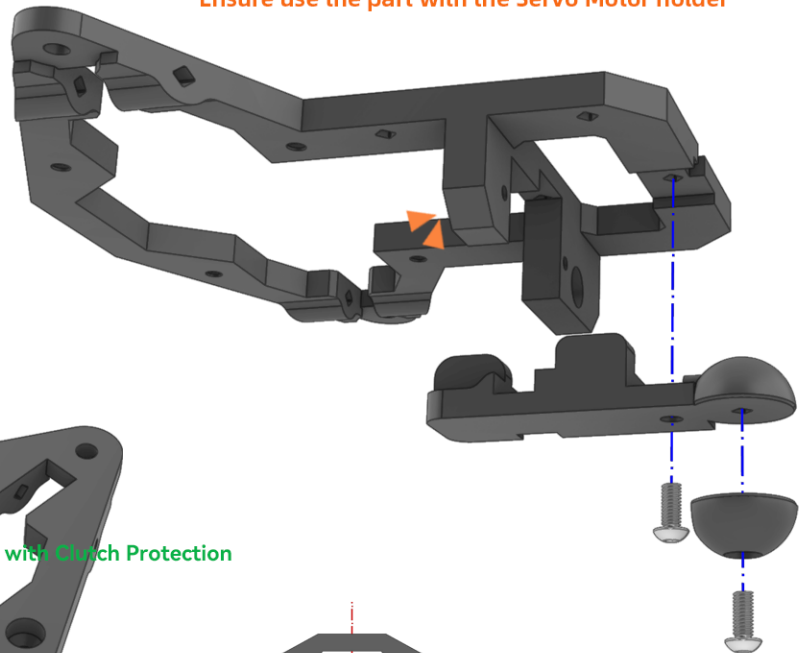
03

180° 9g Servo Motor with Clutch Protection X1

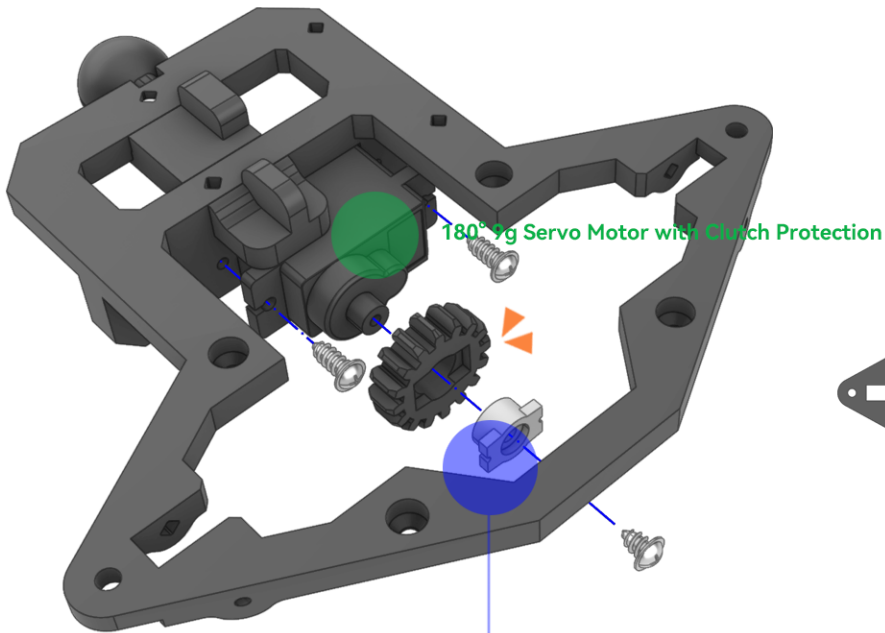
Be aware don't use the 360° Servo Motor, they looks all the same

03-1

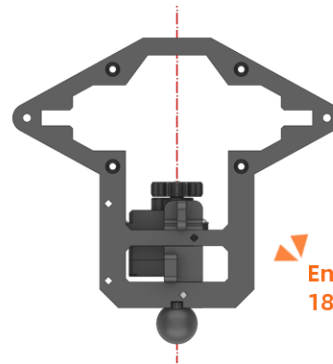
Ensure use the part with the Servo Motor holder



03-2

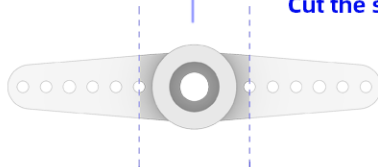


180° 9g Servo Motor with Clutch Protection



Ensure the gear of the 180° 9g Servo Motor is in the middle

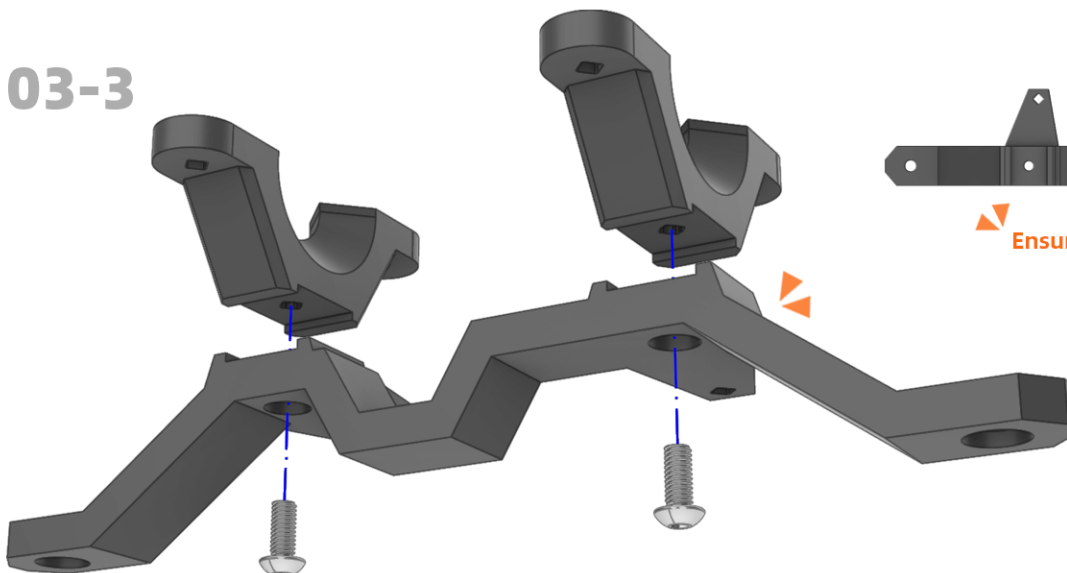
Cut the servo arm along the dashed lines



M2.5 (BHCS)
x4

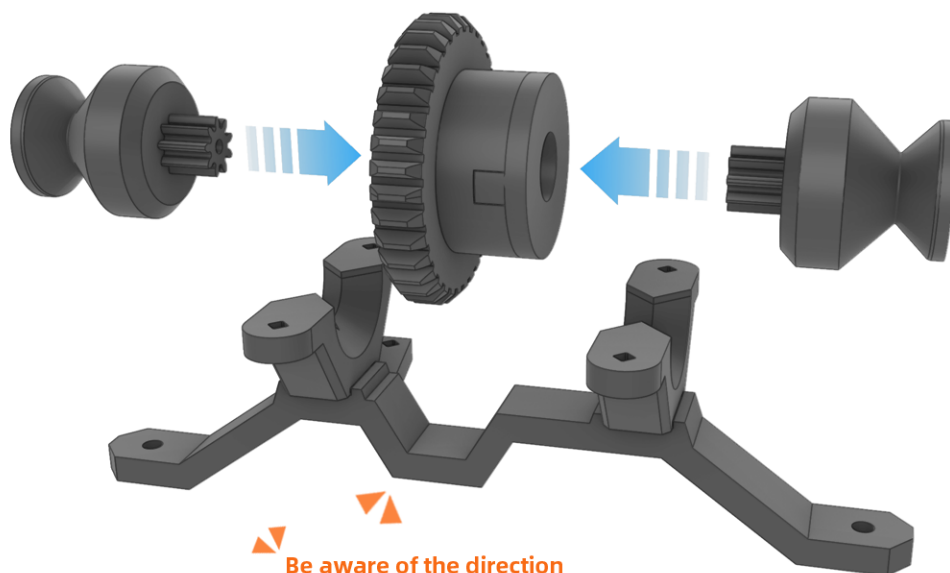


03-3



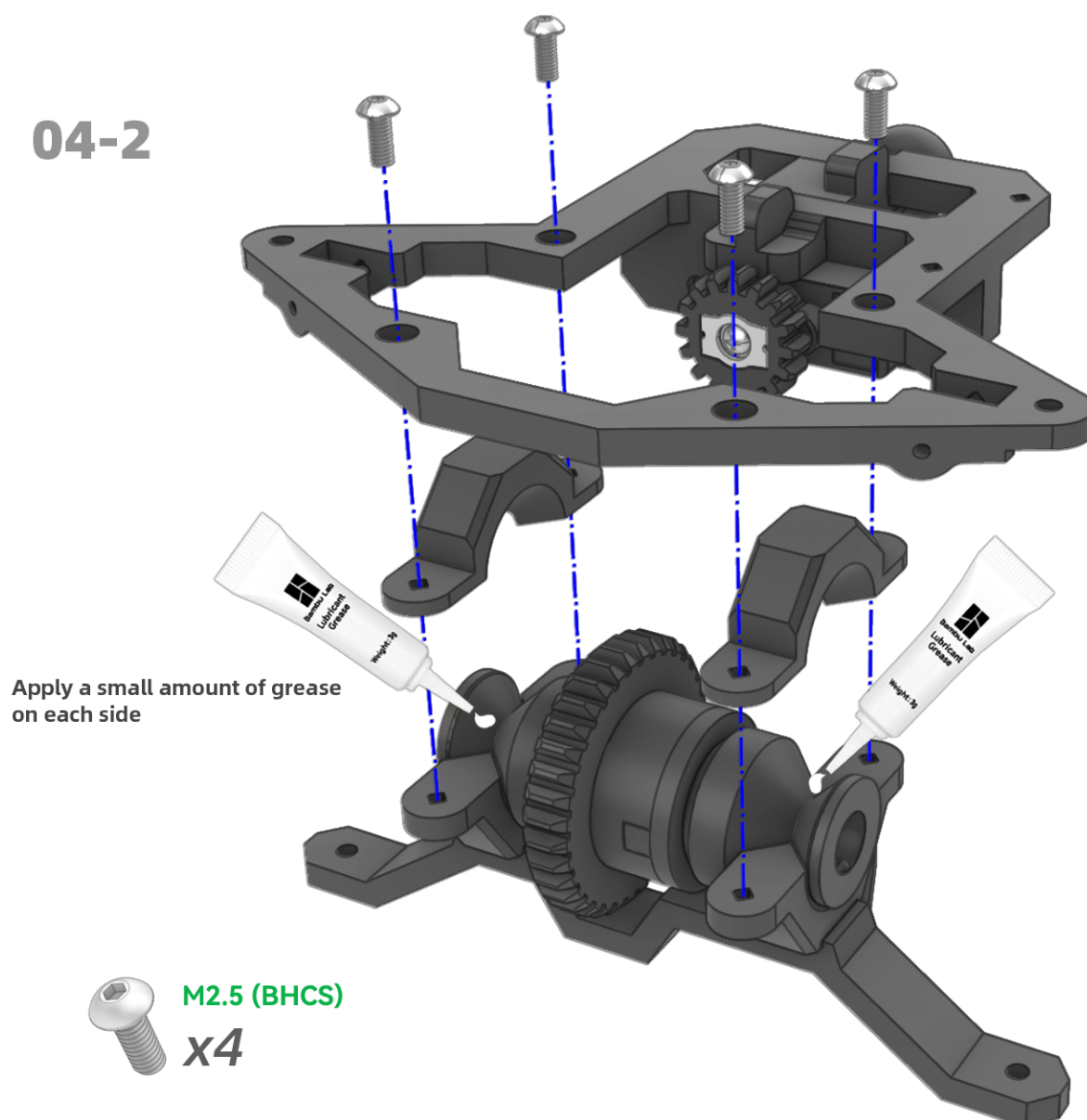
Ensure use this part

04



04-1

04-2



Apply a small amount of grease on each side

M2.5 (BHCS)
x4

05

05-1

M2.5 (BHCS)
x8

Apply a small amount of grease in the ball socket

Assemble the other side in the same way

Ensure the groove of the transmission shaft ball joint inserts into the bulge of the ball socket

