ezrobot

KI-0555 EZ-inMoov Robot Head Kit - Assembly Instructions

HARDWARE LIST

M3 x 0.5mm
Length: 14mm
Black-Oxide
Hex drive Flat Head
Machine Screw

x 34

M2 x 0.4mm
Length: 20mm
Black-Oxide
Hex drive Flat Head
Machine Screw

x 4

No. 8
Length: ¾”
Flat Head Phillips
Wood/Metal Screw

x 14

M3
Length: 10mm
Pan Head Phillips
Thread forming
Screw

x 37

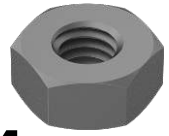
M2
Length: 10mm
Flange Head Phillips
Wood/Metal Screw

x 25

M3 x 0.5mm
Length: 6mm
Black-Oxide
Pan Head Phillips
Machine Screw

x 4

M3 x 0.5mm
Steel Hex Nut



x 4

TOOL LIST

2mm
Allen Key

1.27mm
Allen Key

No.2
Phillips
Screwdriver

No.2
Phillips
Screwdriver

No.1
Phillips
Screwdriver

No.1
Phillips
Screwdriver

Needlenose
Pliers

OPTIONAL TOOLS & MATERIALS

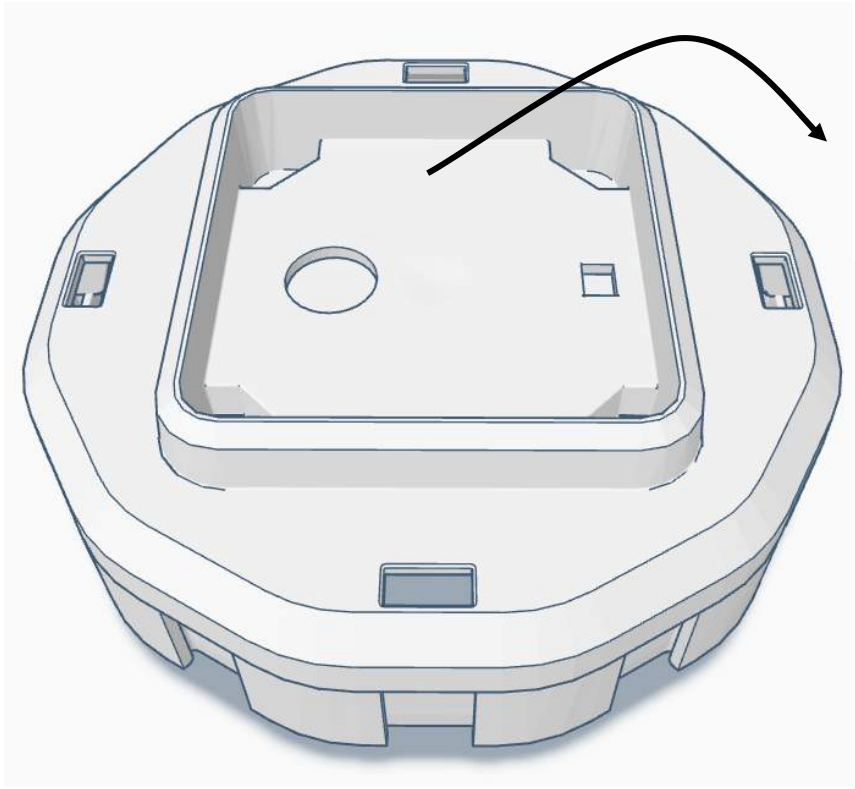
Electric Precision Screwdriver for threading hardware

Utility Knife for cleaning up 3D prints

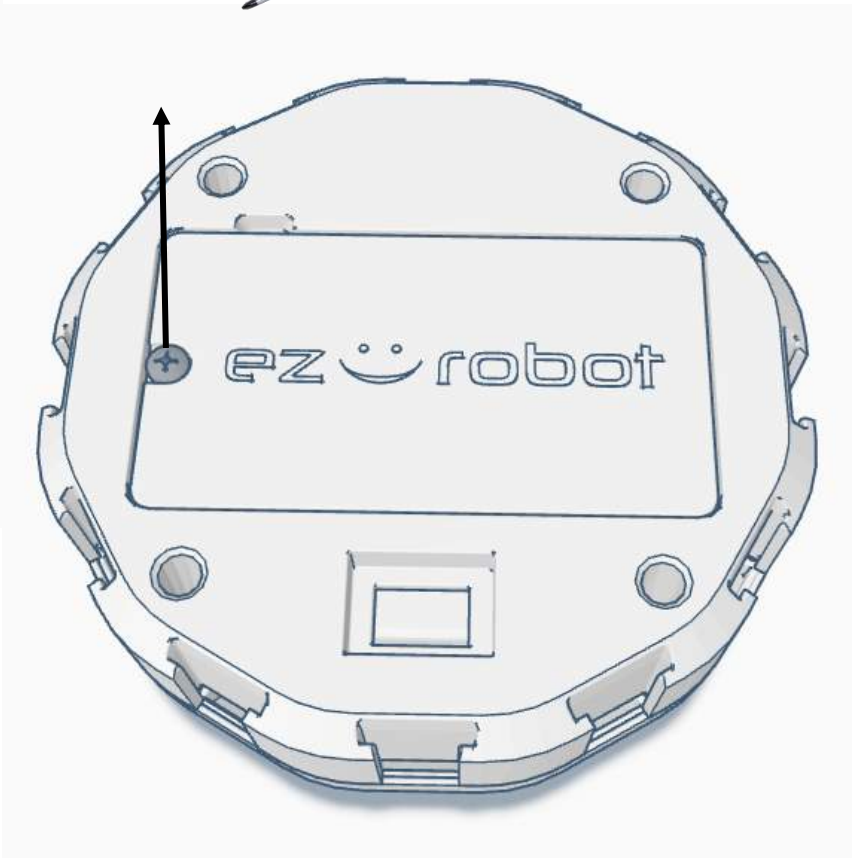
White Lithium Grease for lubricating 3D printed gears

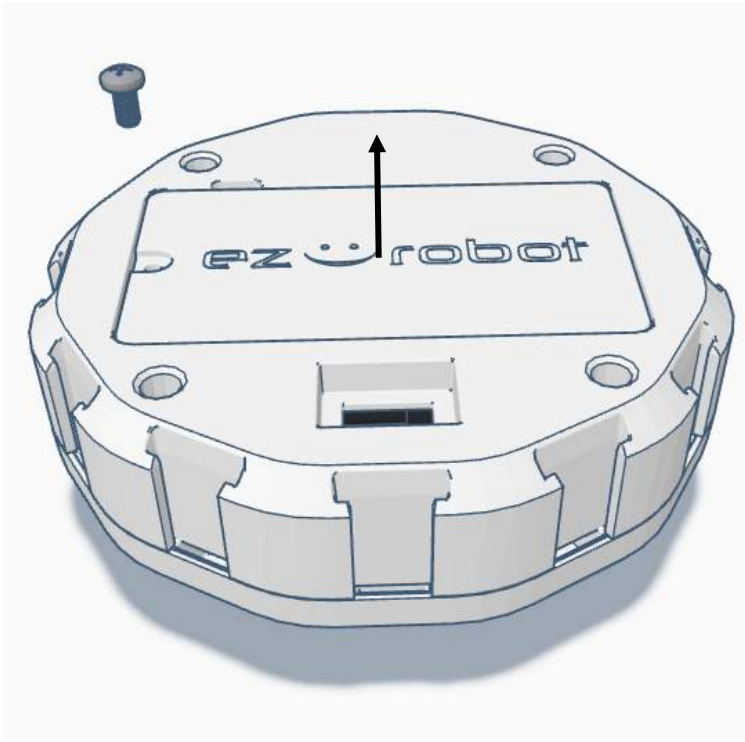
Side cutters used with Safety Glasses

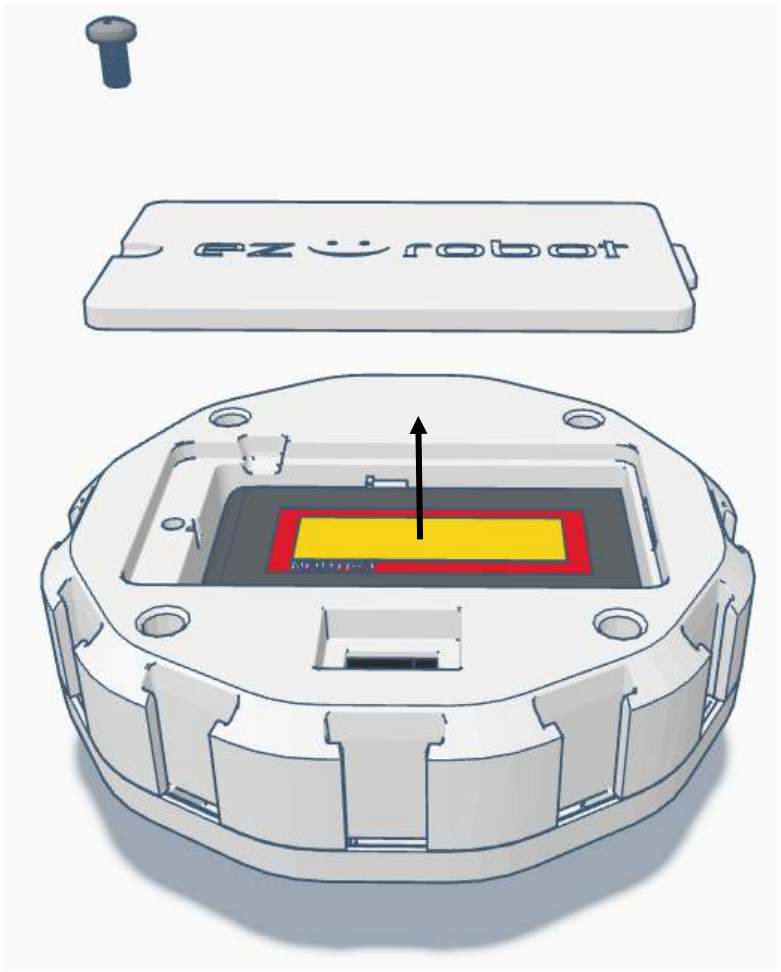
Needle Files for cleaning up 3D prints



No.1
Phillips
Screwdriver



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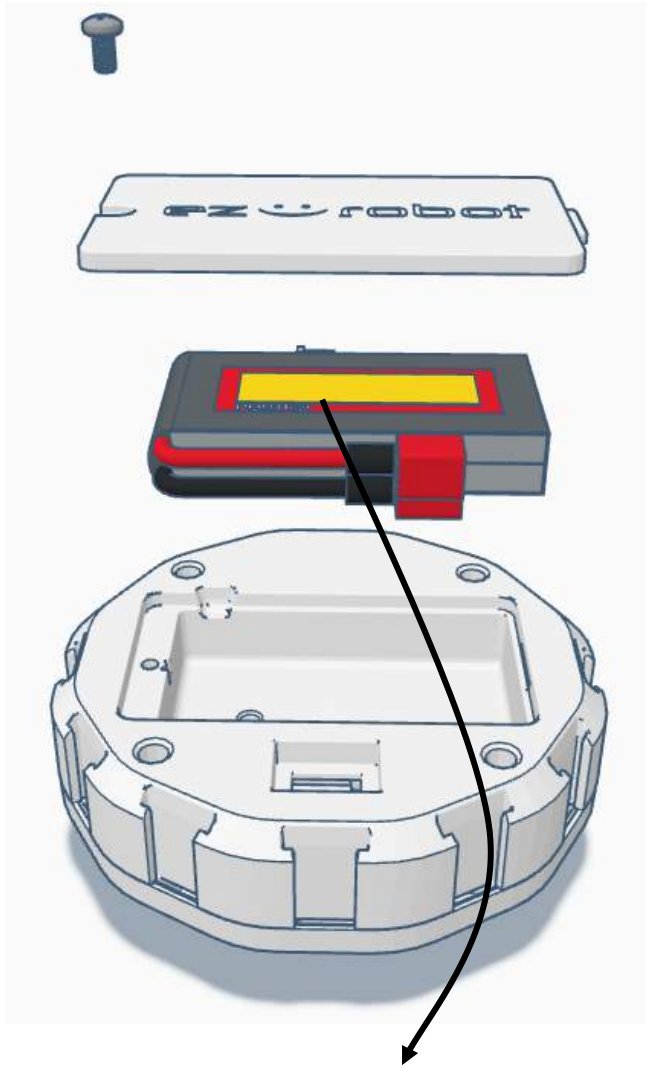
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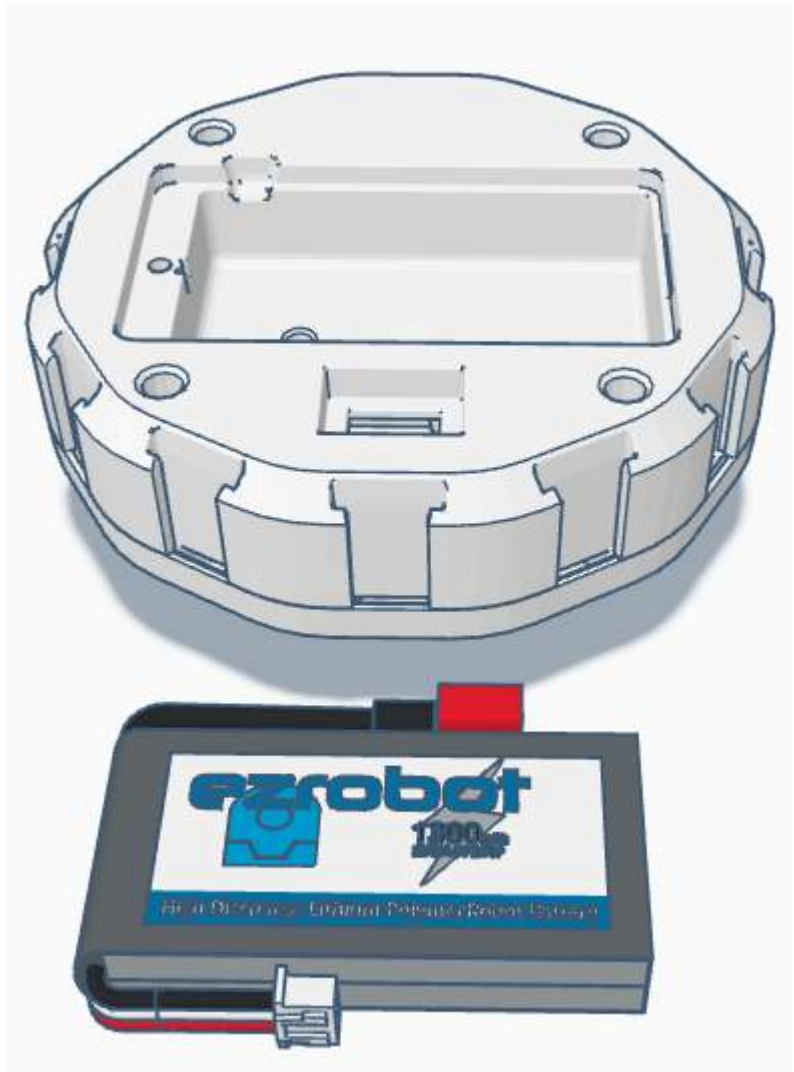
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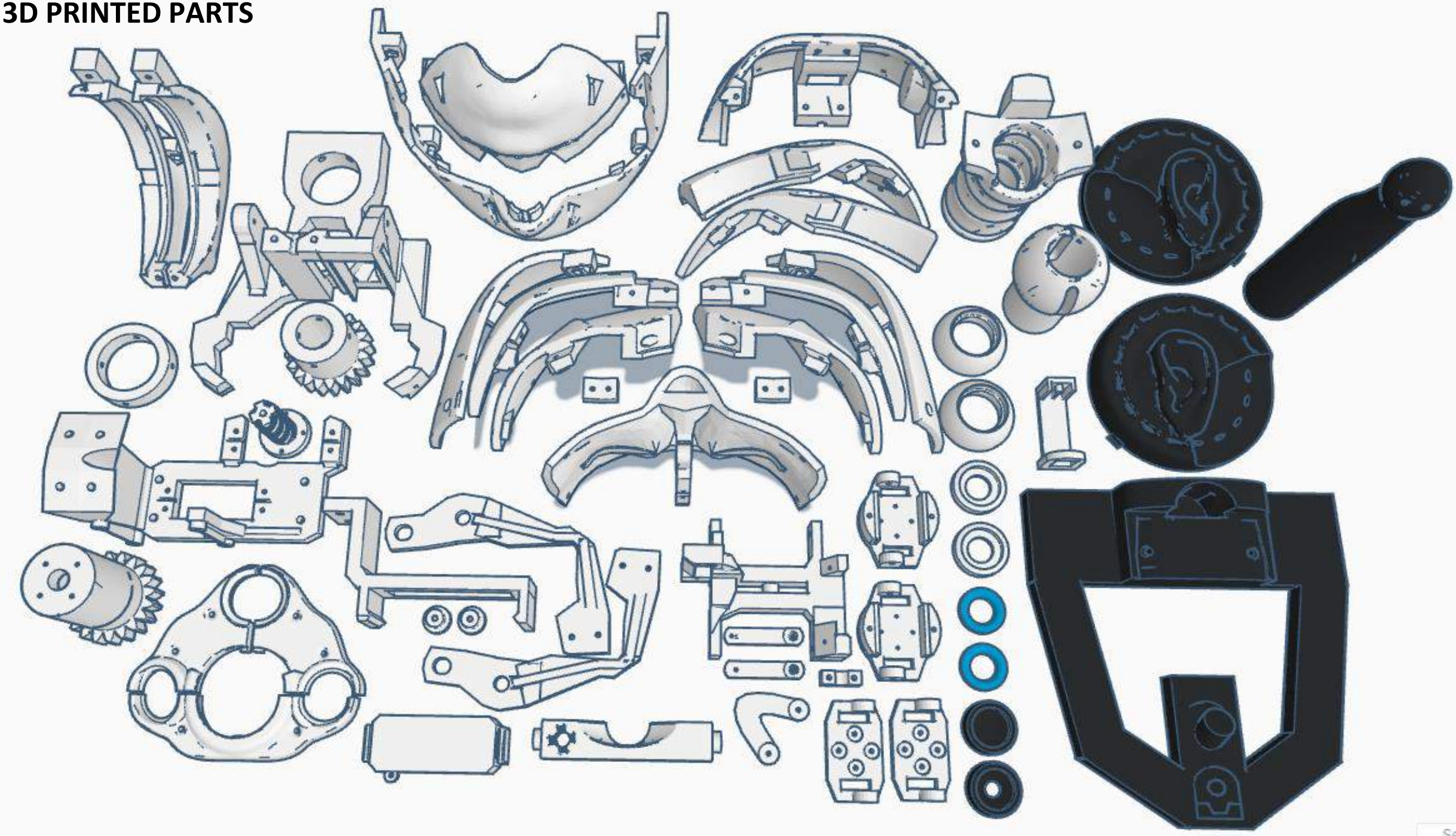
ELECTRONIC PARTS & HARDWARE

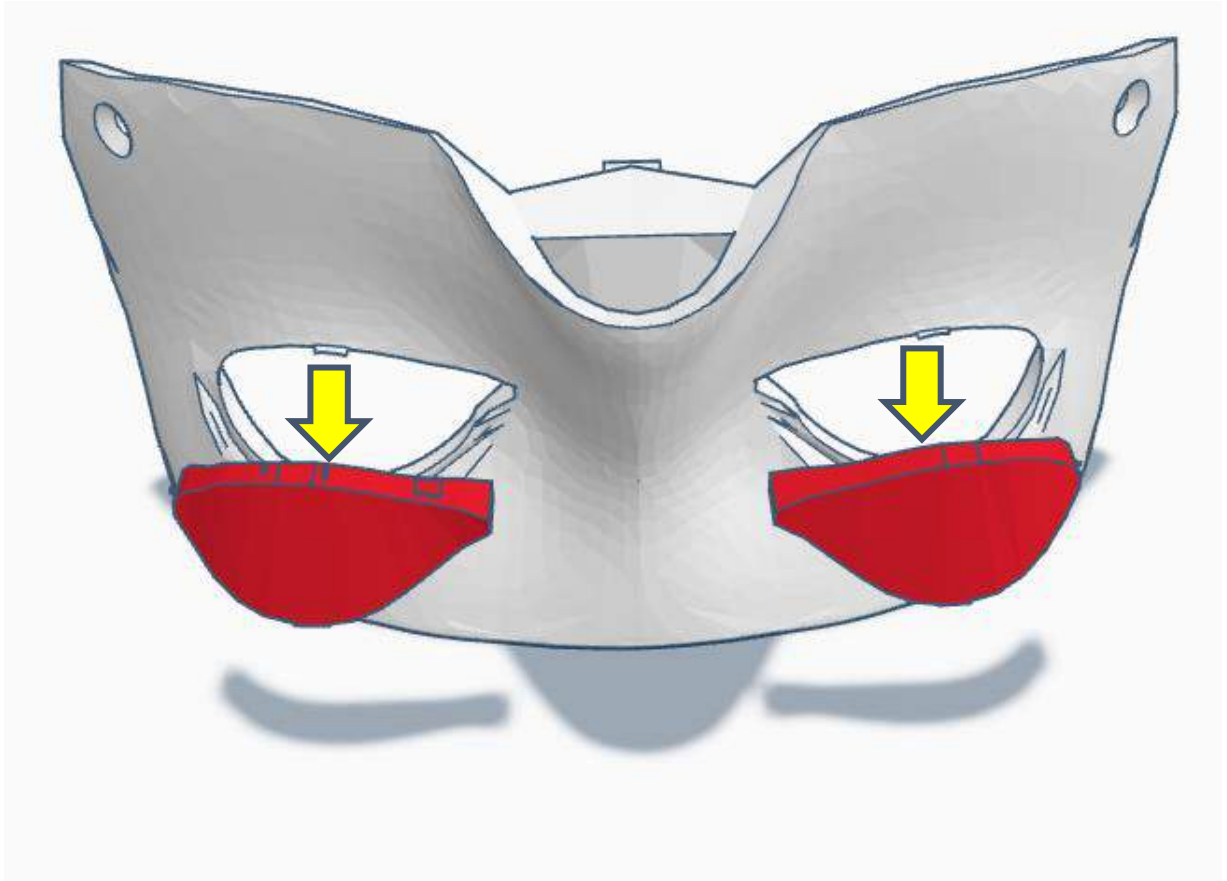
3D PRINTED PART LIST

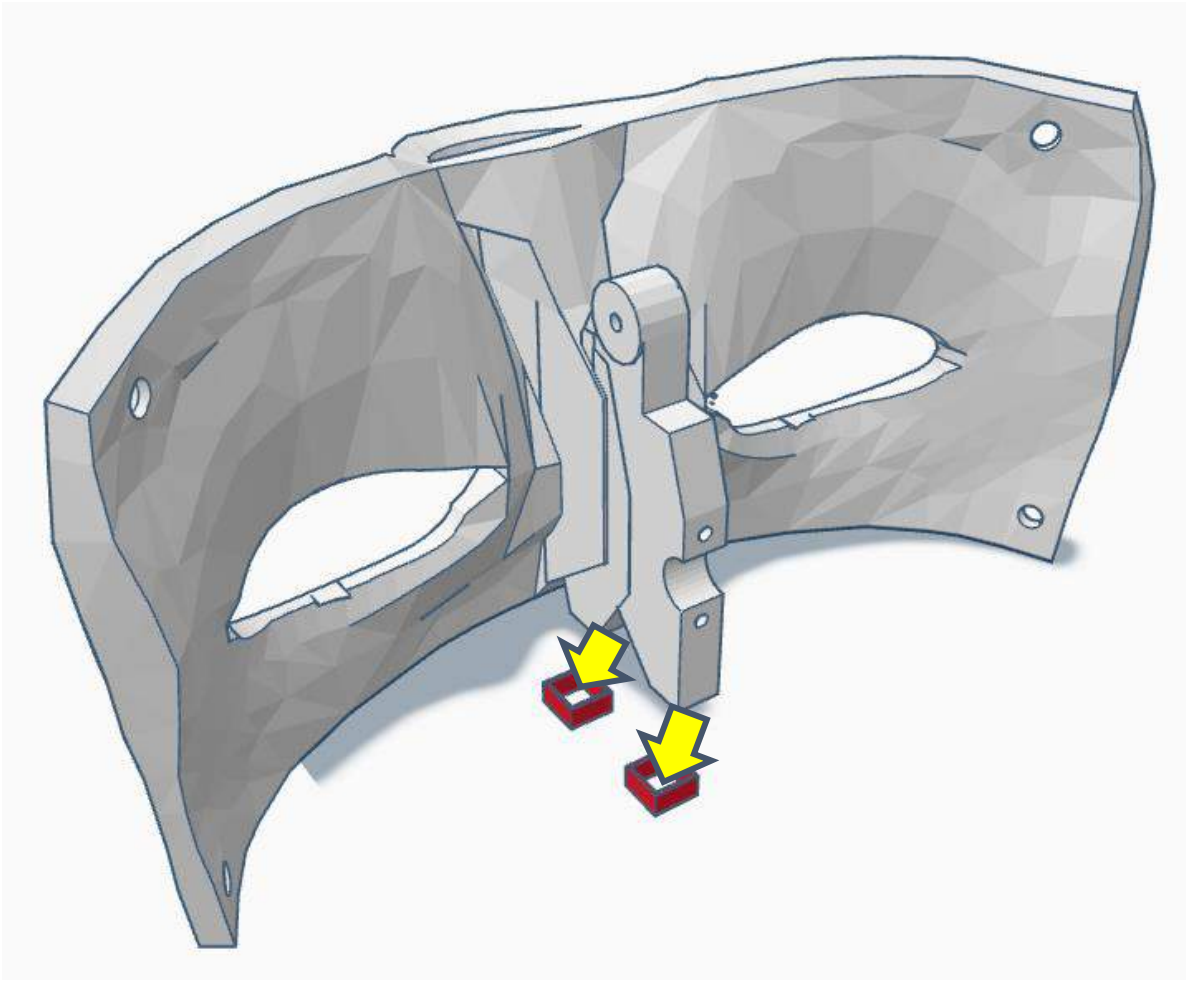
Qty	3D Printed Part	Recommended Color
1	EarLeftV1	Black
1	EarRightV1	Black
2	EyeBallSupportEZcameraV2	Any color
2	EyePlateV2	Any color
1	EyeBallCameraPupil	Black
1	EyeBallSolidPupil	Black
2	EyeBallV2	White
2	EyeBalliris	Blue, Green, Brown, etc.
2	EyeBallinsertV2	White
1	EyeglassV5	White
1	EyeHingeLeftV3	Any color
1	EyeHingeRightV3	Any color
1	EyeHingeCurveV1	Any color
1	EyeSupportV6	Any color
1	EyeHolderV1	Any color
1	ServoGearV3	White
1	MainGearV3	White
1	RingV3	Any color
1	VoiceBoxV1	White
1	JawPistonV2	White

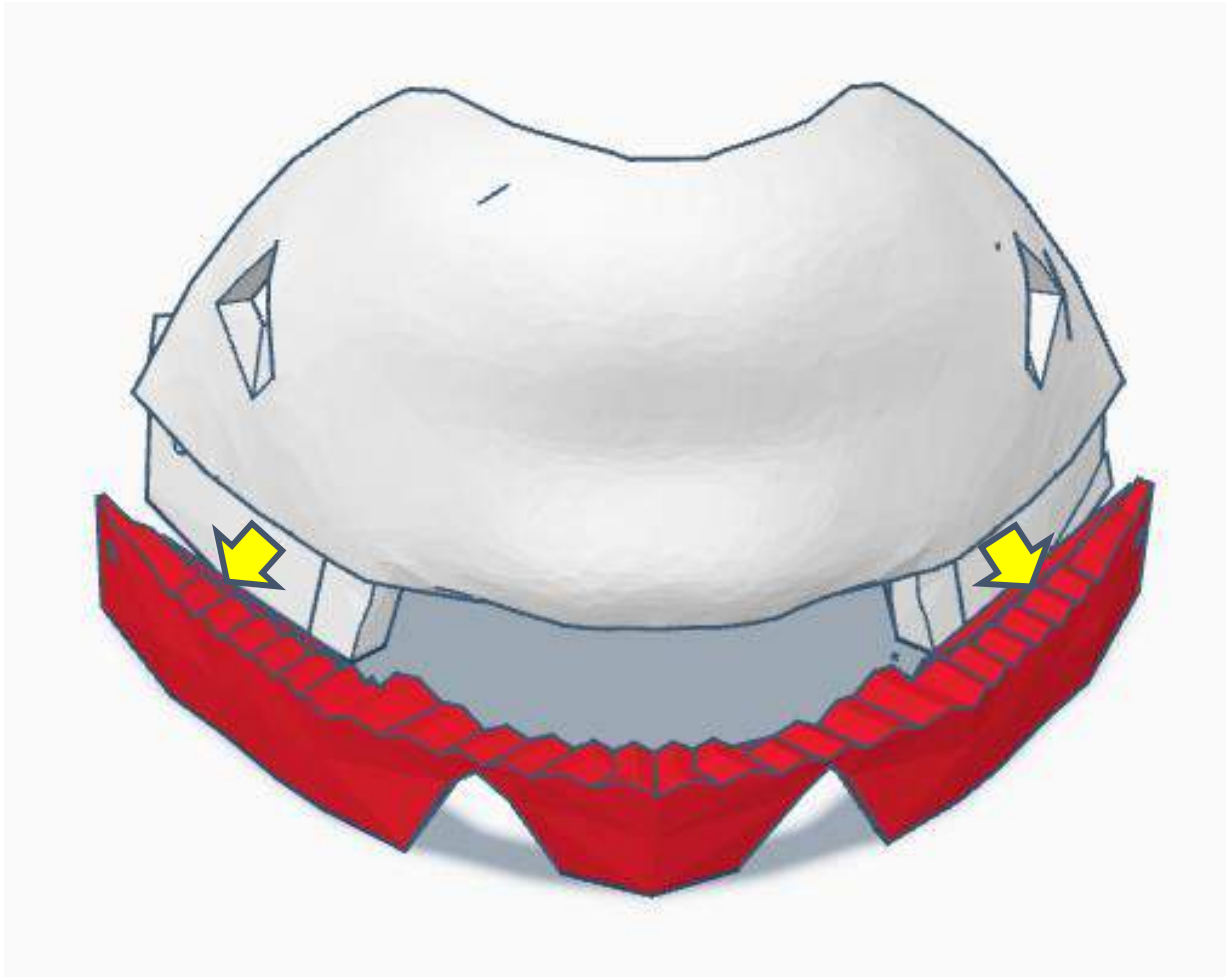
Qty	3D Printed Part	Recommended Color
1	JawSupportV2	White
1	JawHingeV1_wide	White
1	JawV5	White
2	PivotCupV2	Anycolor
1	Head_Stand_EZ-Robot_Logo	Black
1	NeckPistonFrontV2	Black
1	NeckPlateV3	White
1	NeckPlateHighV3	White
1	NeckJointLowerV5	White
1	NeckV3	White
1	LowBackV6	White
1	SideHearV5	White
1	TopBackSkullV5	White
1	TopMouthV5	White
1	TopSkullLeftV5	White
1	TopSkullRightV5	White
1	UnitedInternalSupportV1	Any color
1	BatterySupportV1	Any color
1	SkullServoV2	Any color
1	PowerClipV1	Any color

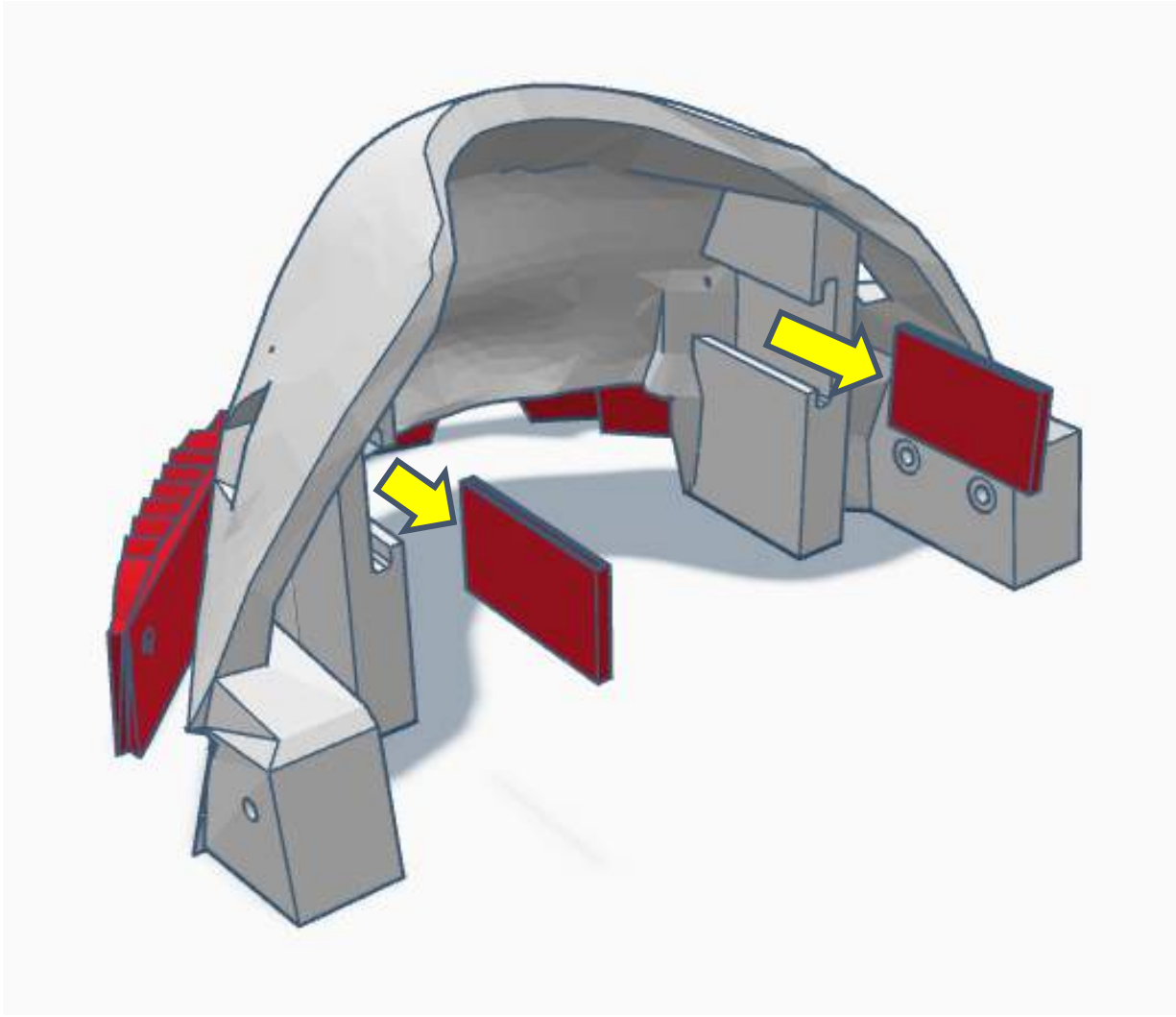
3D PRINTED PARTS

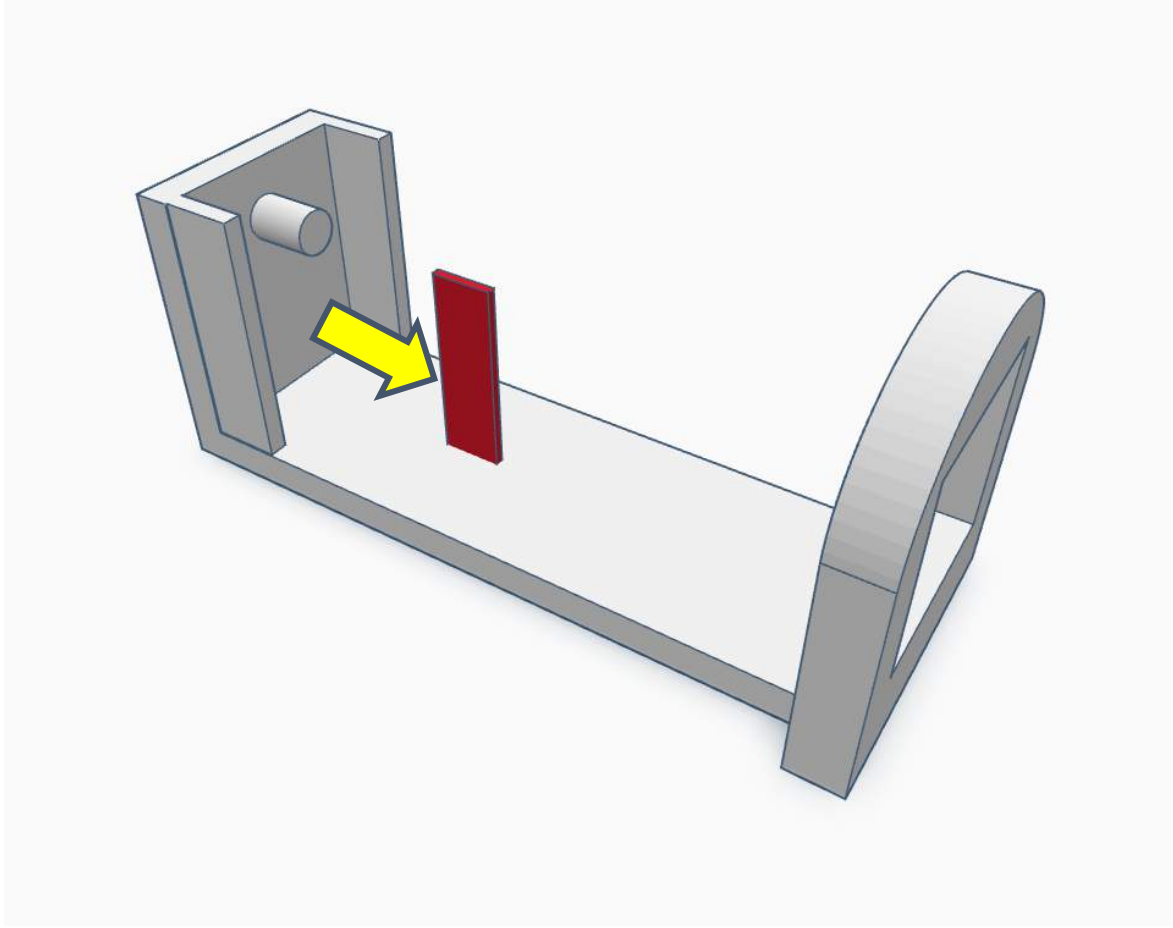


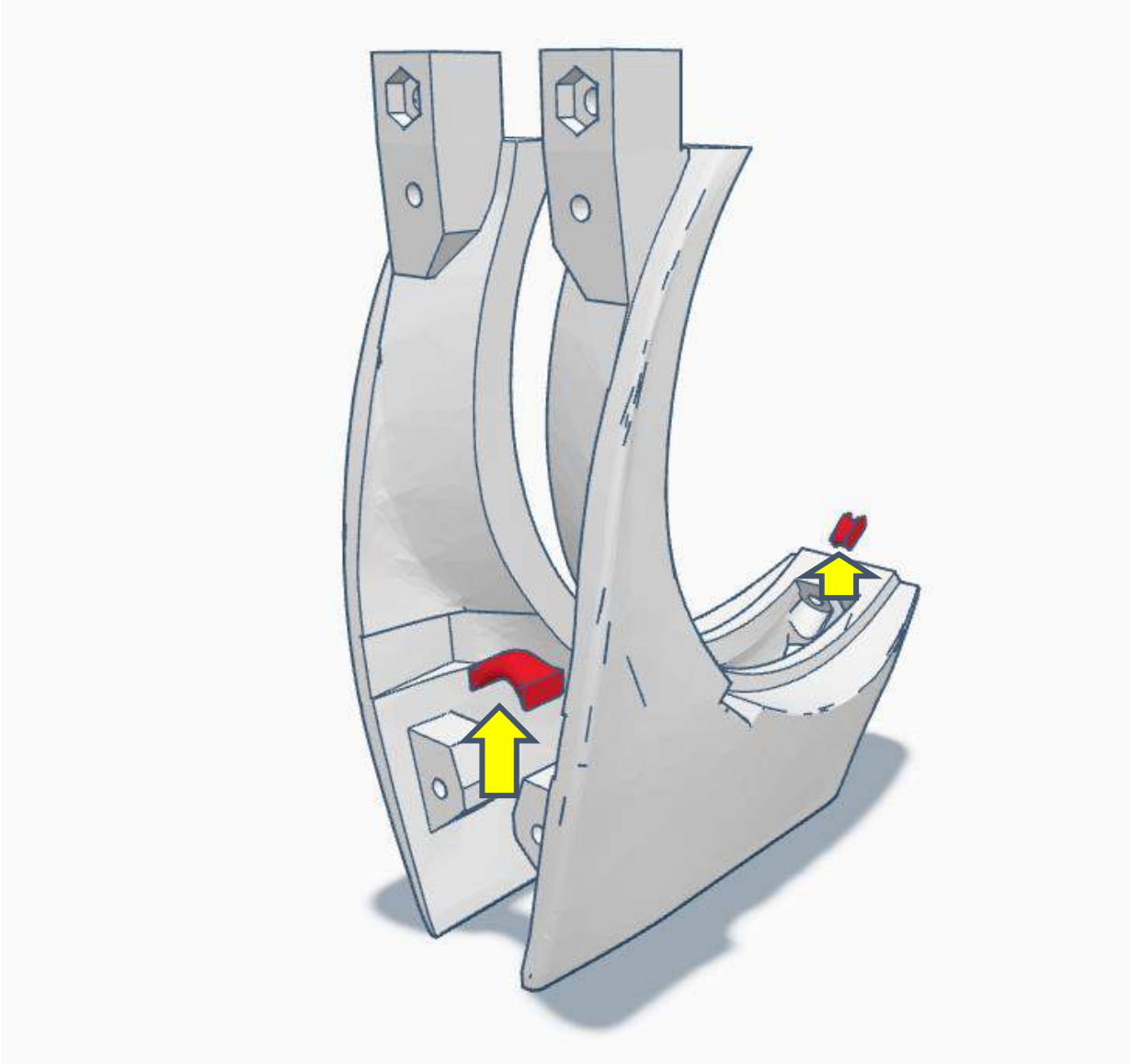


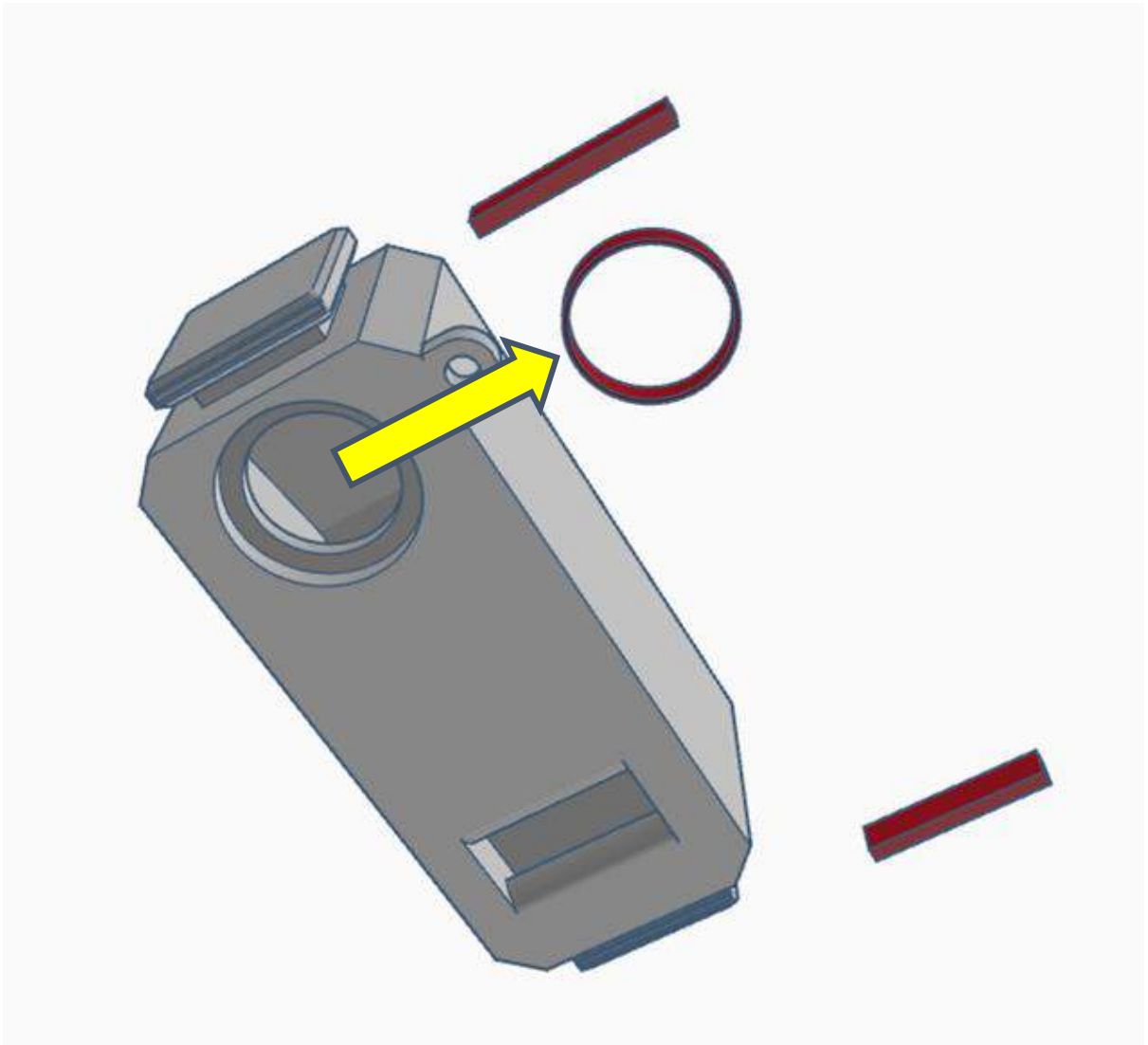


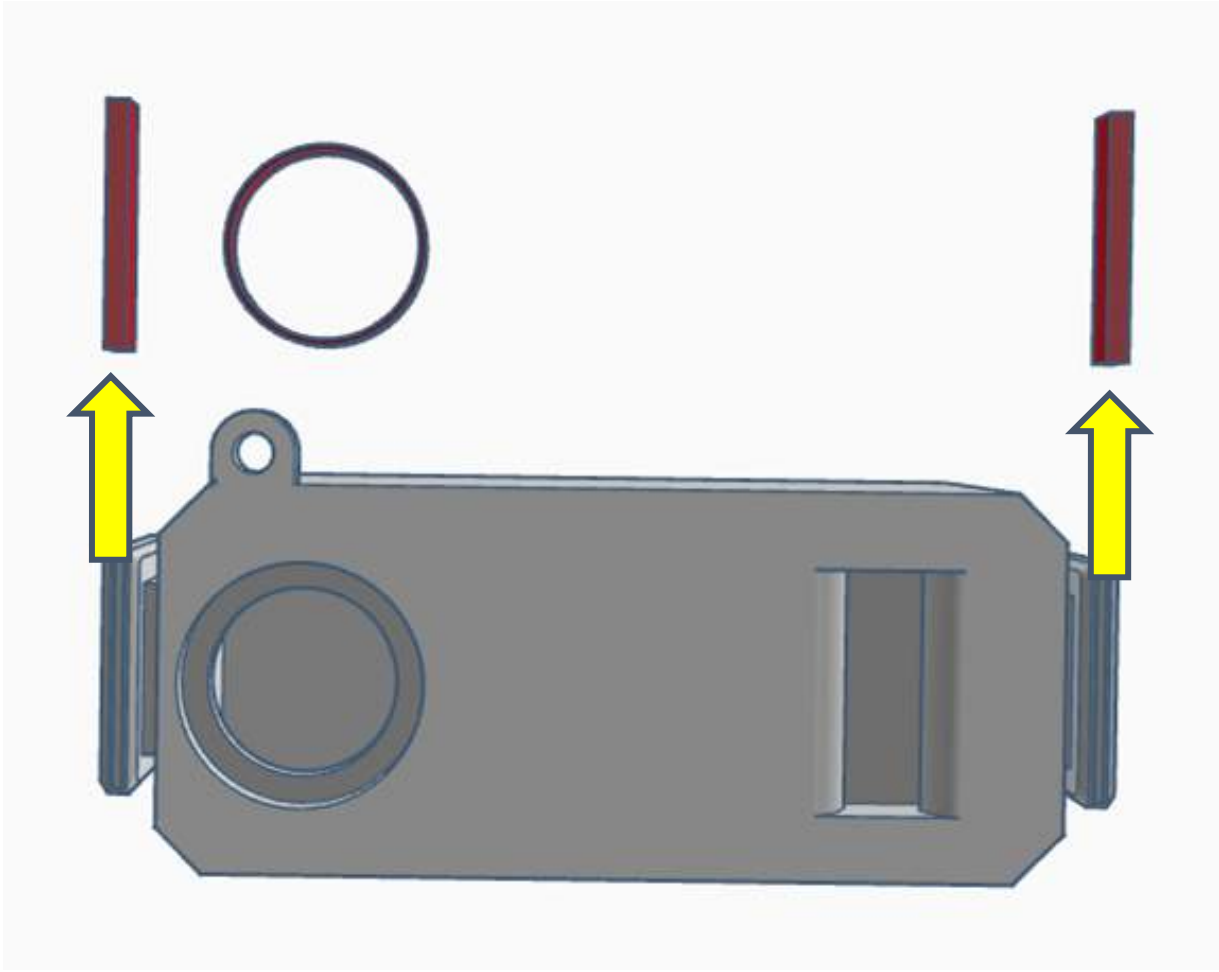


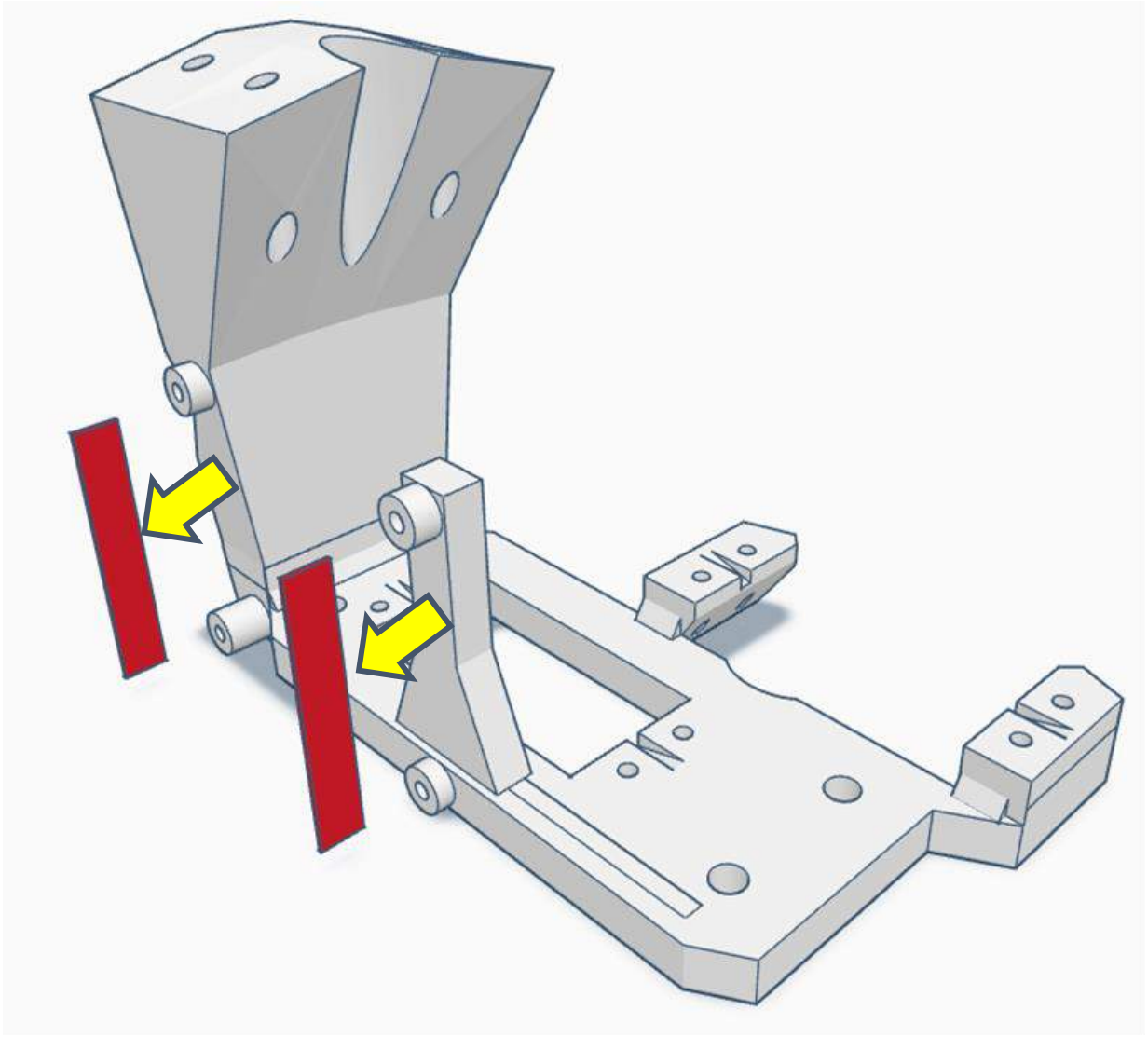


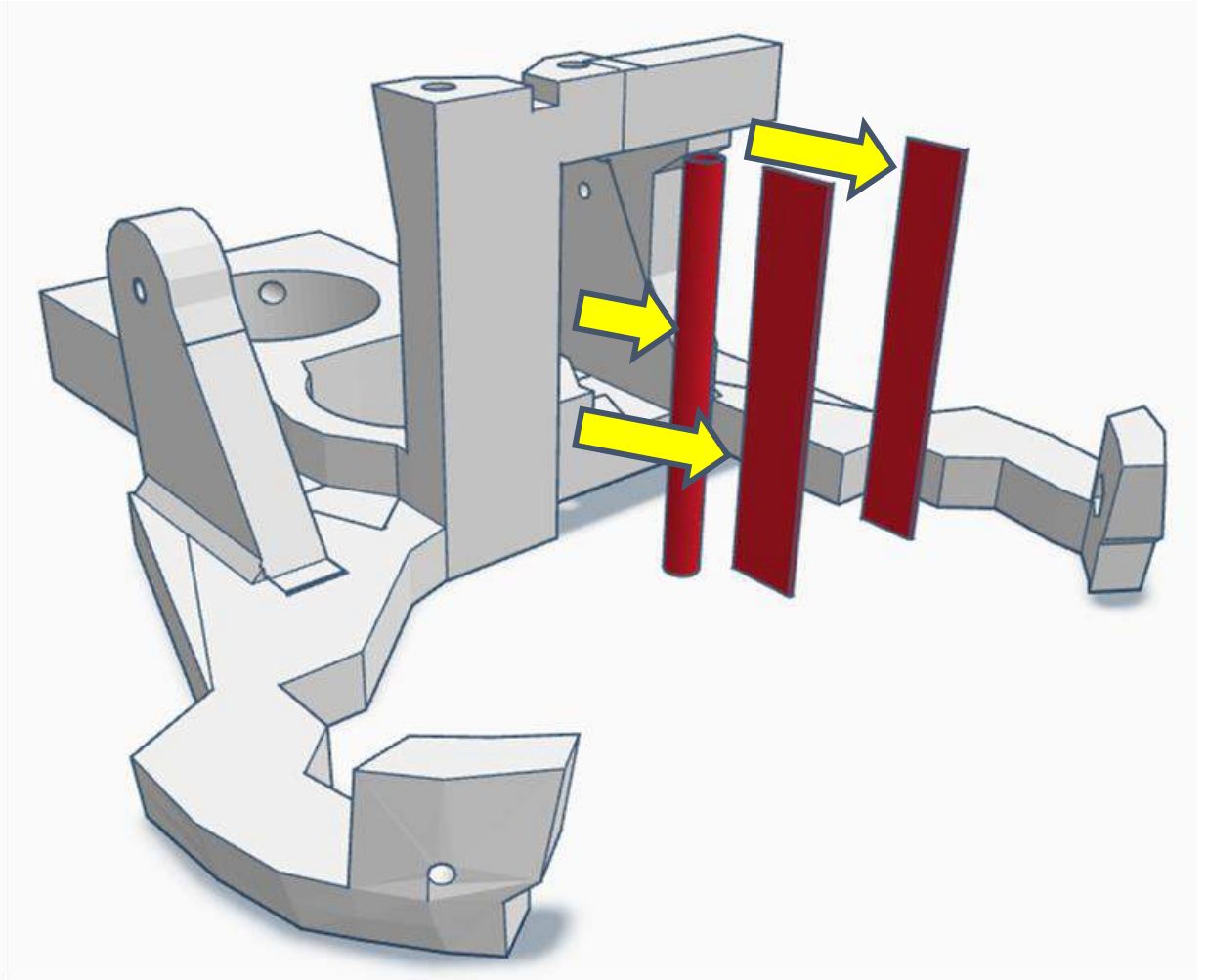


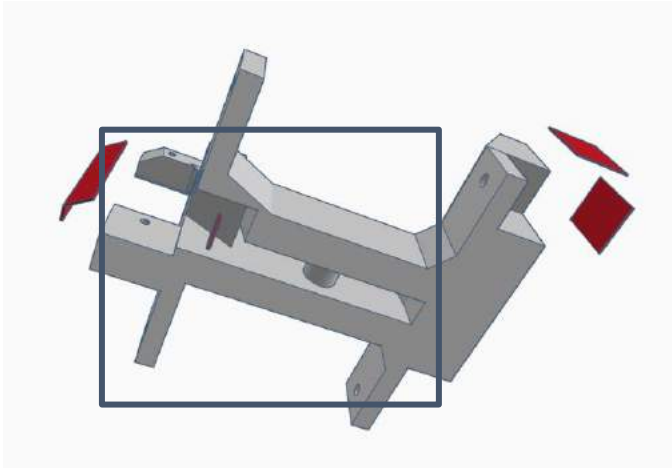


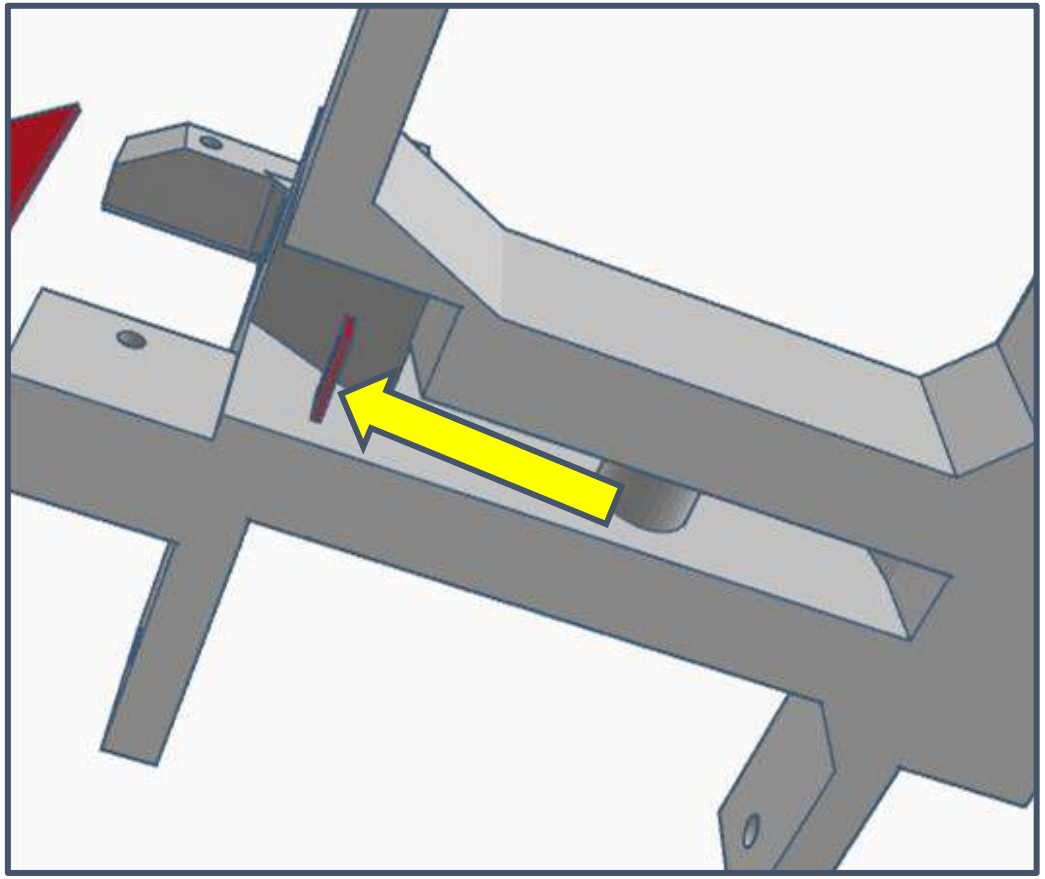


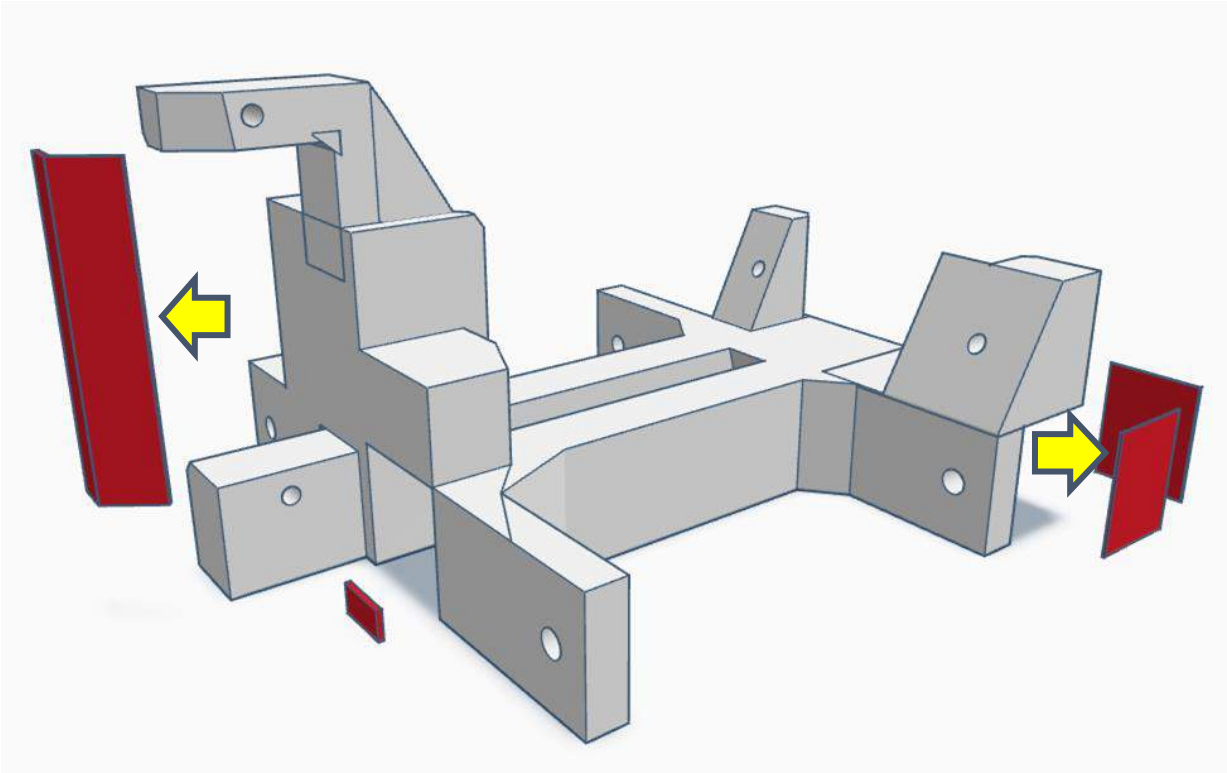


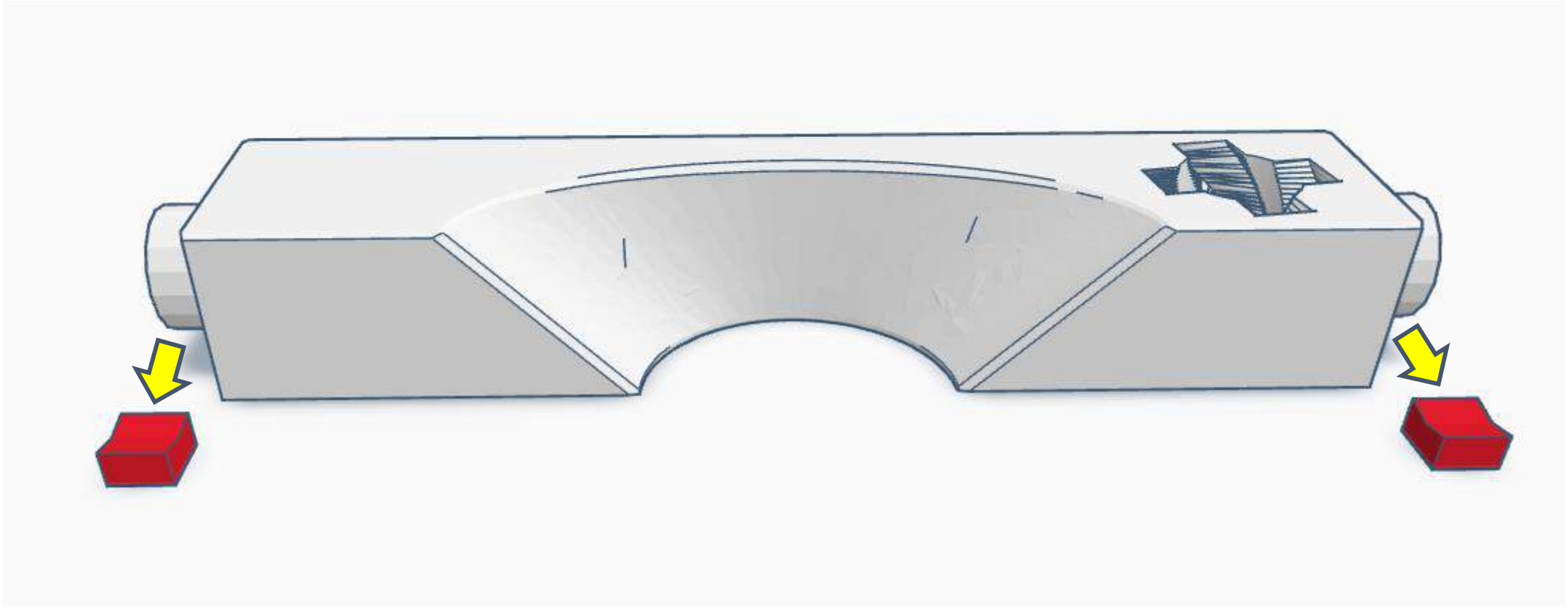












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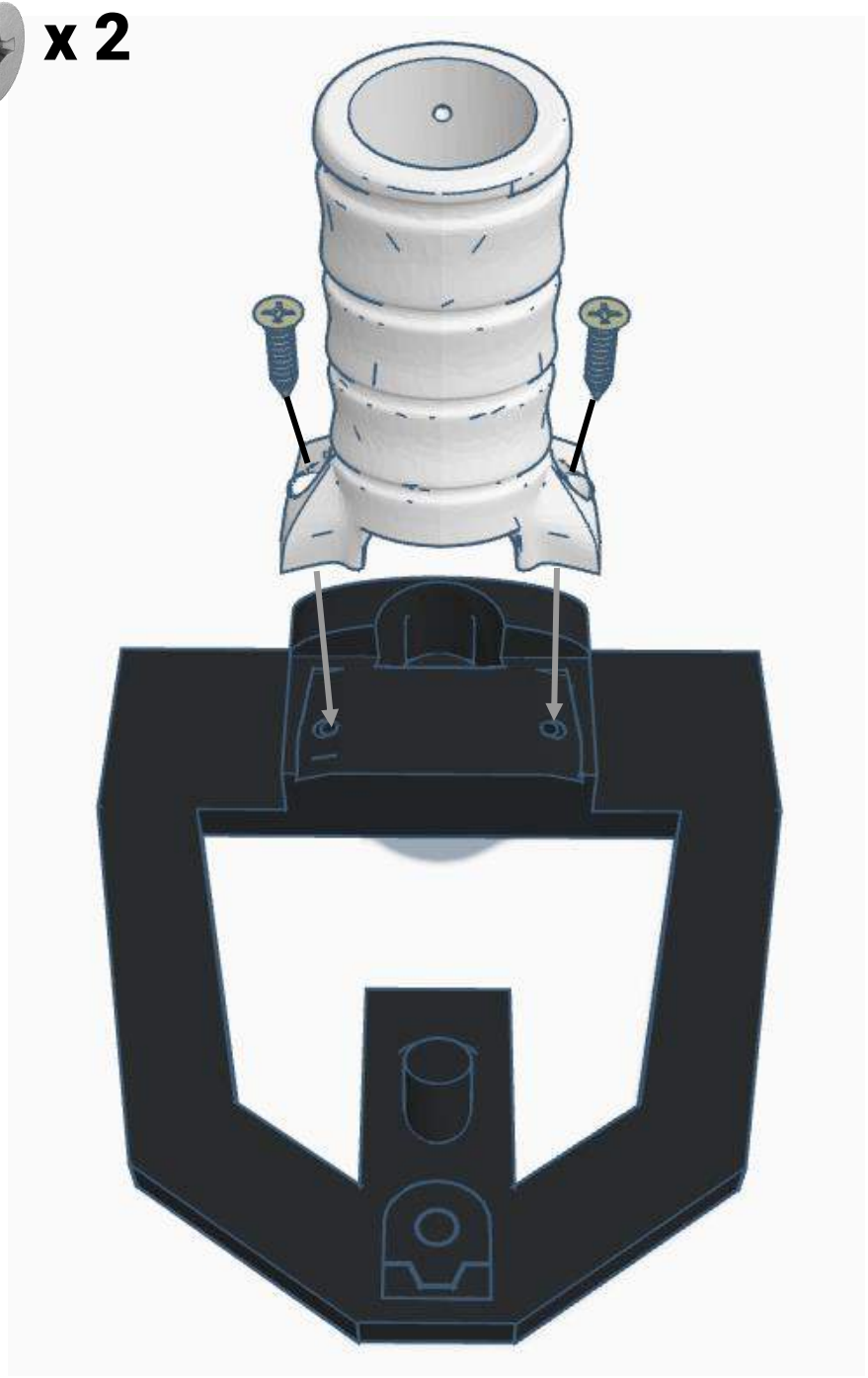

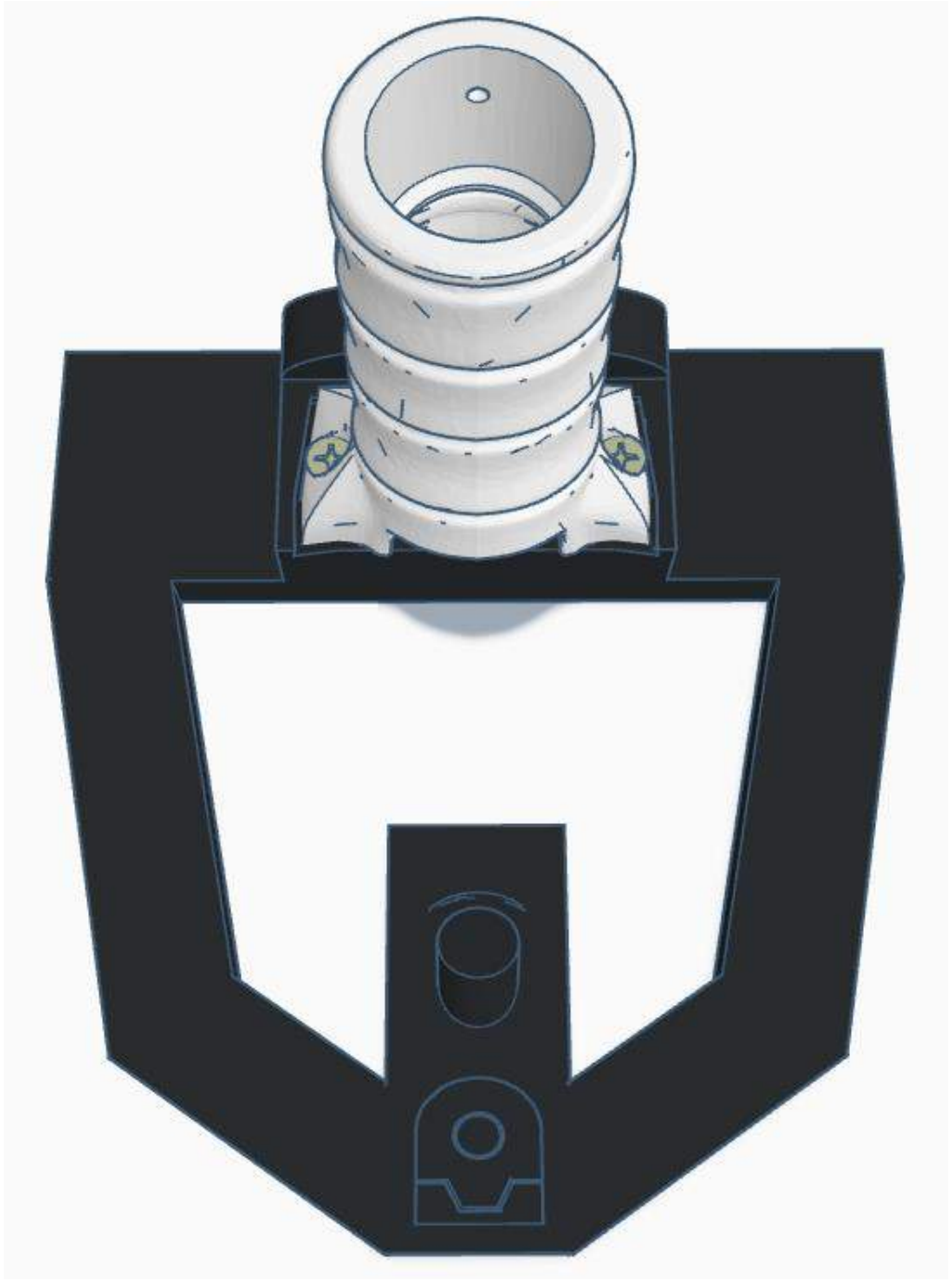

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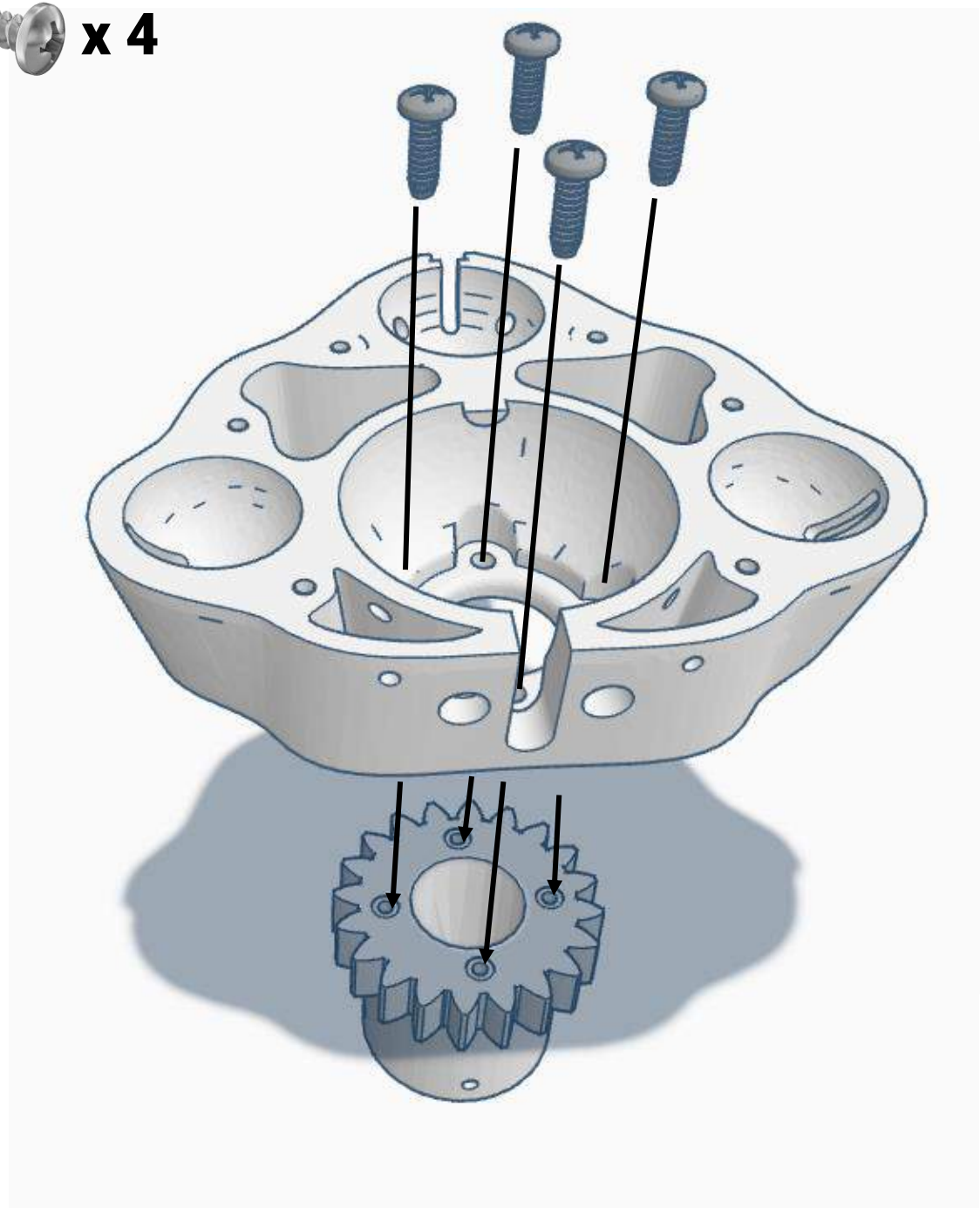

