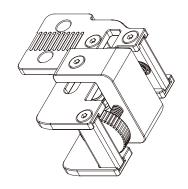




CNC TOOL-FREE TENSIONER FOR VORON2.4 XY BUILD GUIDE

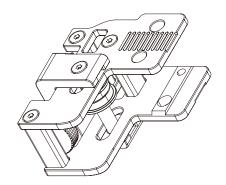
VERSION 2022-12-17

PACKING LIST WWW.CHAOTICLAB.XYZ



Tool-free Tensioner for Voron 2.4 XY Left Assembly

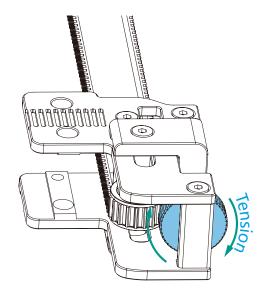
1 set

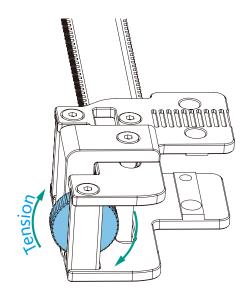


Tool-free Tensioner for Voron 2.4 XY Right Assembly

1 set

X AXIS WWW.CHAOTICLAB.XYZ





TENSION

The tensioning direction is as shown in the figure.

Both the left and right tensioners are tensioned when the pulley is turned clockwise.

Before installing XY belt, please turn the pulley counterclockwise in advance to loosen the tensioner.

X AXIS WWW.CHAOTICLAB.XYZ

BEFORE START

There are parts with similar shapes in the assembly, so please distinguish the left and right parts before starting, as shown in the figure.

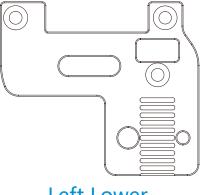
在此Tool-free Tensioner中所有东西都在 出场时预装,因此你可以跳过从此页到12页



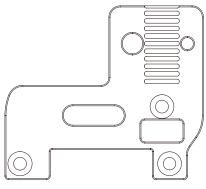
Left Upper



Right Upper

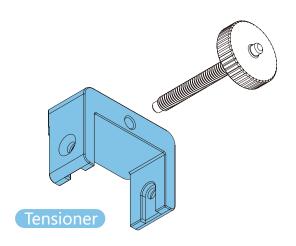


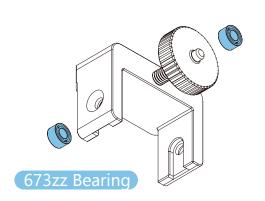
Left Lower

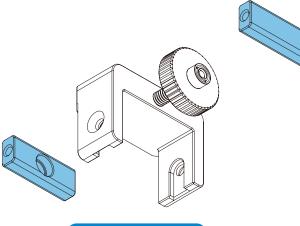


Right Lower

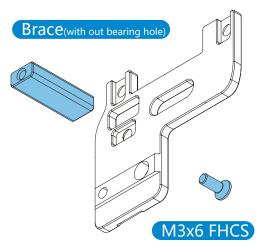
TENSIONER WWW.CHAOTICLAB.XYZ

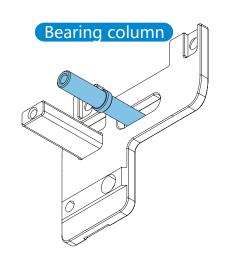


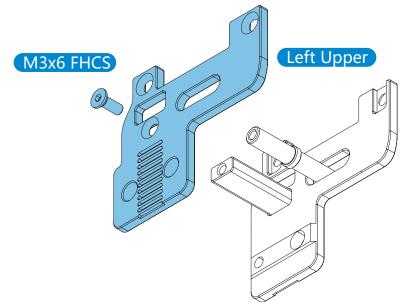




Brace(with bearing hole)

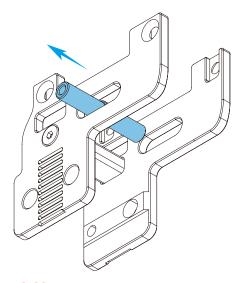


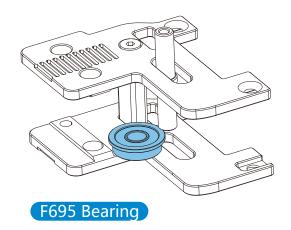


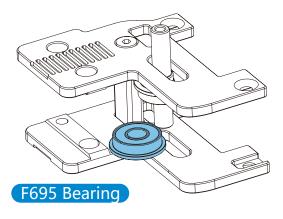


BRACE

This BRACE has no bearing hole.

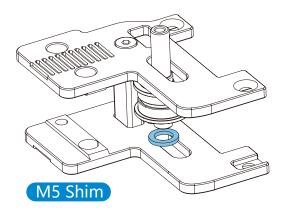


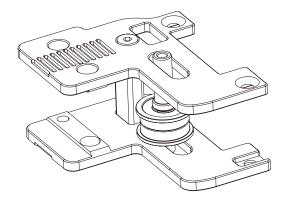


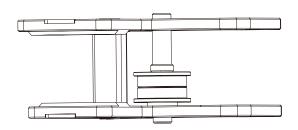


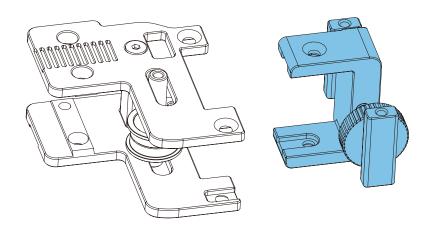
BEARING COLUMN

Move bearingcolumn up to facilitate mounting of F695 and M5 shim.



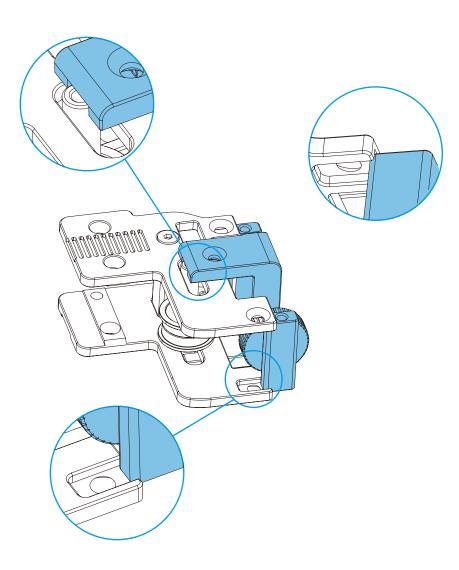


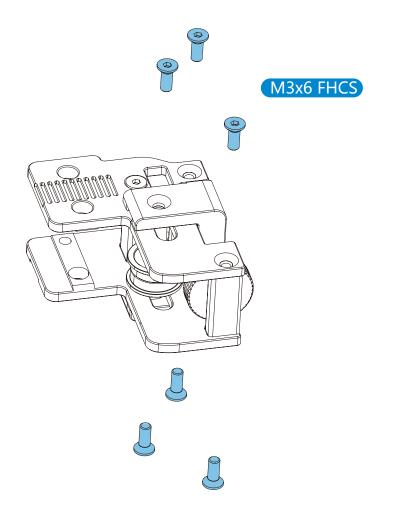


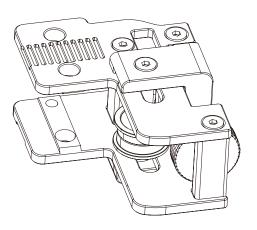


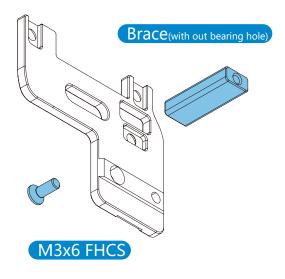
ALIGN

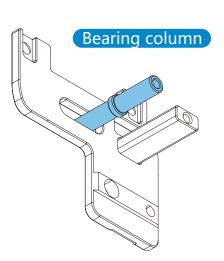
As shown in the image. When loading the tensioning assembly, take care to align the notches of both Brace and Bearing Column at the same time.

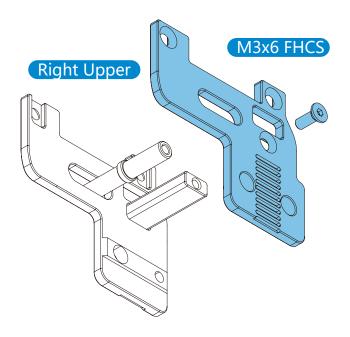






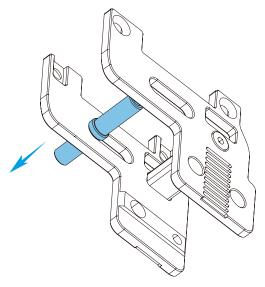


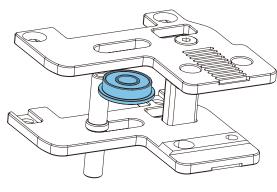




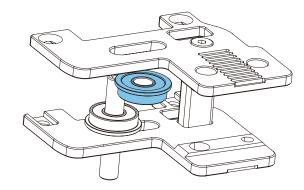
BRACE

This BRACE has no bearing hole.