Apply a small amount of grease in the ball socket

Apply a small amount of grease in the gap

05-2

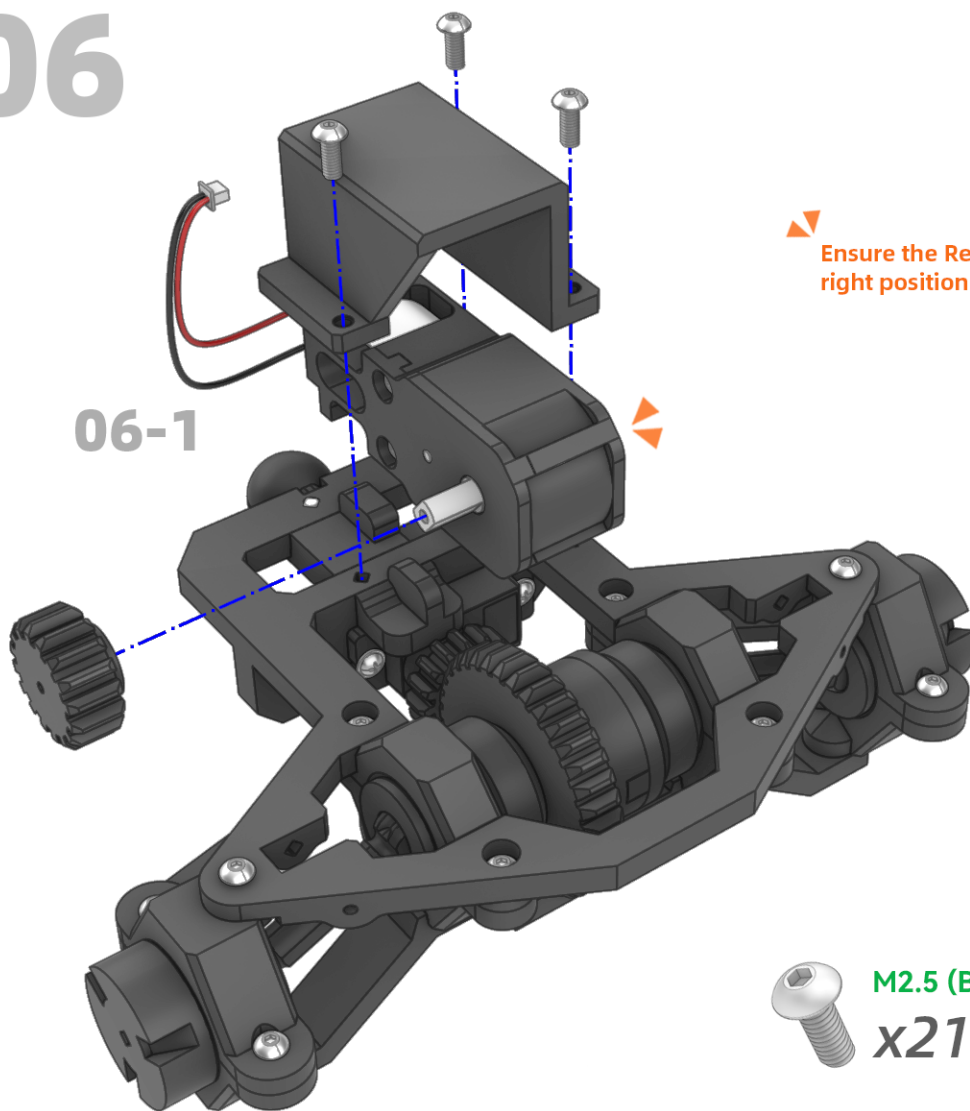
Be aware of the direction of the part

05-3

Assemble the other side in the same way

Do not screw too tight

06



06-1



Ensure the Reduction Gearbox is in the right position as the image shows



M2.5 (BHCS)

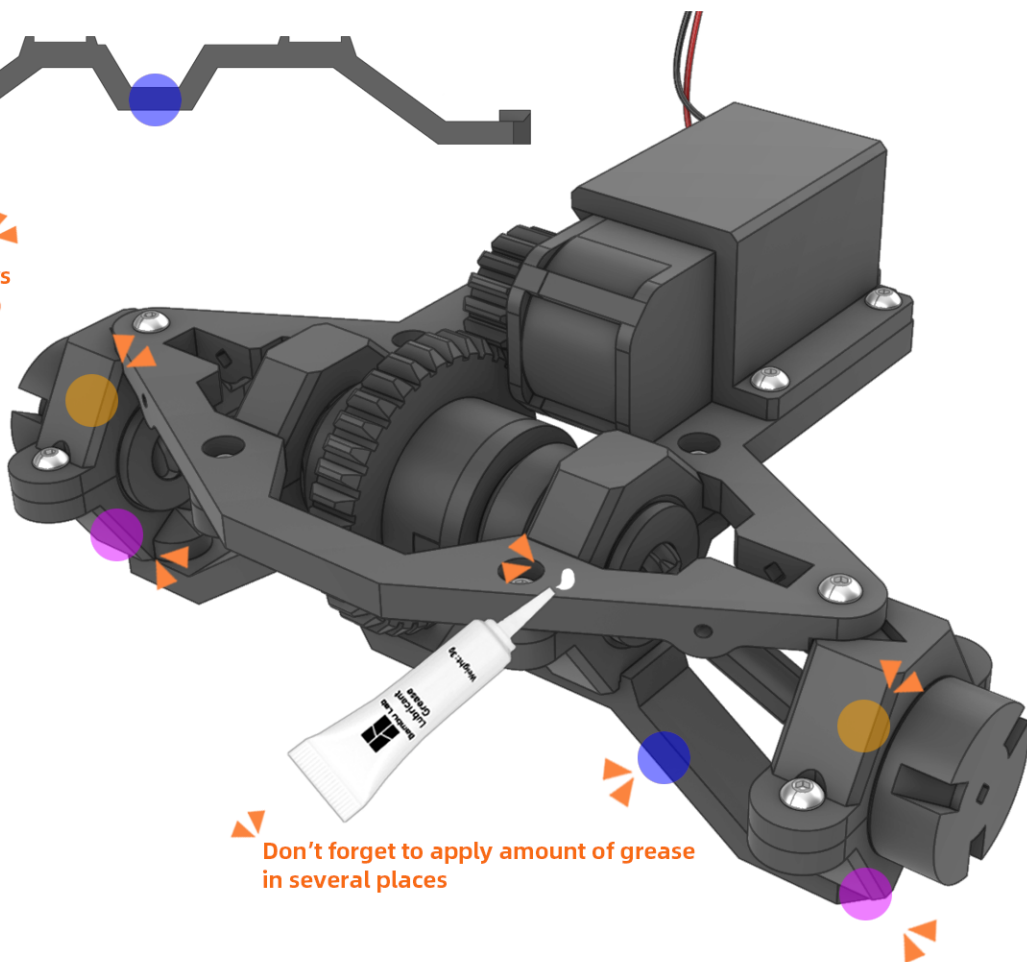
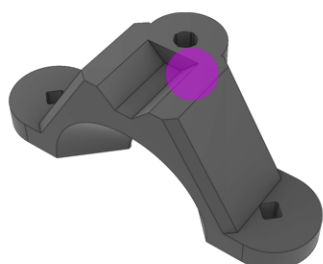
x21

06-2



Assemble the Rear Assembly in the same way

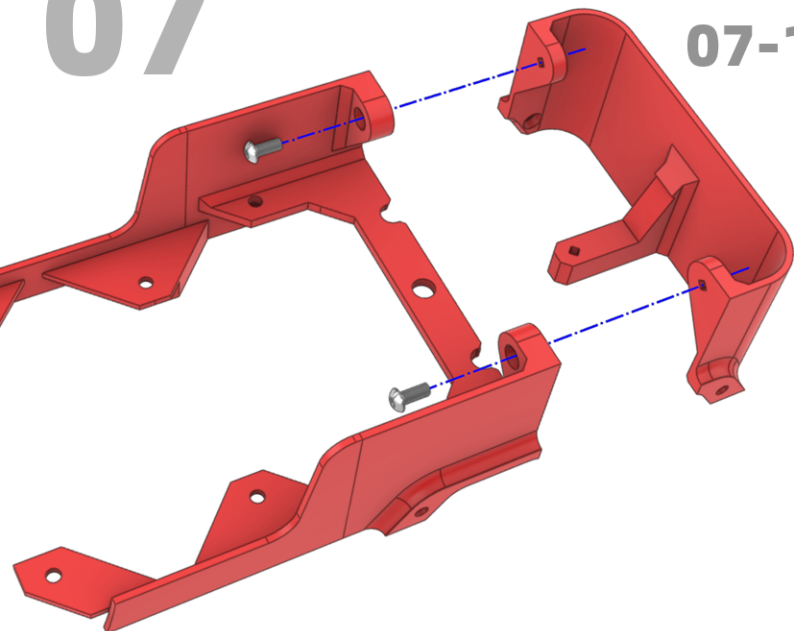
Be aware of the different parts using in this step, and all screws should be tightened in this step



Don't forget to apply amount of grease in several places

07

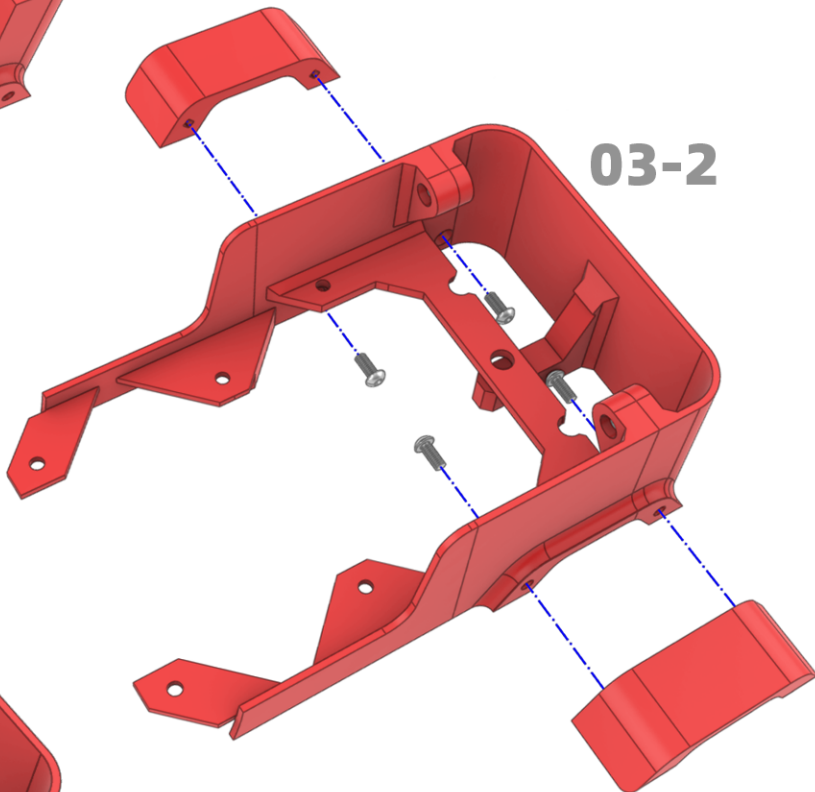
07-1



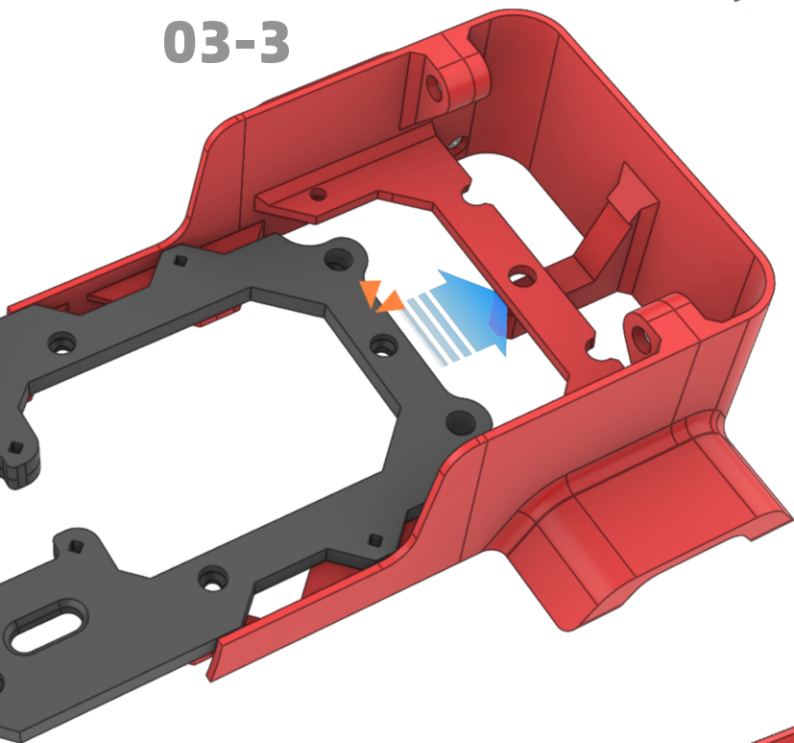
M2.5 (BHCS)