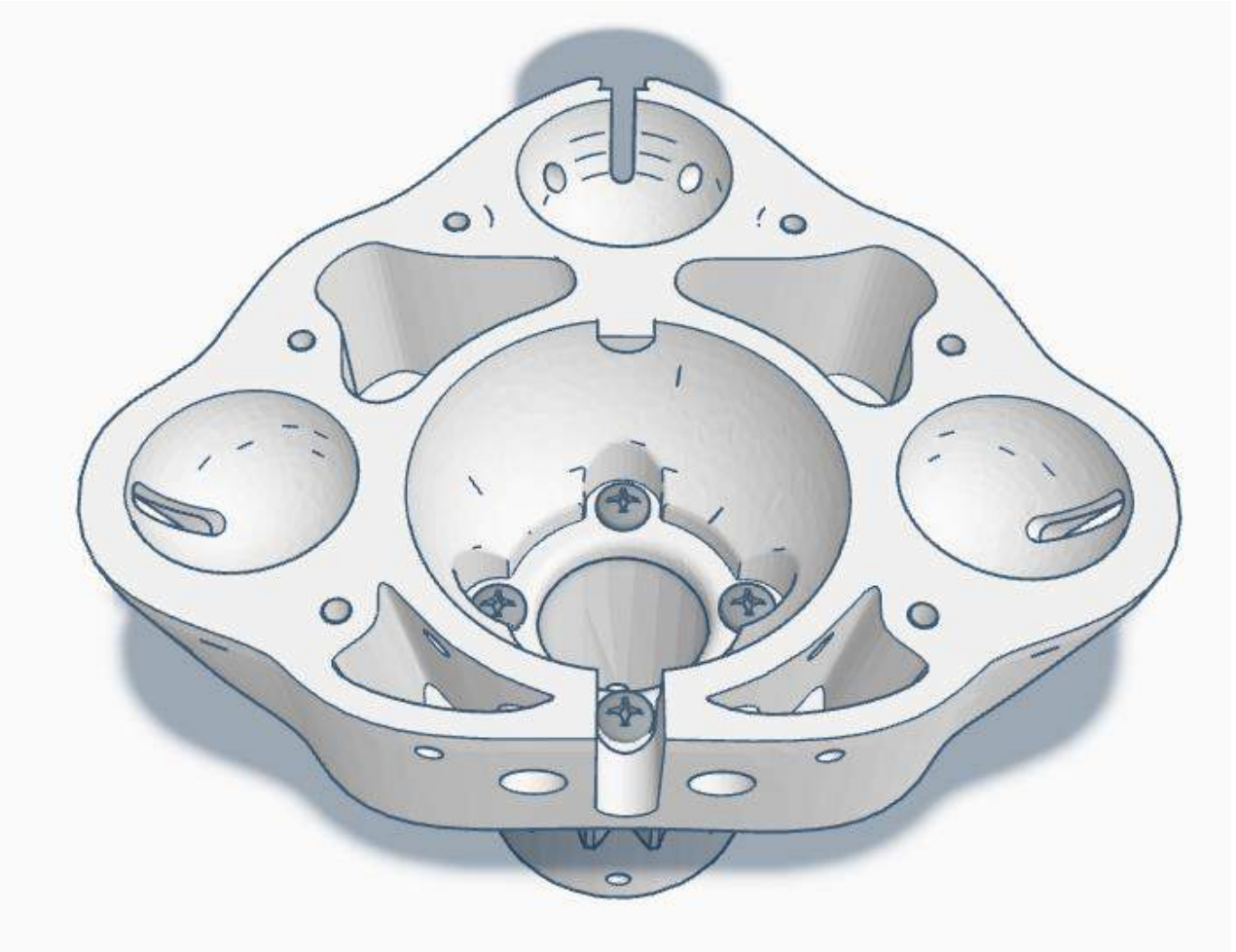

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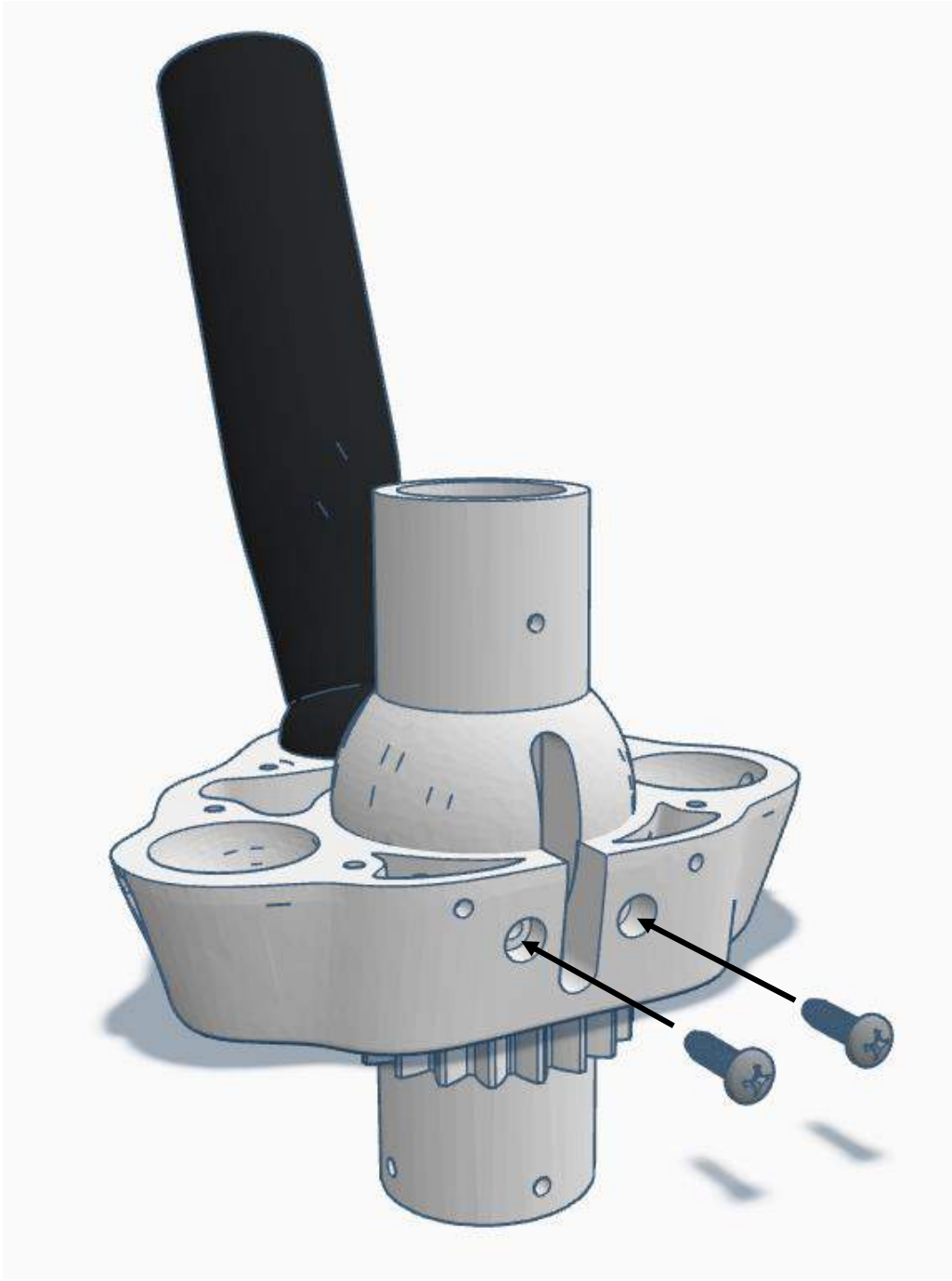

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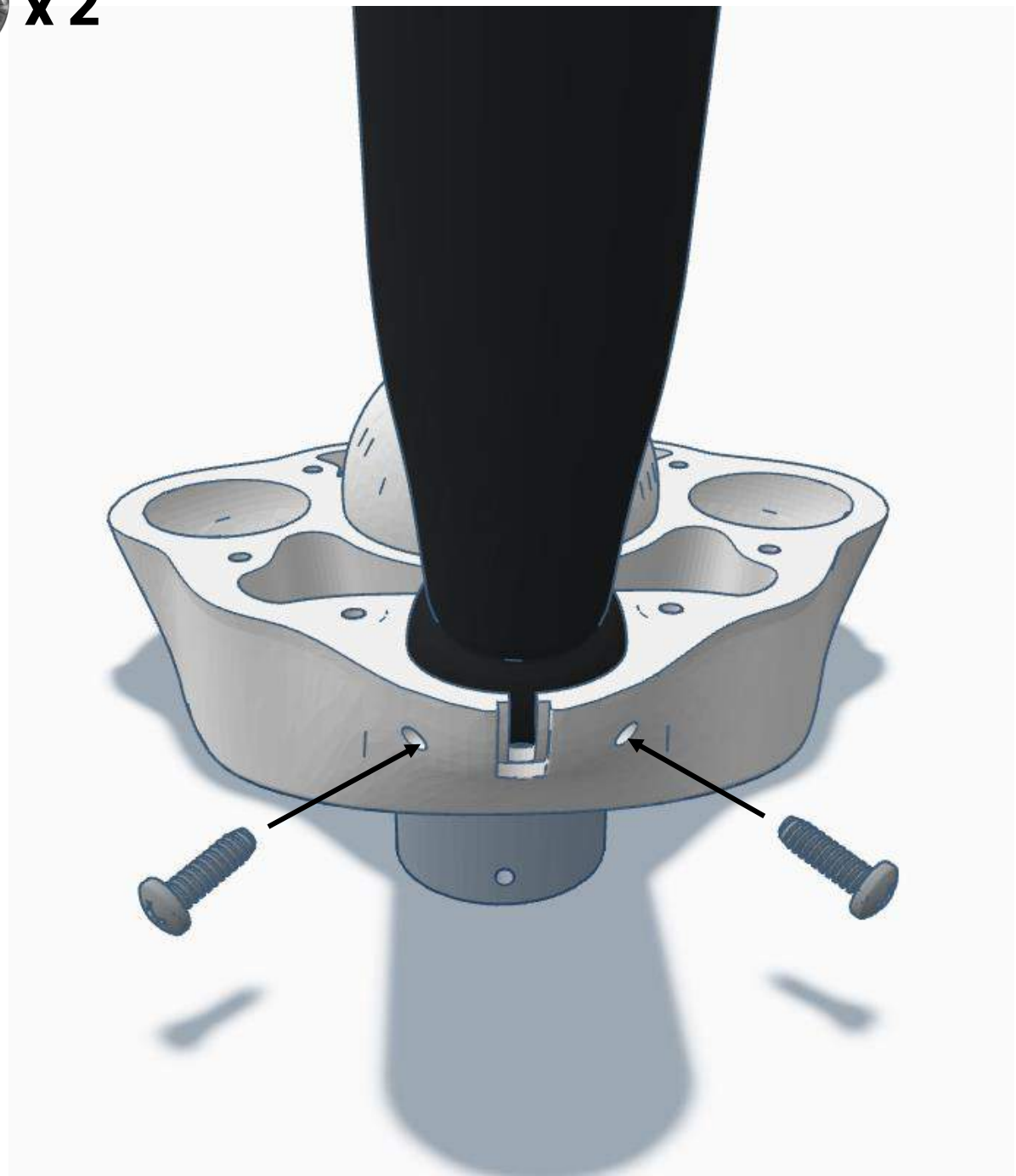

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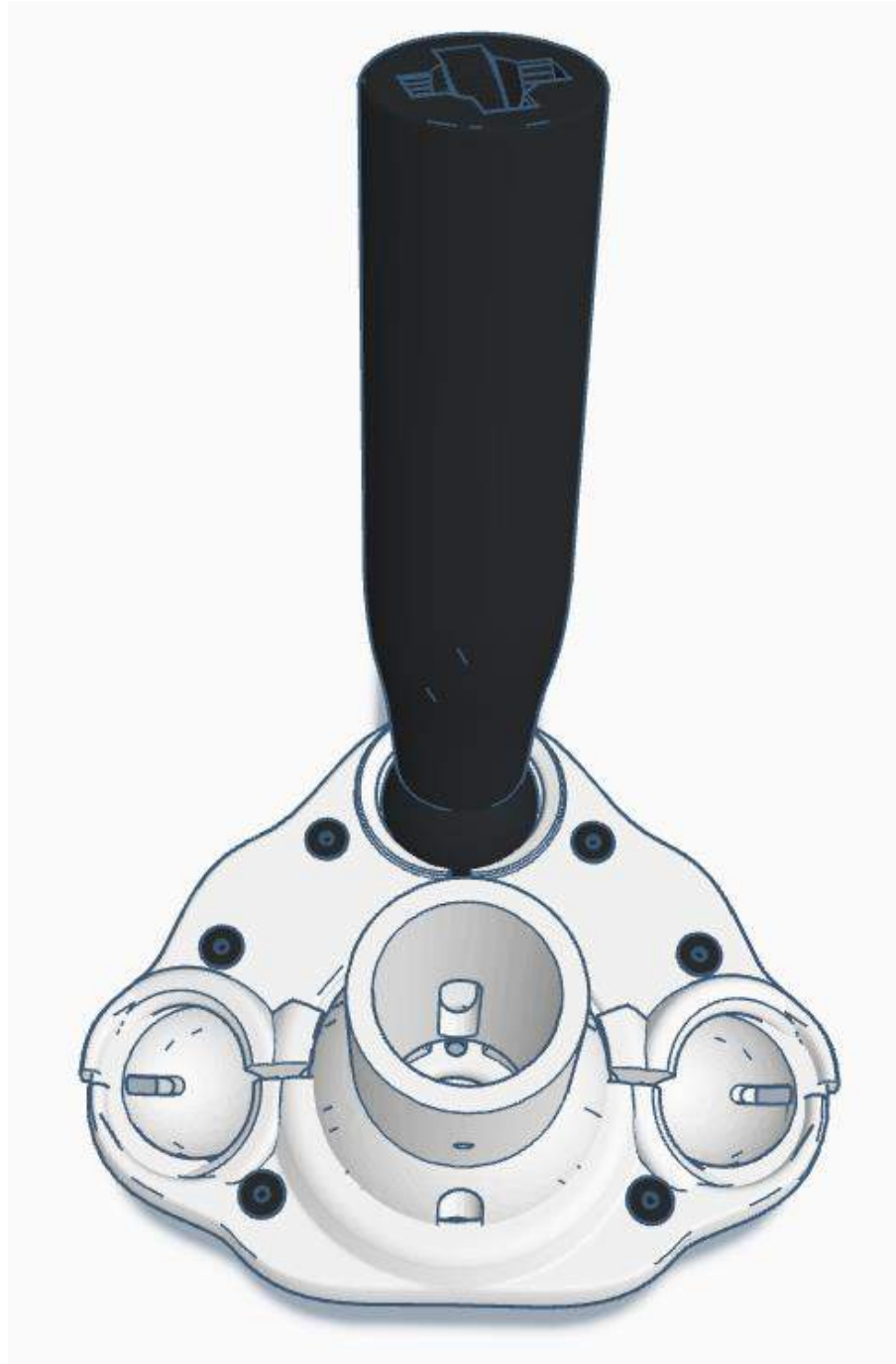

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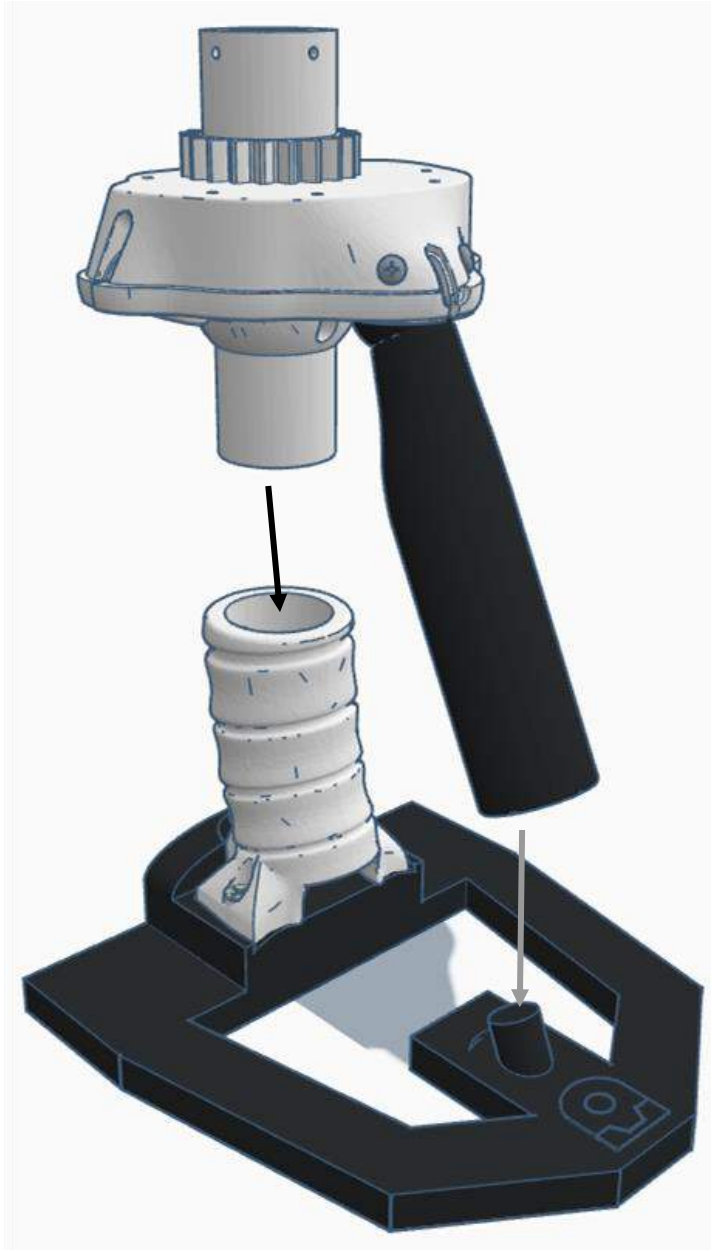

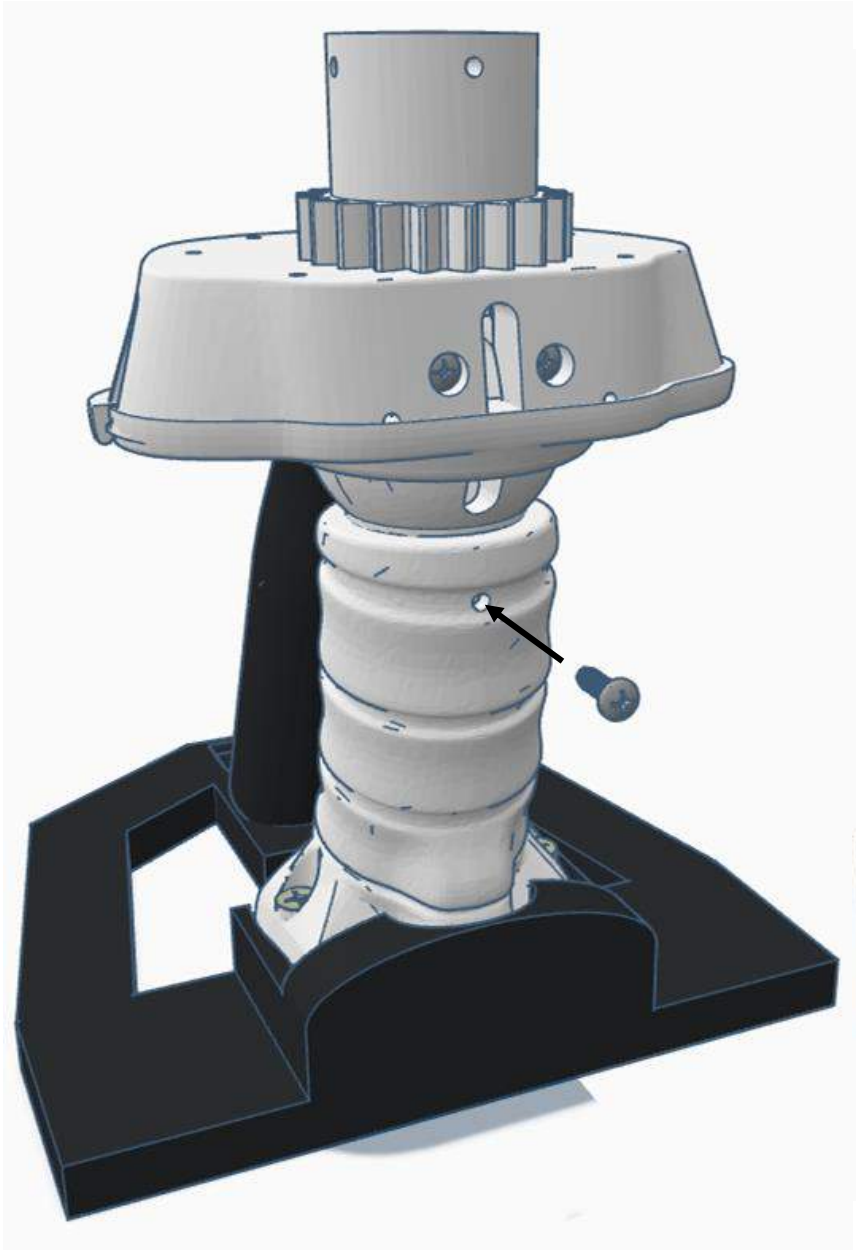

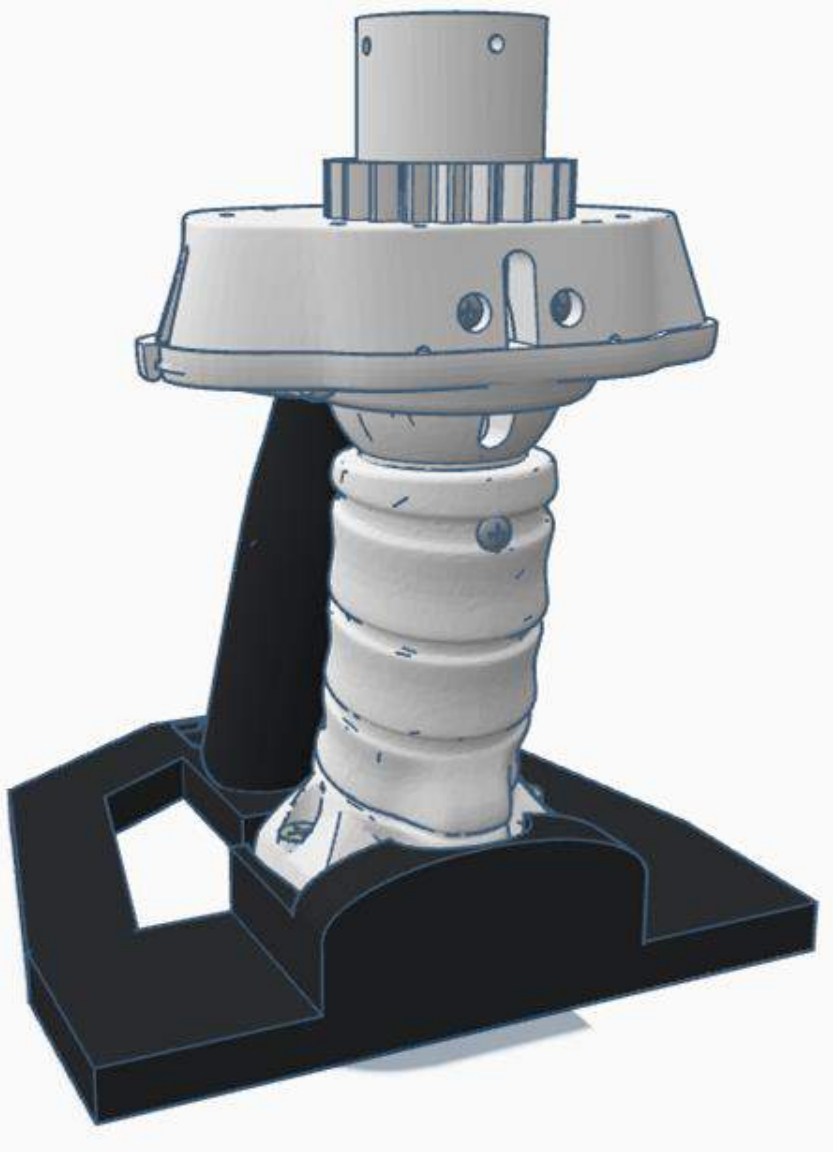

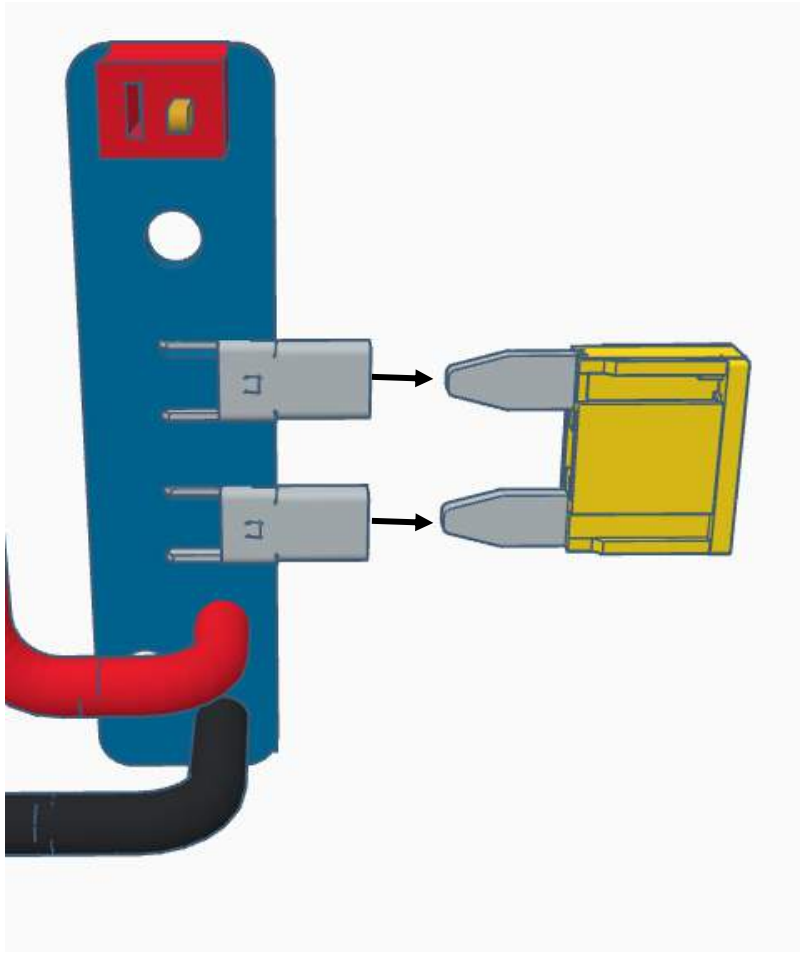

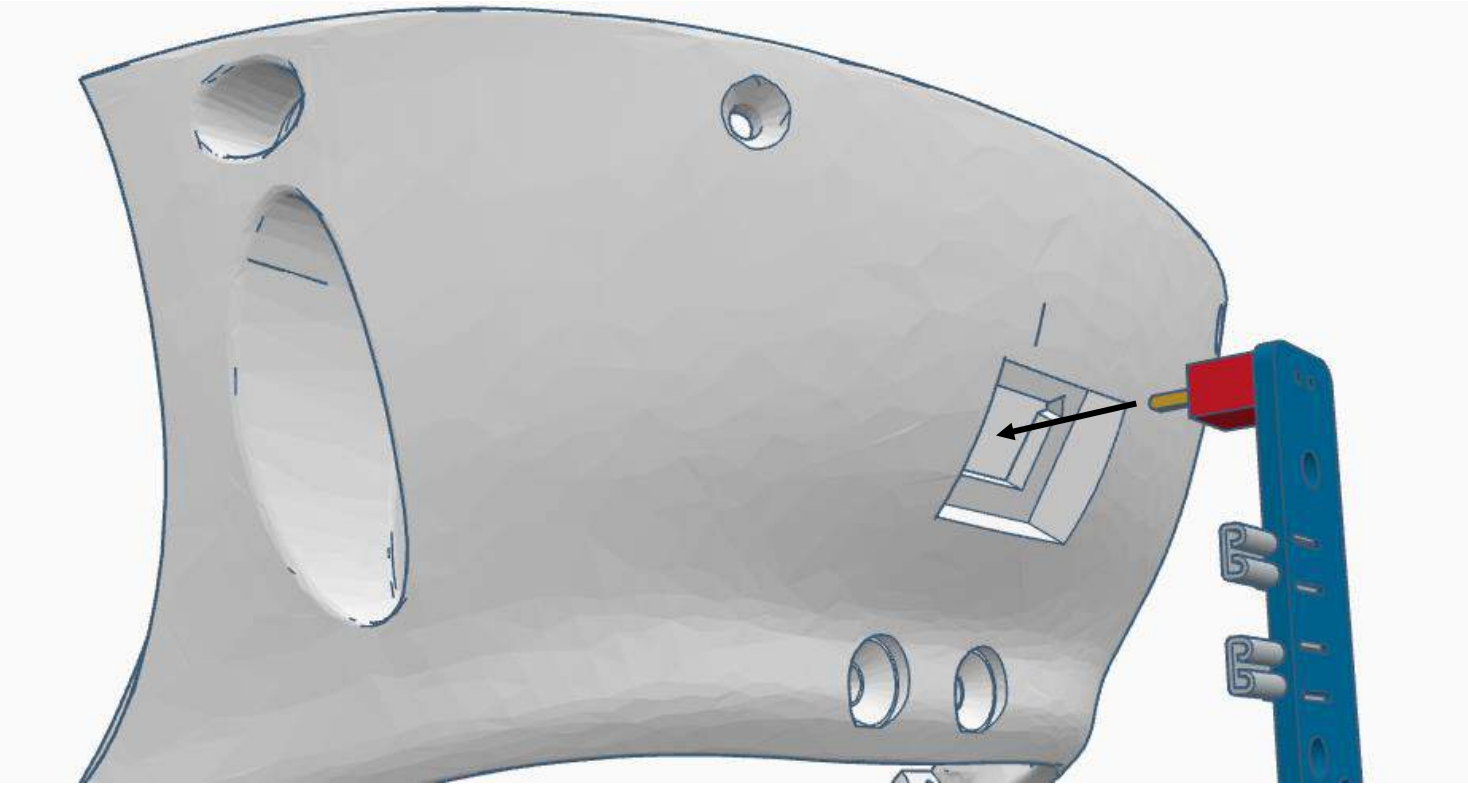

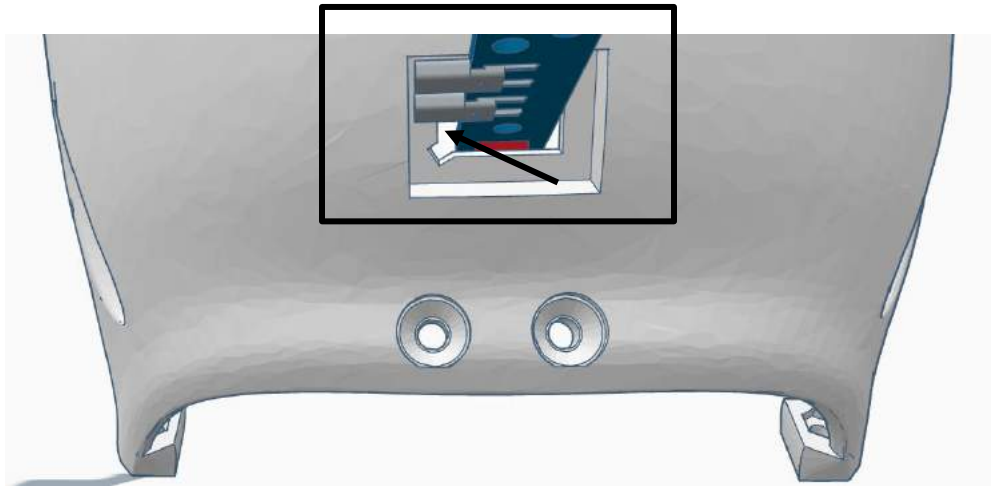

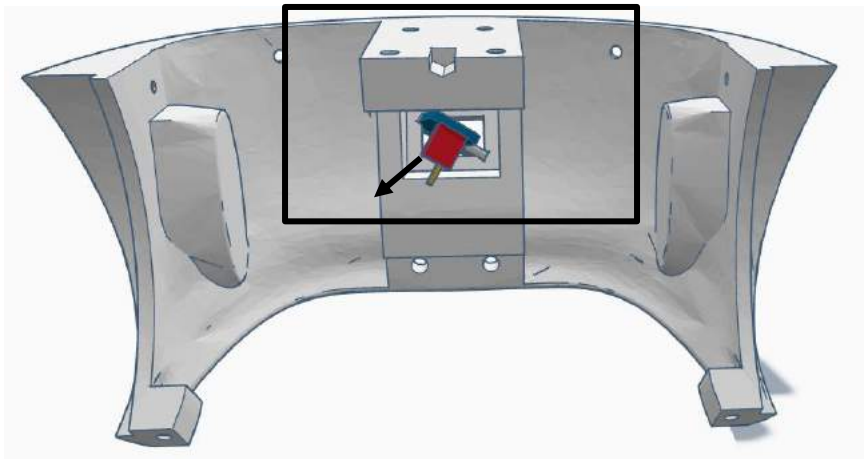

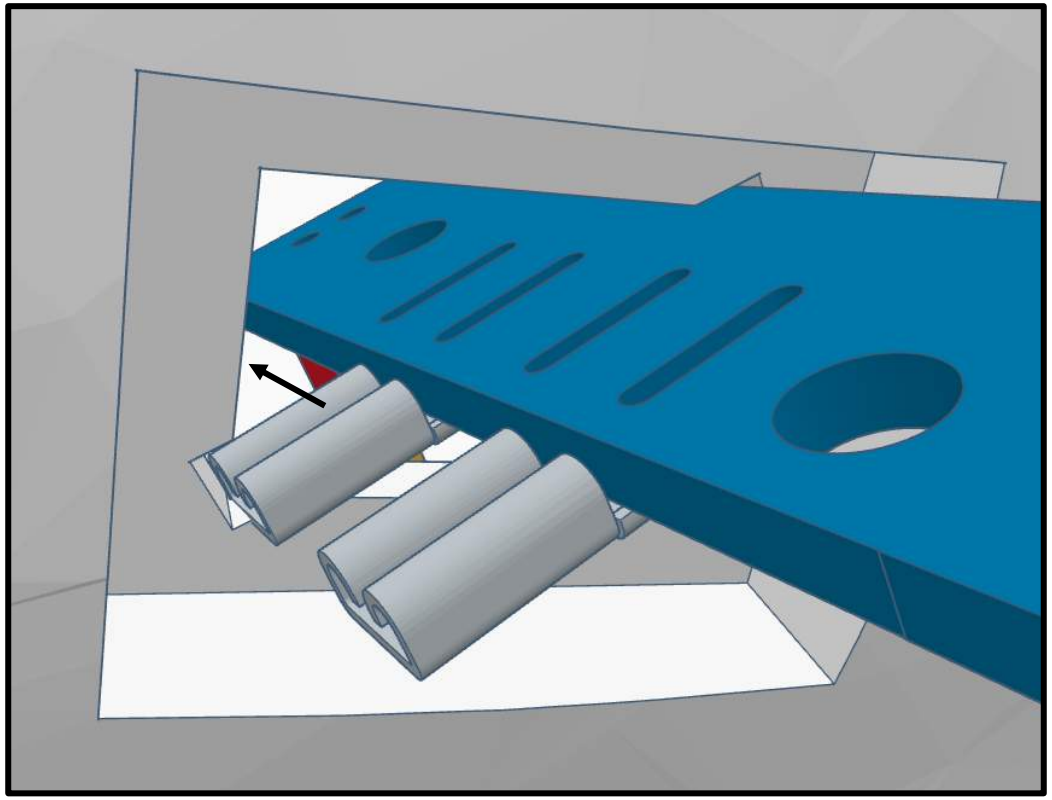

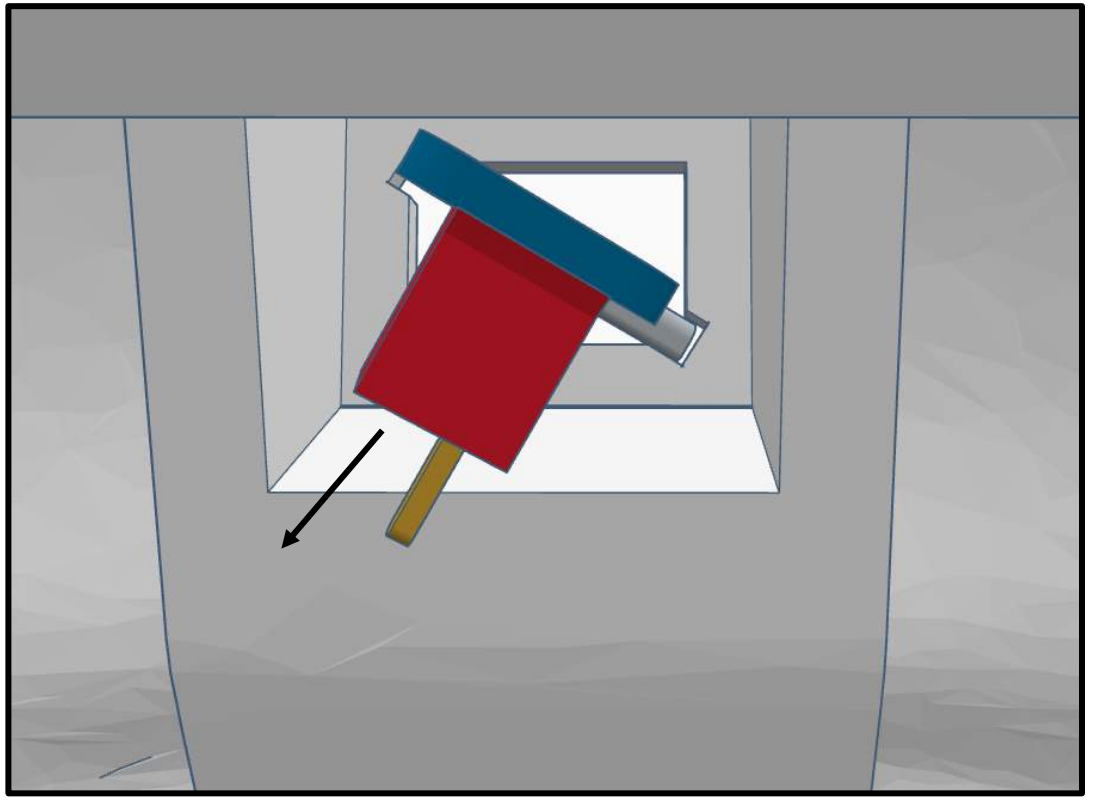

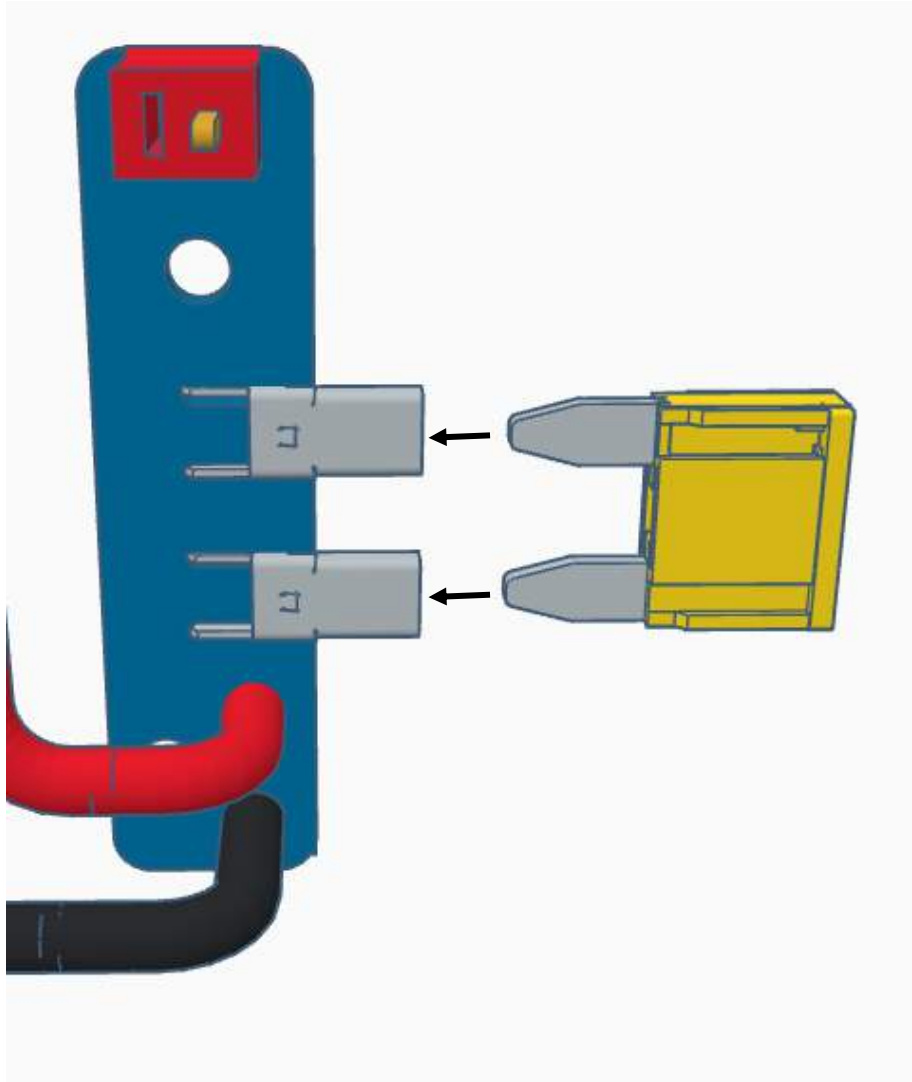

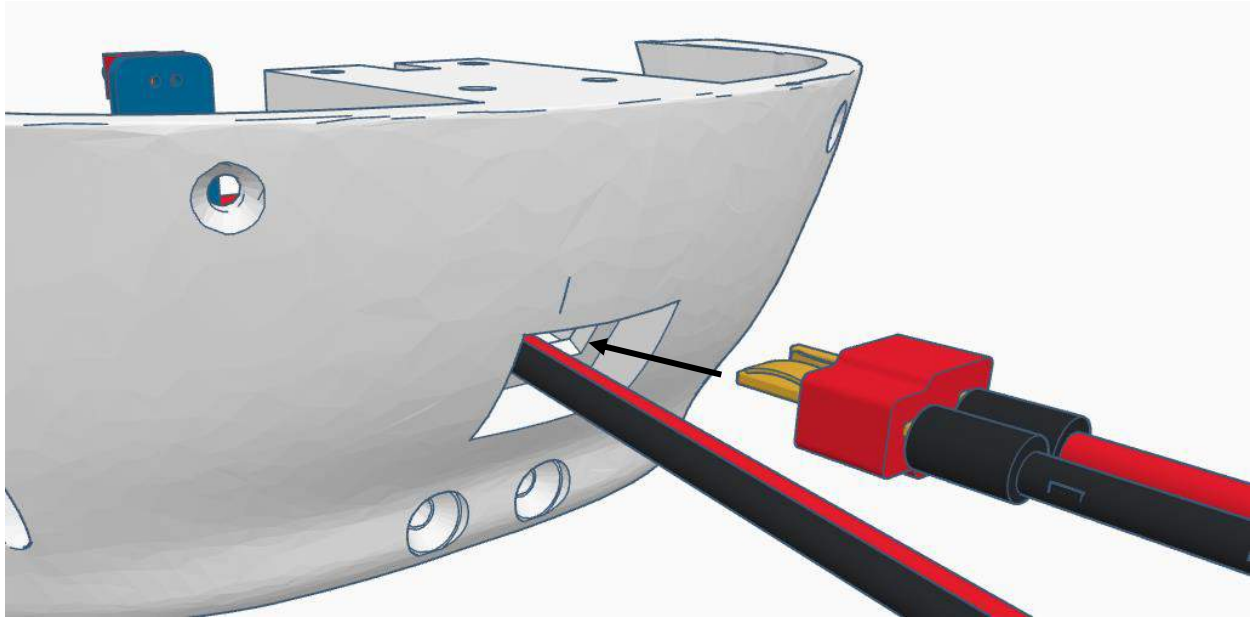

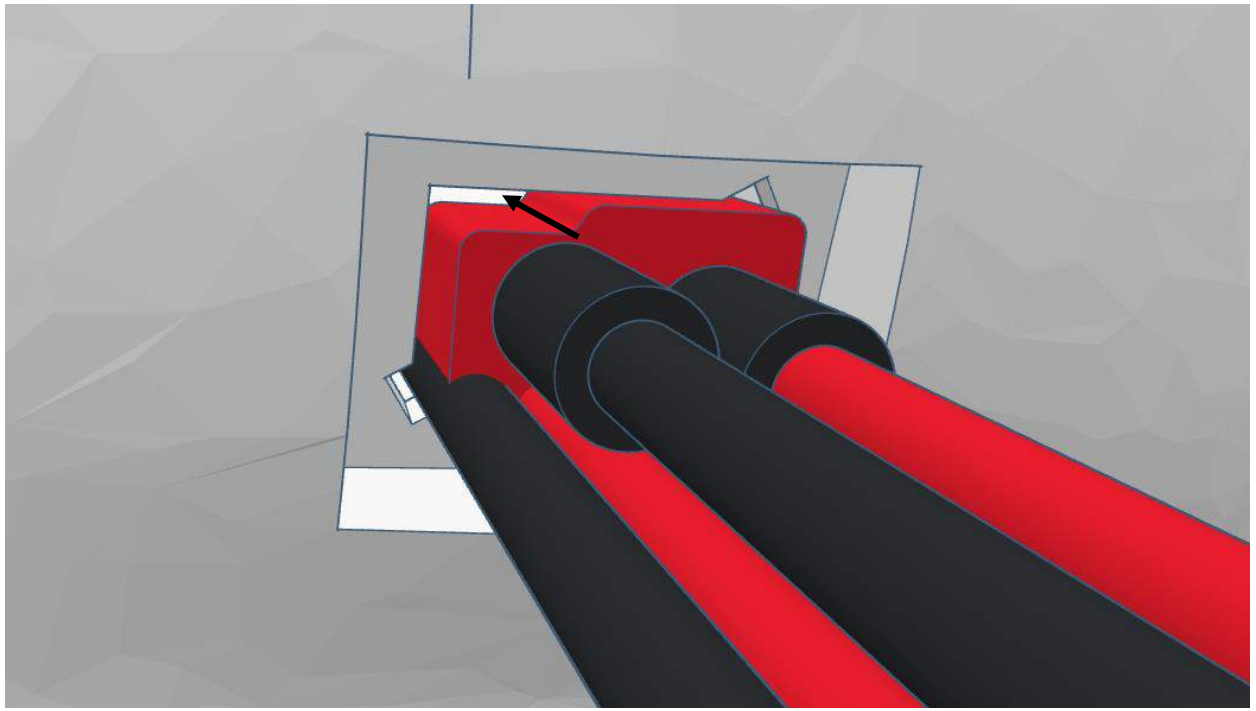

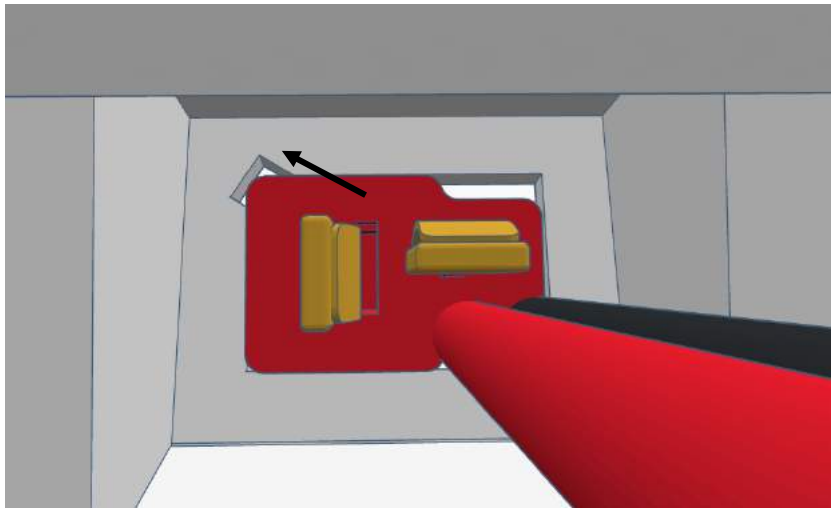

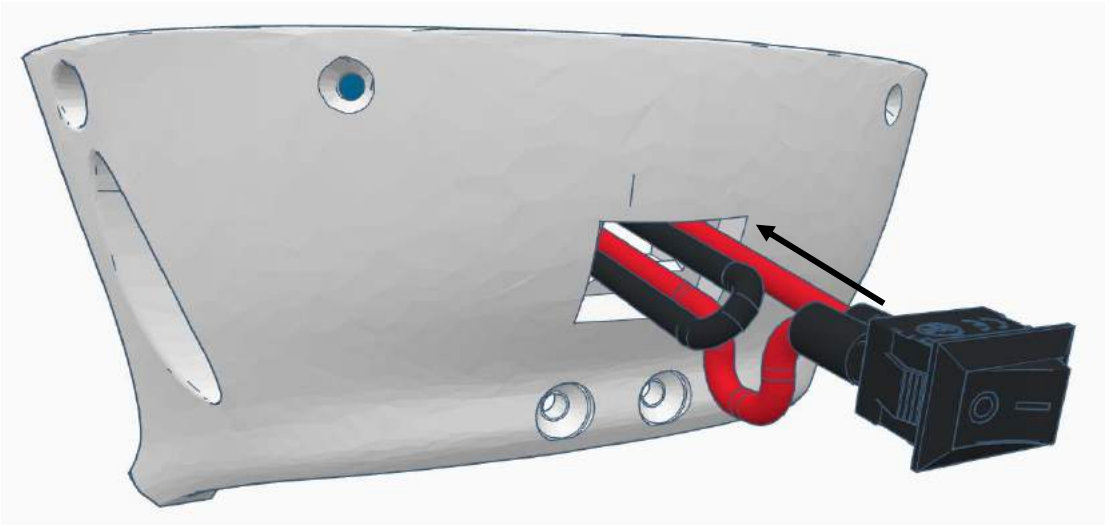

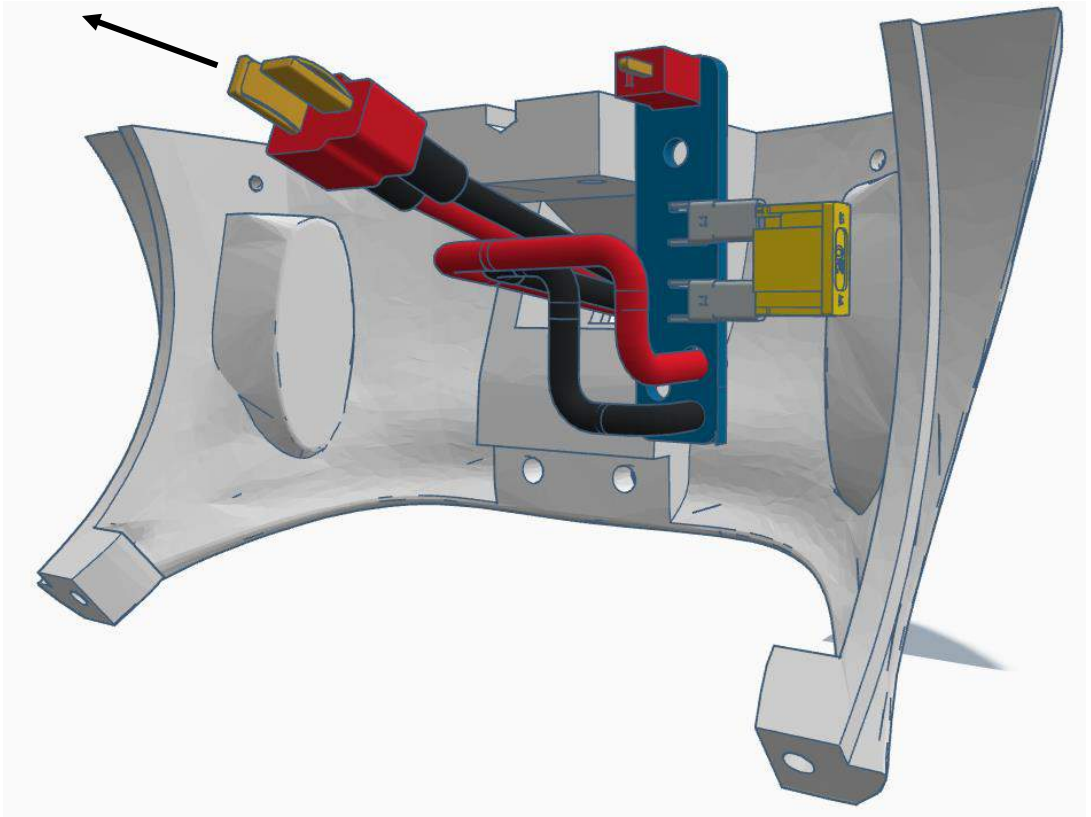

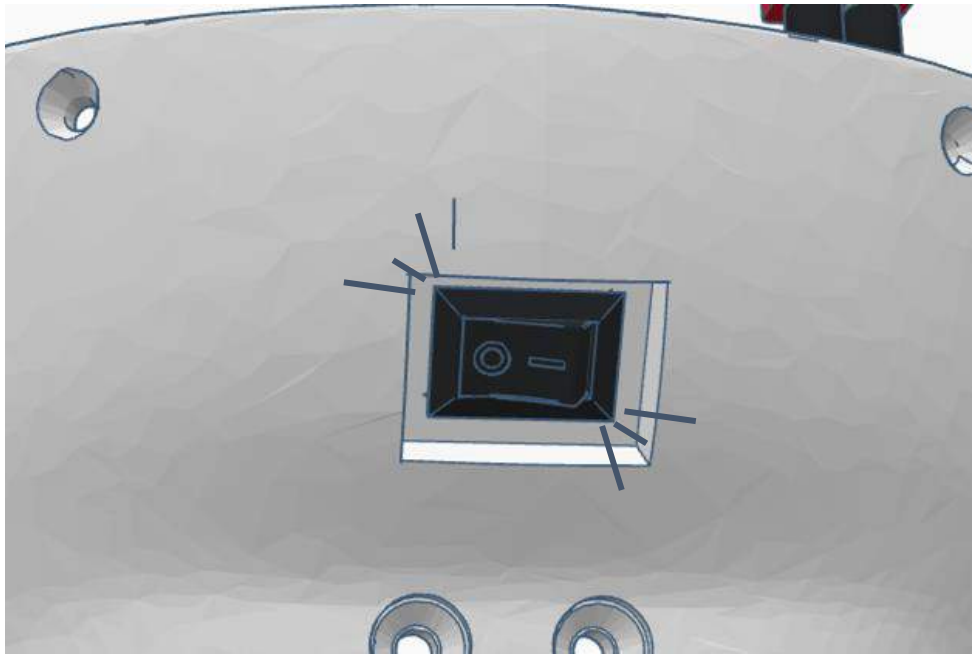

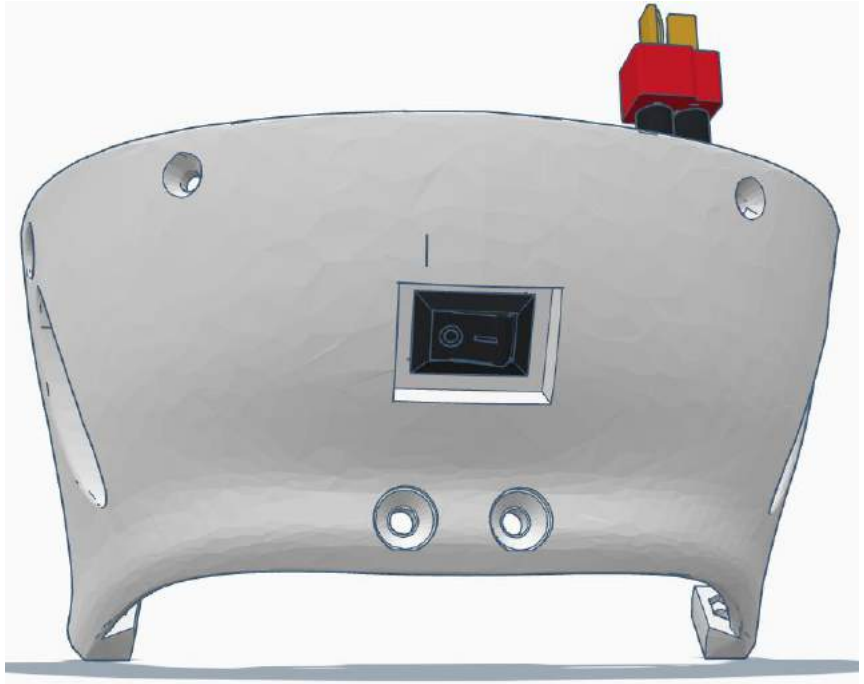

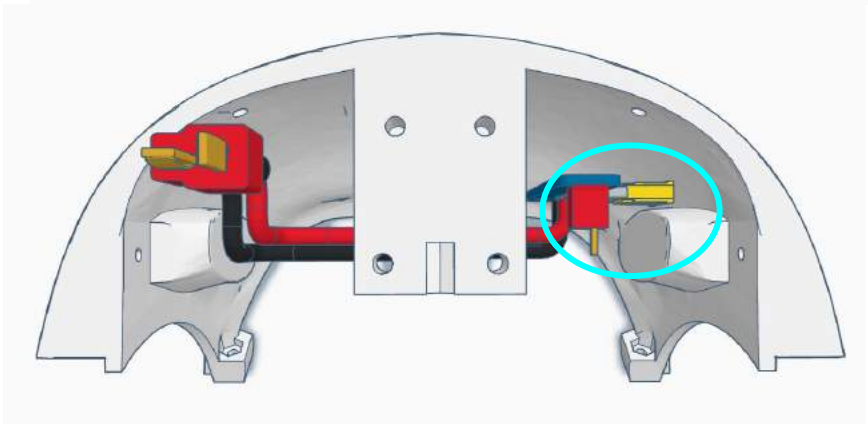

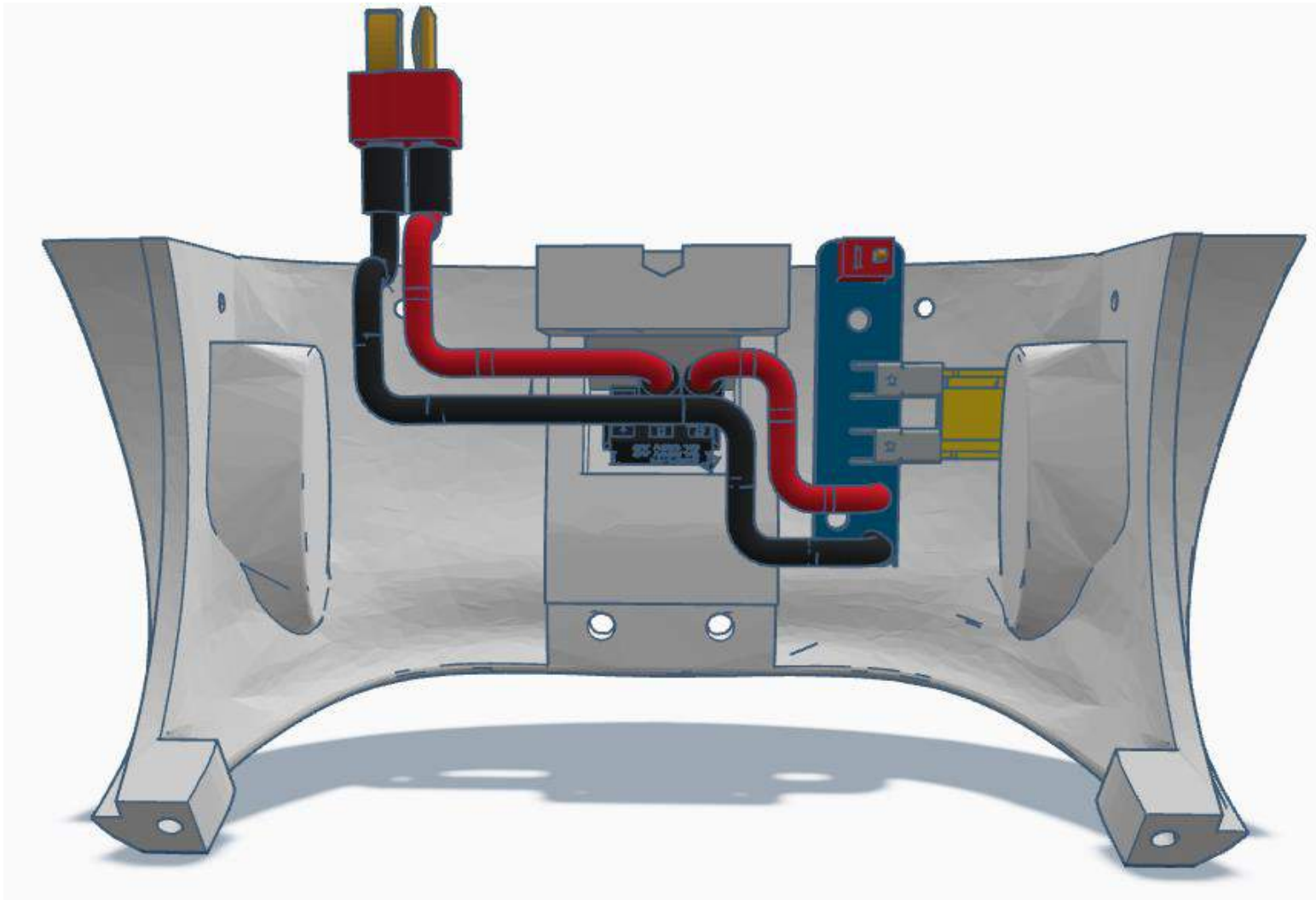

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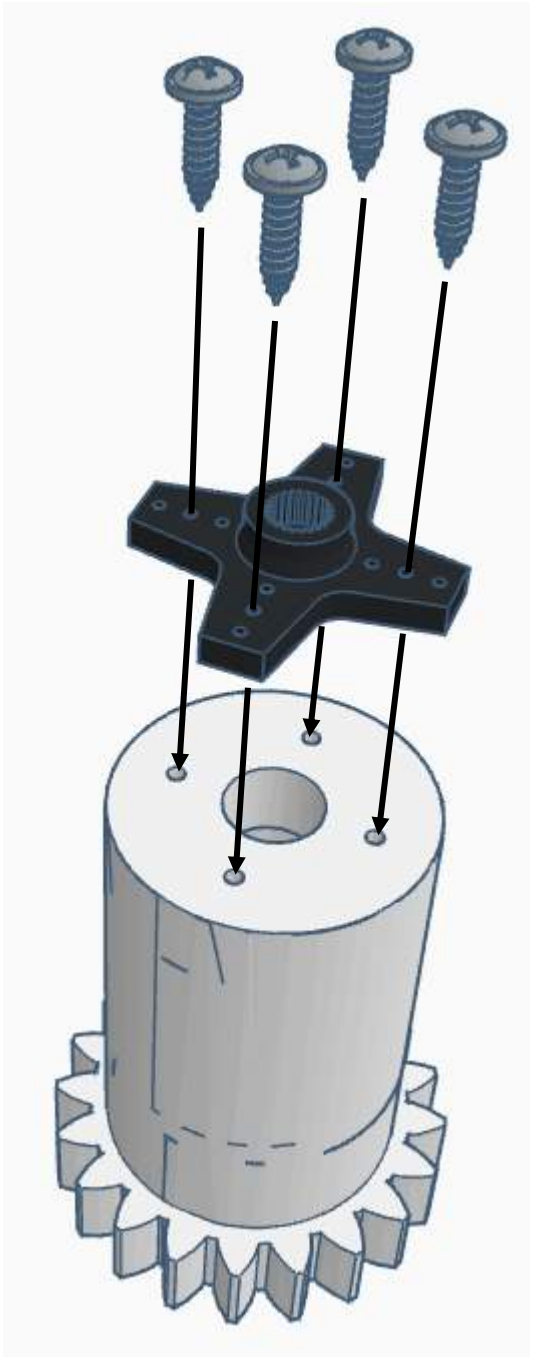

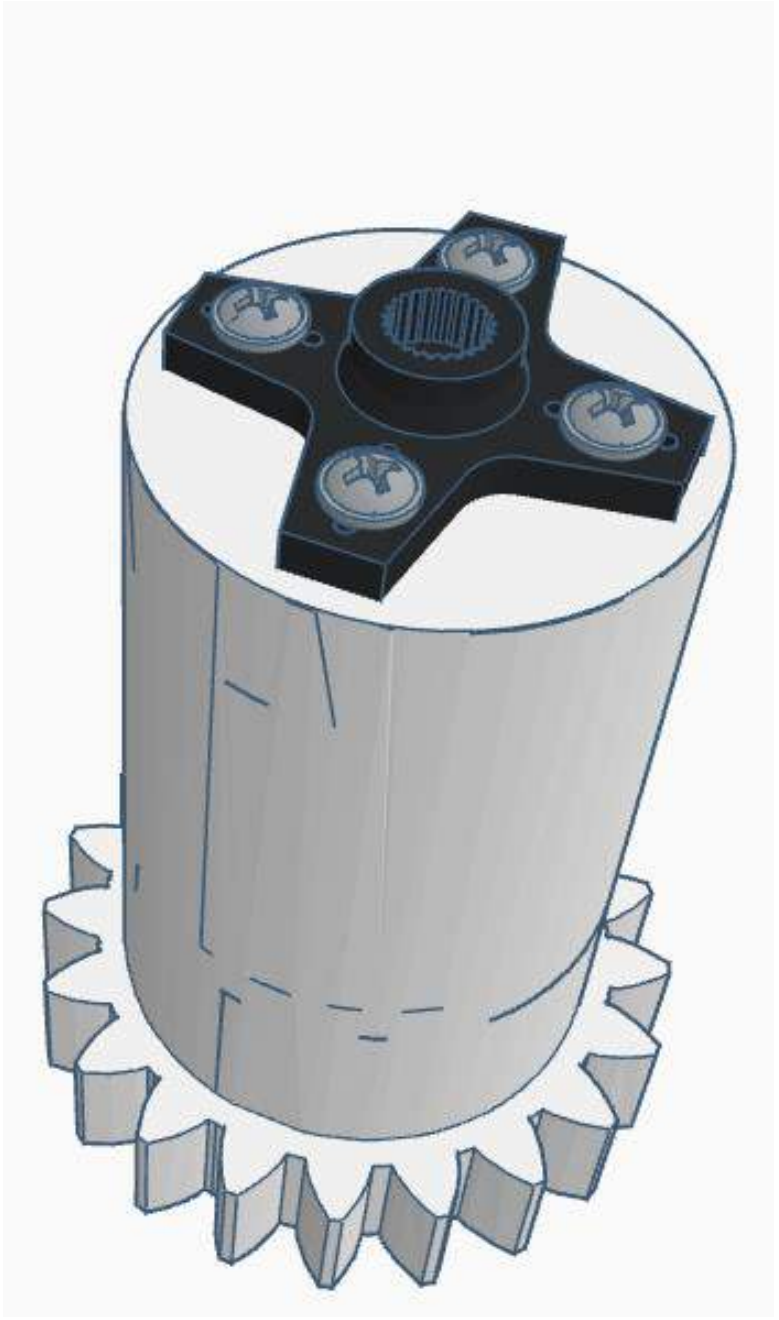

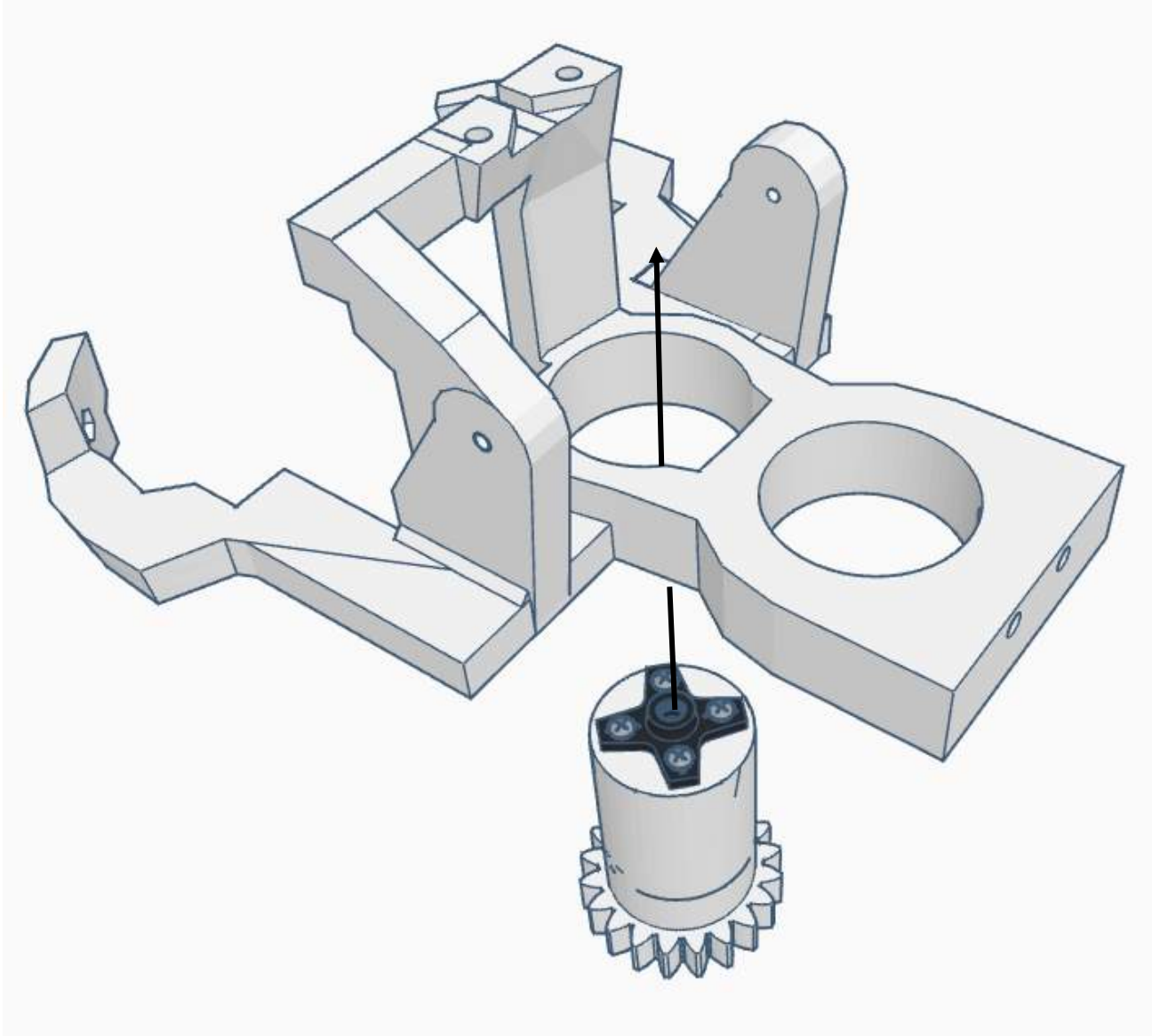

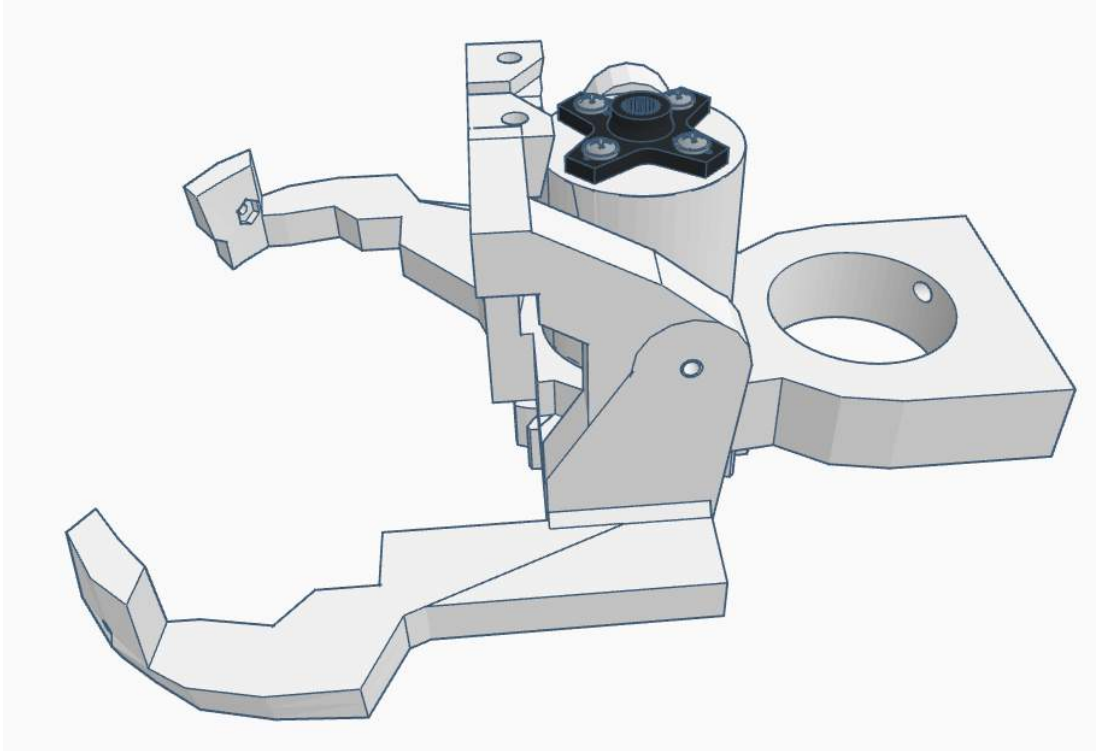

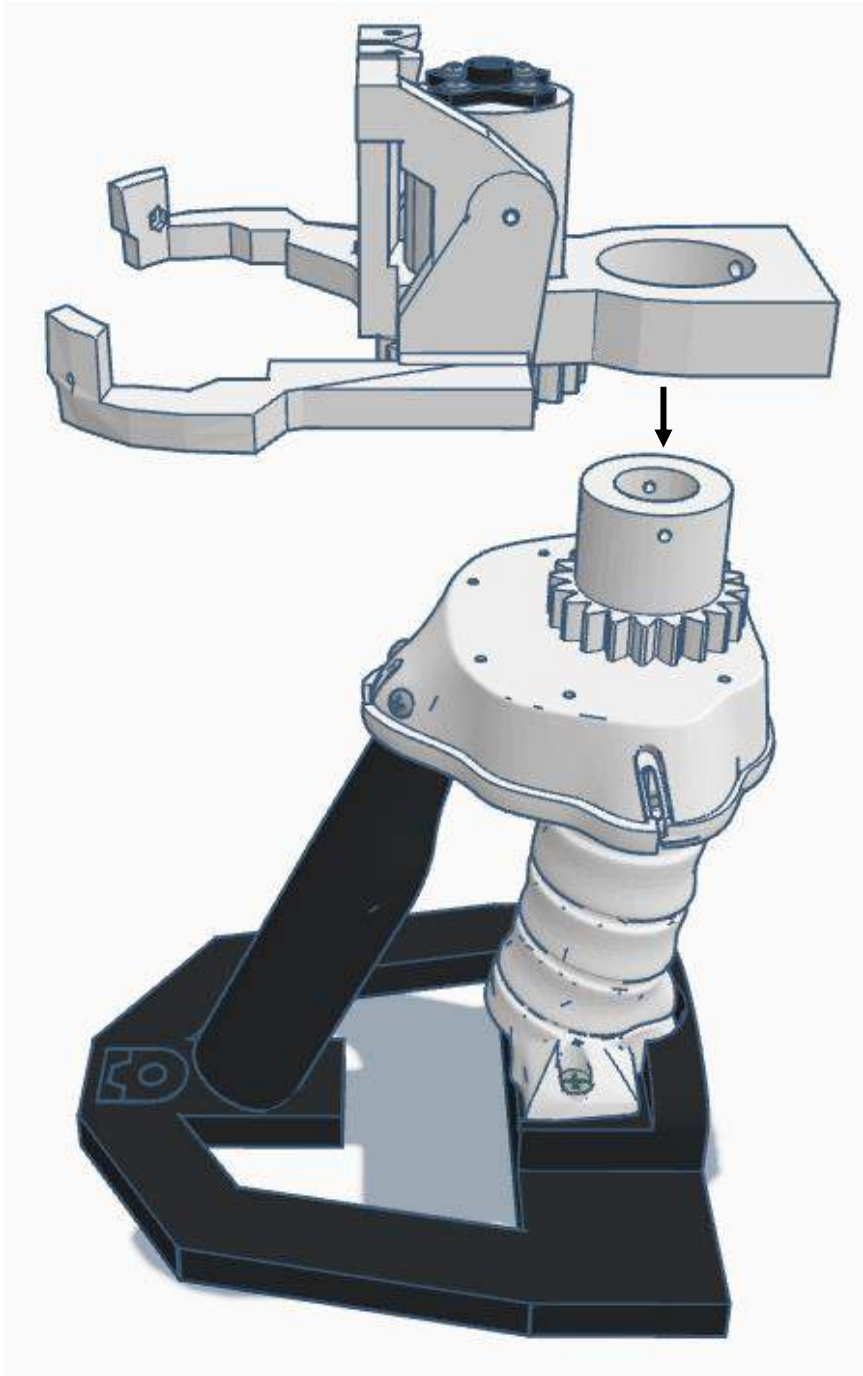

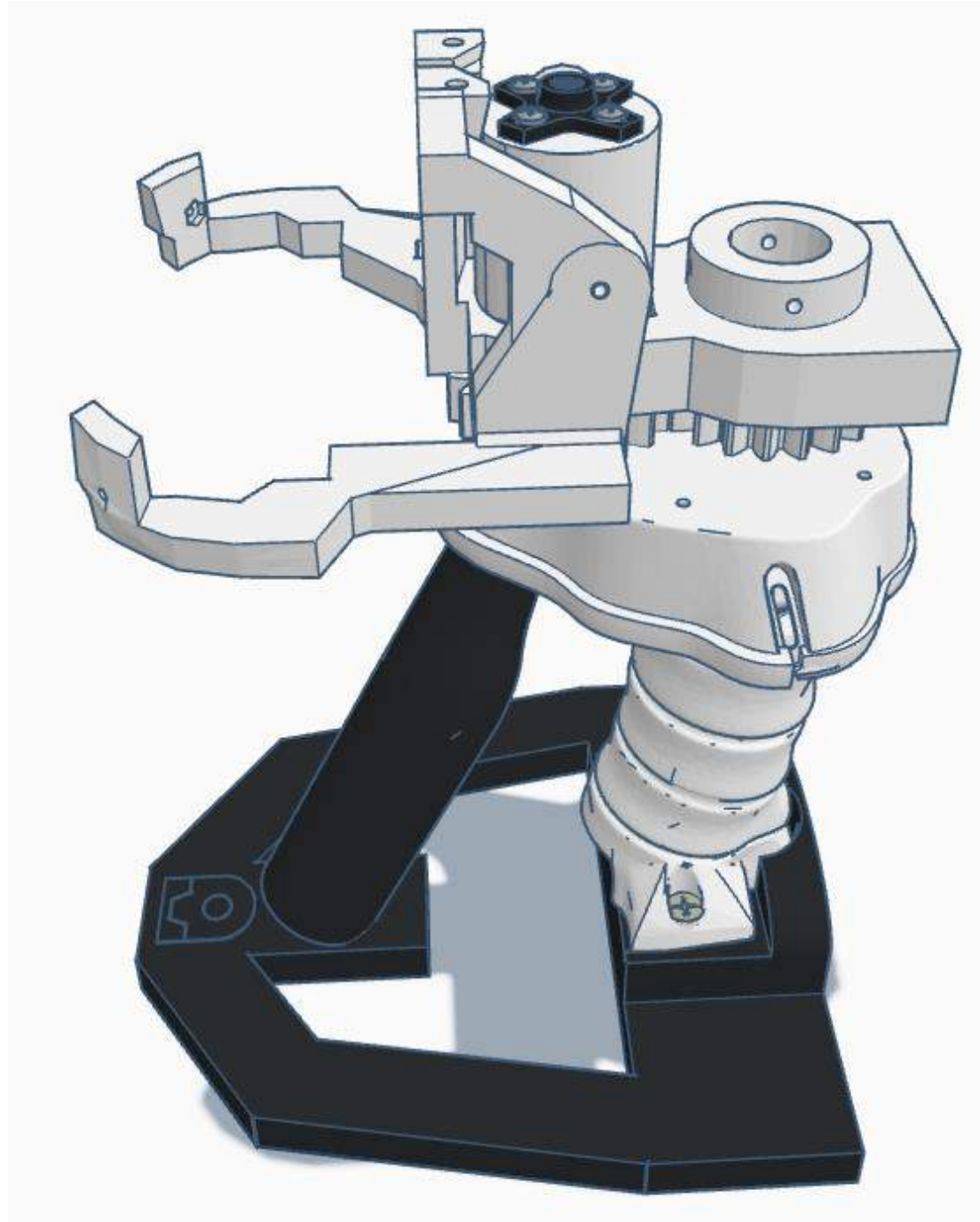

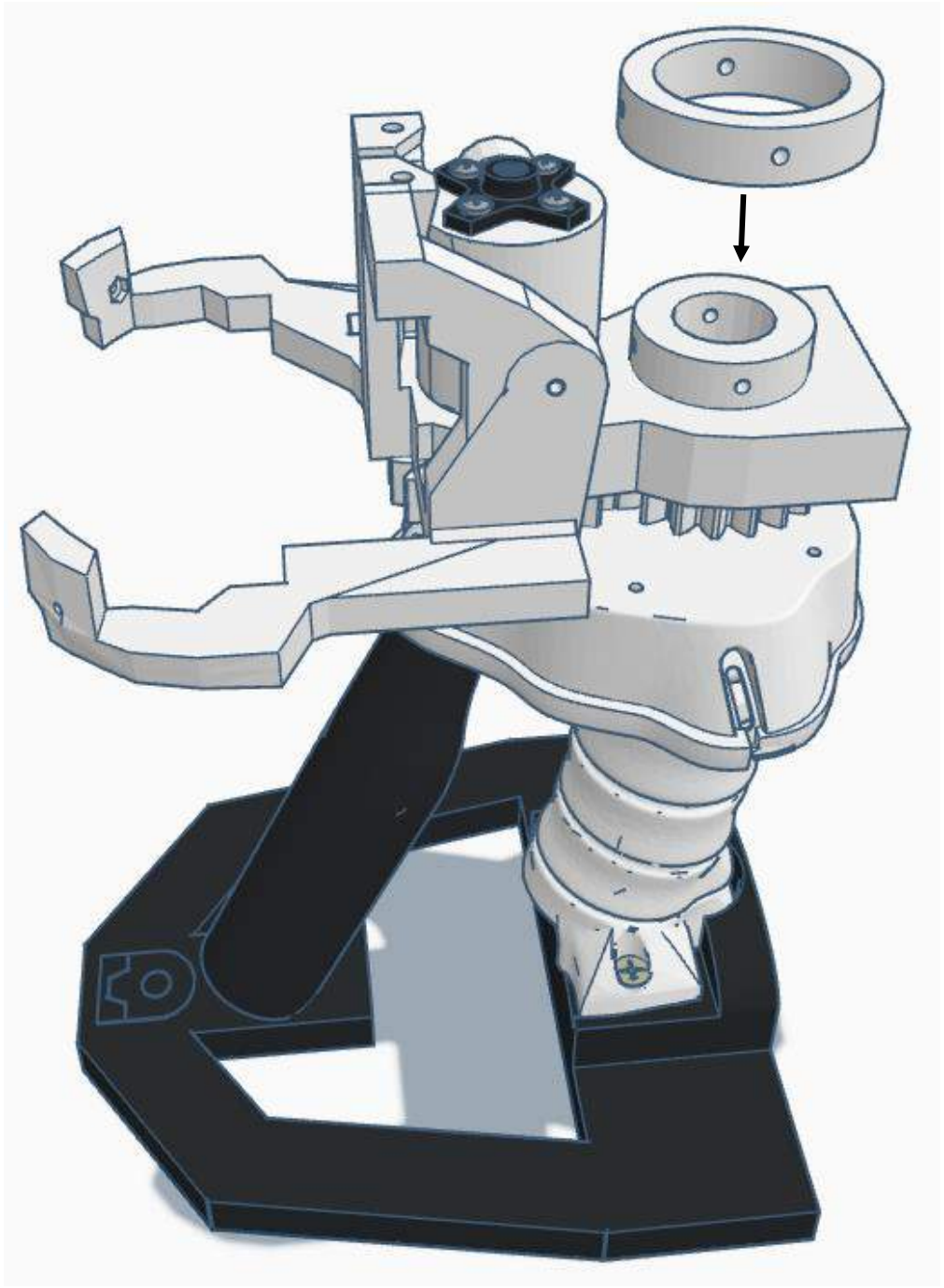

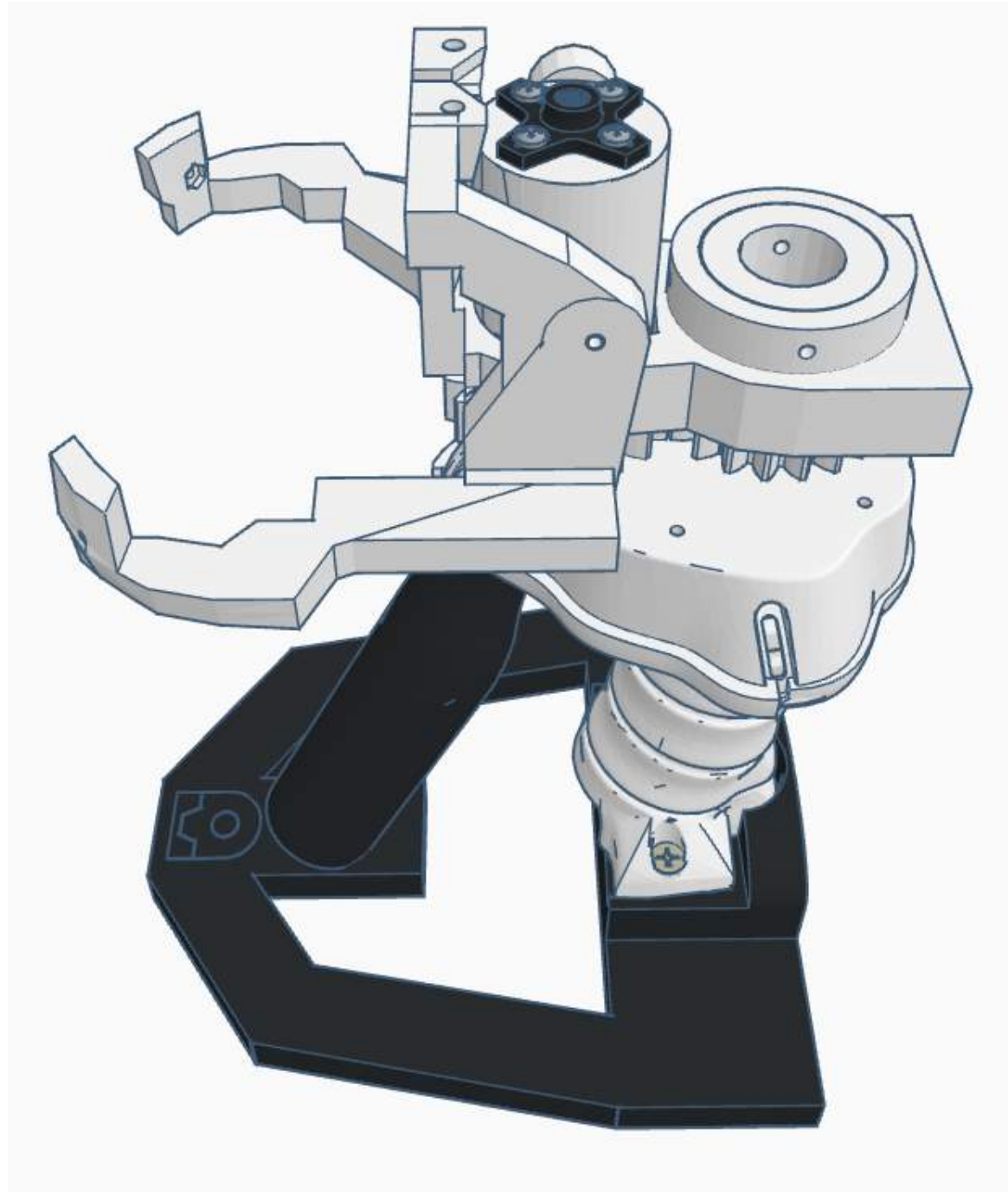

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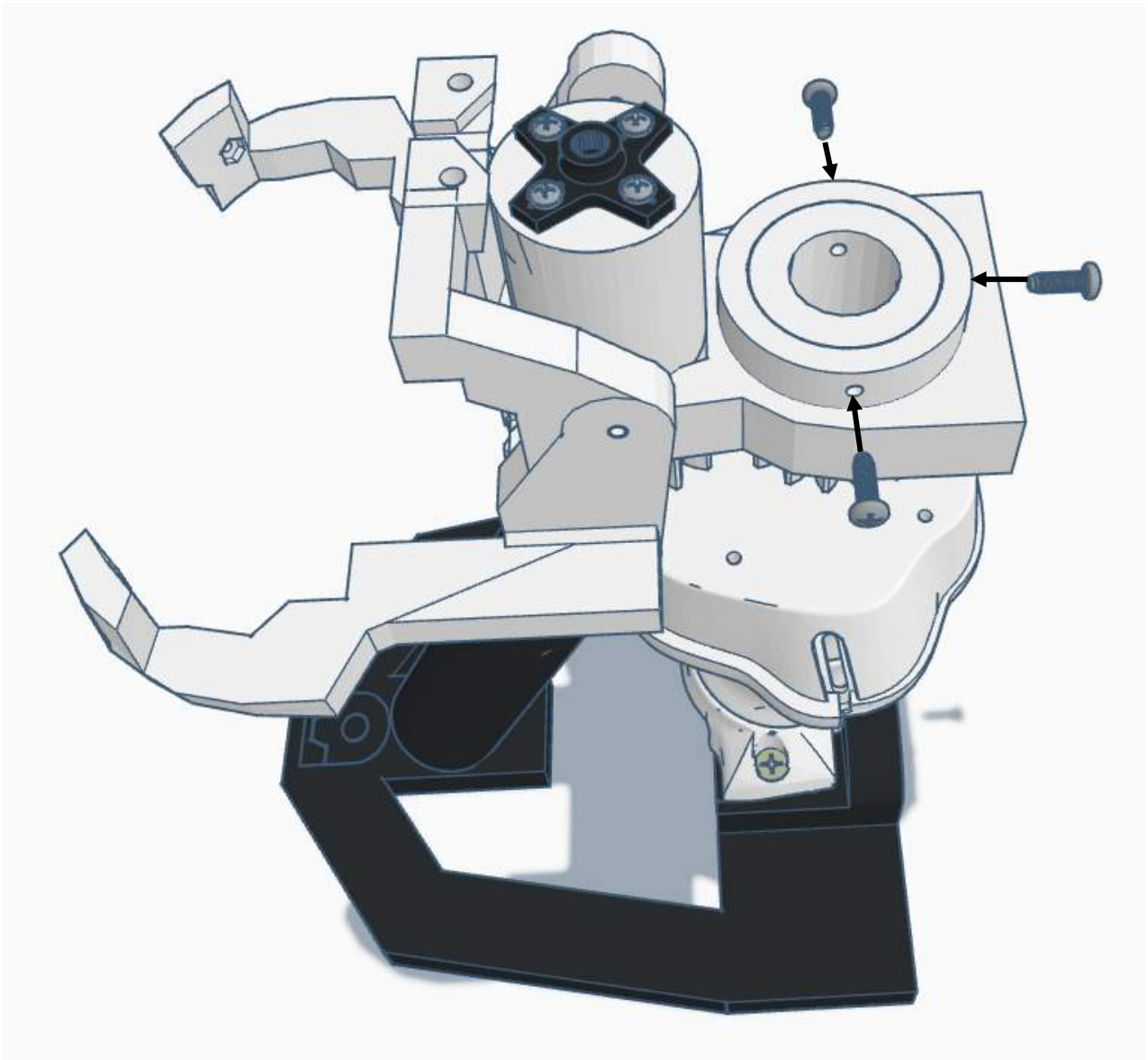