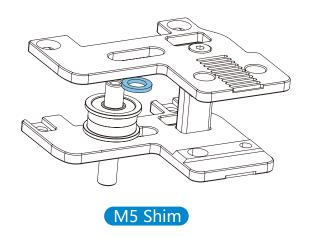


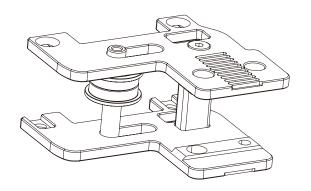


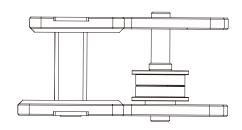
F695 Bearing

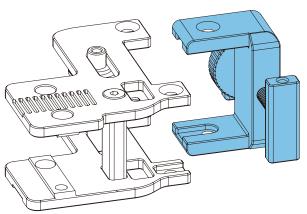
BEARING COLUMN

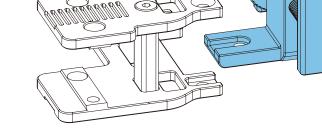
Move bearing column down to facilitate mounting of F695 and M5 shim.





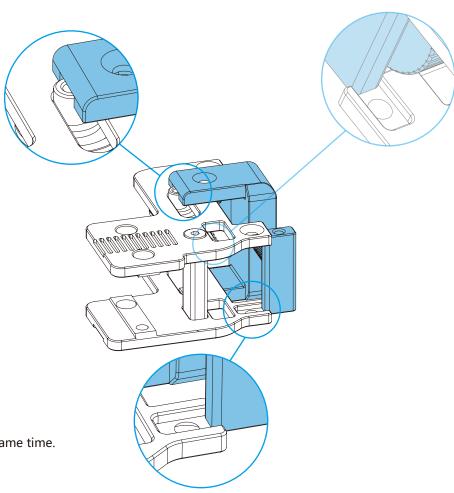


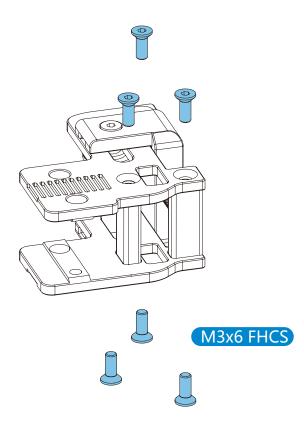


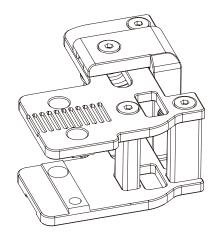


ALIGN

As shown in the image. When loading the tensioning assembly, take care to align the notches of both Brace and Bearing Column at the same time.

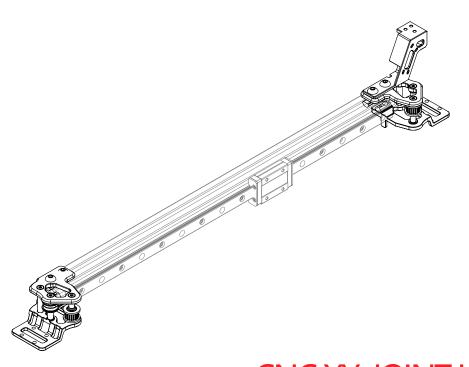












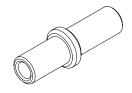
CNC XY-JOINT KIT FOR VORON 2.4/TRIDENT BUILD GUIDE

VERSION 2023-07-25

XY-Joint Packing List www.chaoticlab.com



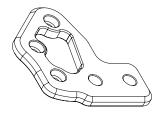
X-Joint Left
1pc



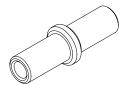
Bearing Column 2pcs (red)



Drop-in T-nut, M5 (2020)



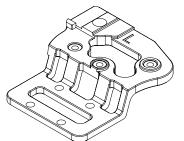
X-Joint Right



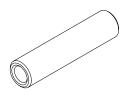
Idler Column 2pcs (black)