x9

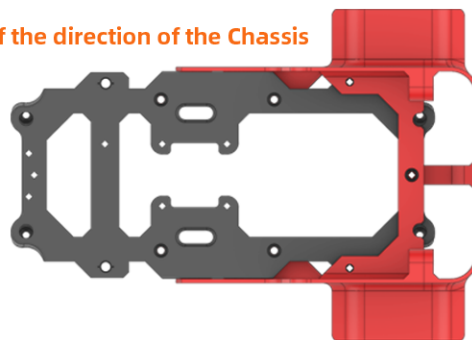
03-2



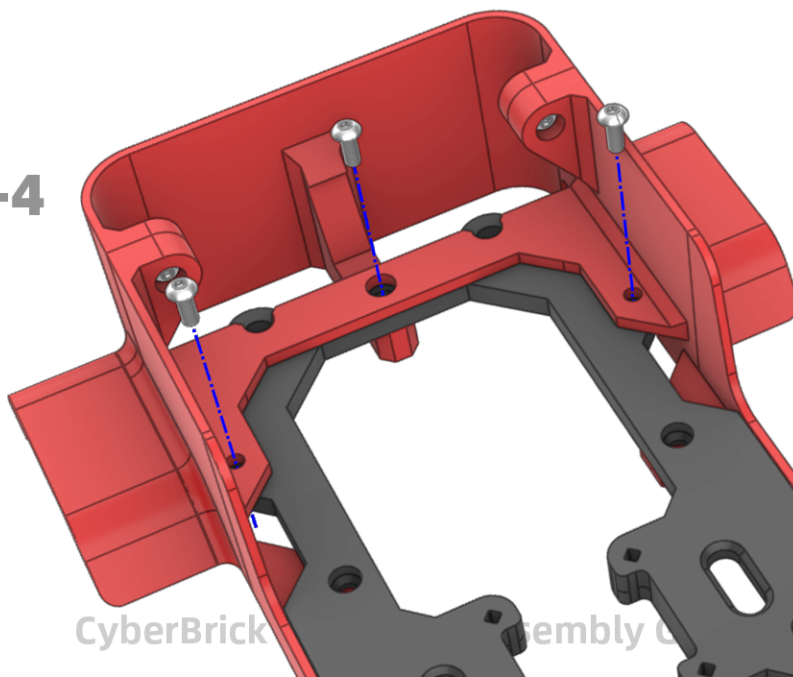
03-3



Be aware of the direction of the Chassis



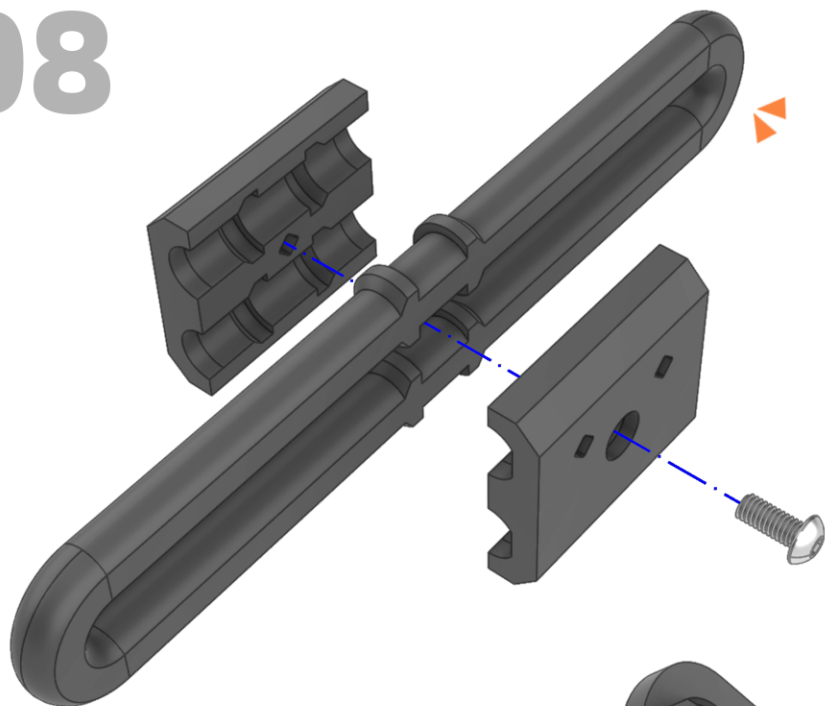
03-4



08

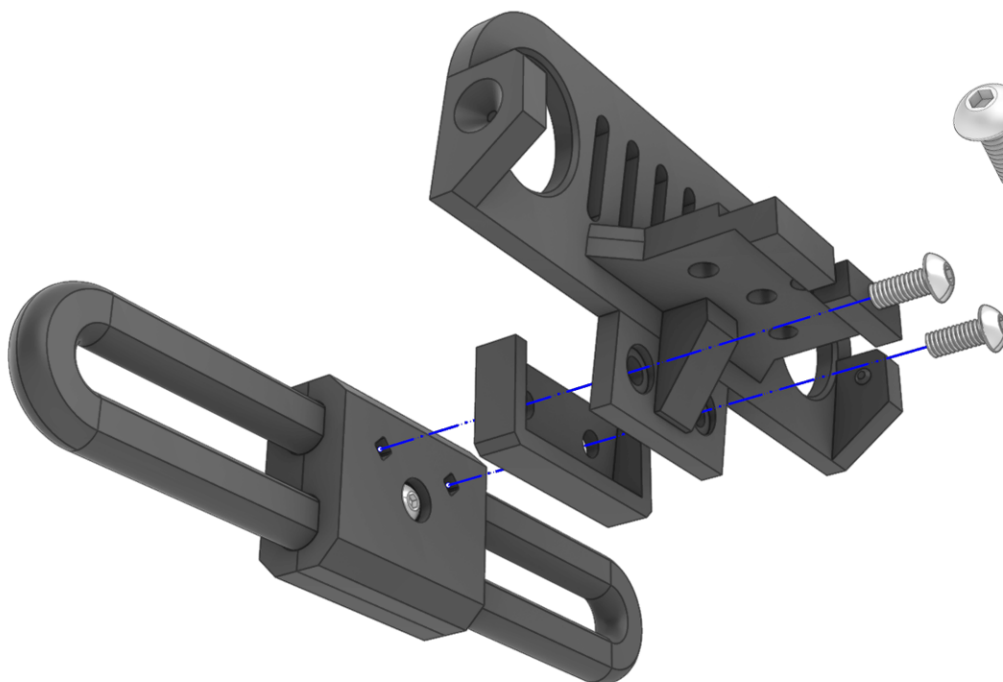
08-1

Be aware of the direction of the flat surface



M2.5 (BHCS)
x5

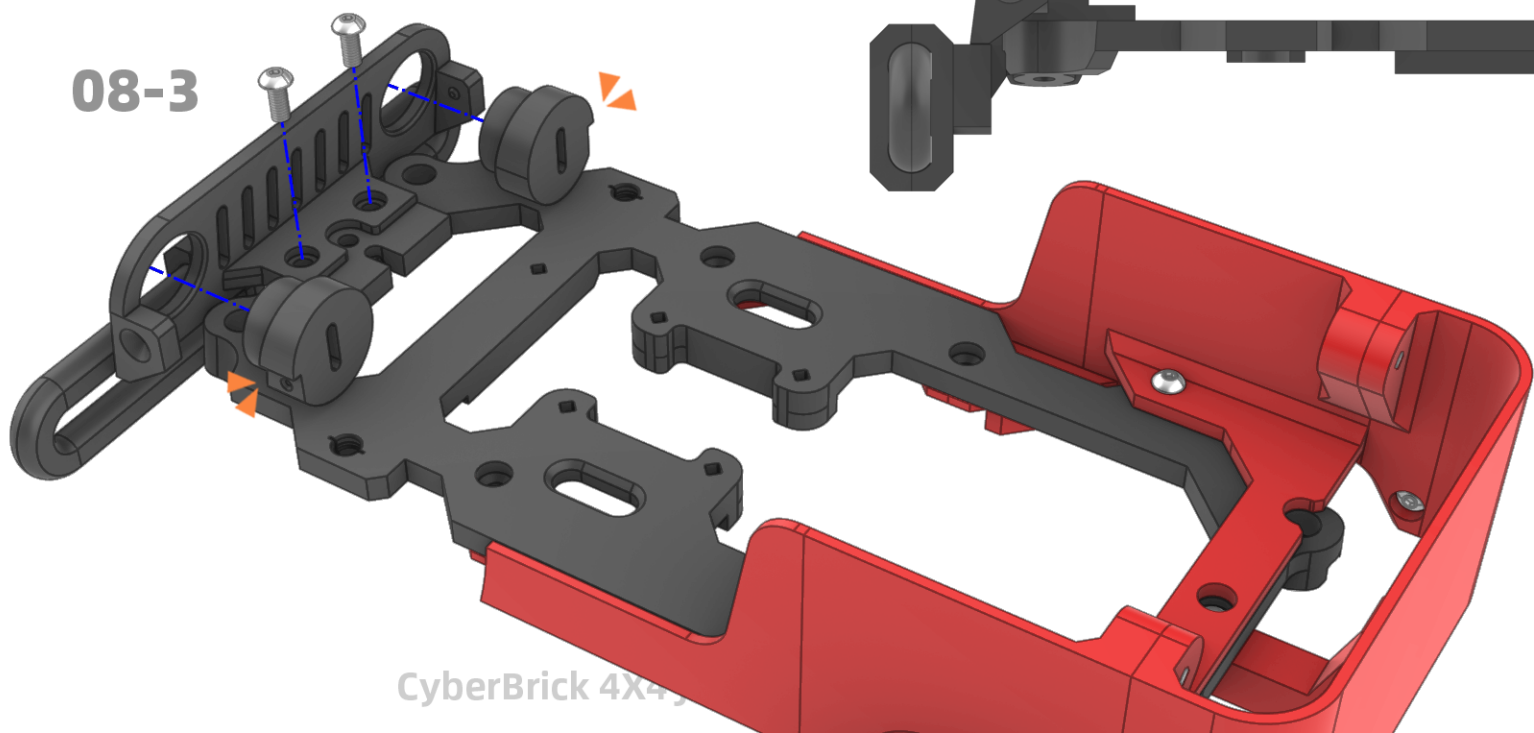
08-2



Ensure the lights holder parts
in the right position



08-3



09

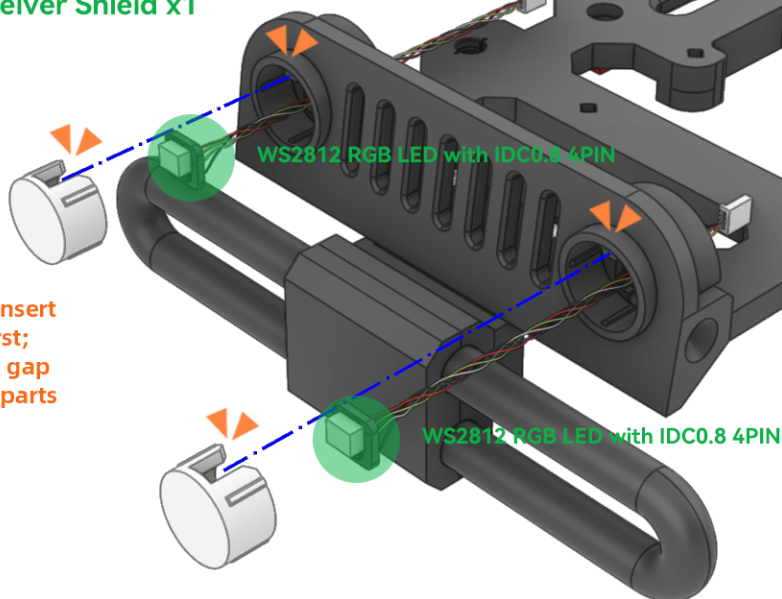
WS2812 LED Hub with 3Pin SH1.0 Connector x1

