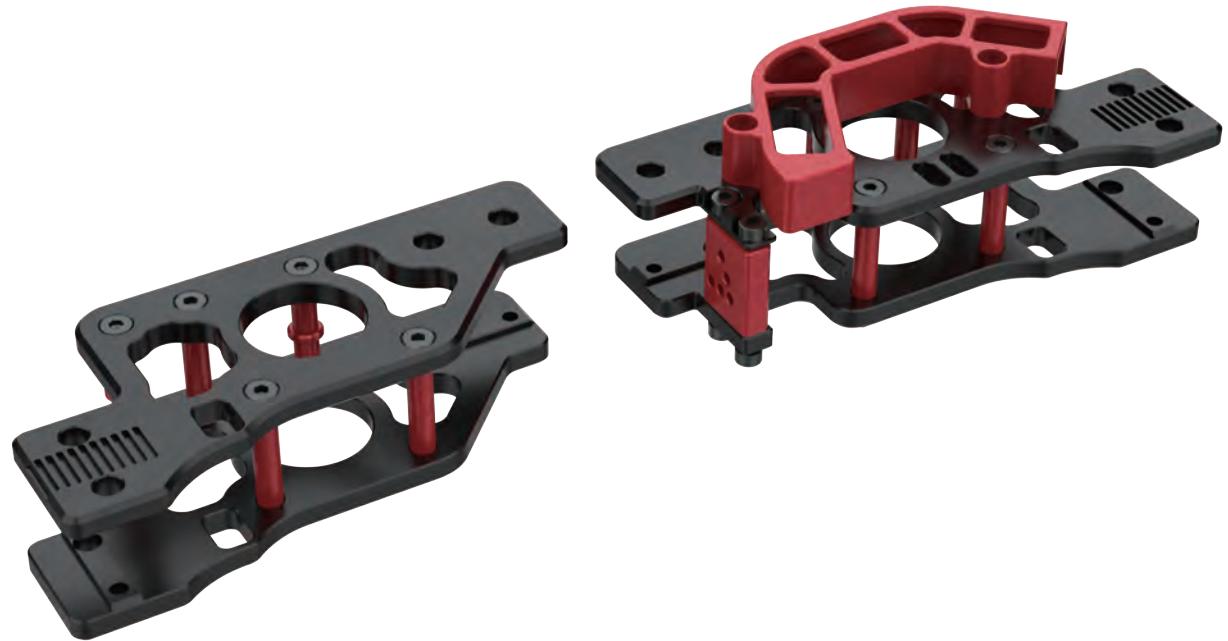




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## VORON 2.4 CNC A/B DRIVE KIT BUILD GUIDE

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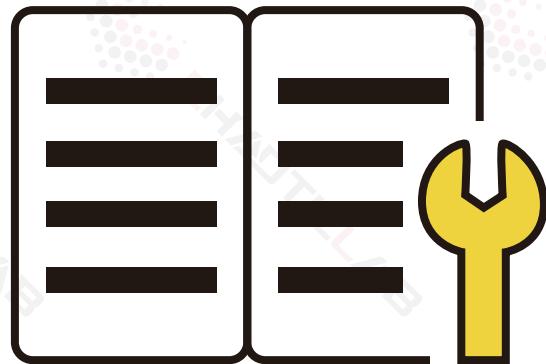
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VERSION 2024-03-25

## READ BEFORE ASSEMBLY

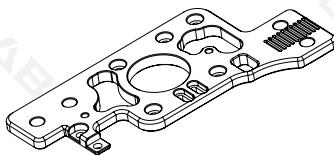
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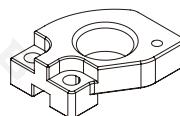
- Parts highlighted in blue are included in this CNC A/B Drive Kit.
- Parts highlighted in red are NOT included and will need to be prepared separately.

## PACKAGING LIST

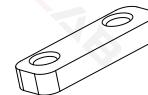
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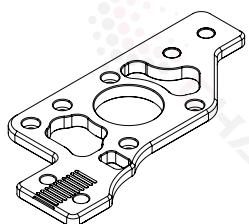
A DRIVE FRAME UPPER (RIGHT)  
1pc



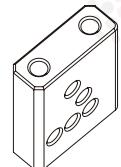
M12 CABLE PROTECTOR BRACKET  
1pc



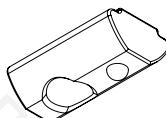
MICROSWITCH NUT  
2pcs



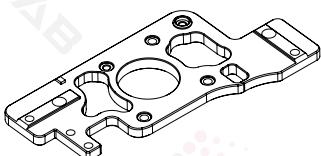
B DRIVE FRAME UPPER (LEFT)  
1pc



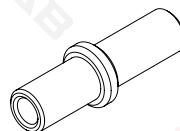
UNIVERSAL DRAG CHAIN BRACKET  
1pc



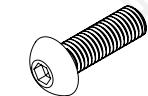
DROP-IN T-NUT (2020)  
M3  
M5  
2pcs  
6pcs



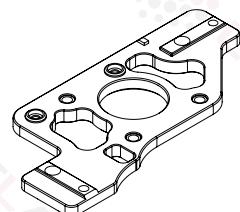
A DRIVE FRAME LOWER (RIGHT)  
1pc



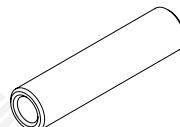
BEARING STANDOFF  
4pcs



BUTTON HEAD CAP SCREW (BHCS)  
M5x10  
6pcs



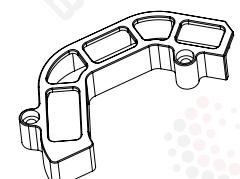
B DRIVE FRAME LOWER (LEFT)  
1pc



SUPPORT COLUMN  
6pcs



SOCKET HEAD CAP SCREW (SHCS)  
M3x30  
M3x25  
M3x14  
M3x10  
M3x6  
M2x12  
6pcs  
4pcs  
4pcs  
2pcs  
4pcs  
2pcs