Button Head Cap Screw(BHCS)M5x10 6pcs



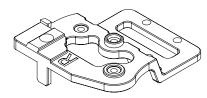
Y-Joint Left



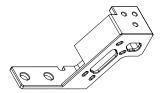
Support Column 2pcs



Socket Head Cap Screw(SHCS)
M3x26 6pcs

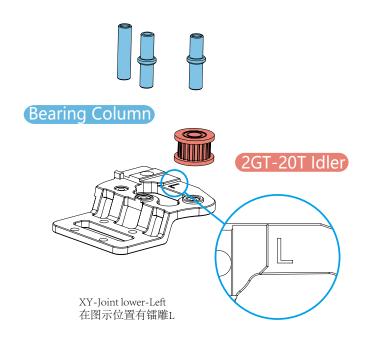


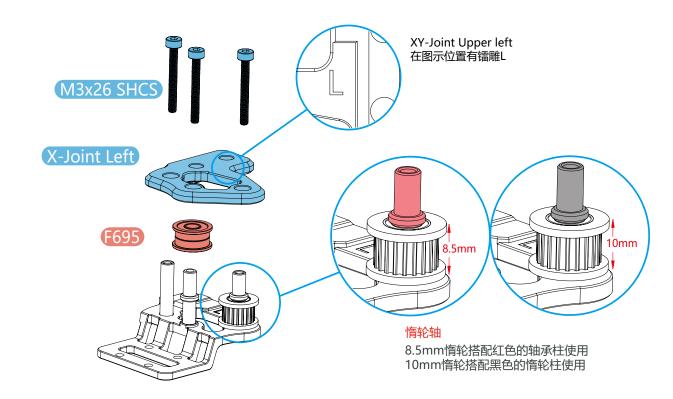
Y-Joint Right

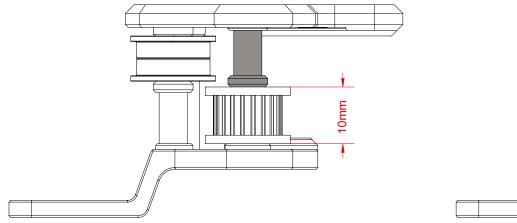


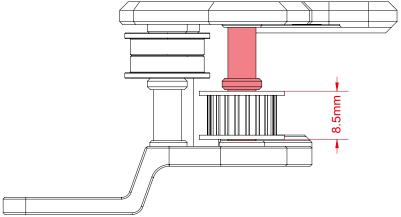
XY Cable Chain Bridge 2pcs

Support Column

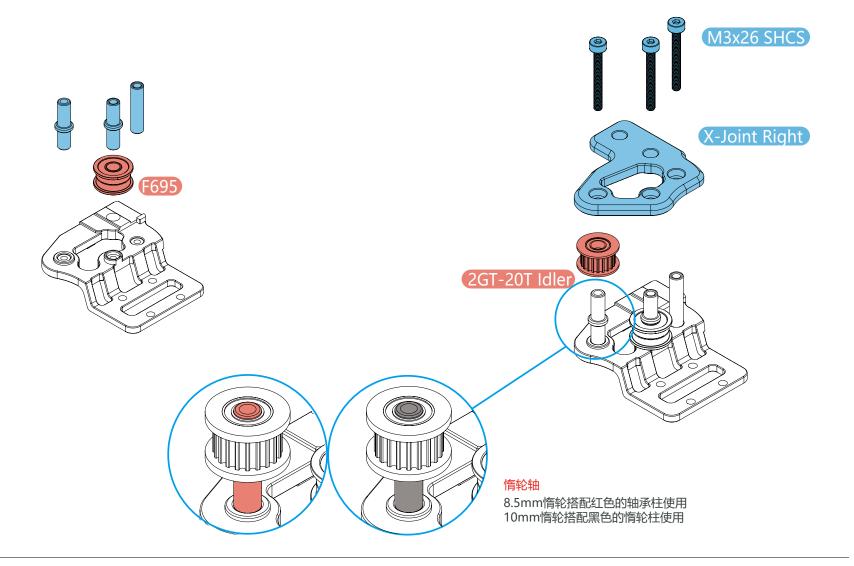


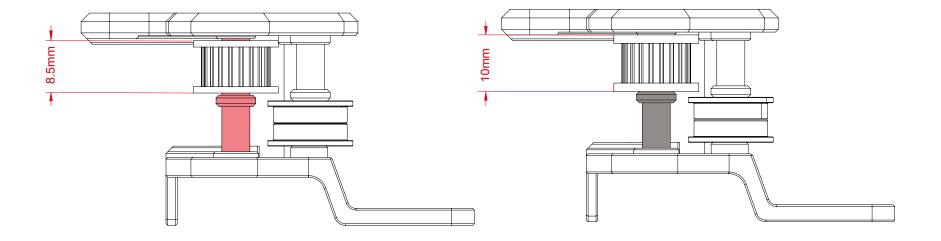


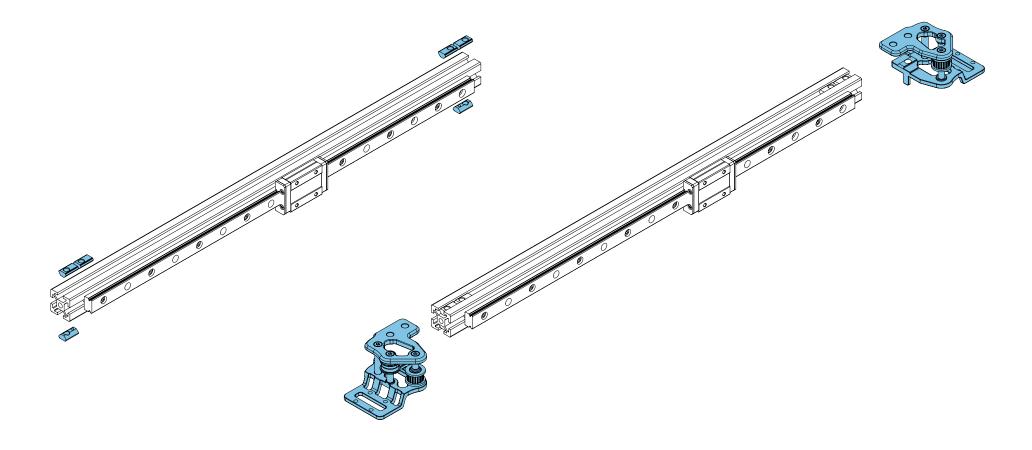


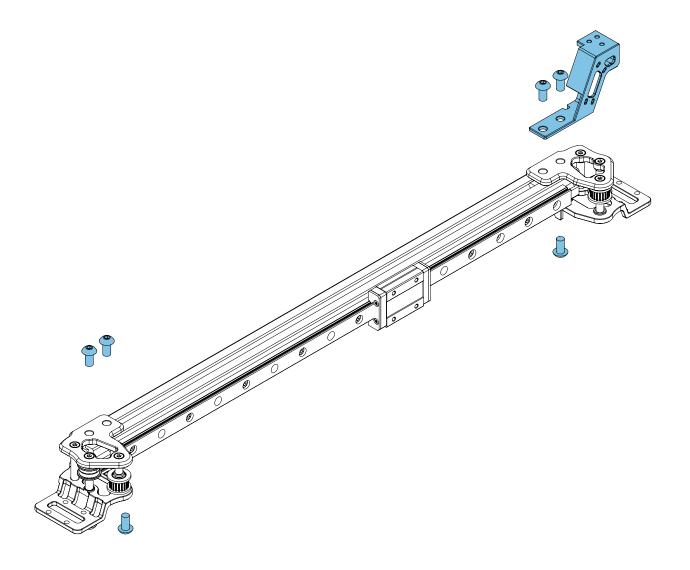


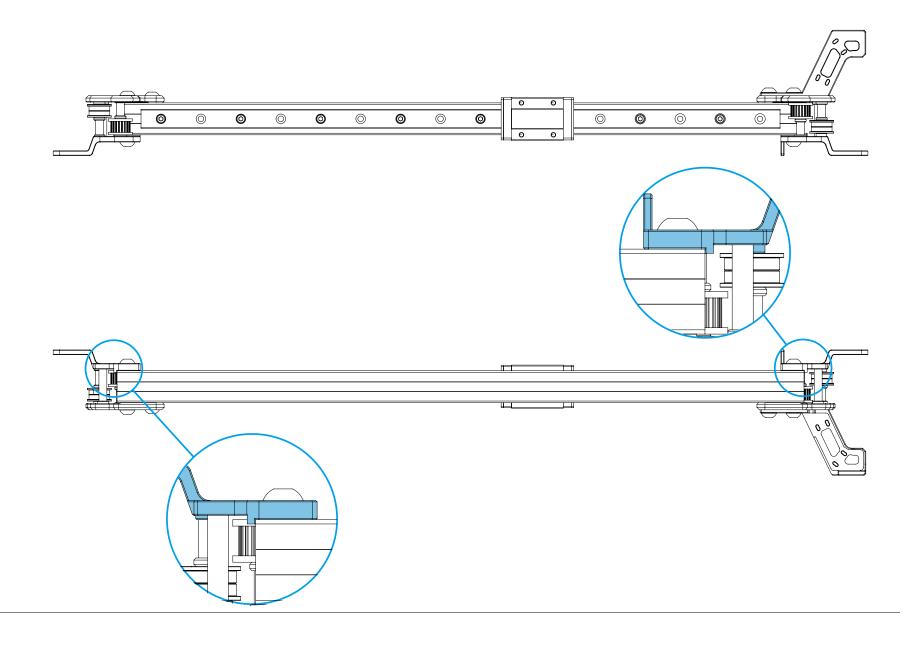
XY Joint Left WWW.CHAOTICLAB.COM















CNC A/B DRIVE KIT FOR VORON 2.4 BUILD GUIDE

VERSION 2023-07-25

A/B DRIVE PACKING LIST WWW.CHAOTICLAB.COM



A Drive Frame Upper (Left)
1pc



M12 Cable Protector Bracket



Microswitch Nut



B Drive Frame Upper (Right)1pc

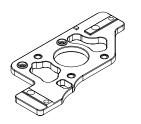


Universal Drag Chain Bracket 1pc

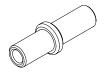


Drop-in T-nut(2020)

M3 2pcs M5 6pcs



A Drive Frame Lower (Left)
1pc



Bearing Column



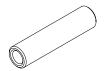
Button Head Cap Screw(BHCS)

M5x10 6pcs



B Drive Frame Lower (Right)

1n



Support Column

6pcs



Socket Head Cap Screw(SHCS)