WS2812 RGB LED with IDC0.8 4PIN x2

Remote Control Receiver Shield x1

09-1

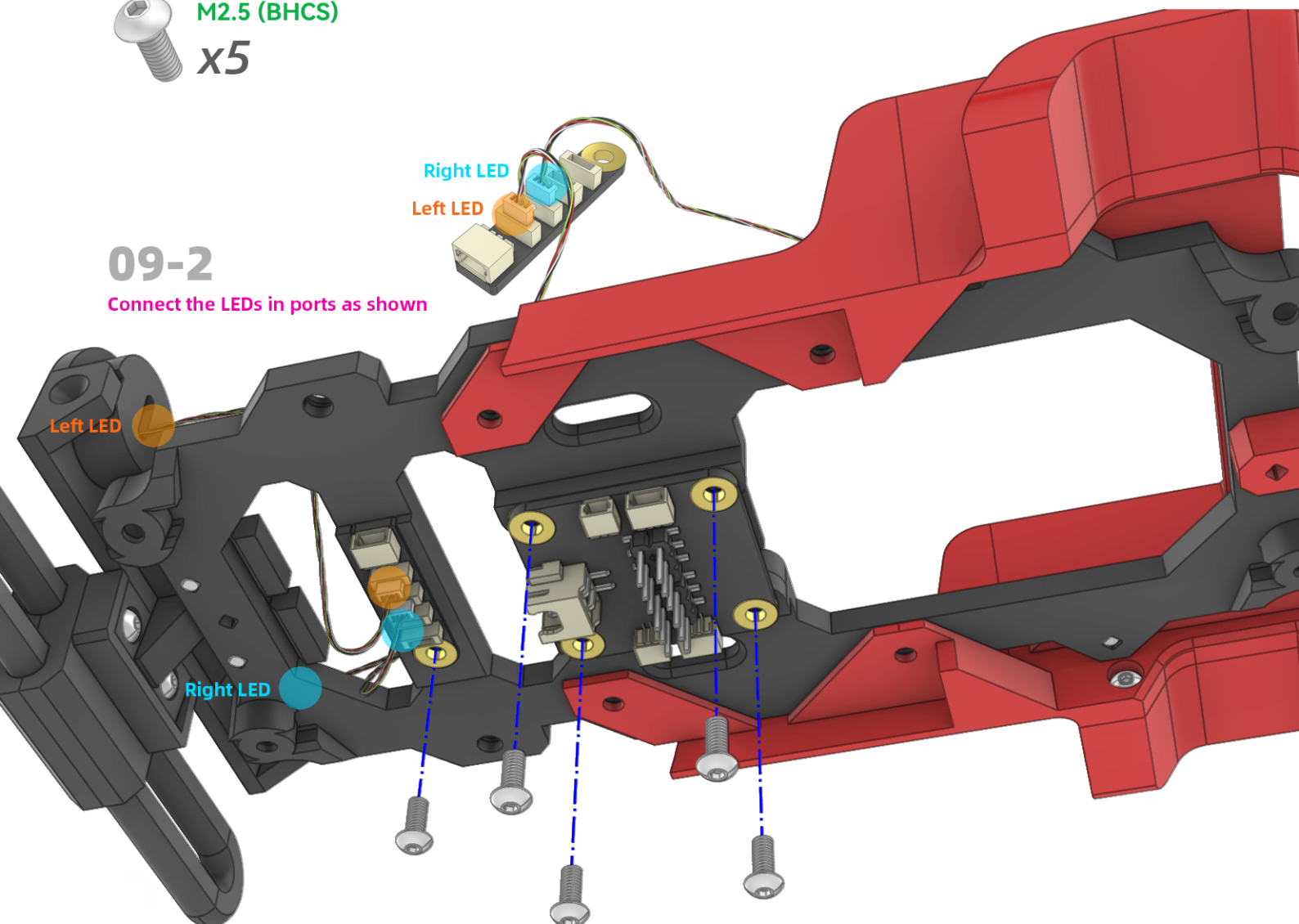
Don't forget to insert the LED parts first;
Be aware of the gap direction of the parts



M2.5 (BHCS)
x5

09-2

Connect the LEDs in ports as shown

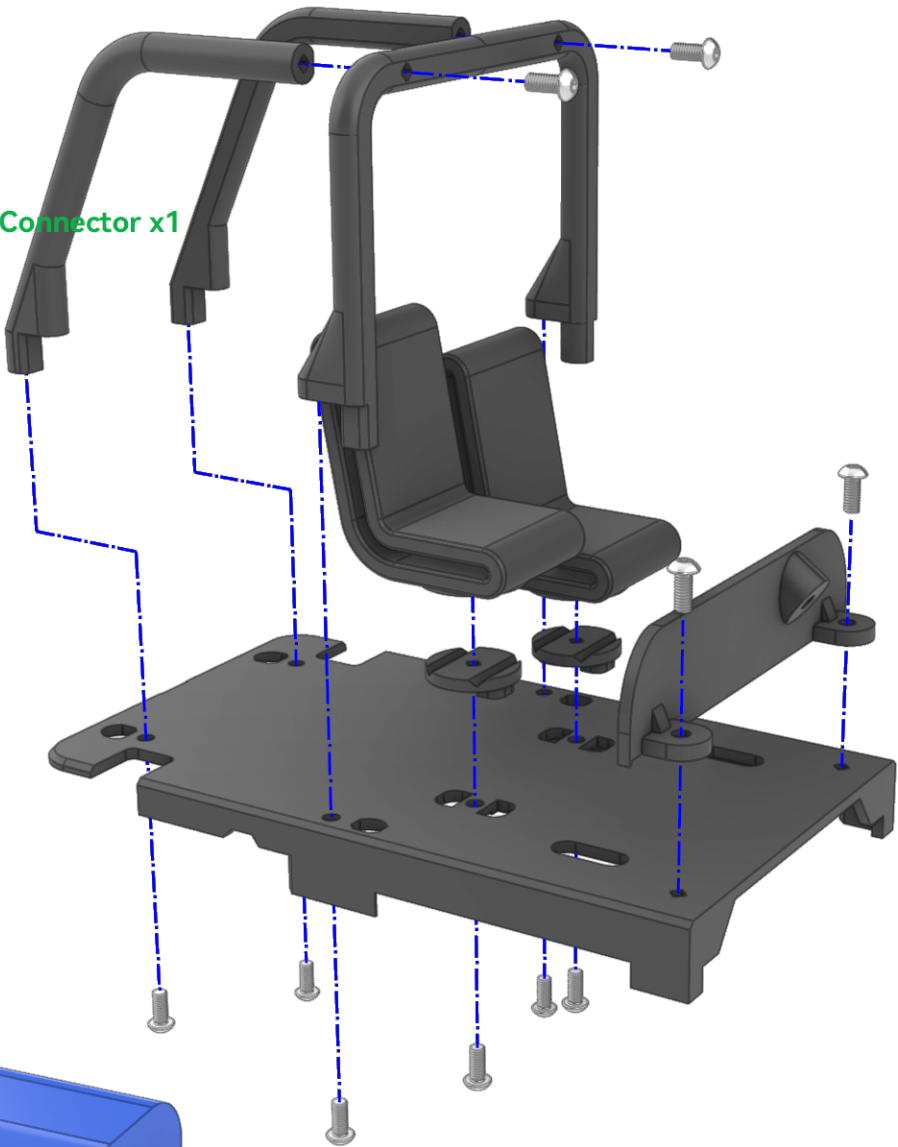


10

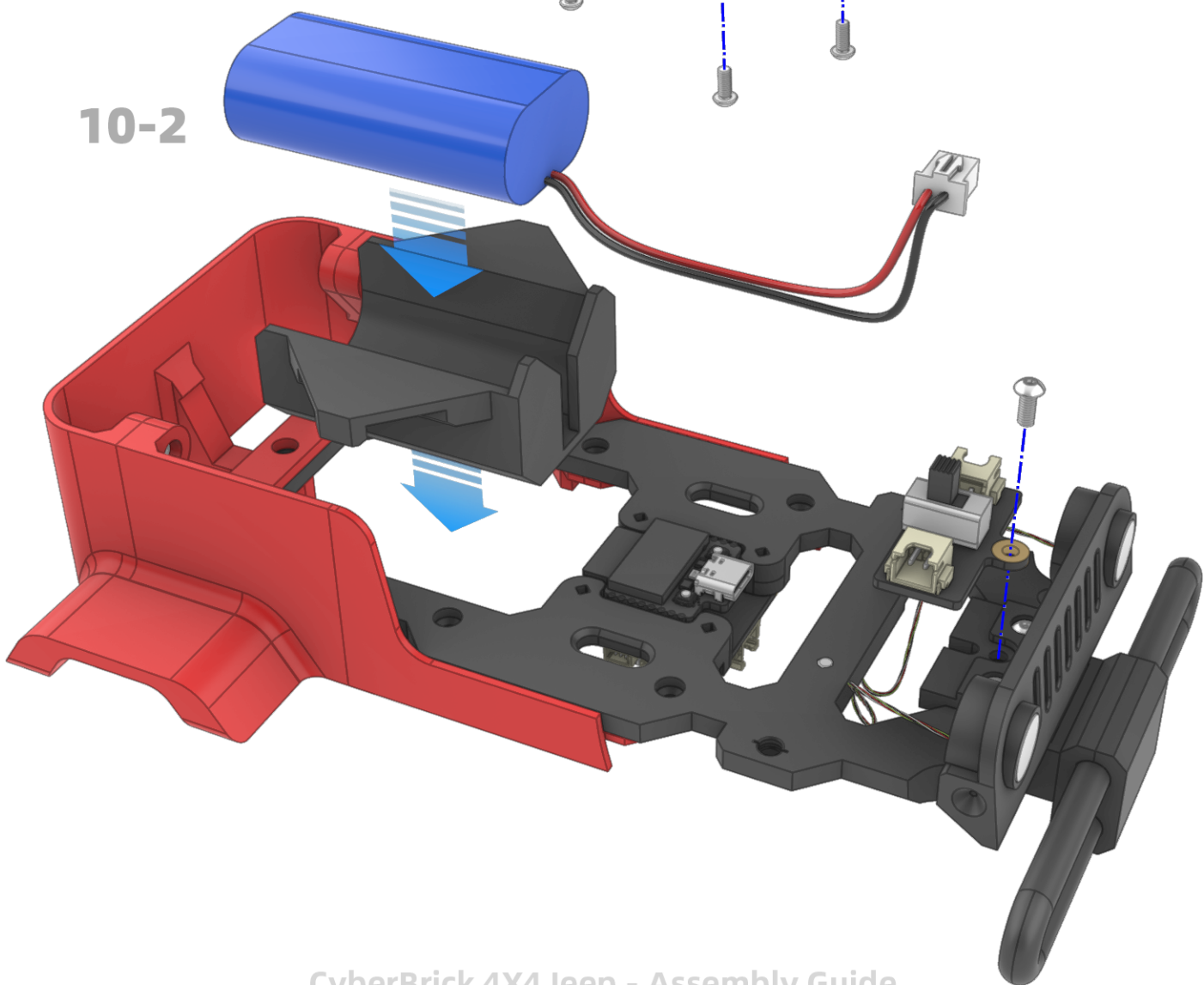
14500 7.4V 800mAh Li-ion Battery x1
Power Switch Module with 2Pin XH2.54 Connector x1