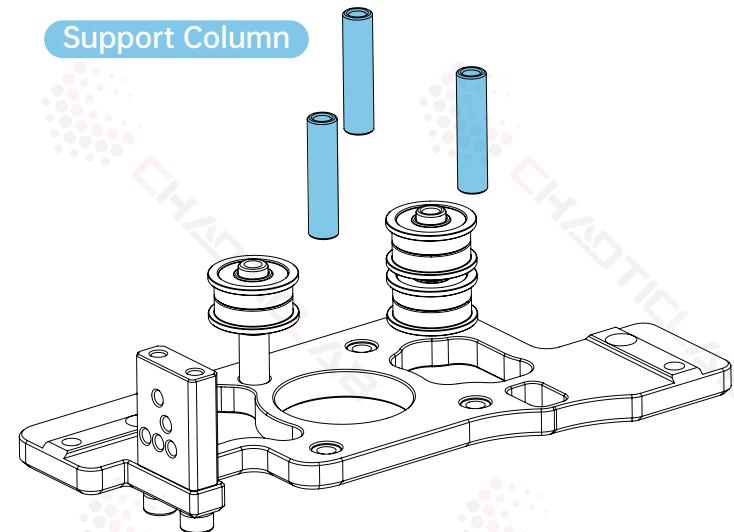
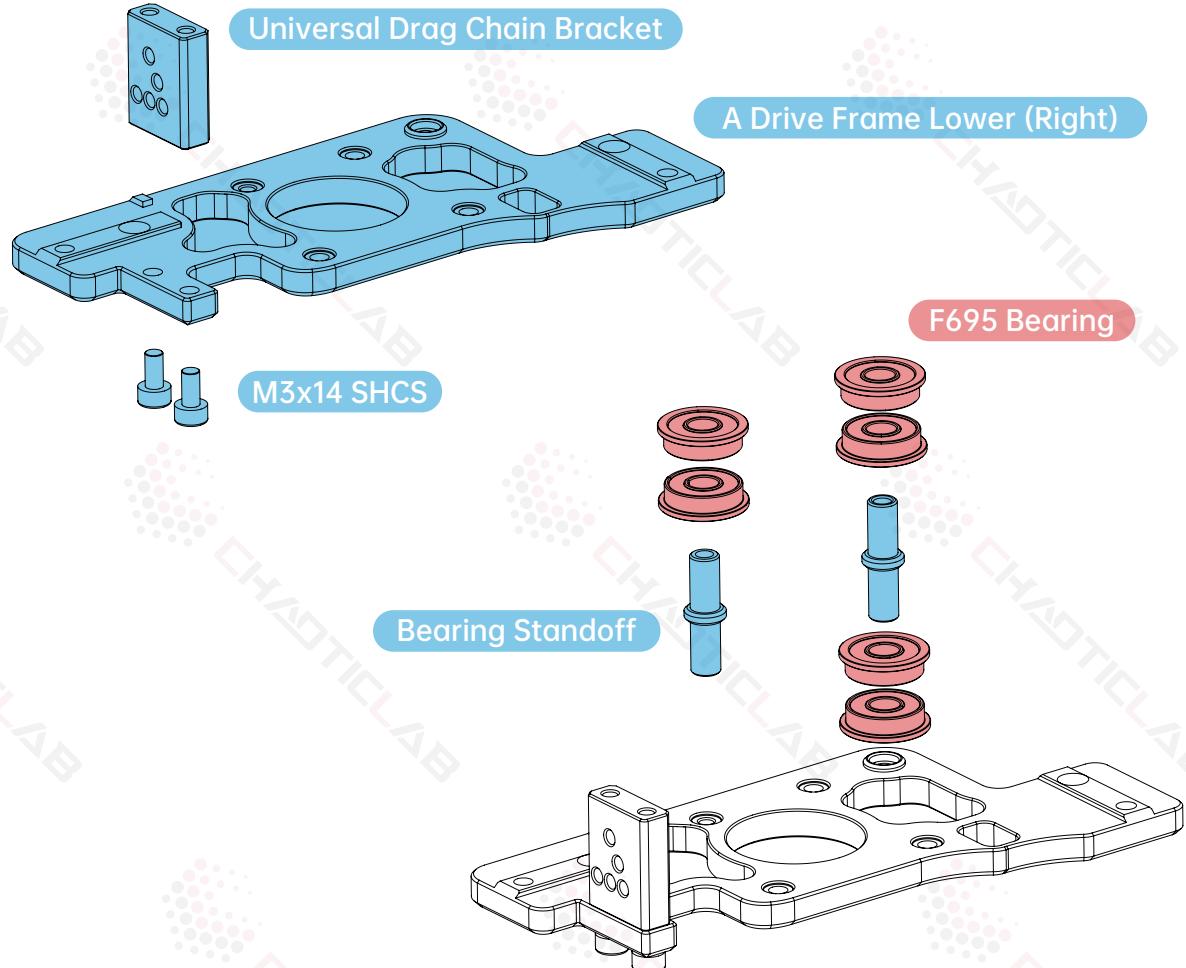
CABLE COVER  
1pc



FLEX-RESISTANT CABLE SLEEVE  
1pc

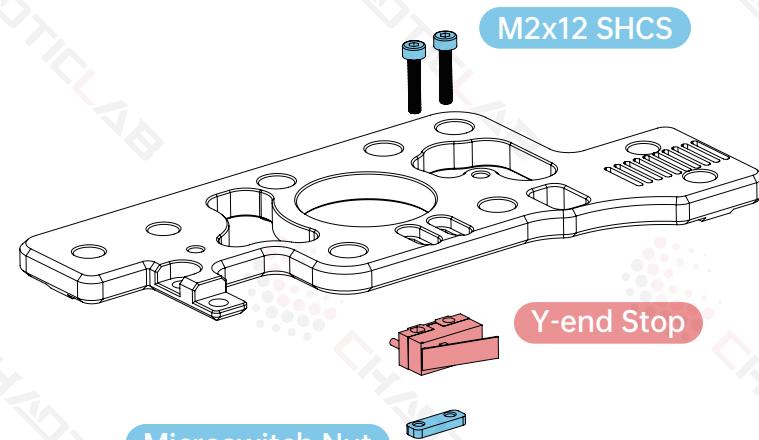
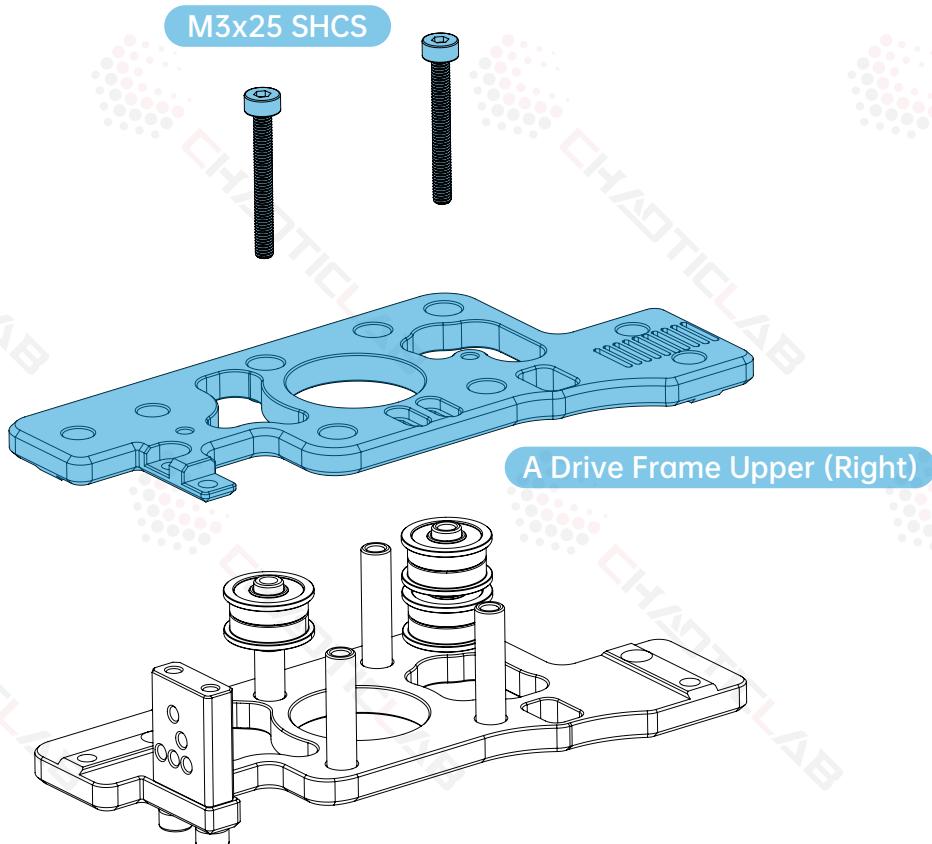
## A DRIVE (RIGHT)

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## A DRIVE (RIGHT)

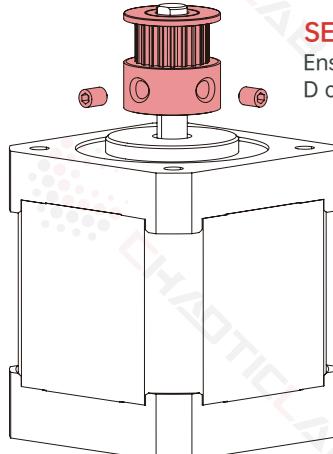
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## A DRIVE (RIGHT)

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### 2GT 20 Tooth Pulley

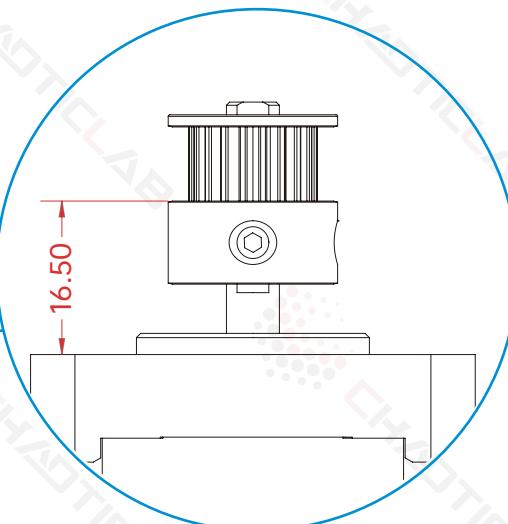
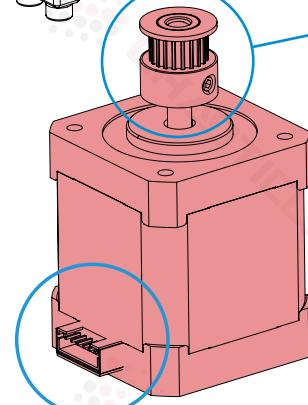
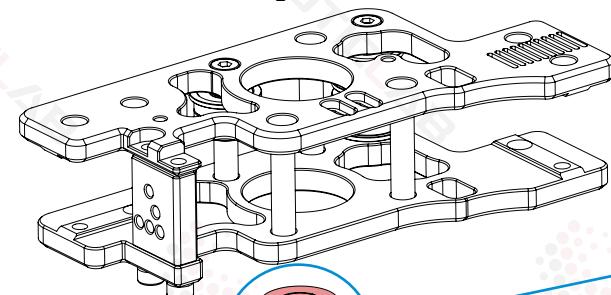


### SET SCREW INSTALLATION AND THREAD LOCKING

Ensure that one of the set screws is positioned with the D cut, and apply thread locker to the set screws.