 M3x30
 6pcs

 M3x26
 4pcs

 M3x14
 4pcs

 M3x10
 2pcs

 M3x6
 4pcs

 M2x12
 2pcs



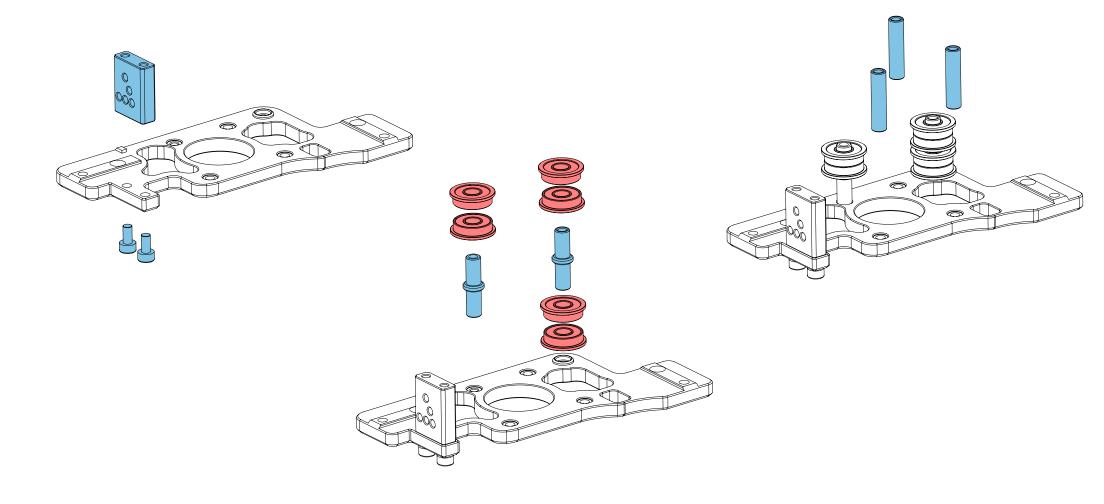
Cable Cover

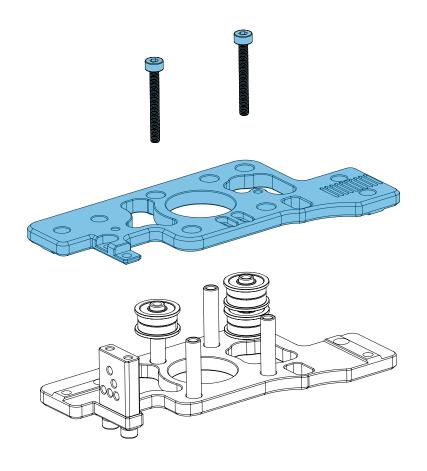
1pc

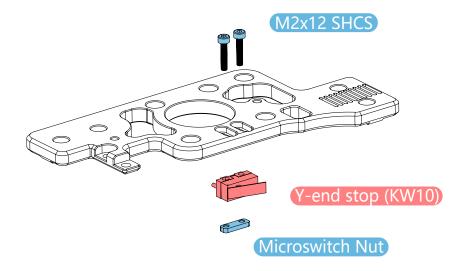


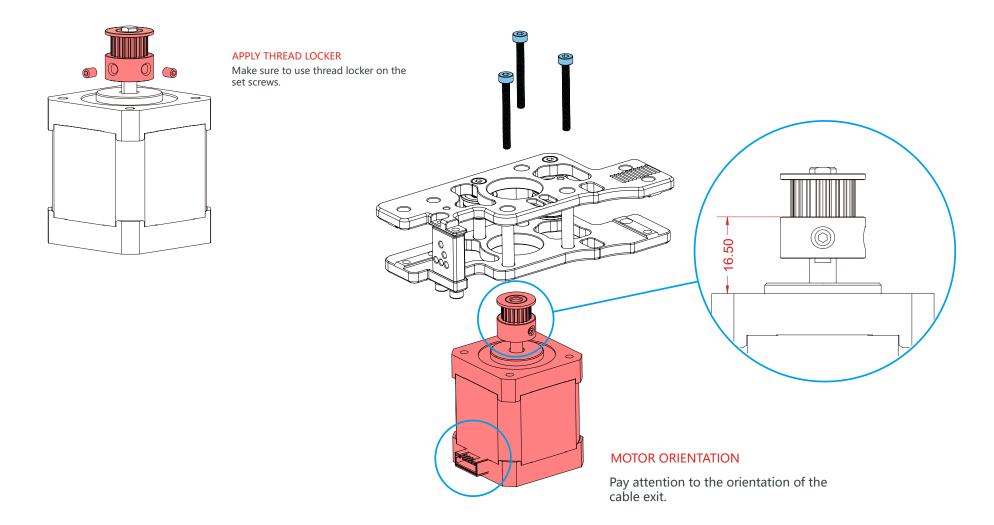
Bending resistant protective wire sleeve

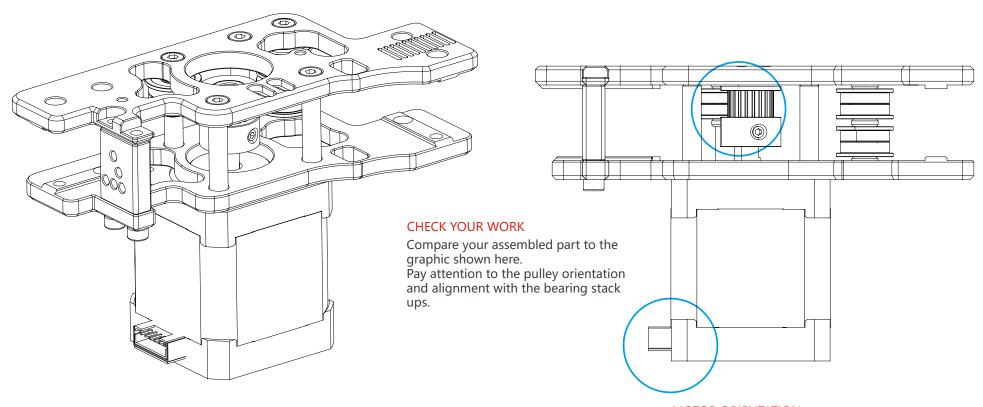
1pc





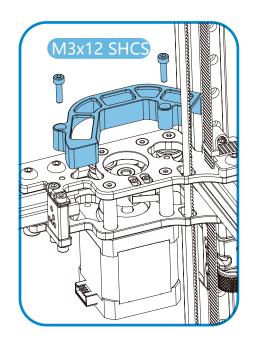






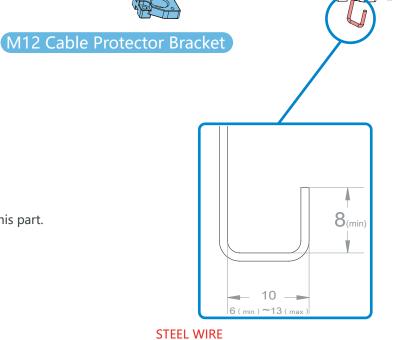
MOTOR ORIENTATION

Pay attention to the orientation of the cable exit.



CABLE COVER

Confirm that the wiring is completed before installing this part.



Steel wire diameter not greater than 2mm.

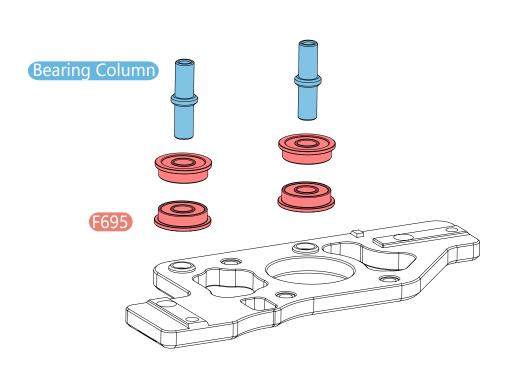


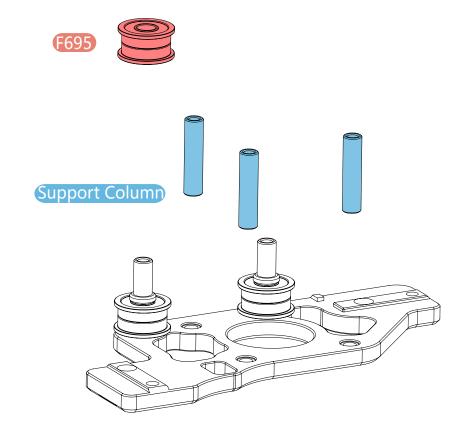
M3x12 SHC

M3x6 SHCS

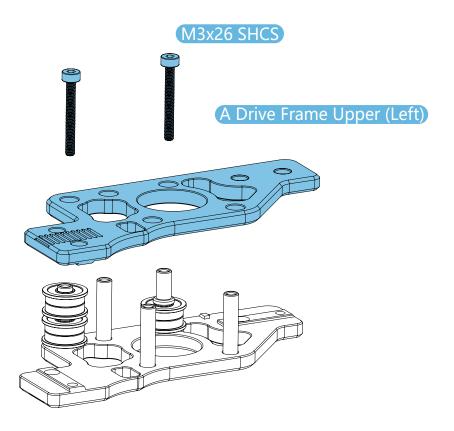
The figure shows the use of CAN bus.

B Drive(left) WWW.CHAOTICLAB.COM

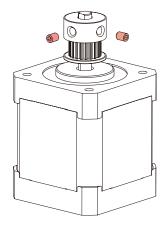




B Drive(left) www.chaoticlab.com

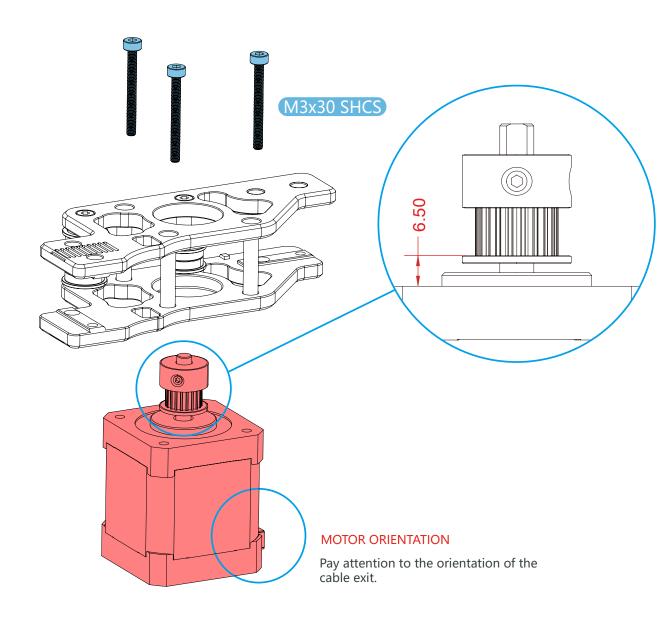


B Drive(left) WWW.CHAOTICLAB.COM

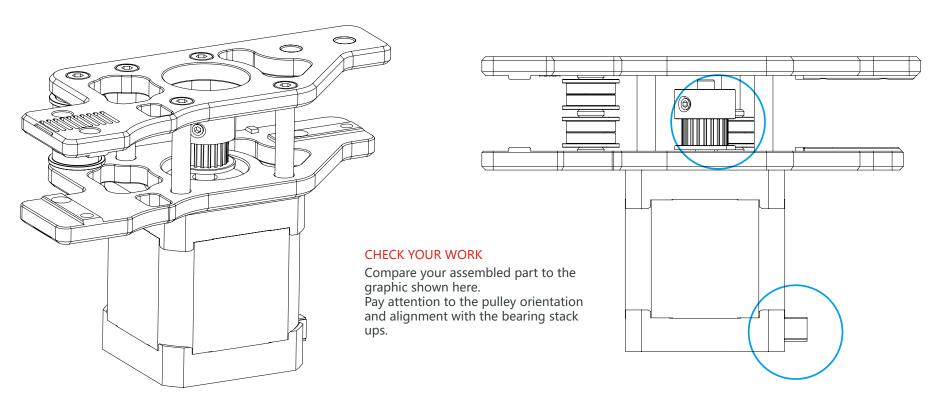


MOTOR ORIENTATION

Pay attention to the orientation of the cable exit.