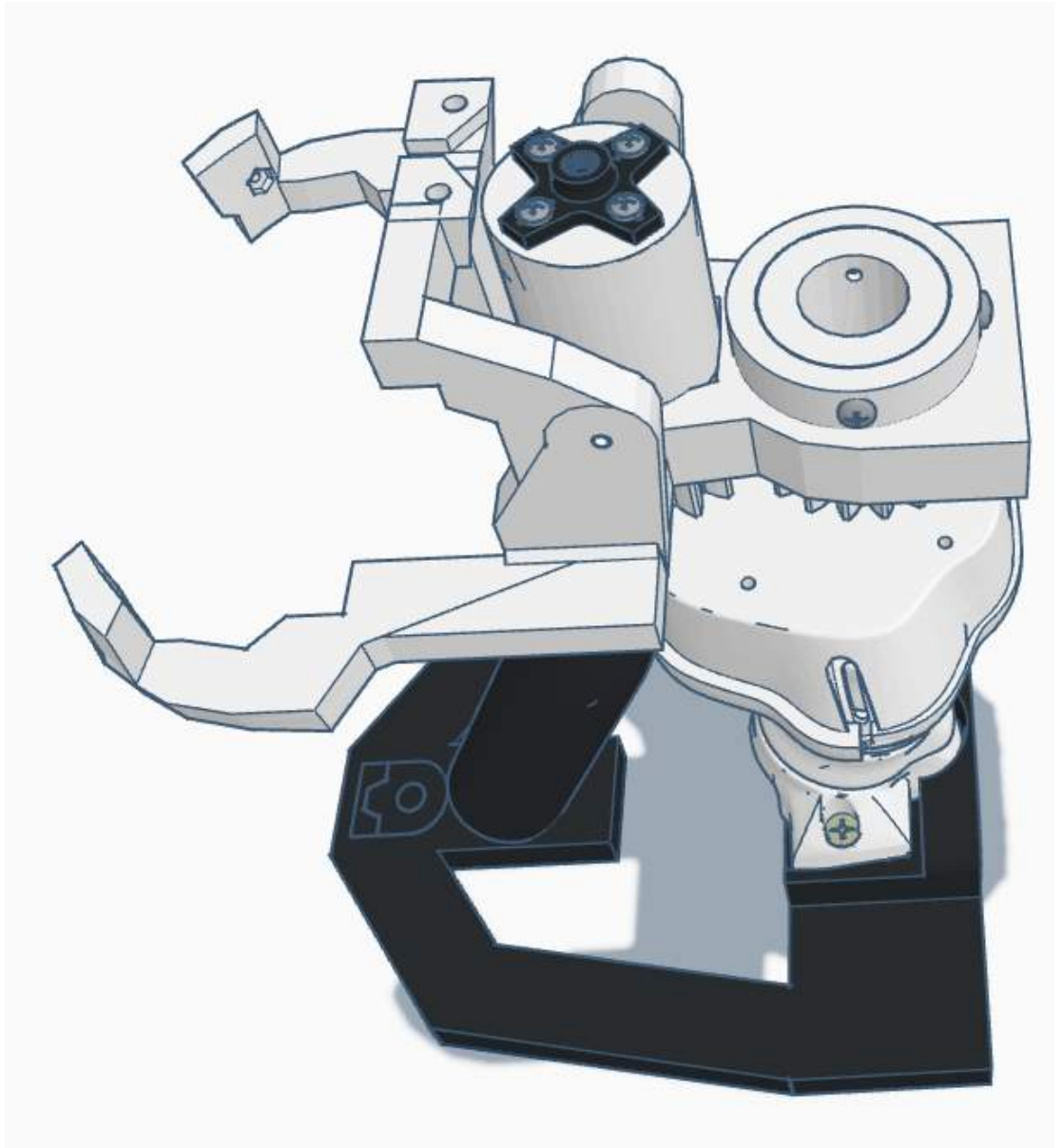

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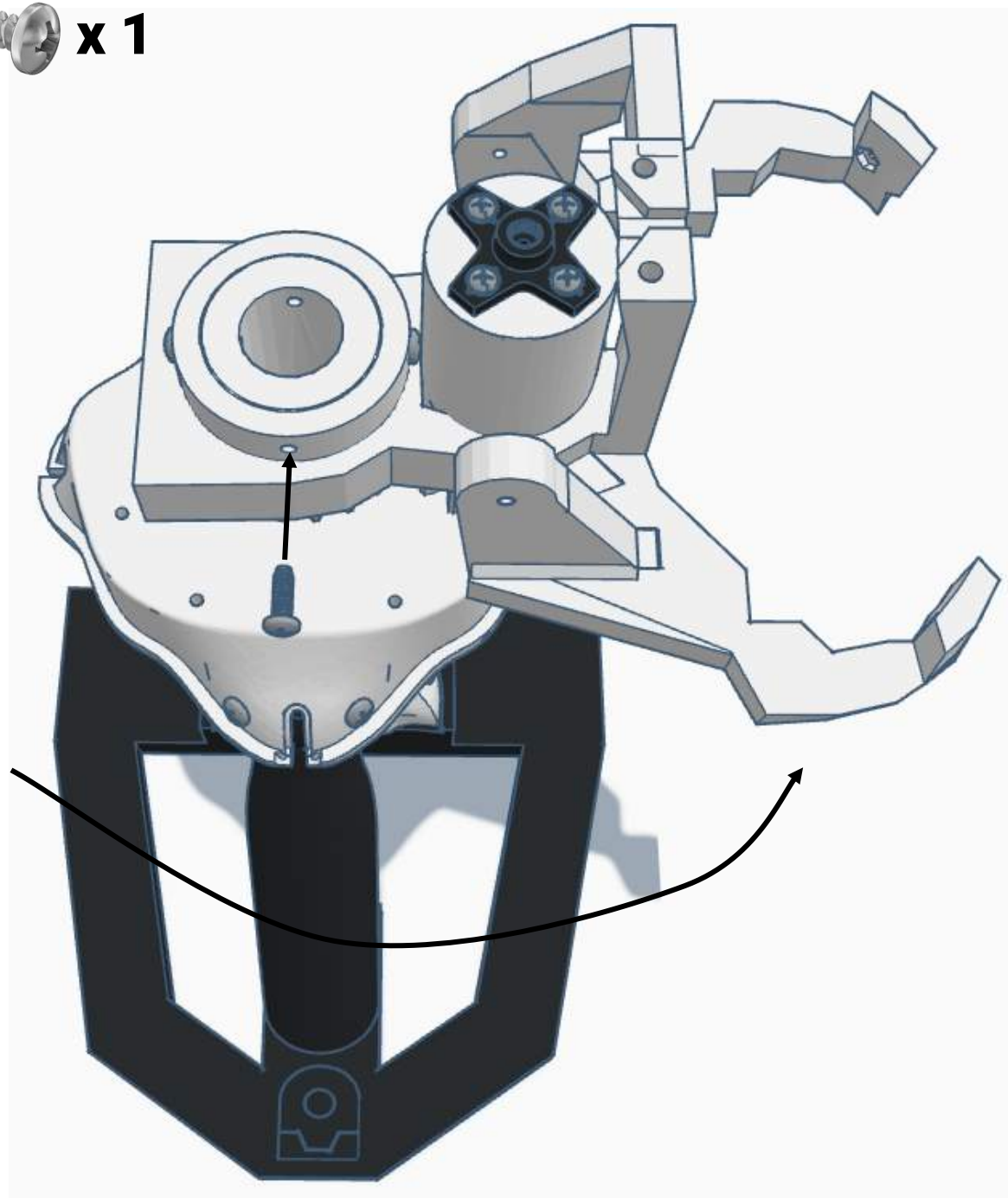

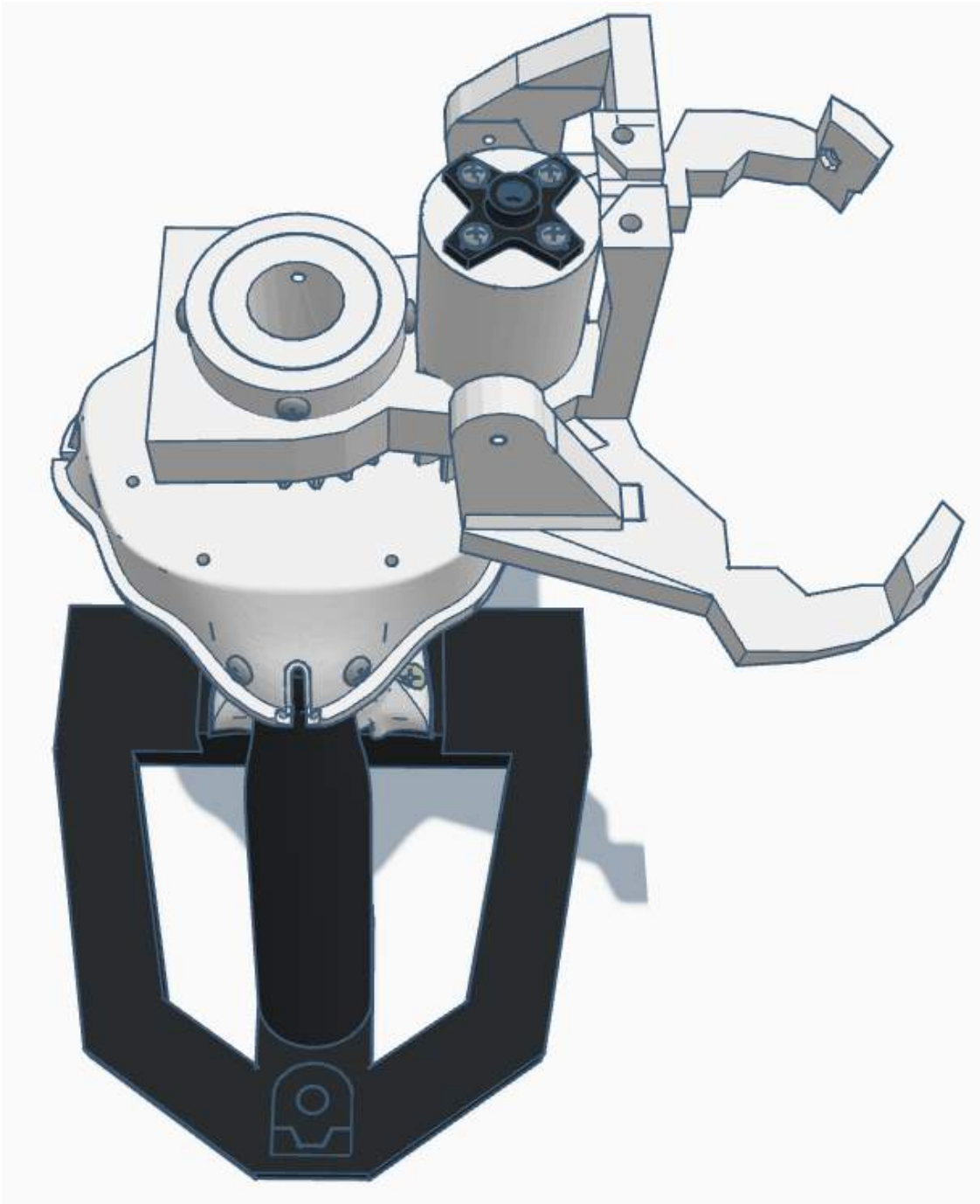

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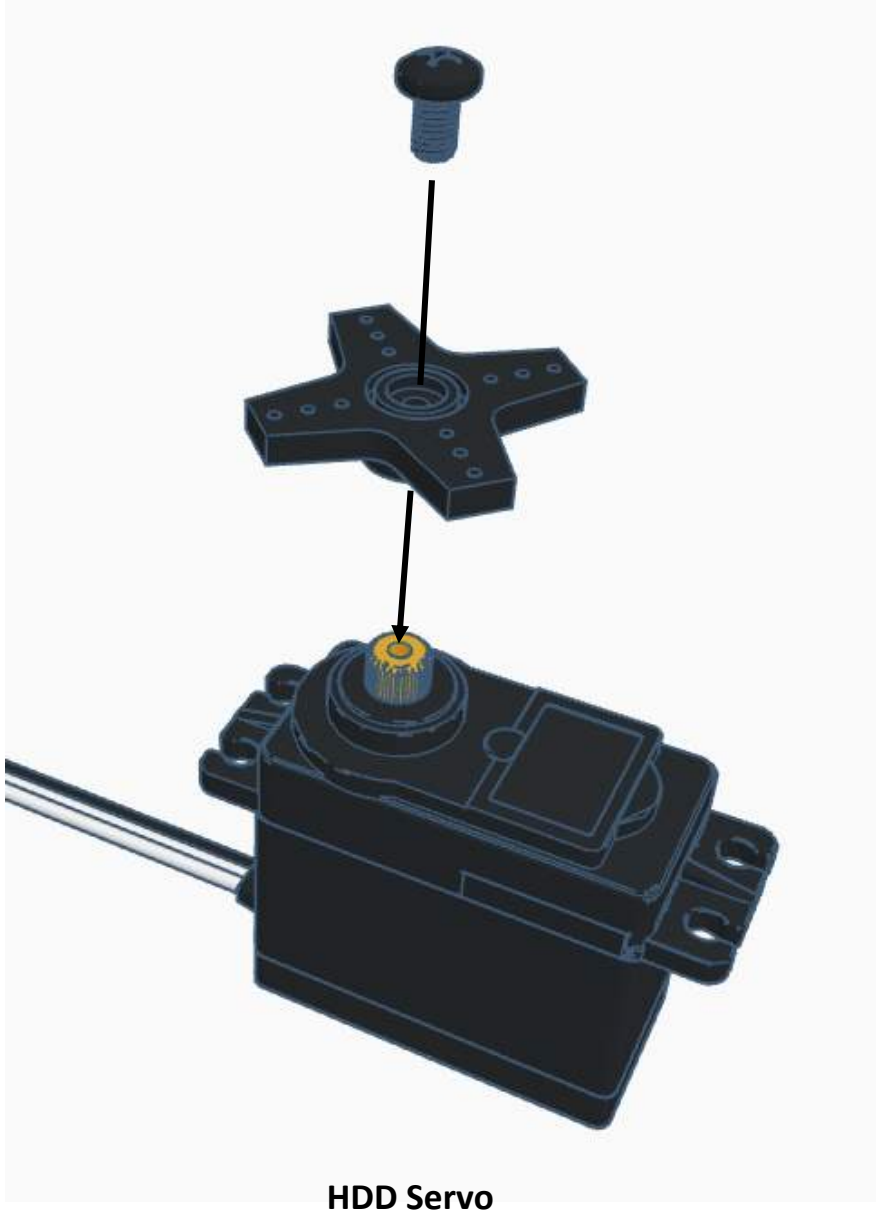
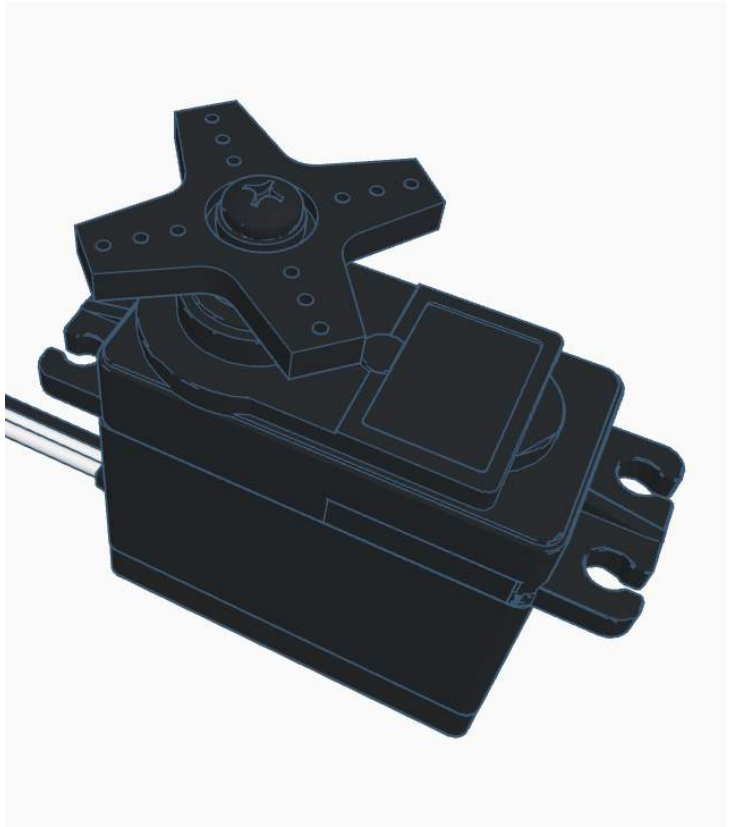


HDD Servo



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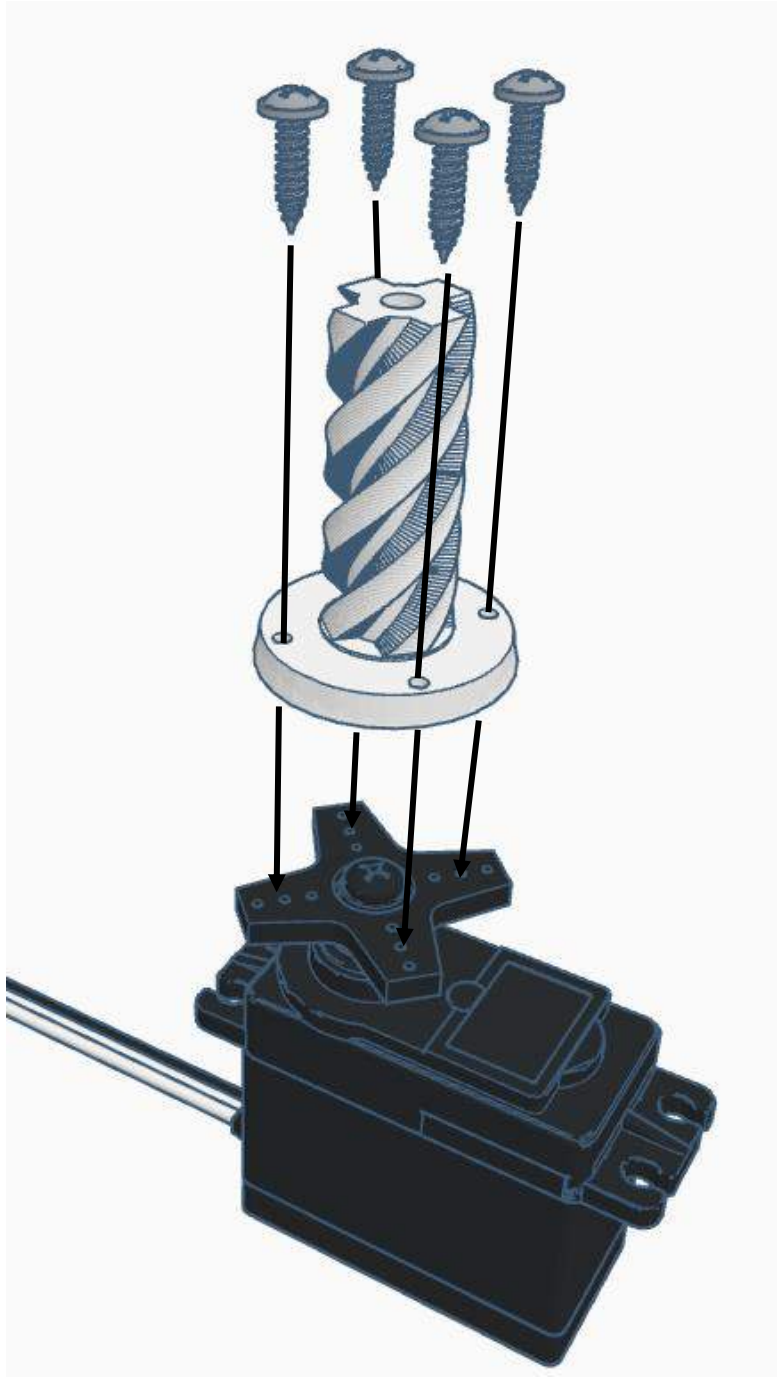

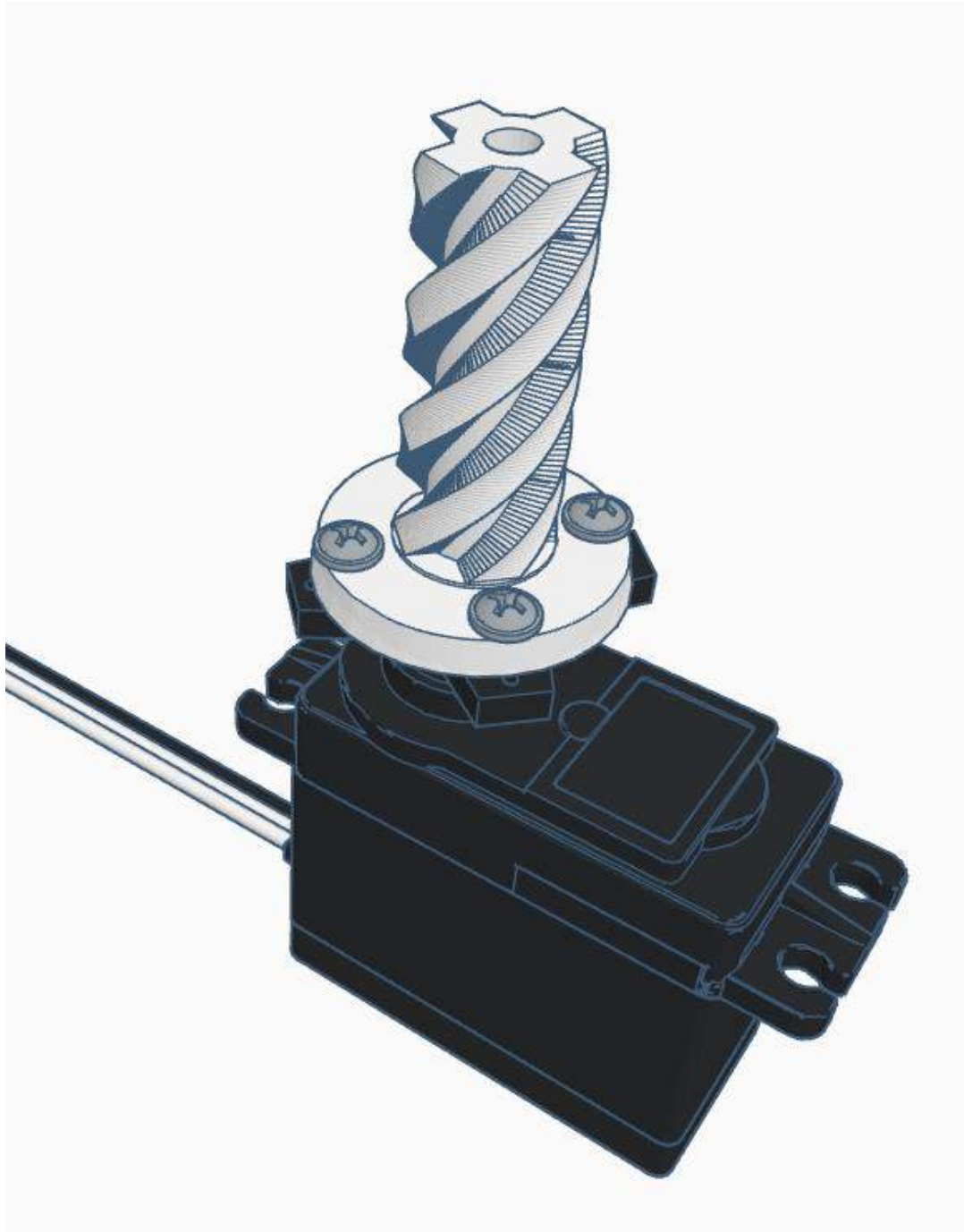

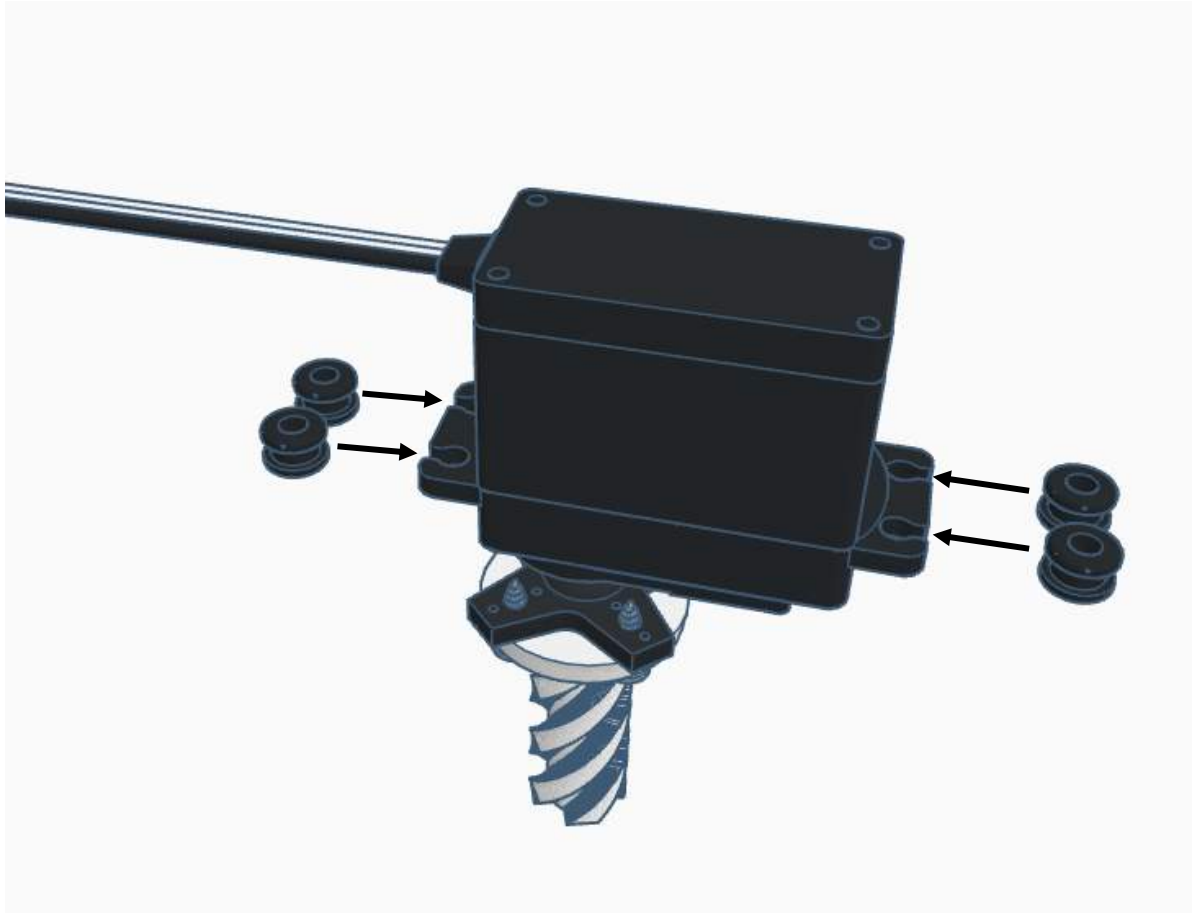

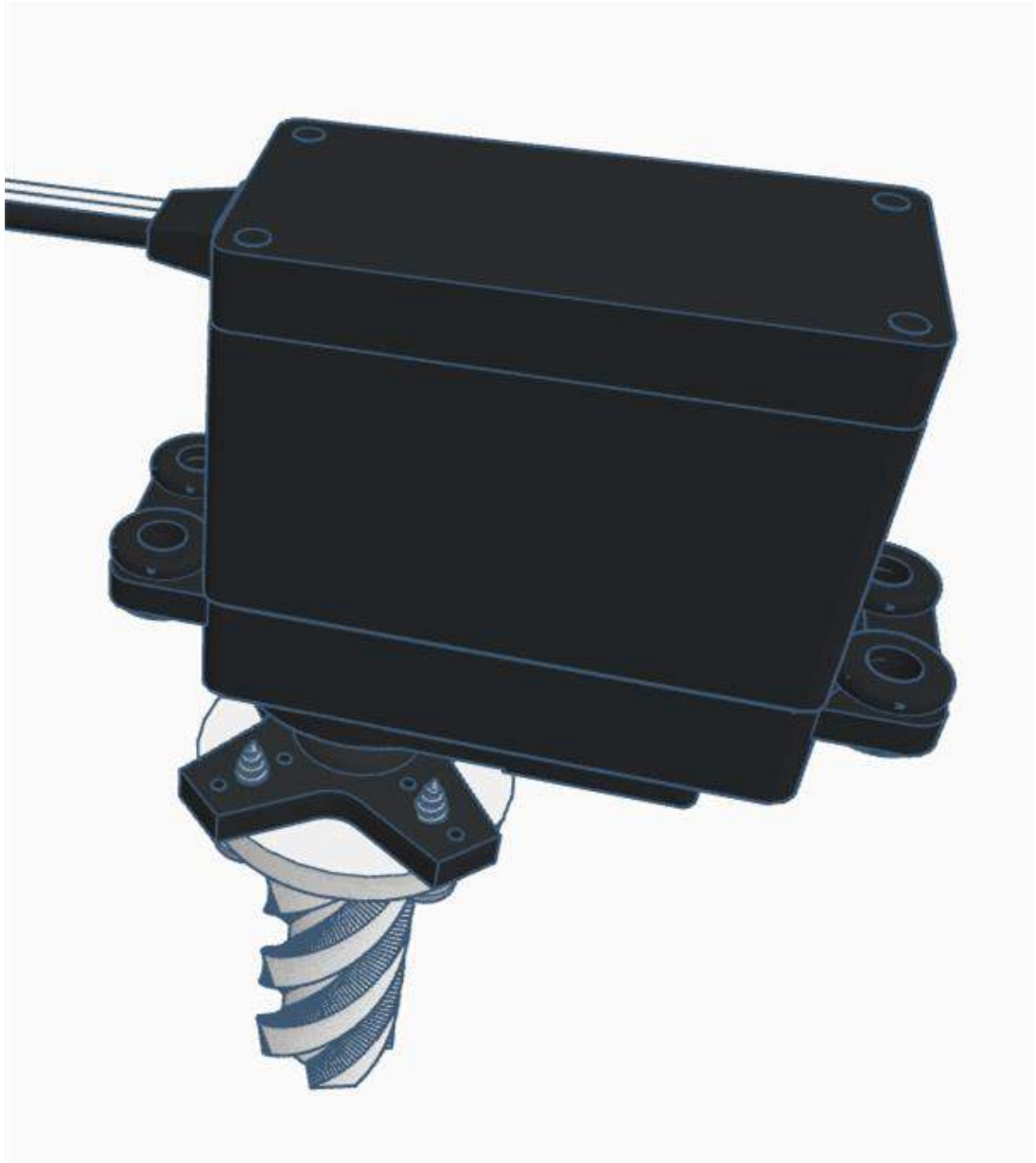

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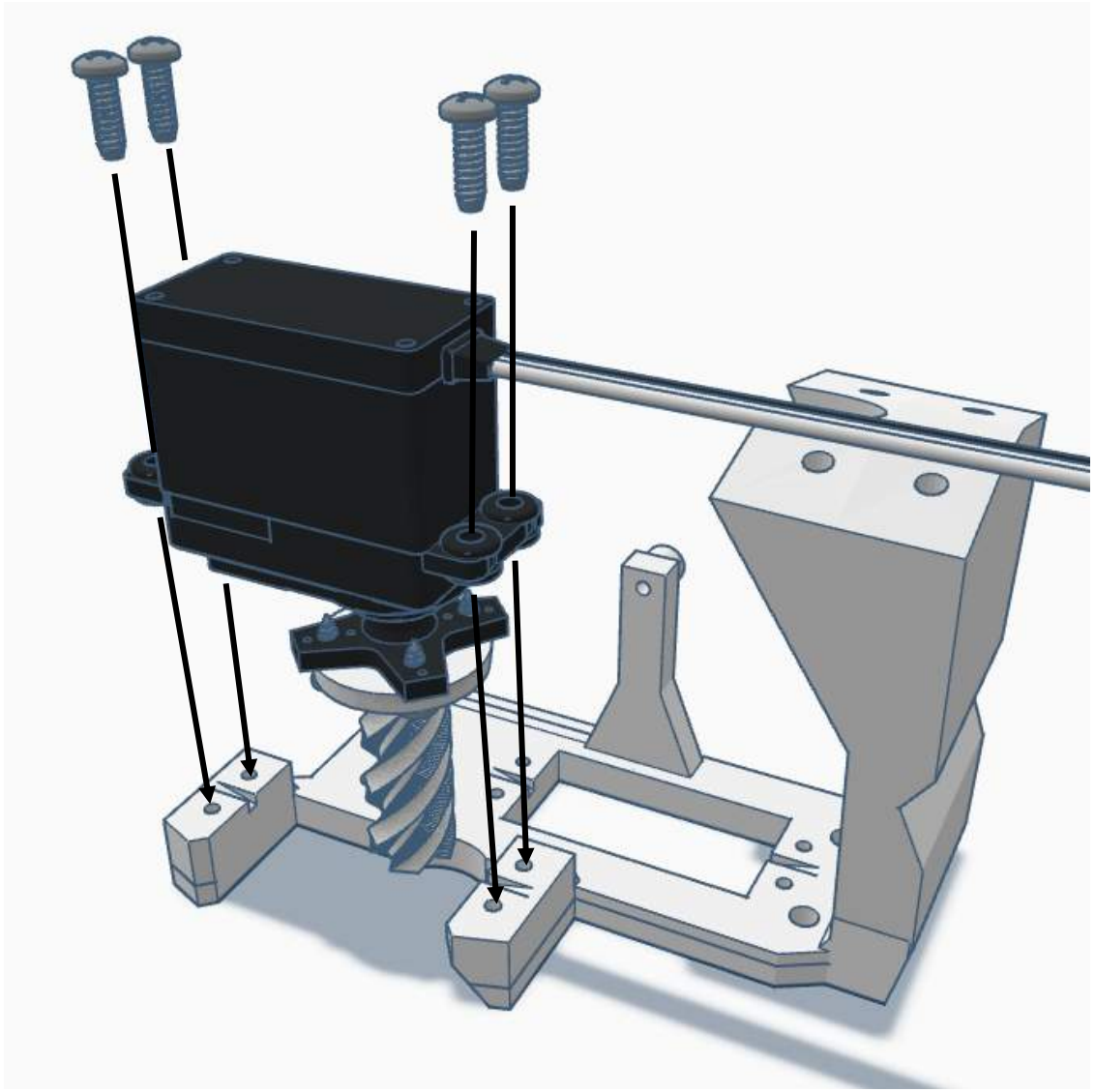

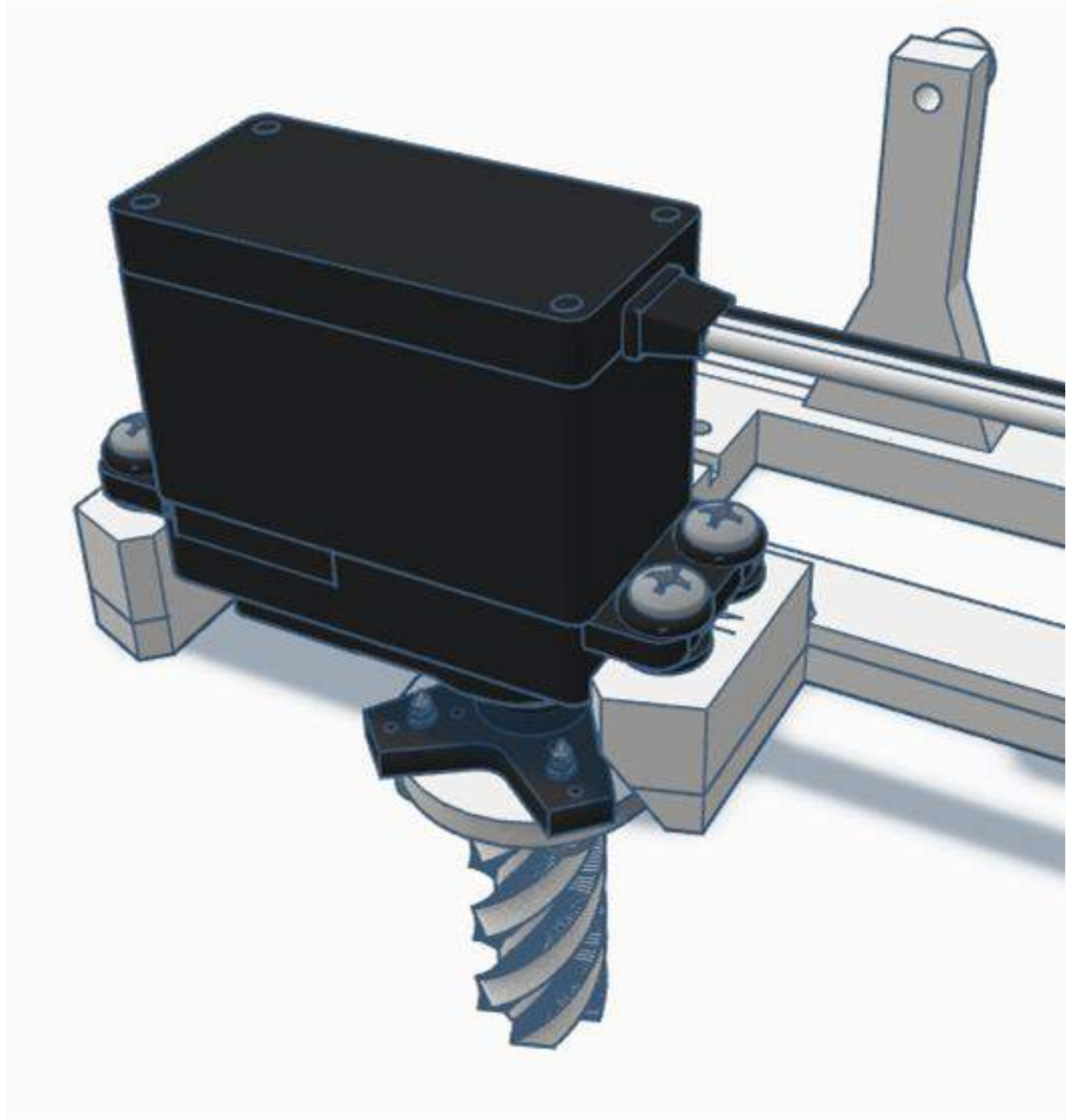

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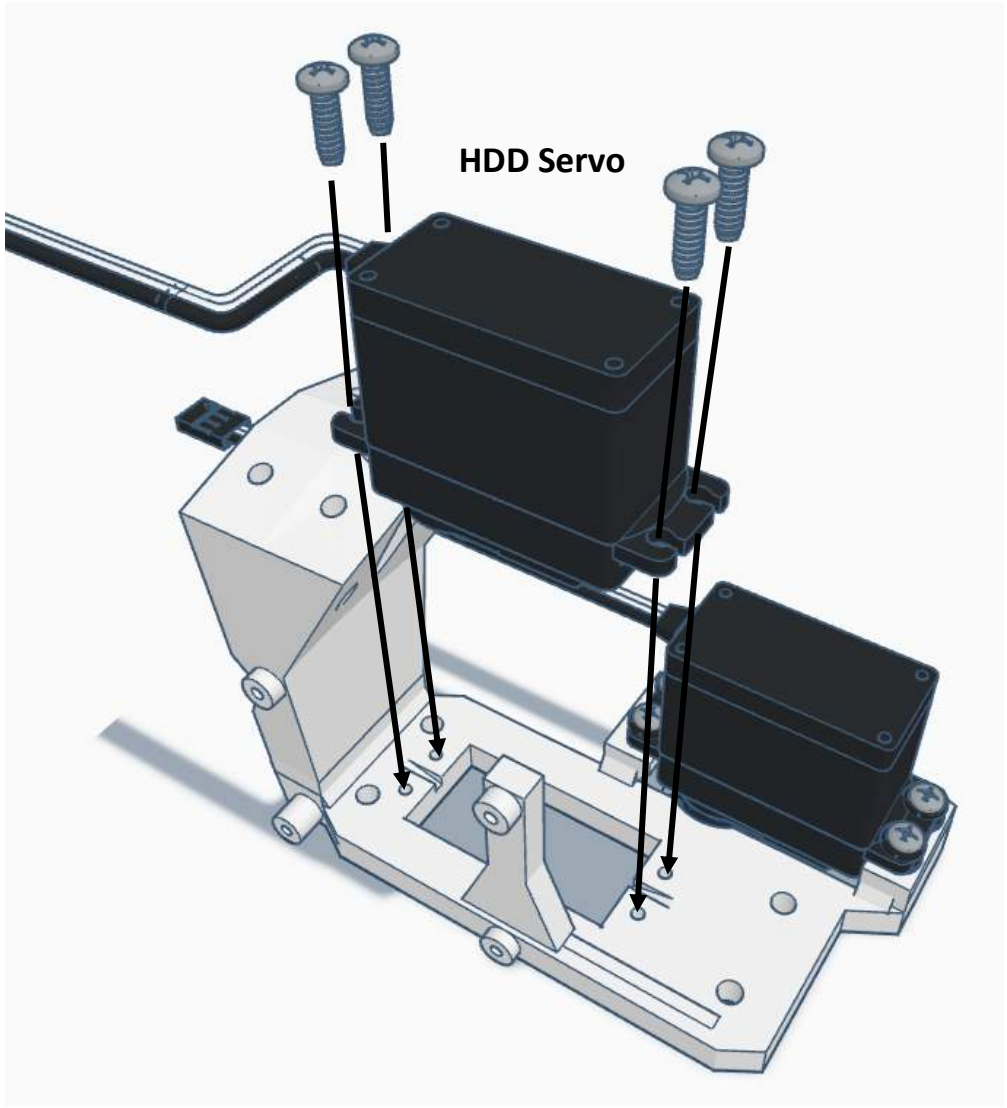

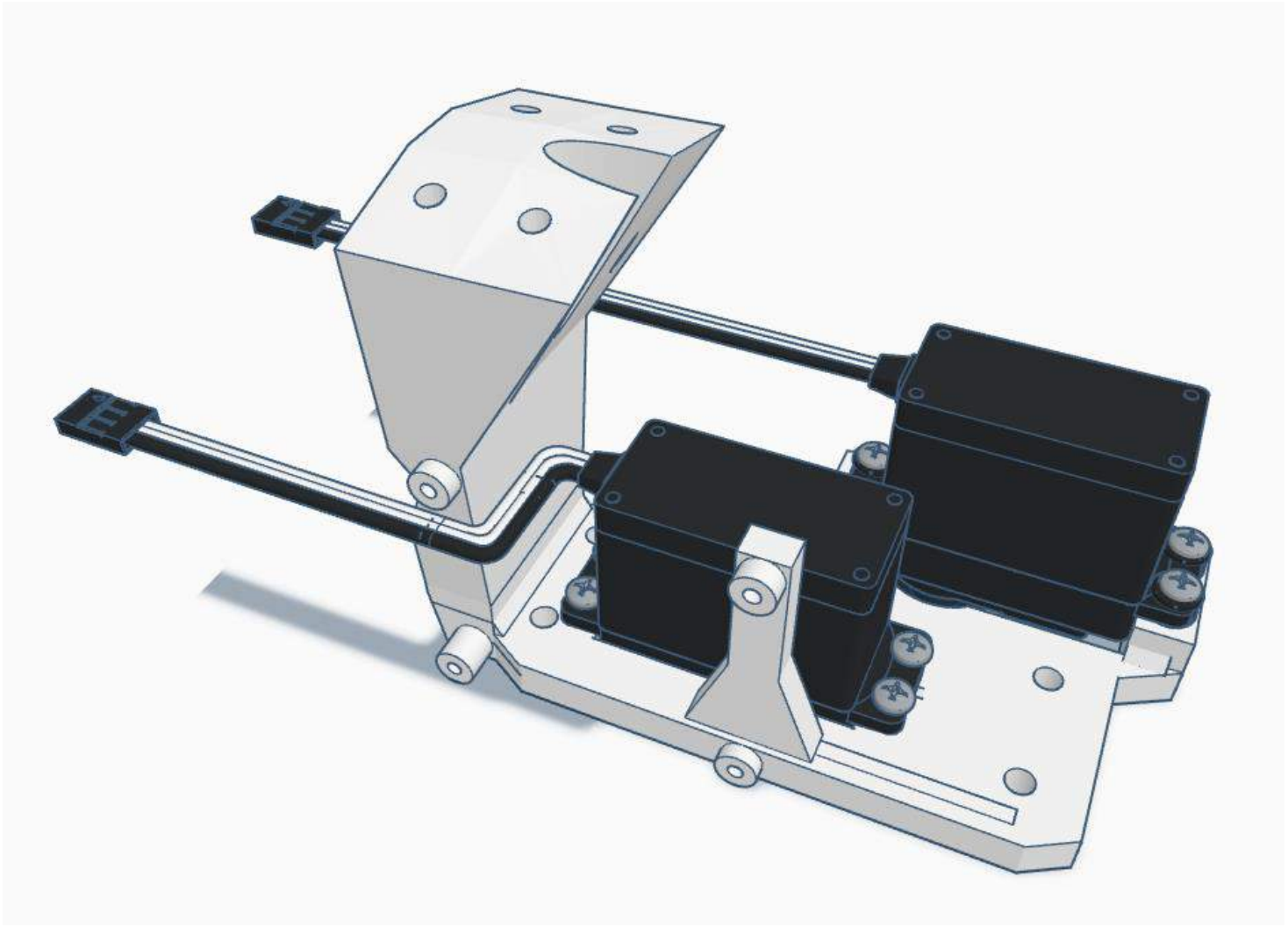

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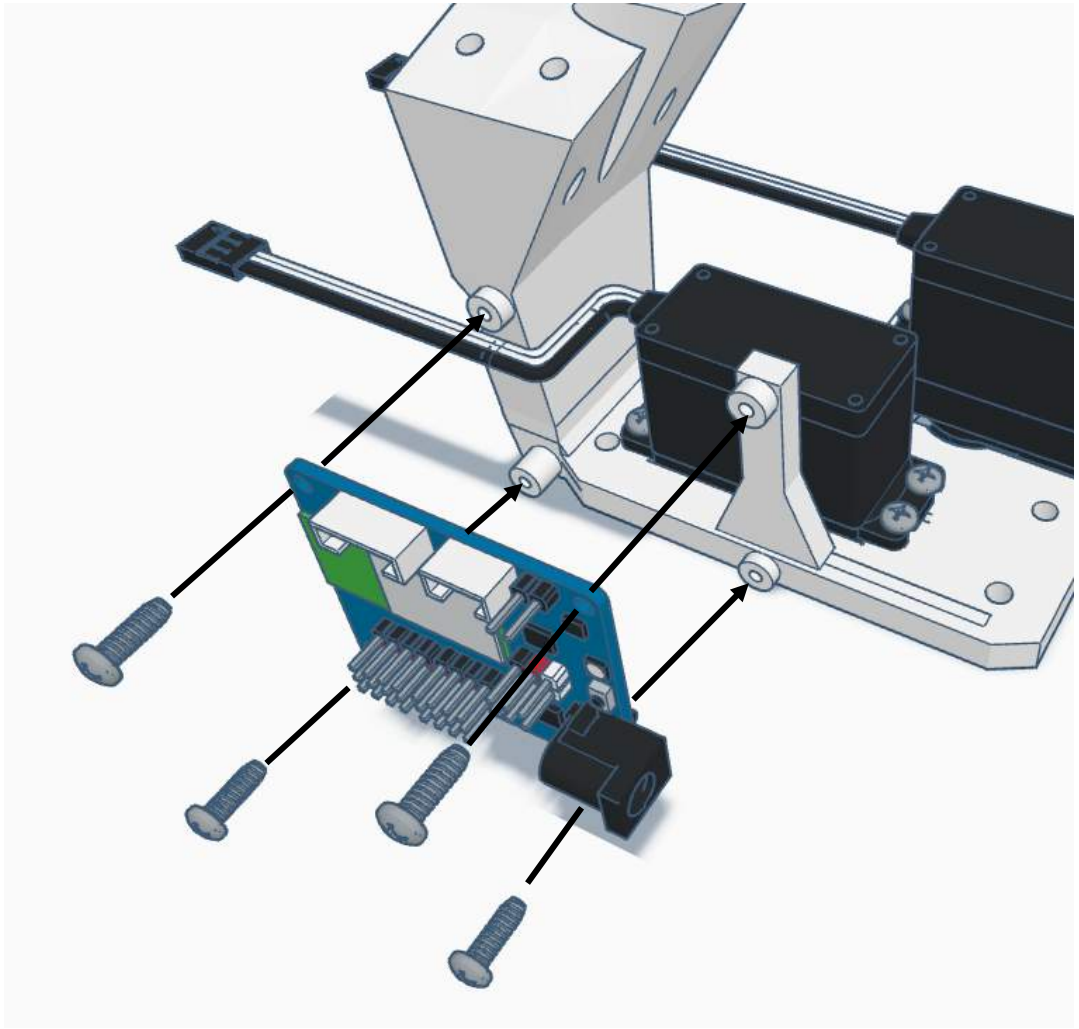
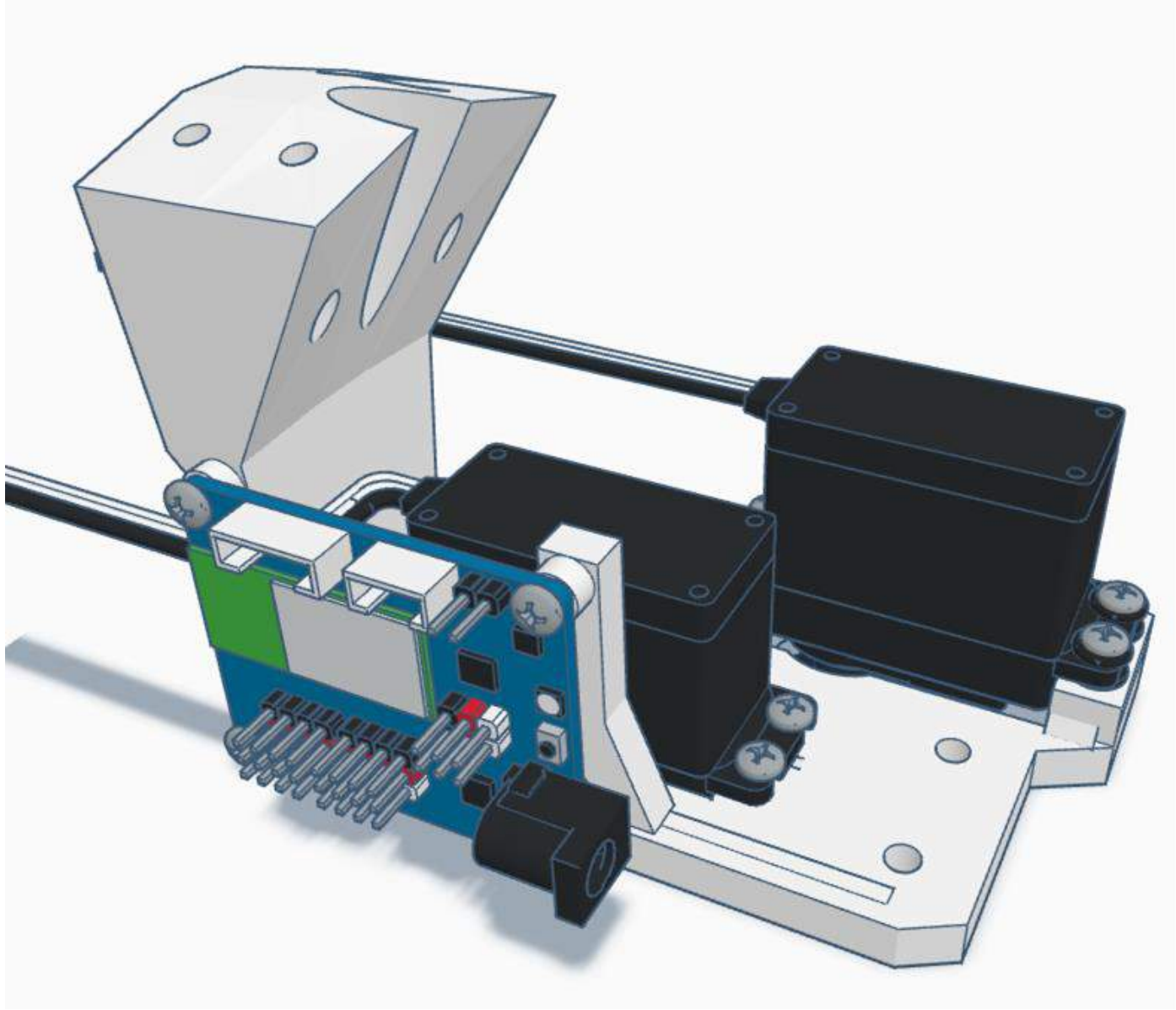
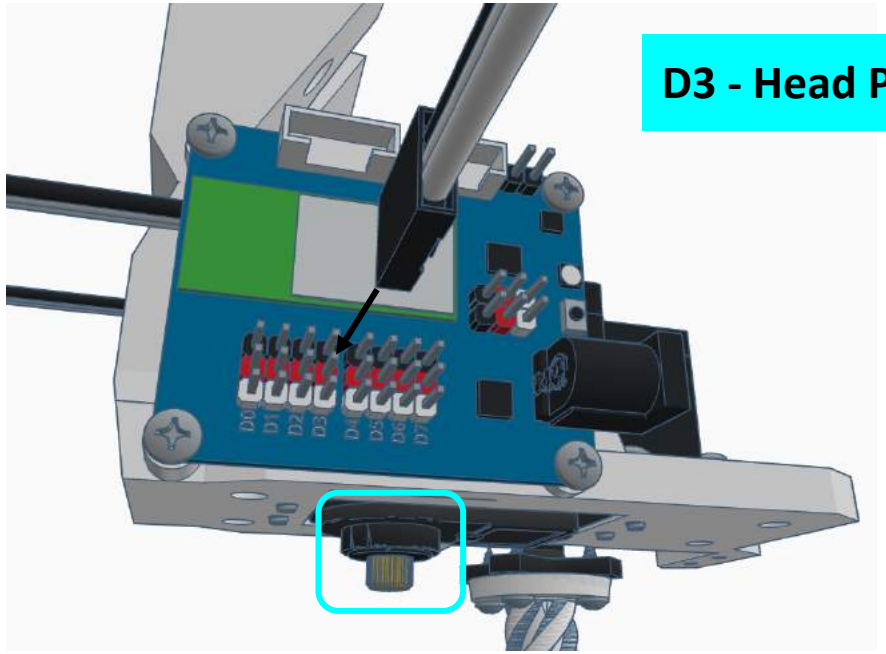
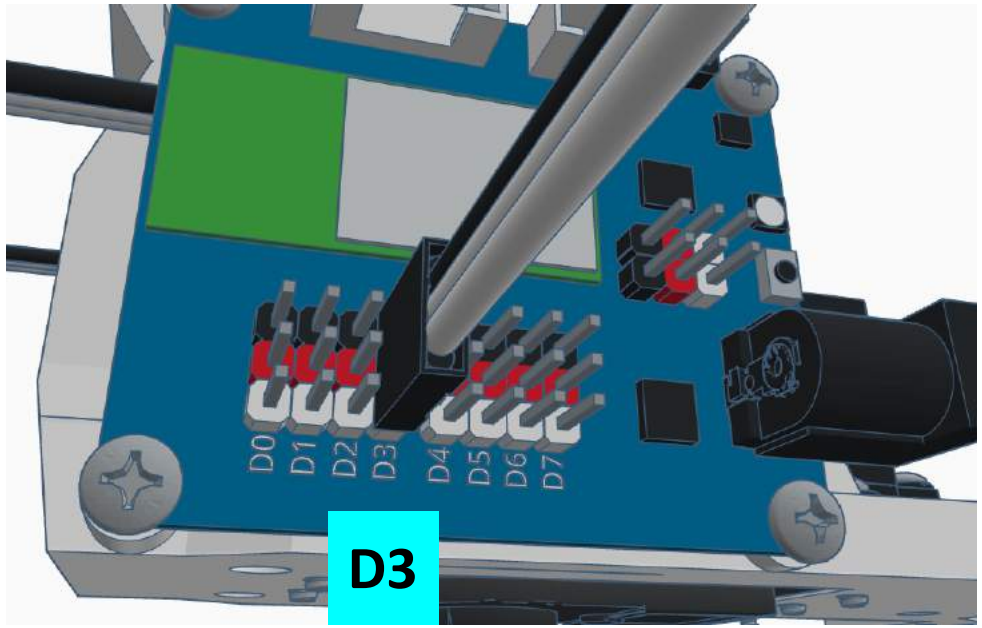





D3 - Head Pan Servo


D0
D1
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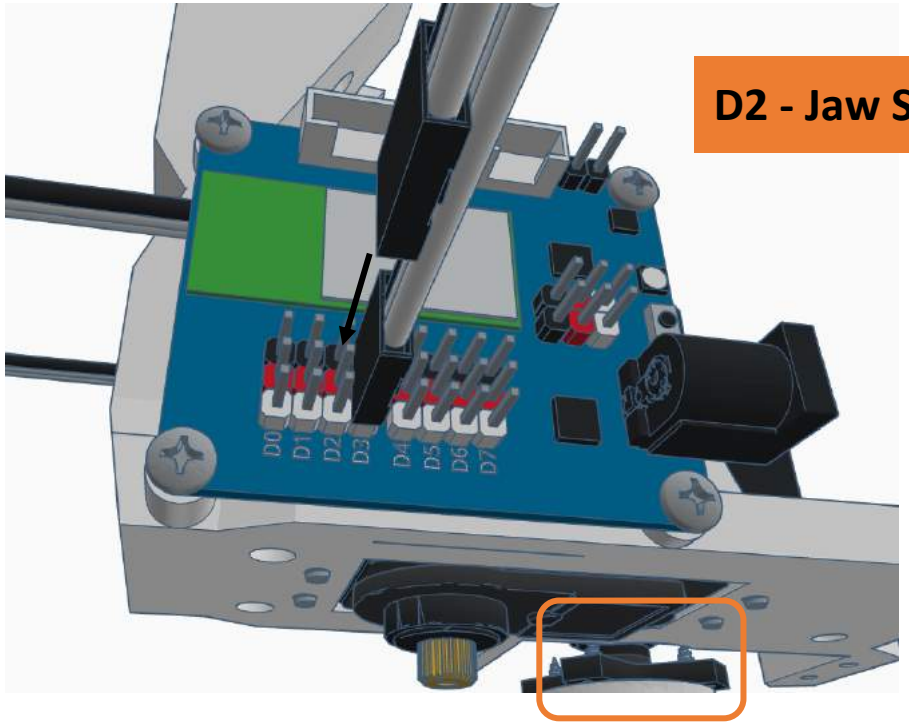
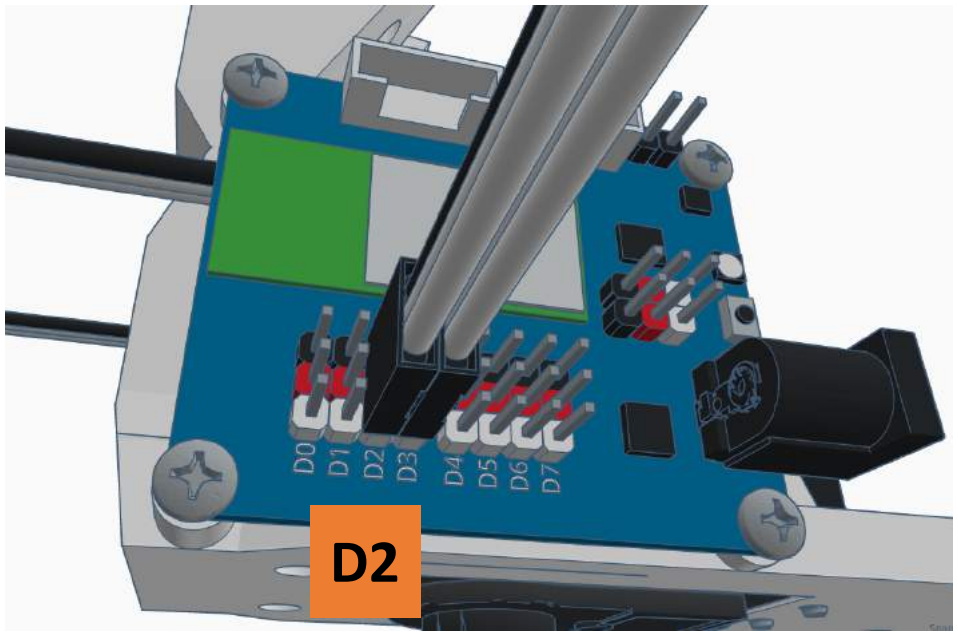
D3


D2 - Jaw Servo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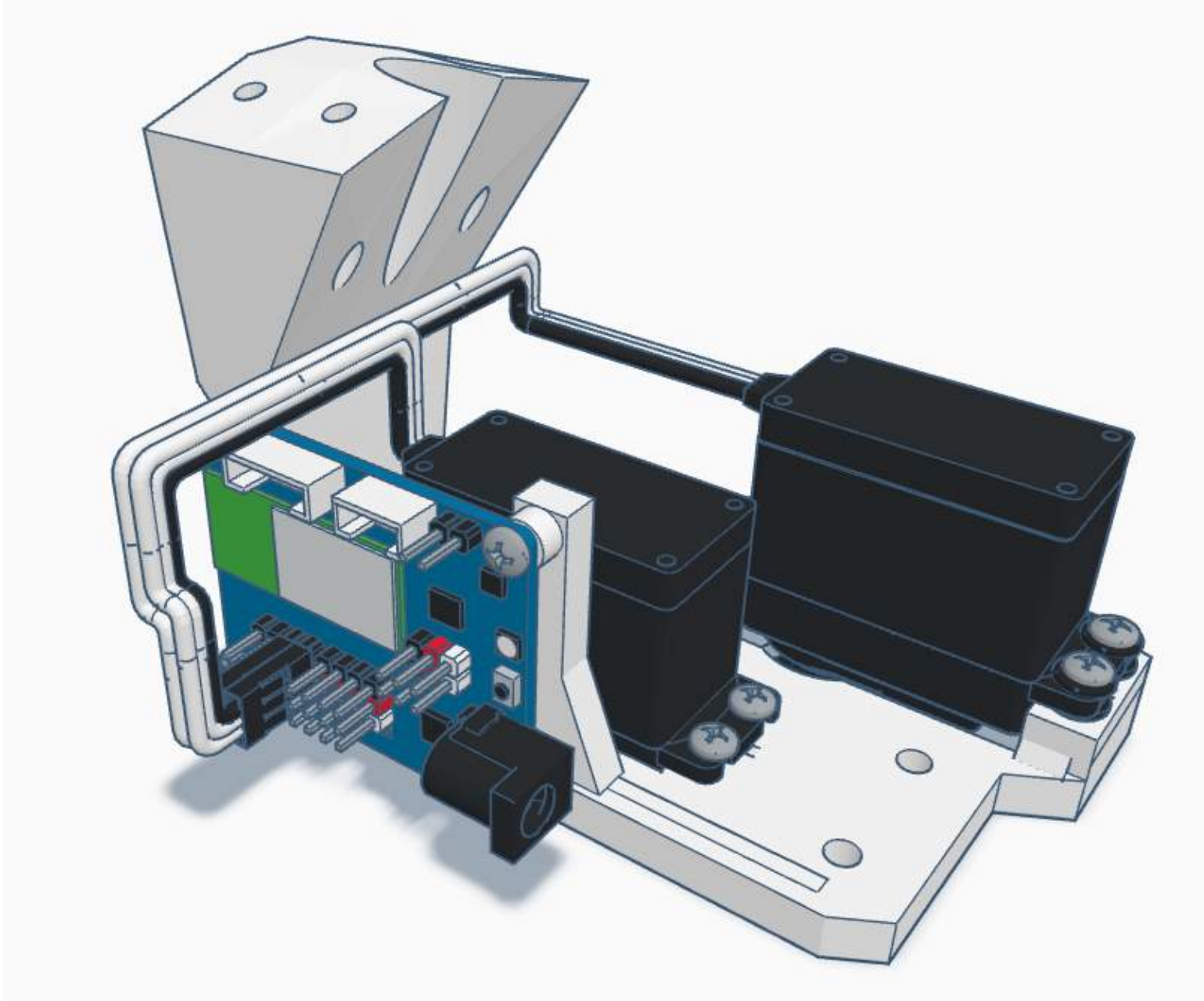