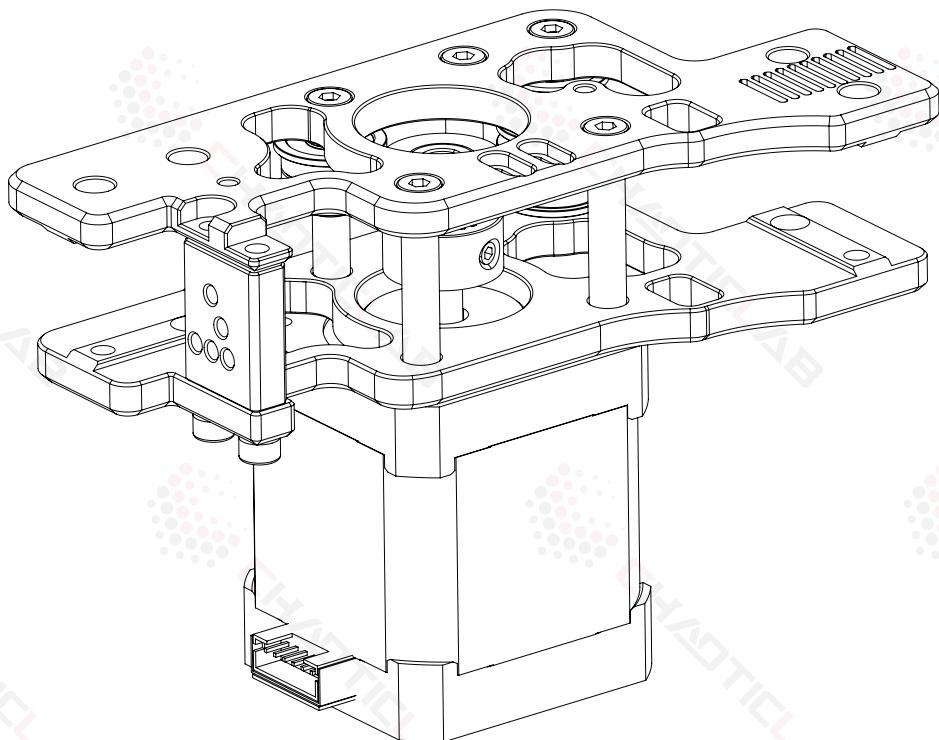
M3x30 SHCS



### MOTOR POSITION

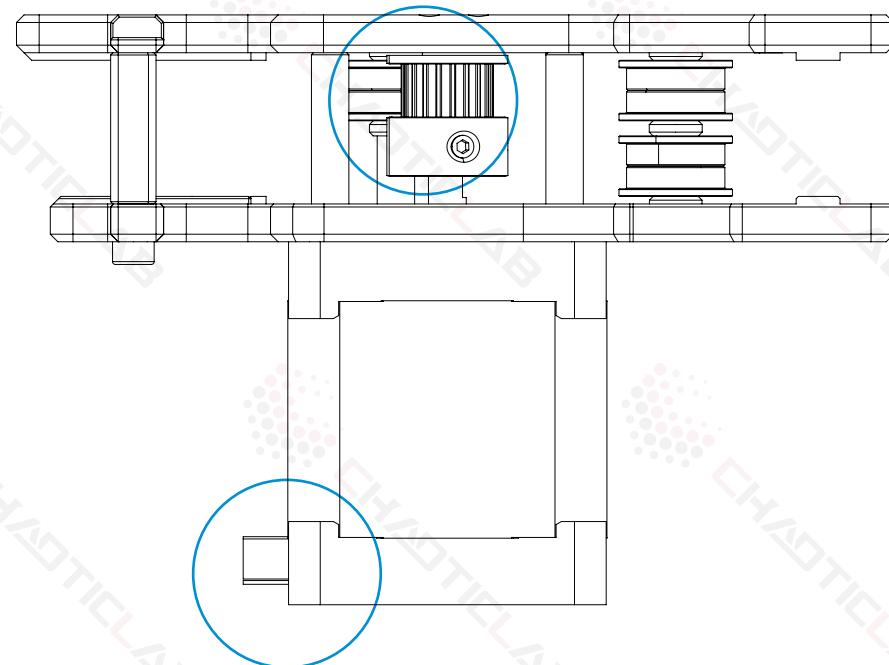
Take note of the exact placement of the cable exit.

## A DRIVE (RIGHT)



### ASSESS YOUR WORK

Compare your assembled part to the illustration provided here.  
Pay attention to the placement of the pulley and alignment  
with the bearing stock ups.