B Drive(left) WWW.CHAOTICLAB.COM

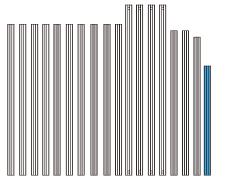


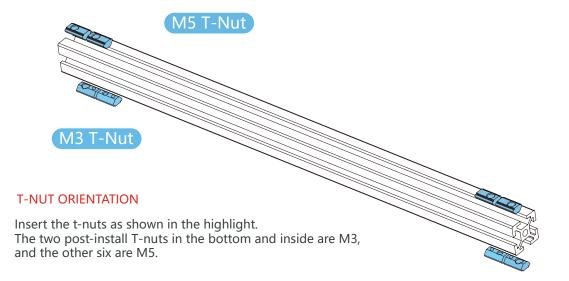
MOTOR ORIENTATION

Pay attention to the orientation of the cable exit.

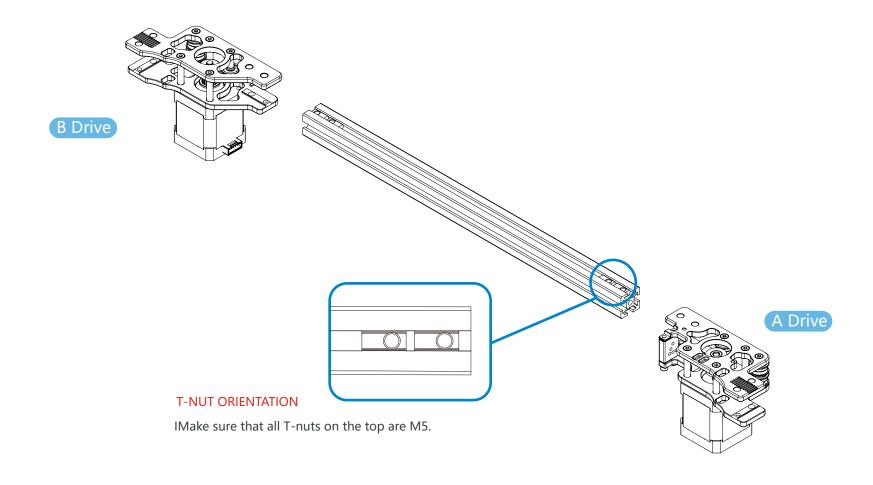
Gantry www.

WWW.CHAOTICLAB.COM

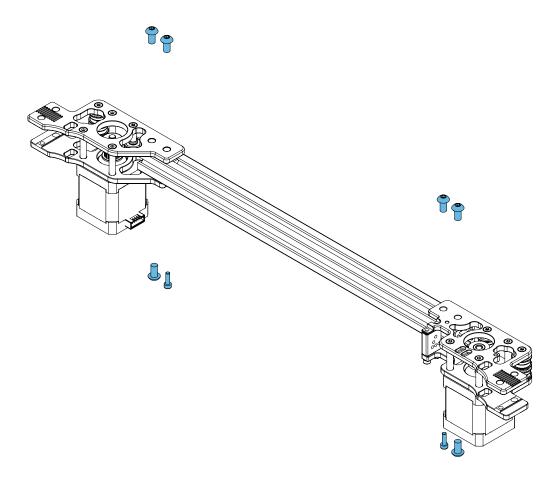




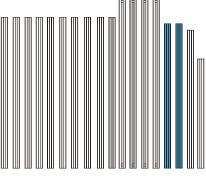
Gantry www.chaoticlab.com

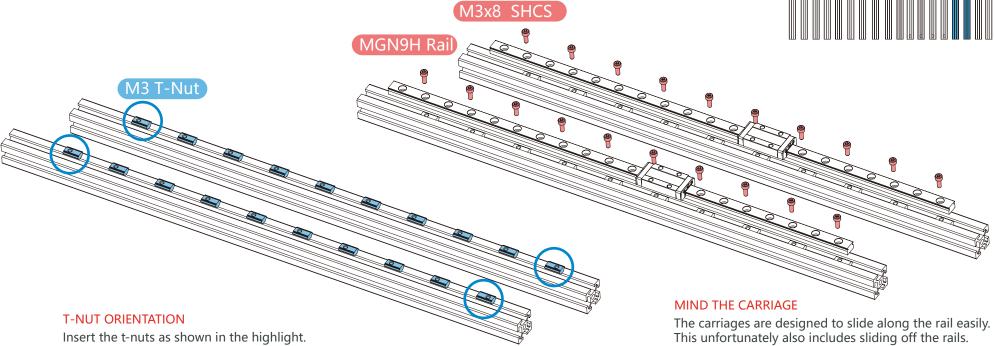


Gantry www.chaoticlab.com



Y-axis WWW.CHAOTICLAB.COM



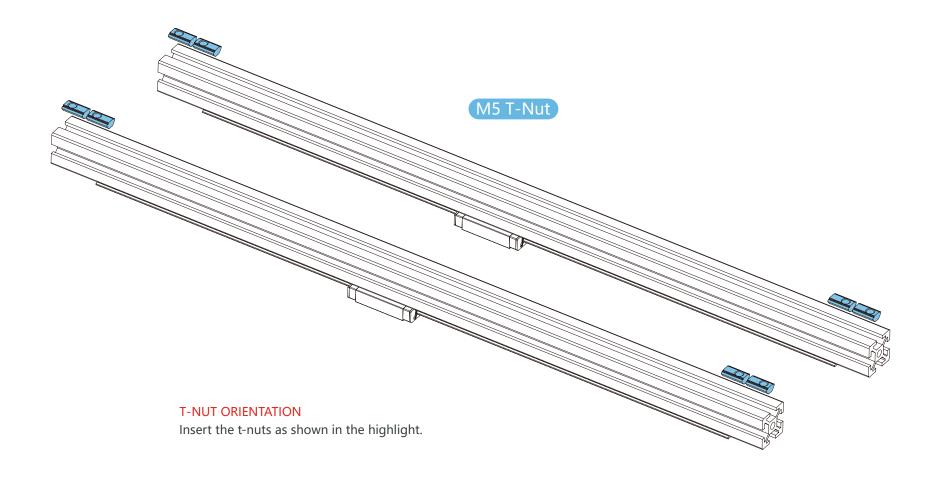


Dropping the carriage likely irreparably damages it.

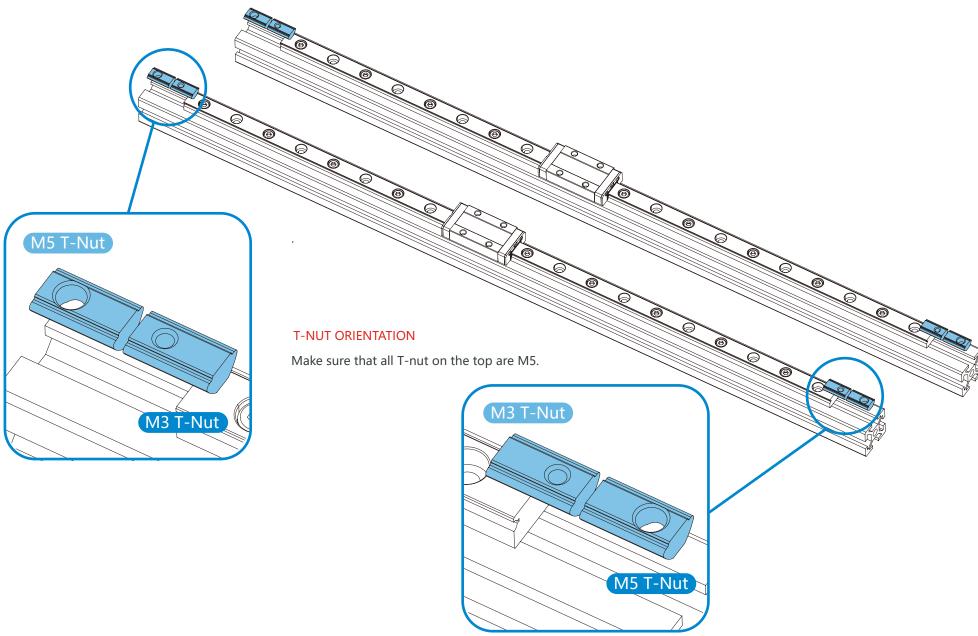


Insert the t-nuts as shown in the highlight.