10-1

M2.5 (BHCS)
x11

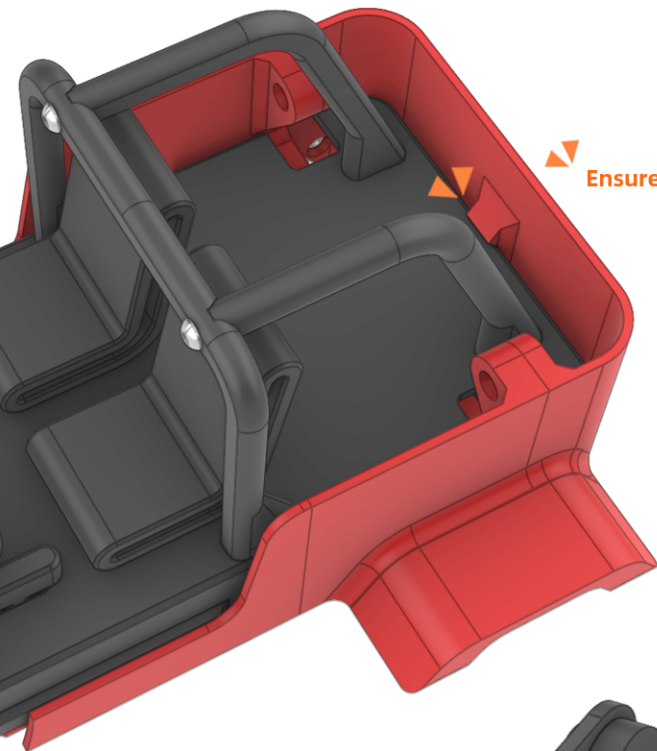
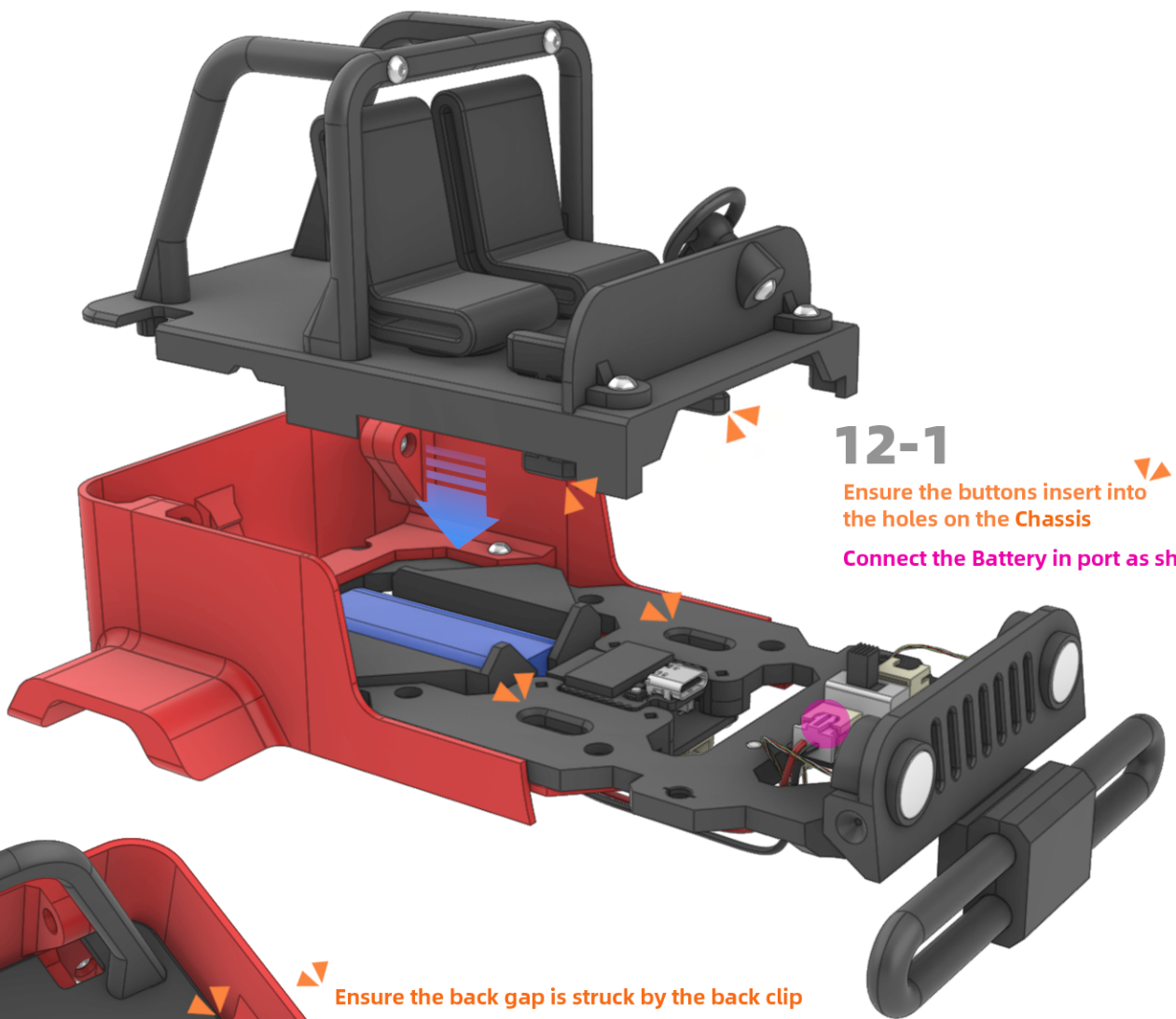