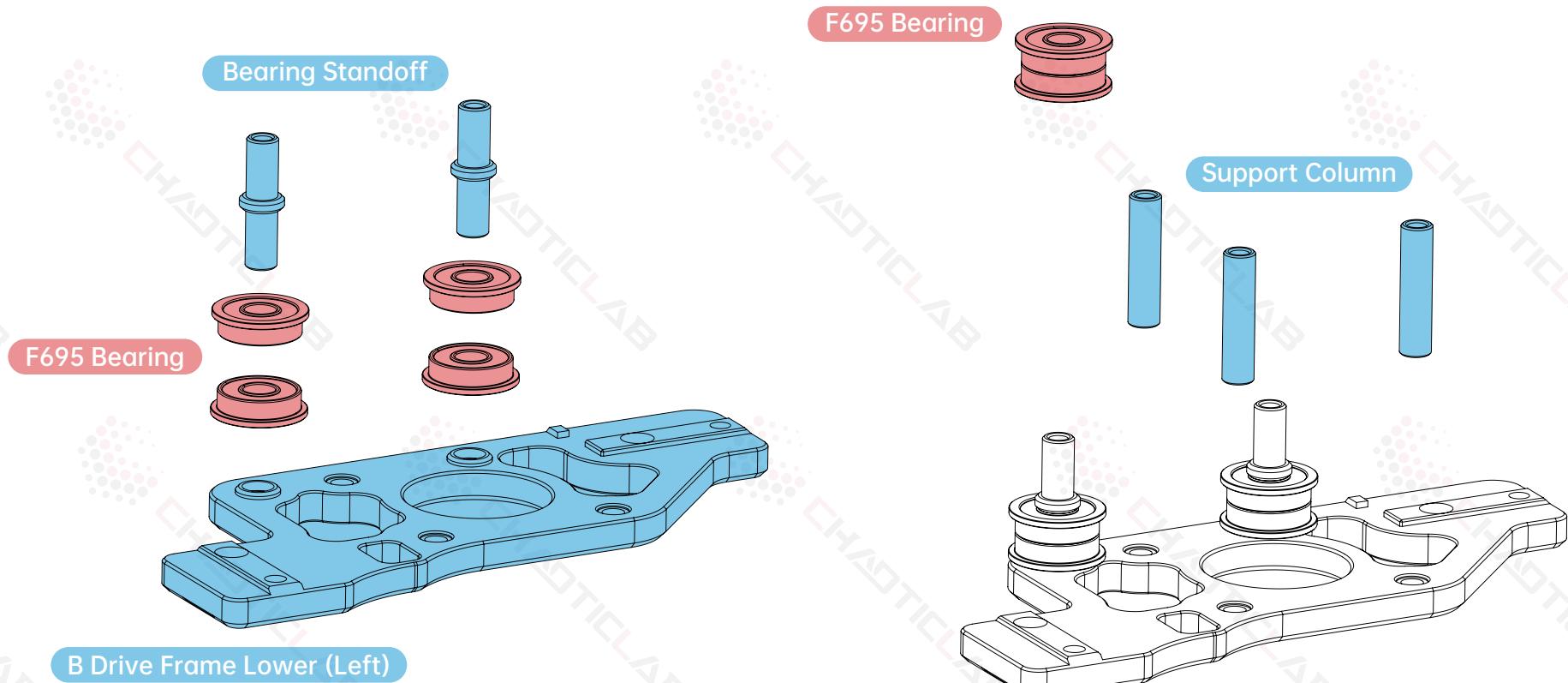


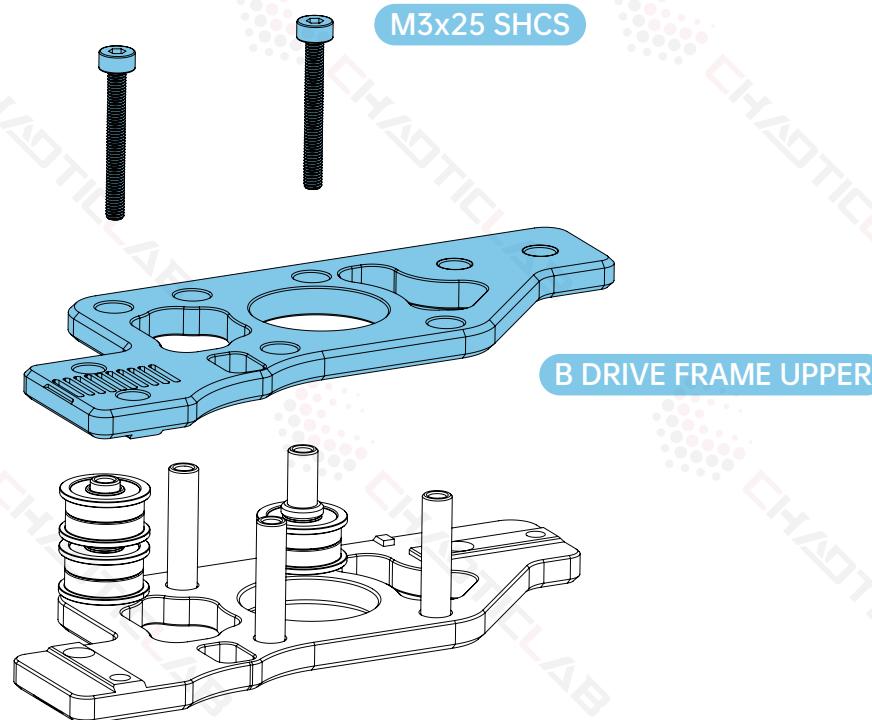
### MOTOR POSITION

Take note of the exact placement of the cable exit.

## B DRIVE (LEFT)

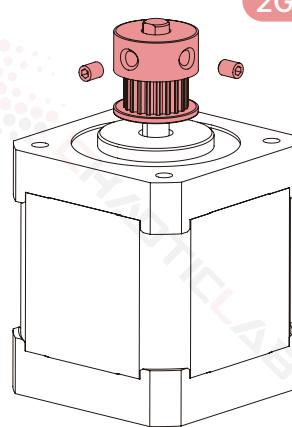
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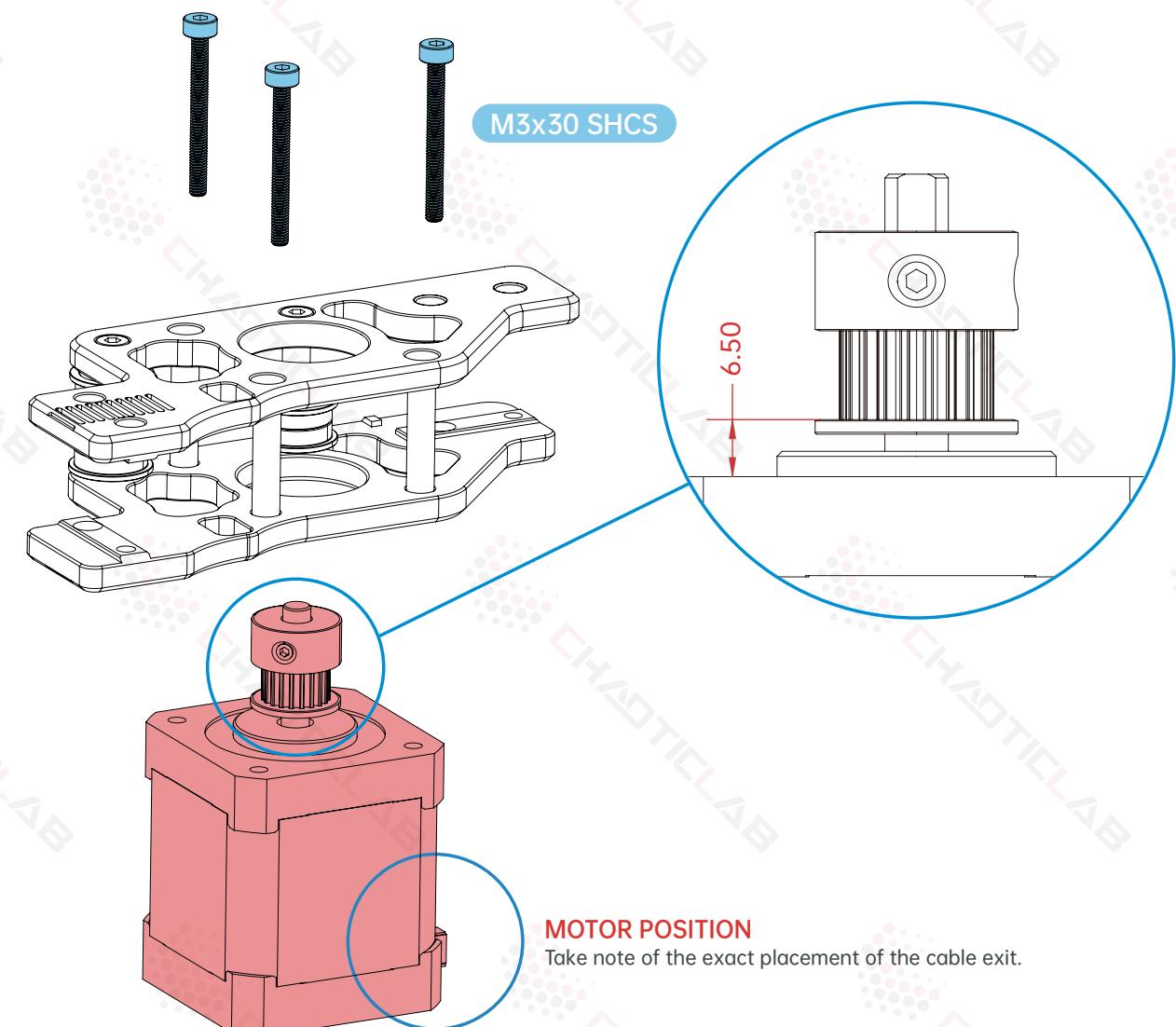


## B DRIVE (LEFT)

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2GT 20 Tooth Pulley



M3x30 SHCS

### SET SCREW INSTALLATION AND THREAD LOCKING

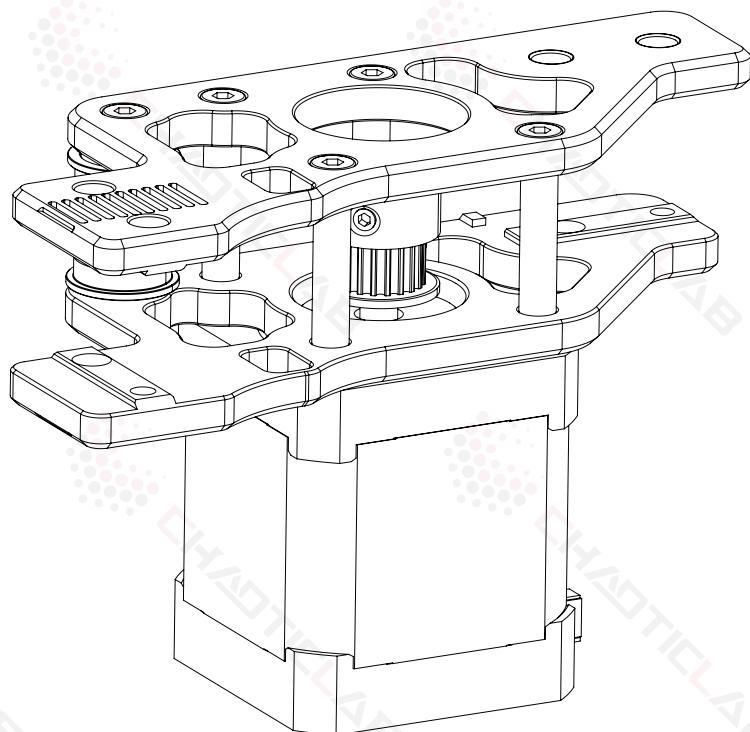
Ensure that one of the set screws is positioned with the D cut, and apply thread locker to the set screws.