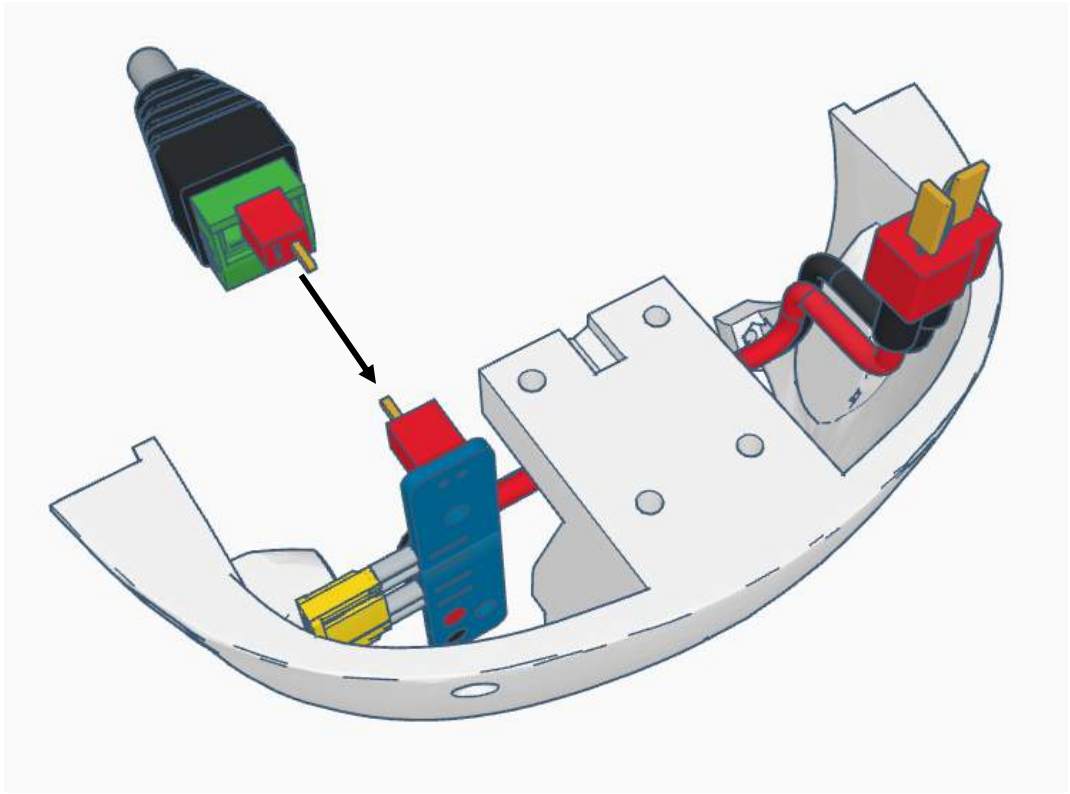

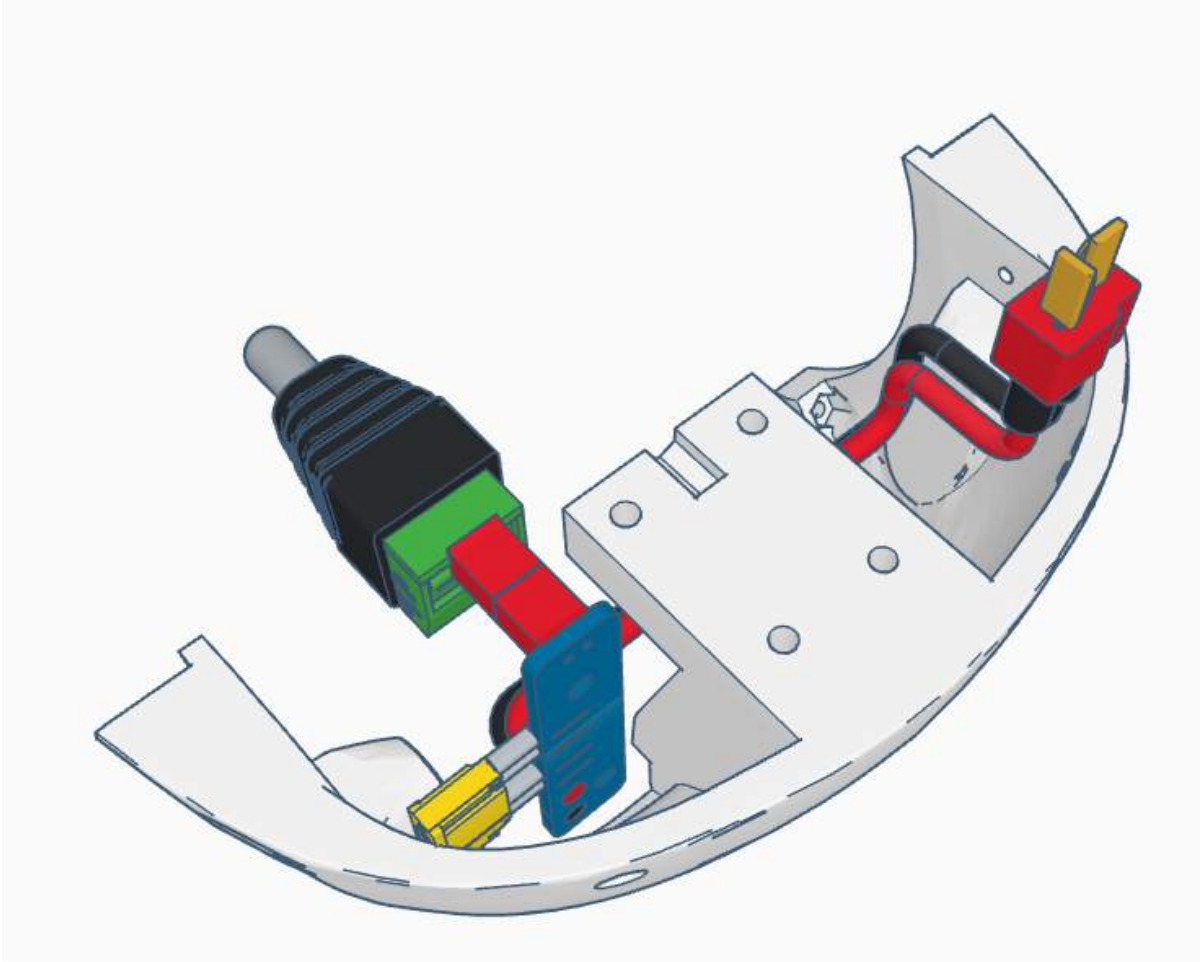

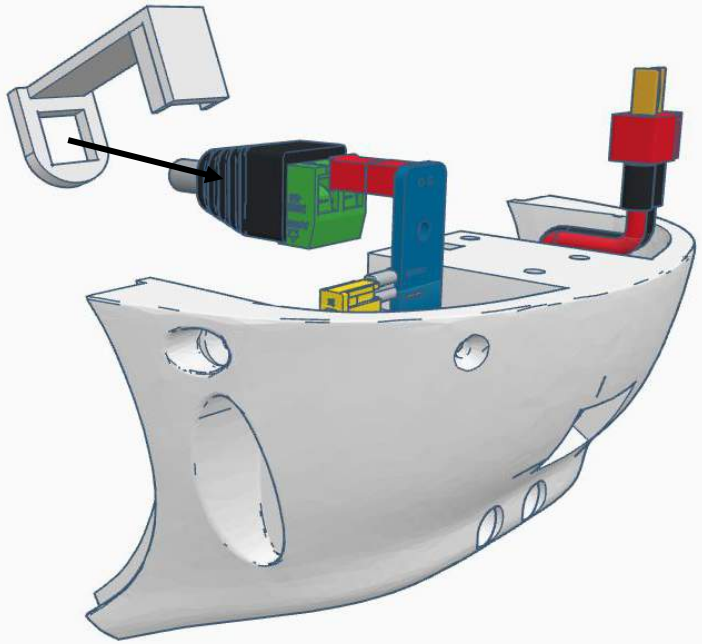

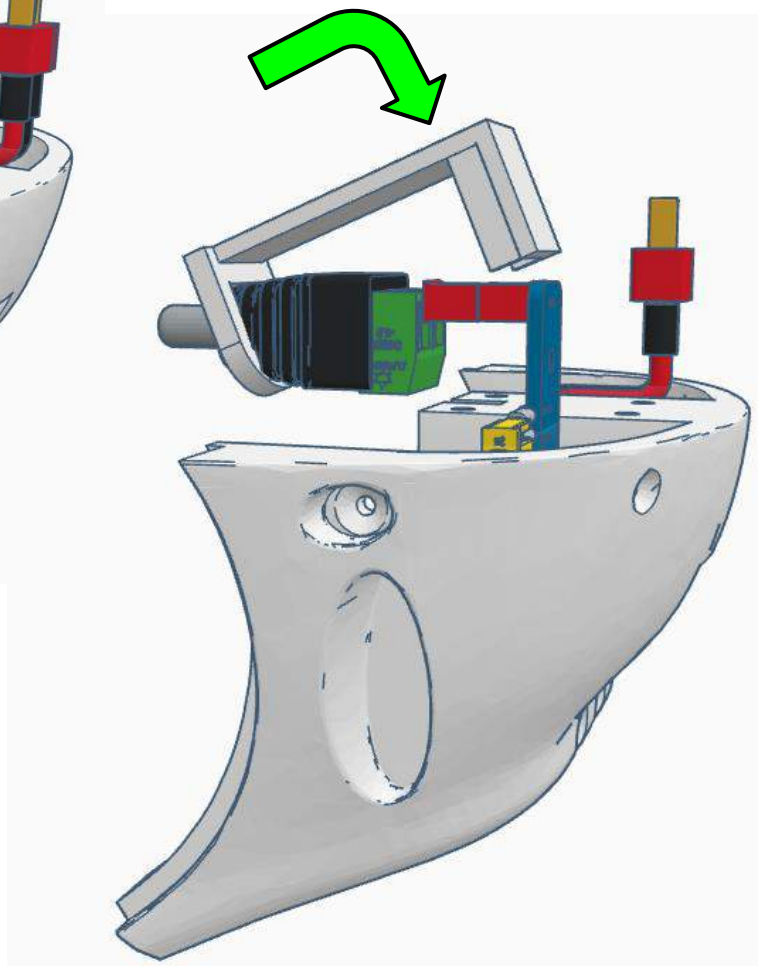

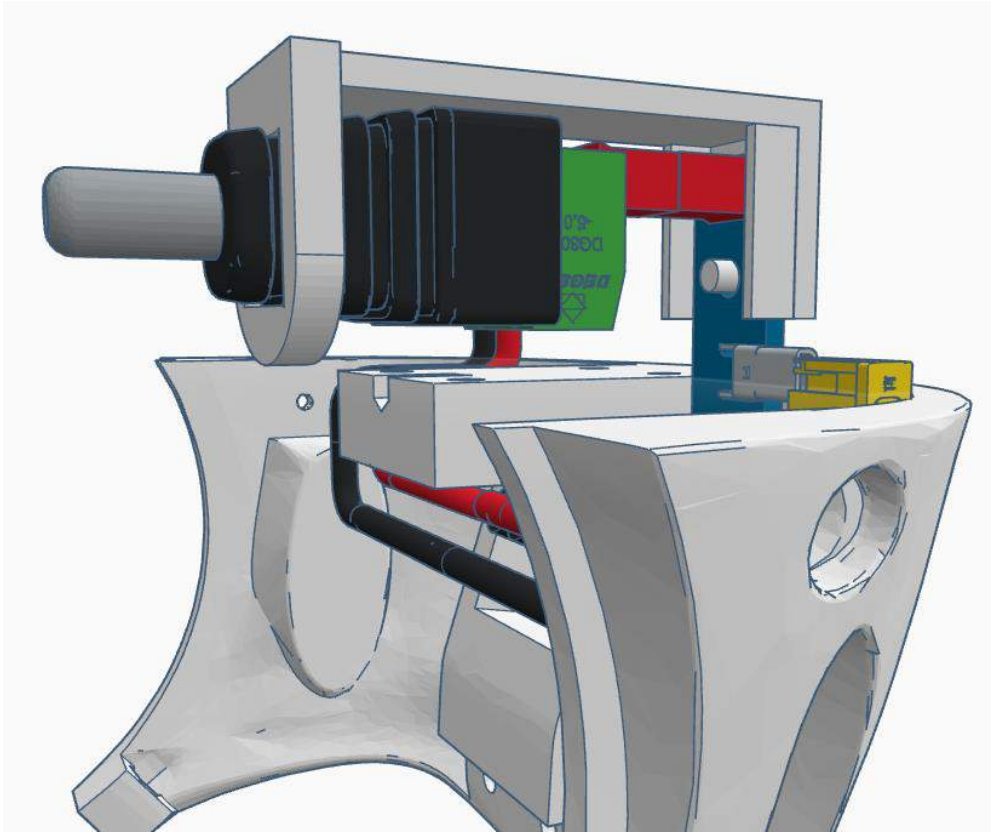

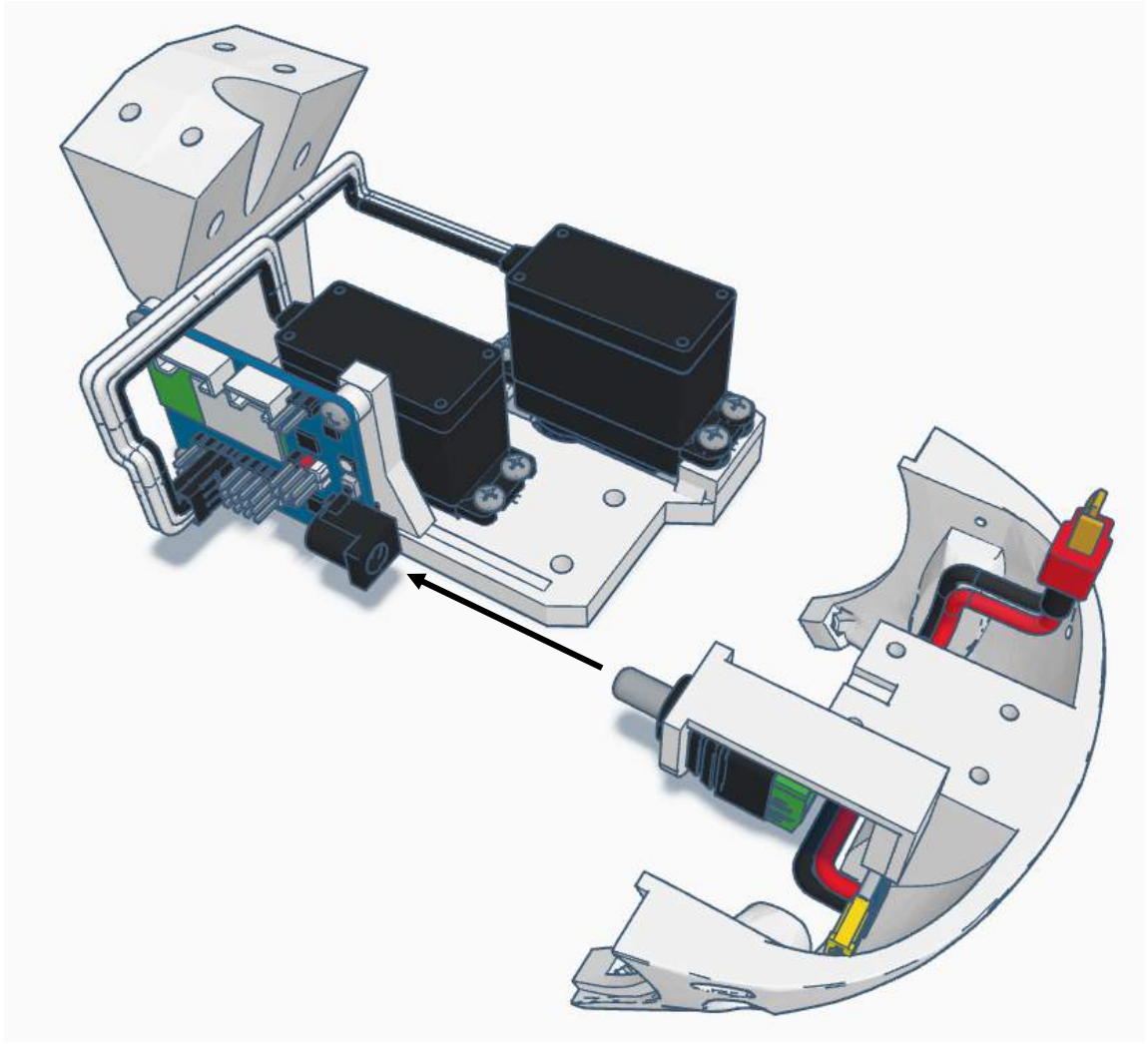

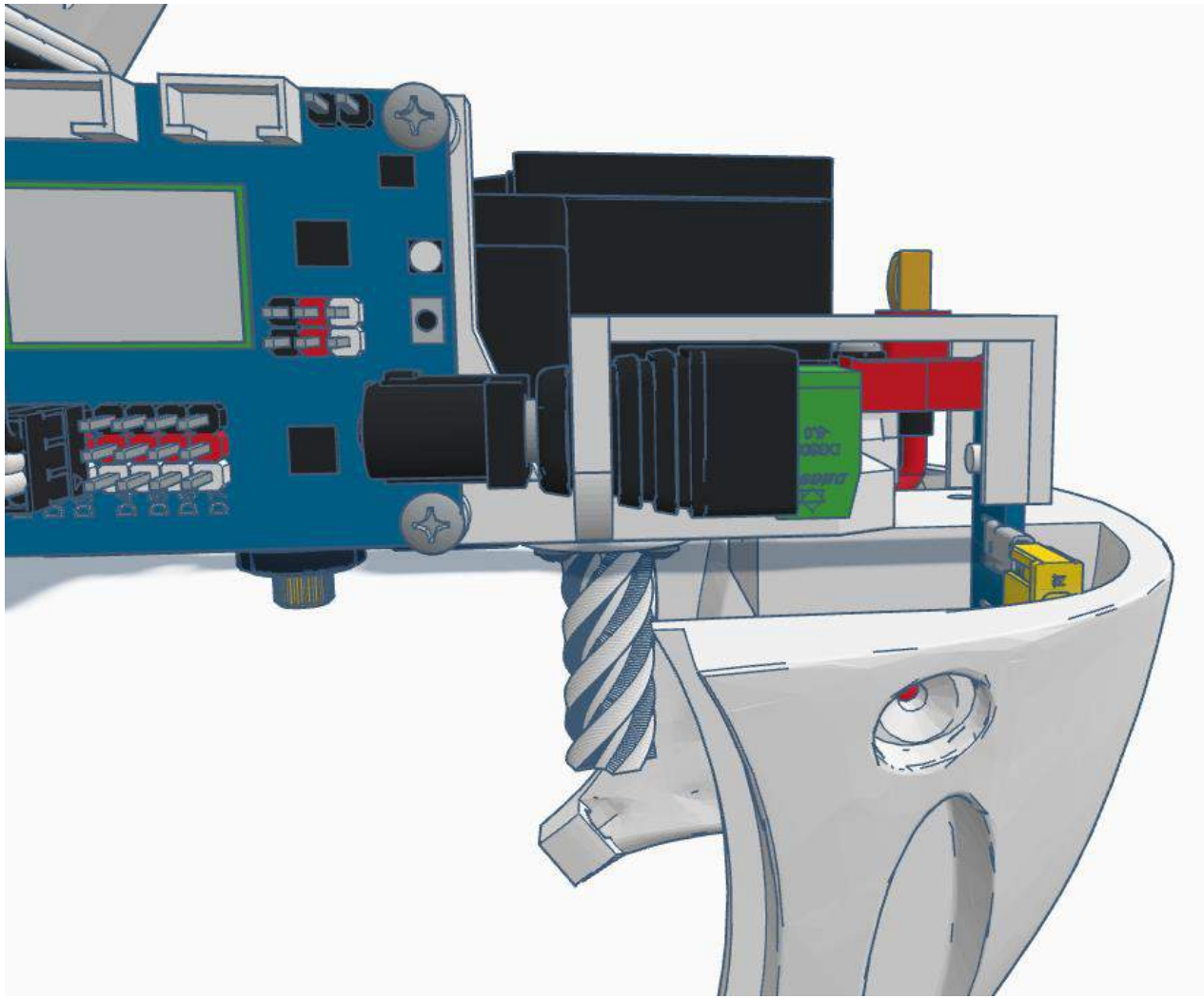

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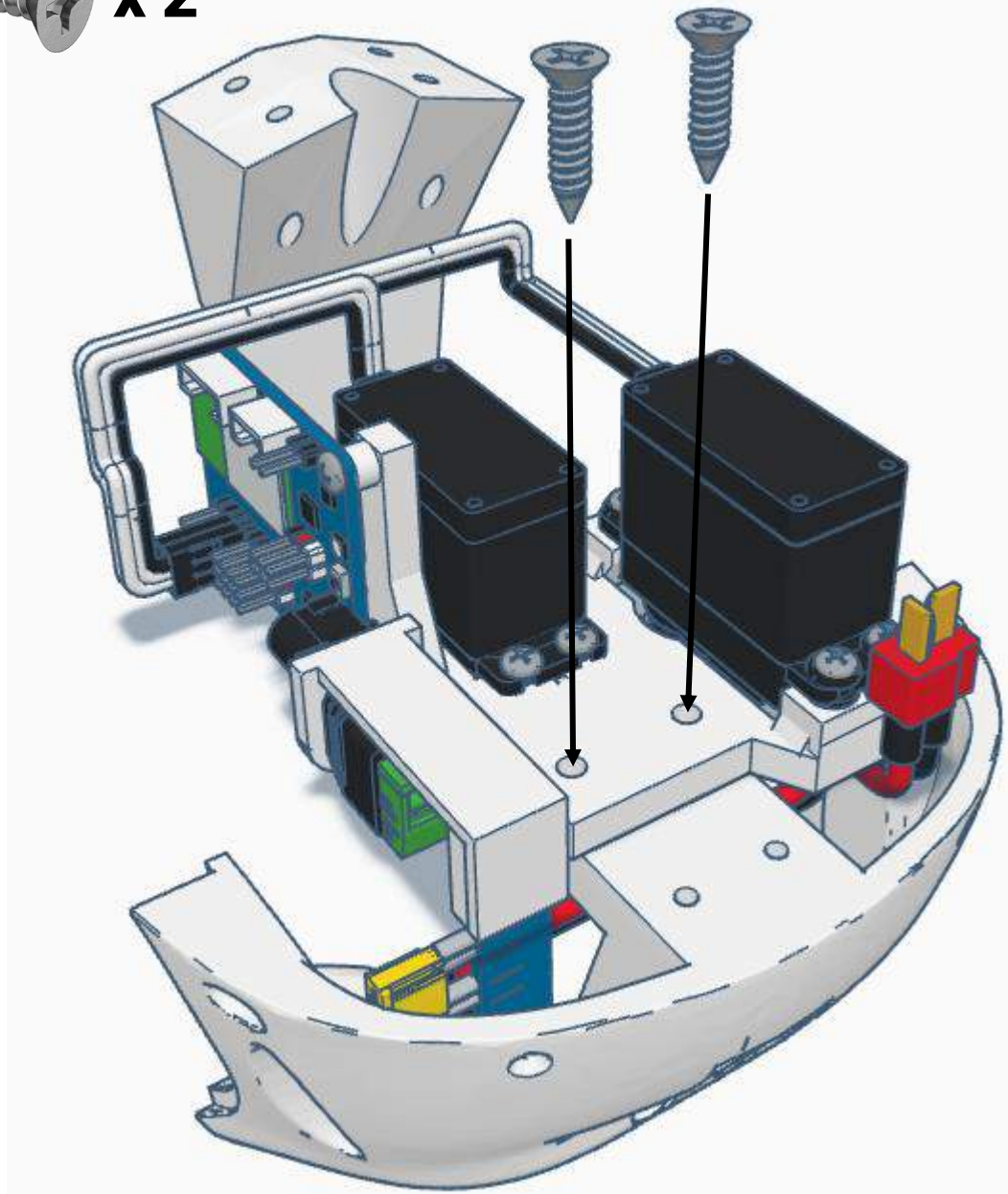
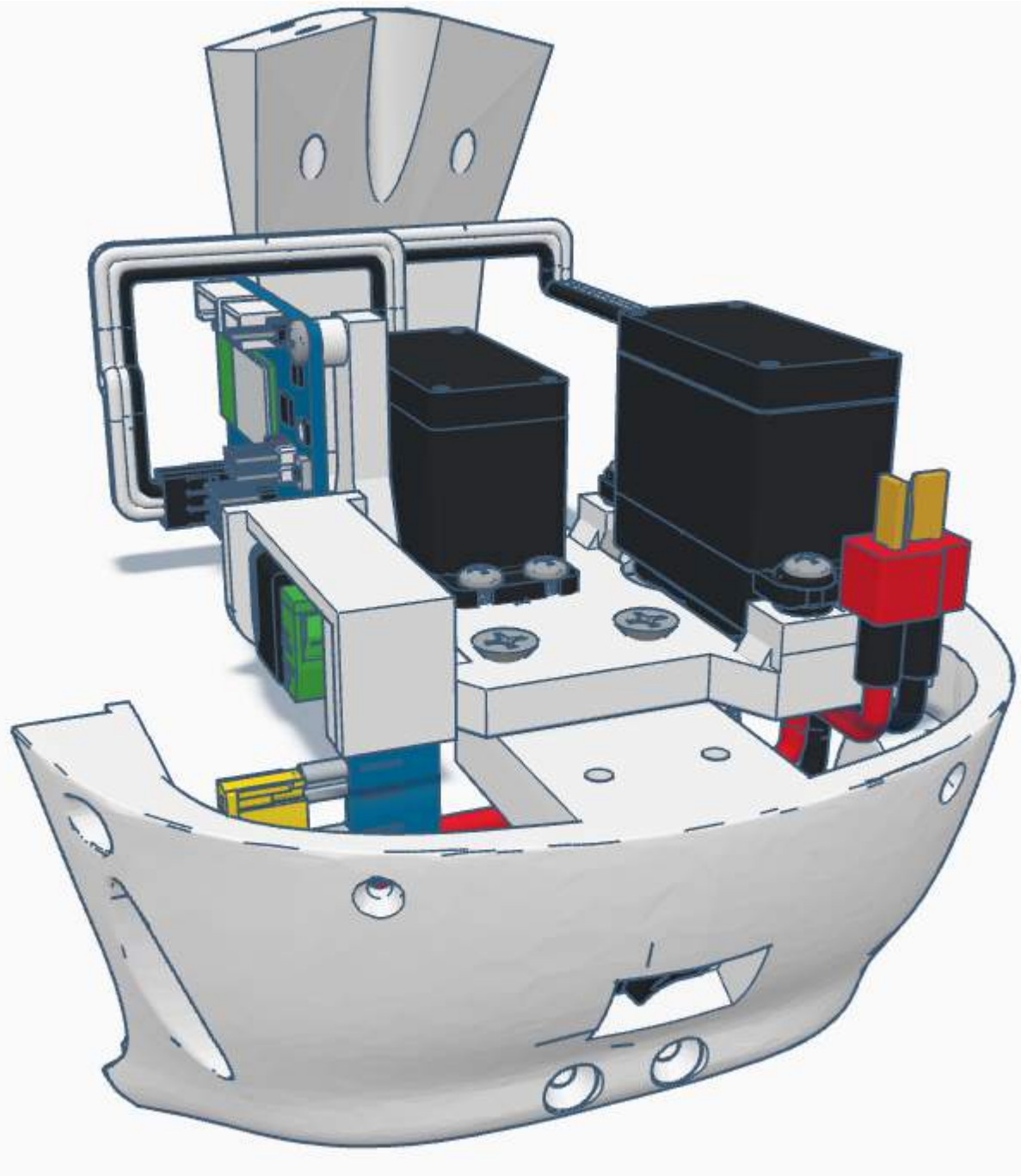
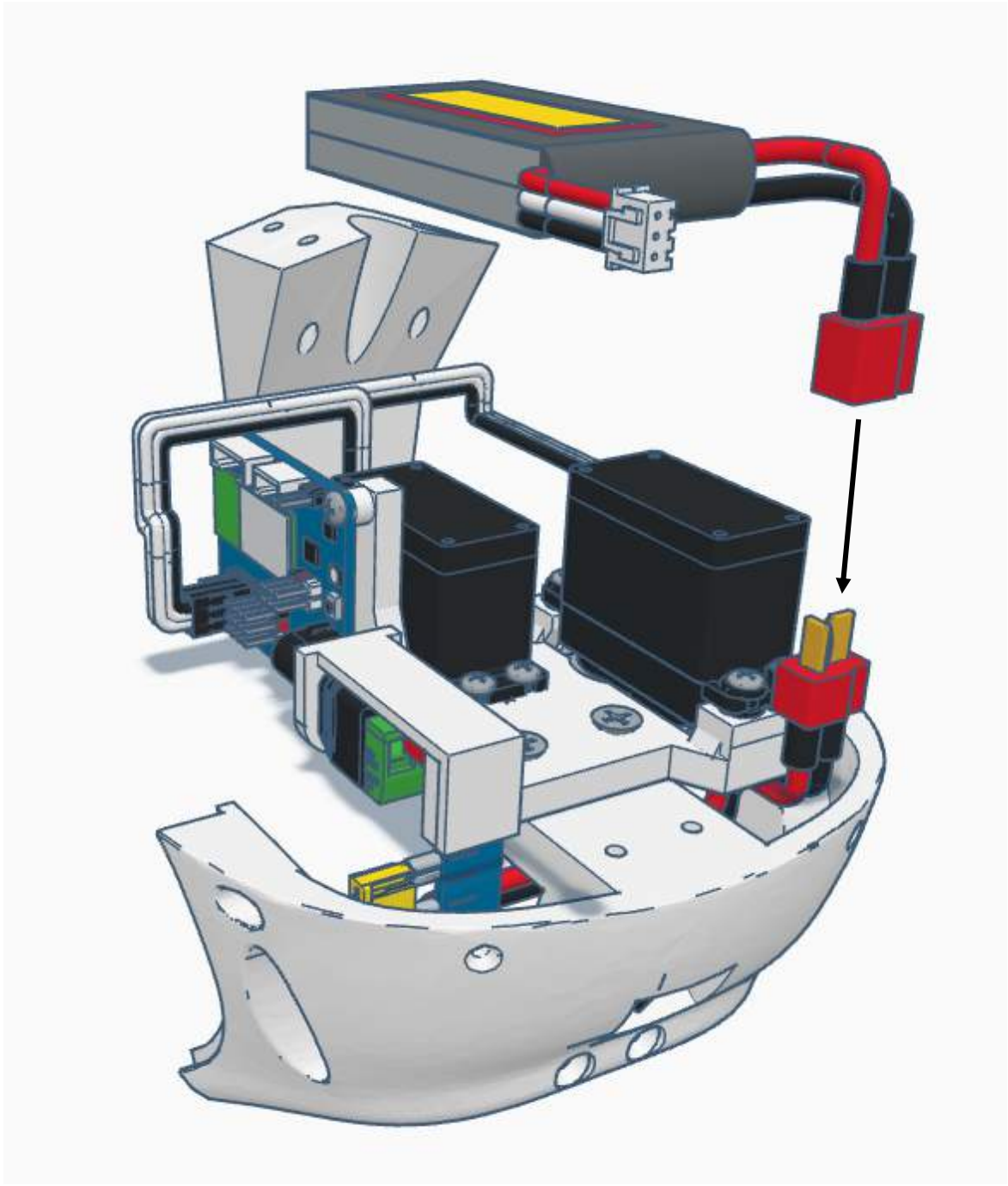
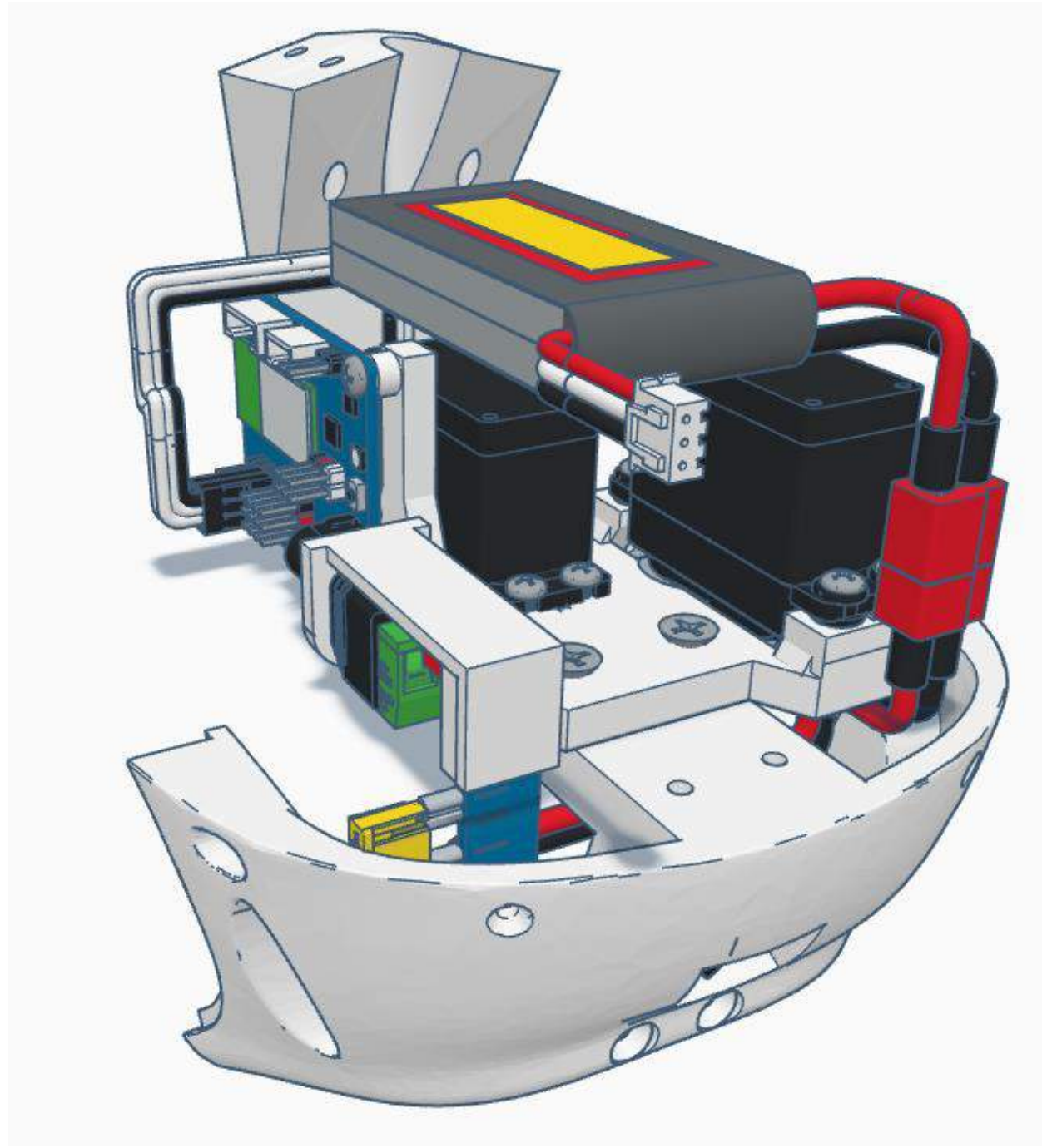
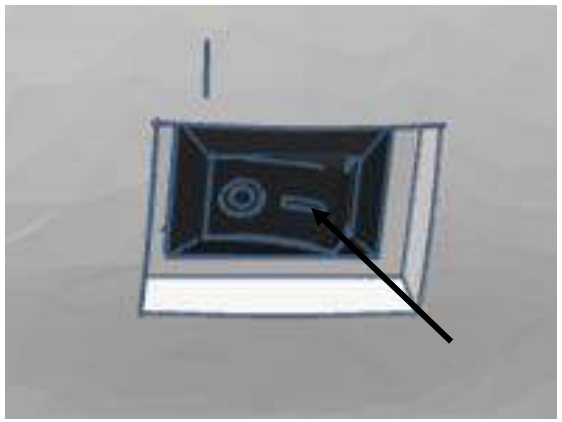
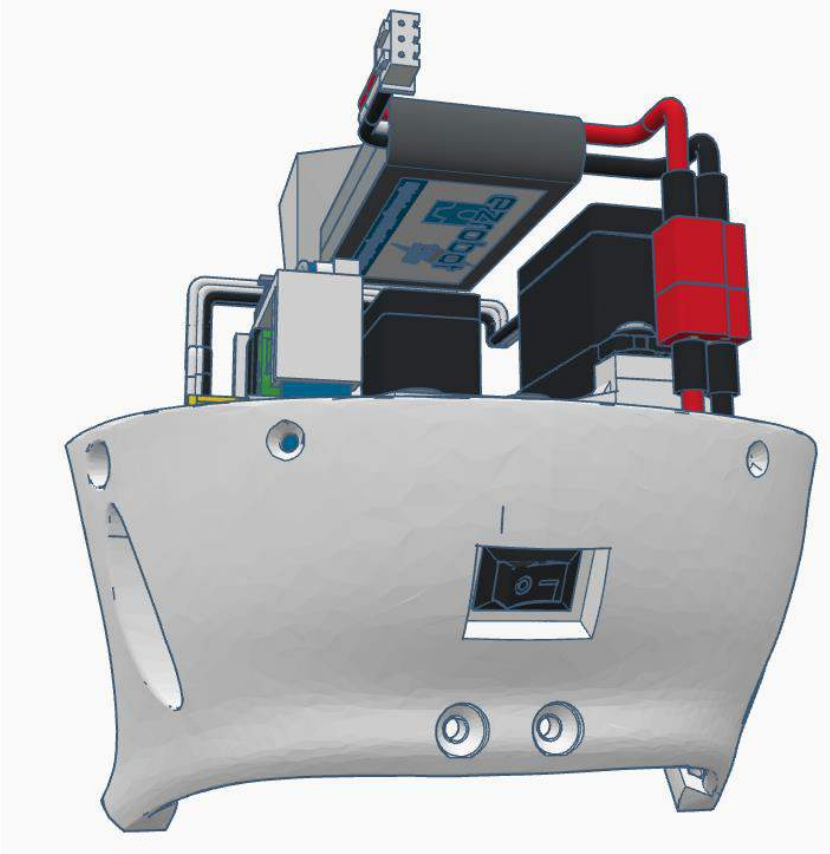


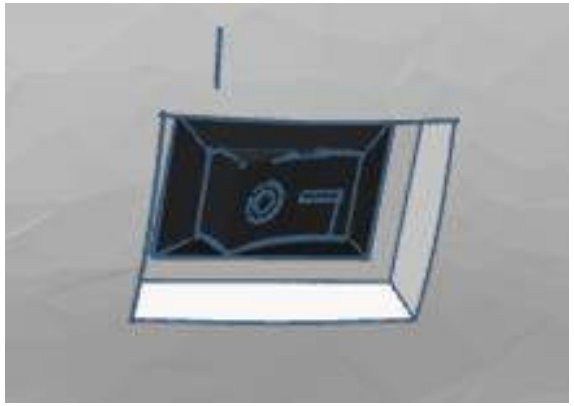




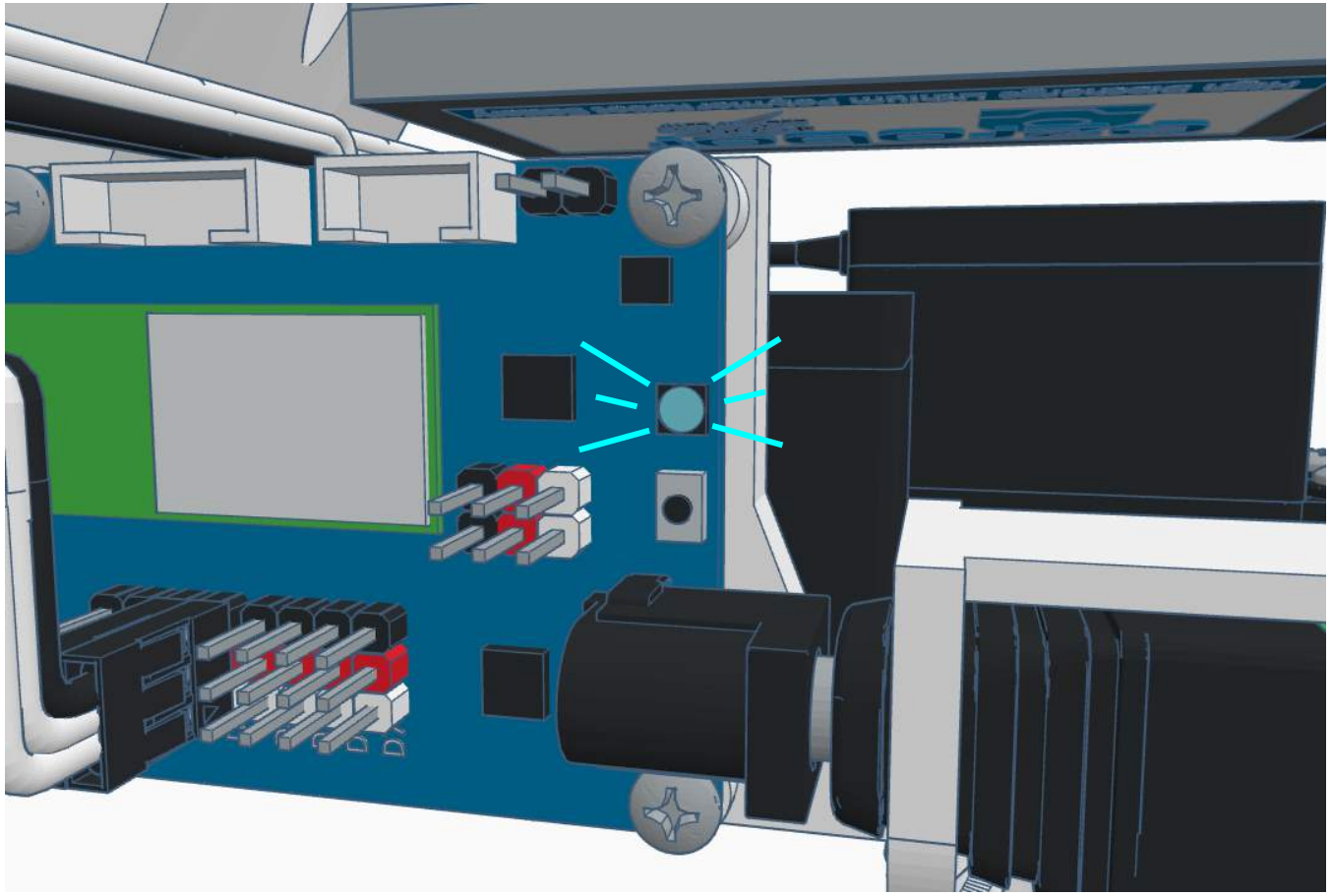


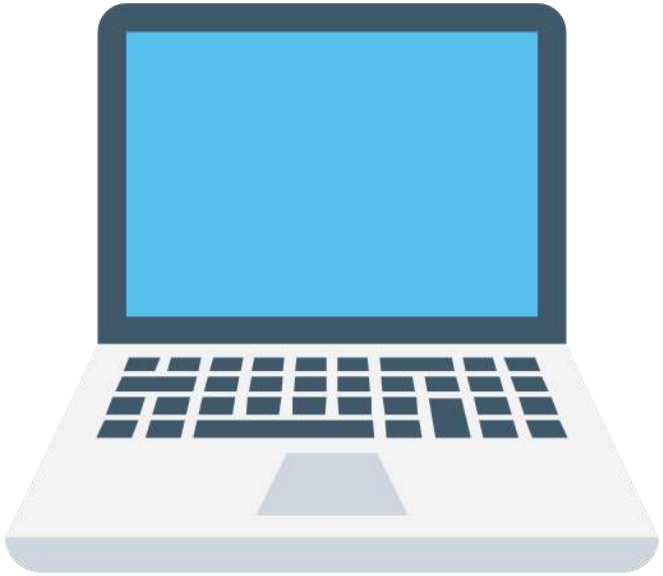


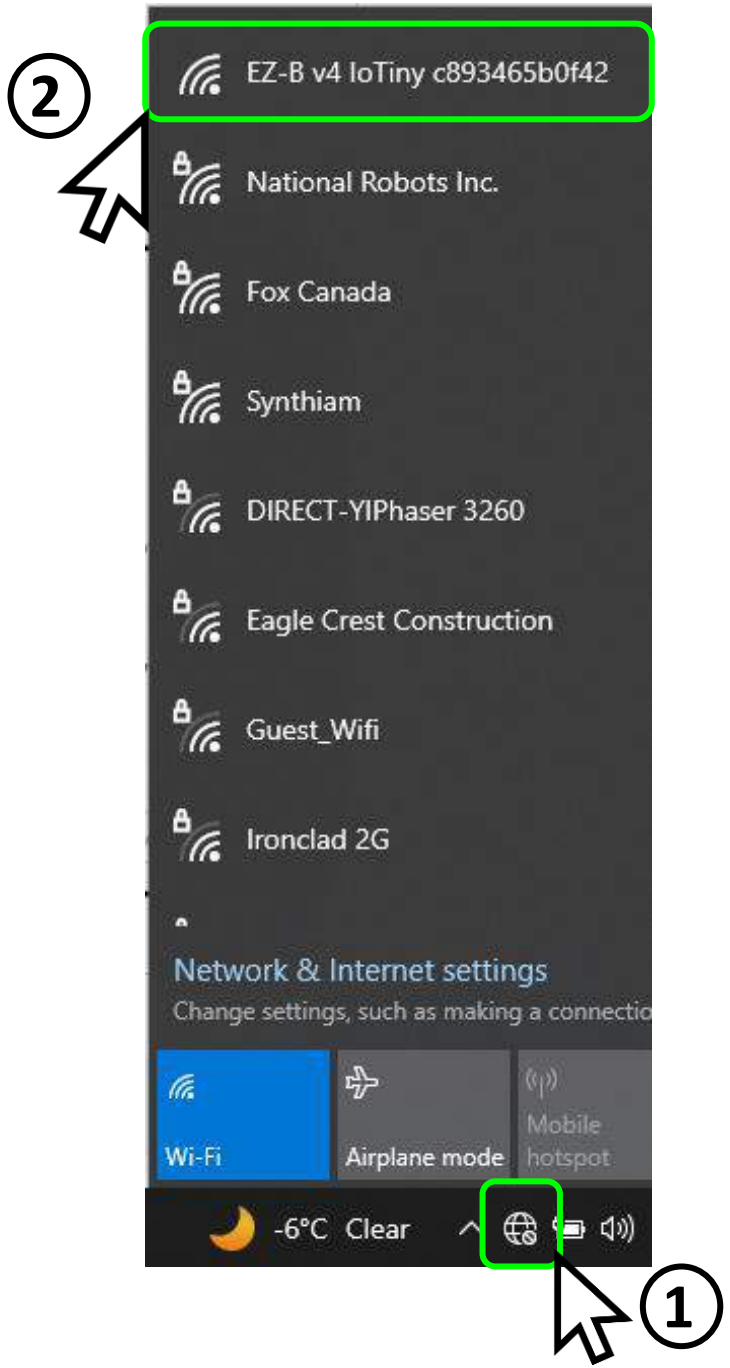


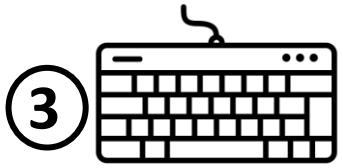


BLUE FLASHING LED ON IOTINY = READY TO CONNECT TO COMPUTER






2
EZ-B v4 IoTiny c893465b0f42
National Robots Inc.
Fox Canada
Synthiam
DIRECT-YIPhaser 3260
Eagle Crest Construction
Guest_Wifi
Ironclad 2G
Network & Internet settings
Change settings, such as making a connectio
Wi-Fi
Airplane mode
Mobile hotspot
-6°C Clear
1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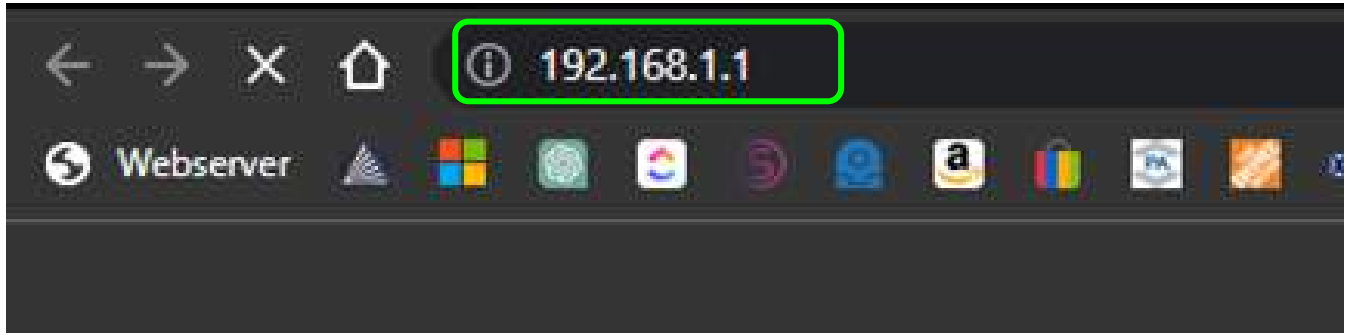
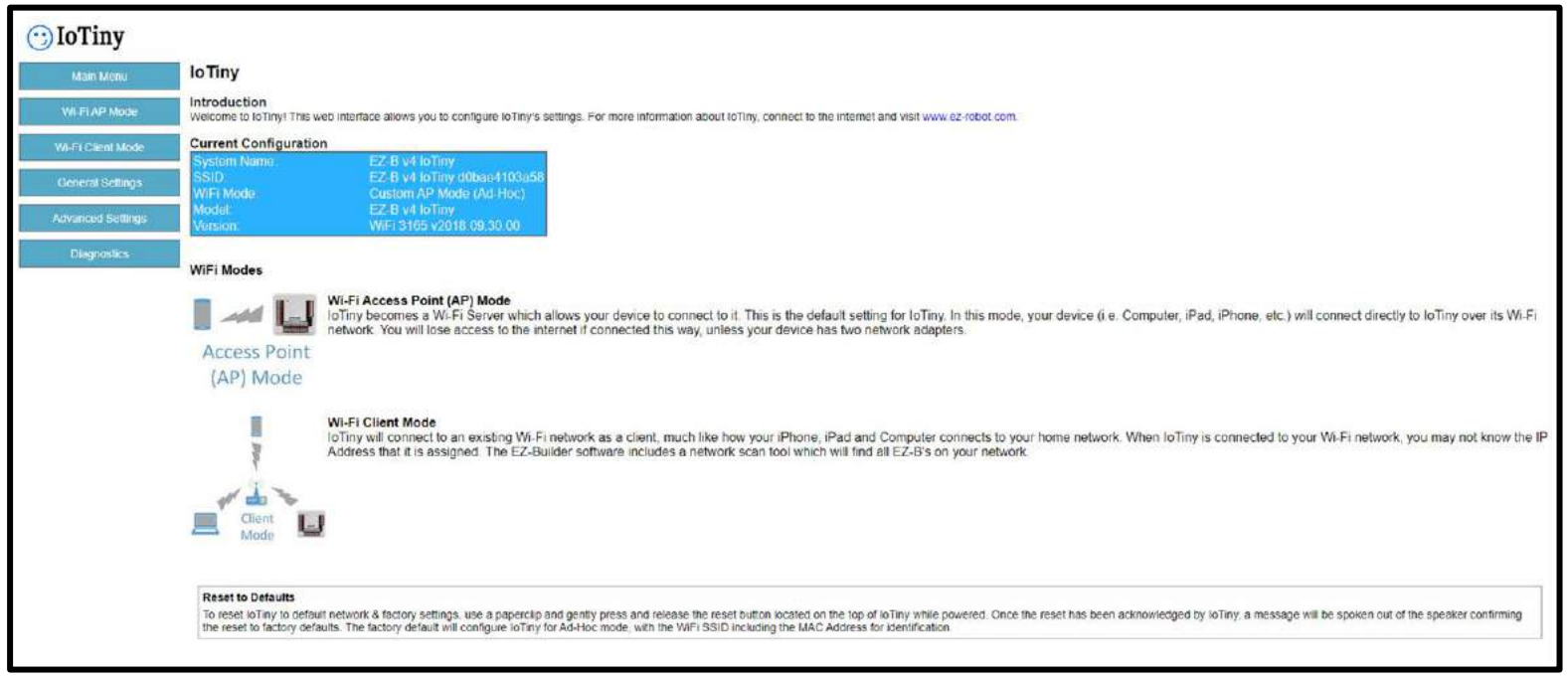

192.168.1.1
Webserver


IoTiny
Main Menu
Wi-Fi AP Mode
Wi-Fi Client Mode
General Settings
Advanced Settings
Diagnostics
IoTiny
Introduction
Welcome to IoTiny! This web interface allows you to configure IoTiny's settings. For more information about IoTiny, connect to the internet and visit www.ez-robot.com.
Current Configuration
System Name: EZ-B v4 IoTiny
SSID: EZ-B v4 IoTiny d0bae4103a58
WiFi Mode: Custom AP Mode (Ad-Hoc)
Model: EZ-B v4 IoTiny
Version: WiFi 3165 v2018.09.30.00
WiFi Modes
Wi-Fi Access Point (AP) Mode
IoTiny becomes a Wi-Fi Server which allows your device to connect to it. This is the default setting for IoTiny. In this mode, your device (i.e. Computer, iPad, iPhone, etc.) will connect directly to IoTiny over its Wi-Fi network. You will lose access to the internet if connected this way, unless your device has two network adapters.
Access Point (AP) Mode
Wi-Fi Client Mode
IoTiny will connect to an existing Wi-Fi network as a client, much like how your iPhone, iPad and Computer connects to your home network. When IoTiny is connected to your Wi-Fi network, you may not know the IP Address that it is assigned. The EZ-Builder software includes a network scan tool which will find all EZ-B's on your network.
Client Mode
Reset to Defaults
To reset IoTiny to default network & factory settings, use a paperclip and gently press and release the reset button located on the top of IoTiny while powered. Once the reset has been acknowledged by IoTiny, a message will be spoken out of the speaker confirming the reset to factory defaults. The factory default will configure IoTiny for Ad-Hoc mode, with the WiFi SSID including the MAC Address for identification.

IoTiny

Main Menu

Wi-Fi AP Mode

Wi-Fi Client Mode

General Settings

Advanced Settings

Diagnostics

1

Diagnostics

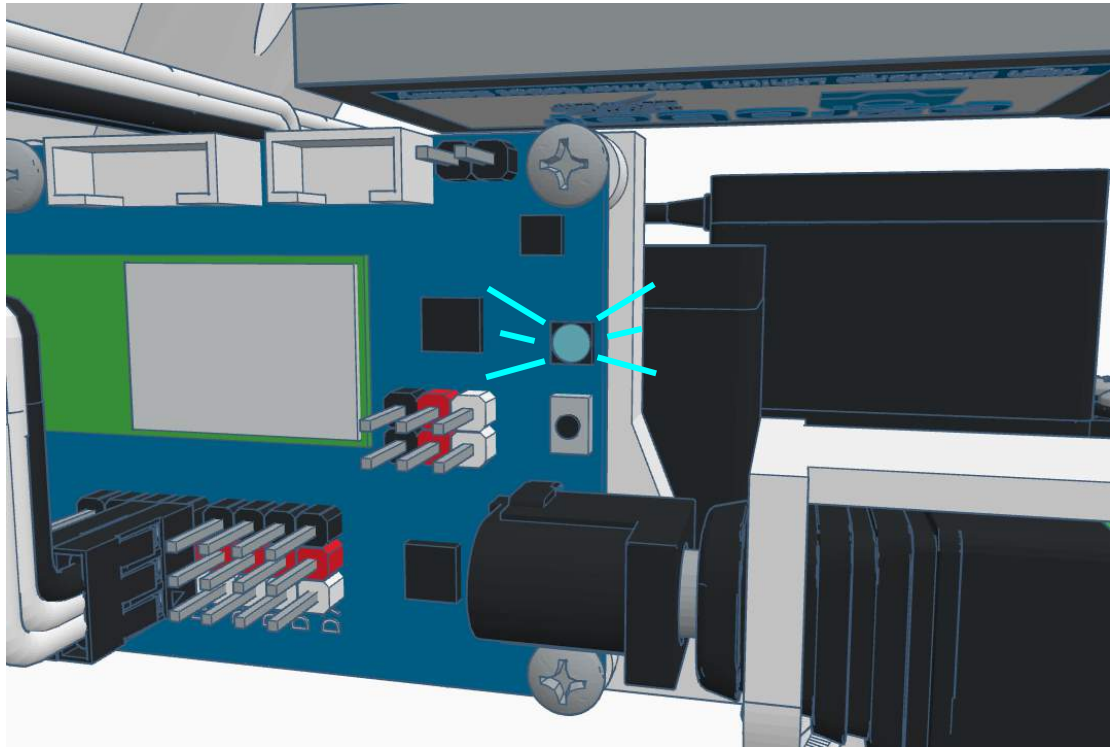
All Servo Ports Release | All Servo Ports to 1 Degree | All Servo Ports to 90 Degrees | All Servo Ports to 180 Degree

Alternating Digital I/O Mode 1 | Alternating Digital I/O Mode 2

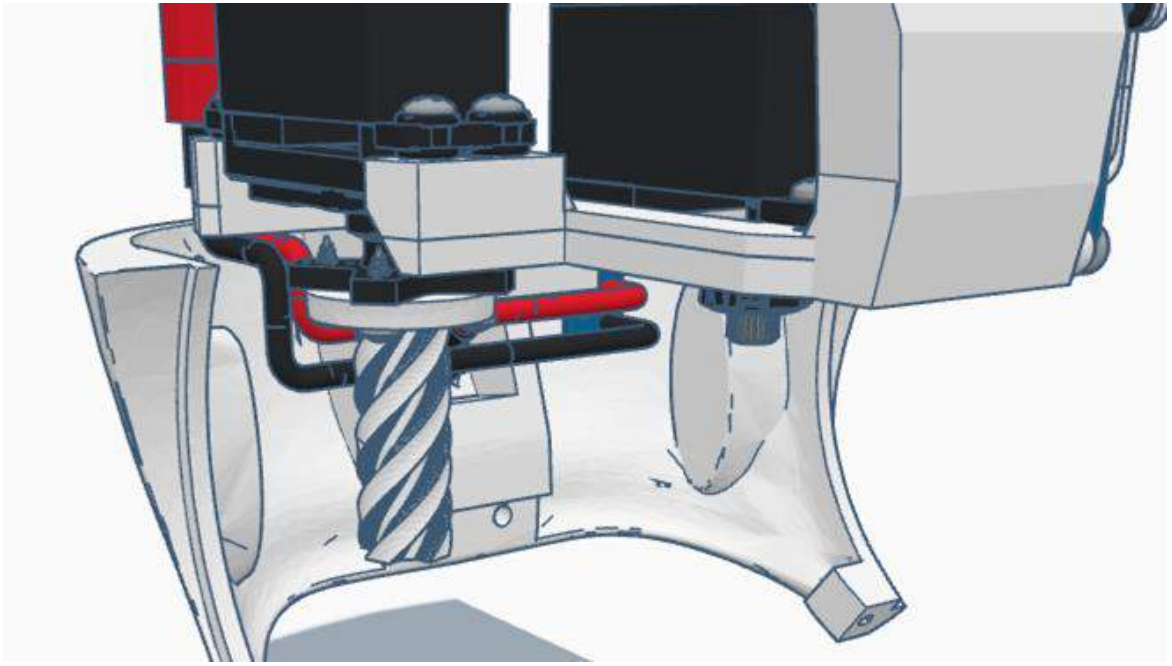
Reboot EZ-B

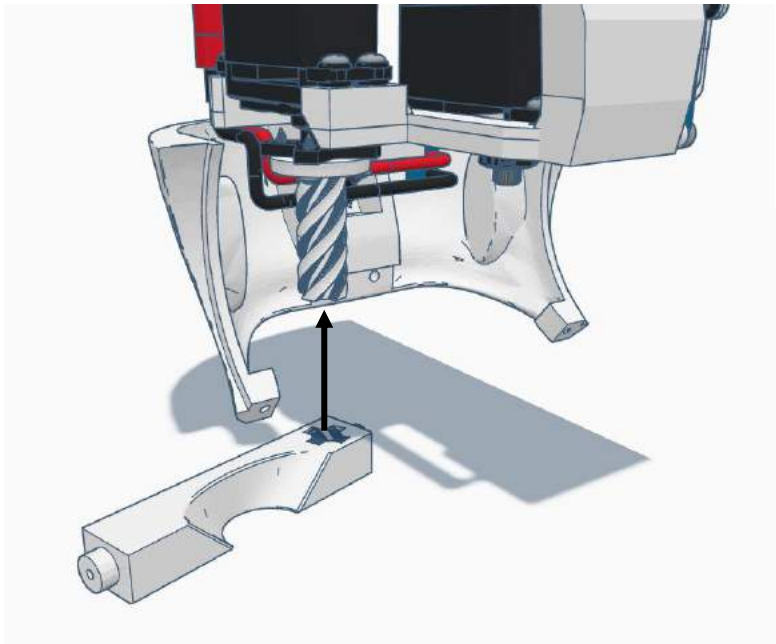
2

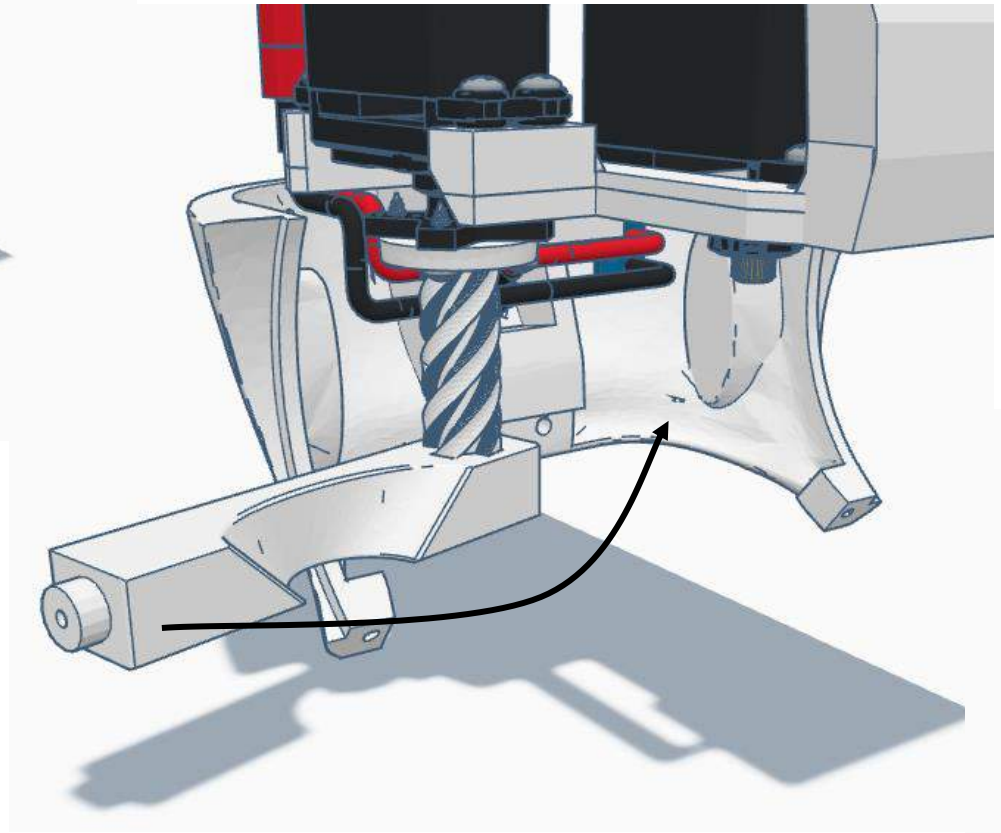
LED WILL CONTINUE TO FLASH BLUE ON IOTINY

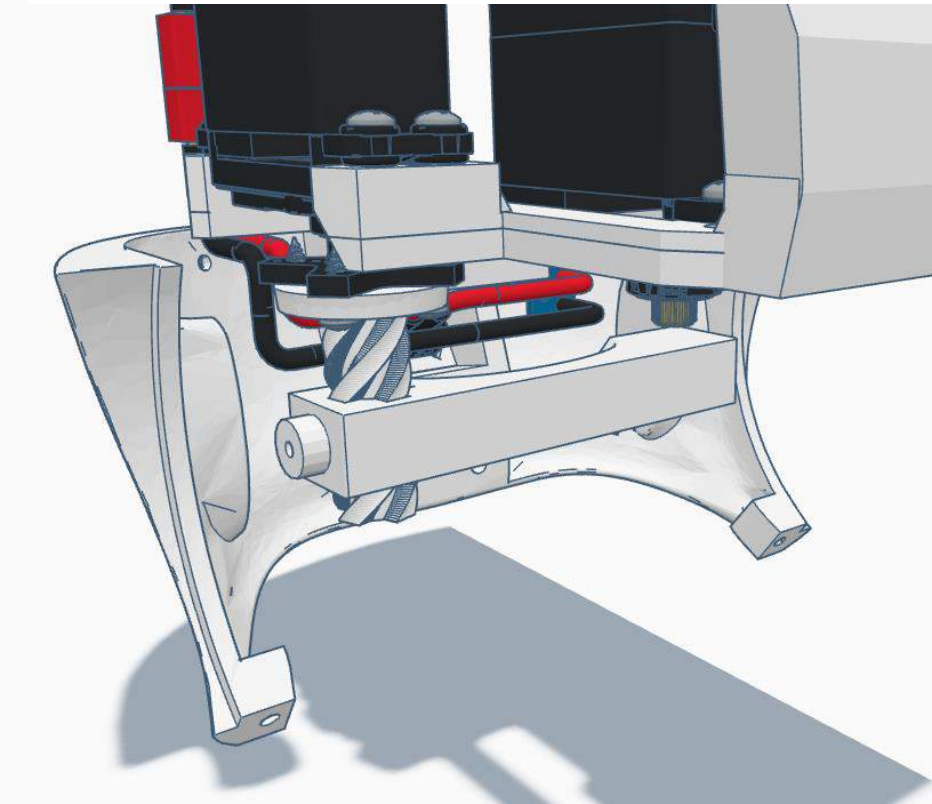


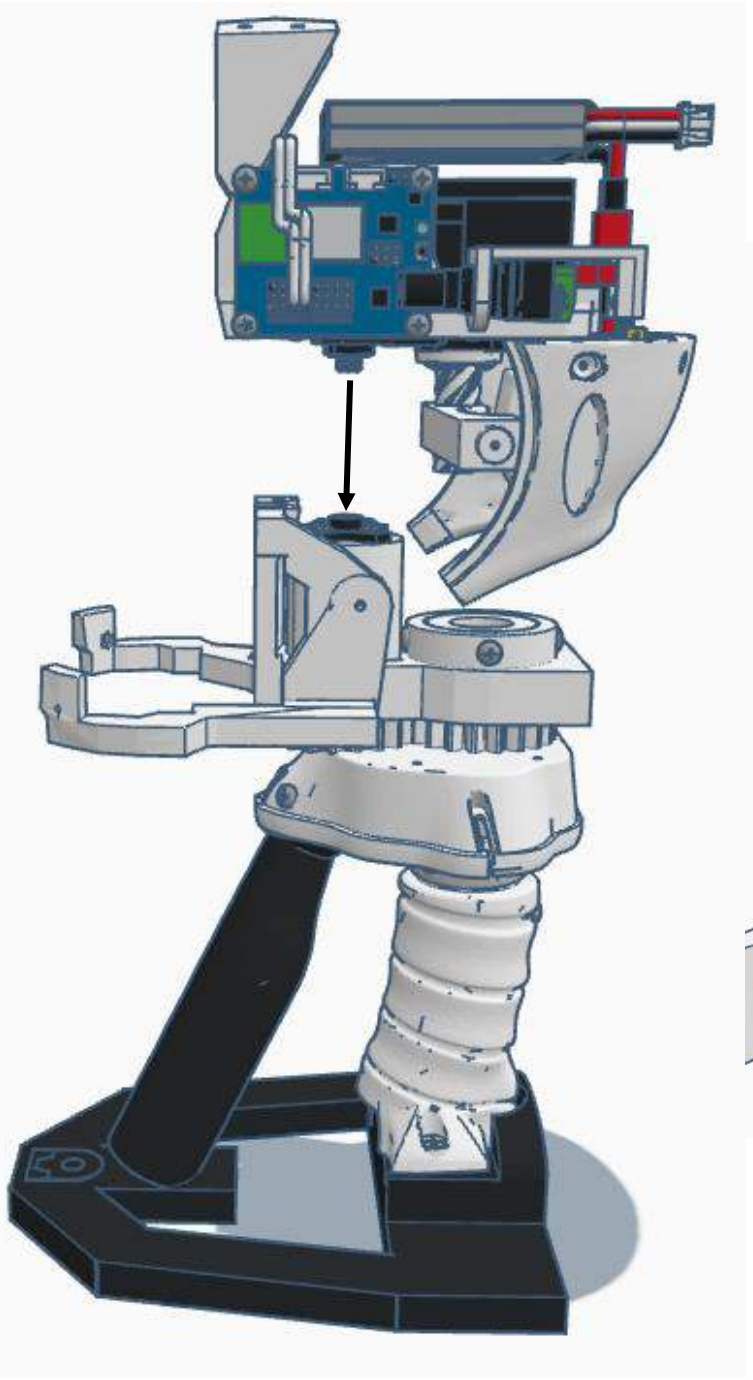
SERVOS WILL MOVE TO 90 DEGREE POSITION

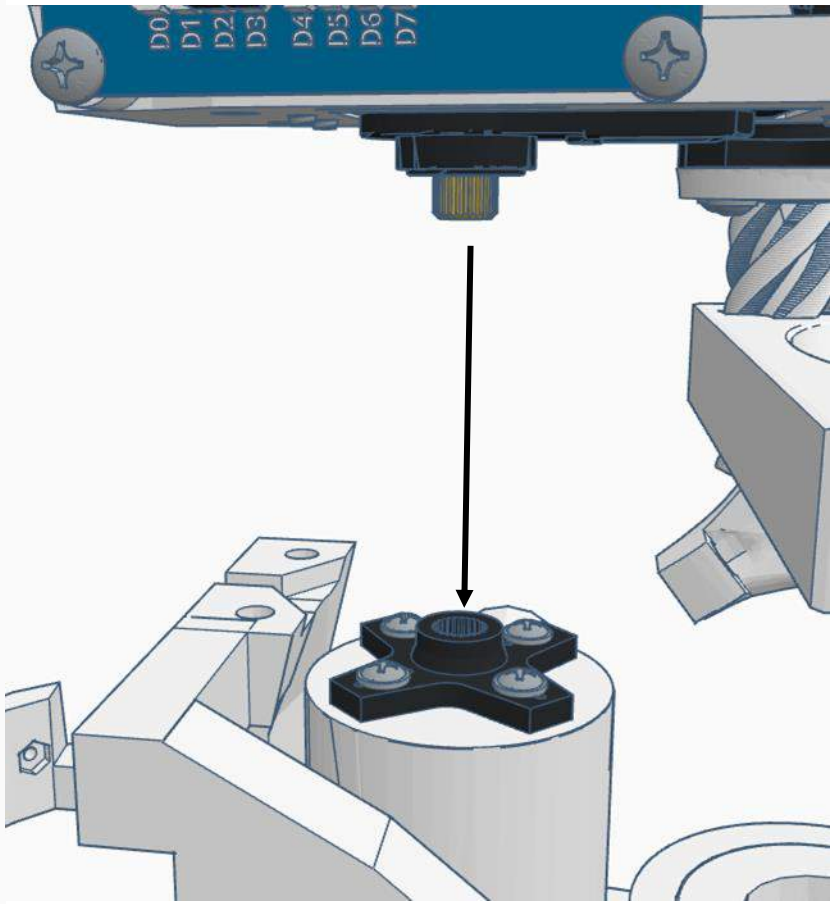








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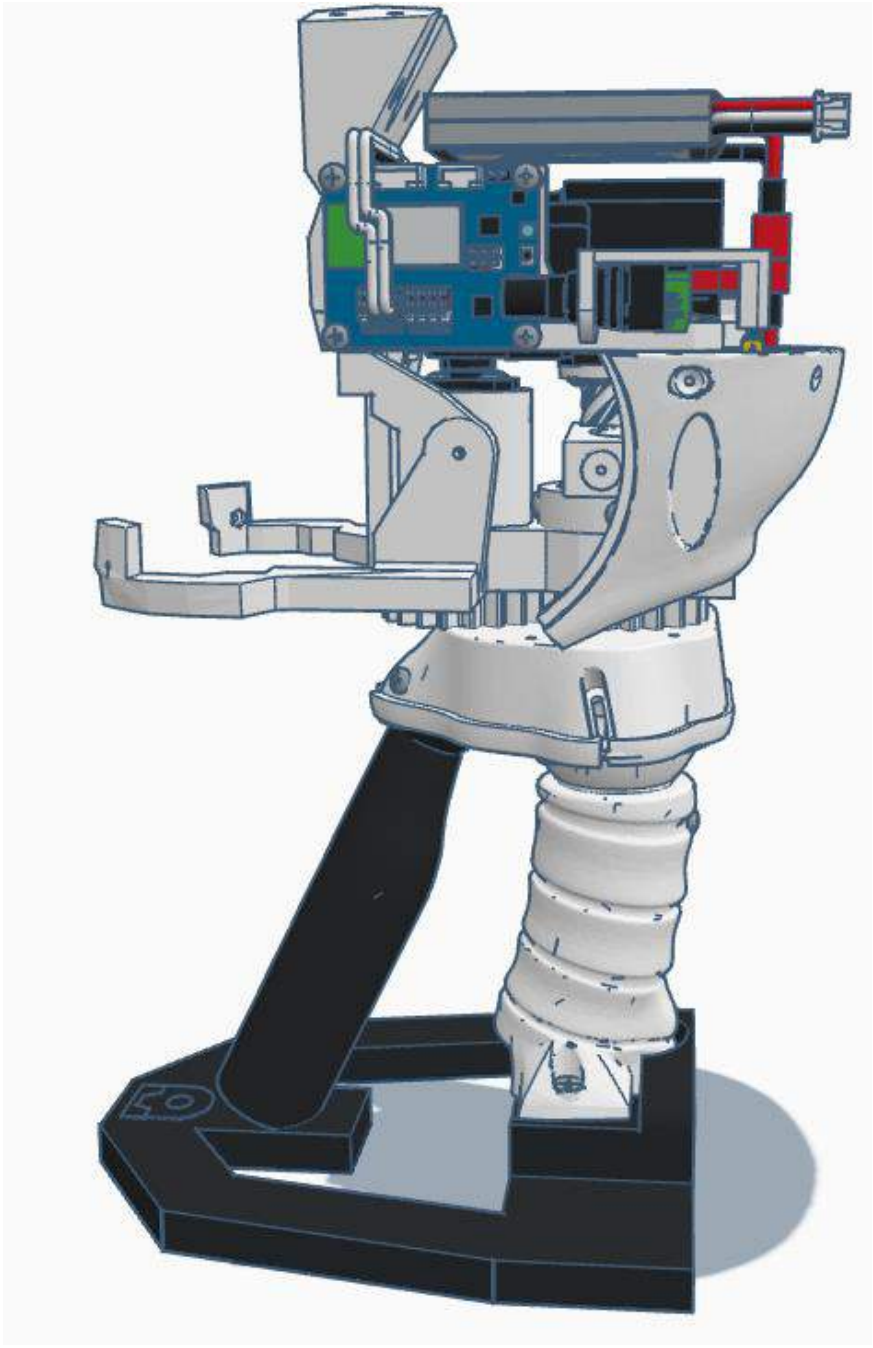

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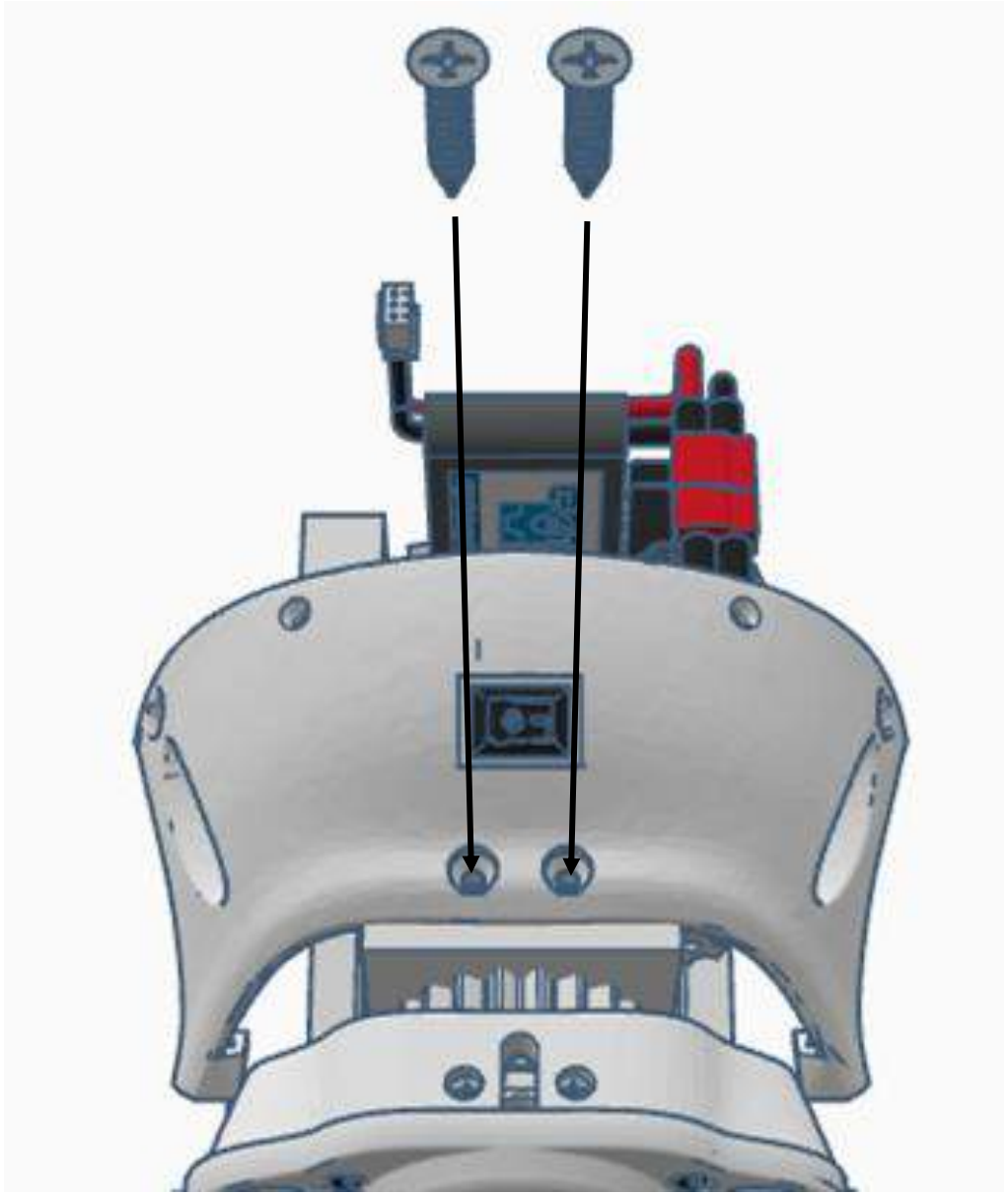

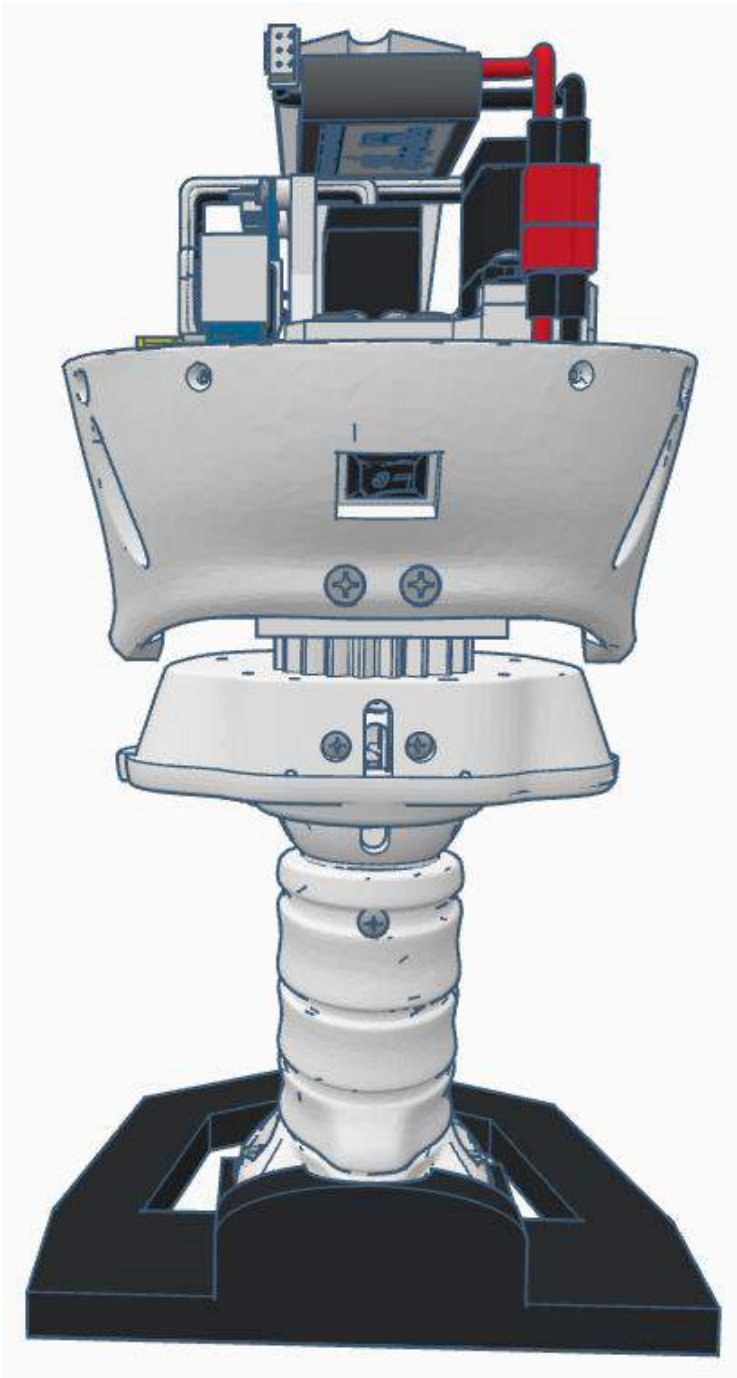

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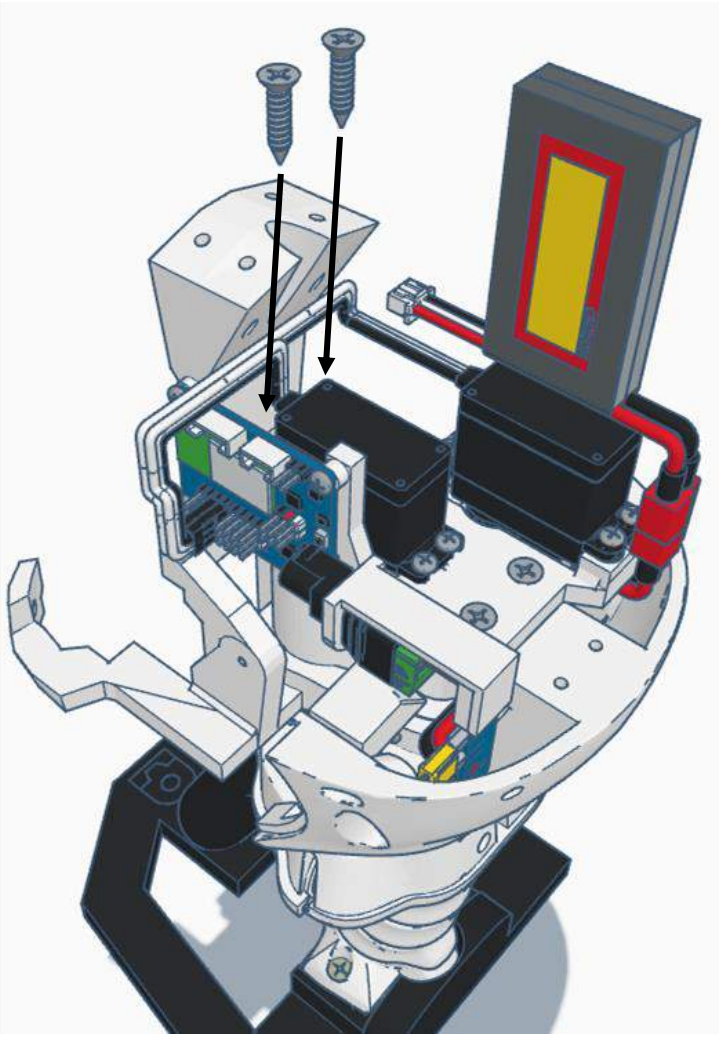

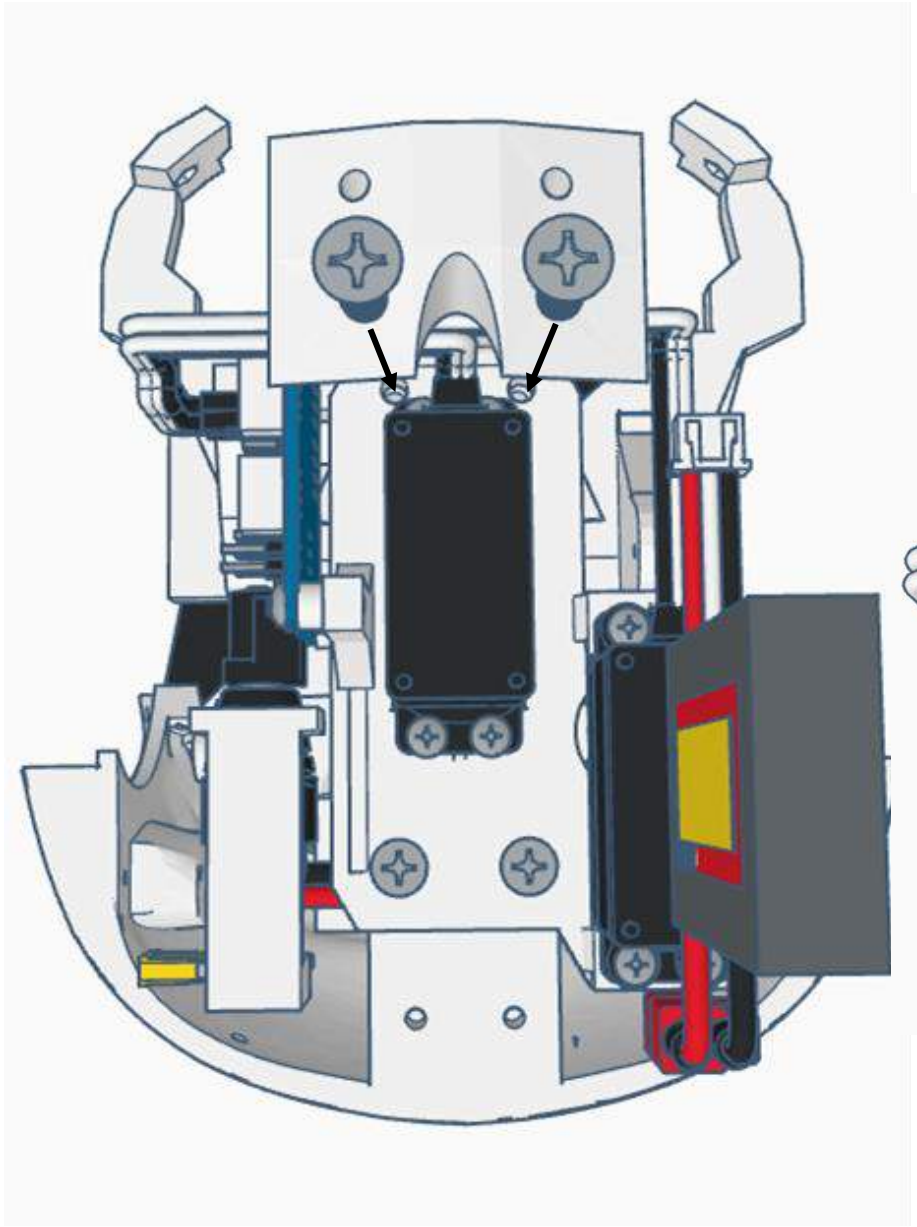

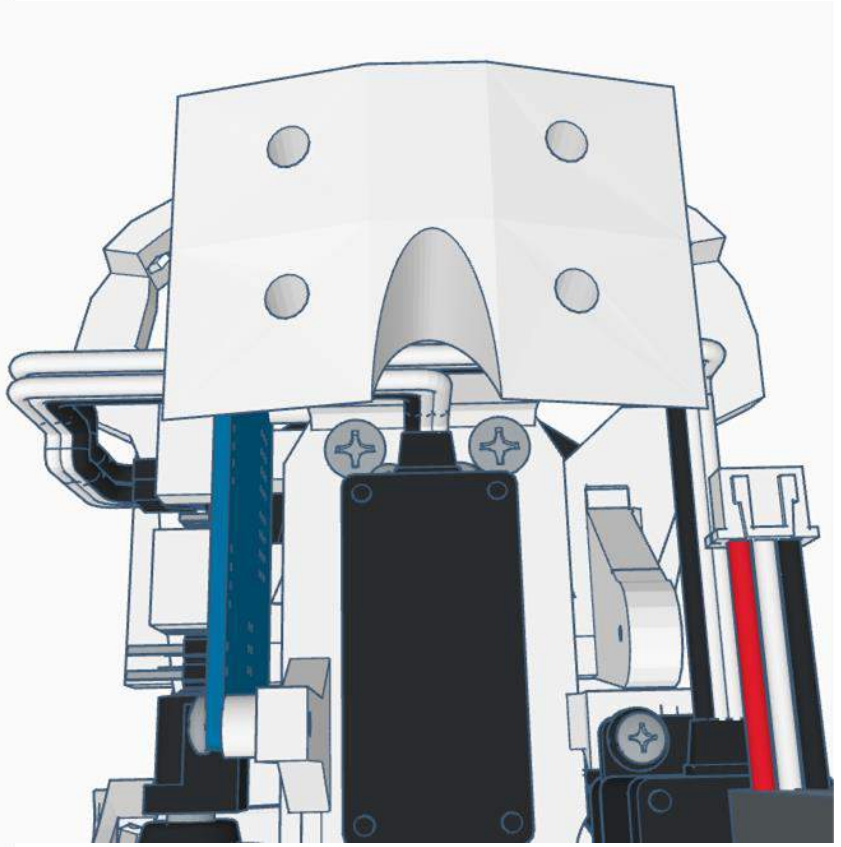

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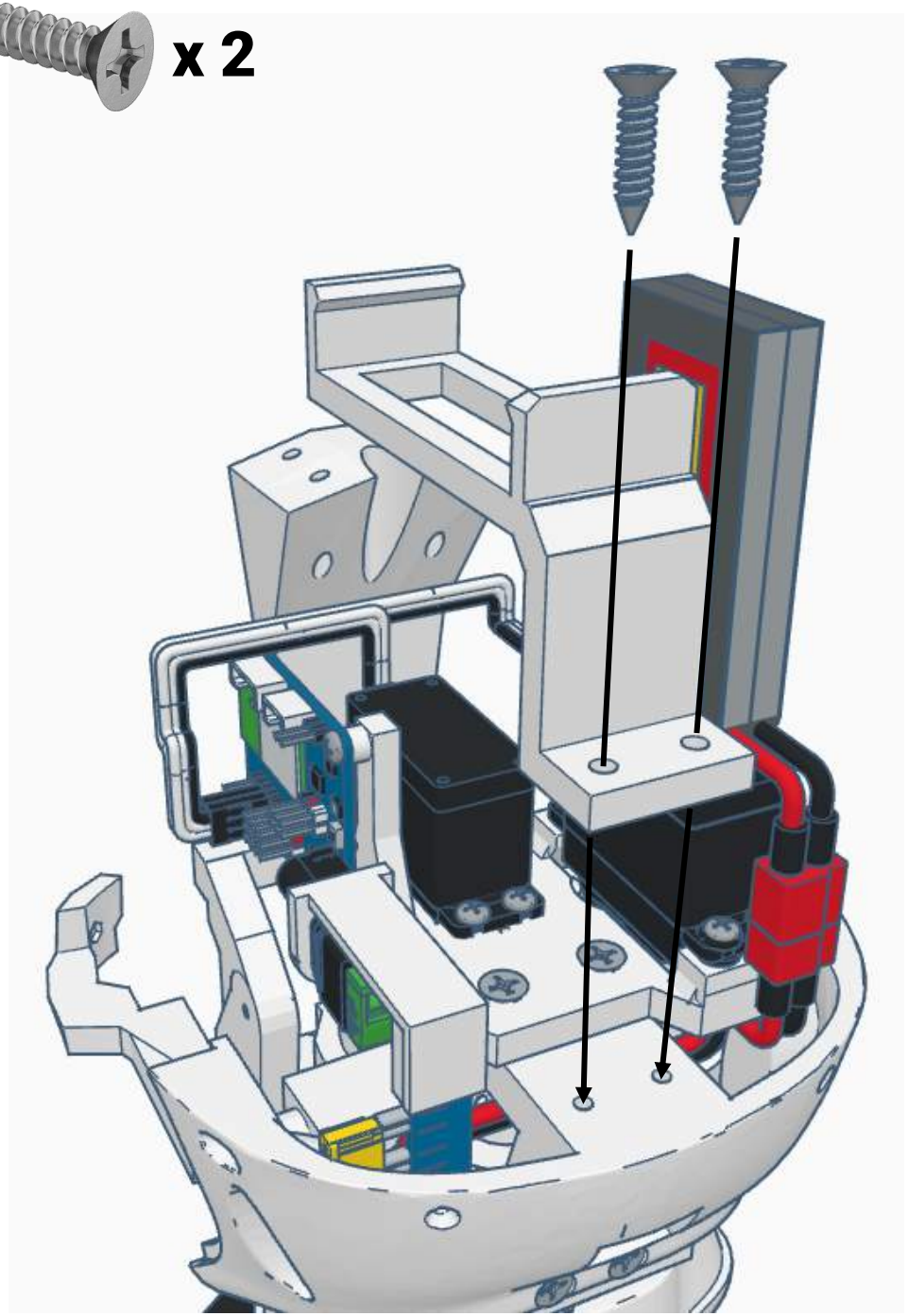