10-2



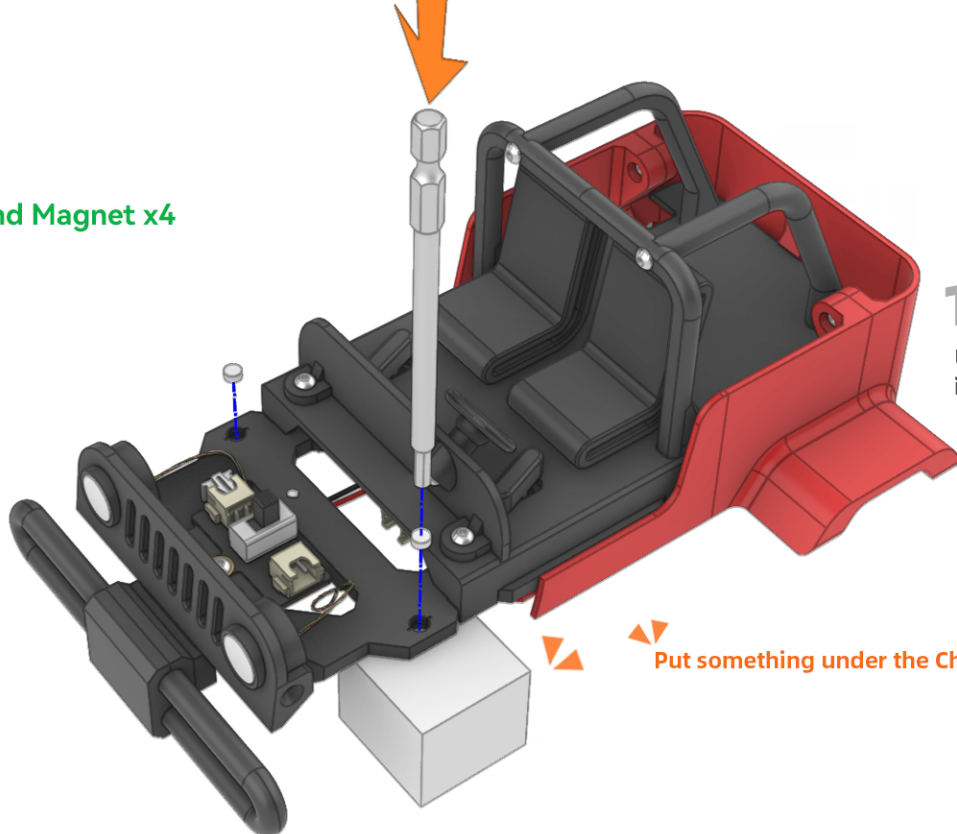


12



13

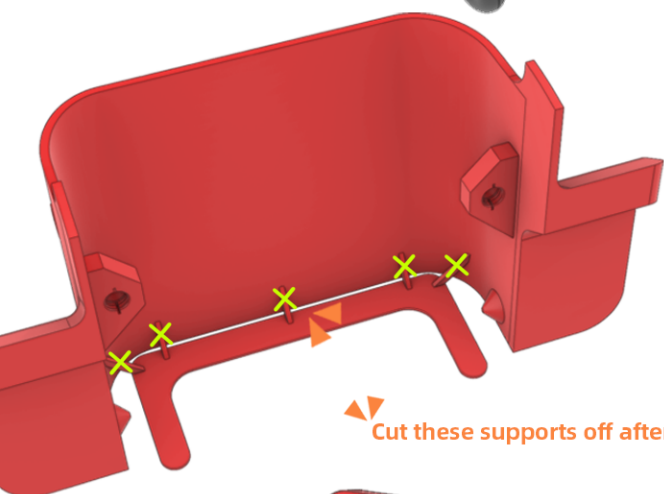
4x2mm Round Magnet x4



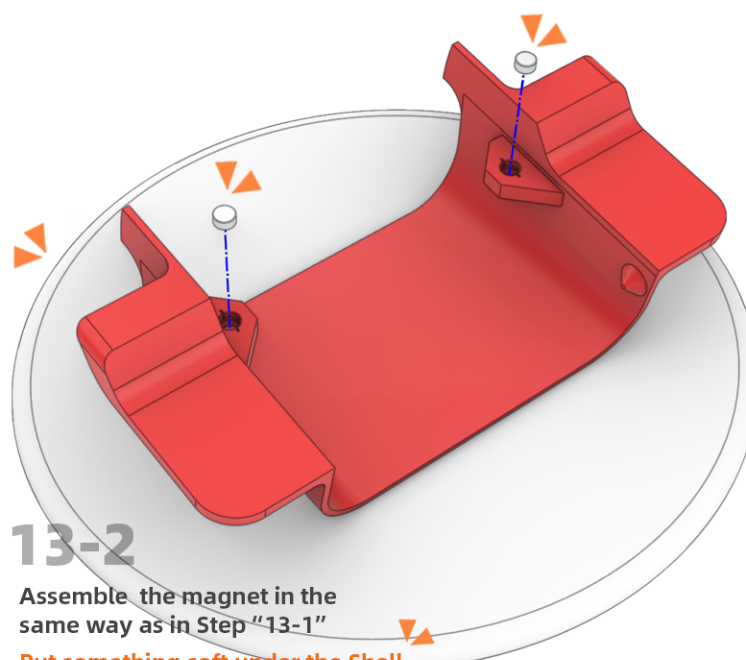
13-1

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

Put something under the Chassis to hold it



Cut these supports off after printing



13-2

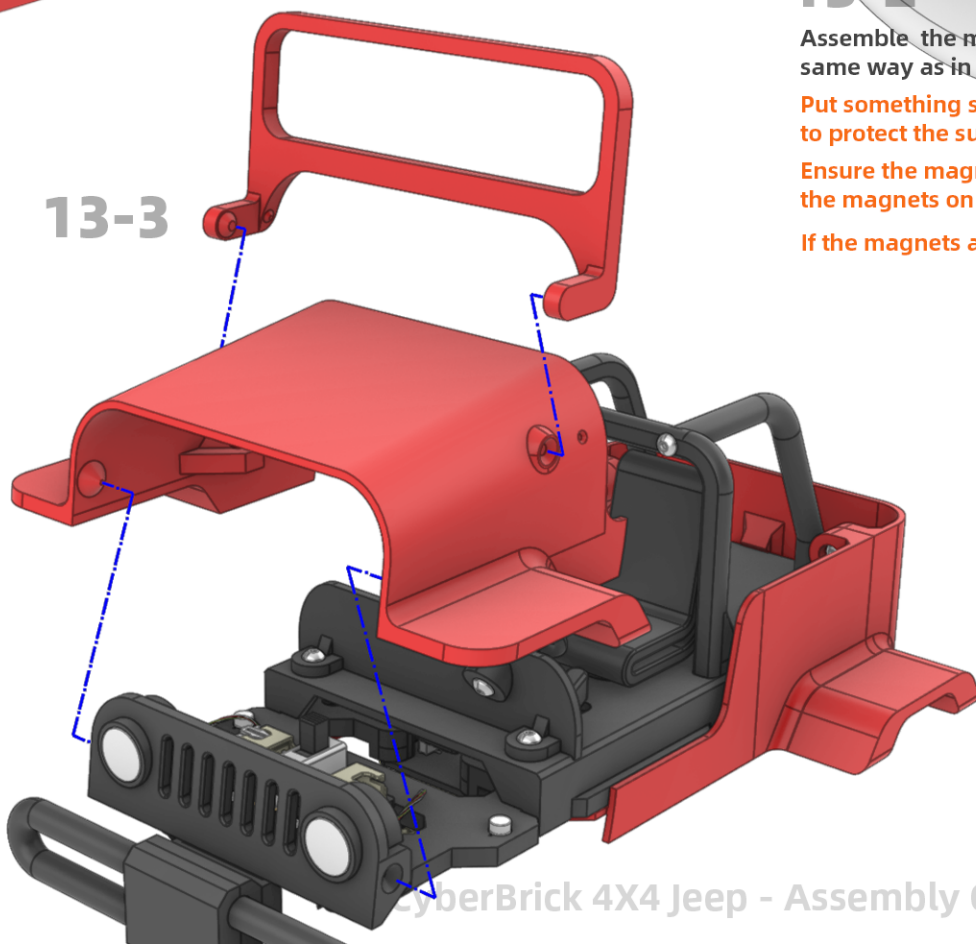
Assemble the magnet in the same way as in Step "13-1"

Put something soft under the Shell to protect the surface

Ensure the magnets can attract with the magnets on the Chassis

If the magnets are loose, you can use superglue

13-3



14

2x12mm Stainless Steel Dowel Pin x4

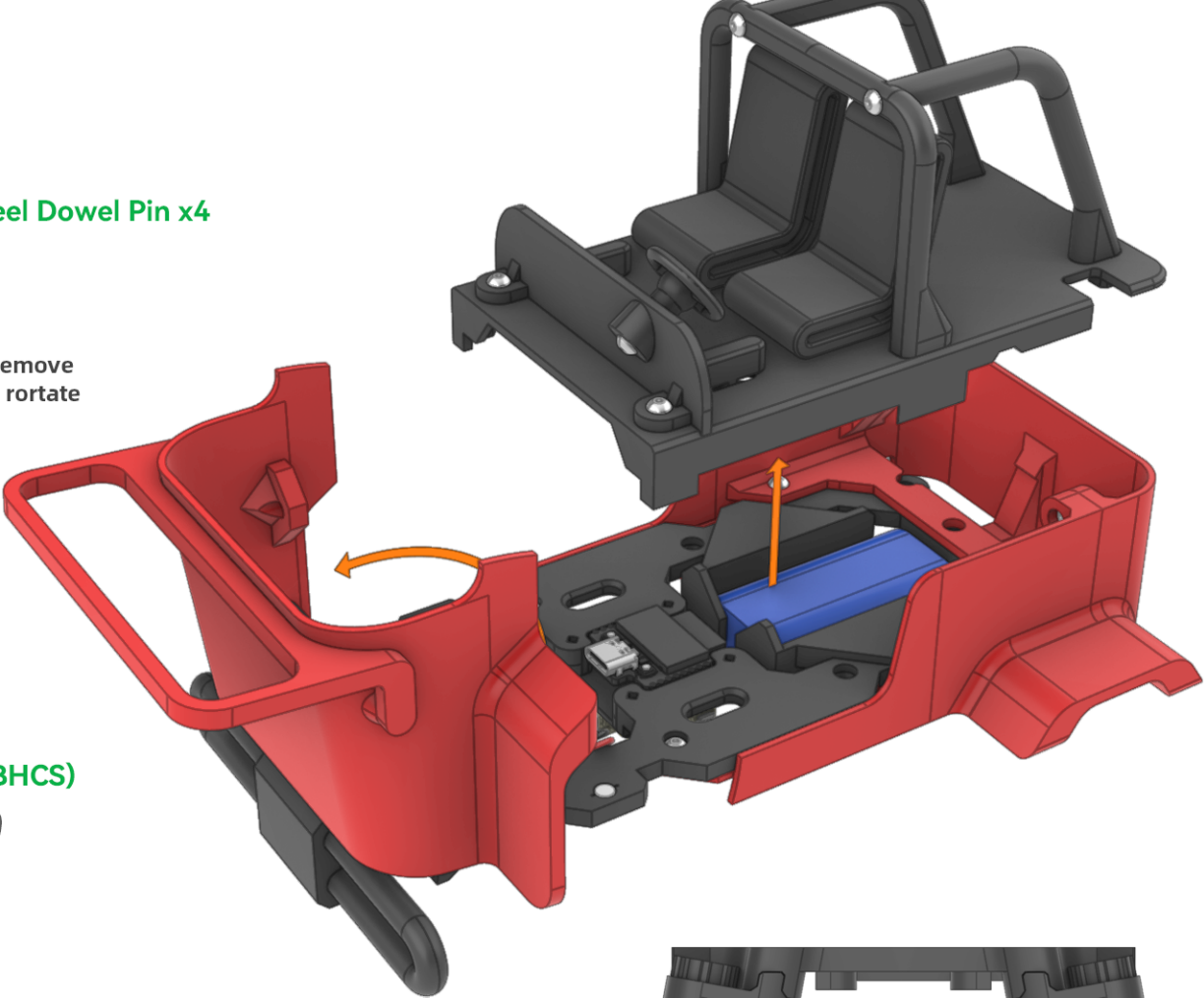
14-1

Release the button to remove the Upper Component, rotate the Front Hood



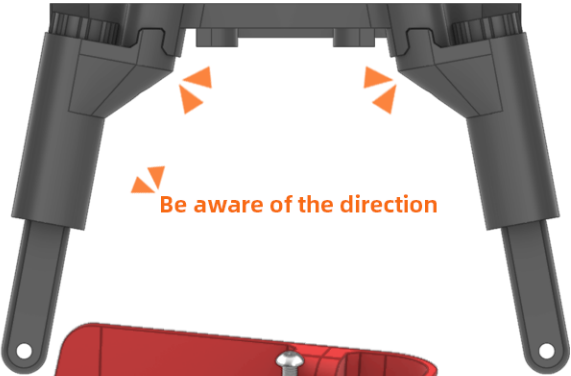
M2.5 (BHCS)

x10

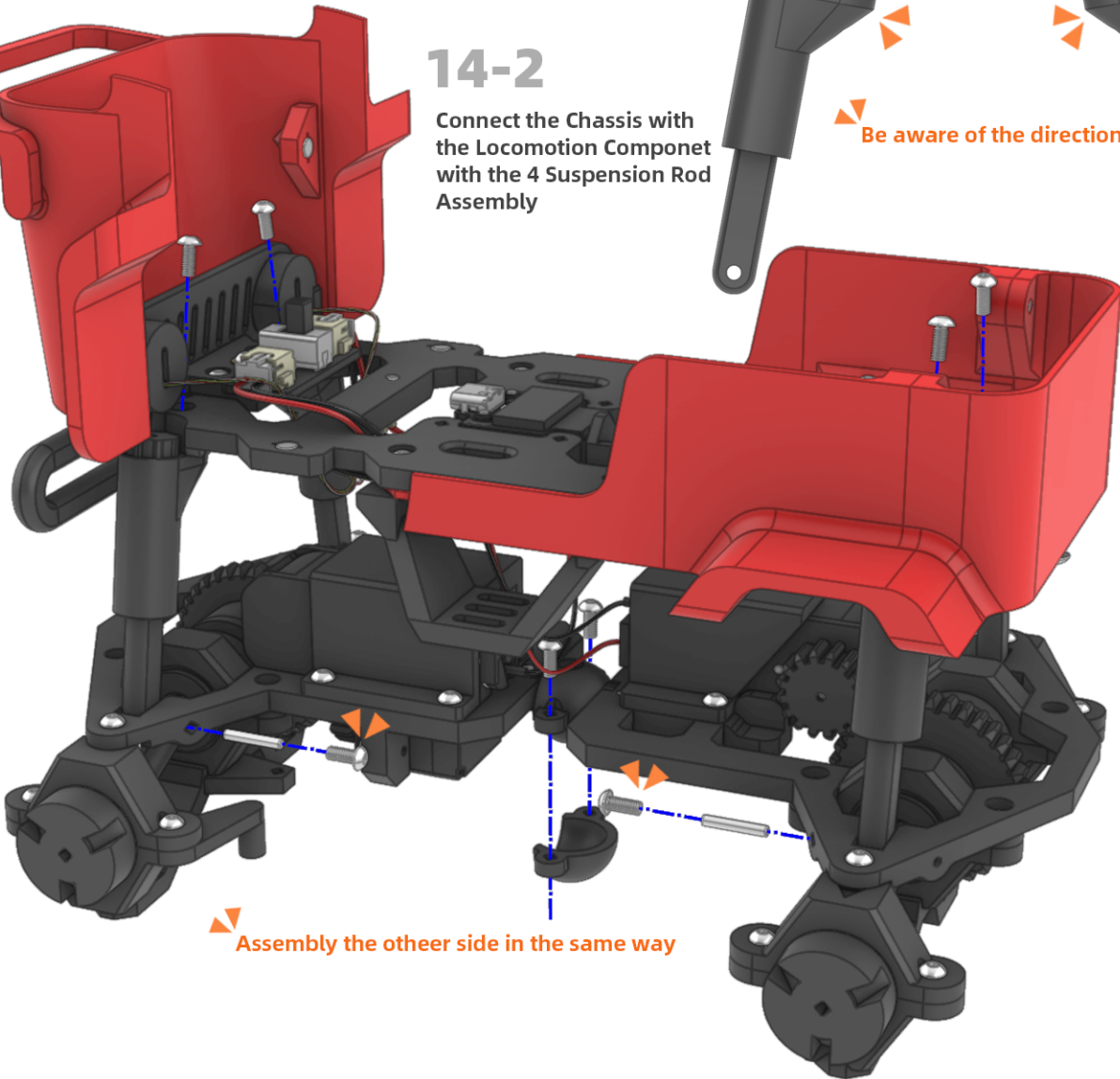


14-2

Connect the Chassis with the Locomotion Component with the 4 Suspension Rod Assembly