### MOTOR POSITION

Take note of the exact placement of the cable exit.

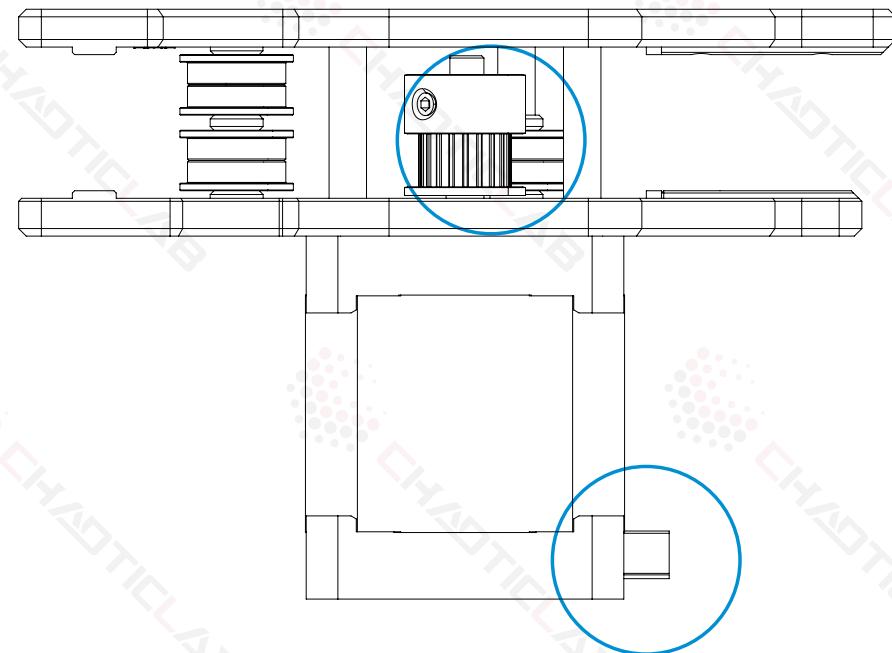
## B DRIVE (LEFT)

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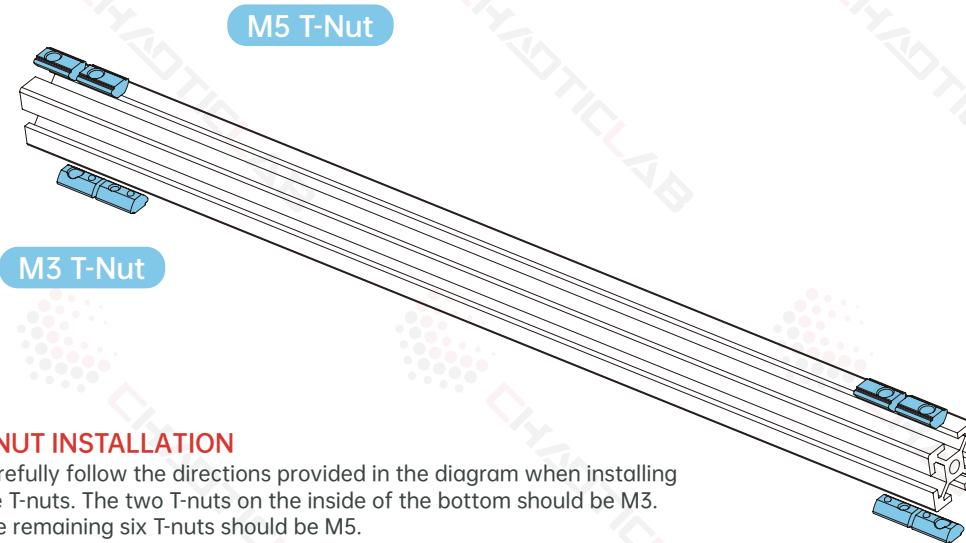
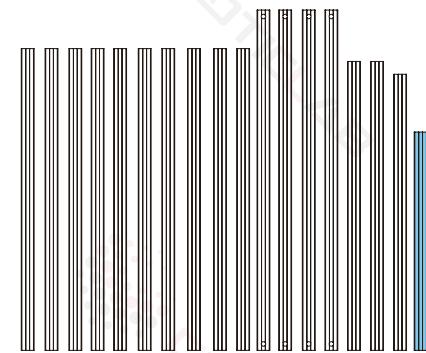
### ASSESS YOUR WORK

Compare your assembled part to the illustration provided here.  
Pay attention to the placement of the pulley and alignment  
with the bearing stock ups.