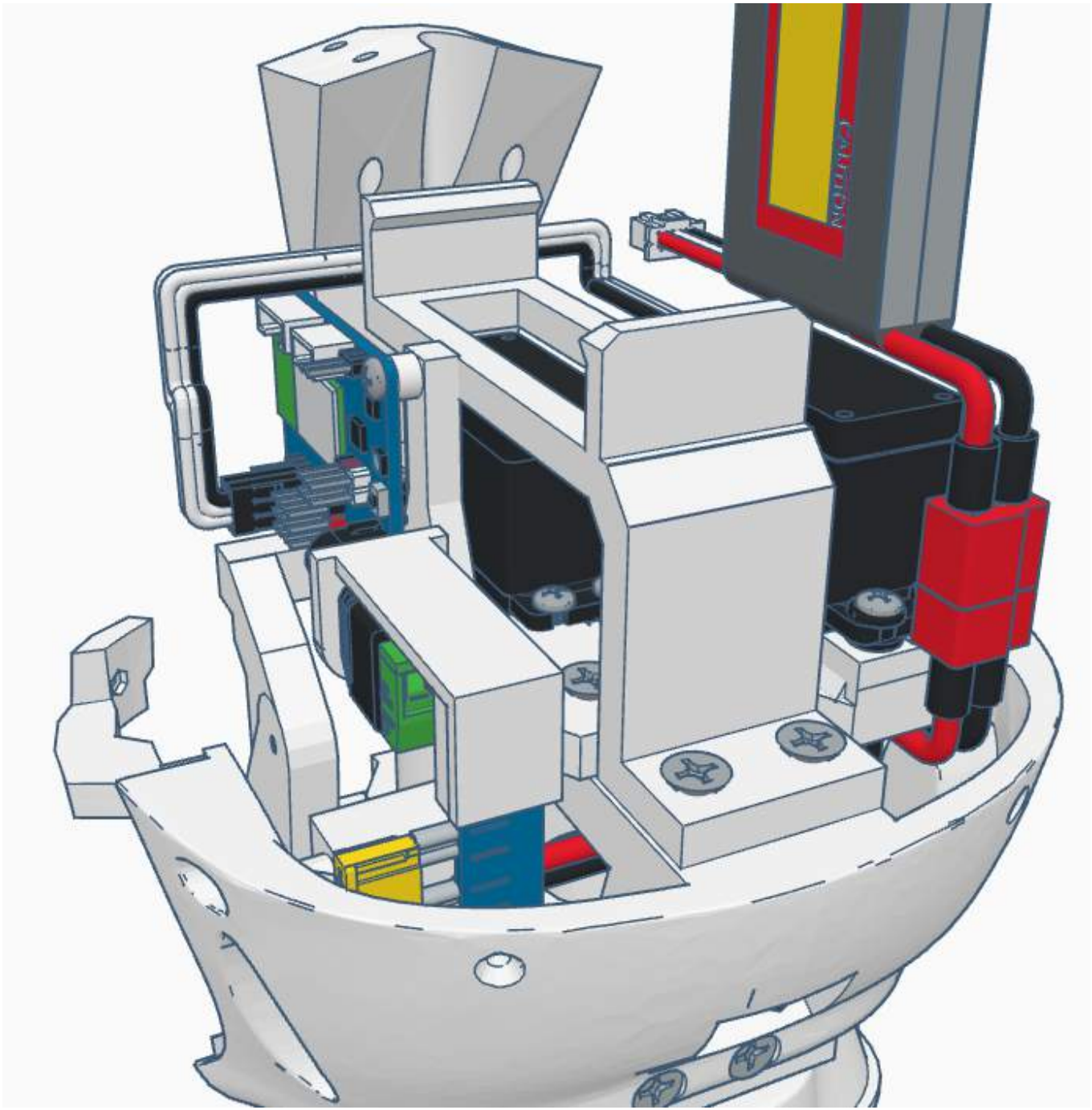

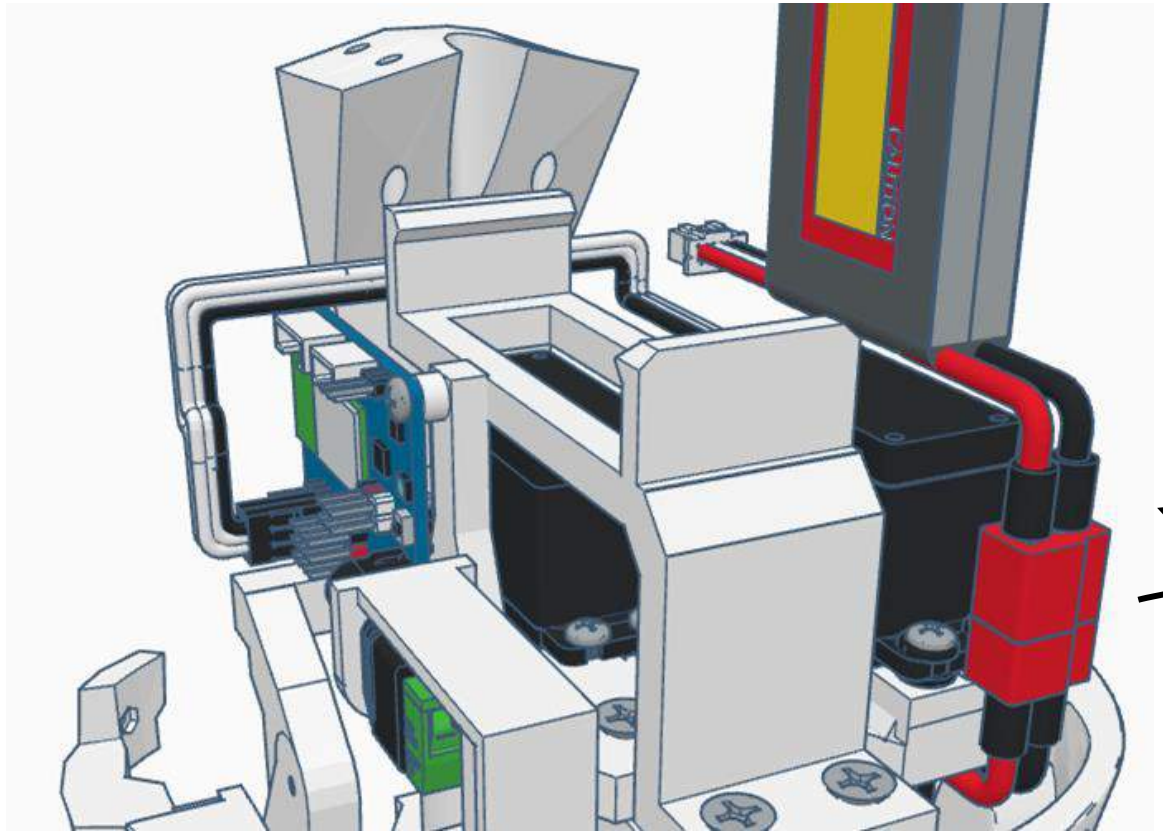

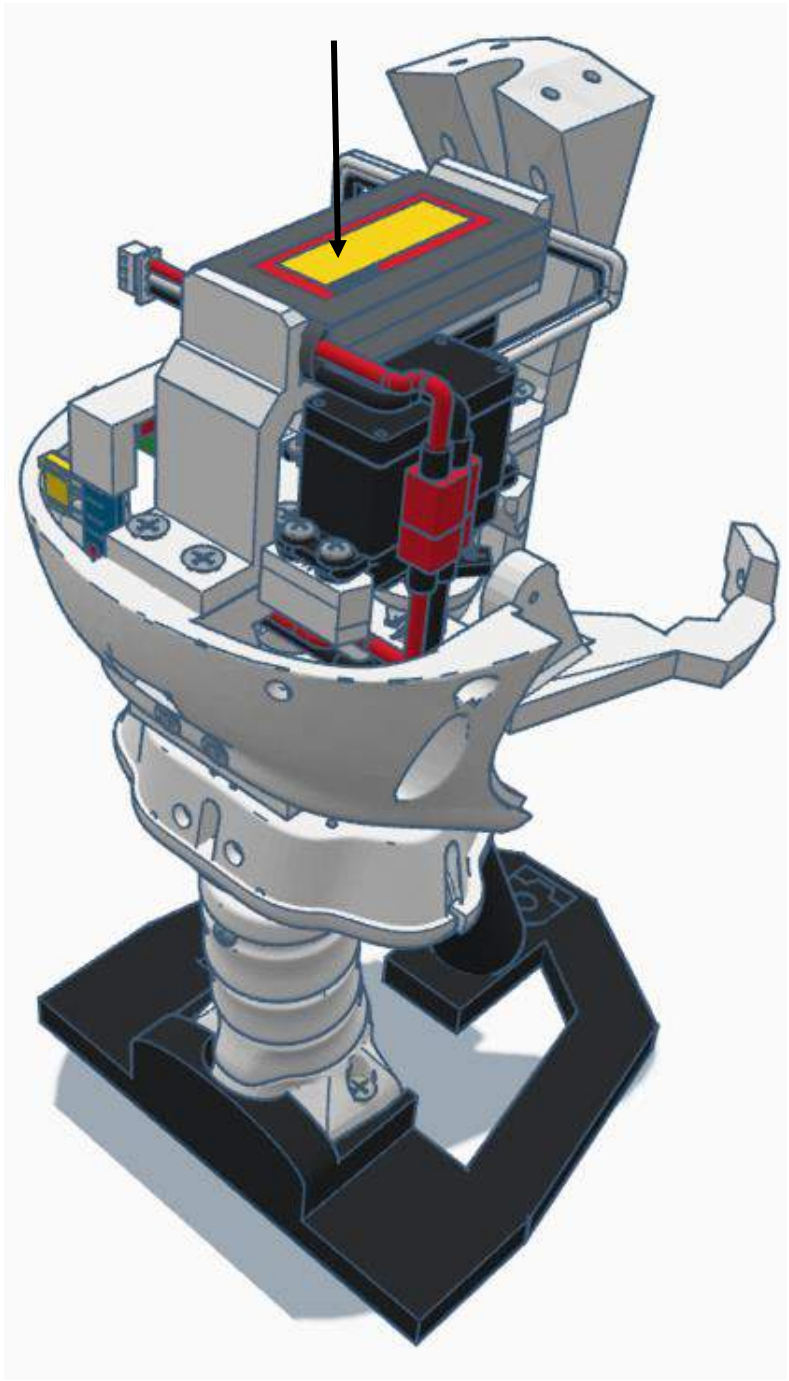

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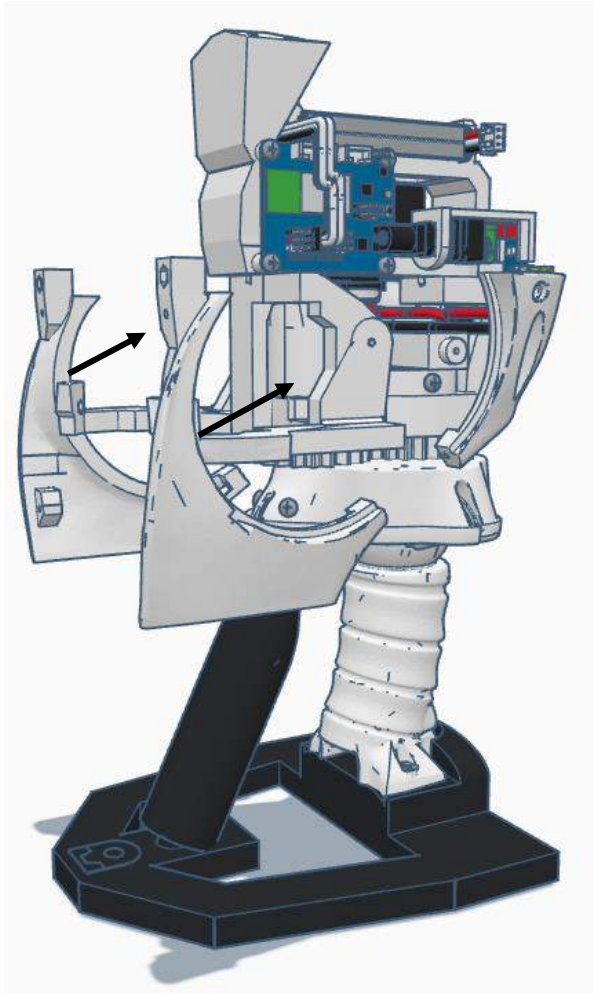

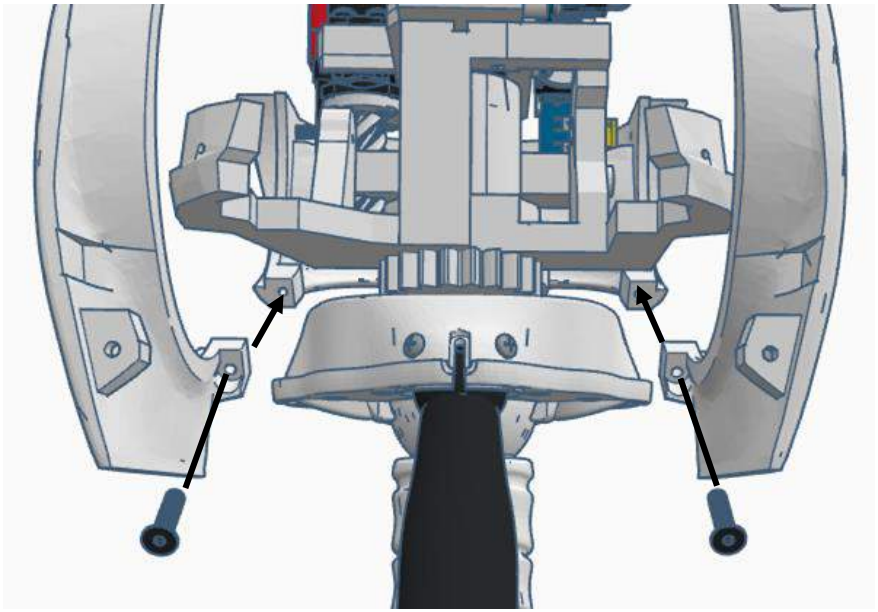

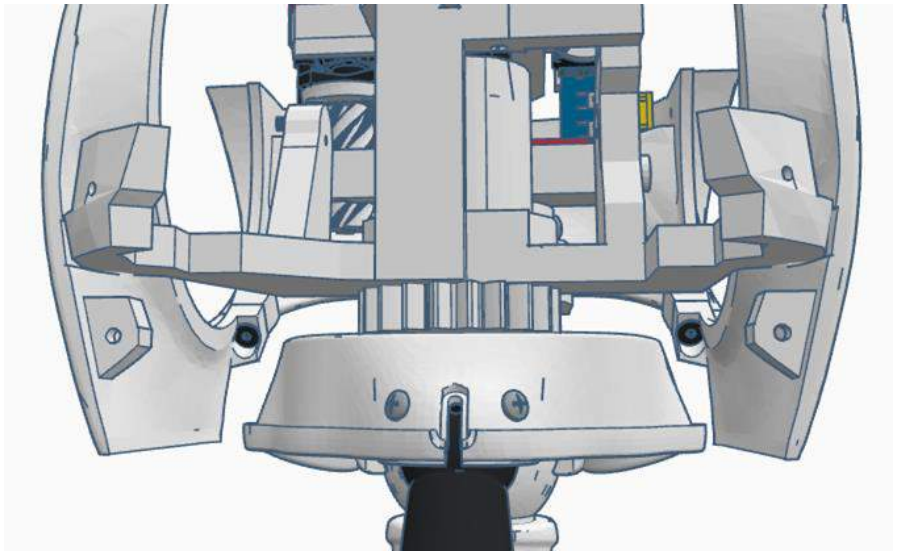

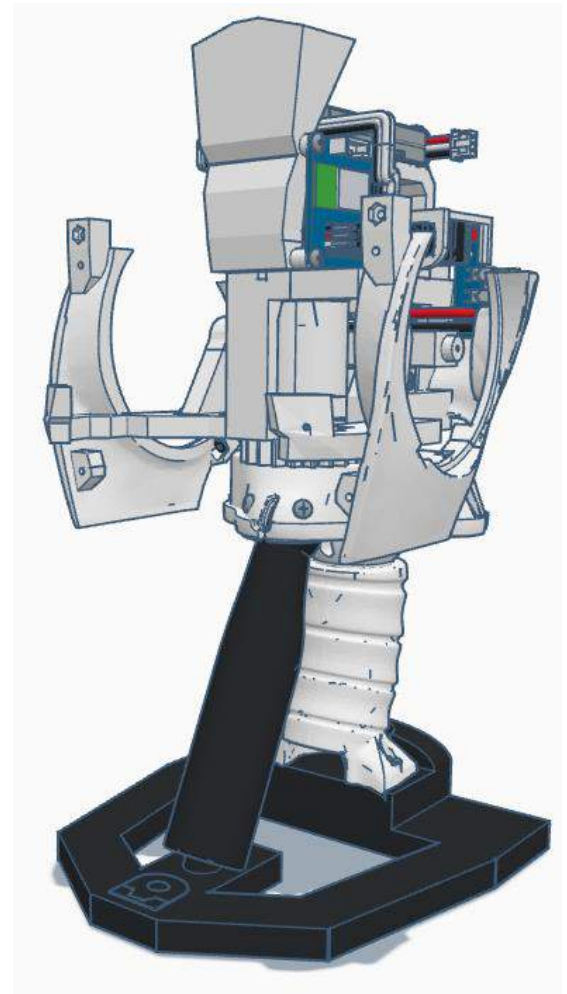

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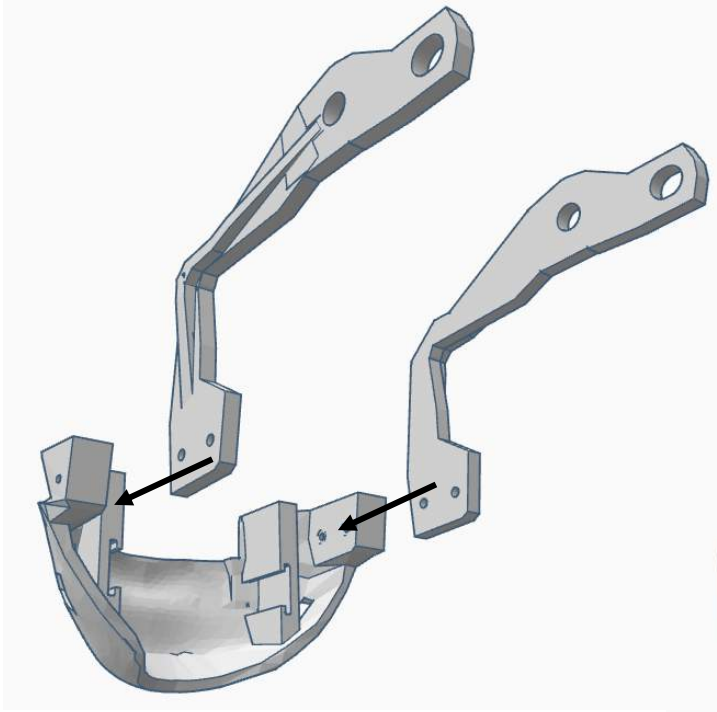
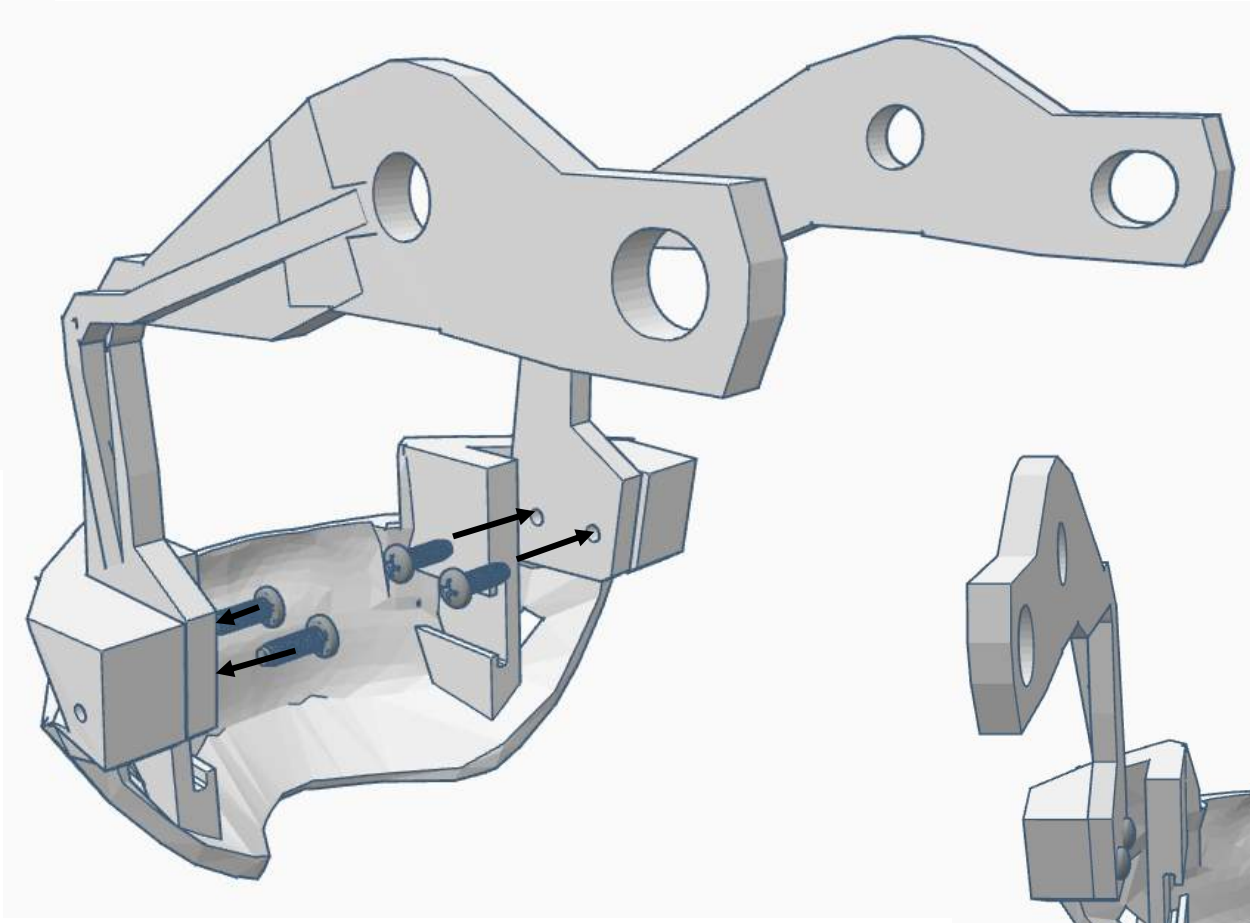
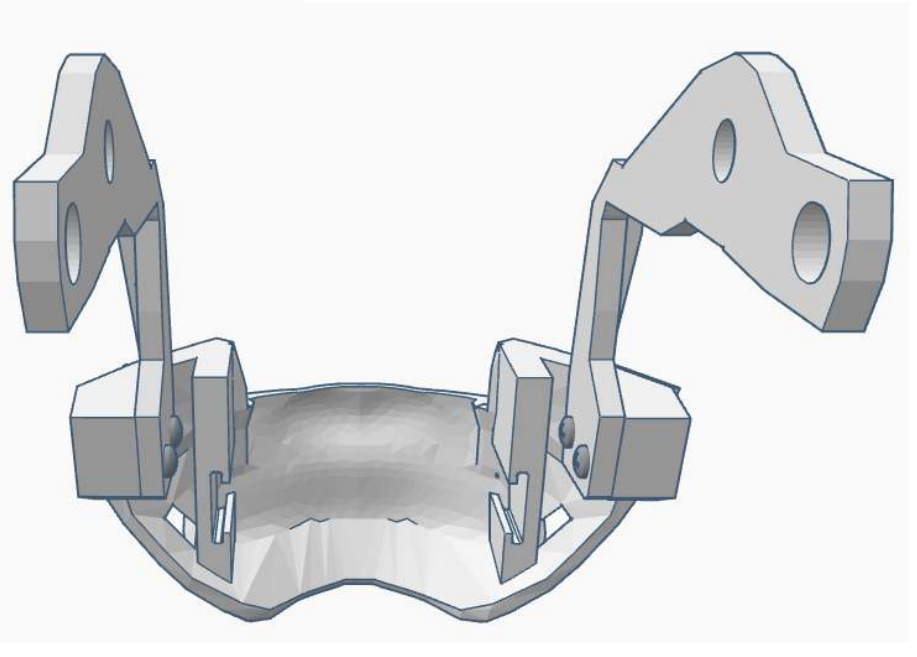
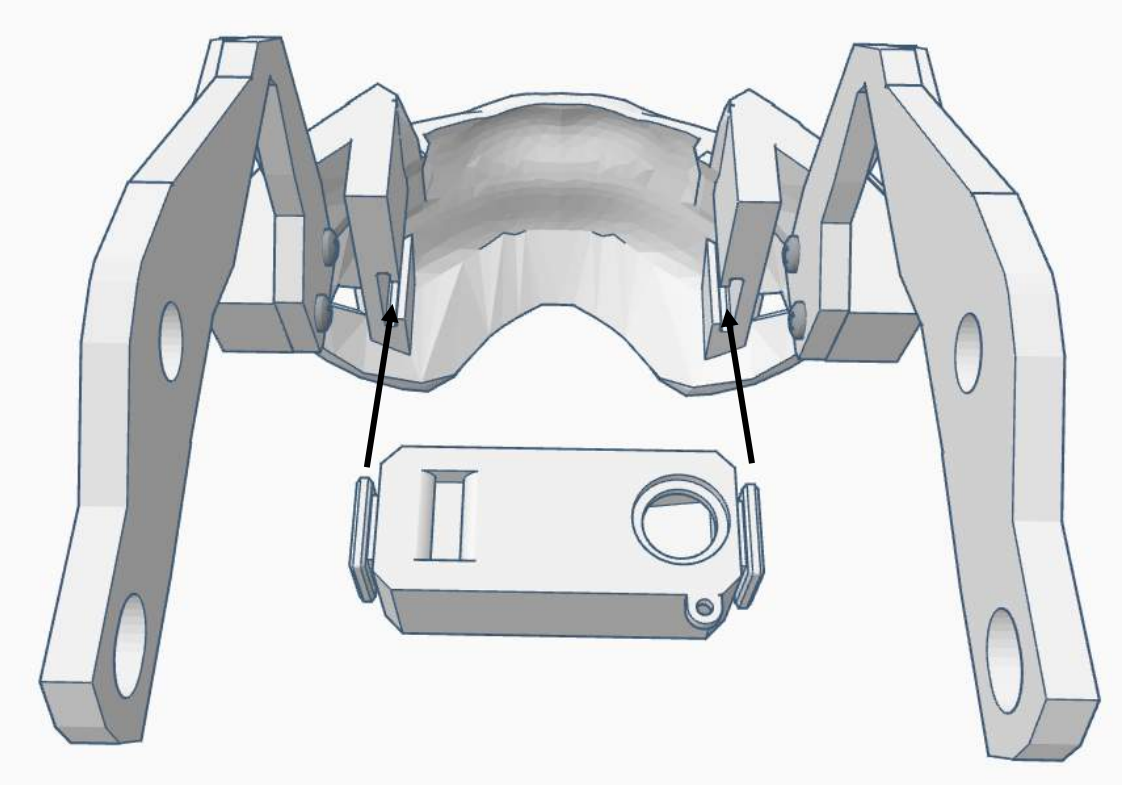
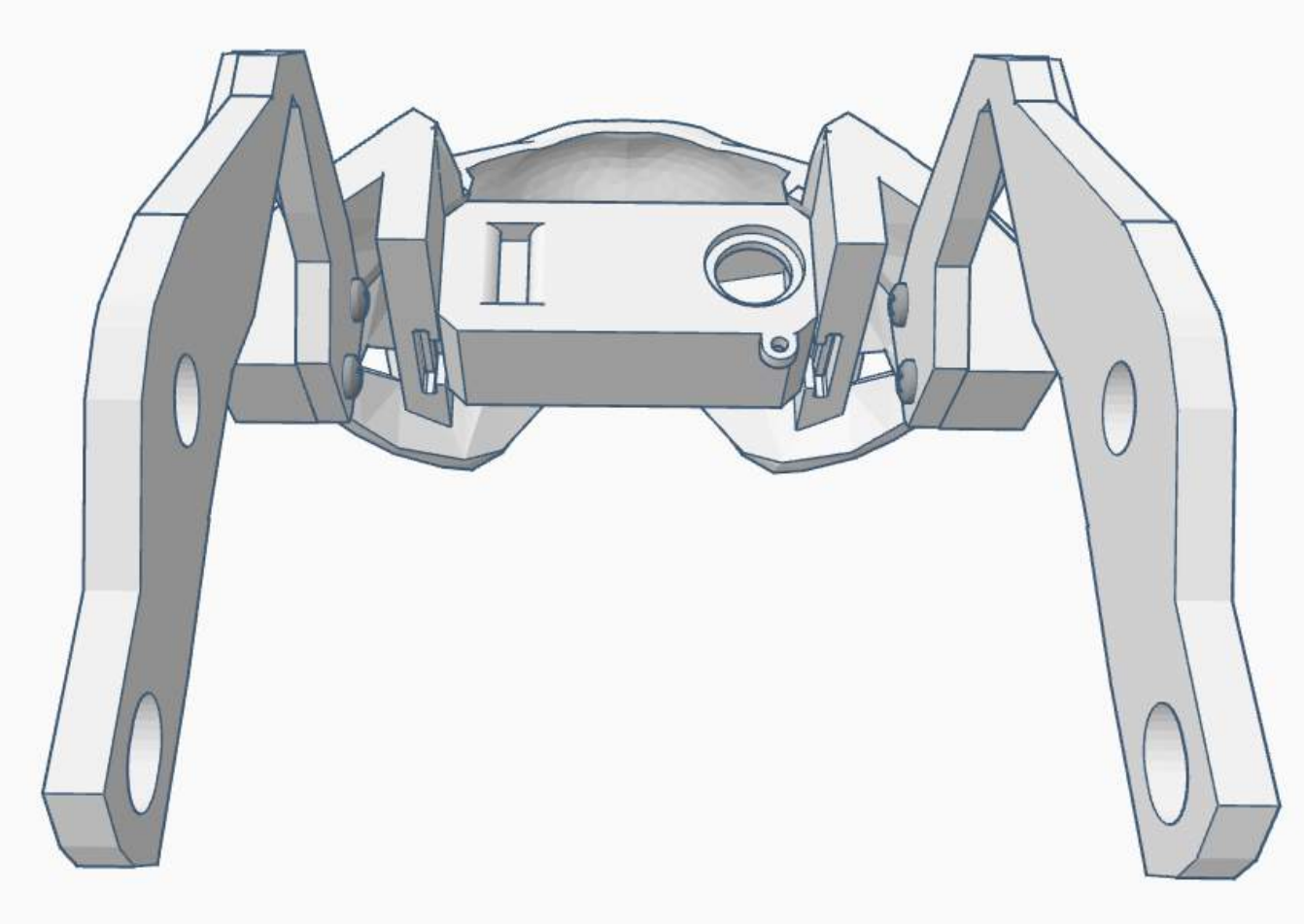
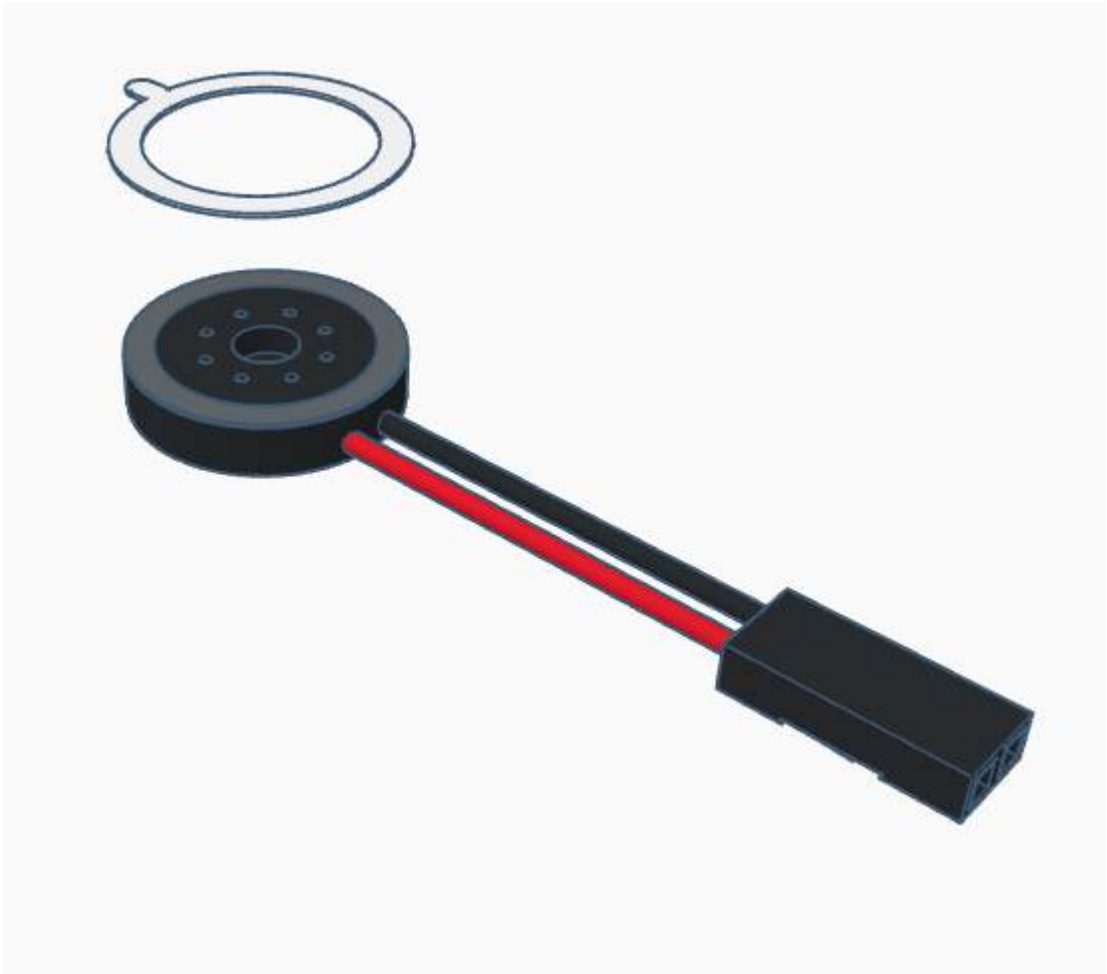


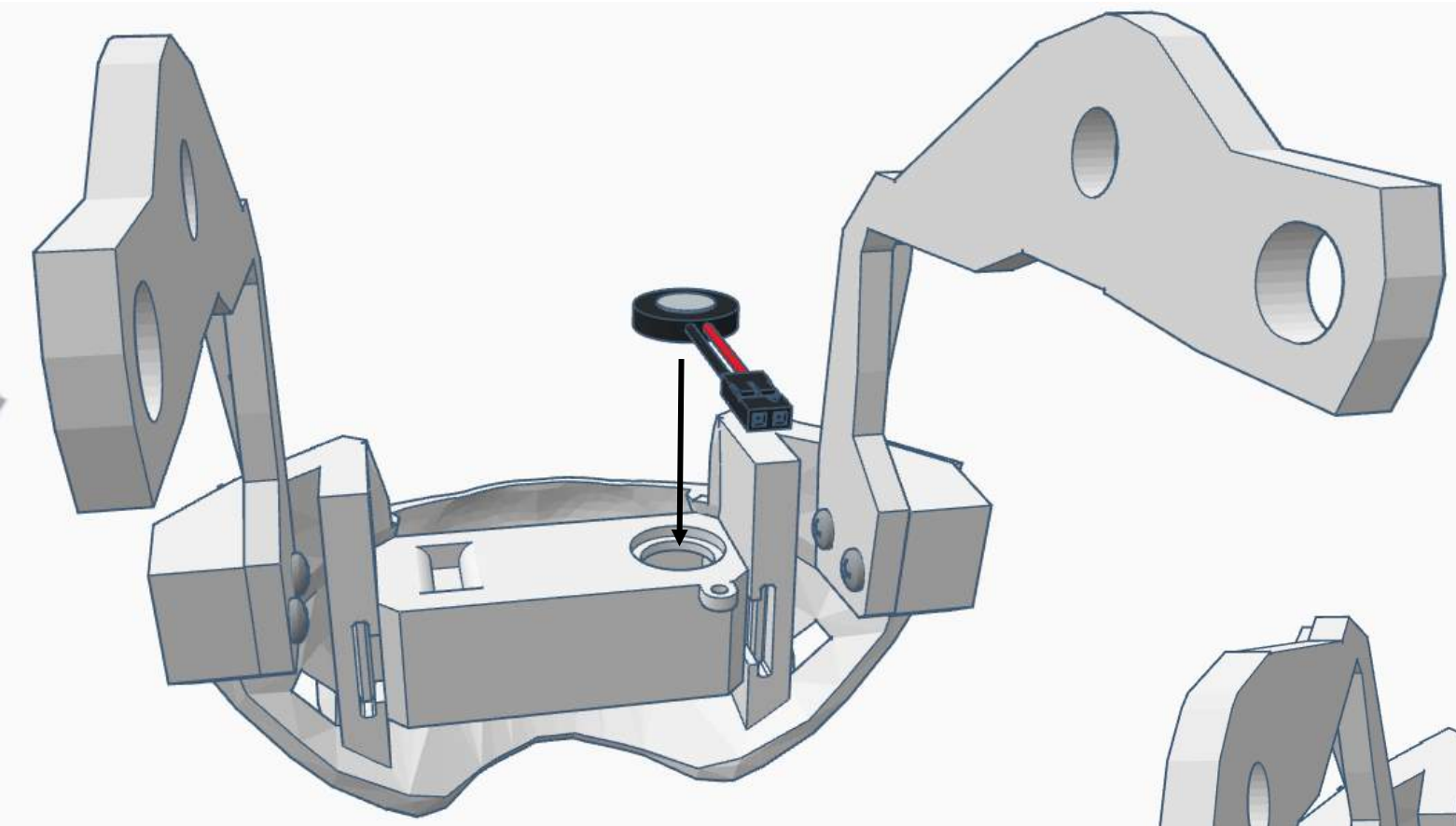


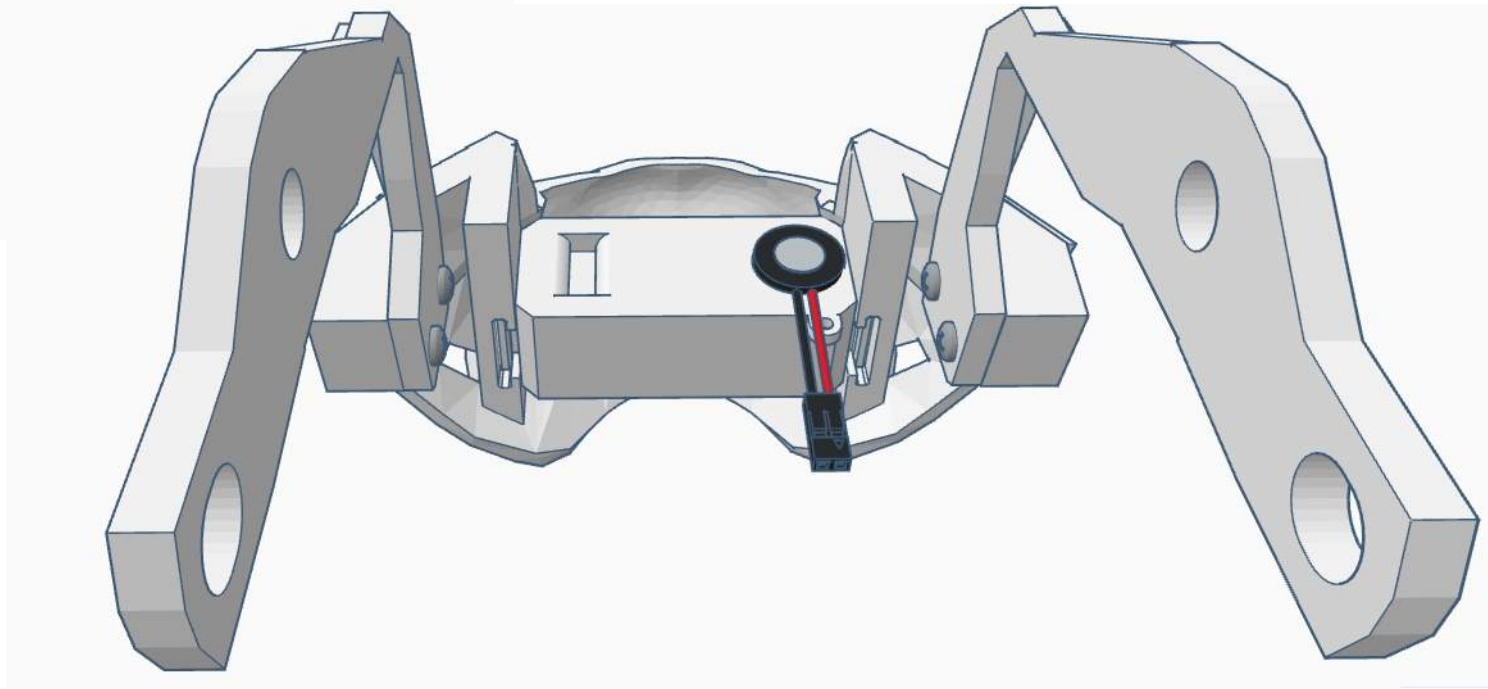


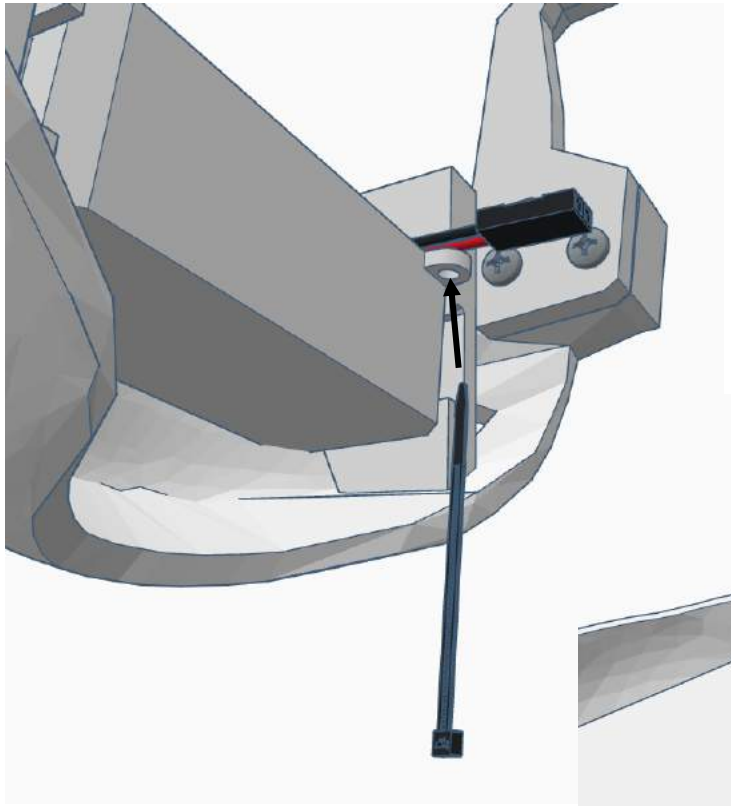


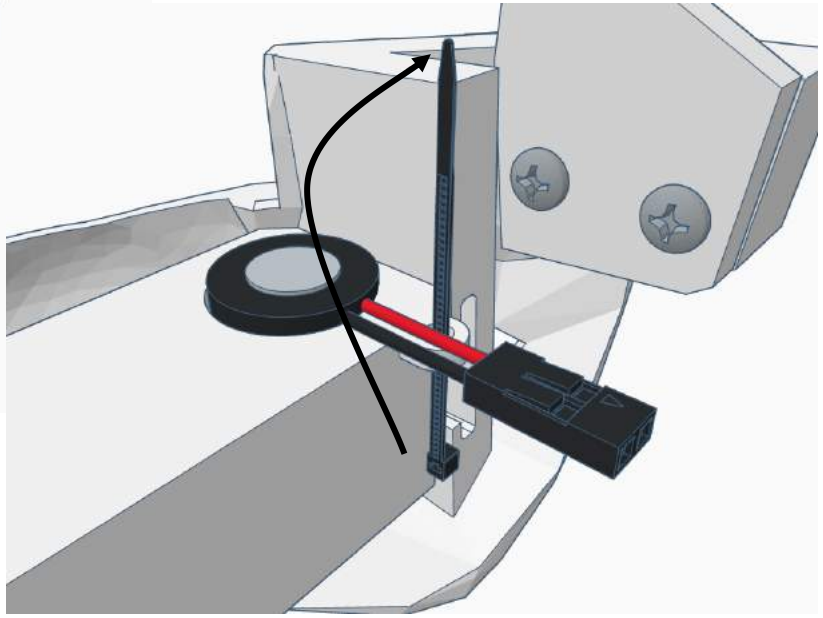


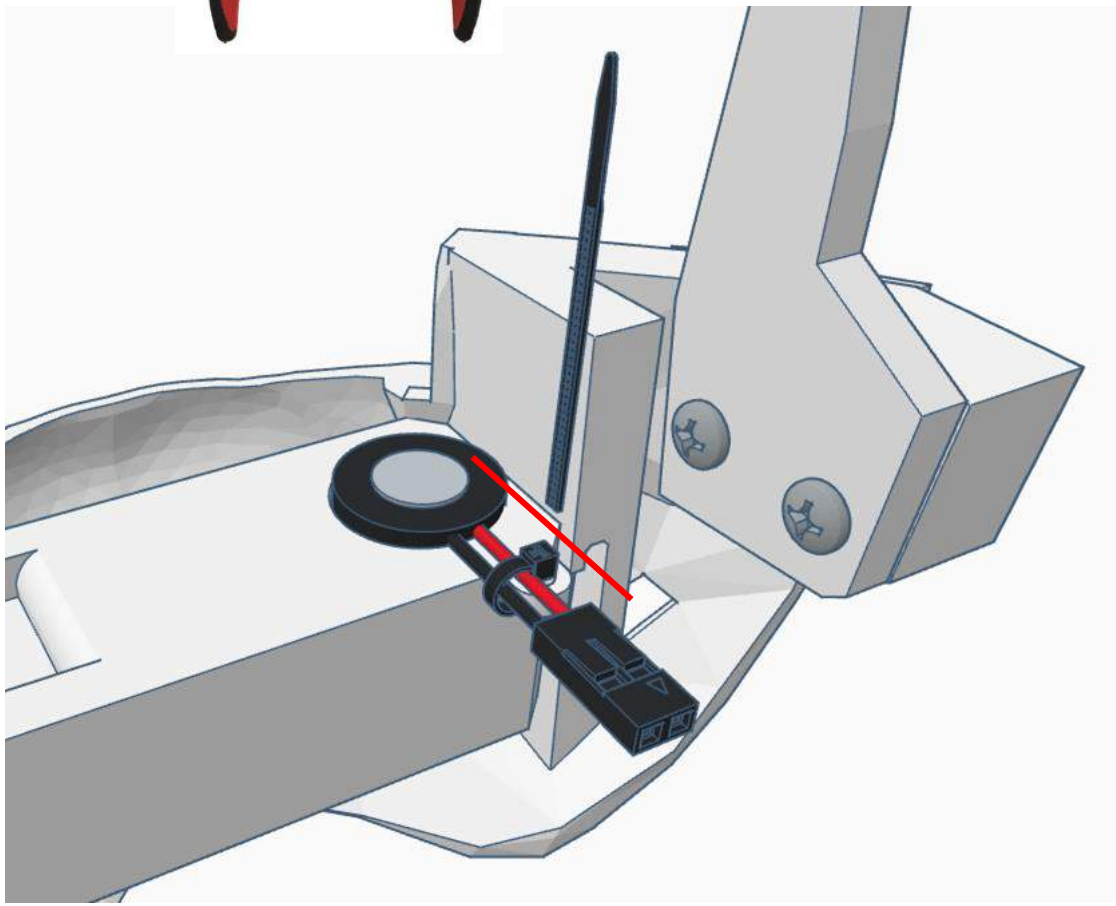


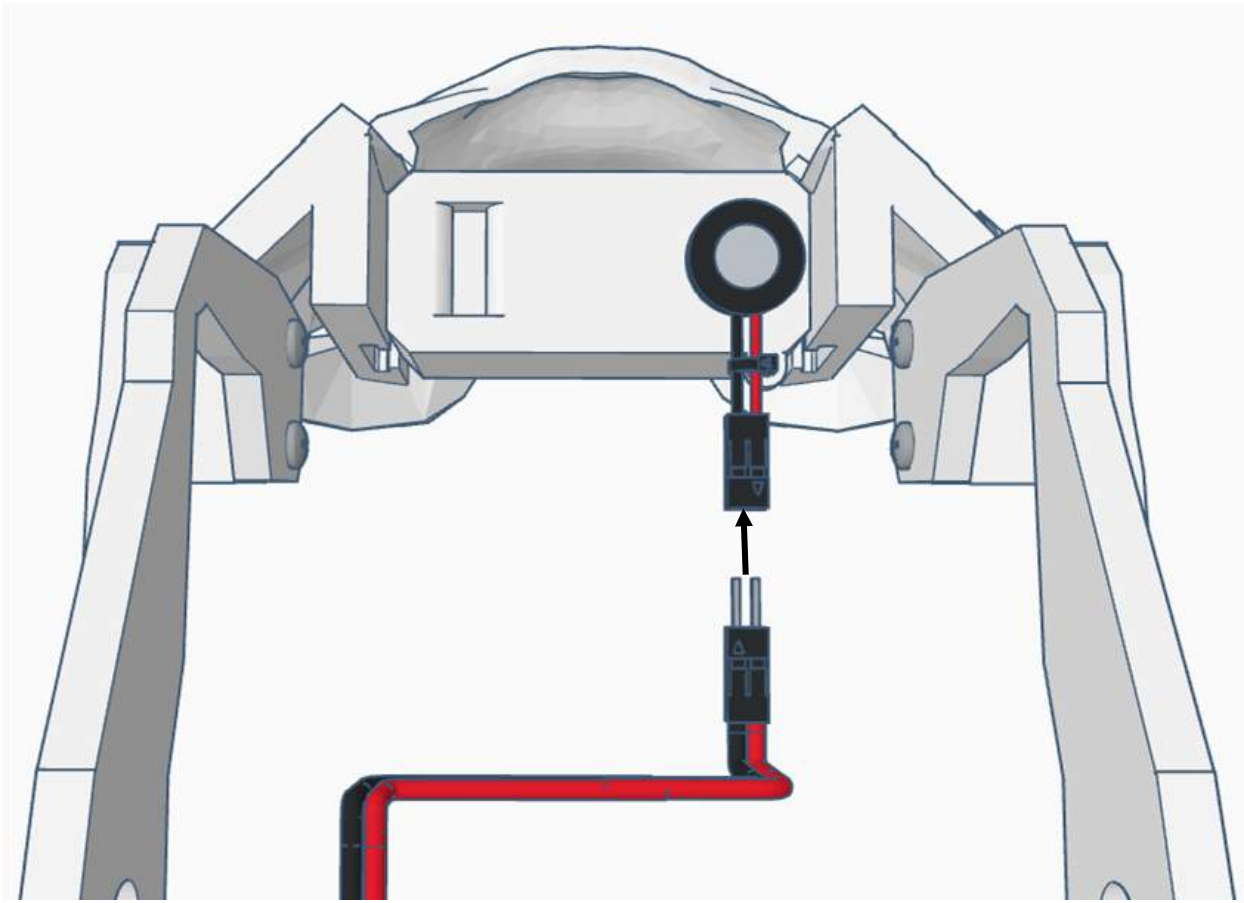


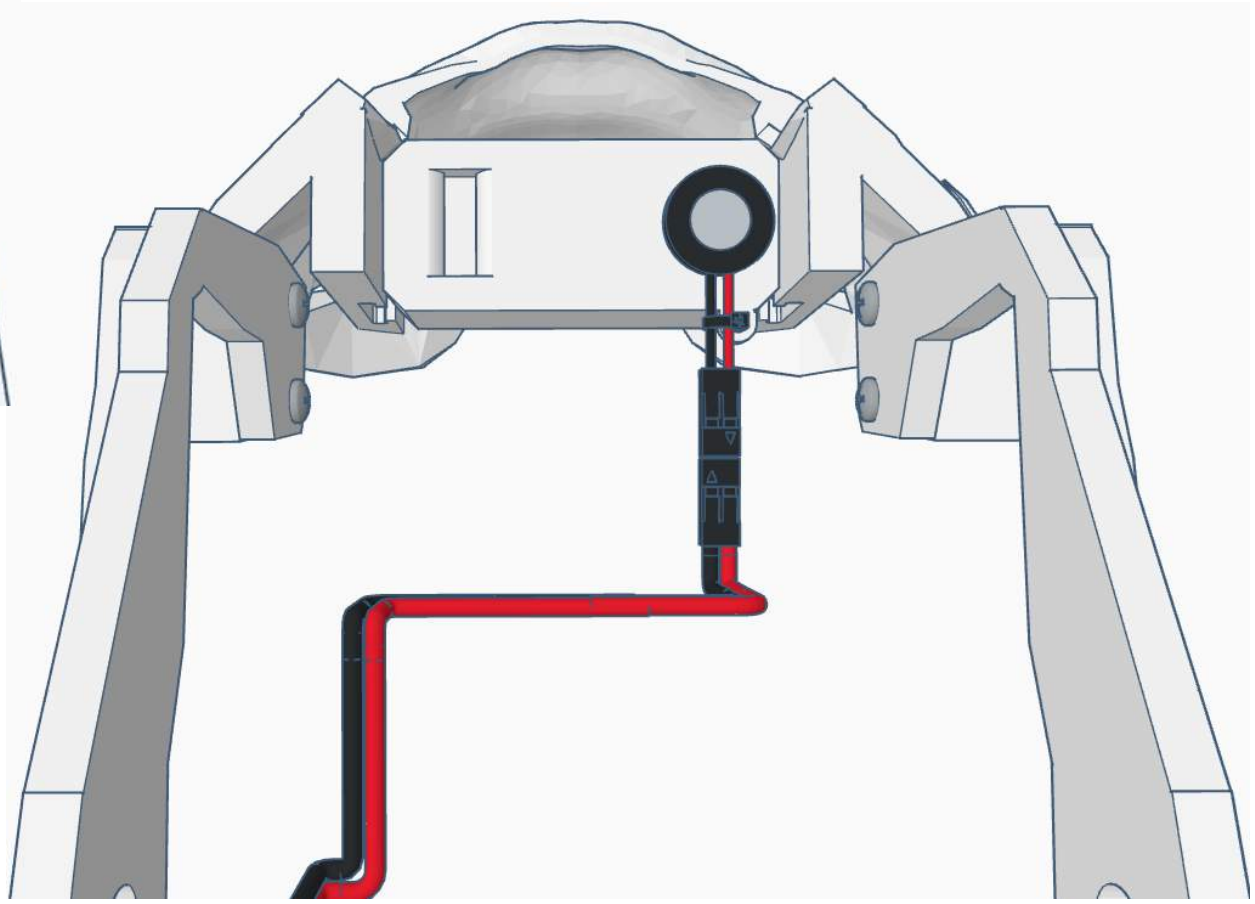


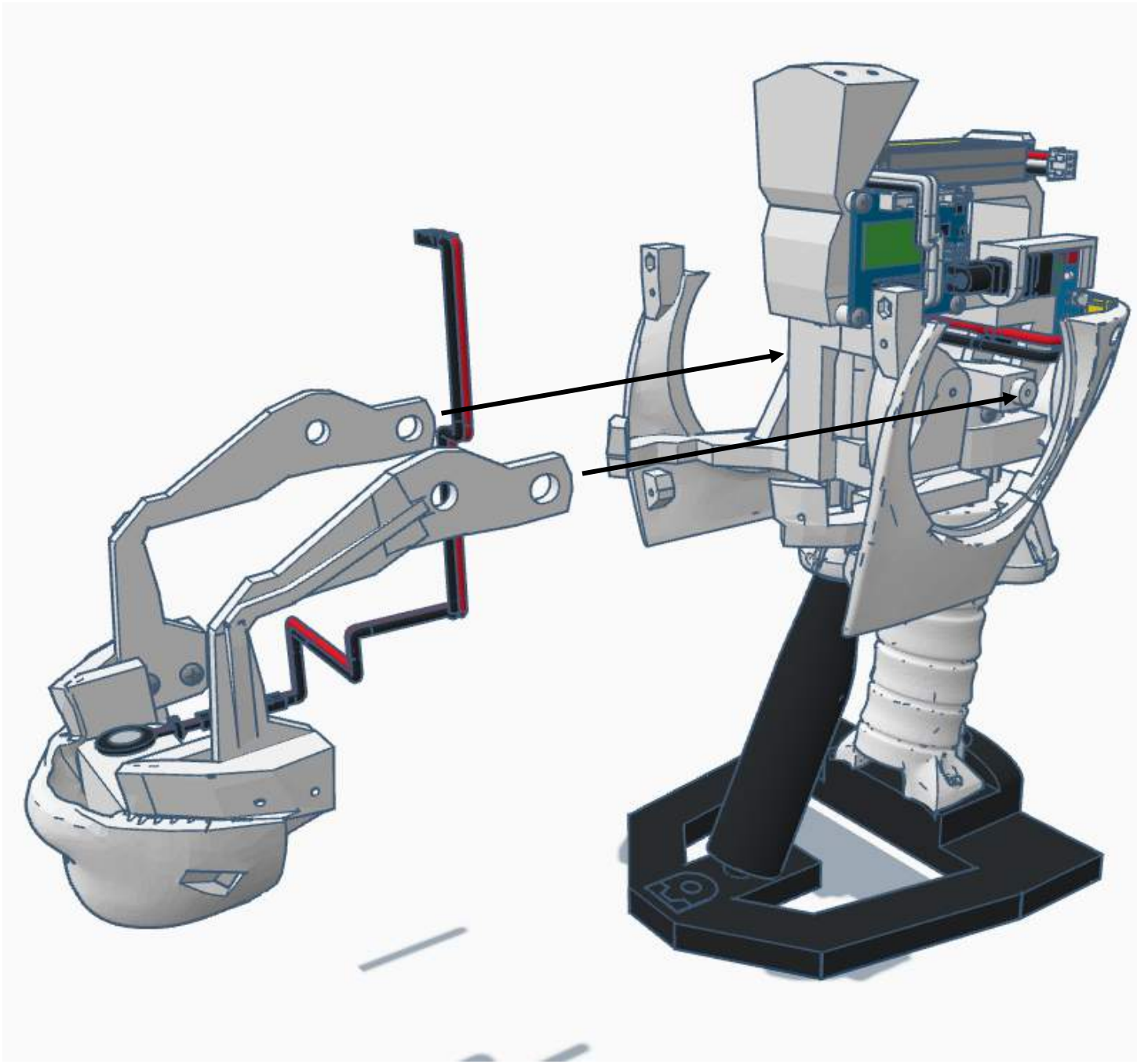


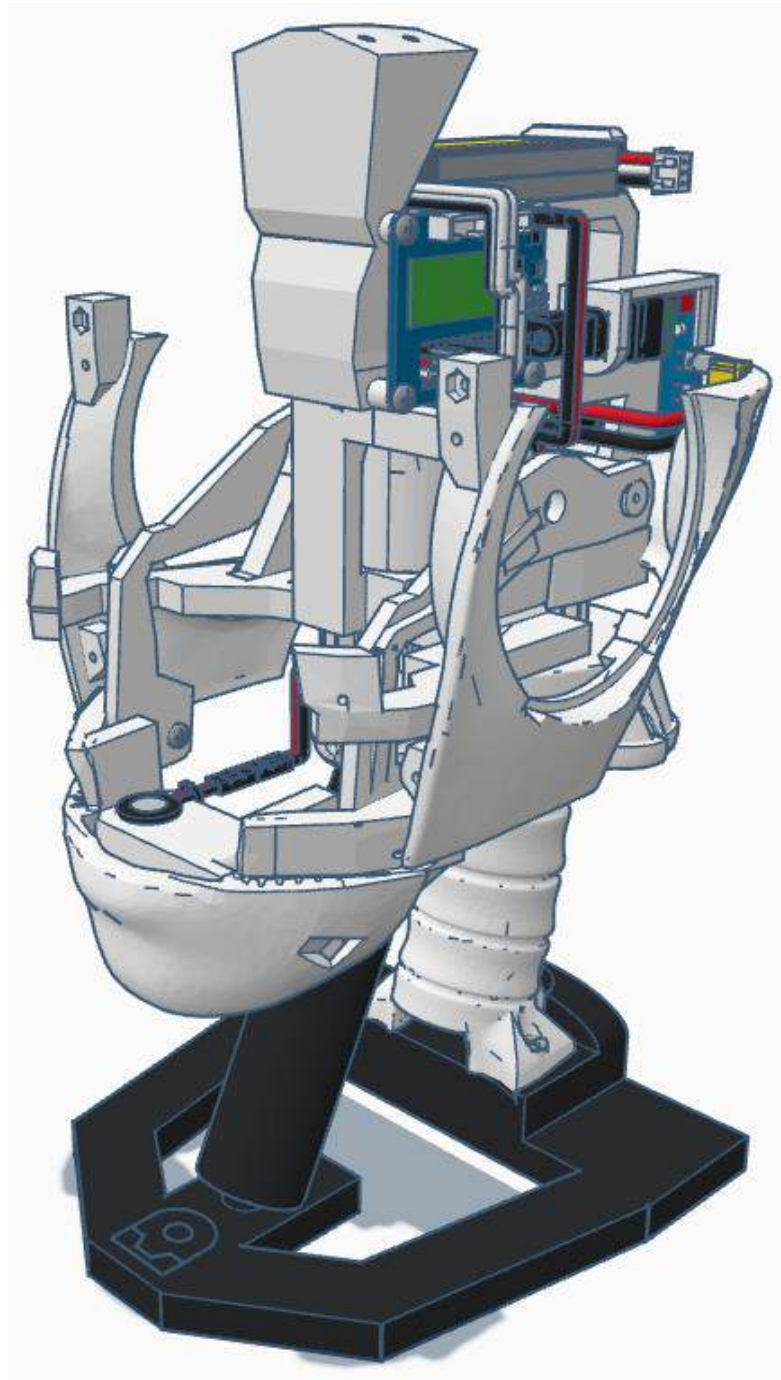




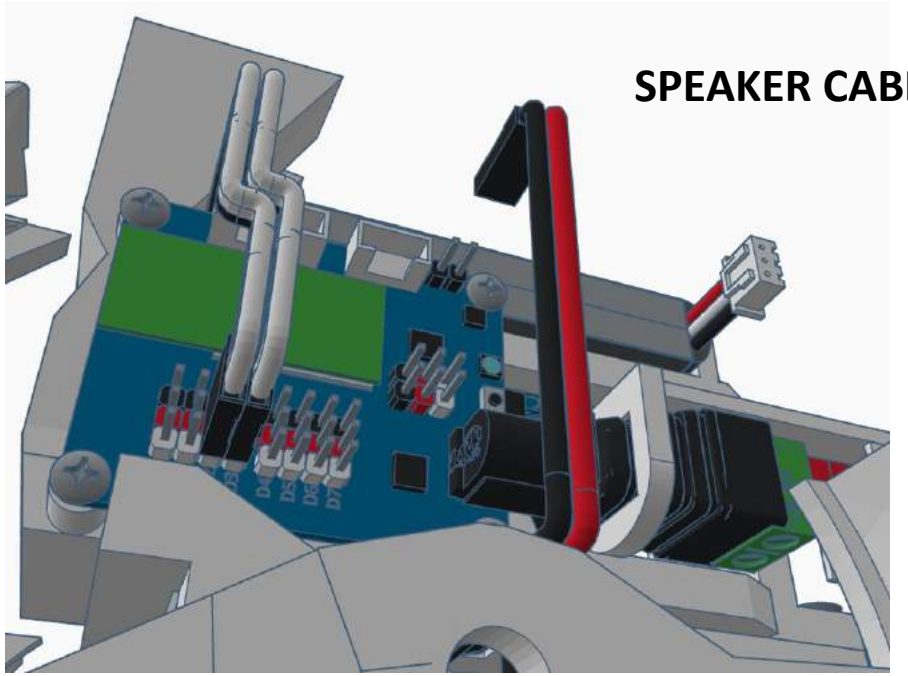


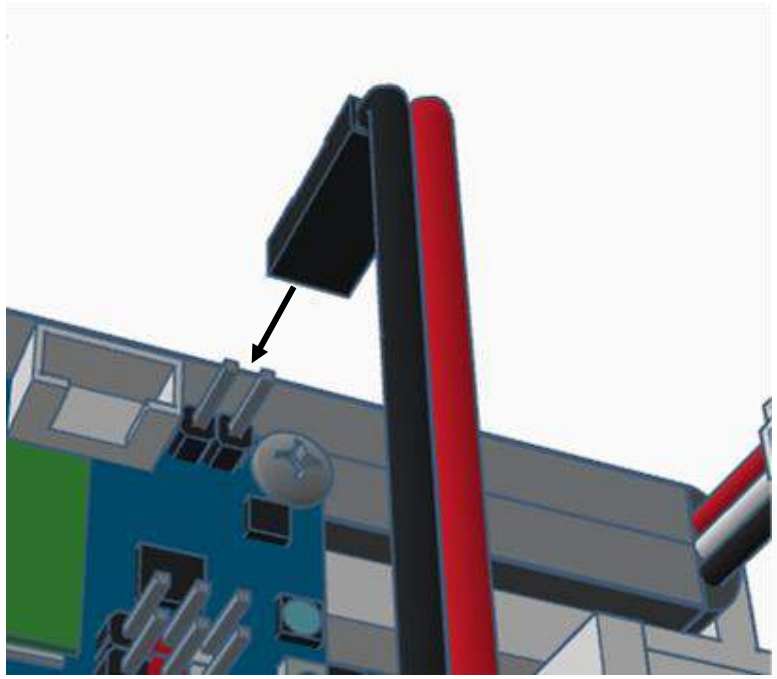


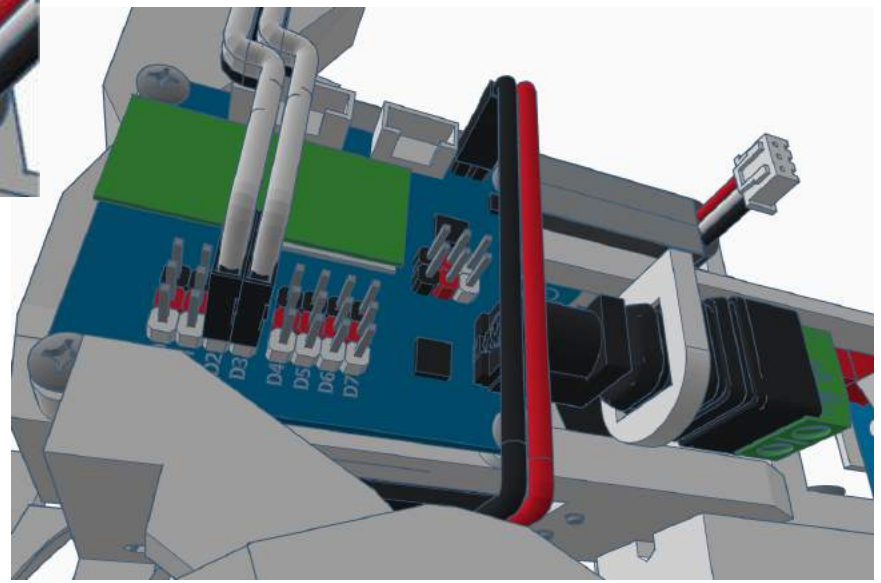


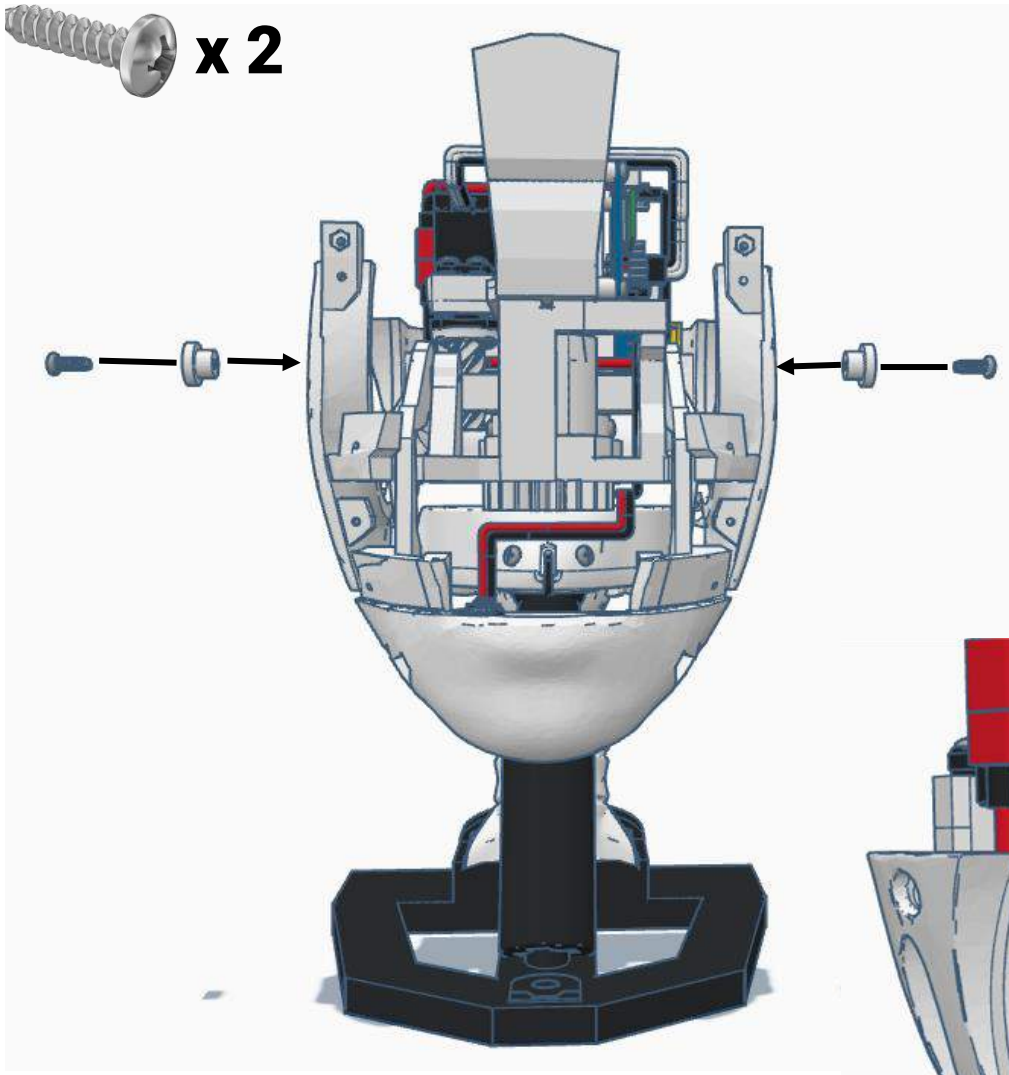


SPEAKER CABLE PLUGS INTO SPKR HEADER





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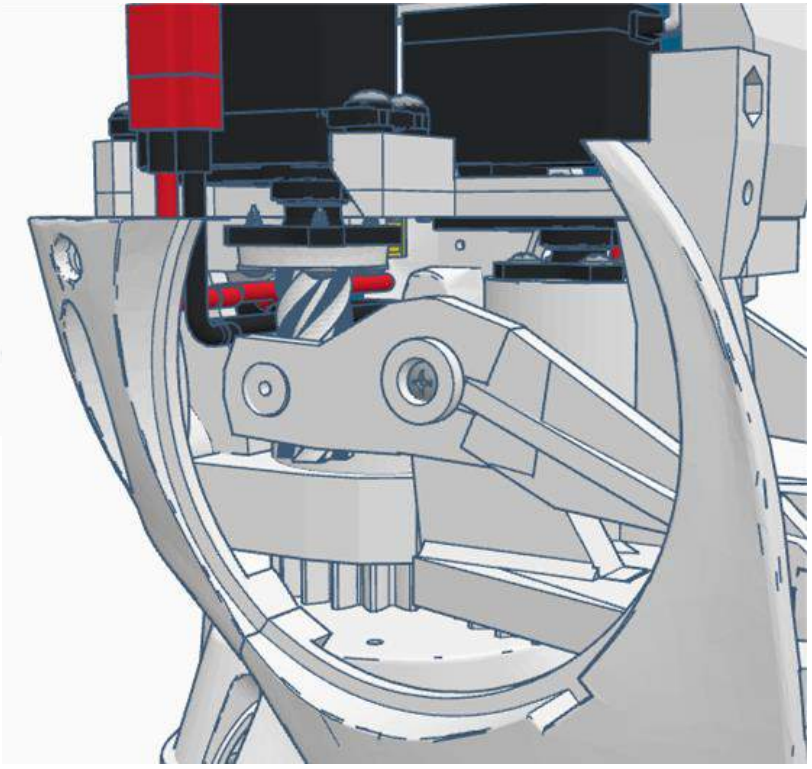

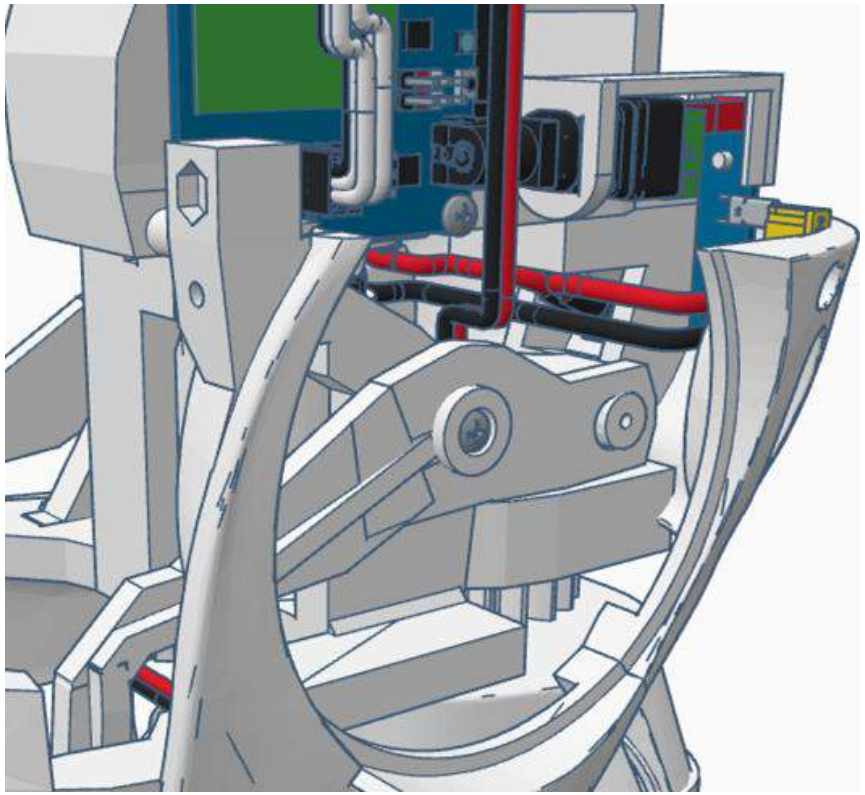

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x 4

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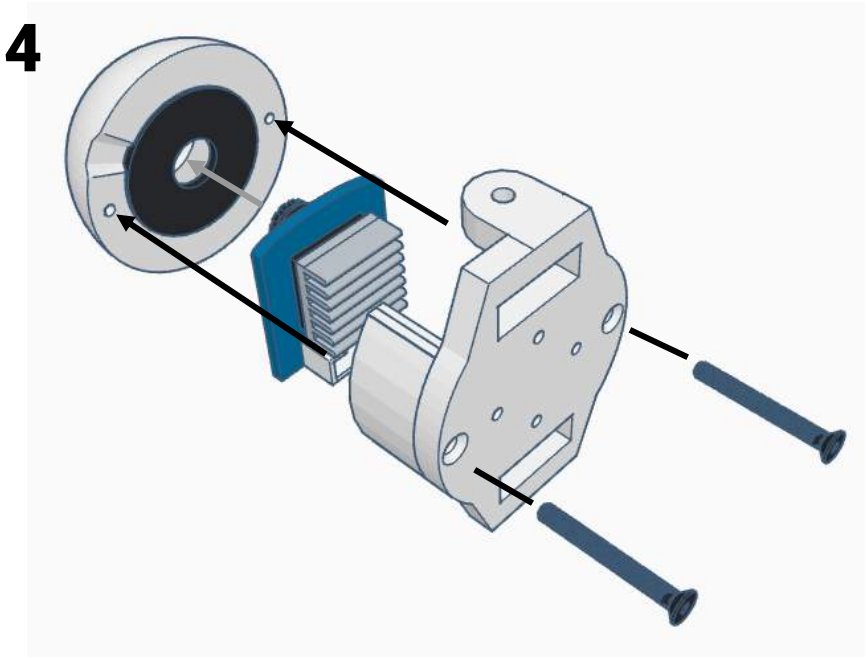