Assembly the other side in the same way



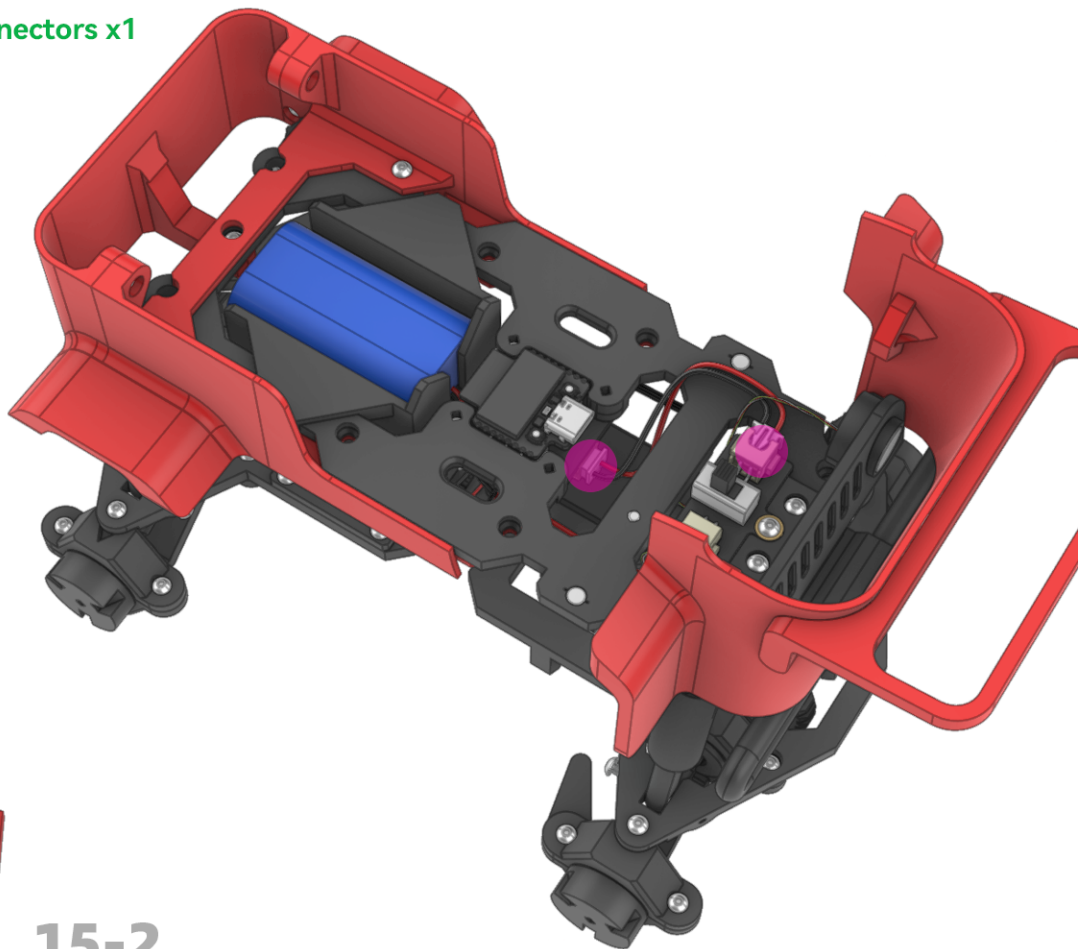
15

100mm Wire with 2Pin XH2.54 Connectors x1

100mm Wire with 3Pin SH1.0 Connectors x1

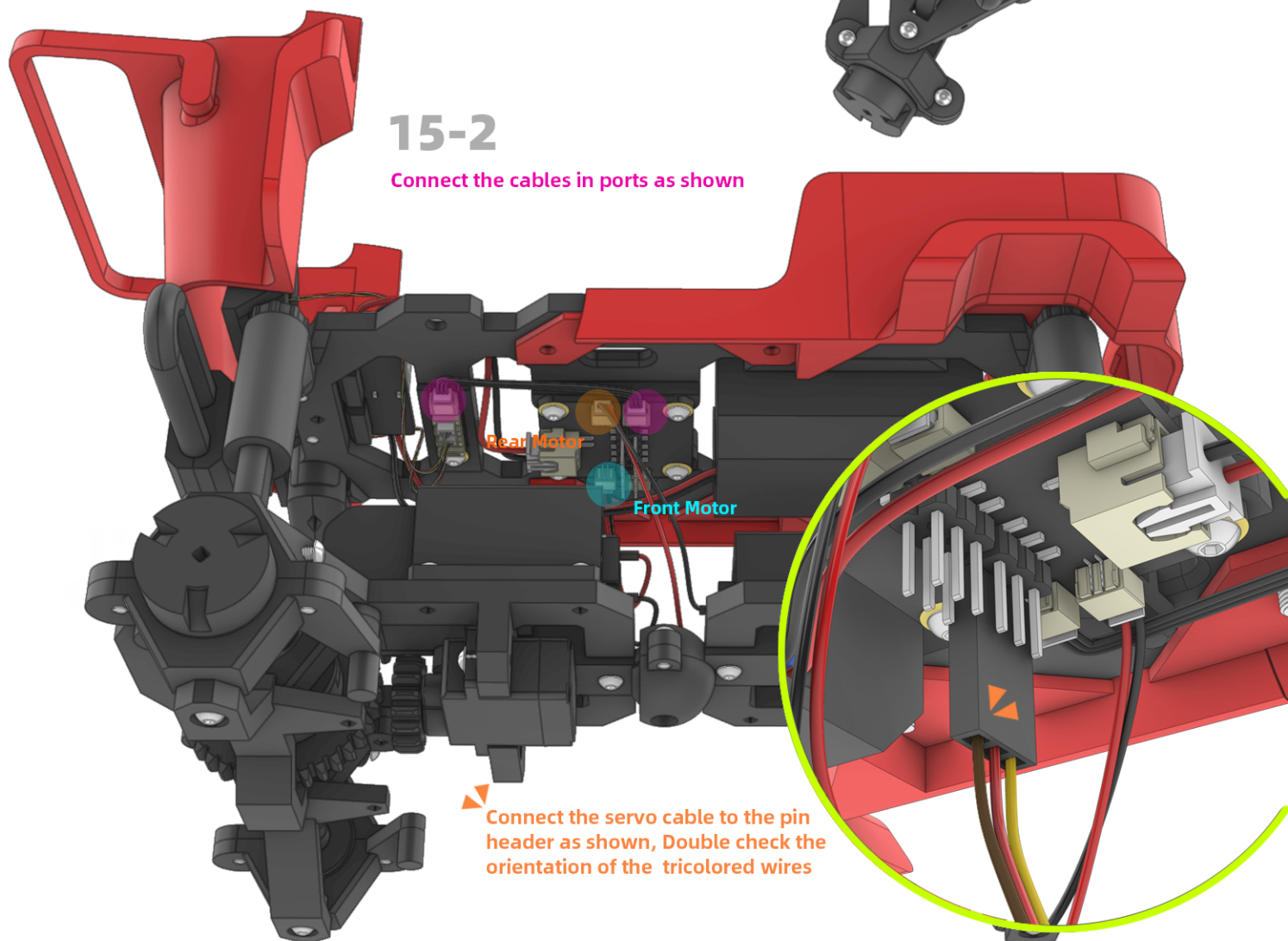
15-1

Connect the cable in ports as shown



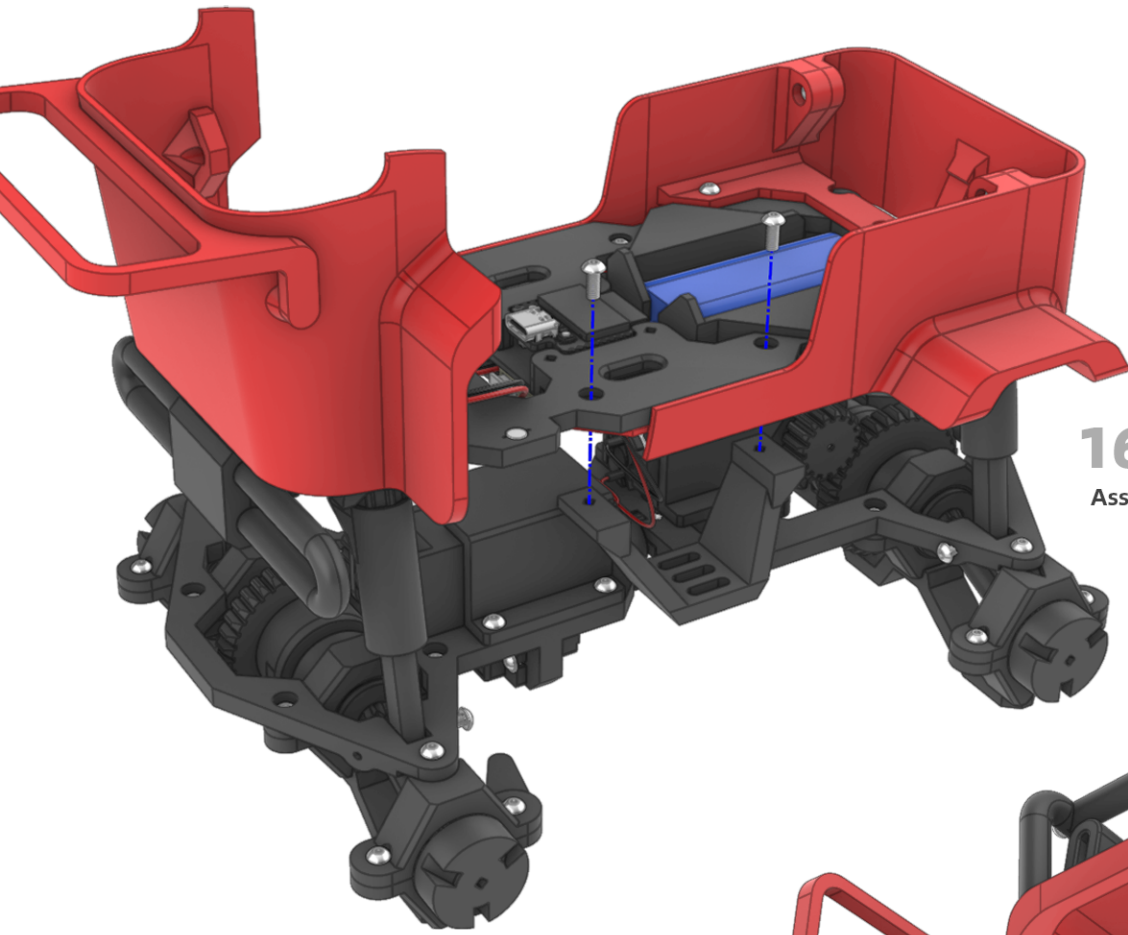
15-2

Connect the cables in ports as shown



16

Ensure all the cables are in position, power on, connect app and send the Config Framework;
Test all functions work well, then do this step!