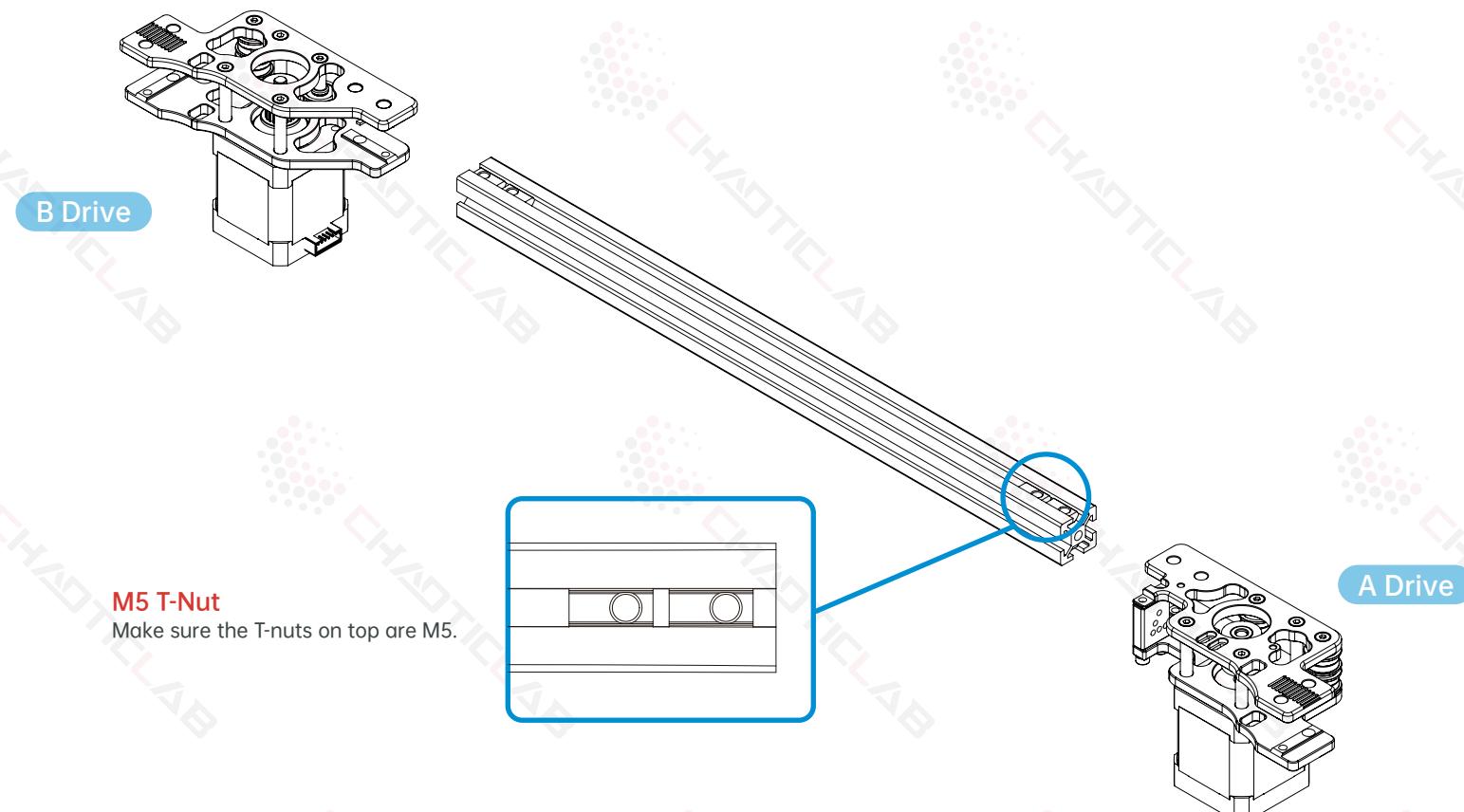


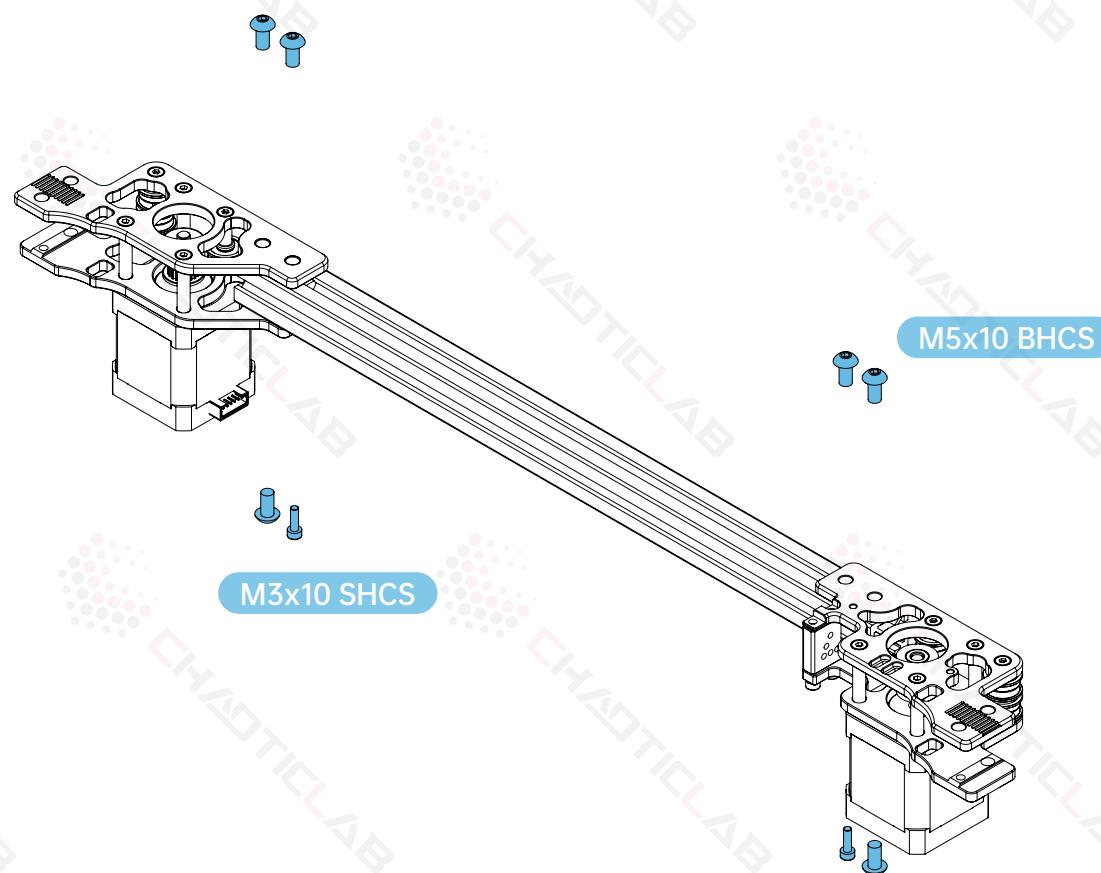
### MOTOR POSITION

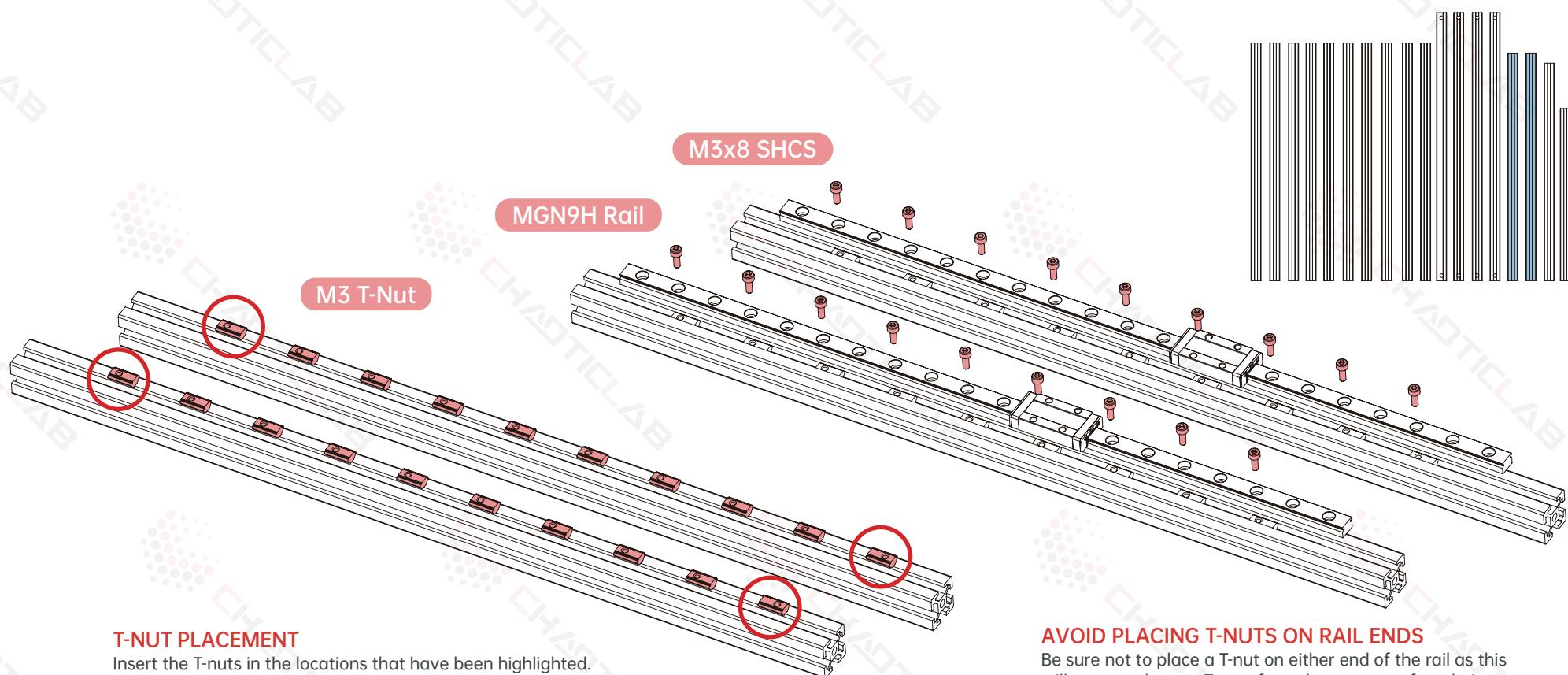
Take note of the exact placement of the cable exit.

**T-NUT INSTALLATION**

Carefully follow the directions provided in the diagram when installing the T-nuts. The two T-nuts on the inside of the bottom should be M3. The remaining six T-nuts should be M5.







#### T-NUT PLACEMENT

Insert the T-nuts in the locations that have been highlighted.