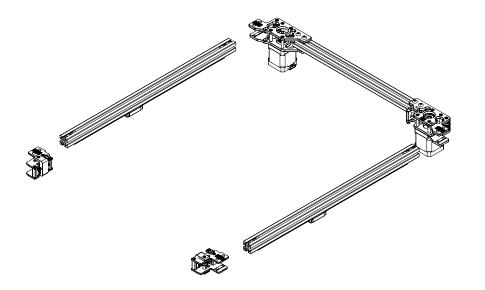
Y-axis WWW.CHAOTICLAB.COM

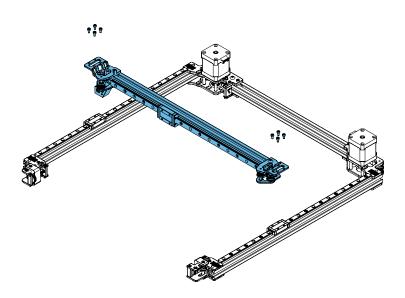


Y-axis WWW.CHAOTICLAB.COM



Gantry www.chaoticlab.com





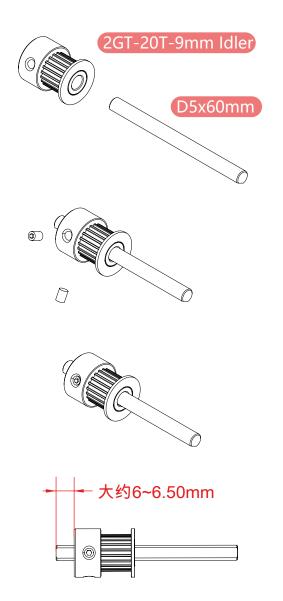


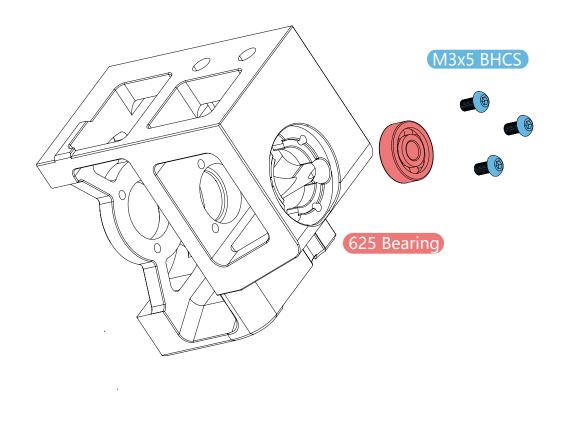


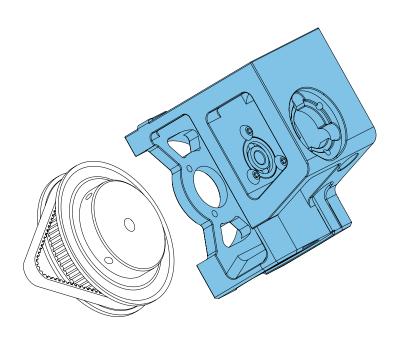
CNC Z DRIVE KIT FOR VORON 2.4 BUILD GUIDE

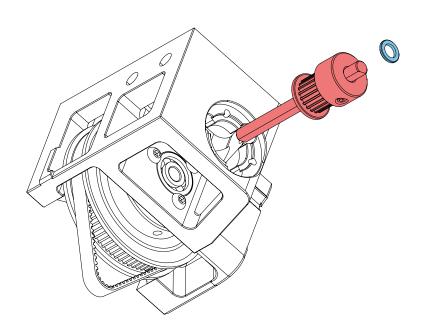
VERSION 2023-07-25

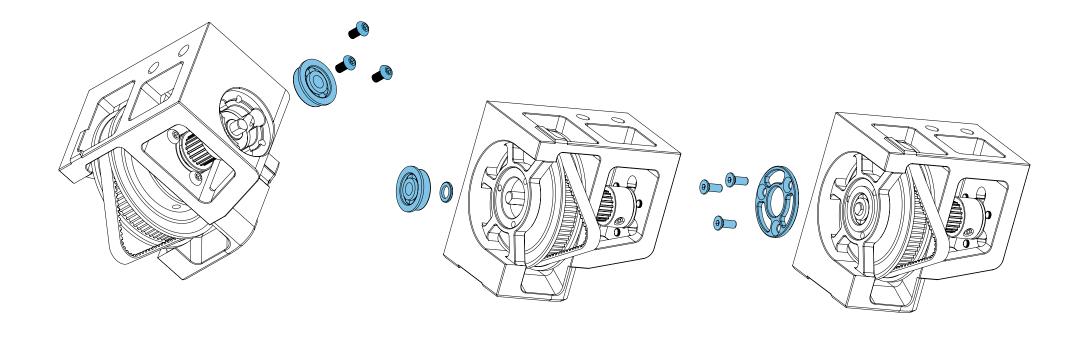
Z Joint WWW.CHAOTICLAB.COM

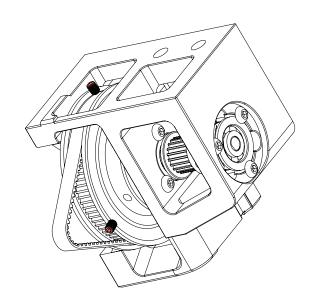


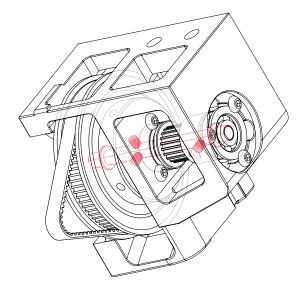




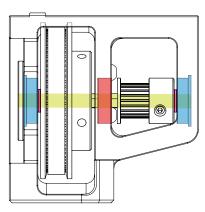




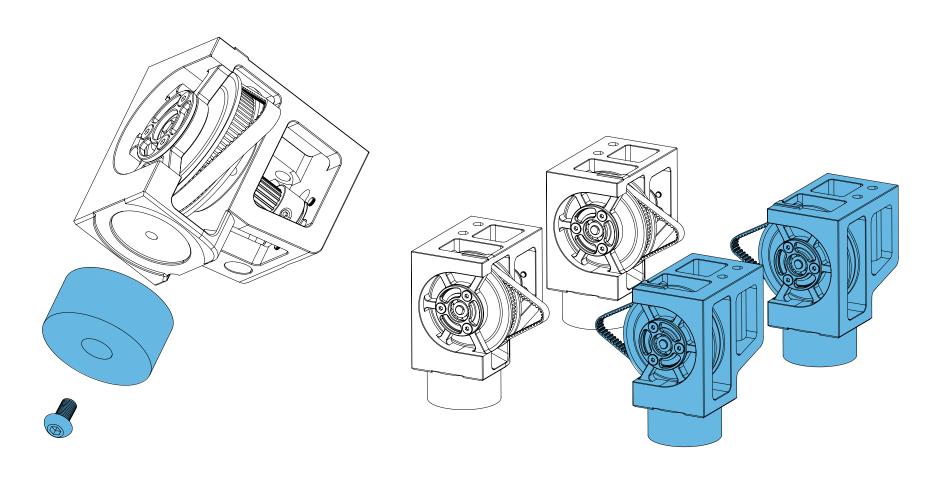




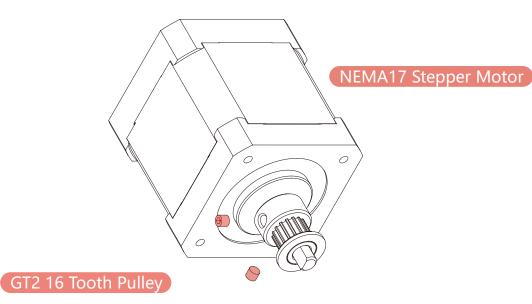
锁紧80T同步轮顶丝时分别向两端 推动两个同步轮这可以保证所有的 同步轮处在正确的位置,确保两个 同步轮都有一颗顶丝锁在轴的D字平面上

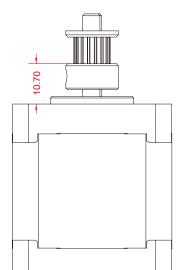


D5x60轴 F625 Bearing 625 Bearing M5x1 垫片



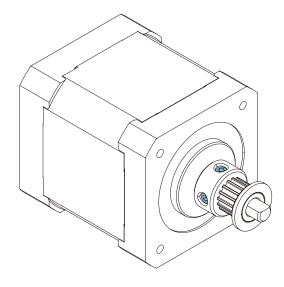
同样的方式安装另外一个相同及两个镜像组件





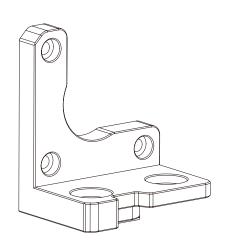
16 TOOTH PULLEY

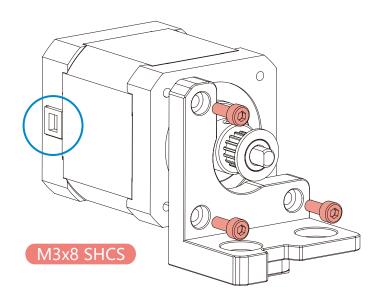
The Z drive motors are the only place in the printer that use 16 tooth pulleys!
Remove the pulleys from your work surface after you finish this chapter