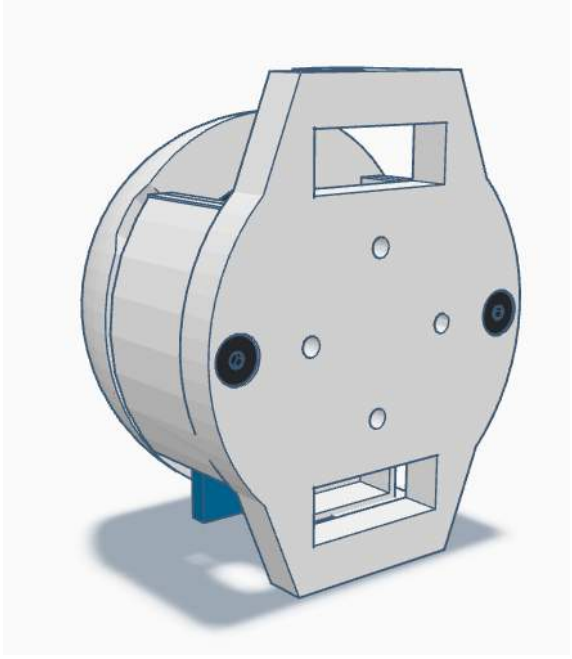

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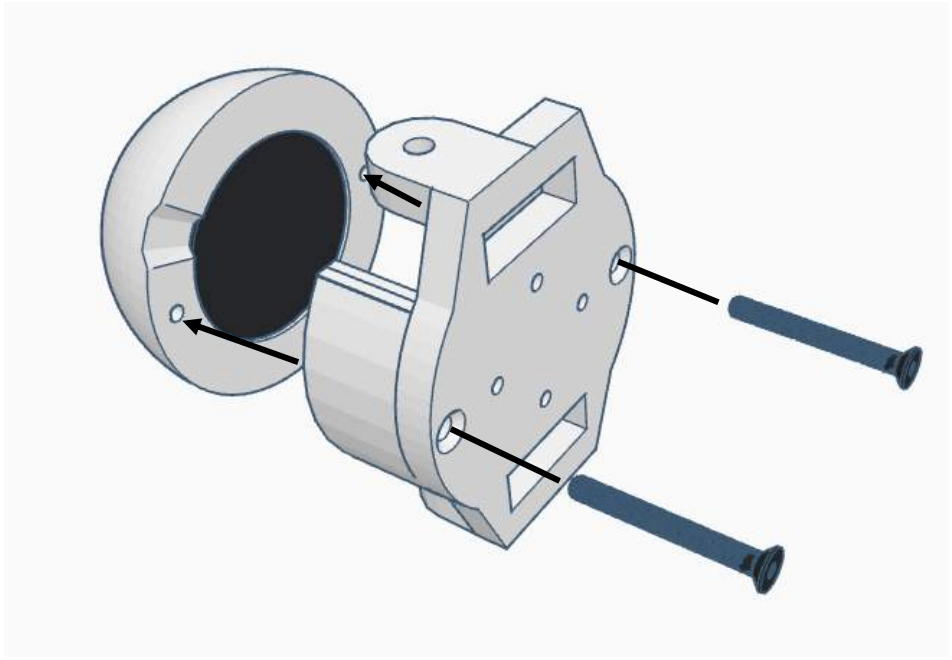

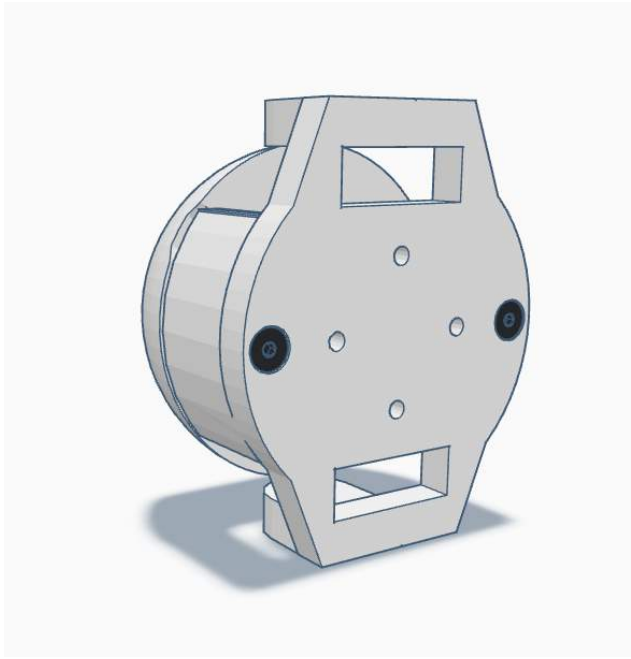

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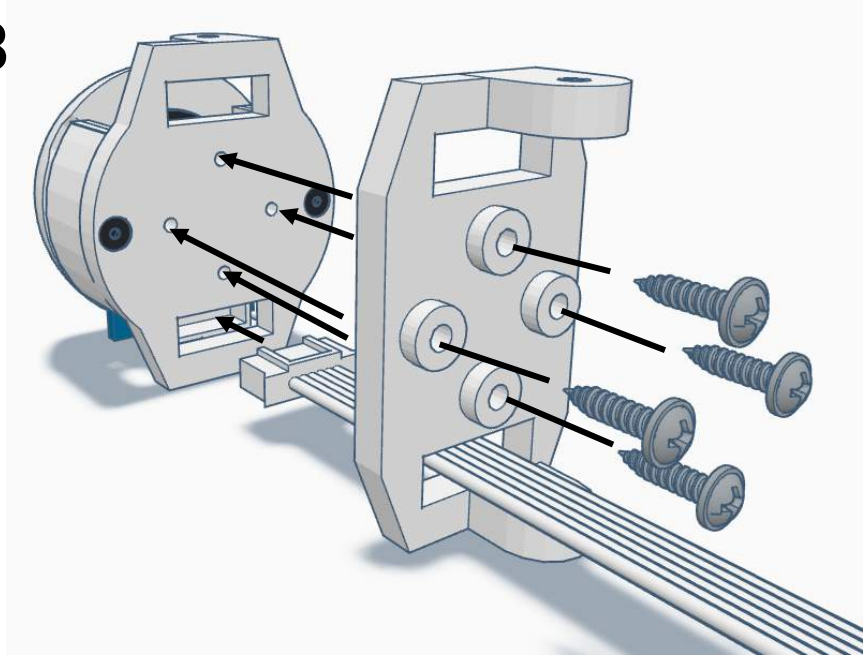

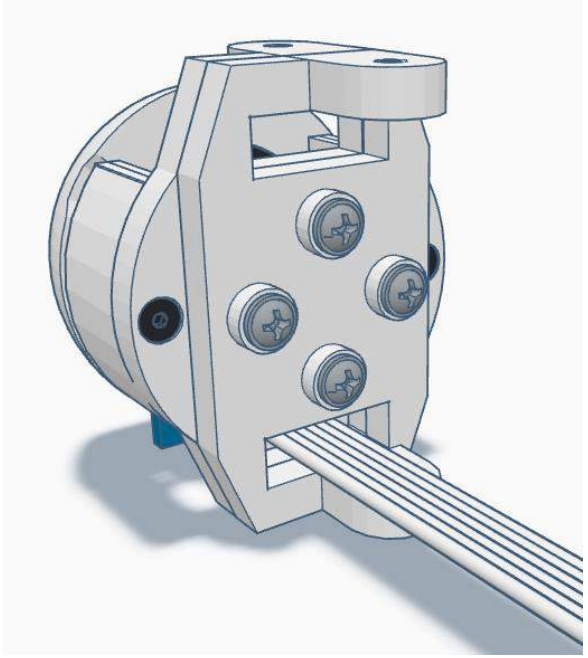

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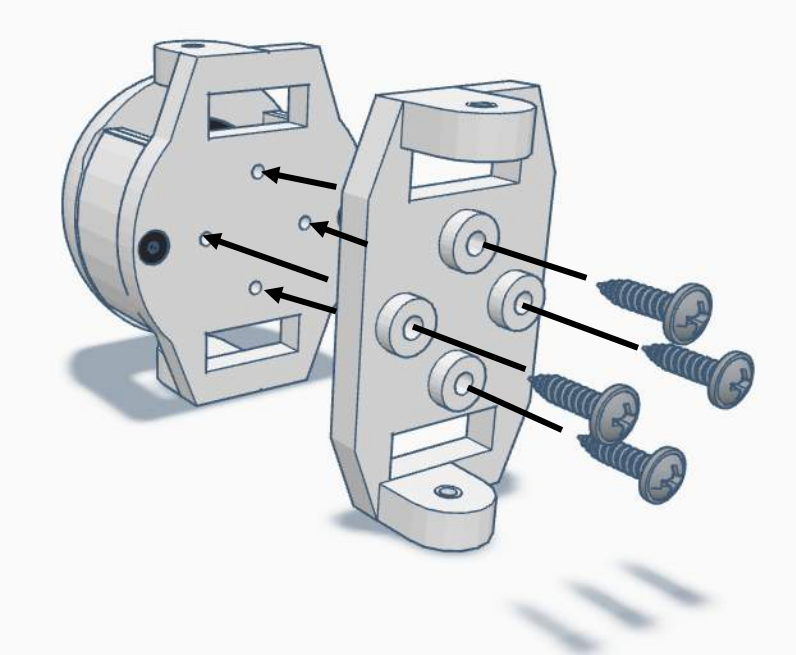

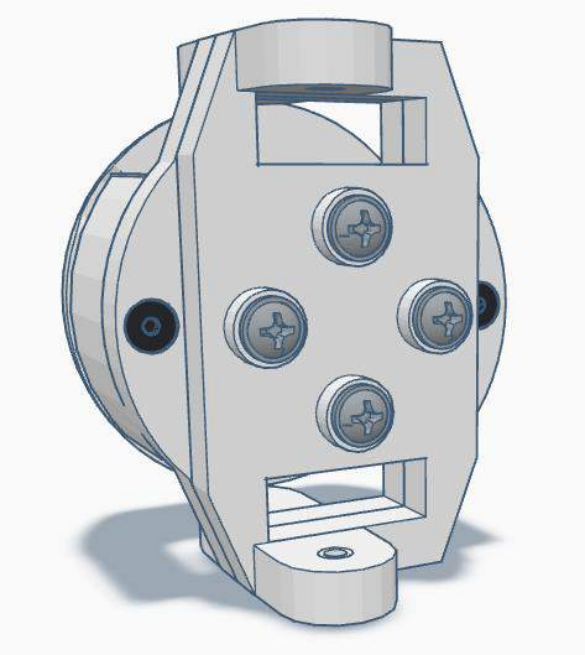

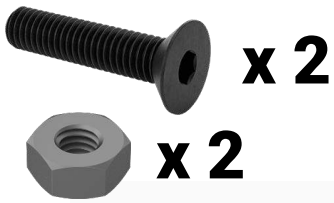
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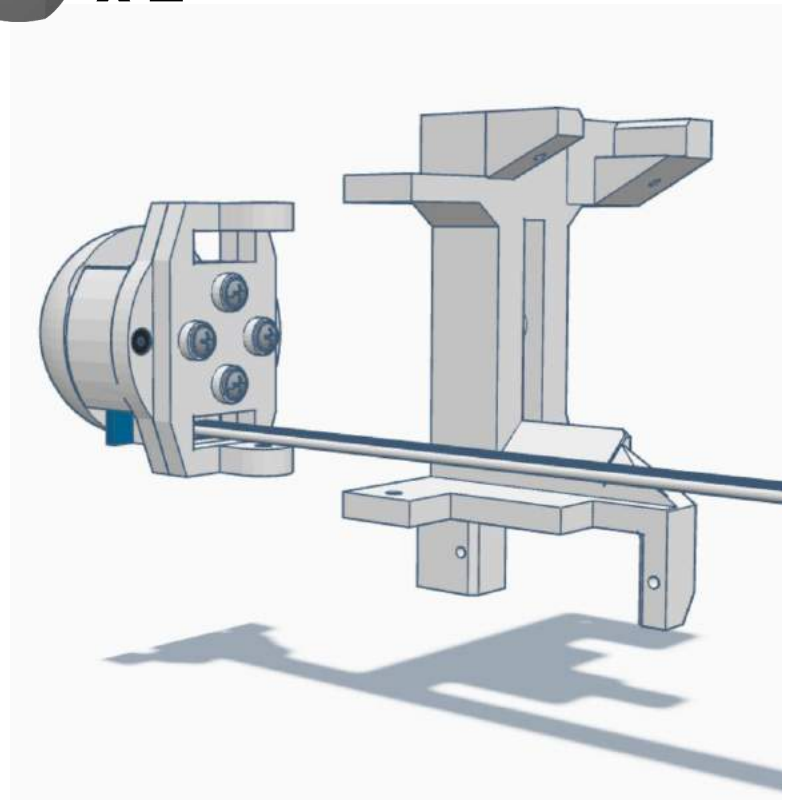
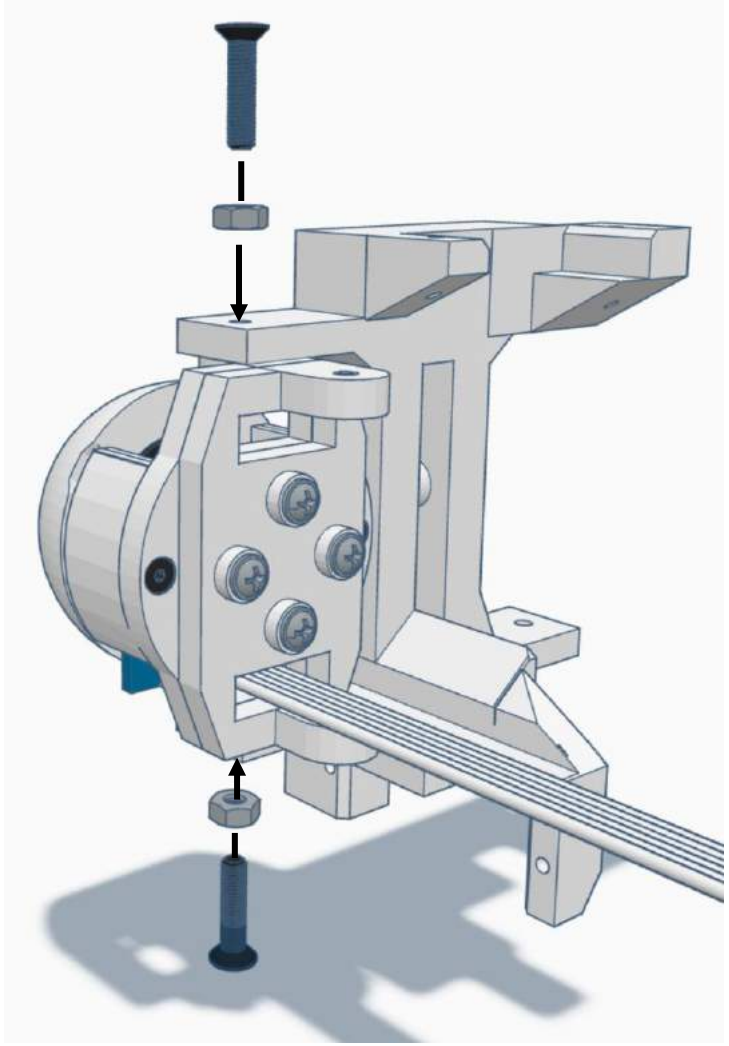
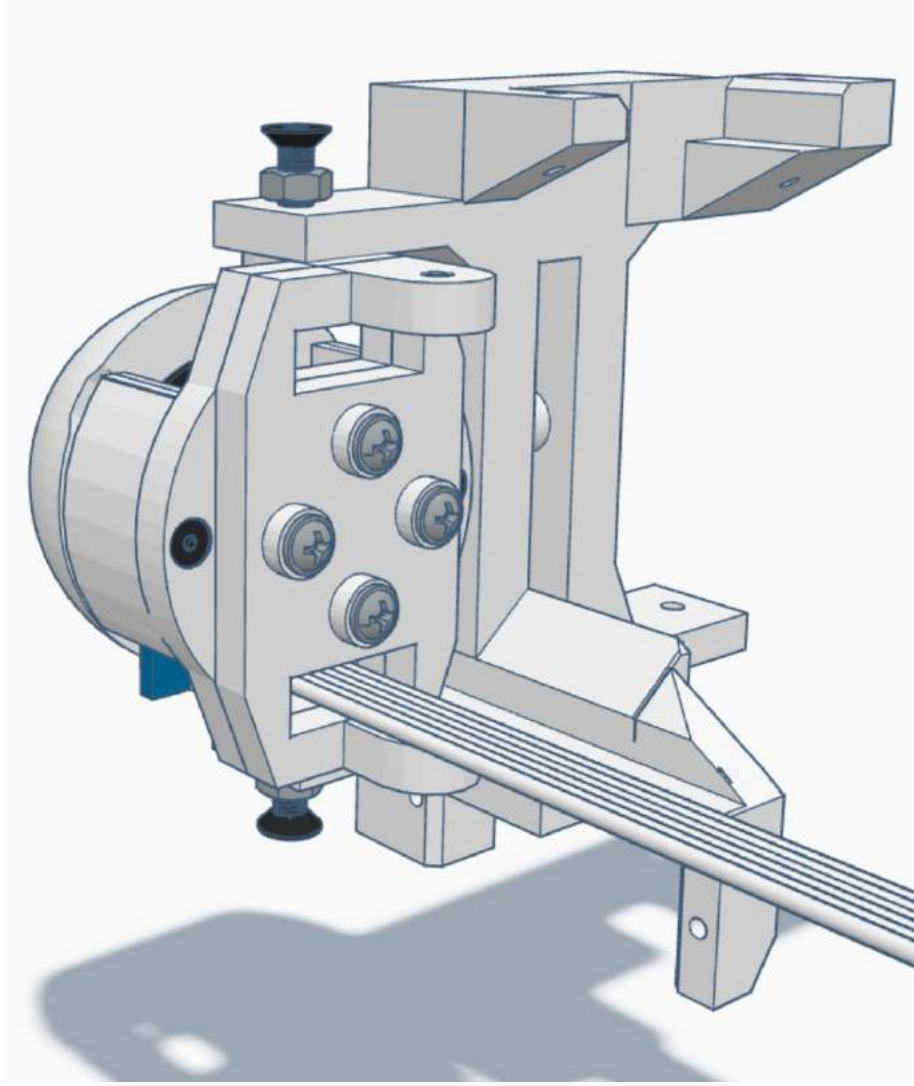
x 2







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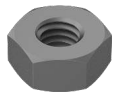

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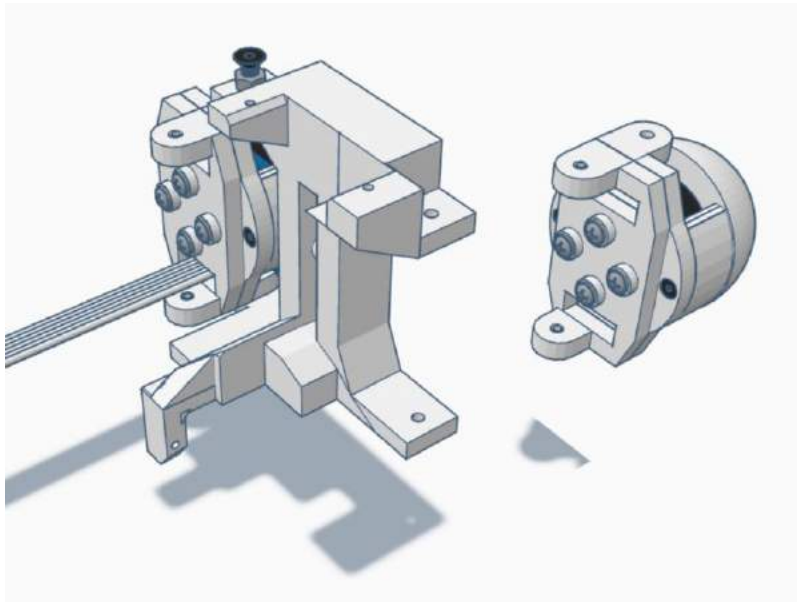

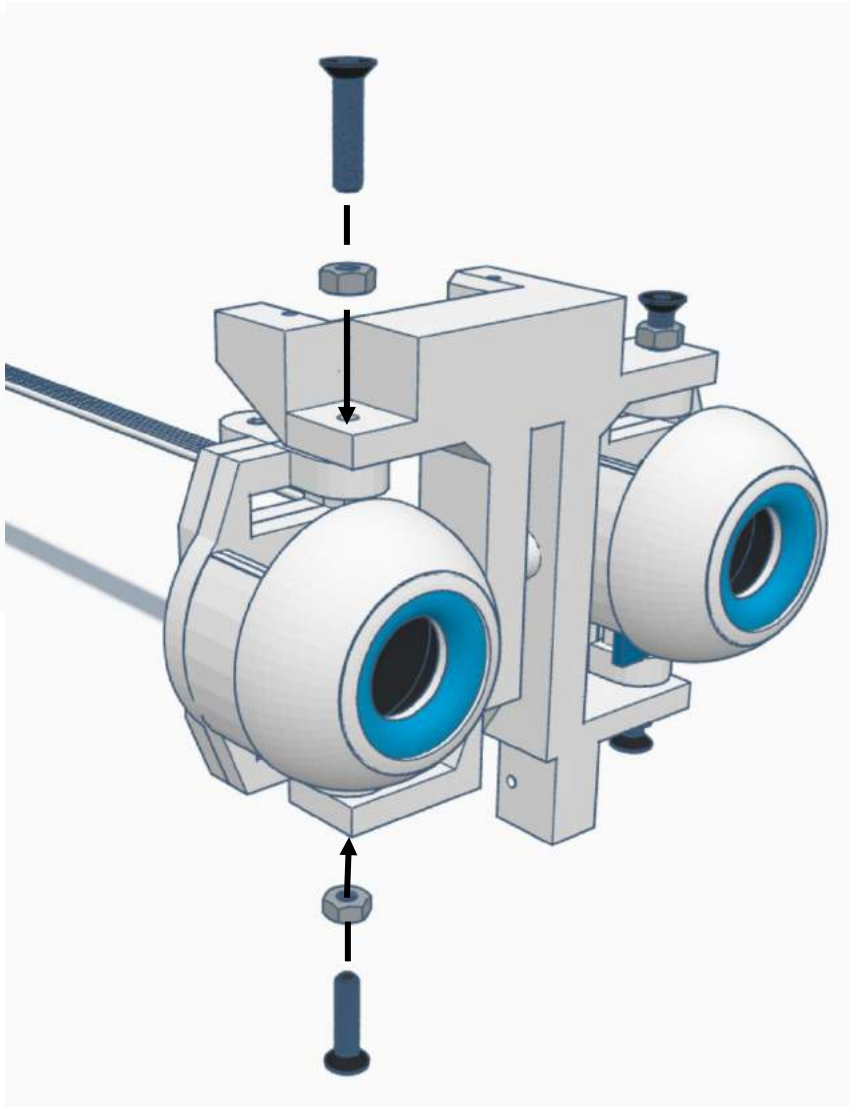

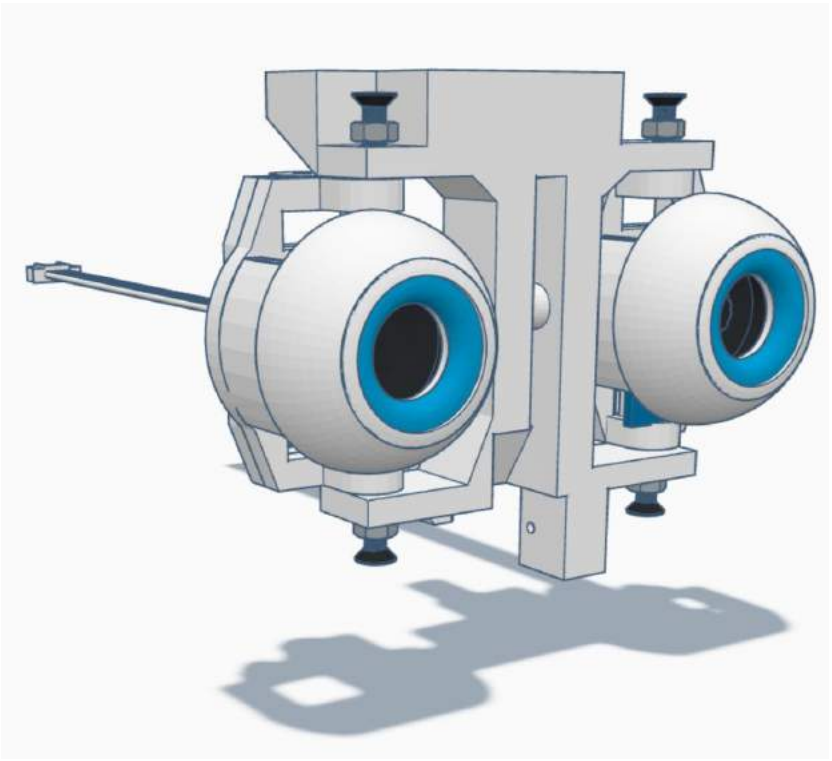

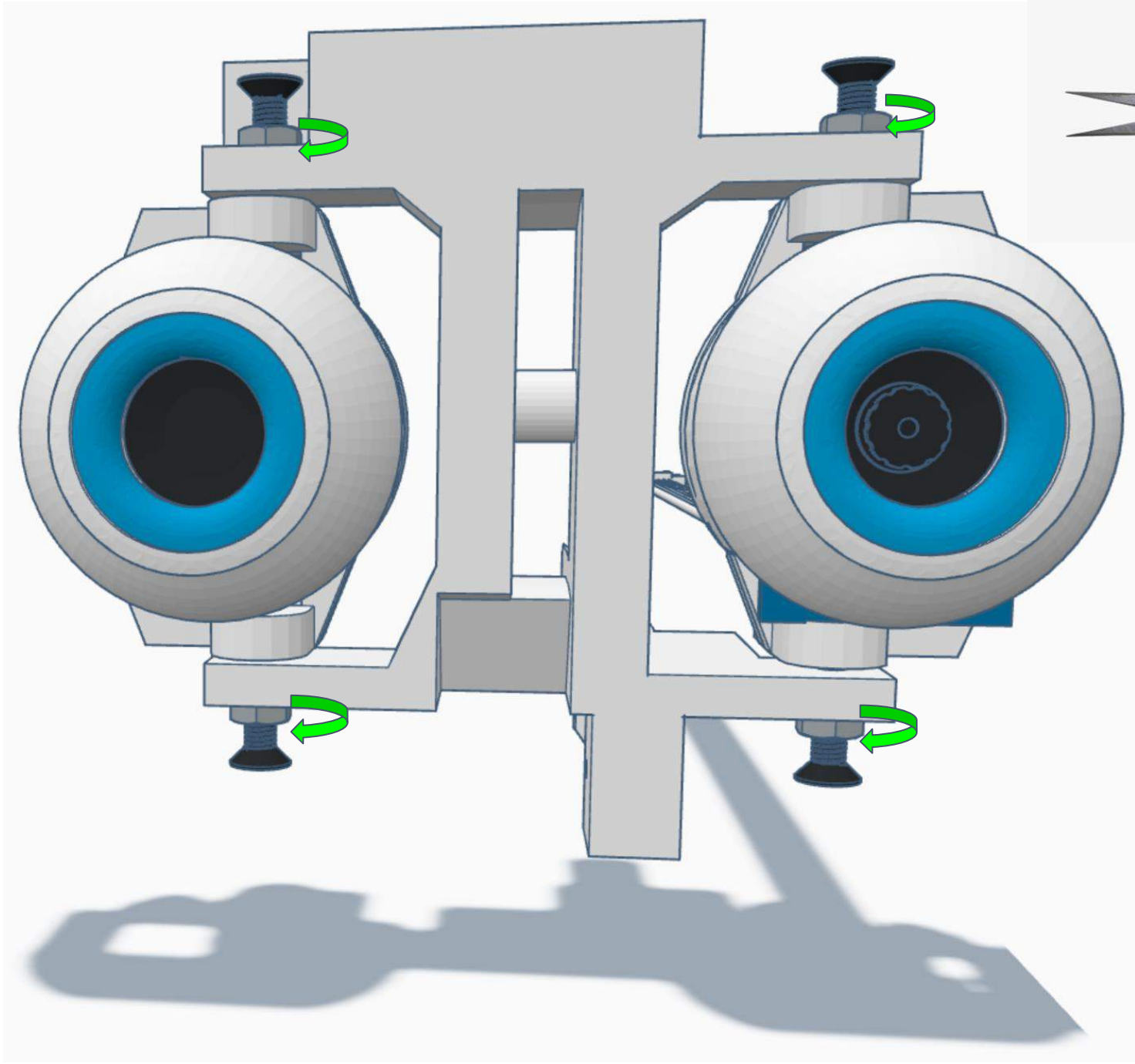

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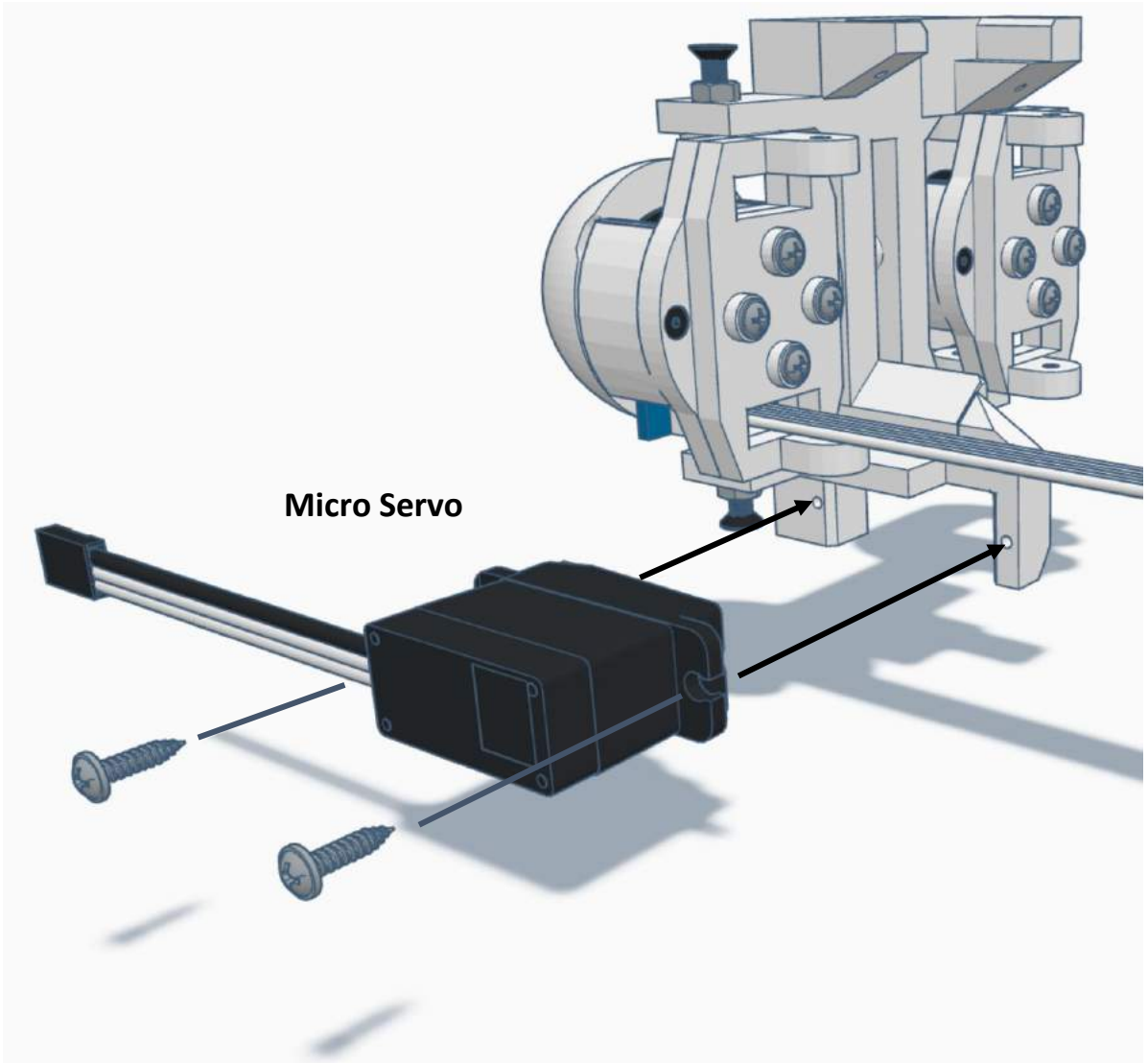

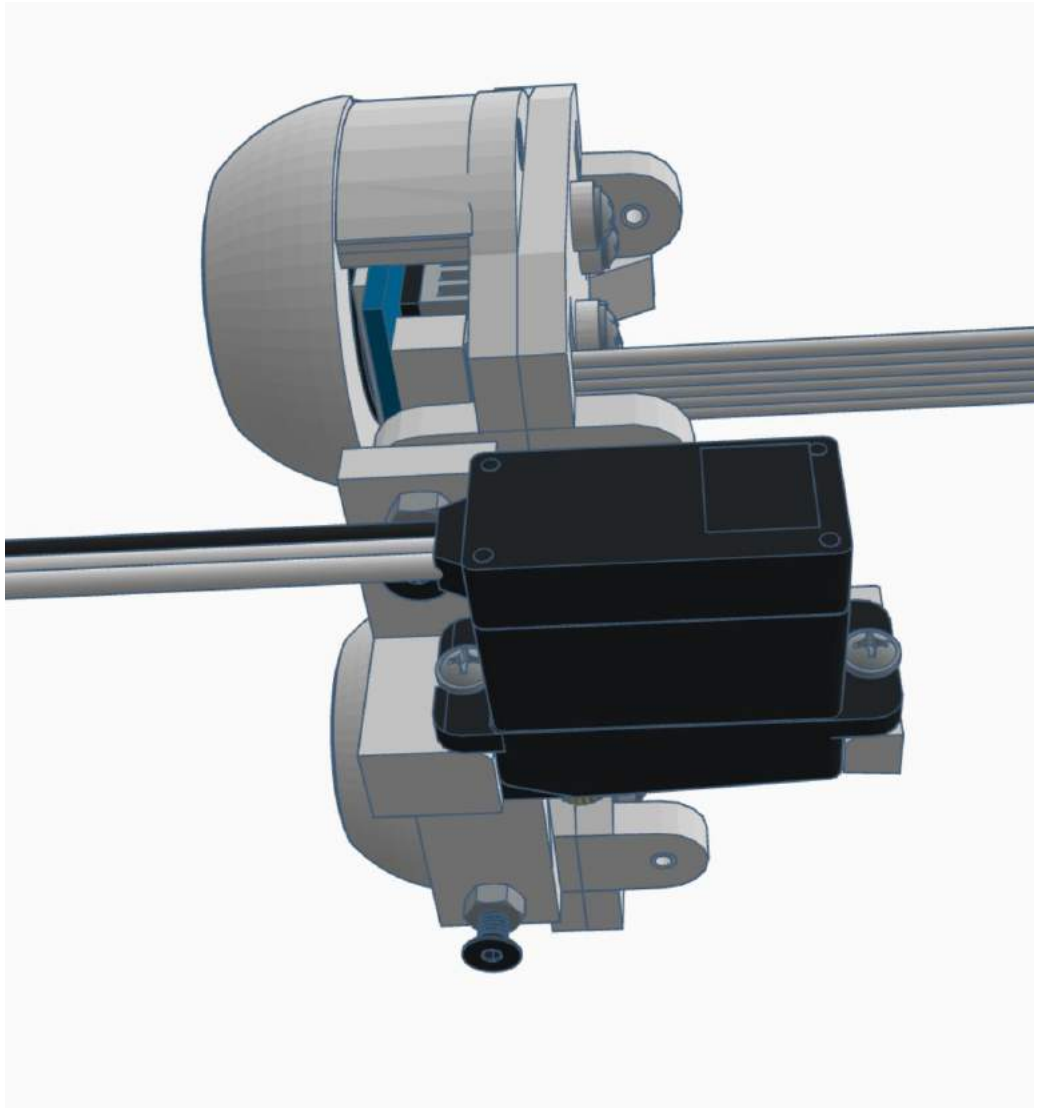

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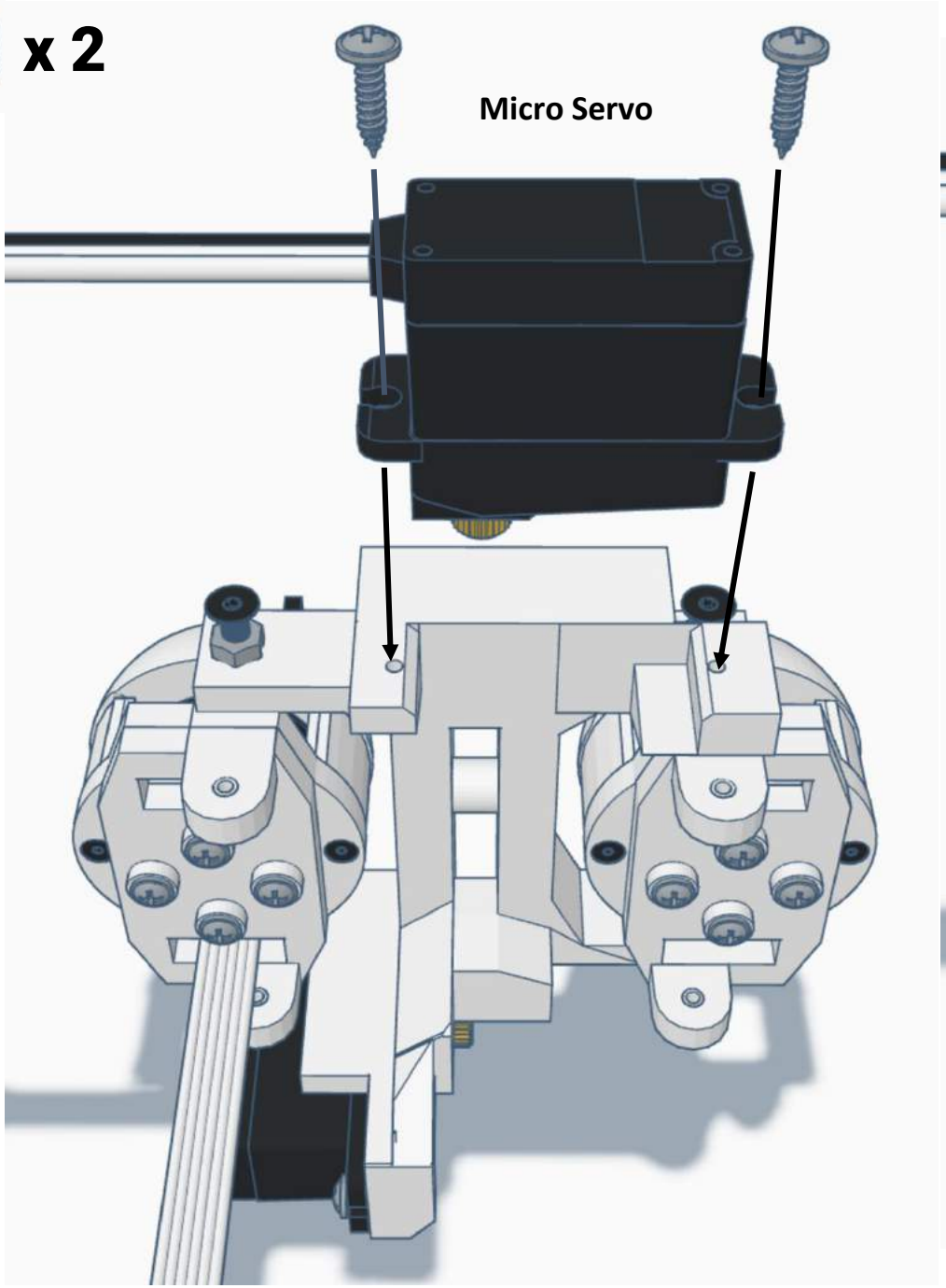

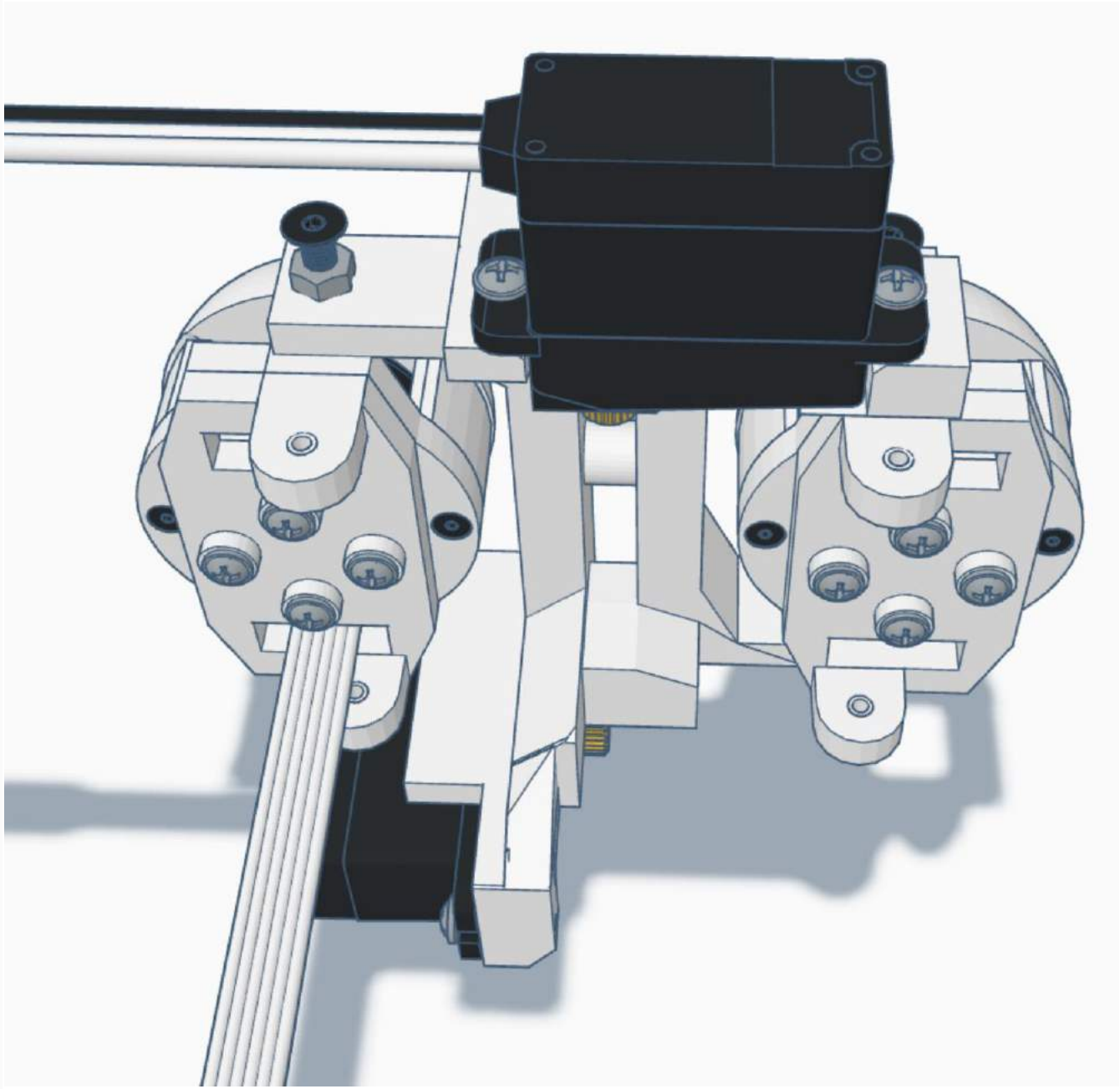

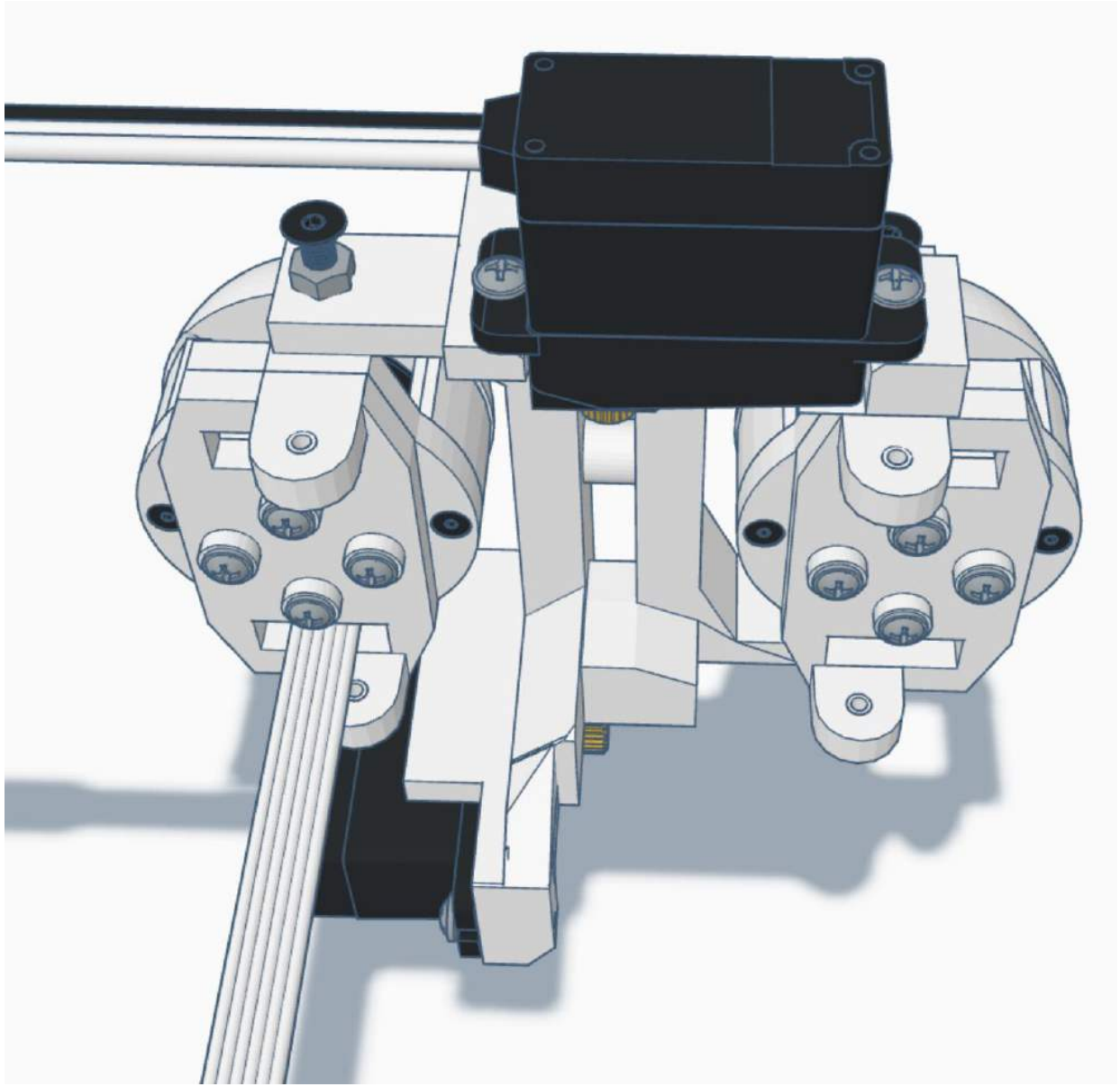

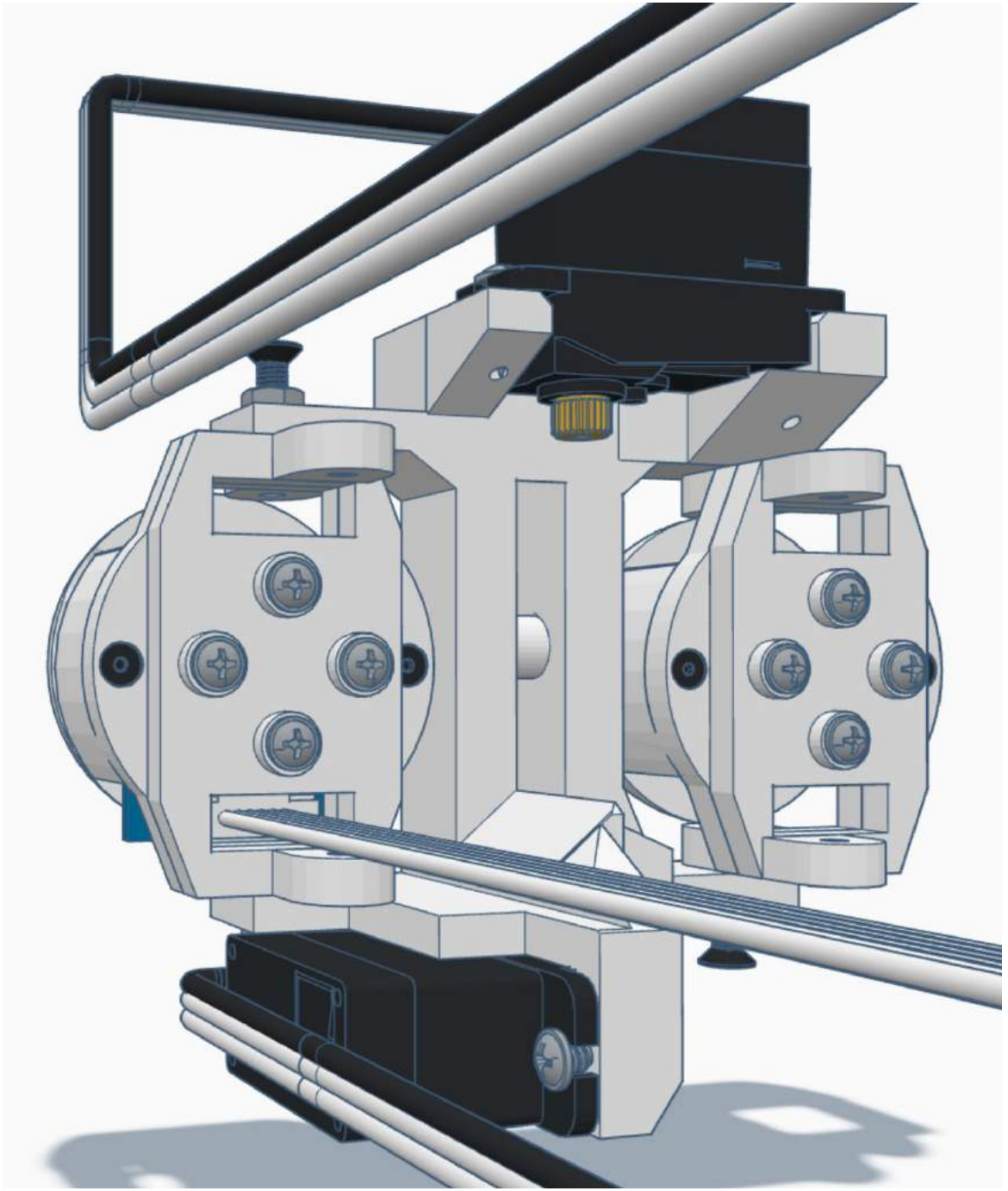

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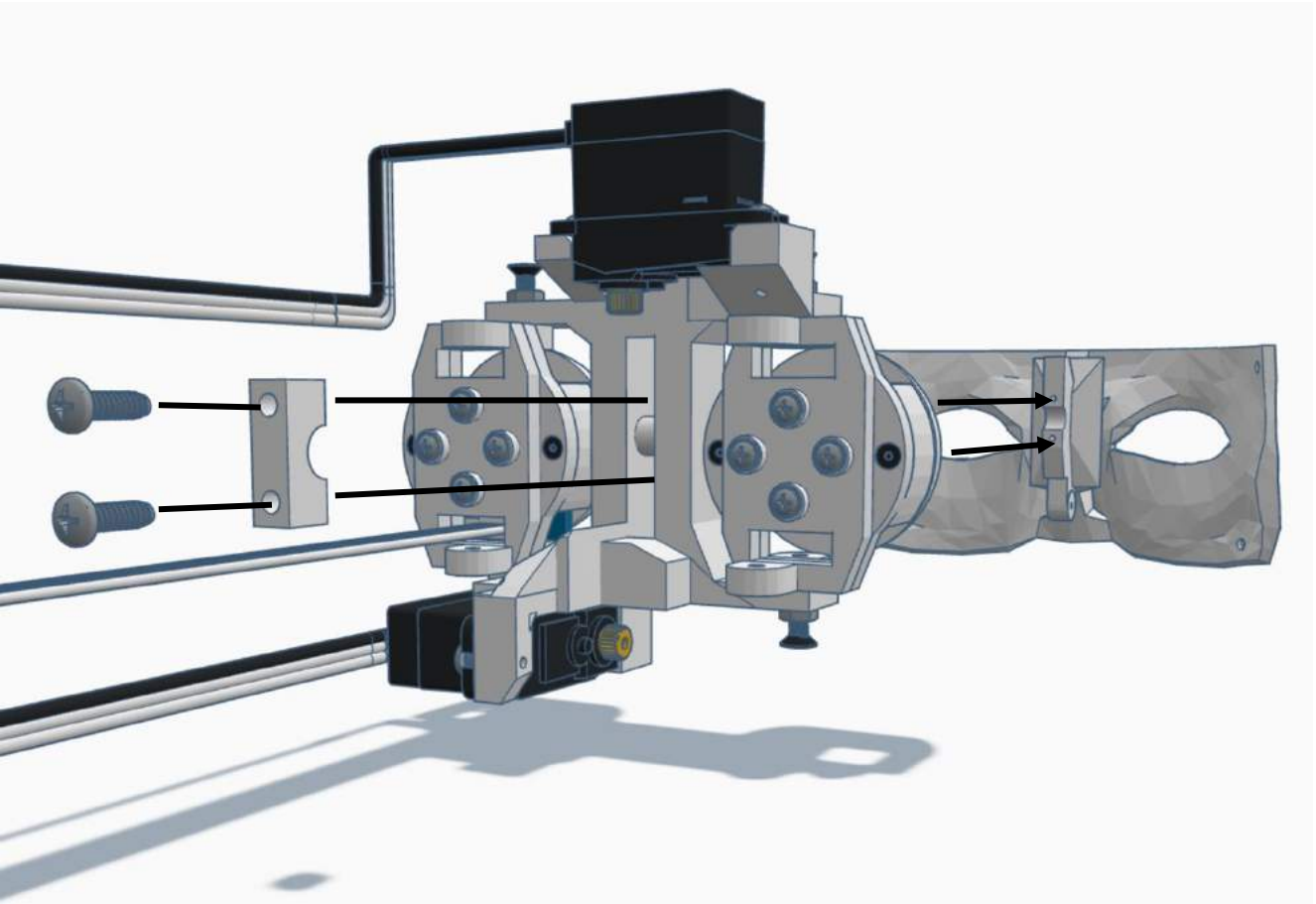

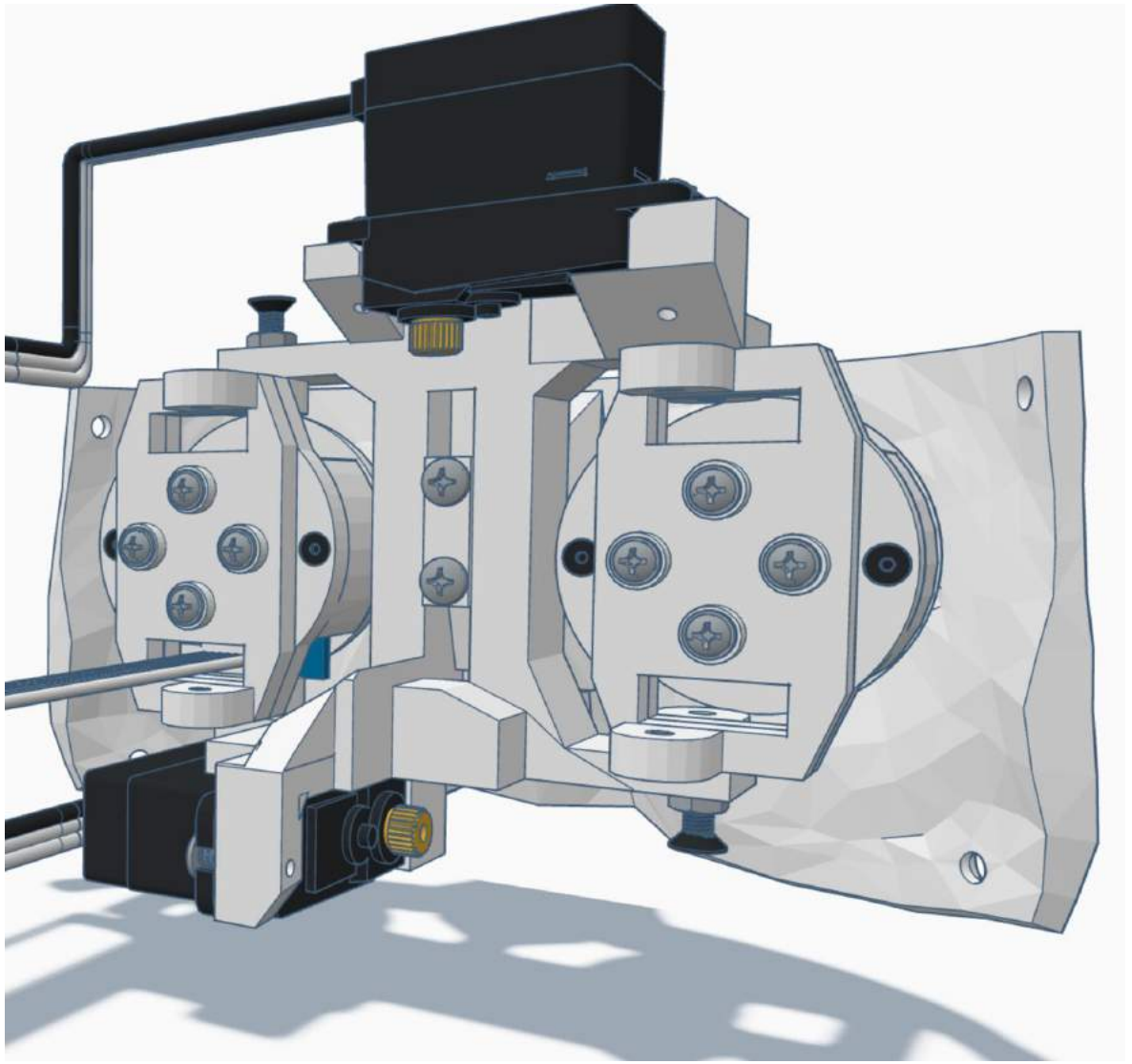

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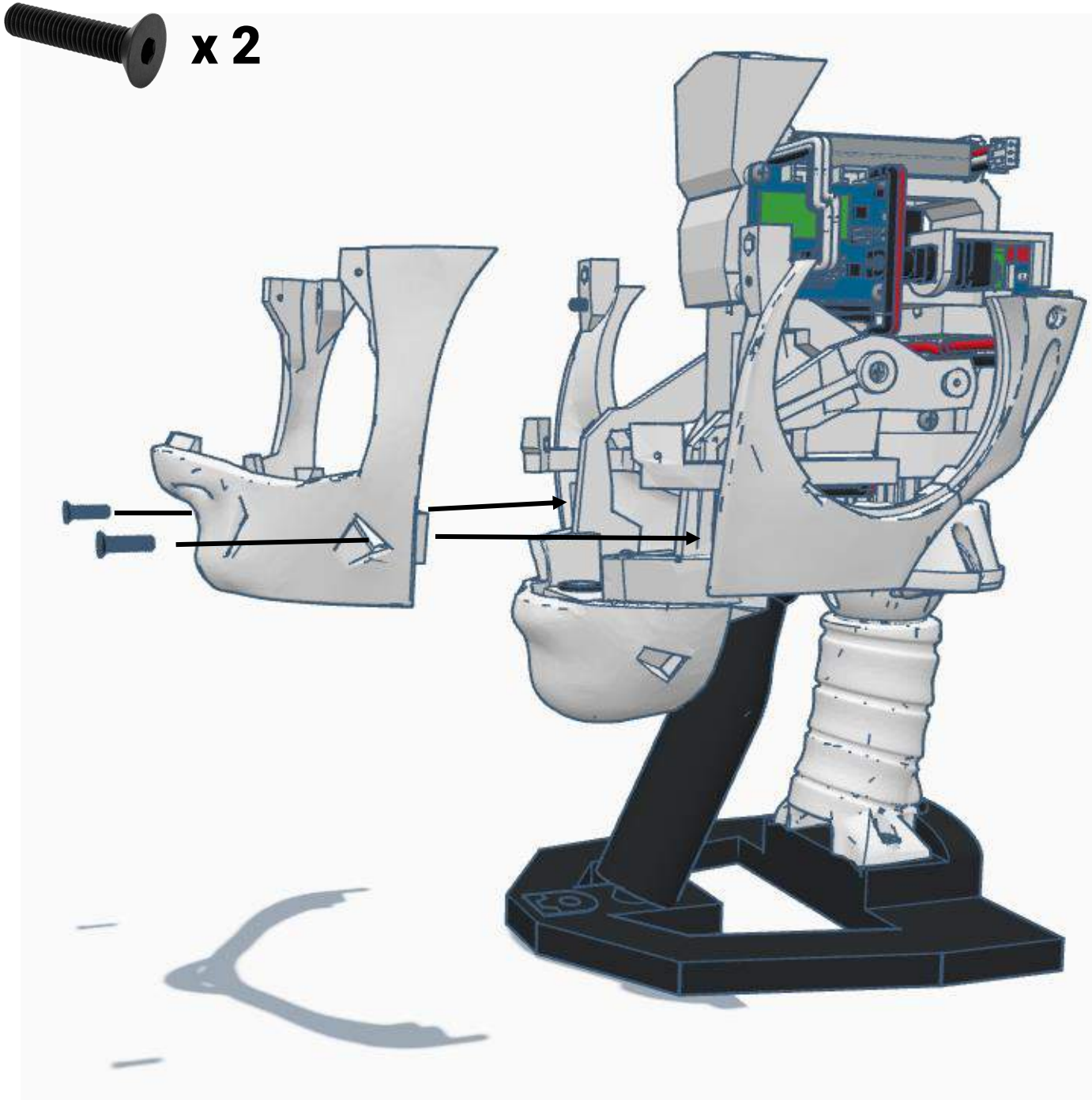

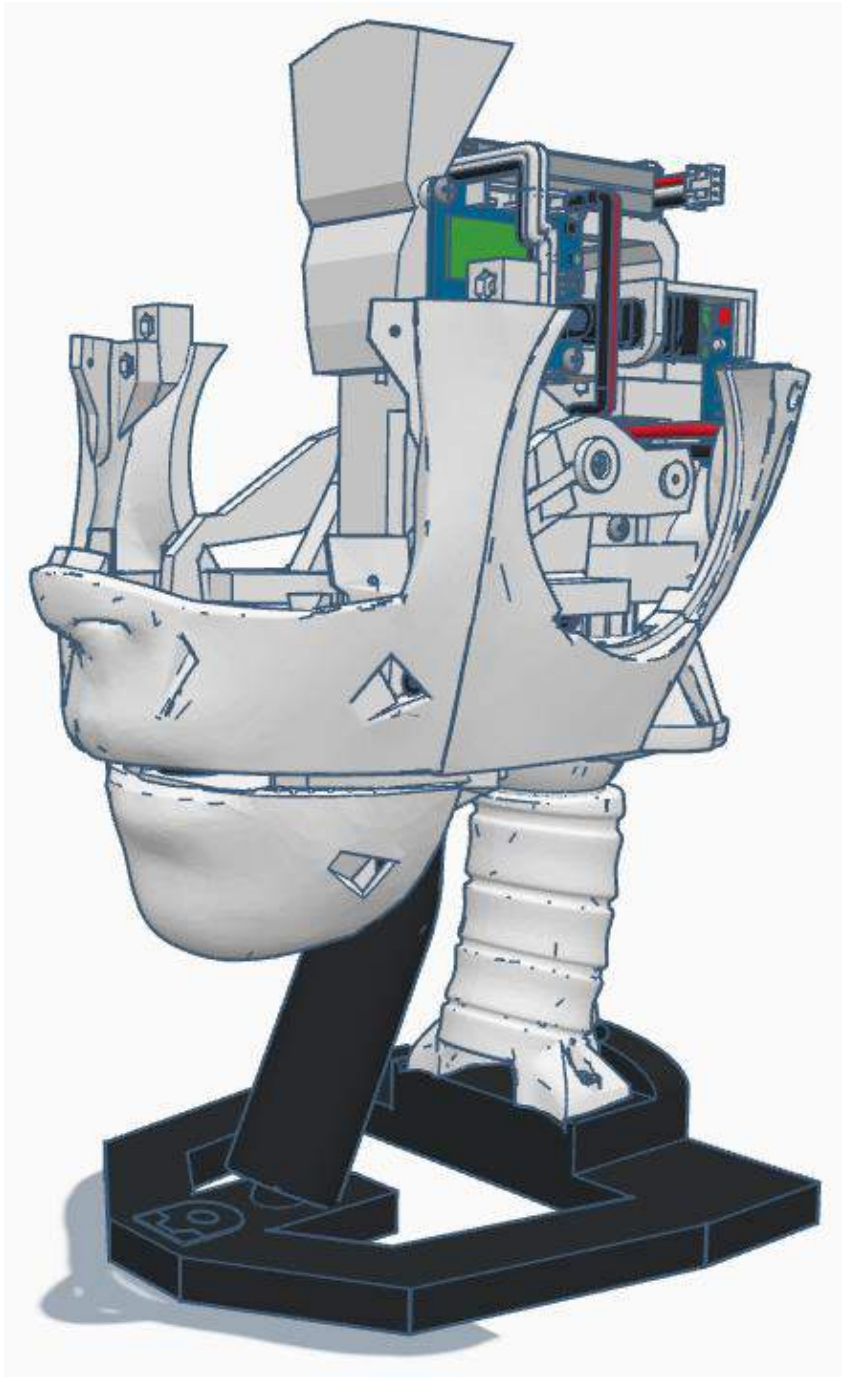

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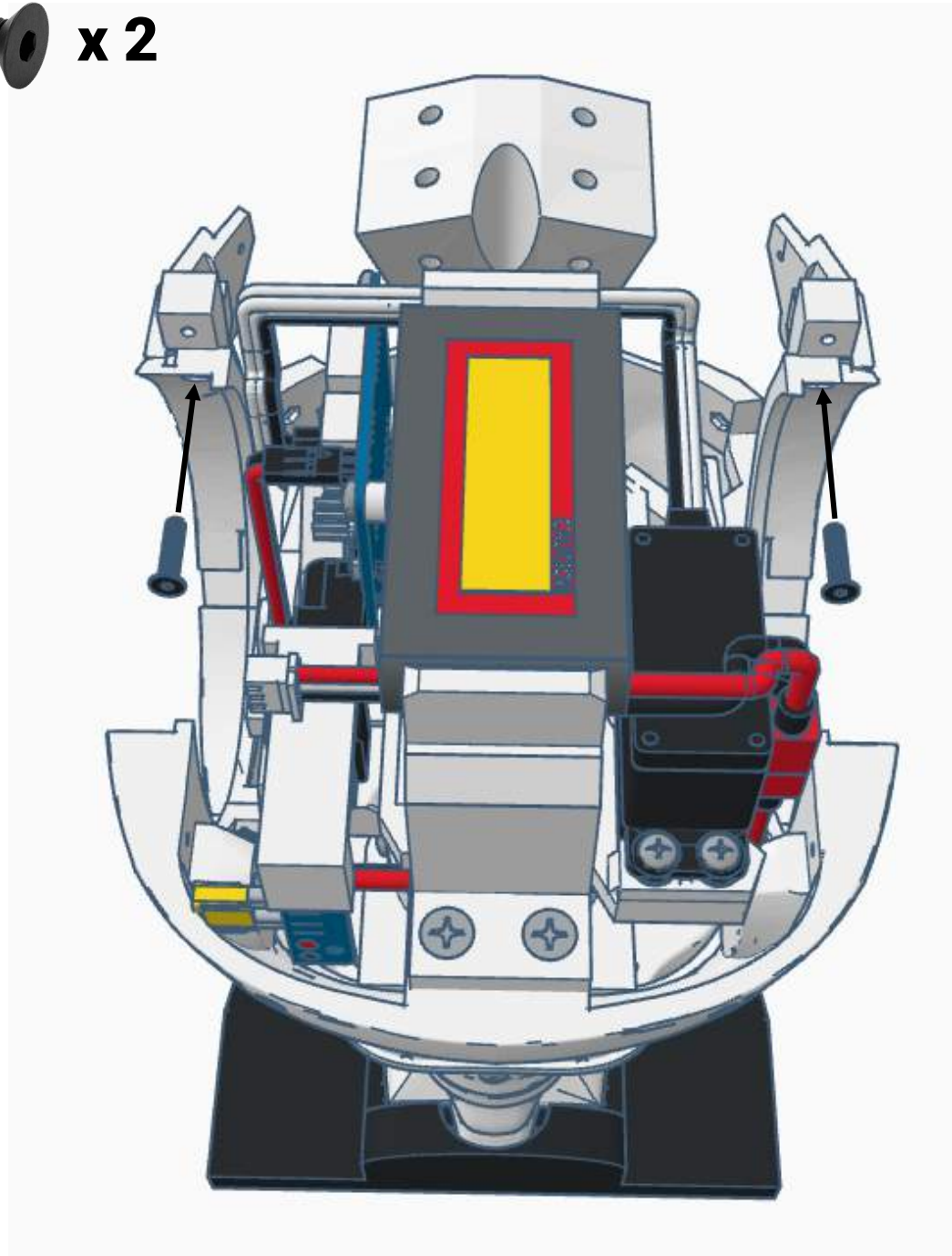
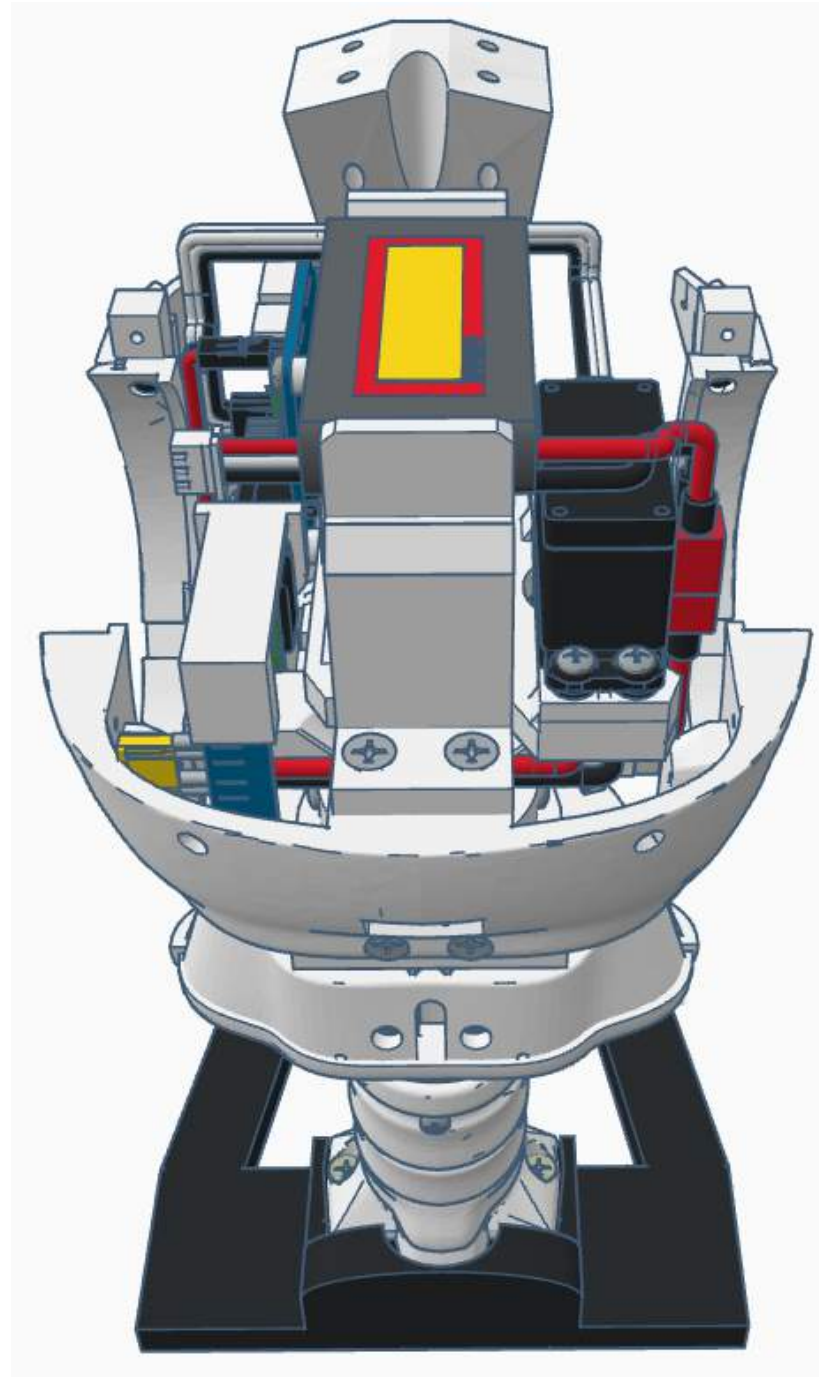
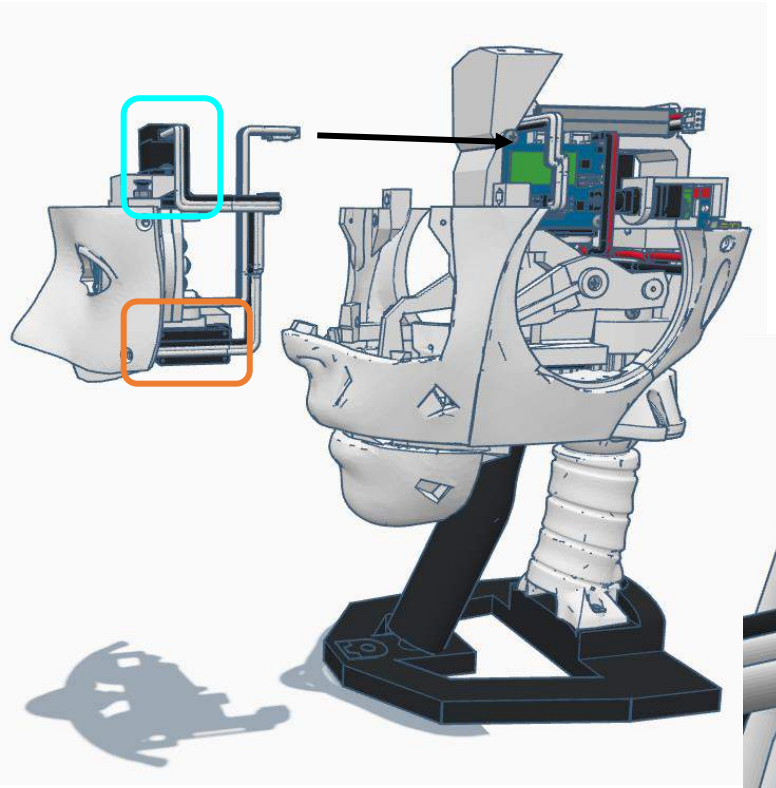
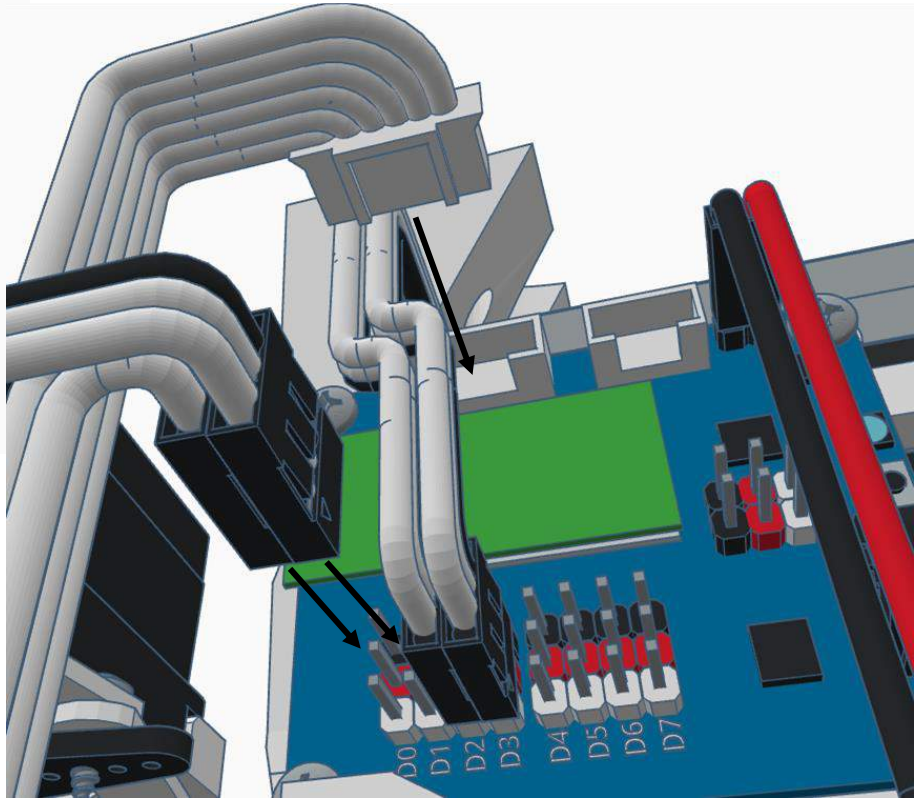