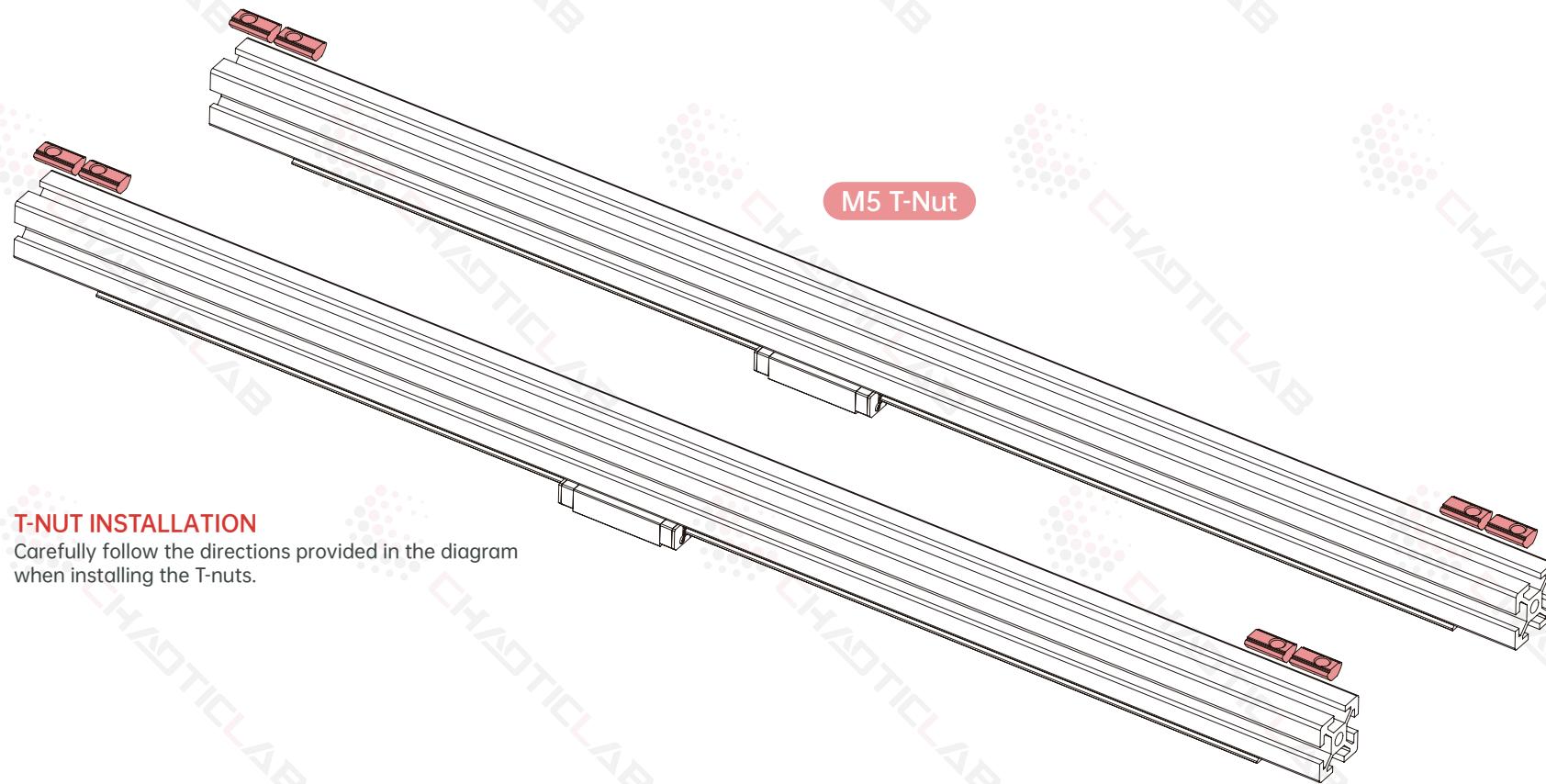
#### AVOID PLACING T-NUTS ON RAIL ENDS

Be sure not to place a T-nut on either end of the rail as this will prevent the two T-nuts from the next step from being placed correctly.

#### HANDLE THE CARRIAGE WITH CARE

The carriages have been designed to easily slide along the rail, however, this also means that they can slide off the rails. Please be careful to not slide the carriage off the rails as this can cause irreparable damage to it.



**T-NUT INSTALLATION**

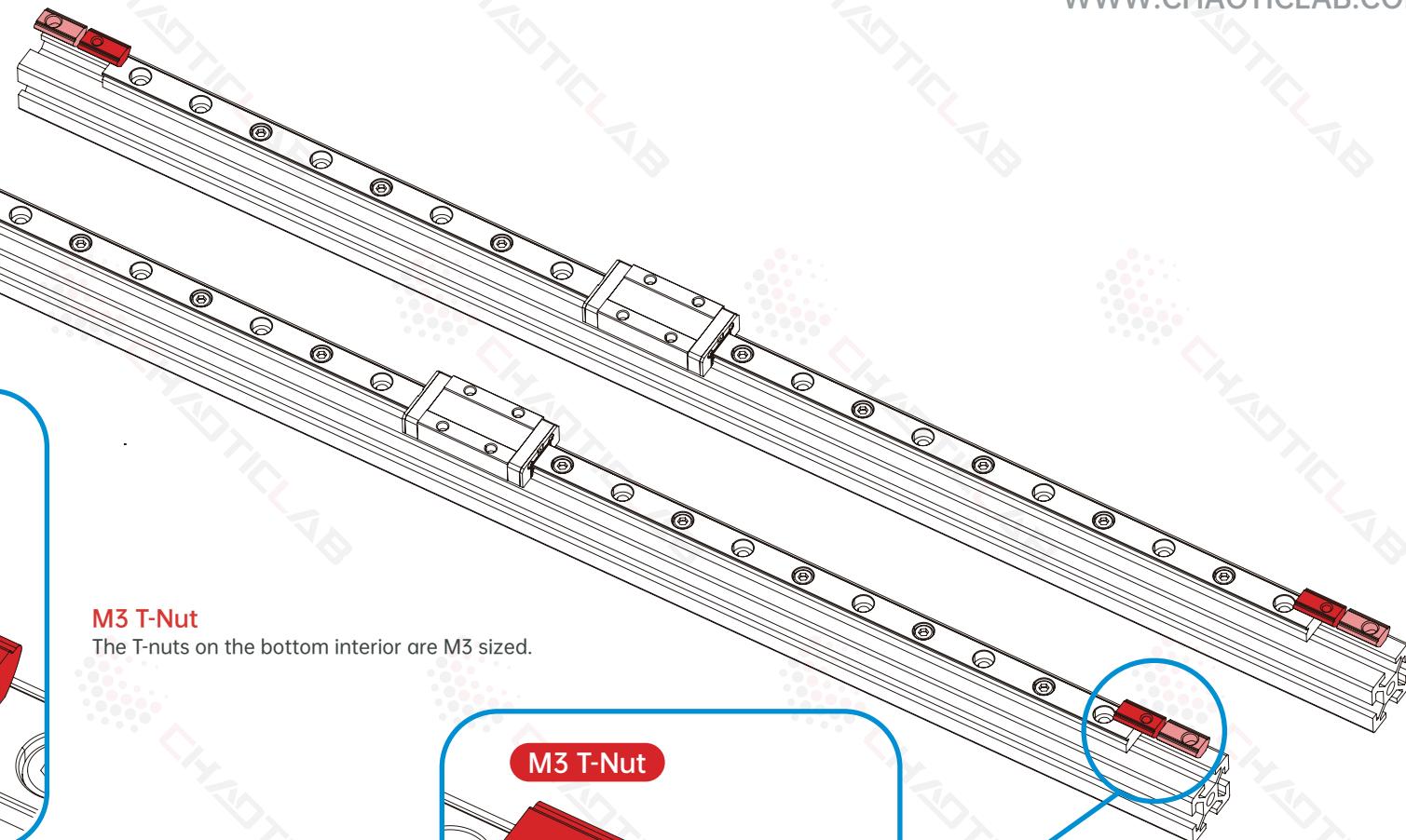
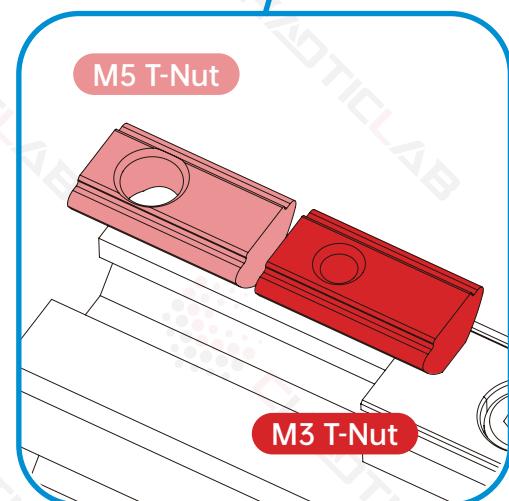
Carefully follow the directions provided in the diagram when installing the T-nuts.

**TIP**

The M5 T-nuts required for this step can be found in the CNC Z Joint Kit.