APPLY THREAD LOCKER

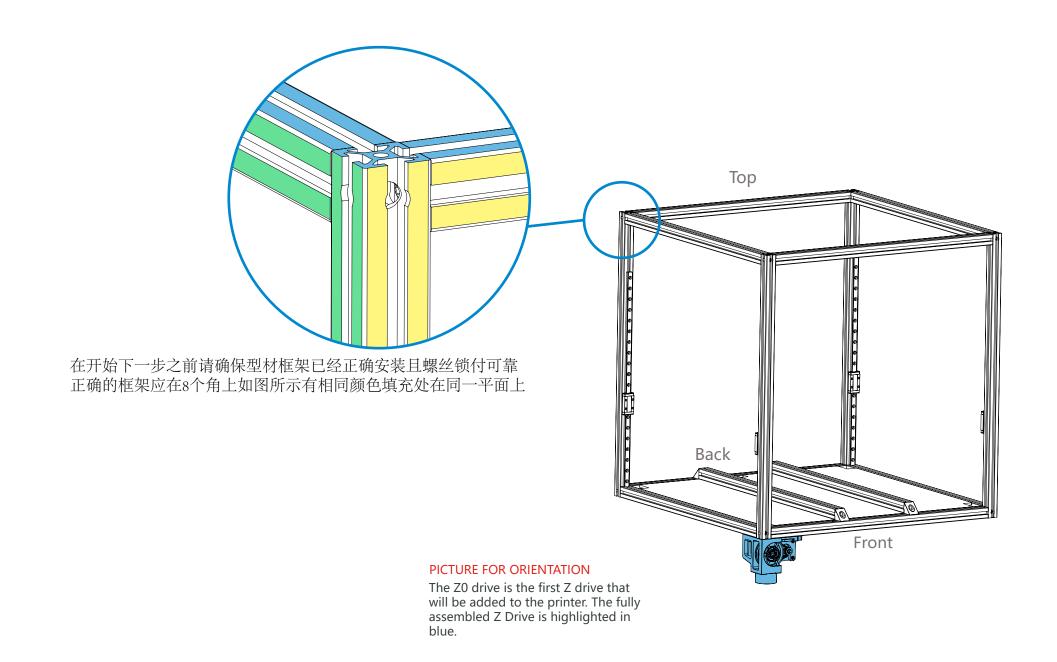
Make sure to use thread locker on the set screws.

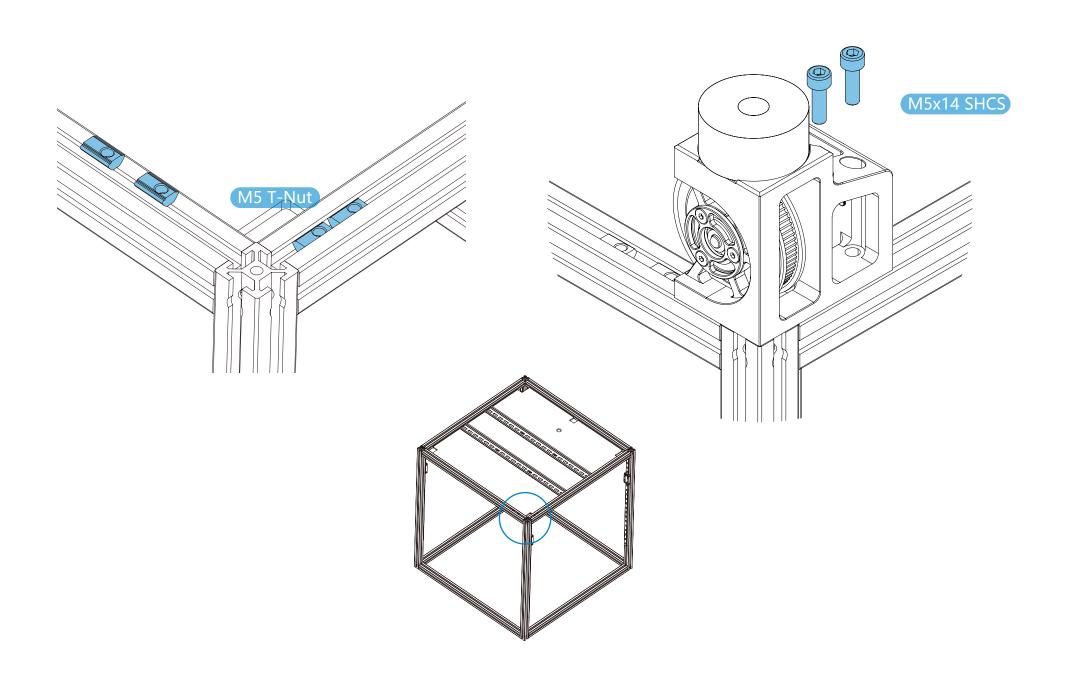


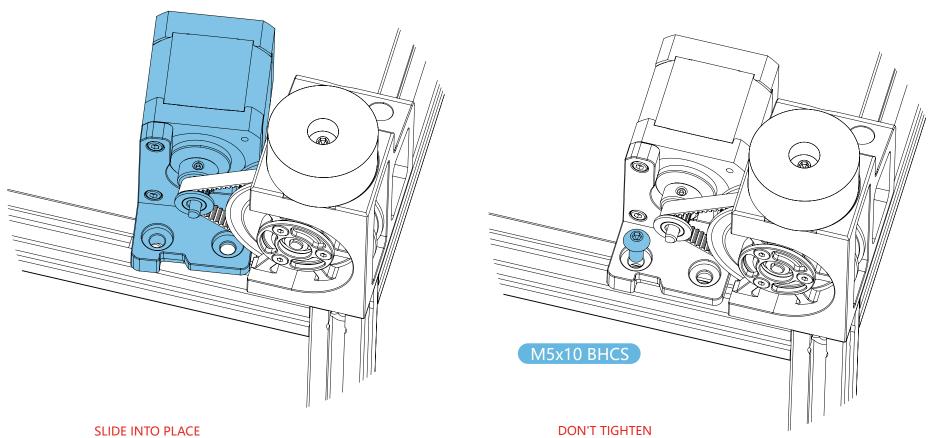


MOTOR ORIENTATION

Pay attention to the orientation of the cable exit.
If you have not prepared M3x8 SHCS, you can also use the M3x8 BHCS in the kit instead.

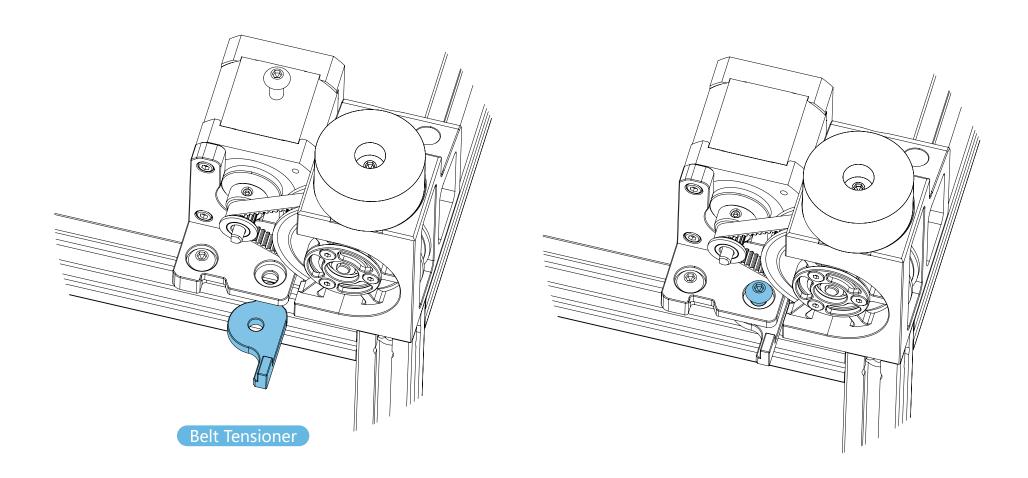


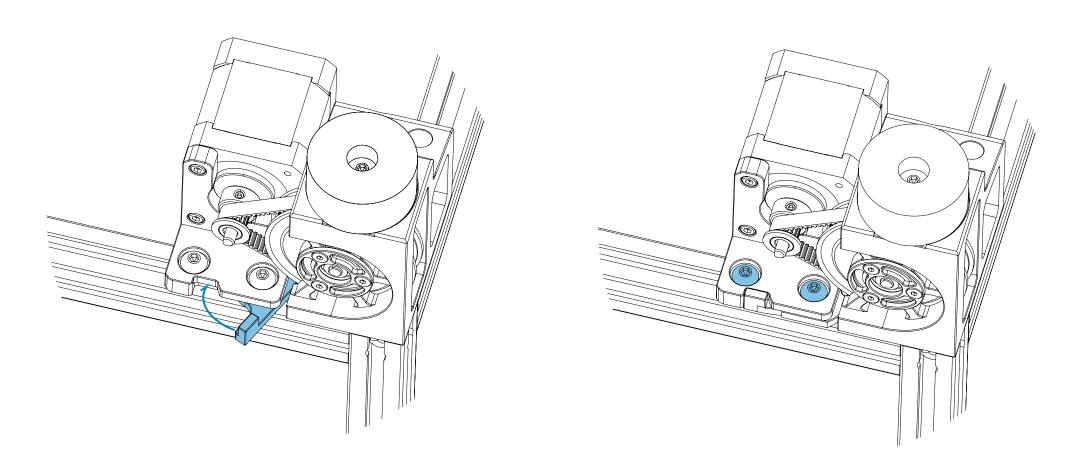




Insert at an angle and slide into place.