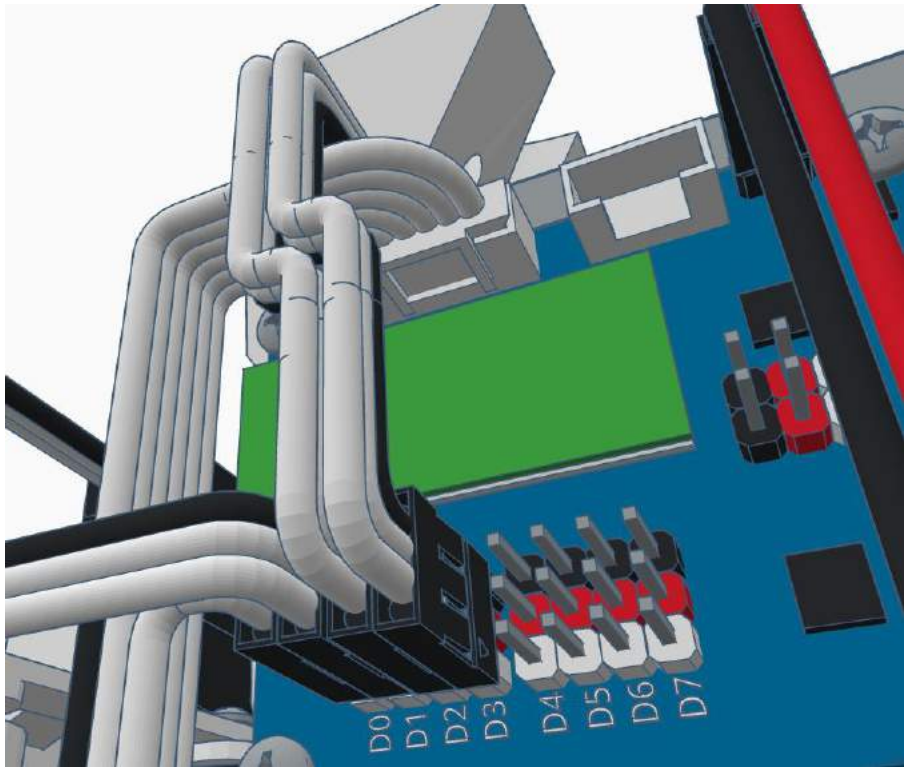


Camera Cable plugs into CAMERA port

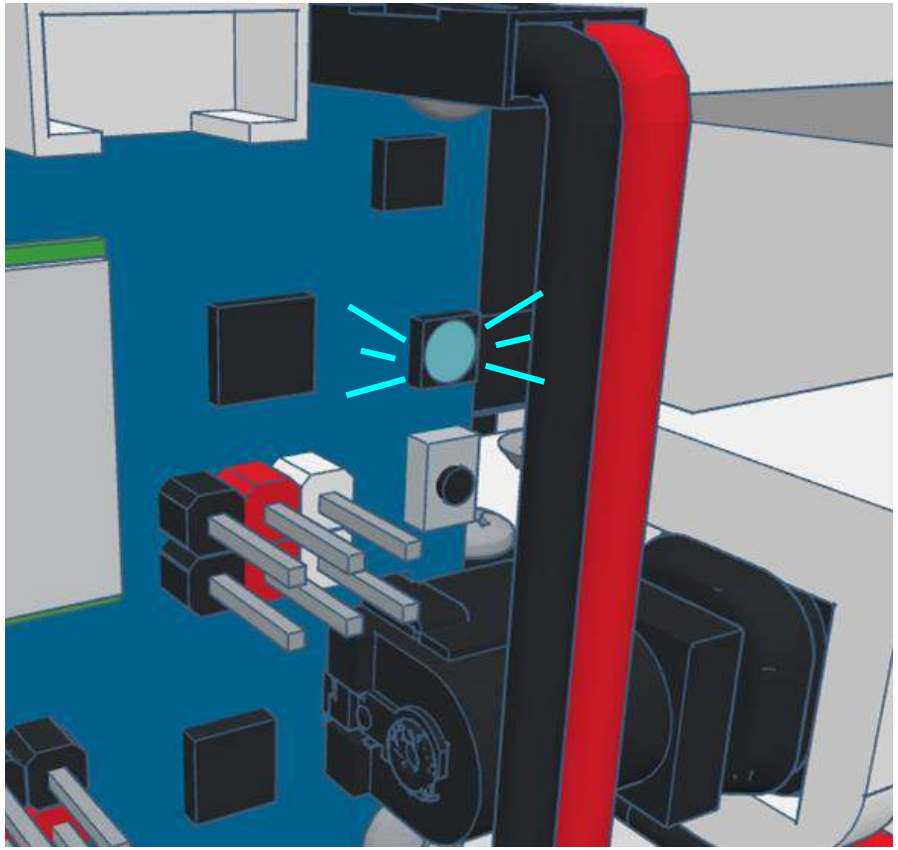


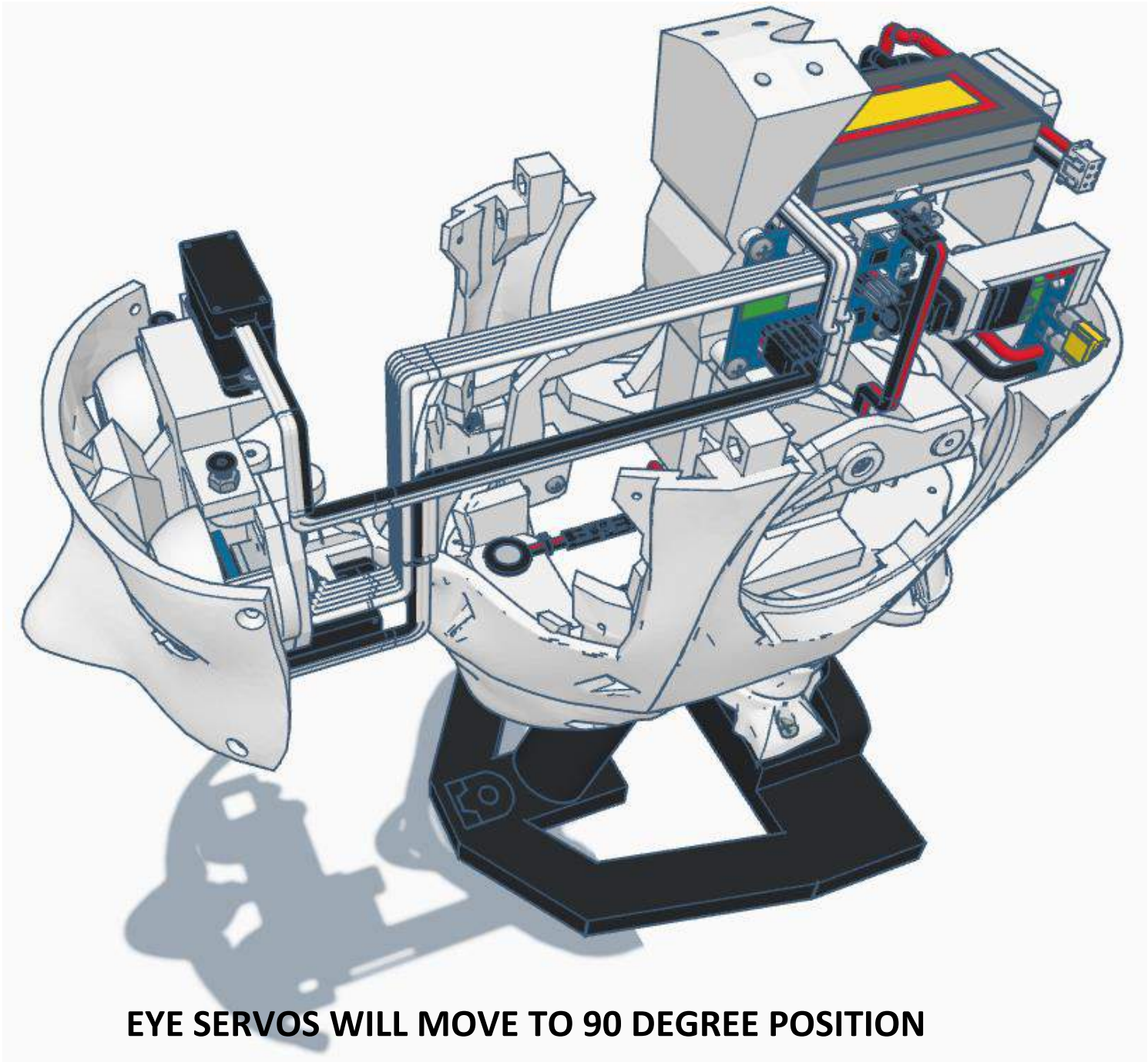
D0 - Eye Tilt Servo

D1 - Eye Pan Servo

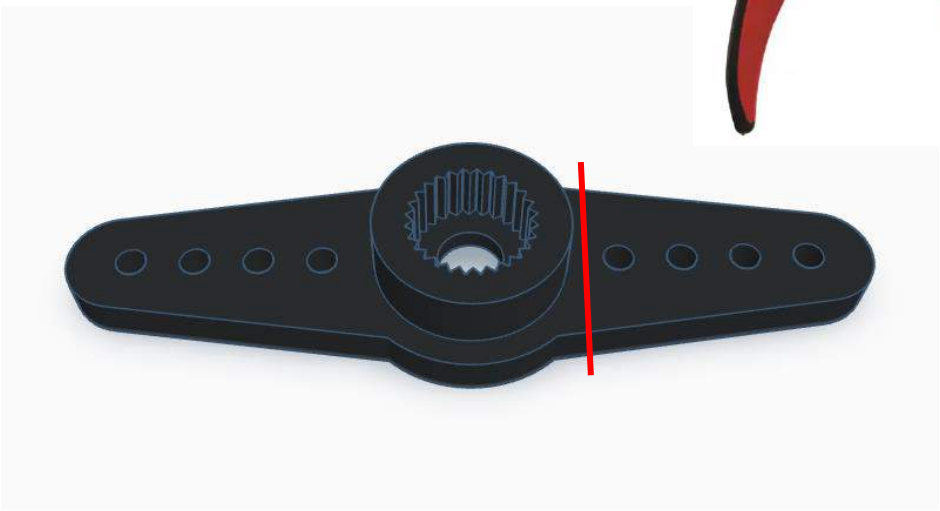


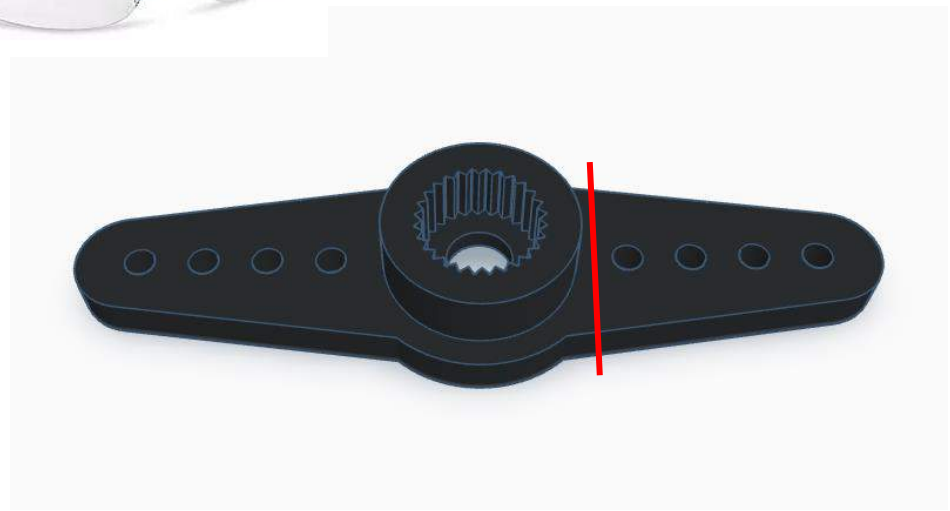
ENSURE THE IOTINY LED IS STILL FLASHING BLUE

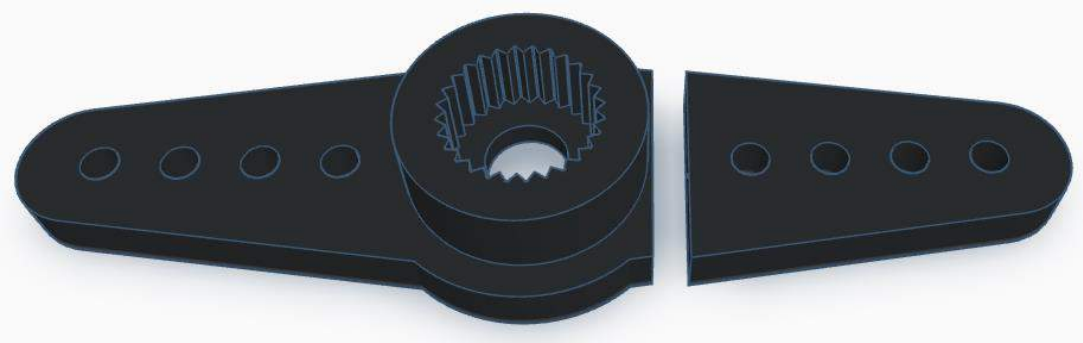


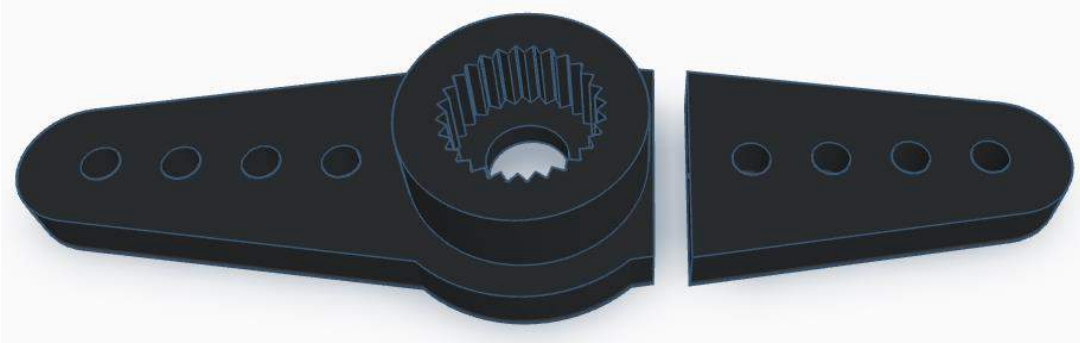


EYE SERVOS WILL MOVE TO 90 DEGREE POSITION









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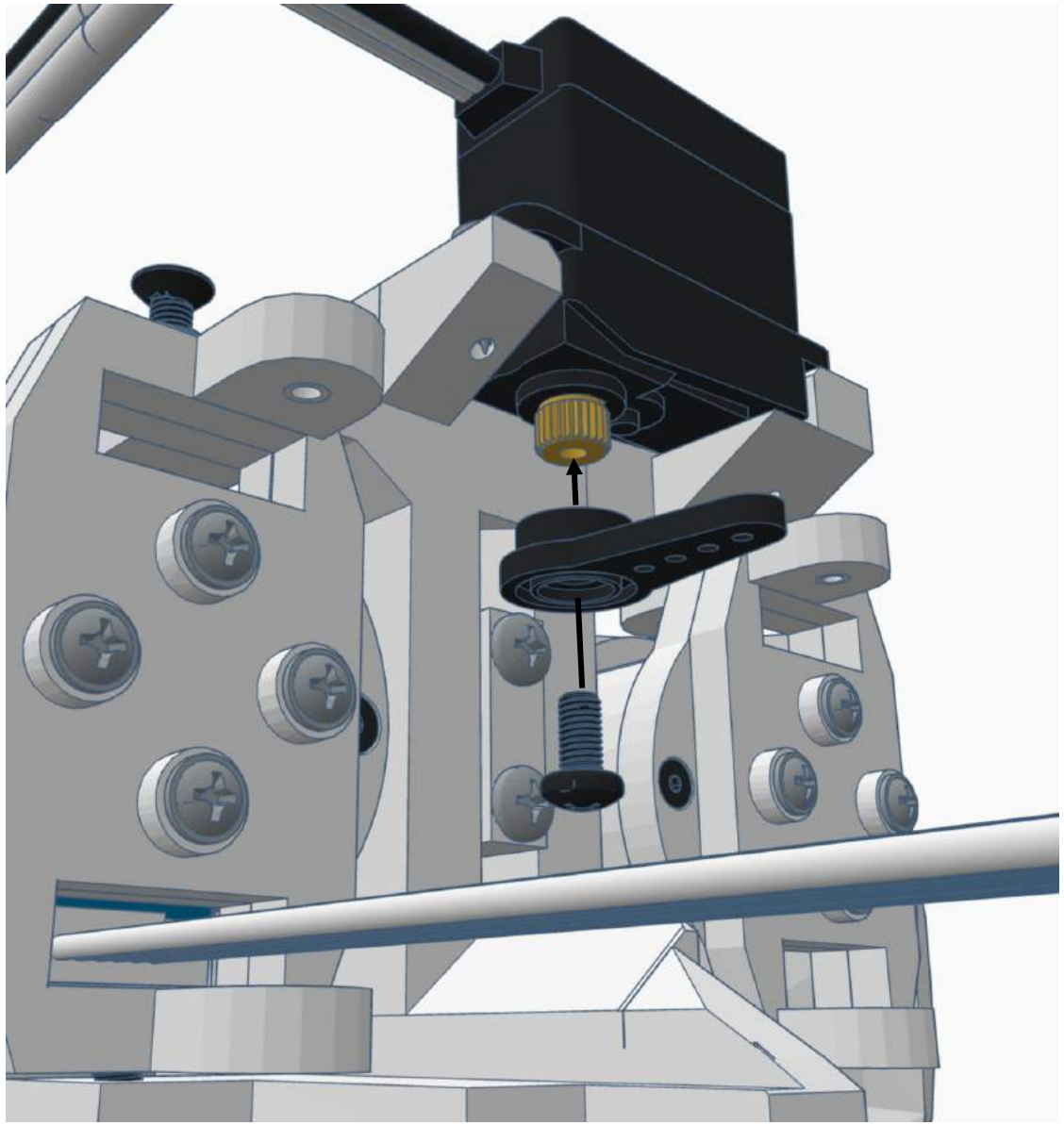

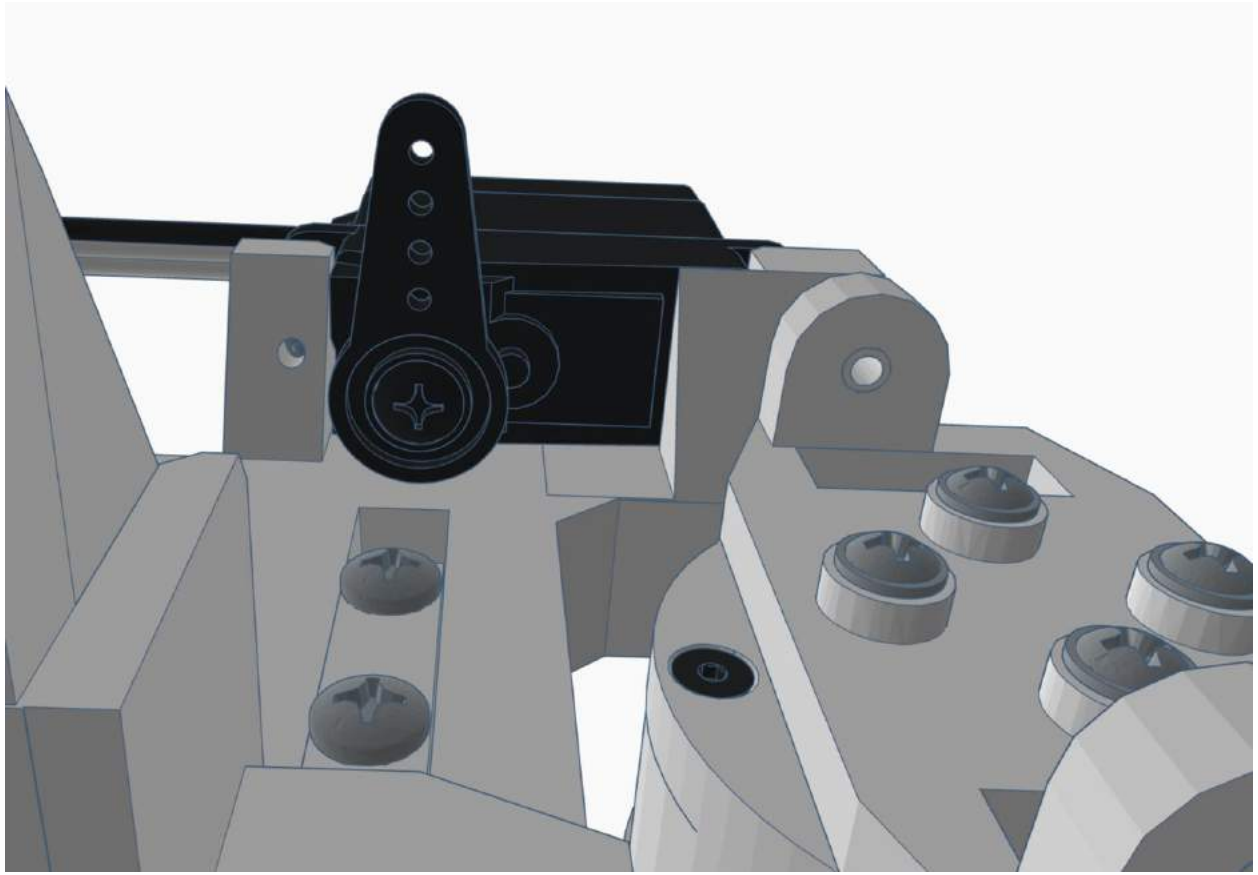

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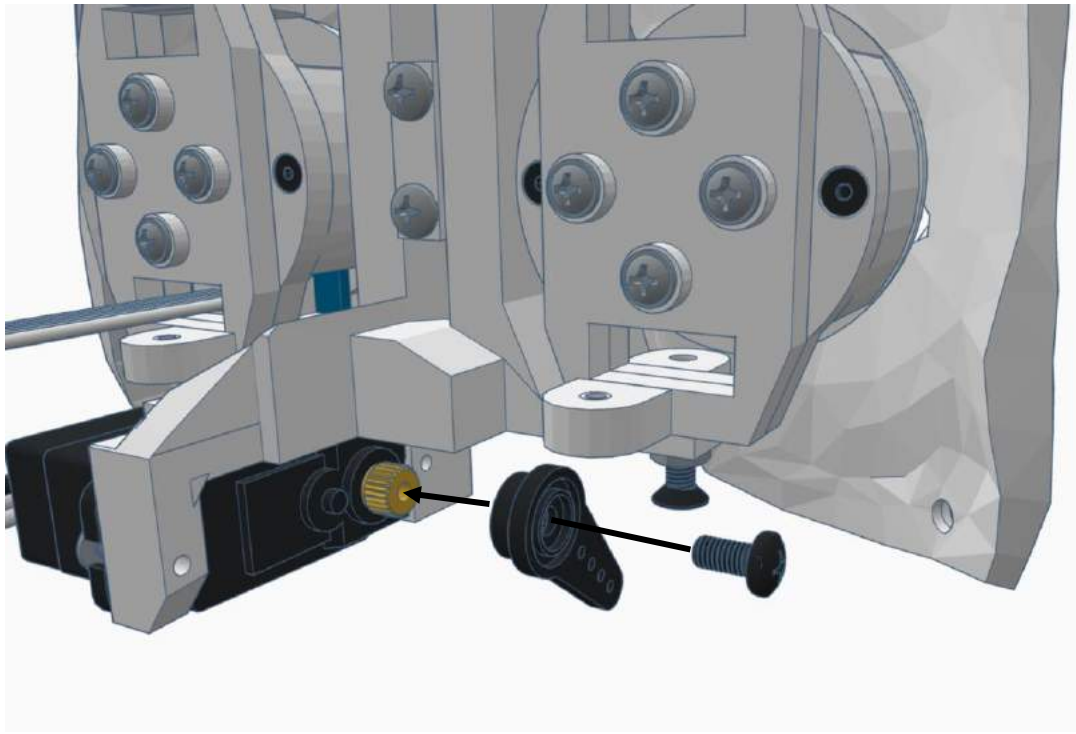

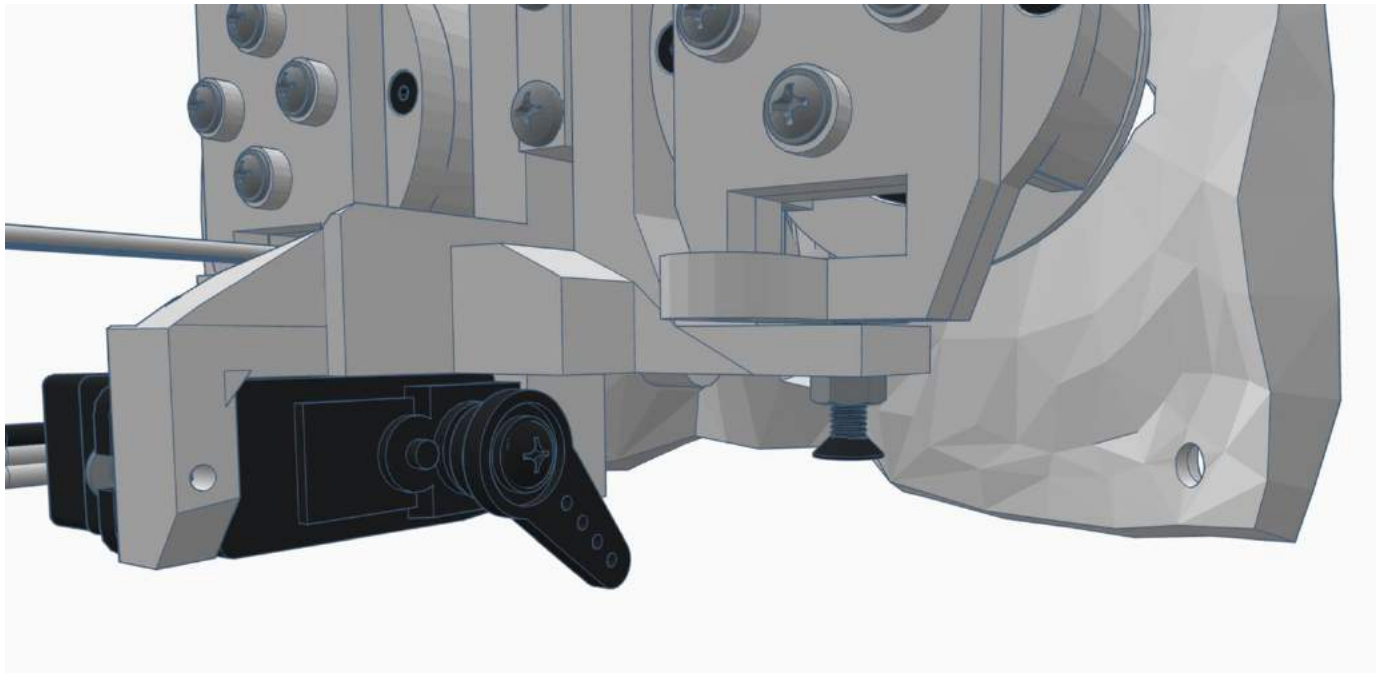

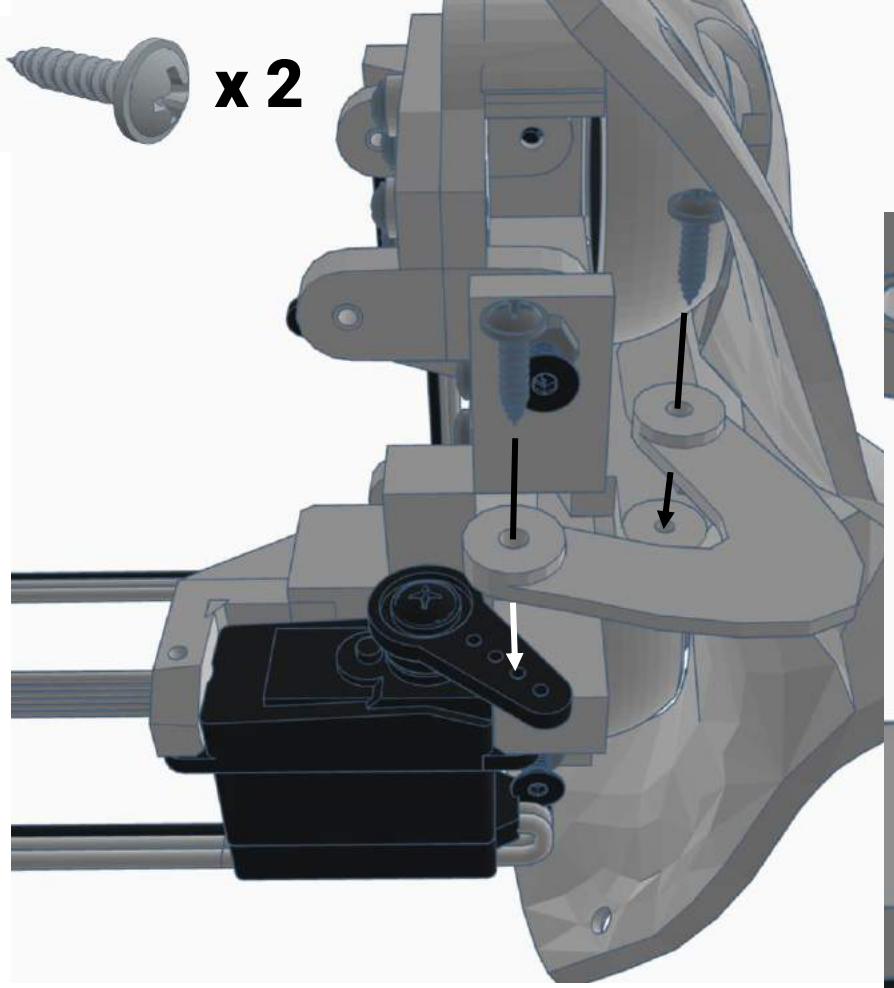
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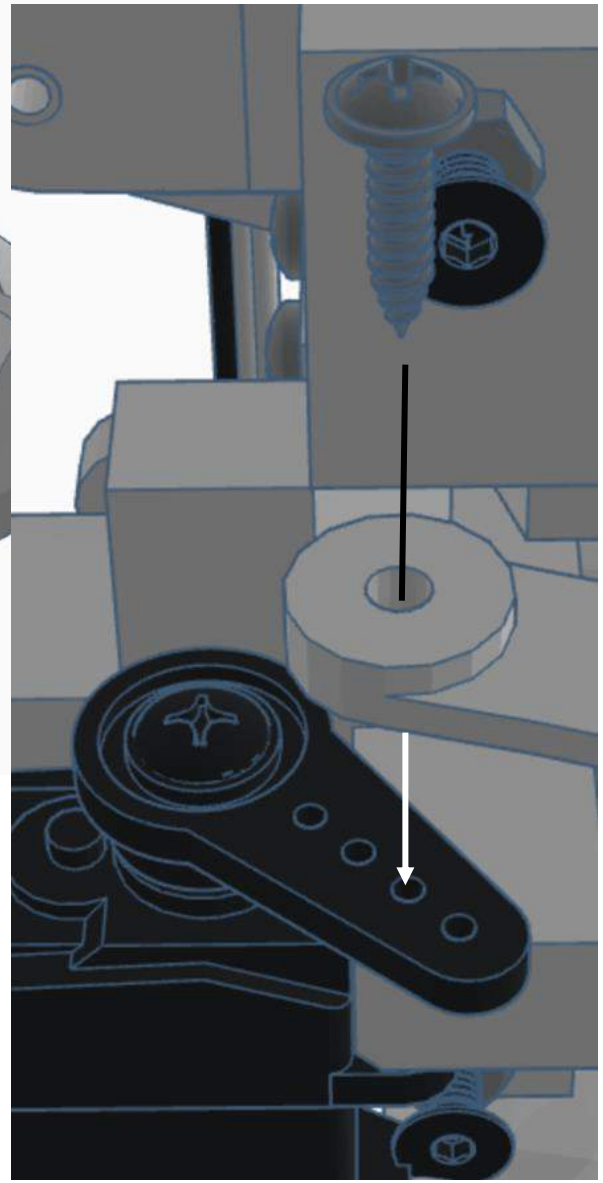

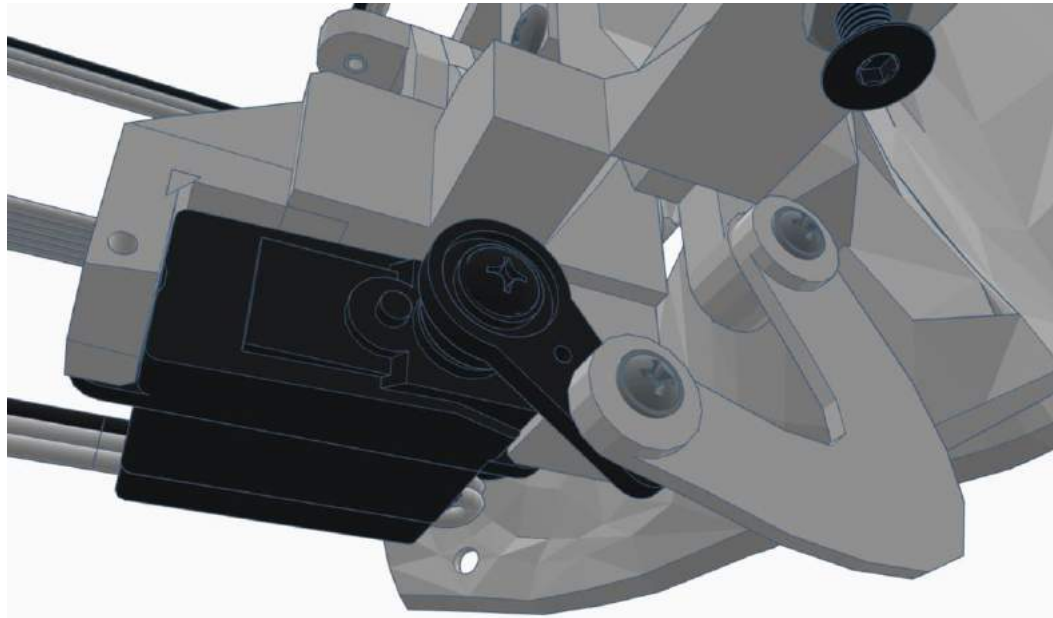

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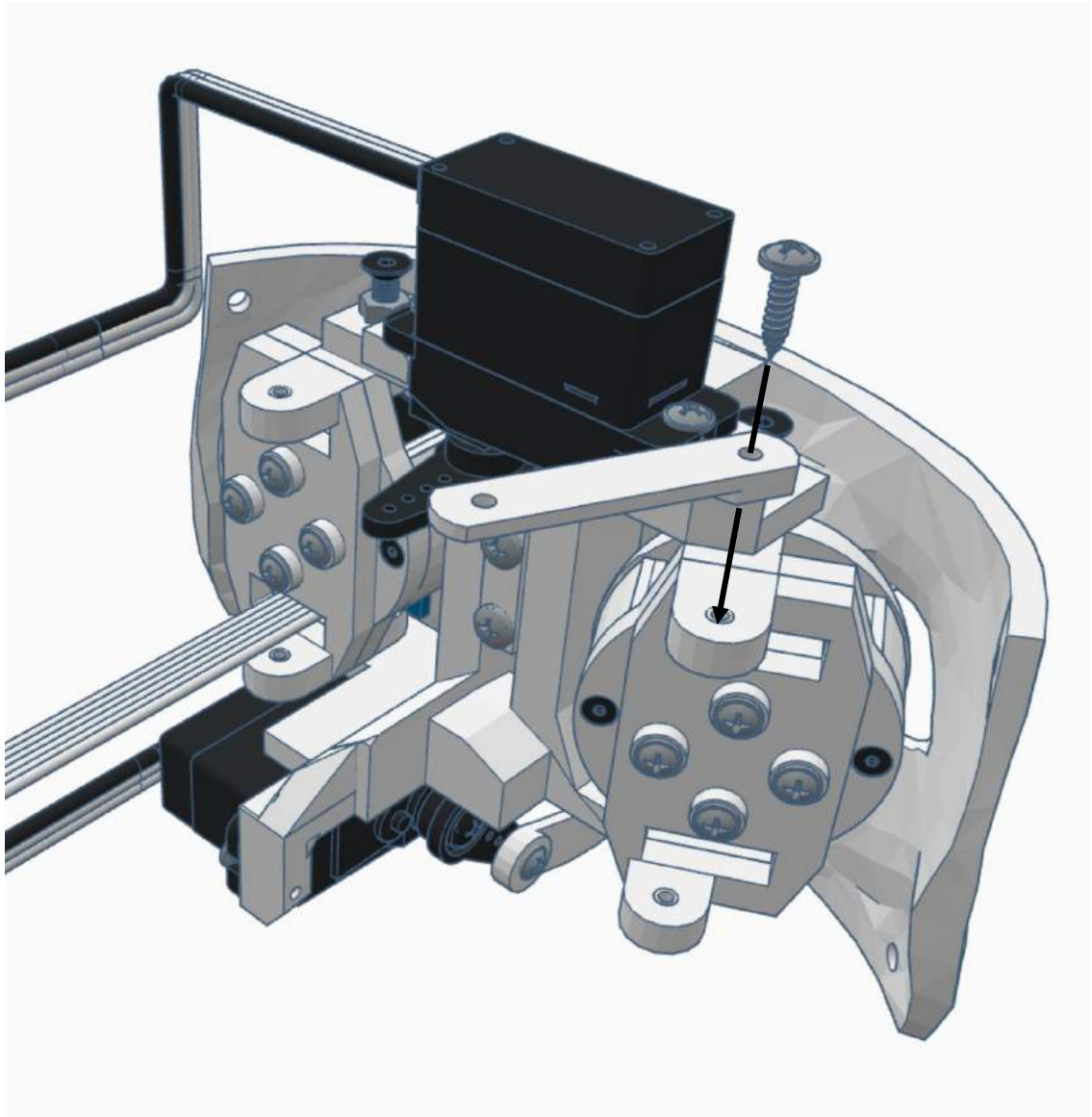

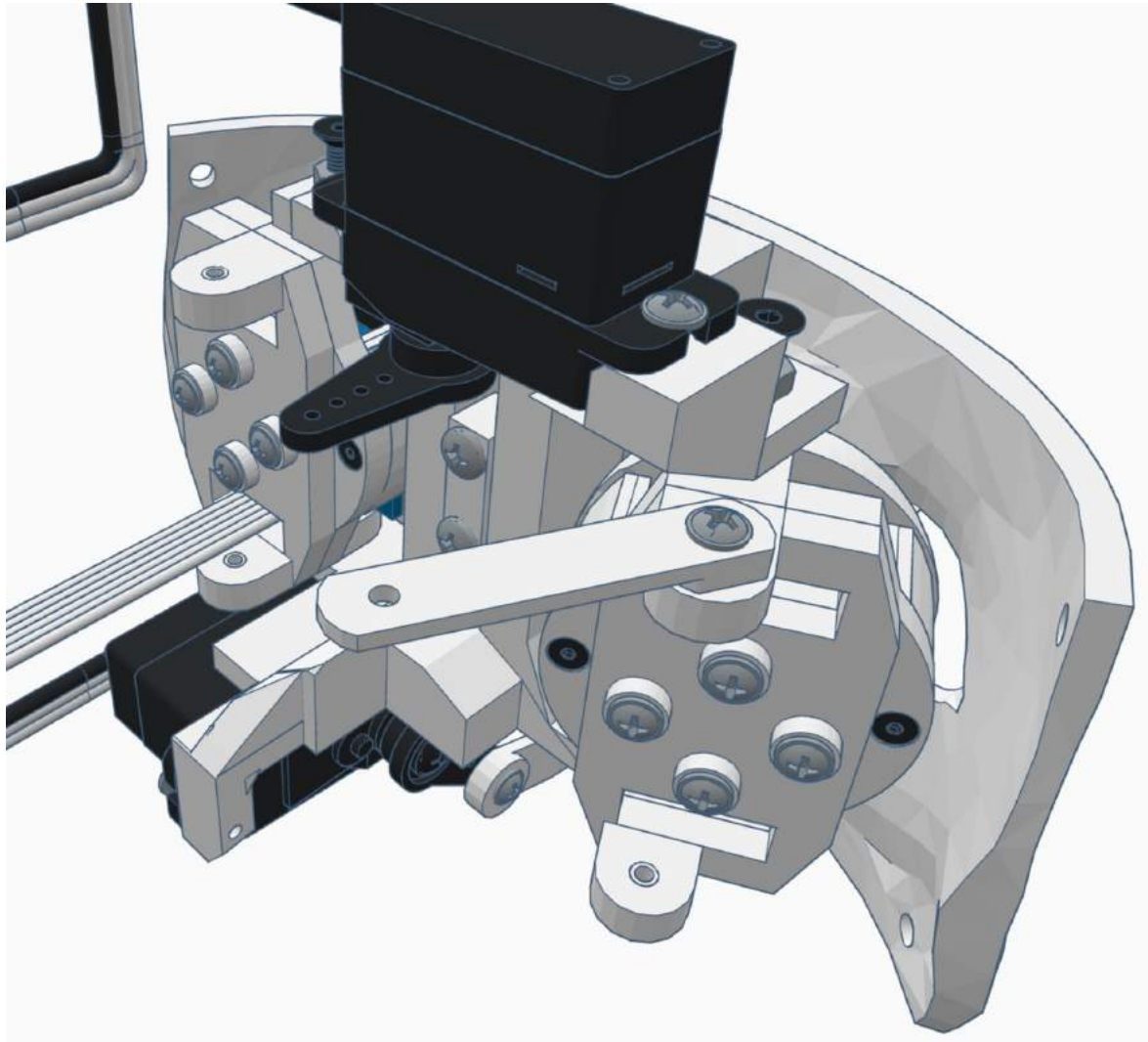

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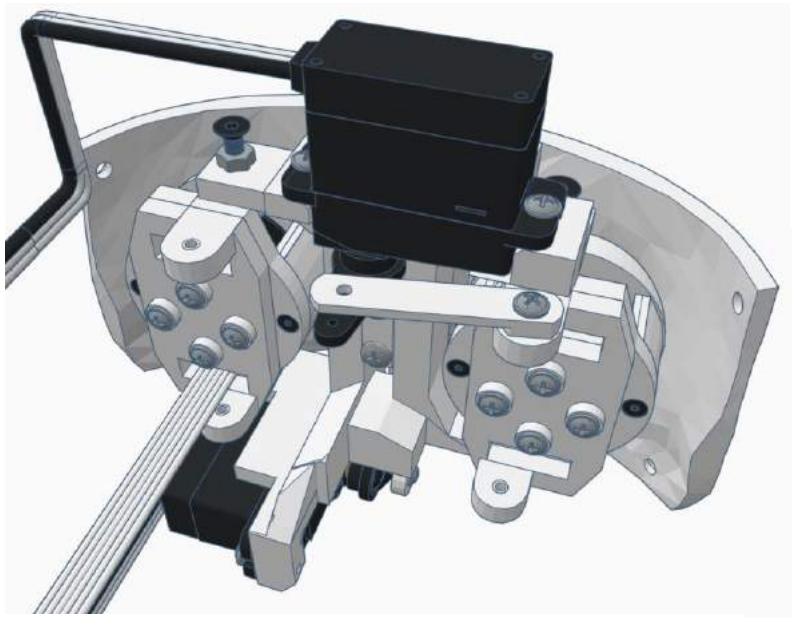

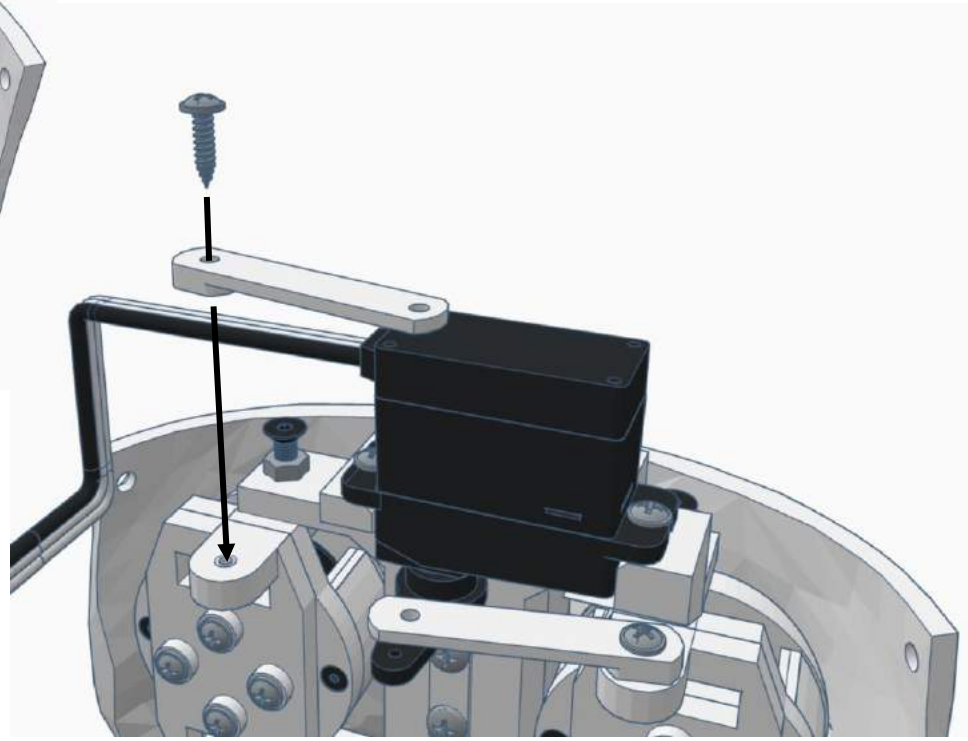

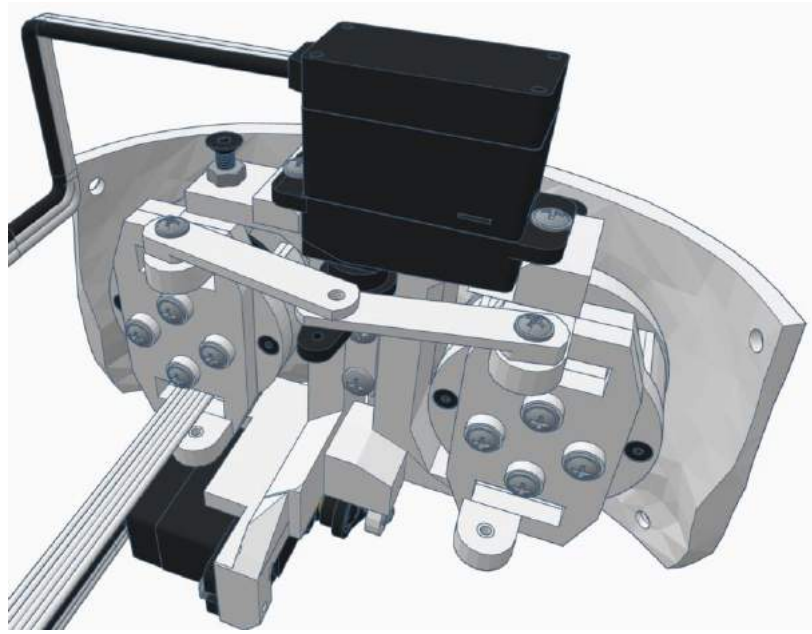

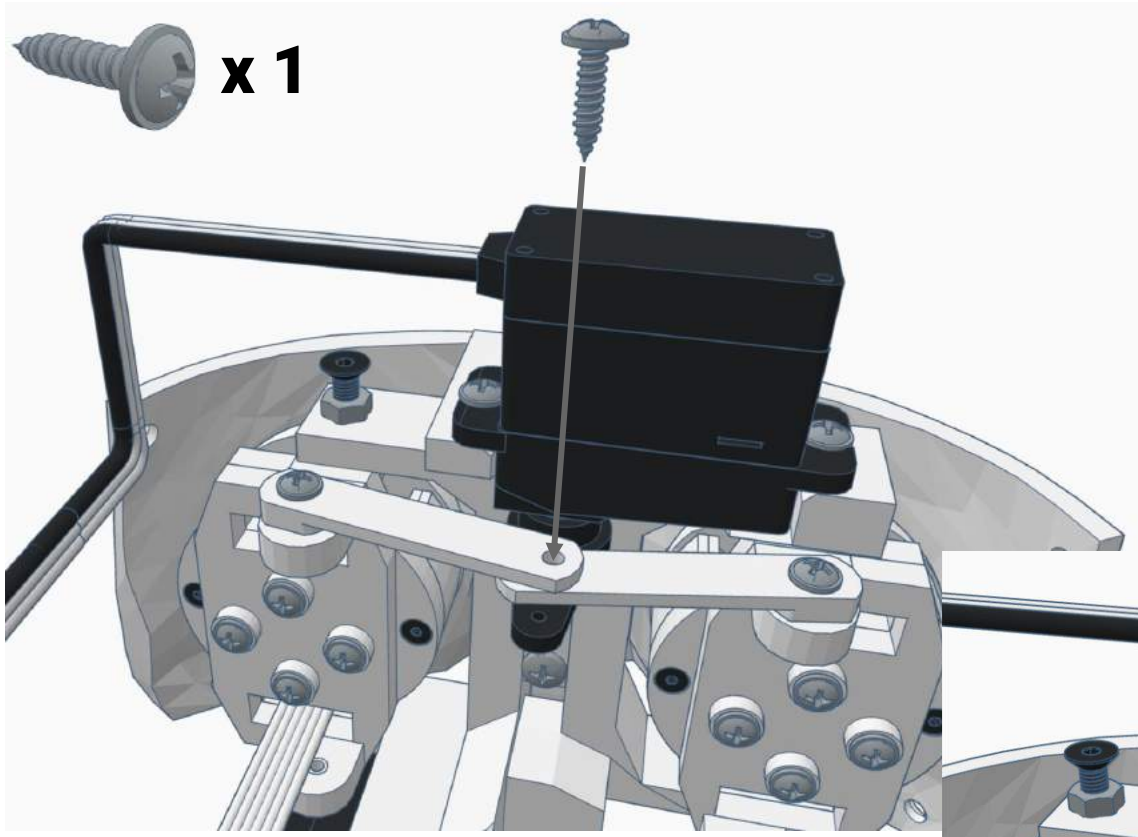
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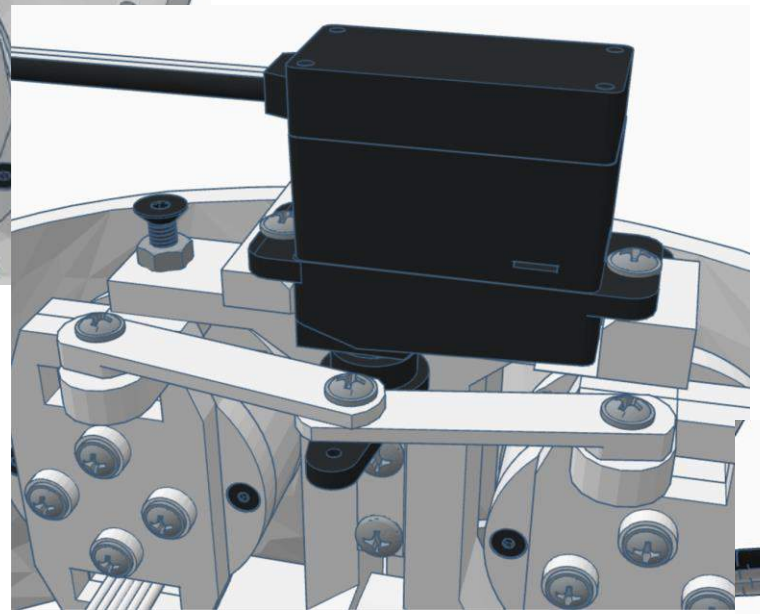

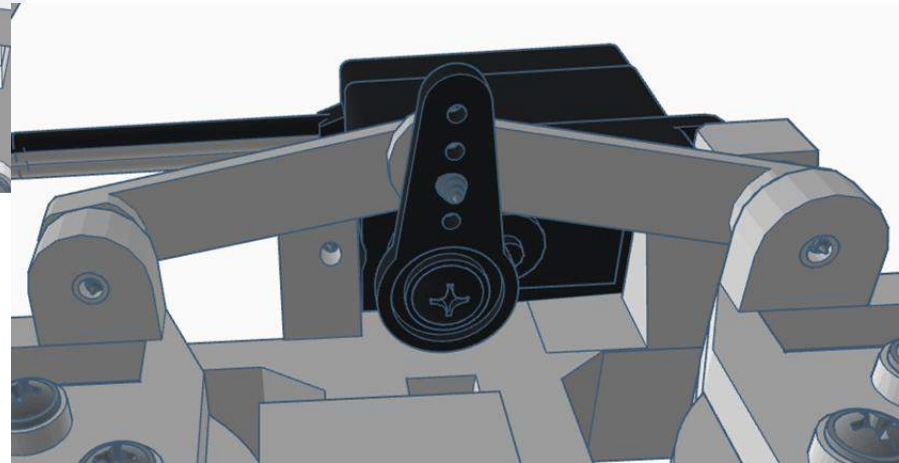

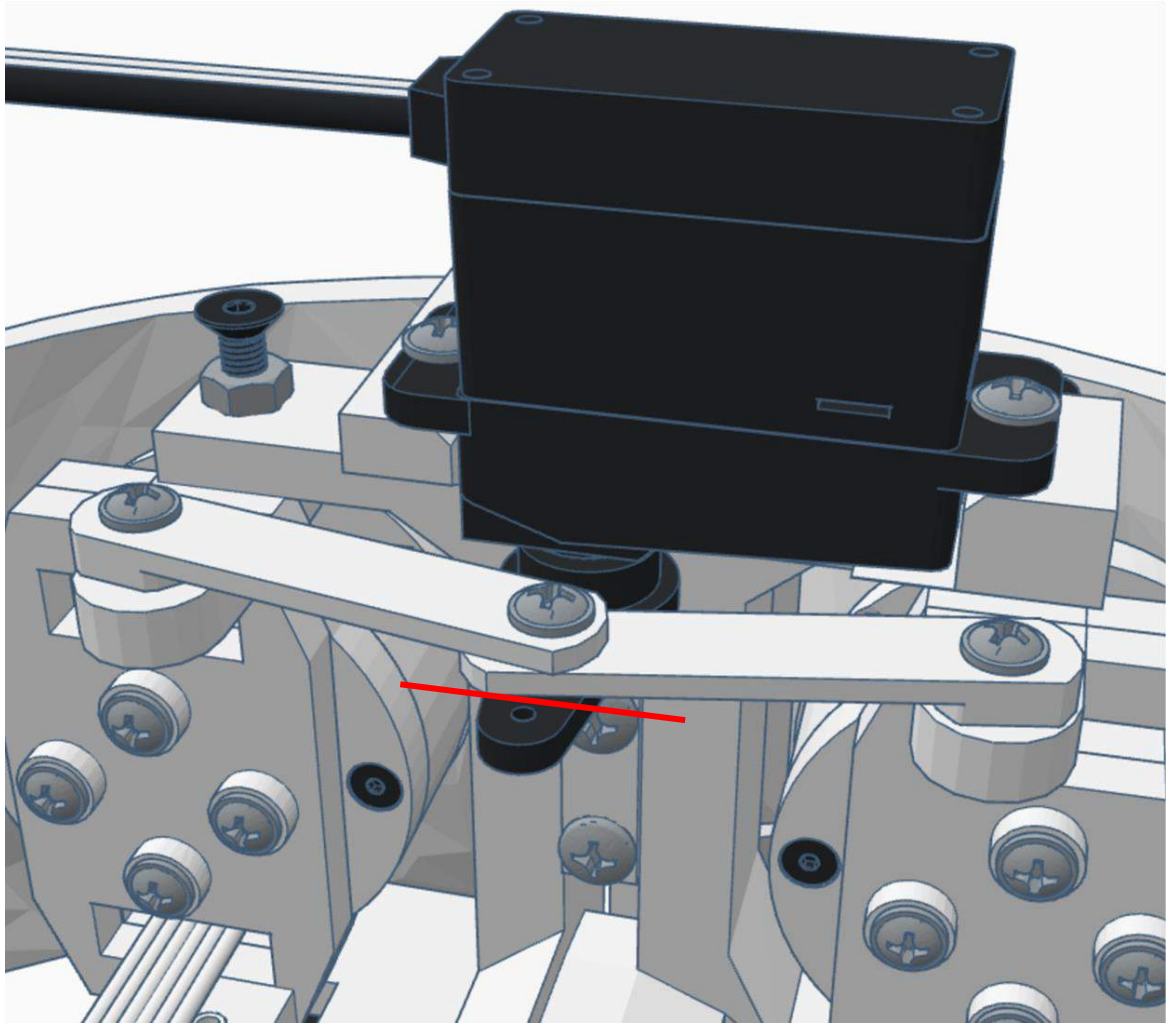

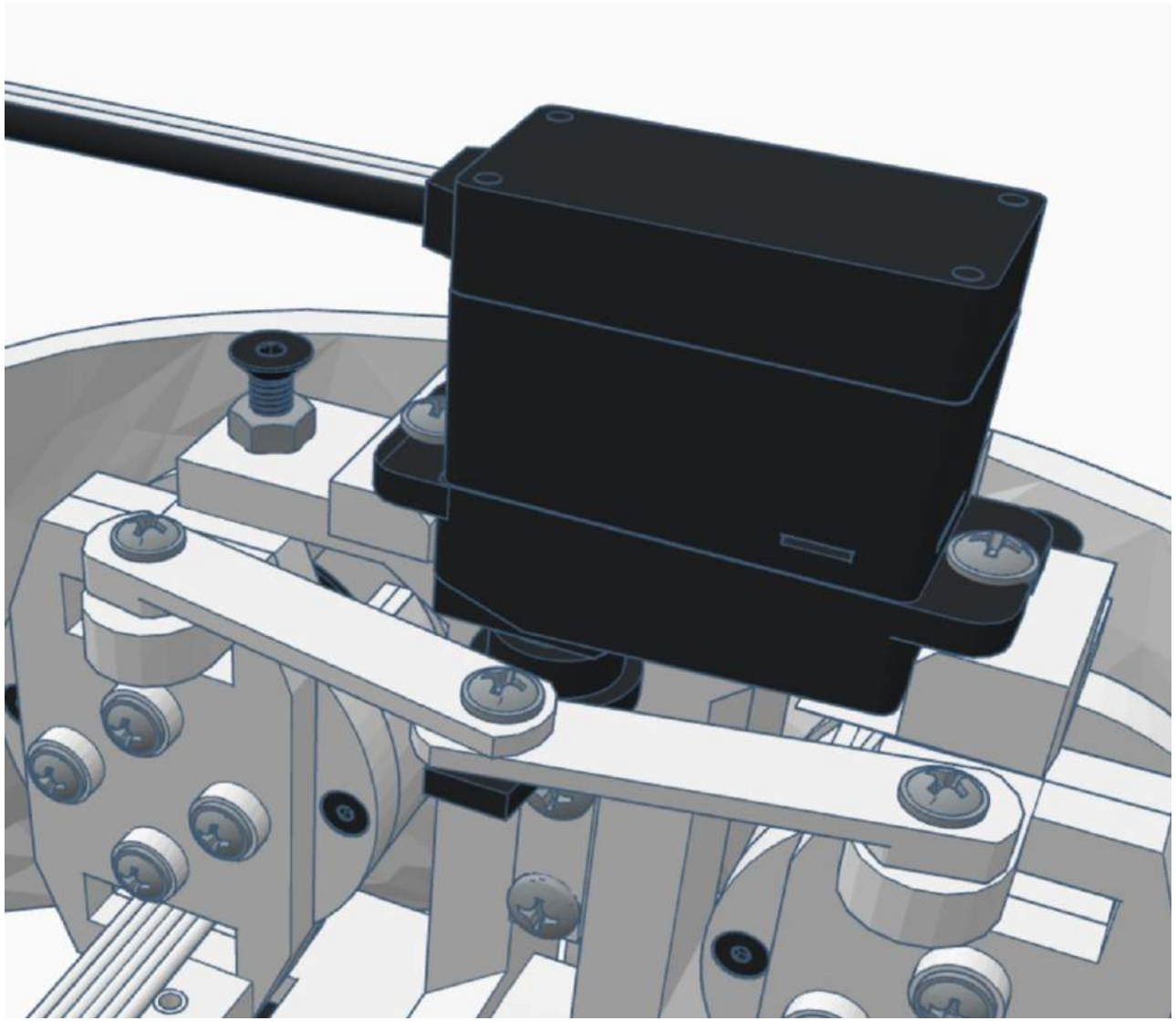

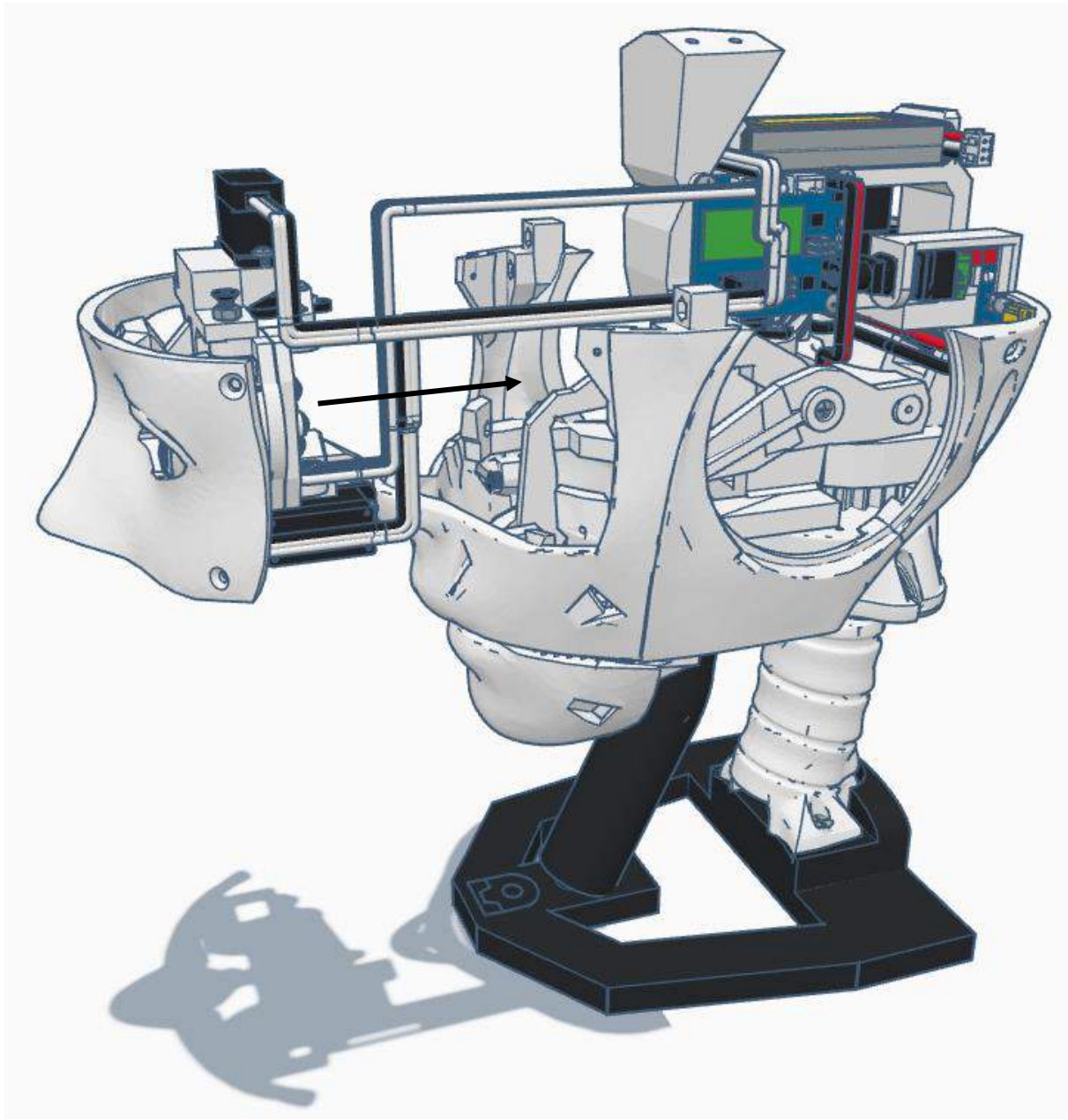

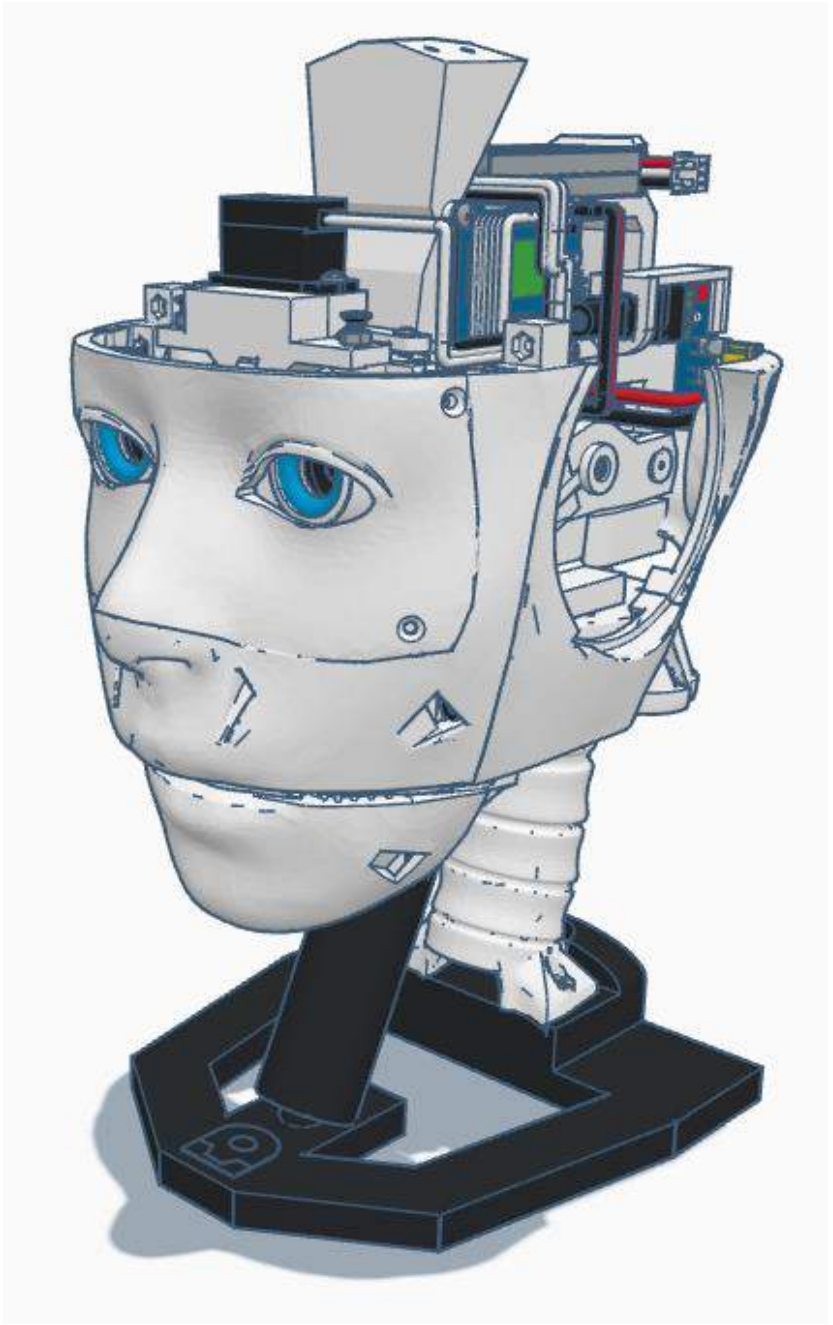

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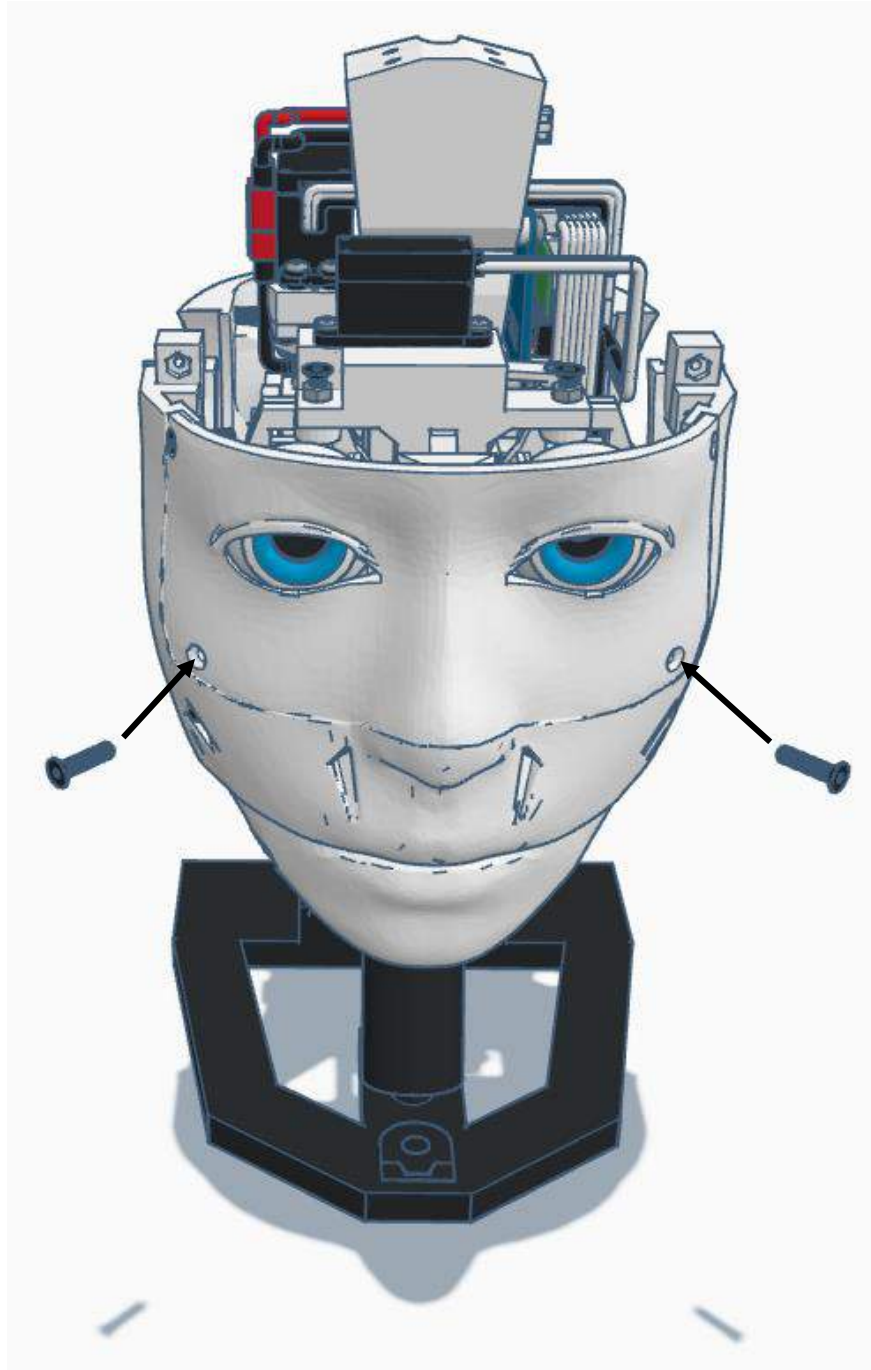

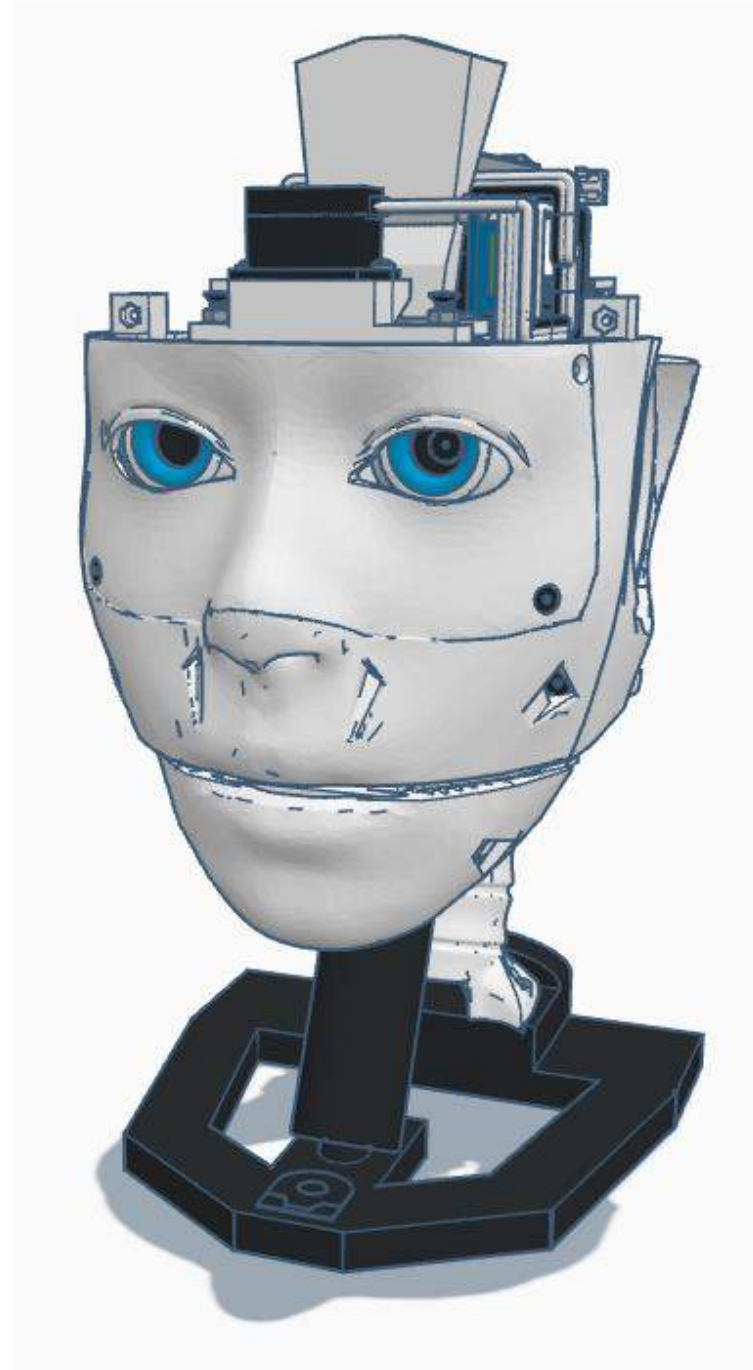

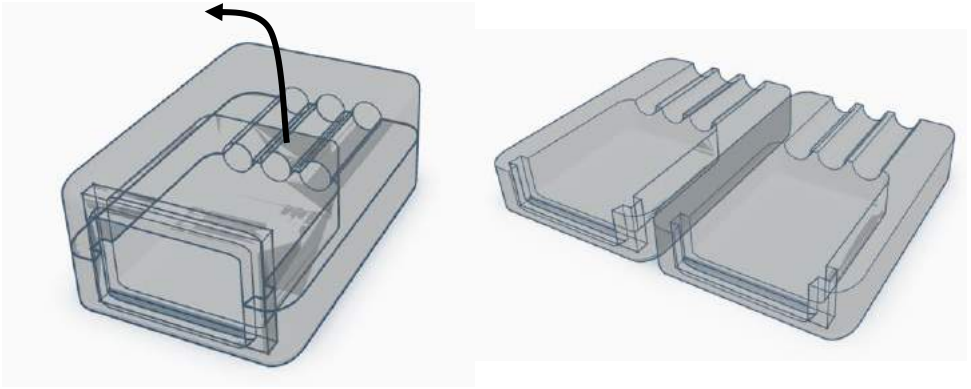

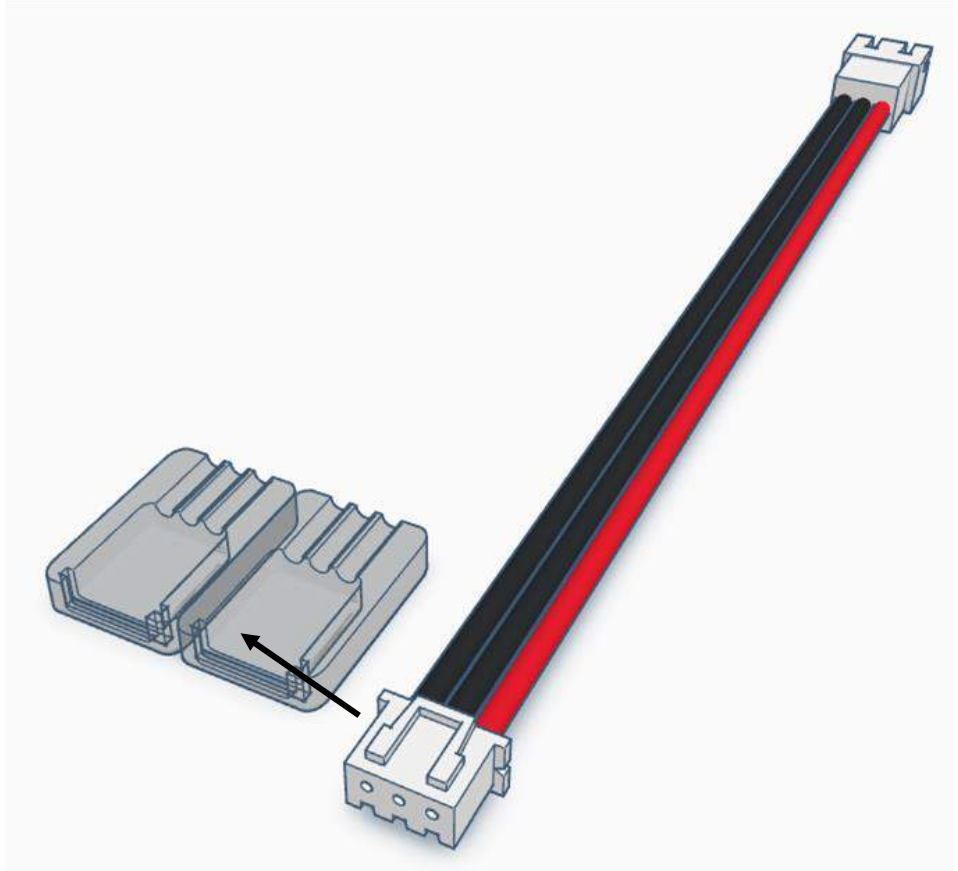

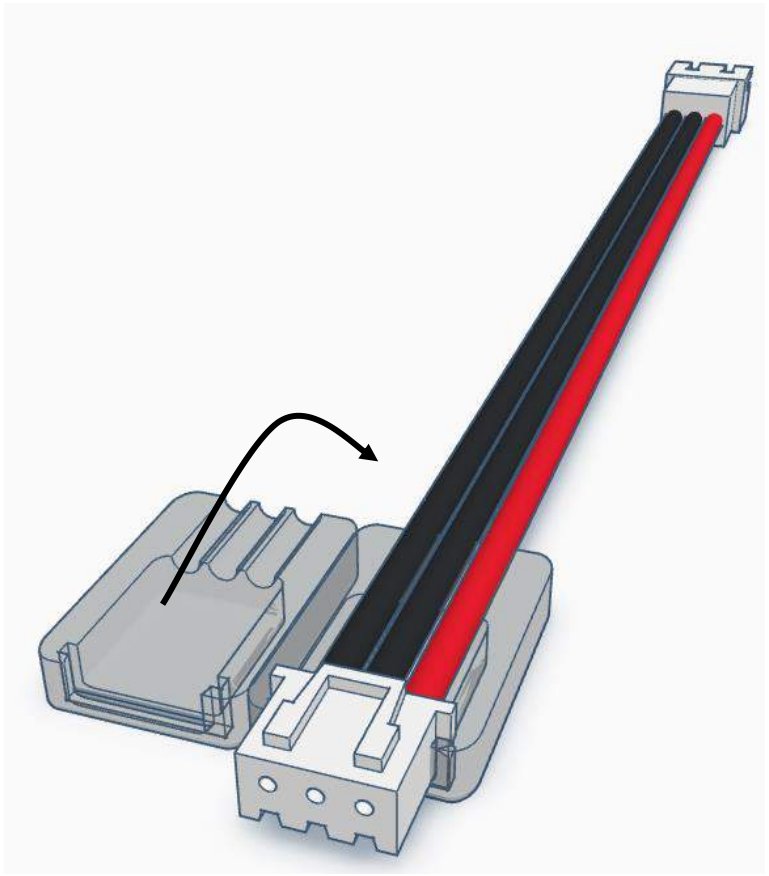

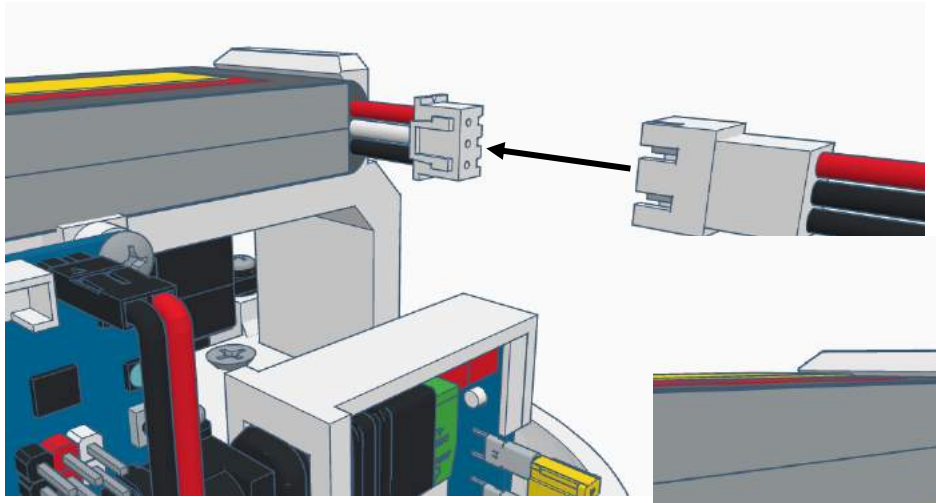

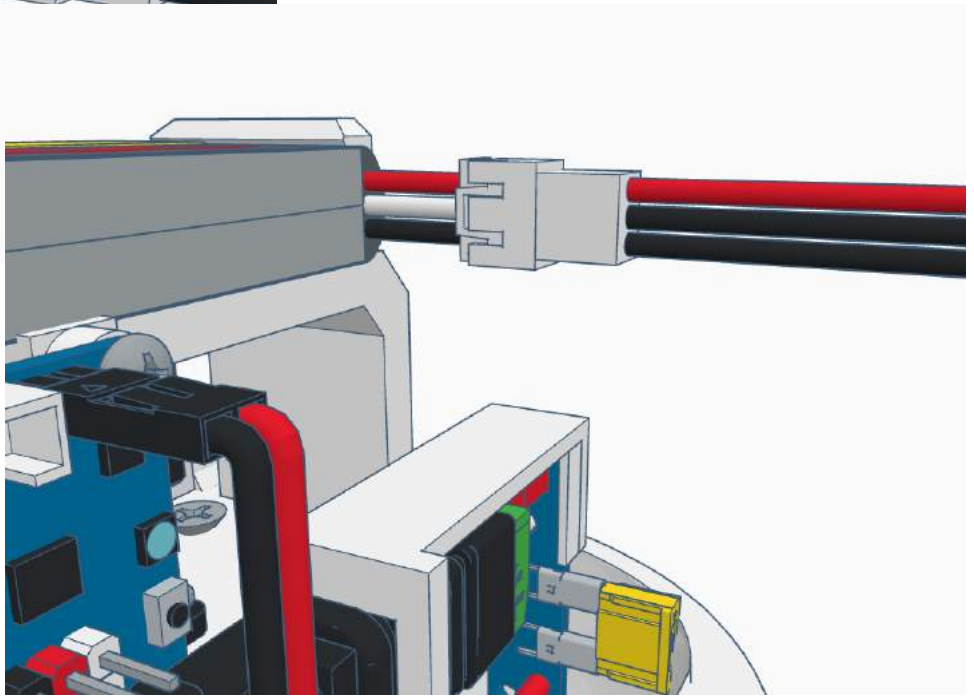

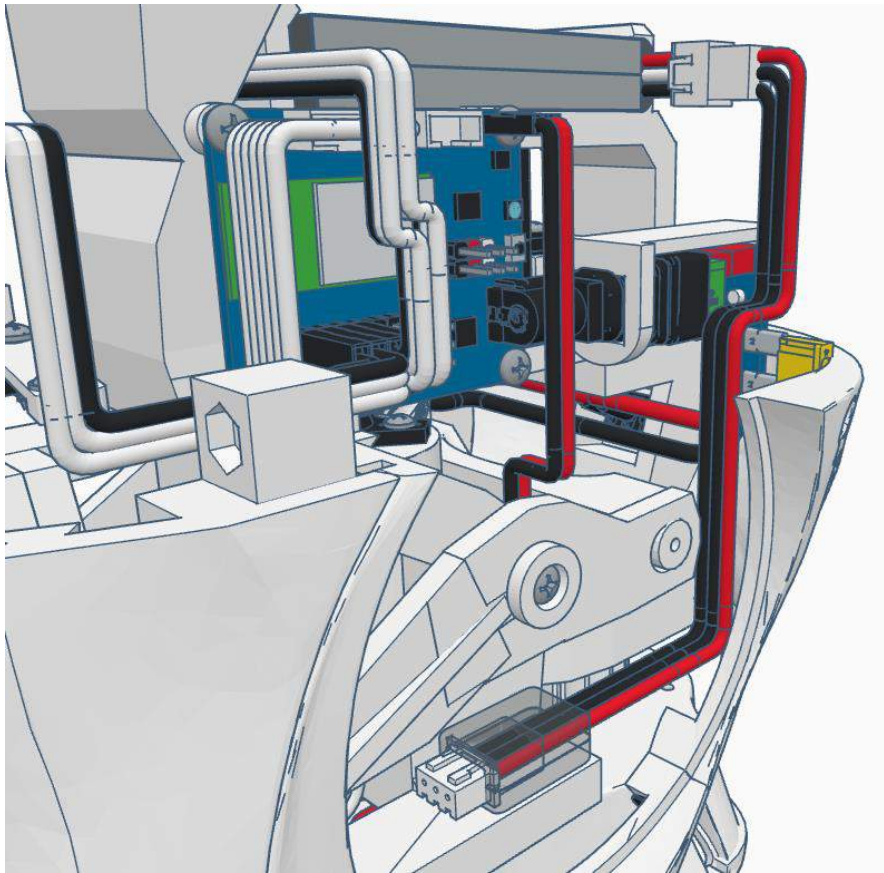

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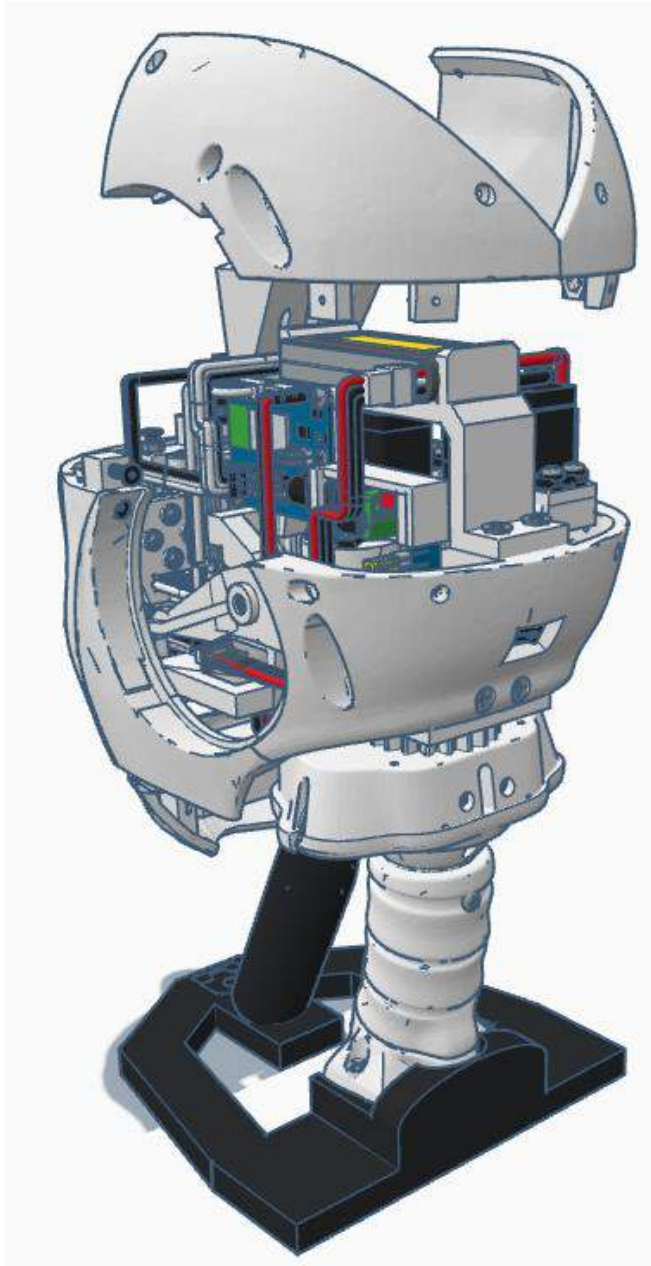