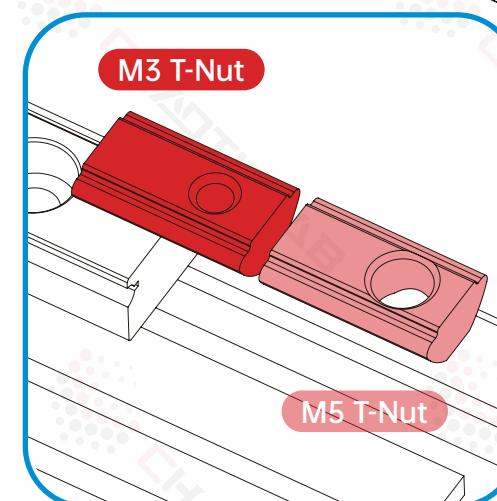
Y AXIS

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**M3 T-Nut**

The T-nuts on the bottom interior are M3 sized.

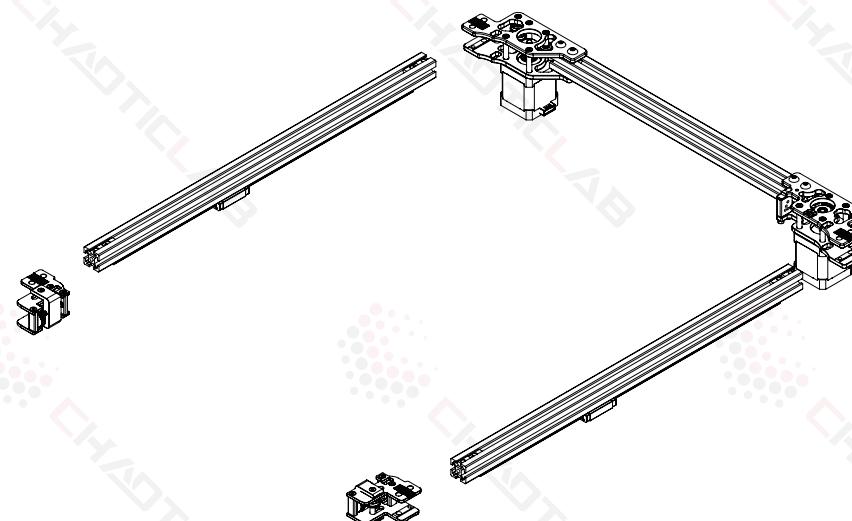


**TIP**

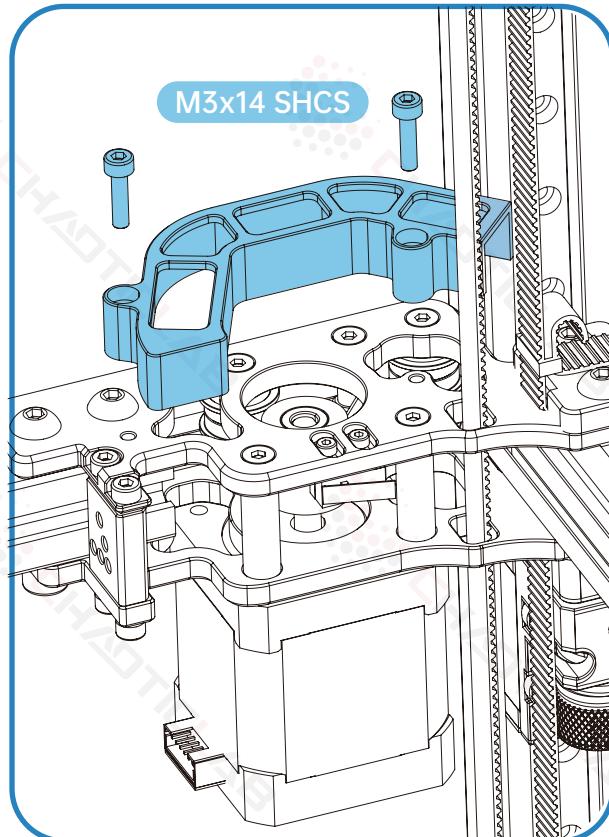
The M5 and M3 T-nuts required for this step can be found in the CNC Z Joint Kit.

Y AXIS

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If you are using a CAN bus cable, please skip this step and refer to the next page for installing the flex-resistant cable sleeve.



### CABLE COVER

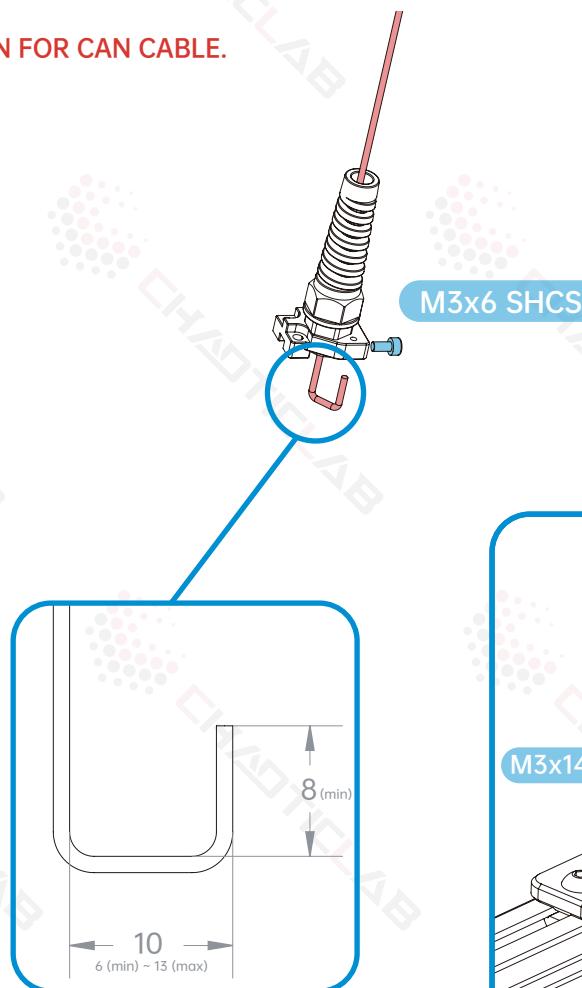
Ensure that the cable wiring has been completed before installing this component.

## FLEX-RESISTANT CABLE SLEEVE INSTALLATION FOR CAN CABLE.



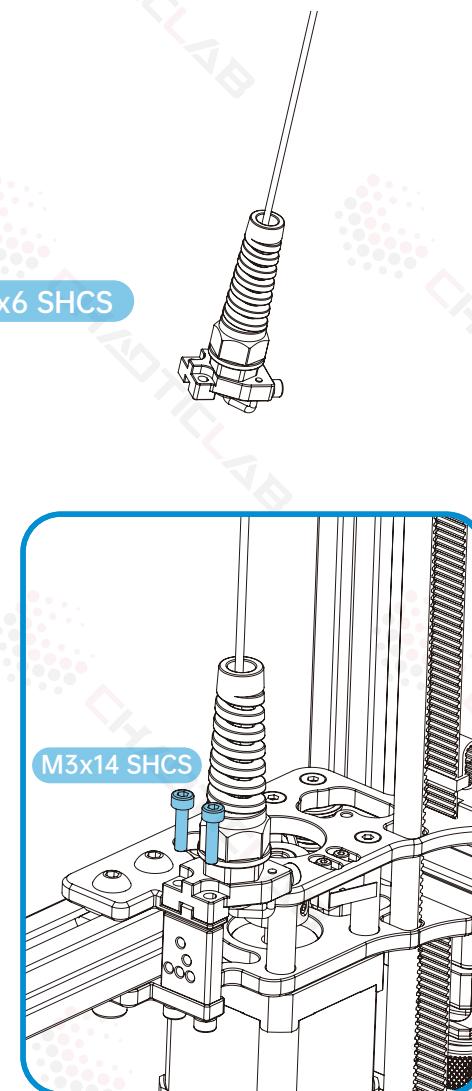
M12 Cable Protector Bracket

\*Before beginning the installation,  
please remove the hex nut from  
the bottom and expose the threads.



### STEEL WIRE

The diameter of the steel wire  
should not exceed 2mm.



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Website

[www.chaoticlab.xyz](http://www.chaoticlab.xyz)

G itHub

[github.com/chaoticlab](https://github.com/chaoticlab)

D iscord

[discord.gg/uUCX666tk2](https://discord.gg/uUCX666tk2)

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