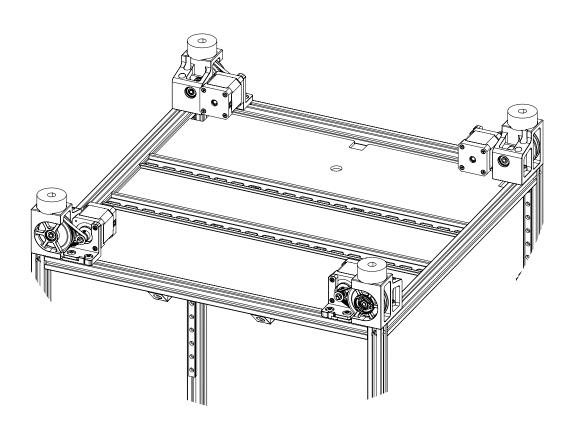
Leave the bolt loose for the next step.





CLOSE THE BELT TENSIONER

Flip the belt tensioner latch closed.



同样方式装入另外一个相同组件及两个镜像组件





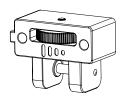
TOOL-FREE TENSIONER KIT FOR VORON 2.4 BUILD GUIDE

VERSION 2023-07-25



Tool-free Tensioner for Z-Axis Assembly

2 sets



Tool-free Tensioner for Z-Axis Mirror Assembly

2 sets

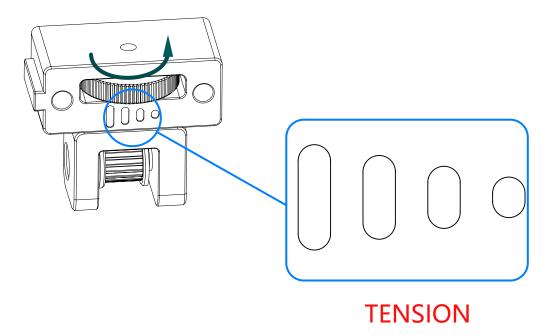


M5x0.5mm Shim

10 pcs

TENSION ADJUSTMENT

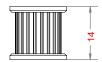
Before installing the belt, rotate the thumbwheel as shown in the figure to loosen the tensioner.



IDLER

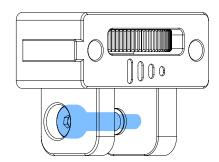
Kit compatible with 13mm and 14mm idlers. Confirm the idler gear size before starting.

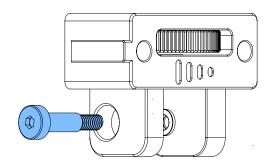




REMOVE THE SCREW

Remove the screw at the position shown in the figure.

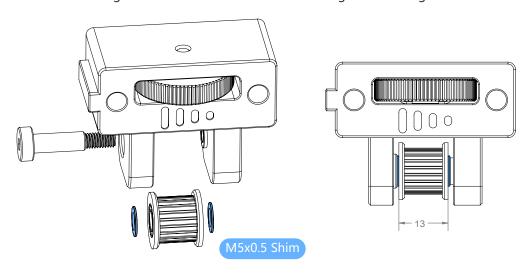


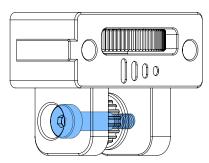


TOOL-FREE TENSIONER FOR Z-AXIS WWW.CHAOTICLAB.COM

FOR 13MM IDLER

Install the idler gear with shims at bothends when using 13mm idler gear.

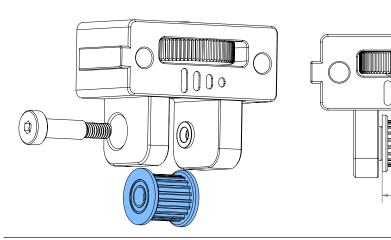


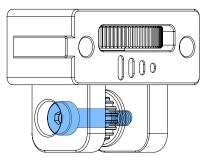


Tighten the screw

FOR 14MM IDLER

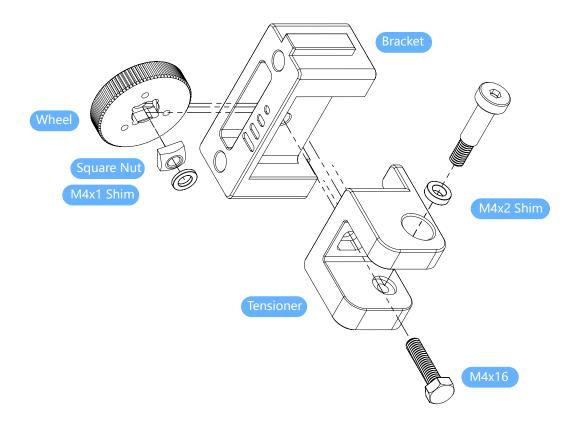
There is no need to add any gasket when using 14mm idler.

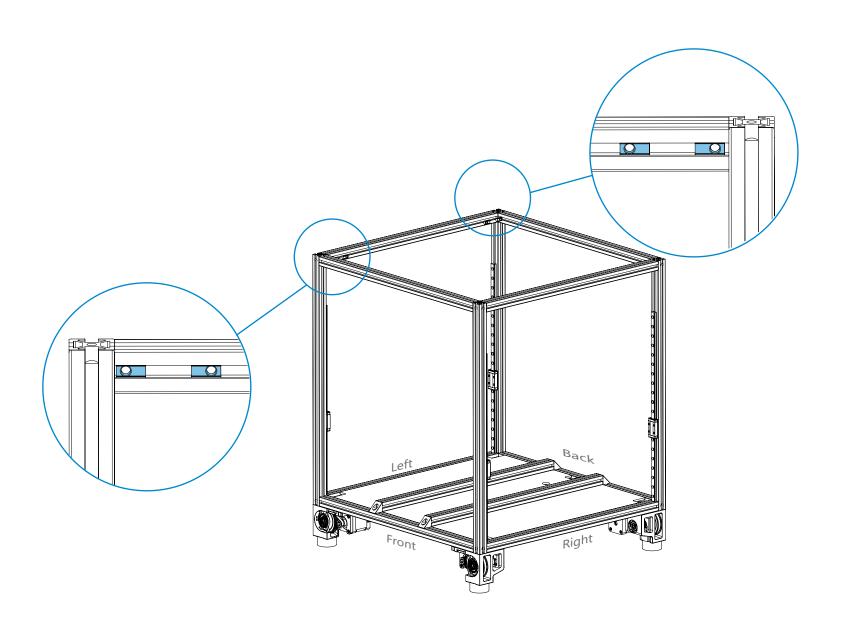


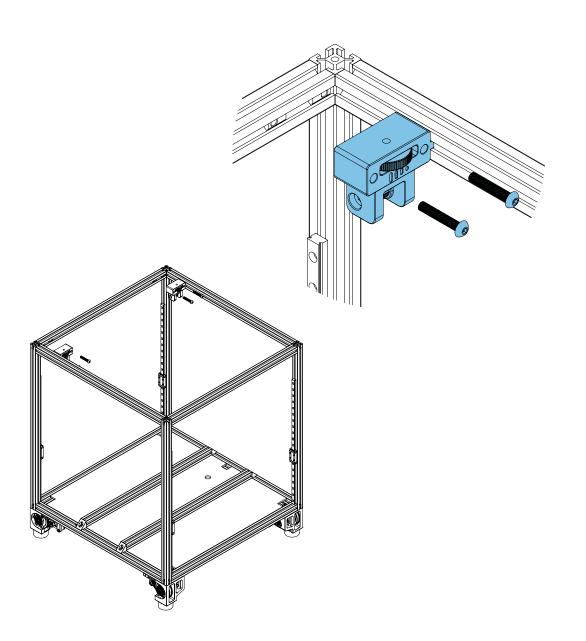


Tighten the screw

EXPLODED VIEW WWW.CHAOTICLAB.COM







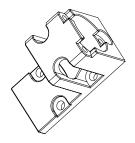




CNC Z JOINT KIT FOR VORON 2.4 BUILD GUIDE

VERSION 2023-07-25

PACKING LIST WWW.CHAOTICLAB.COM



Z Joint Lower

4 pcs



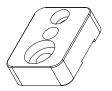
Conical Spring

4 pcs



Button Head Cap Screw(BHCS)

M5x14 12pcs M3x6 12pcs



Z Joint Upper

4 pcs



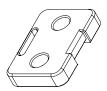
PB5 Bearing

4 pcs



Socket Head Cap Screw(SHCS)

M3x14 4pcs M3x6 16pcs



Z Belt Clip

4 pcs



Hexagon Bolt

M5x40mm 4 pcs



M5 Knurled Nut

4 pcs



Drop-in T-nut(2020)

M3 2pcs M5 6pcs



Stand Off

5x8x4.5mm

4 pcs