16-1

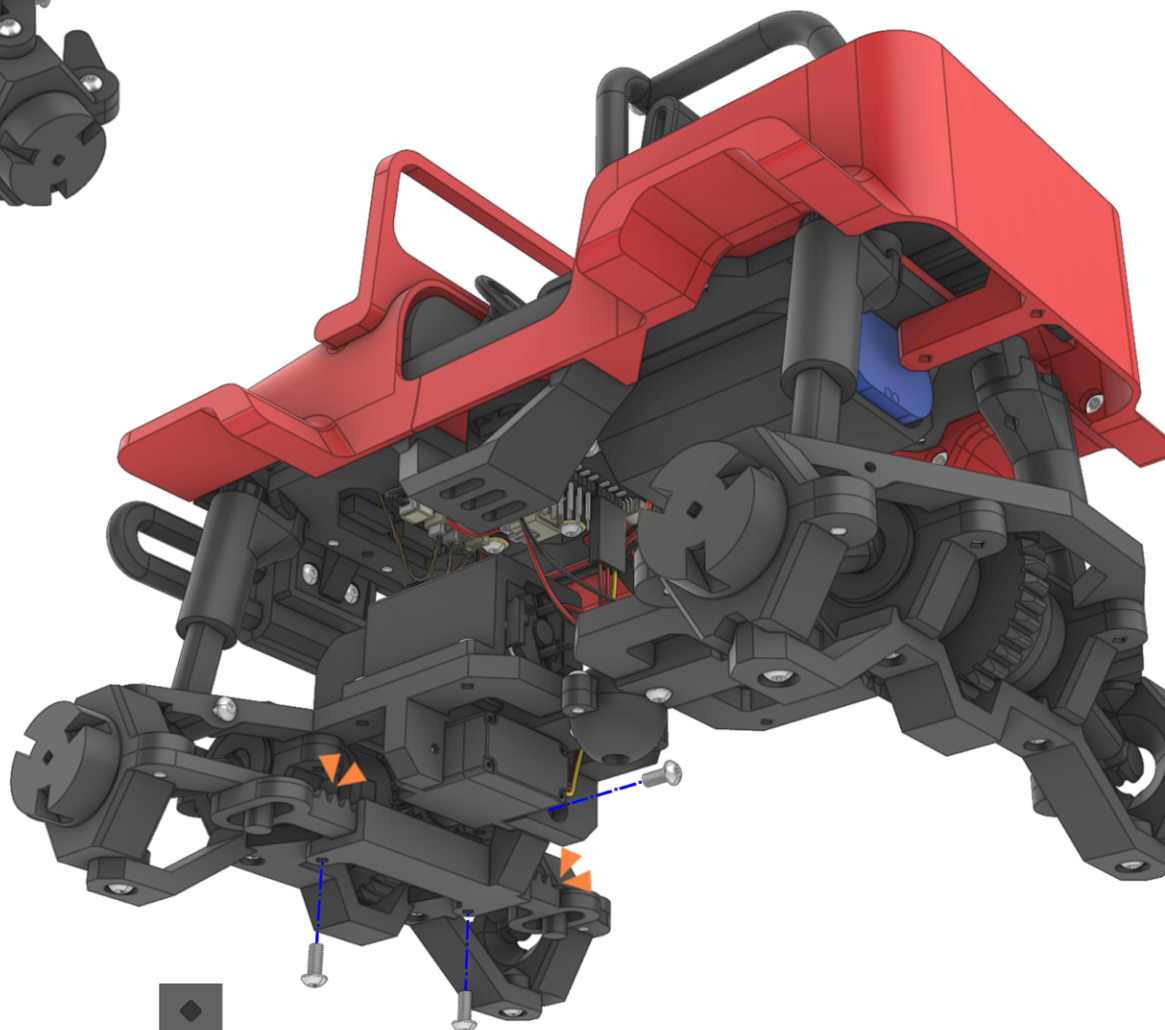
Assembly the other side in the same way



M2.5 (BHCS)

x7

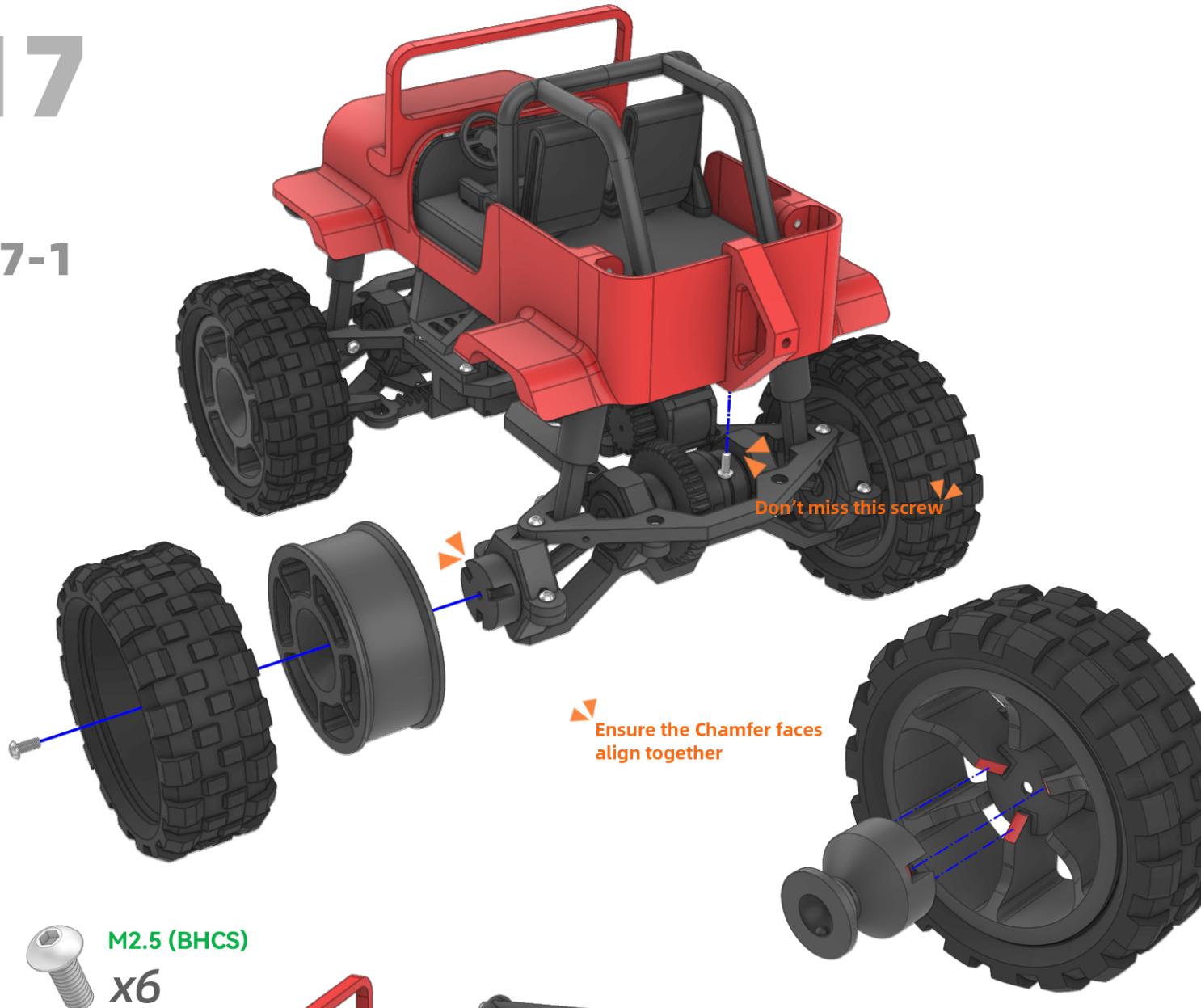
16-2



Ensure the Rack is in the middle when power on the
Servo Motor (3 teeth outside on each side)

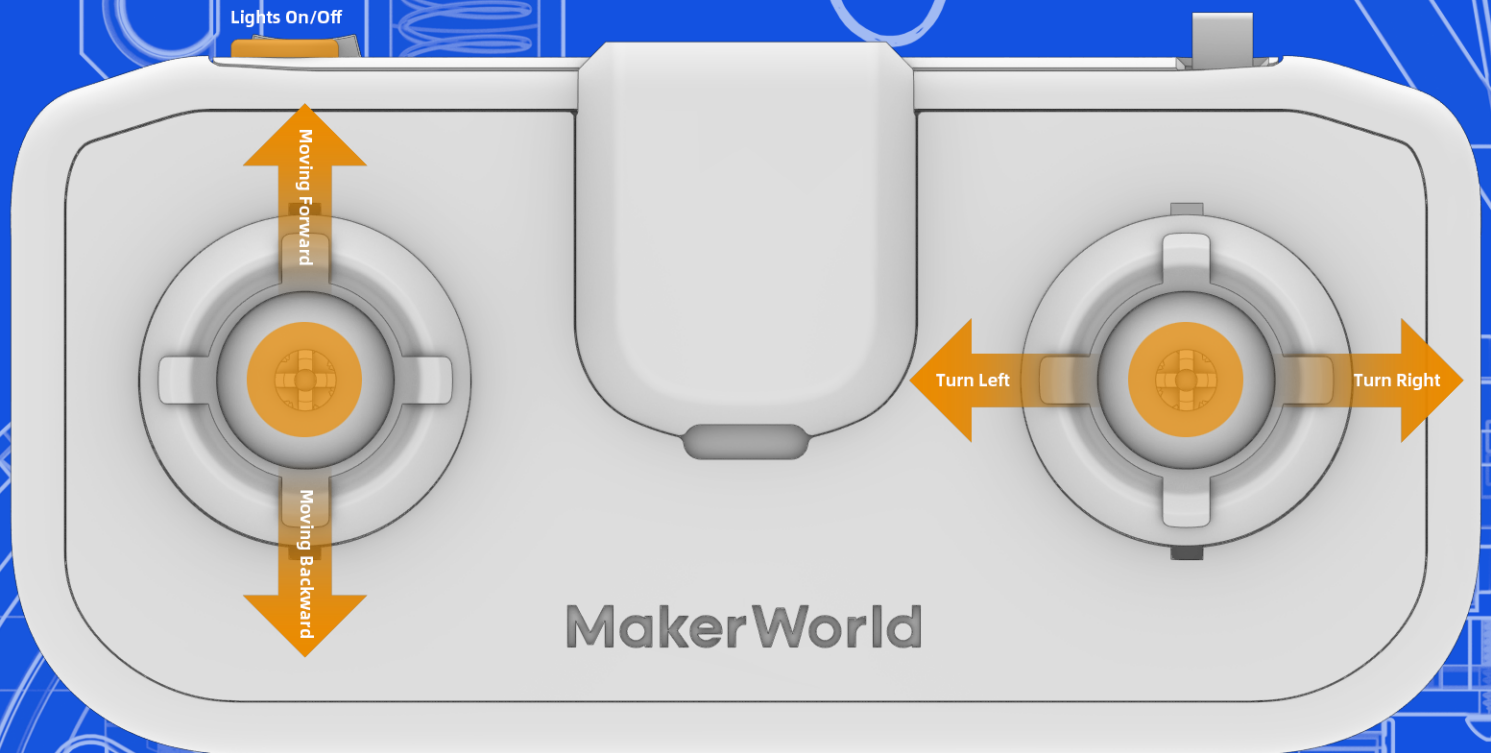
17

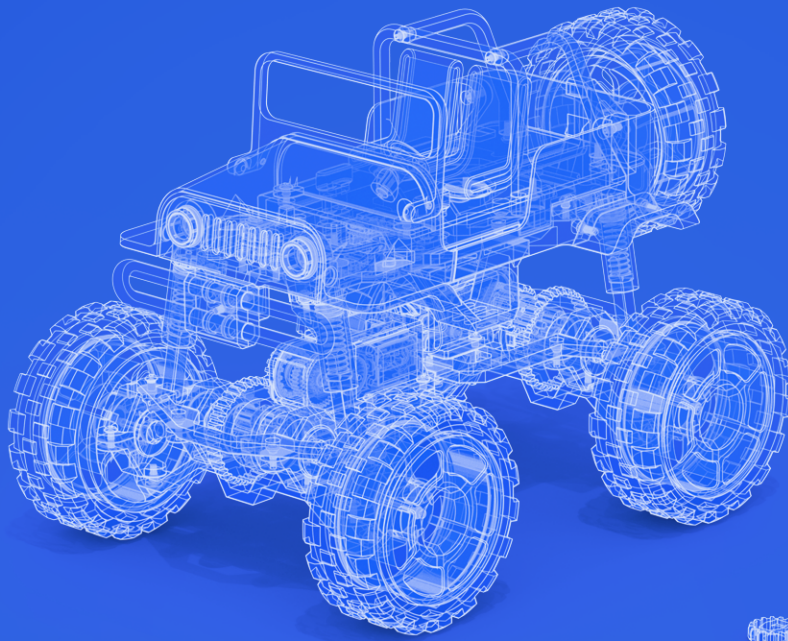
17-1



17-2

Controller





Thank you, Have fun!

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