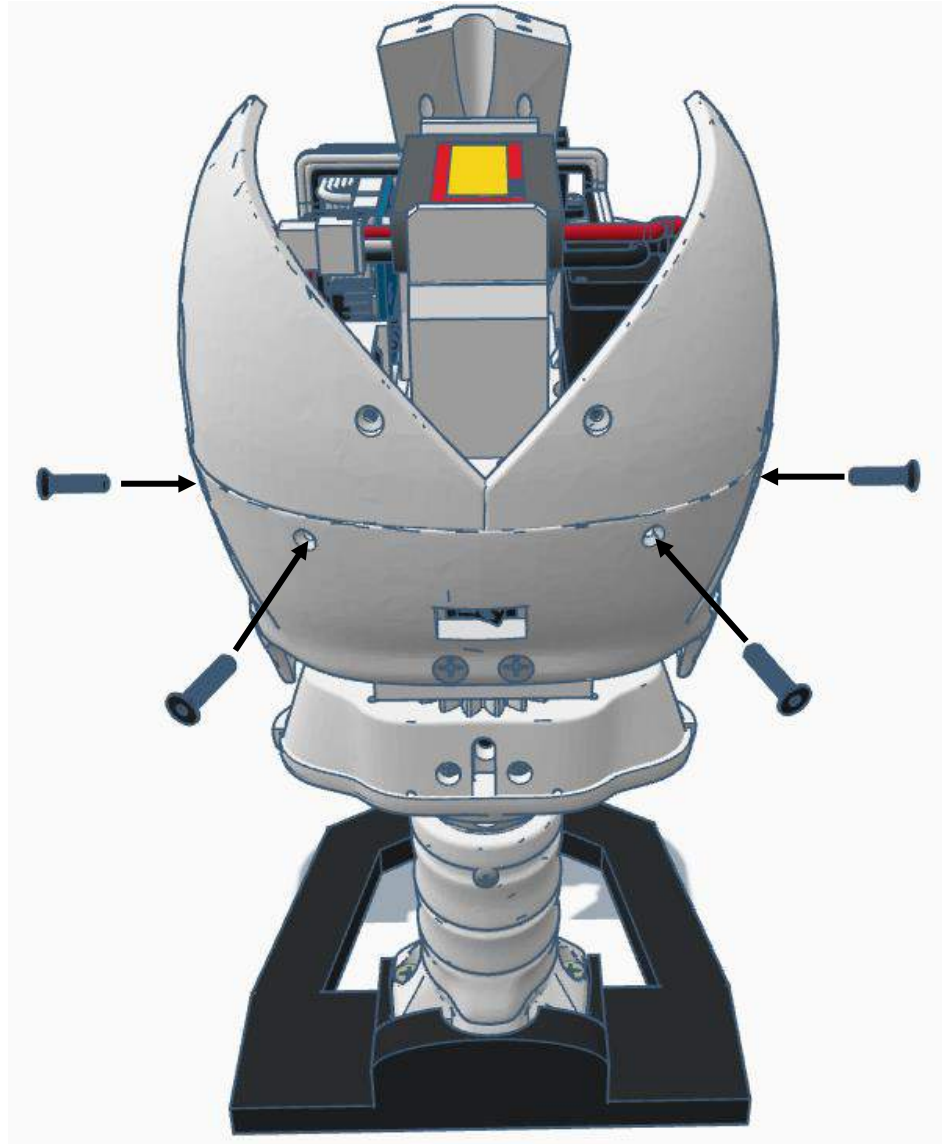

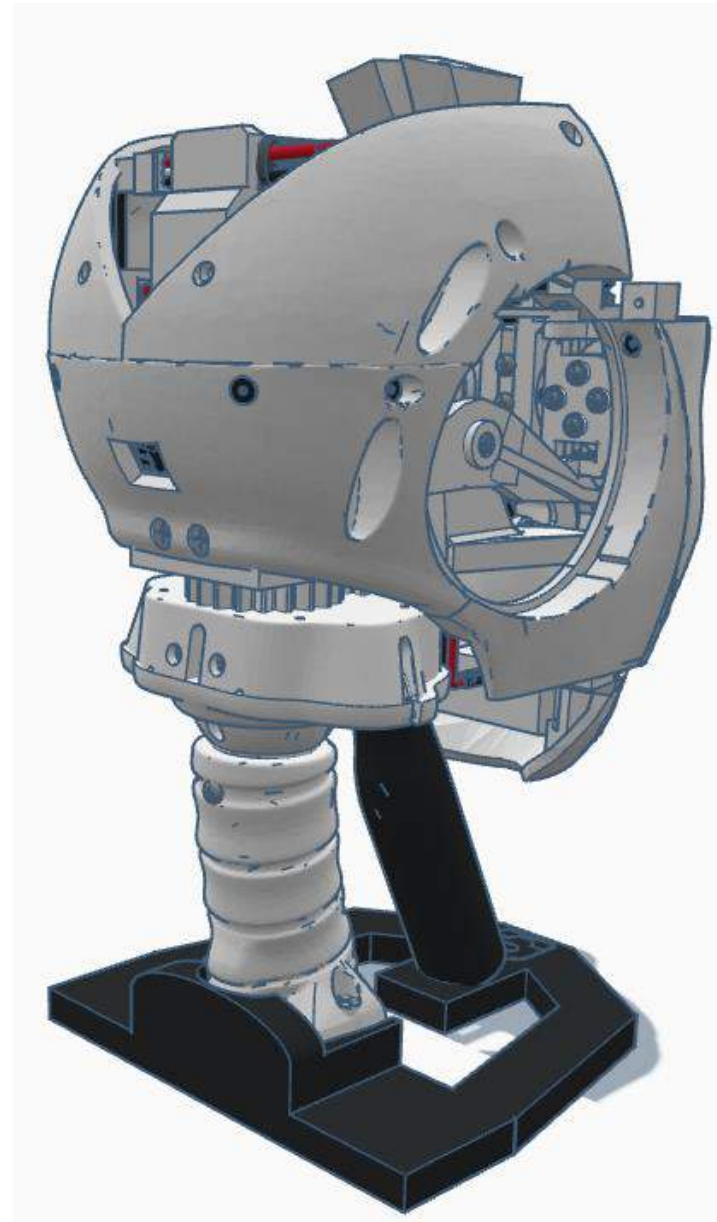

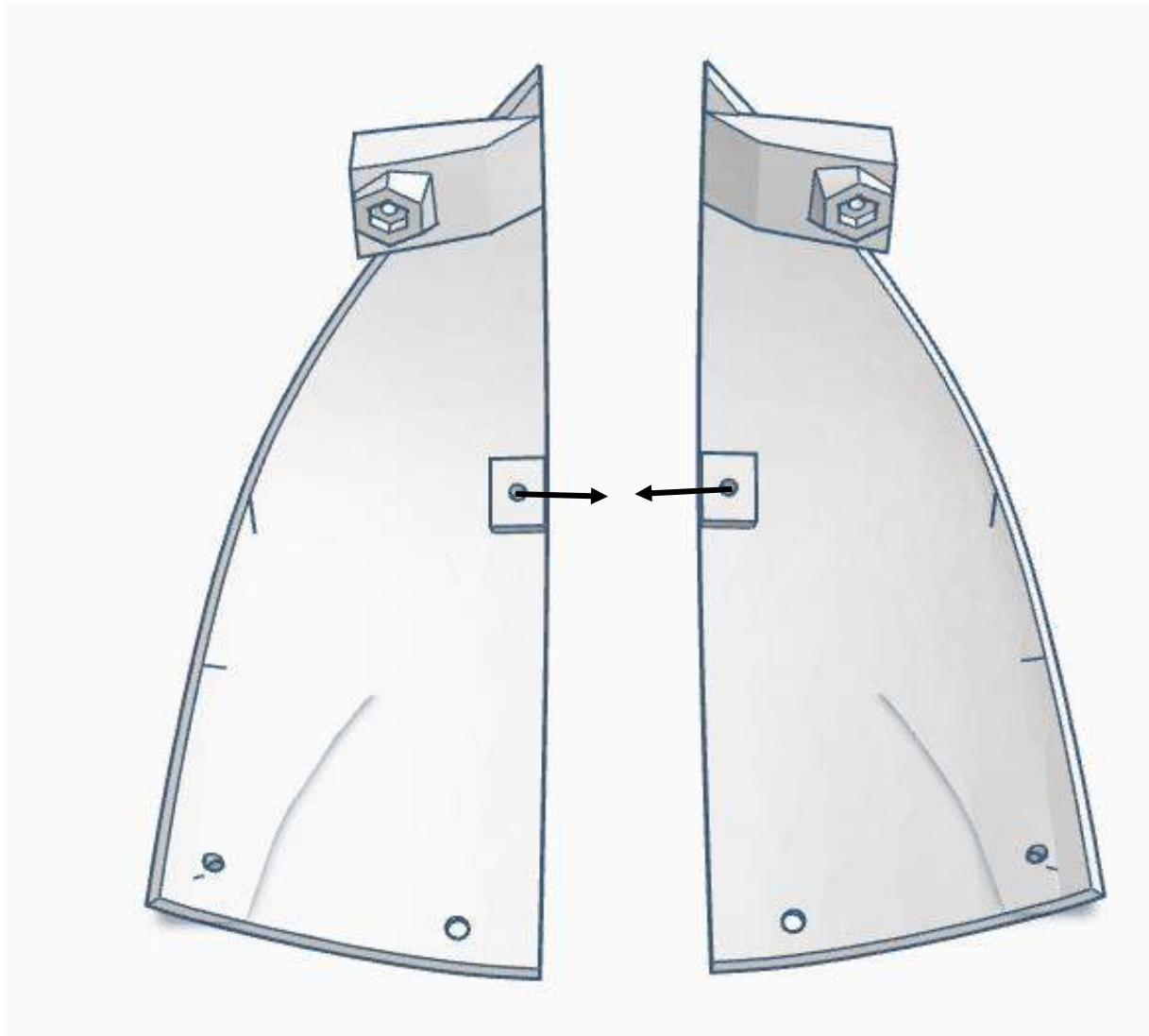

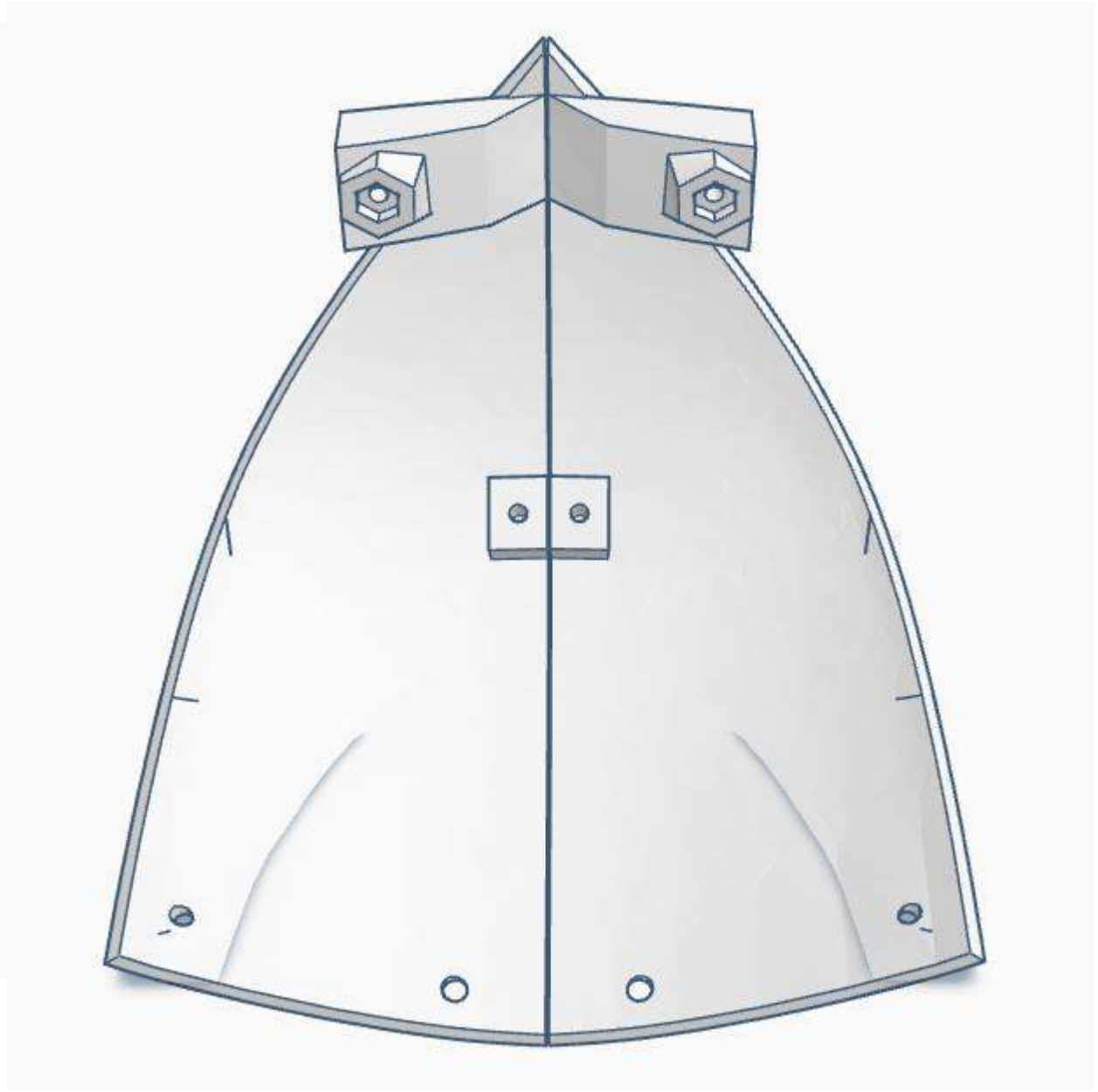

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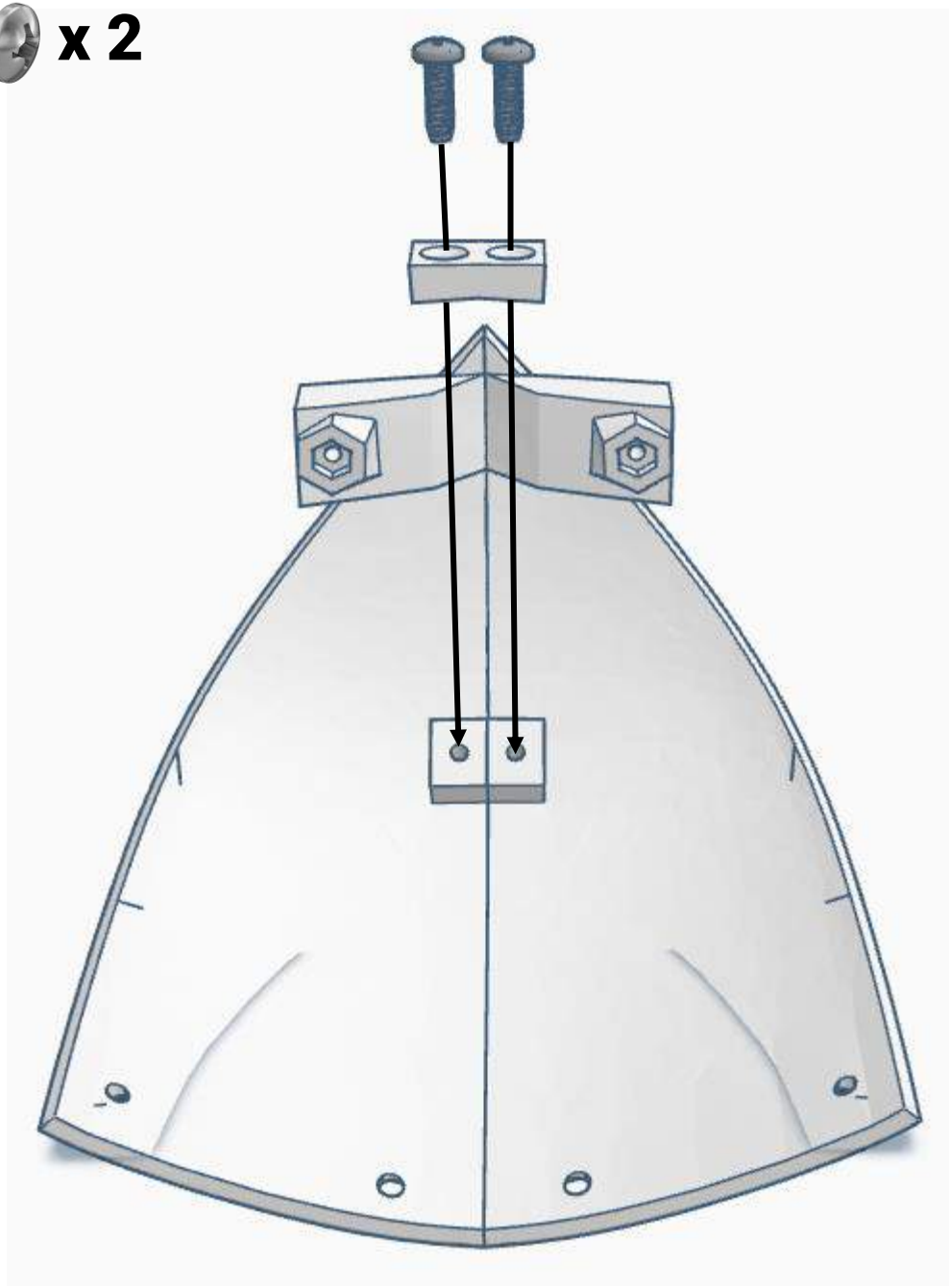

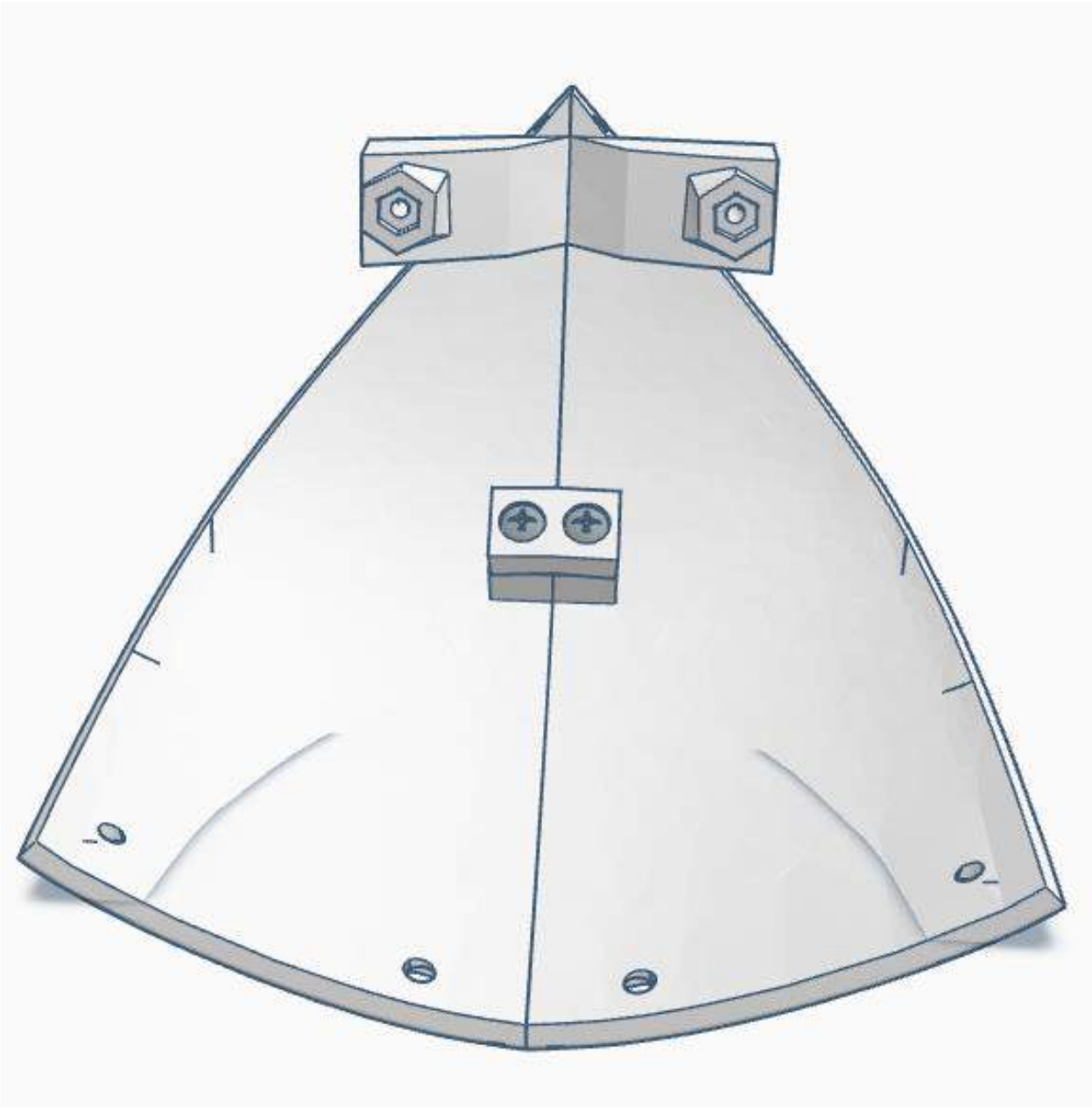

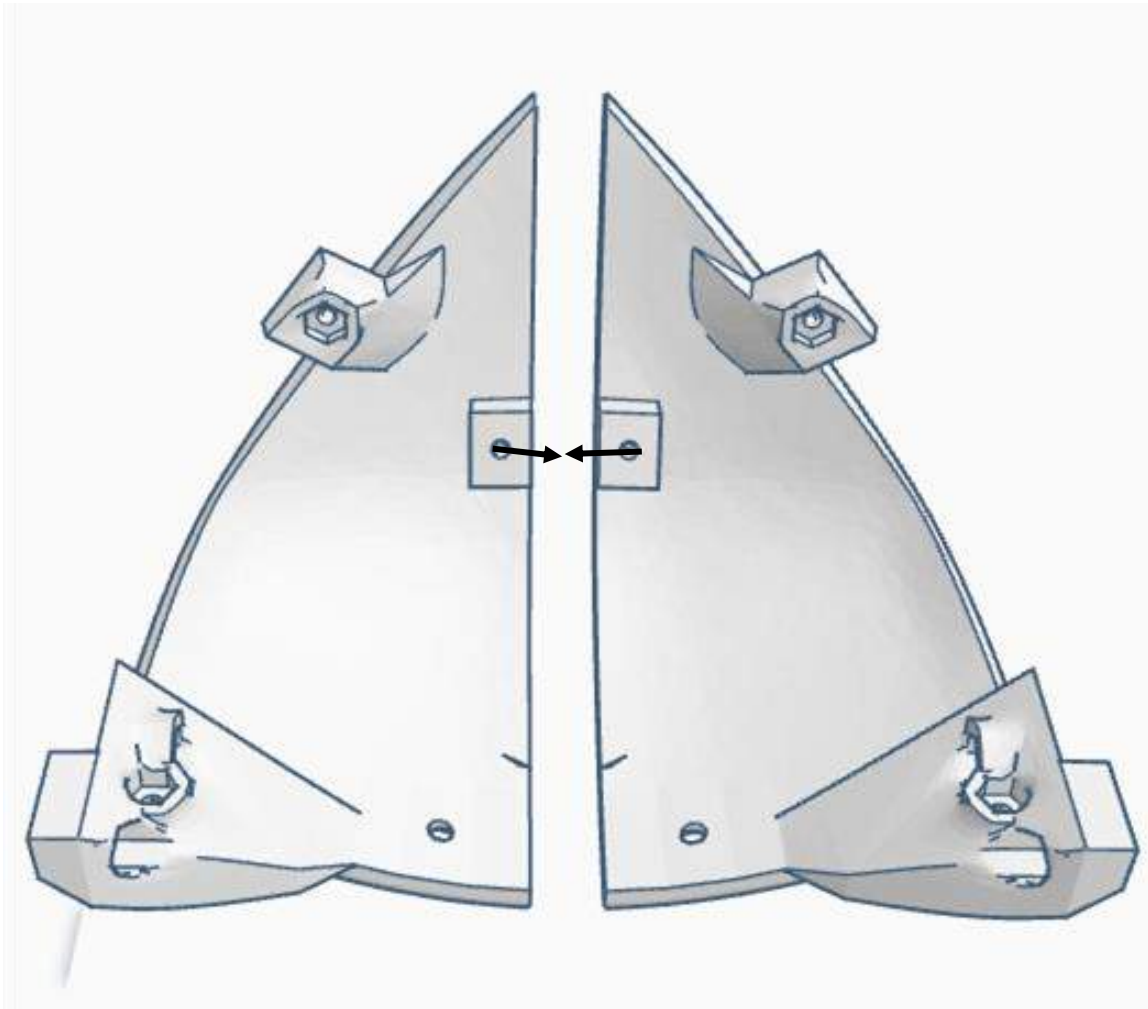

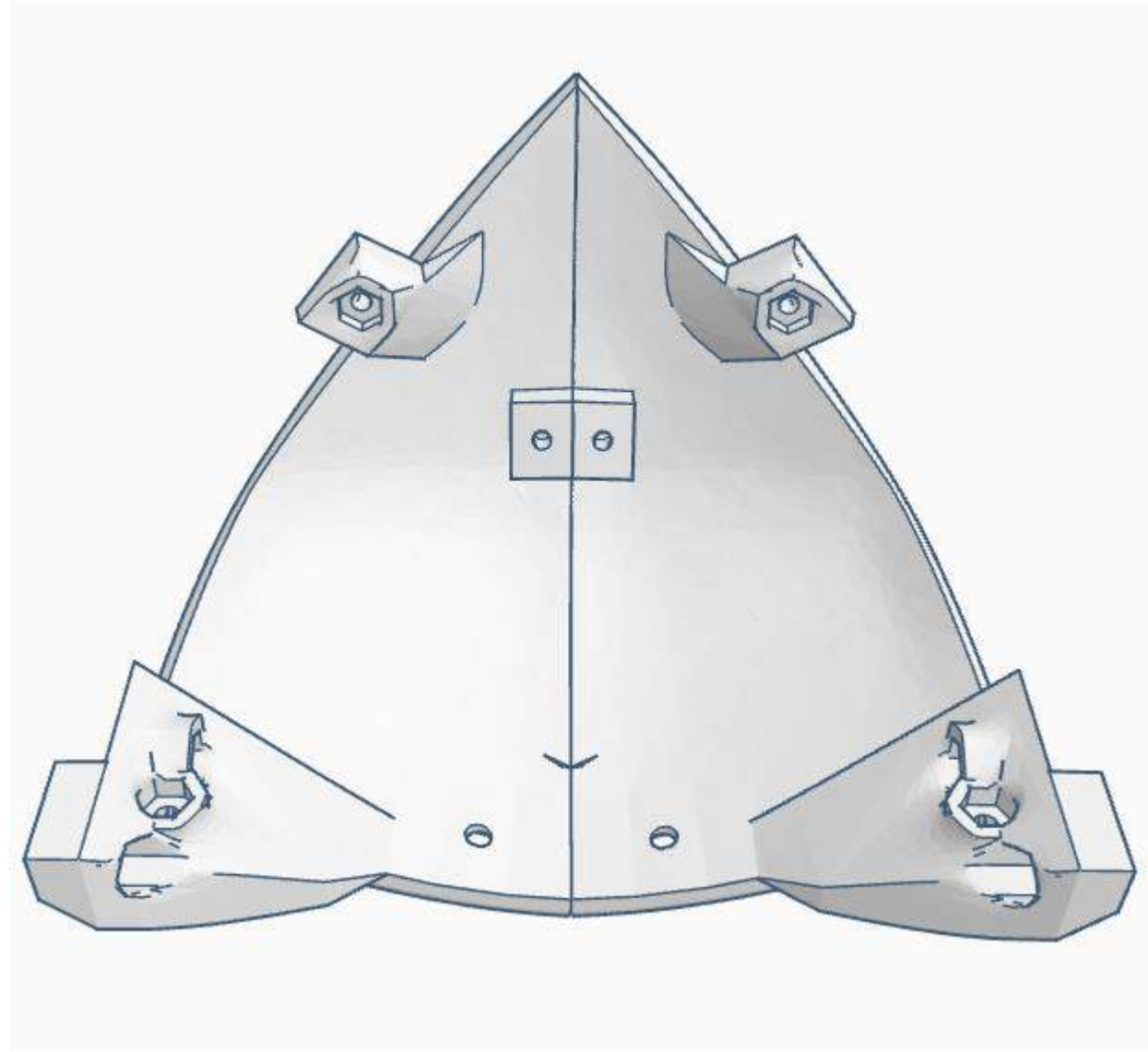

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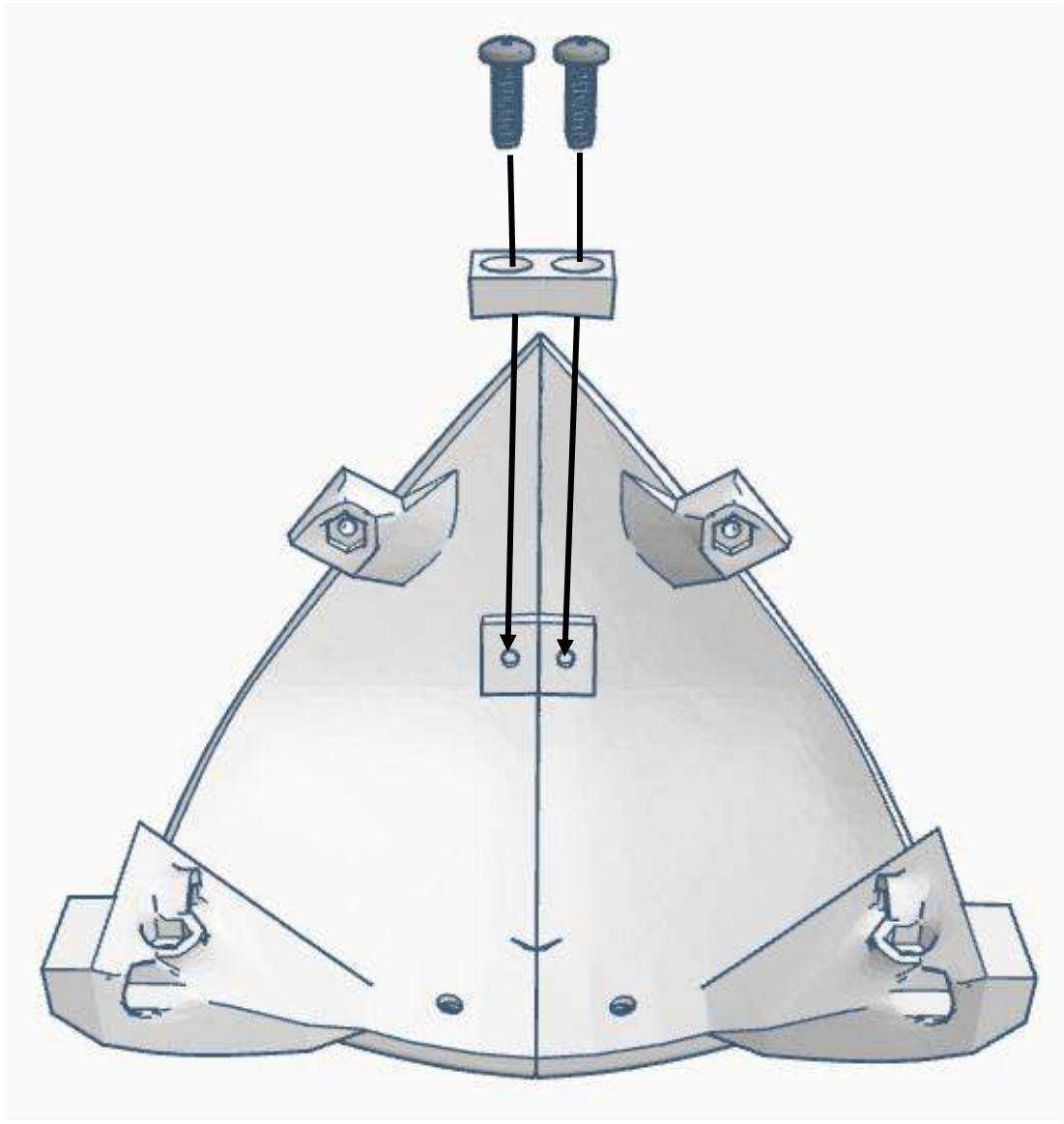

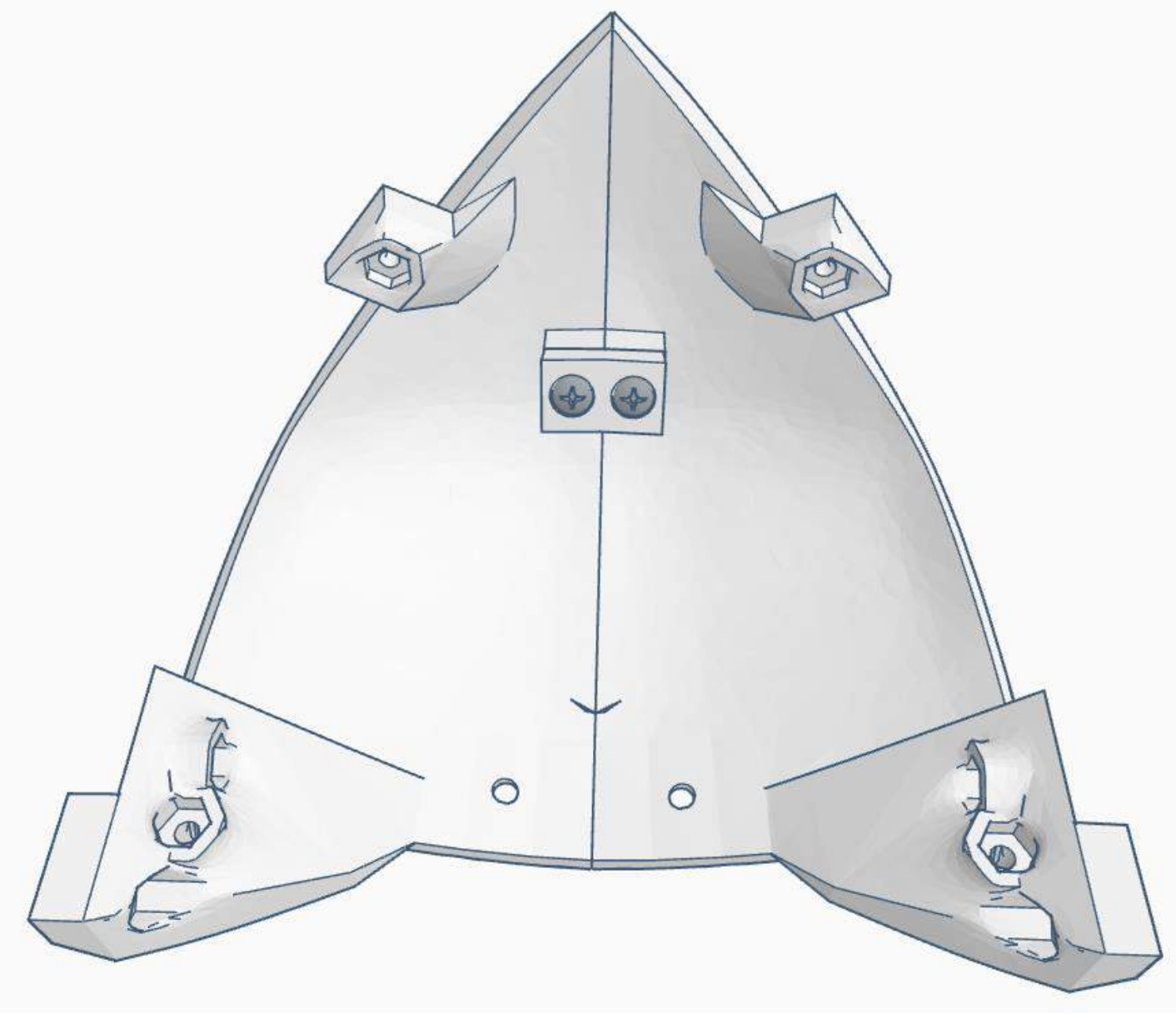

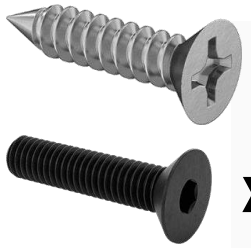

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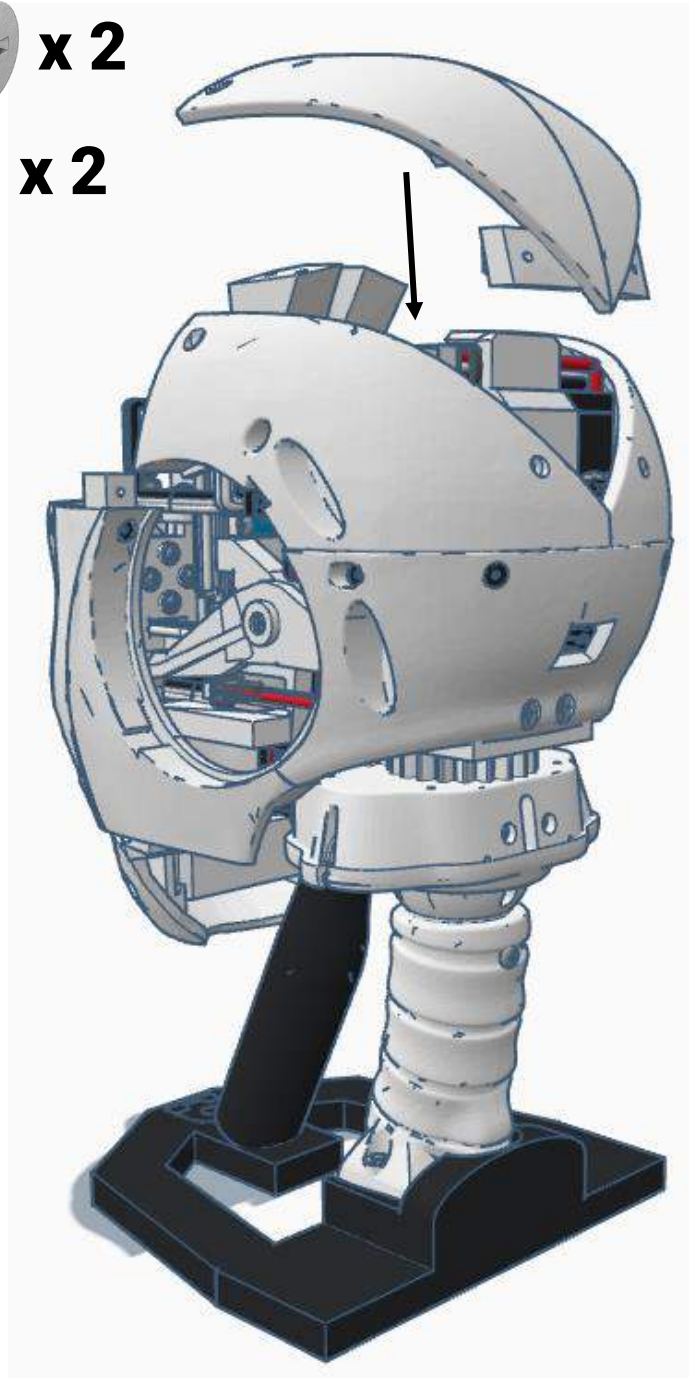
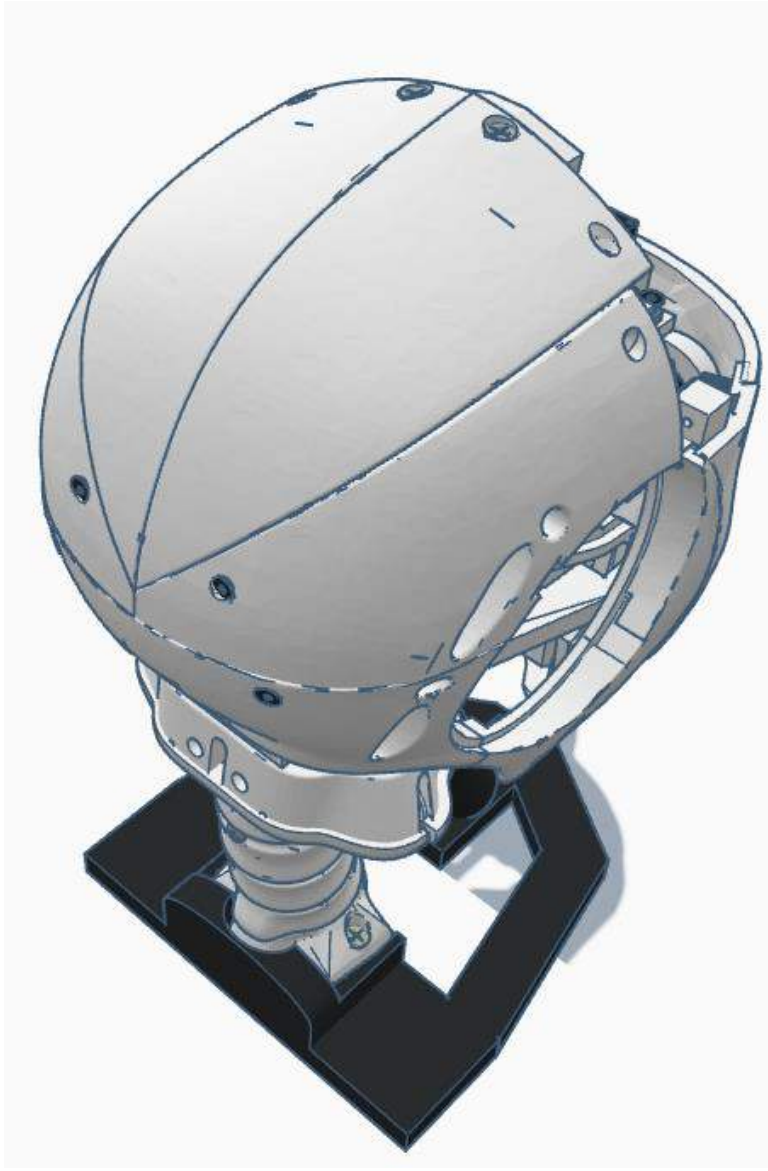
x 2





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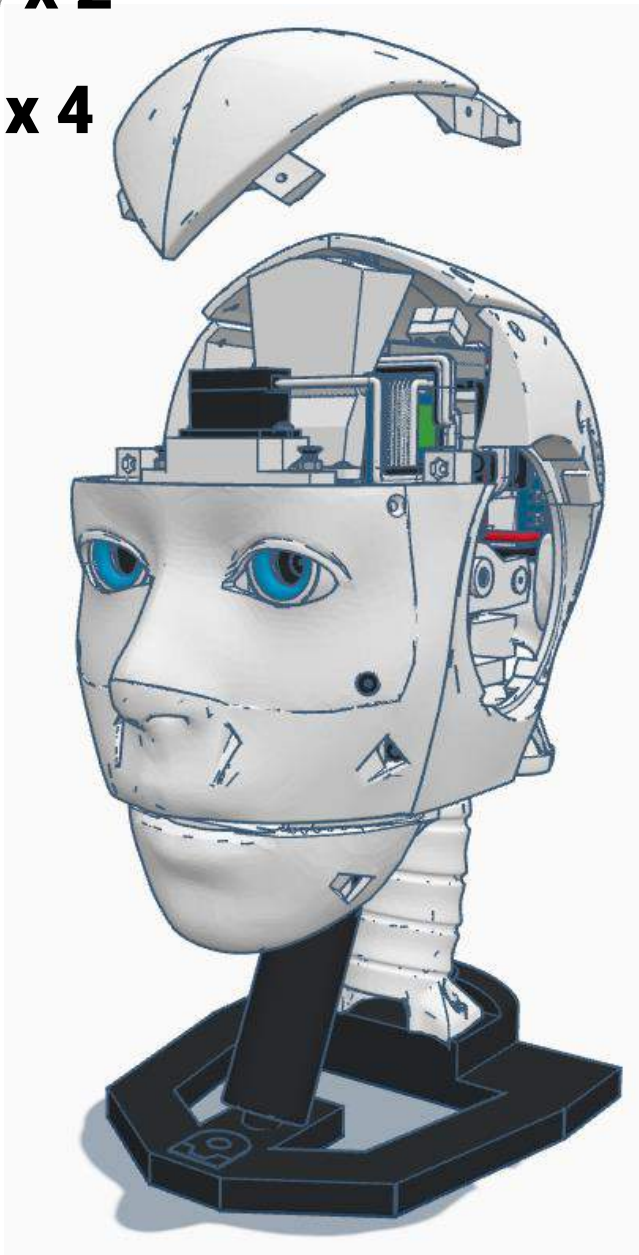

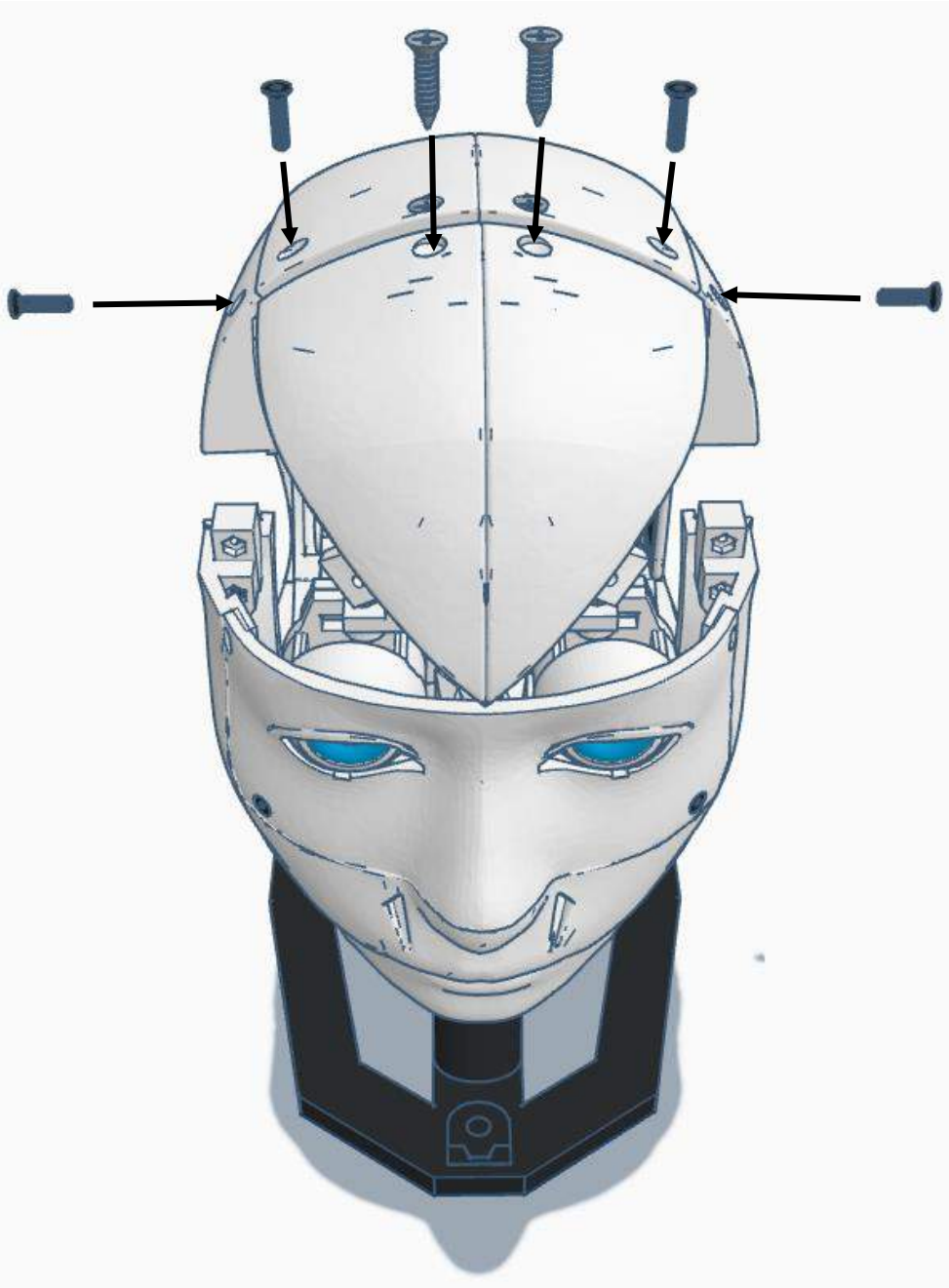

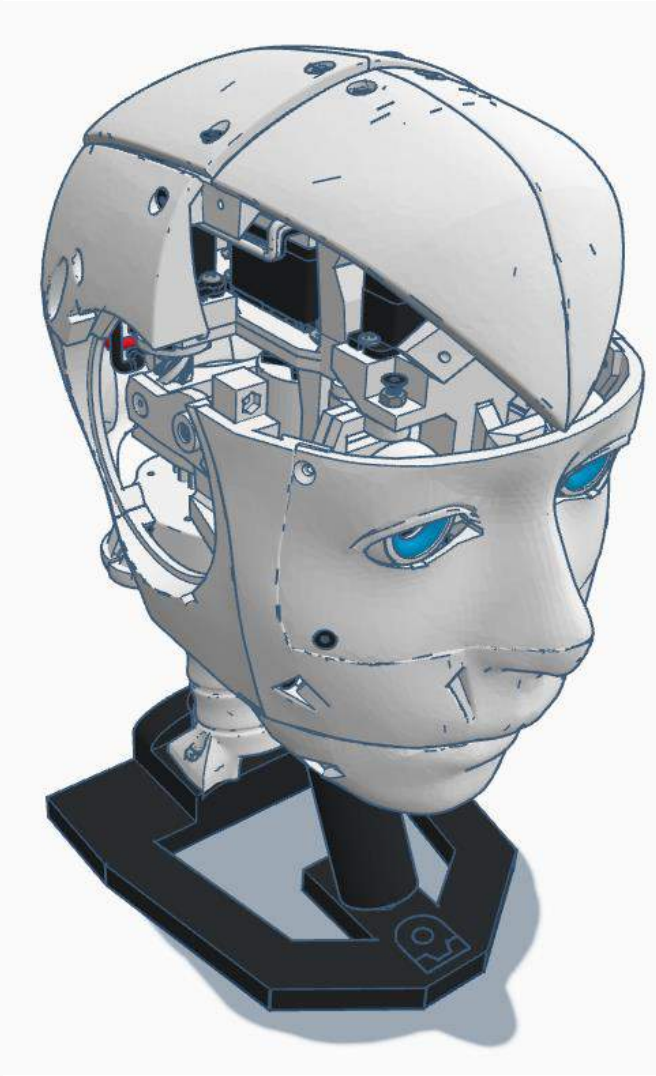

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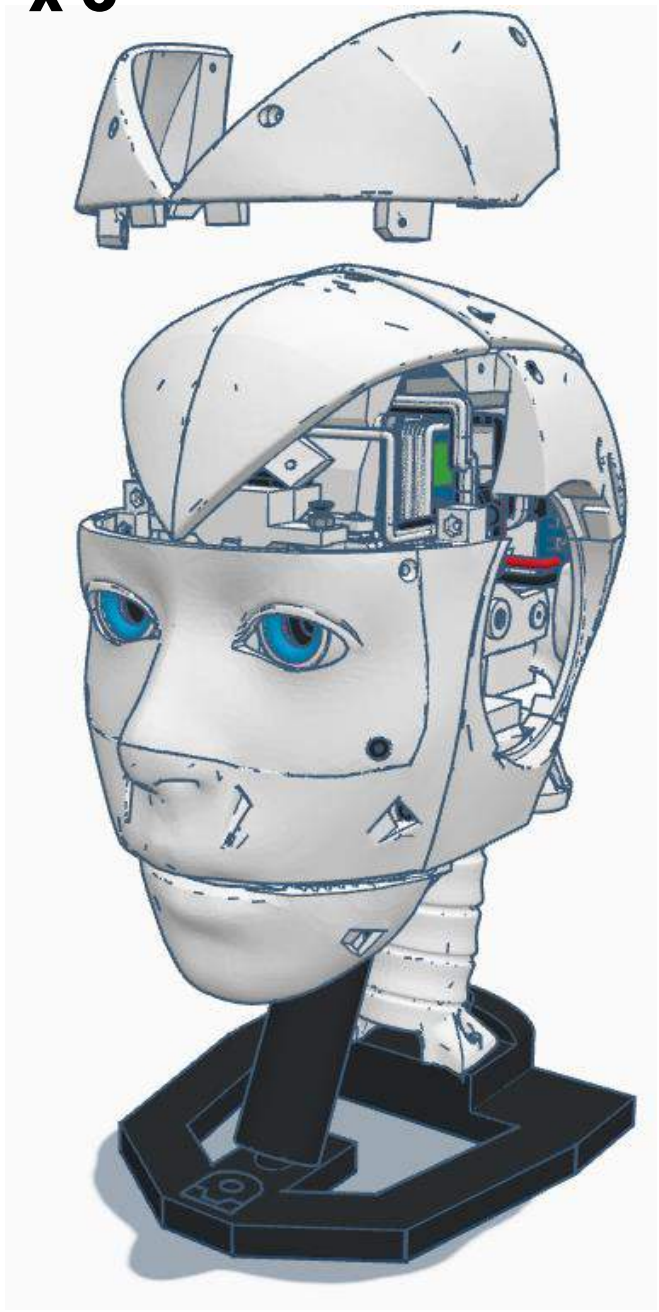

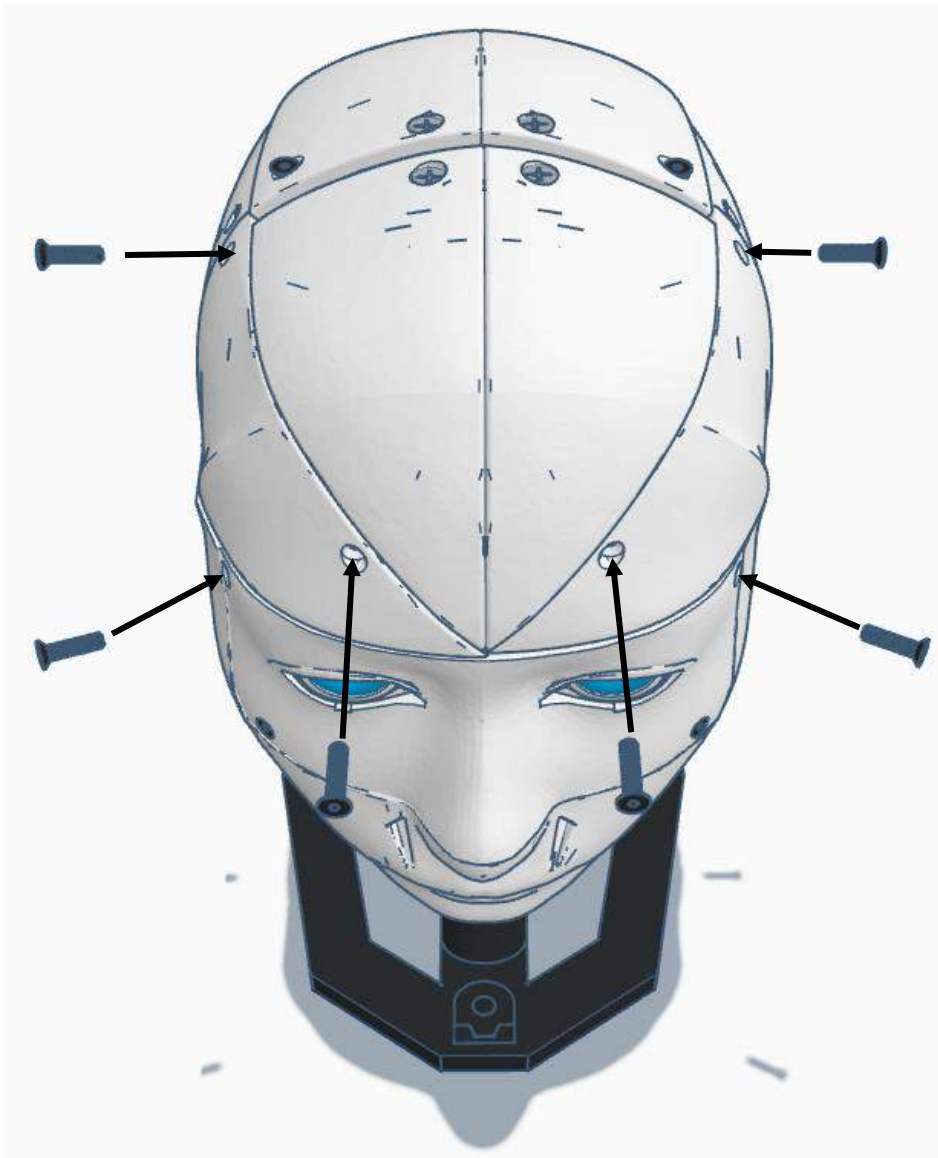

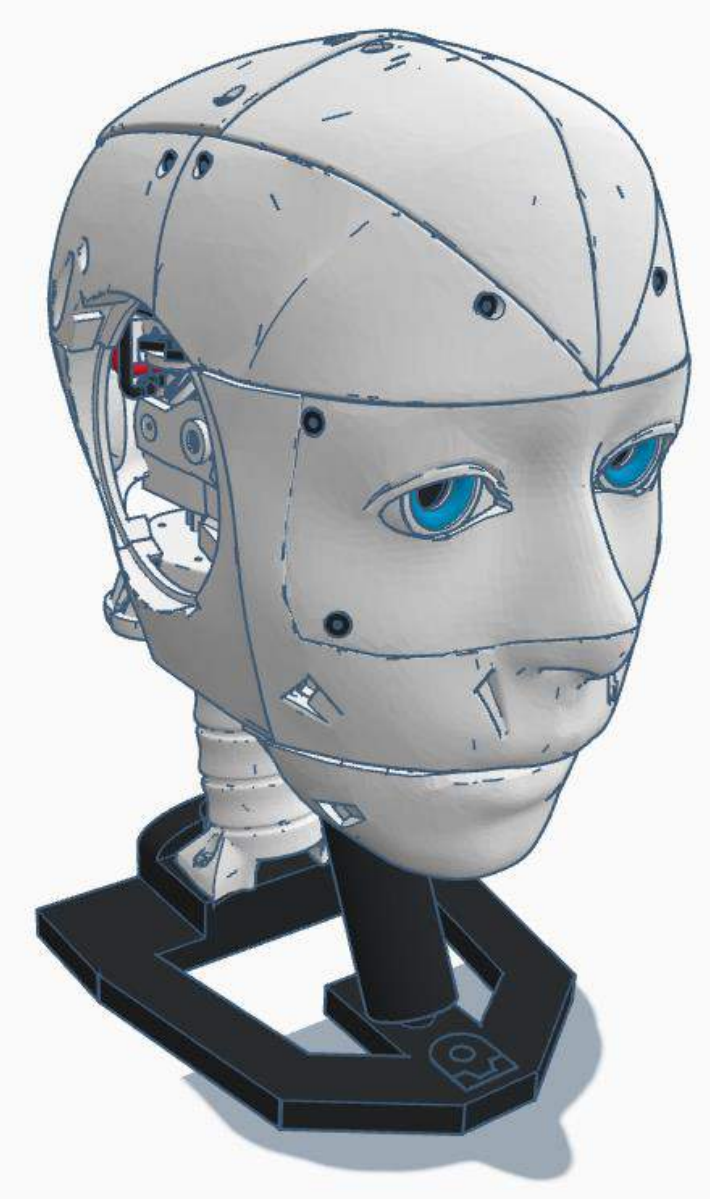
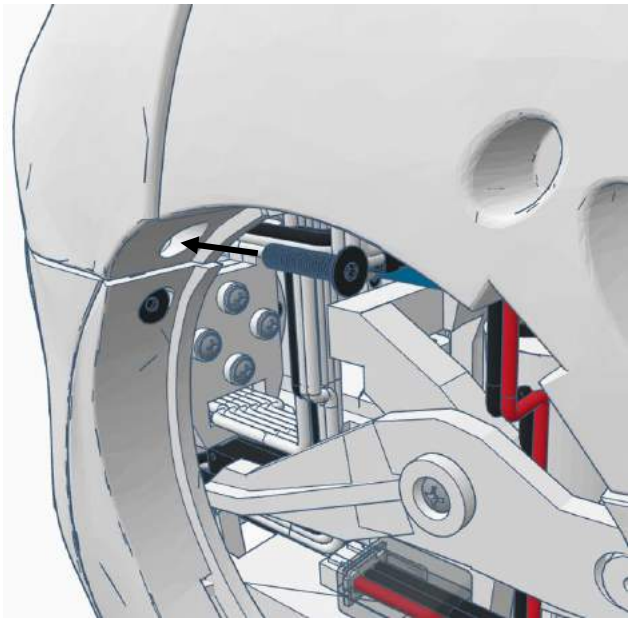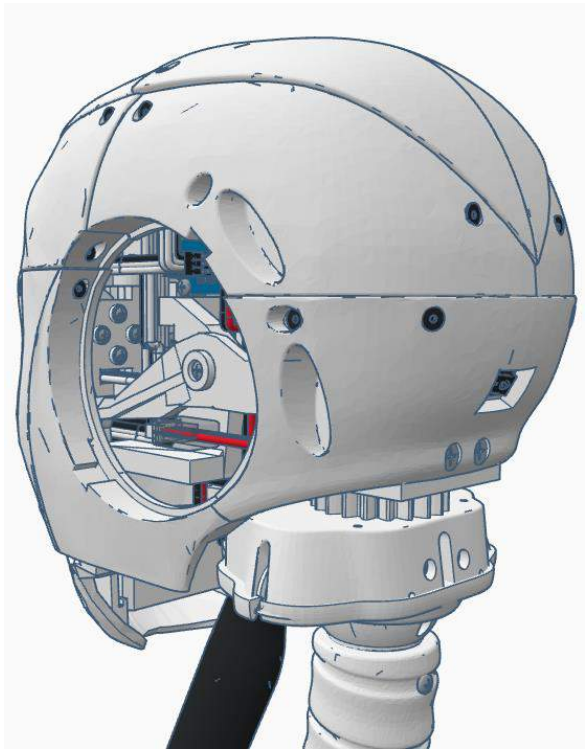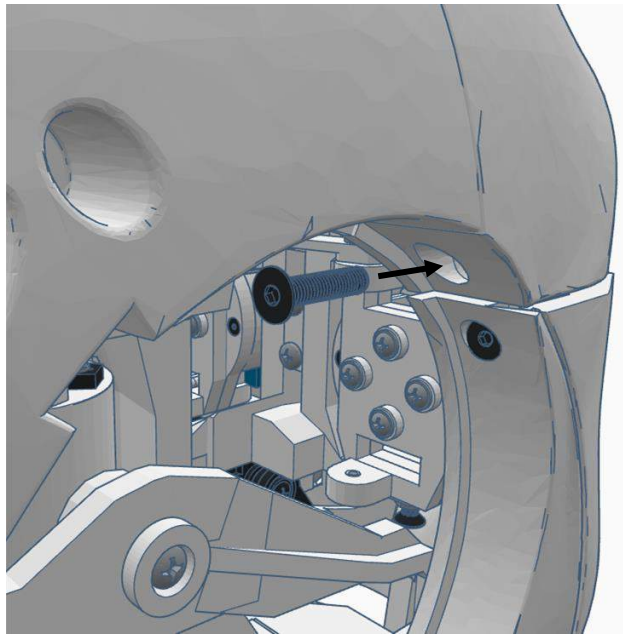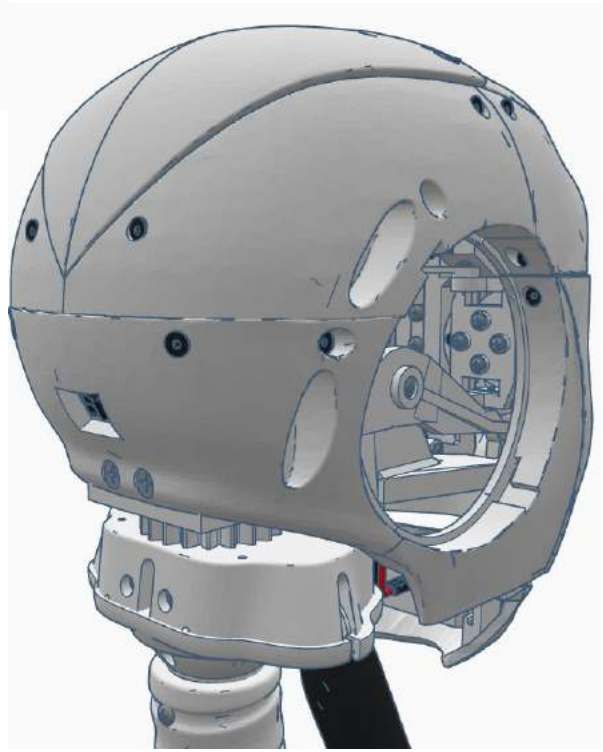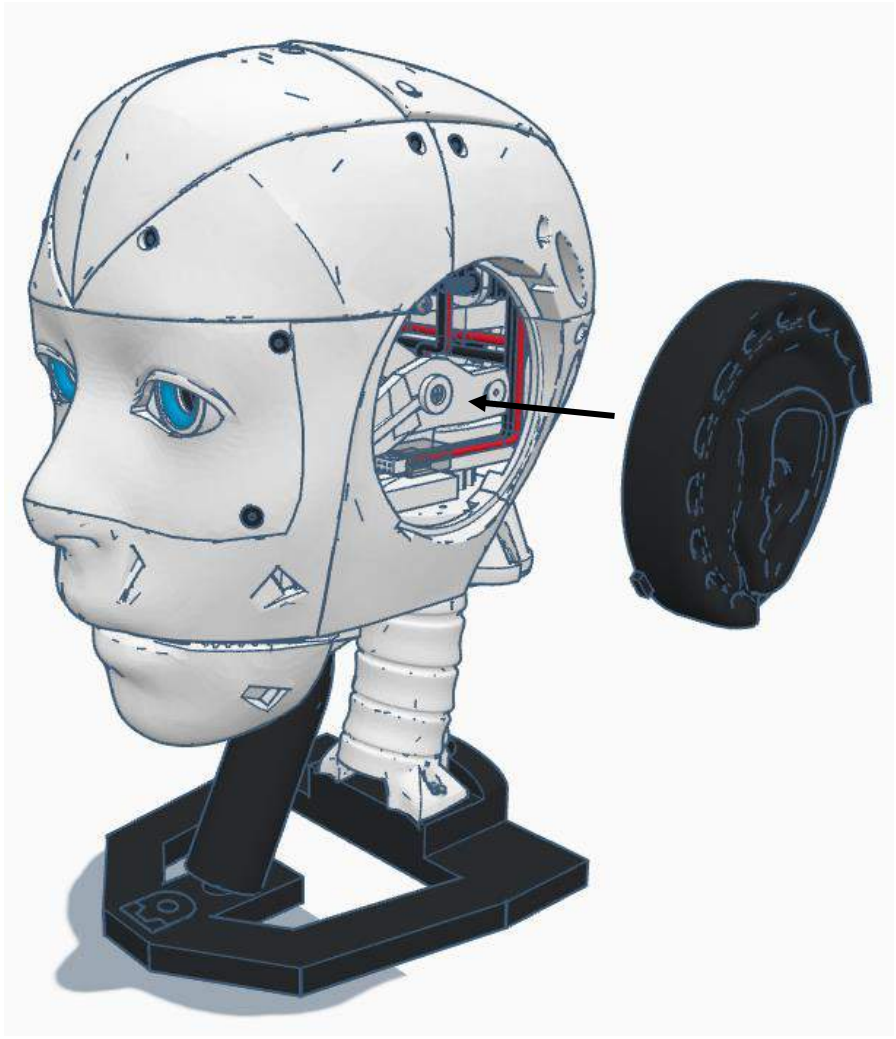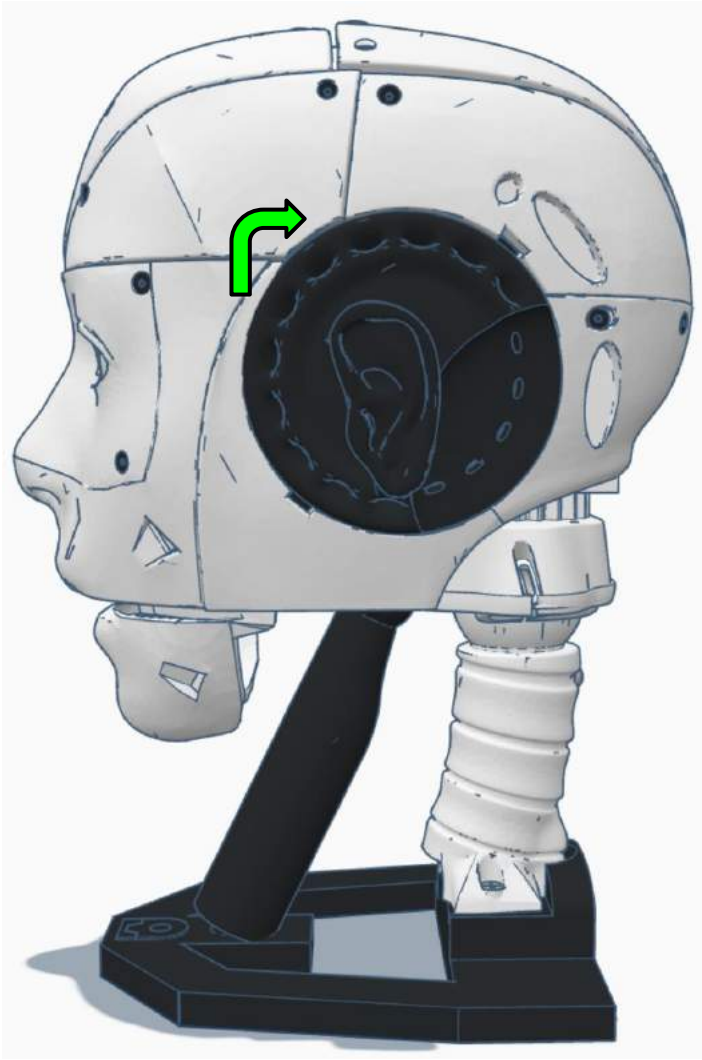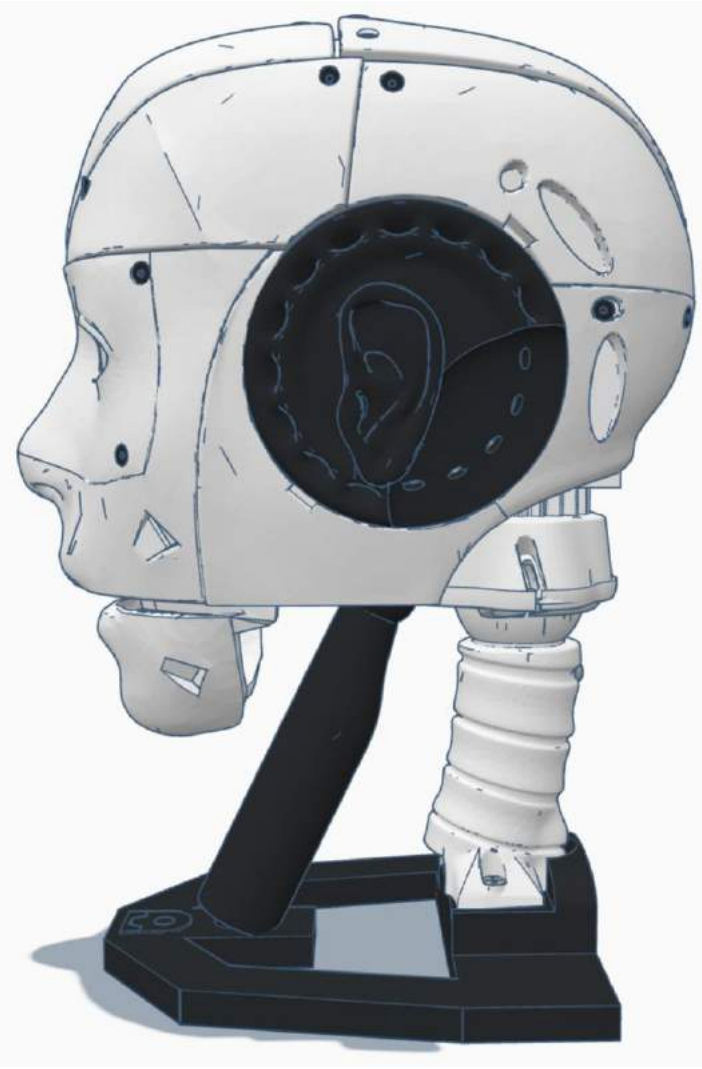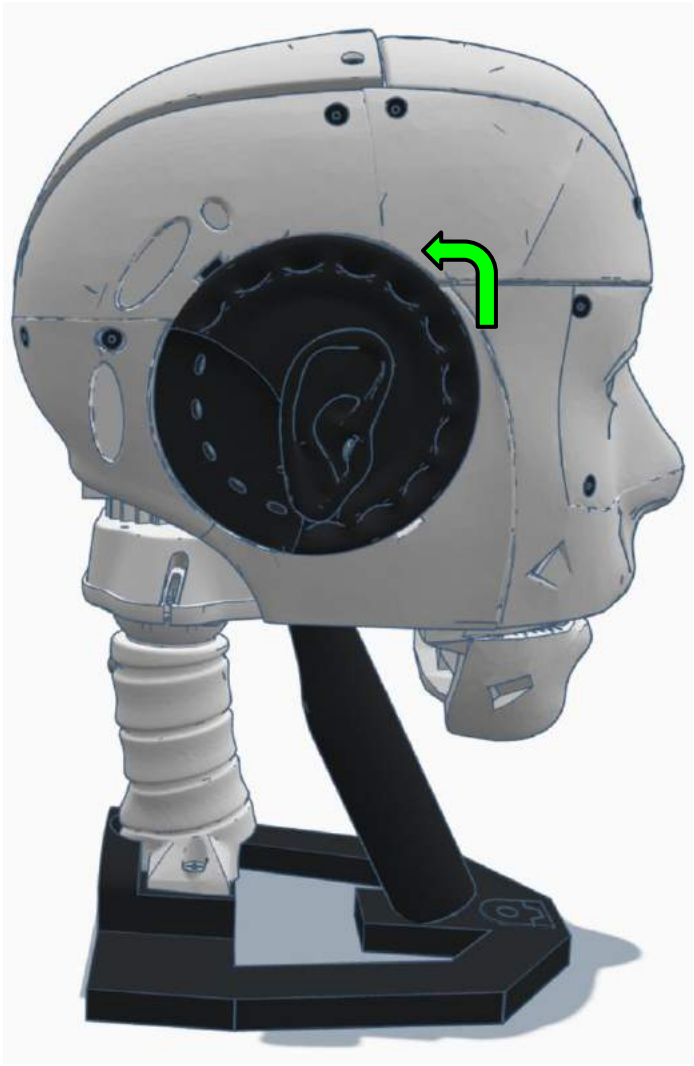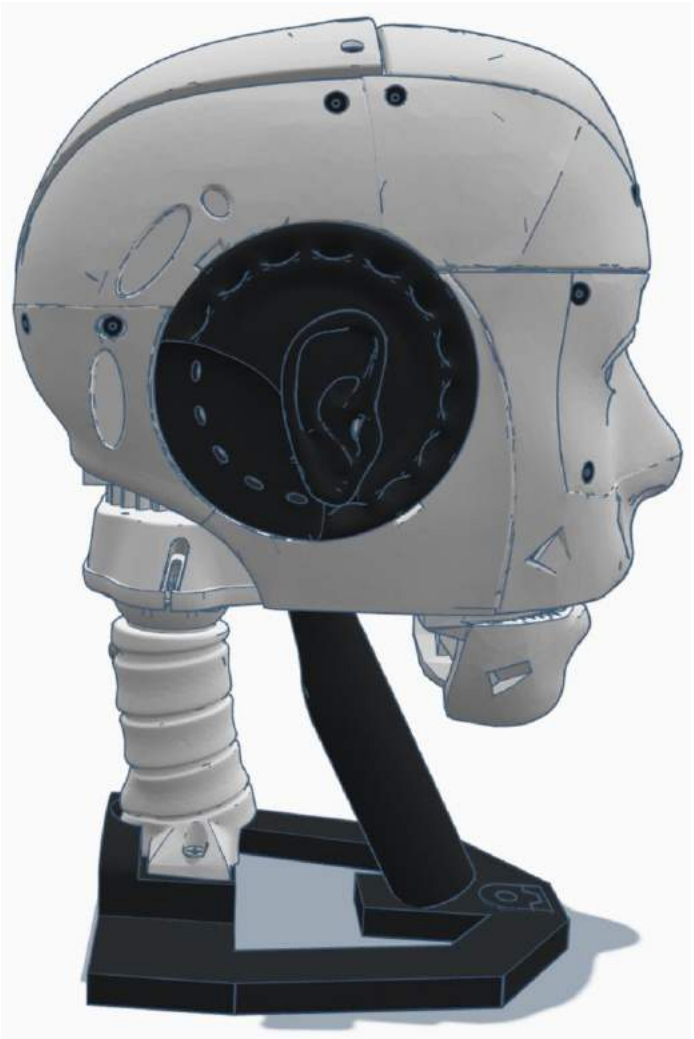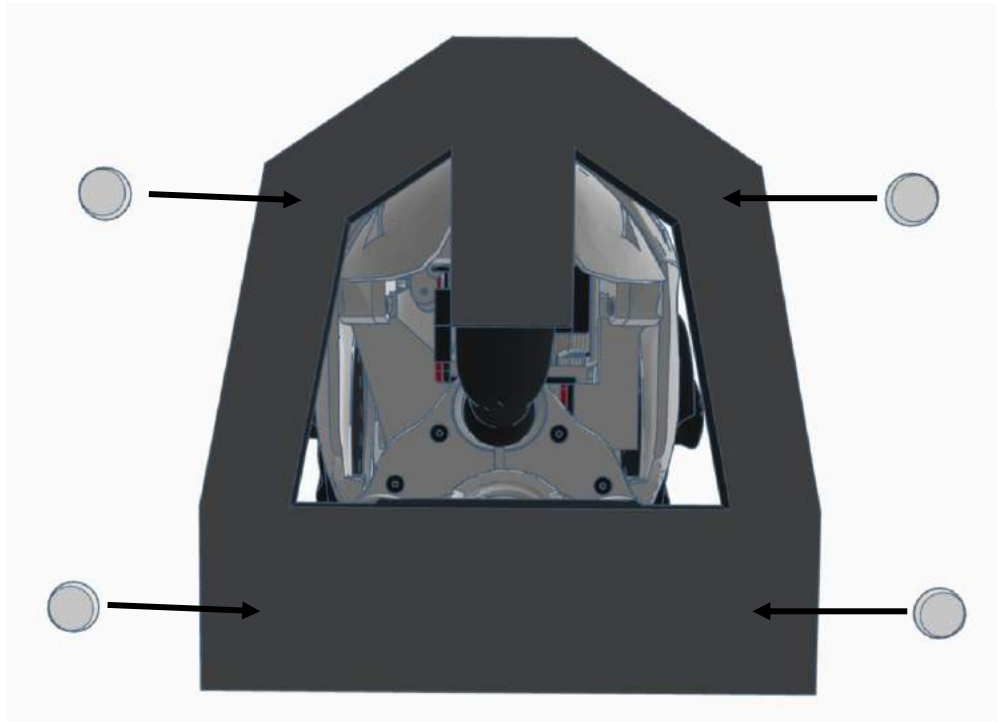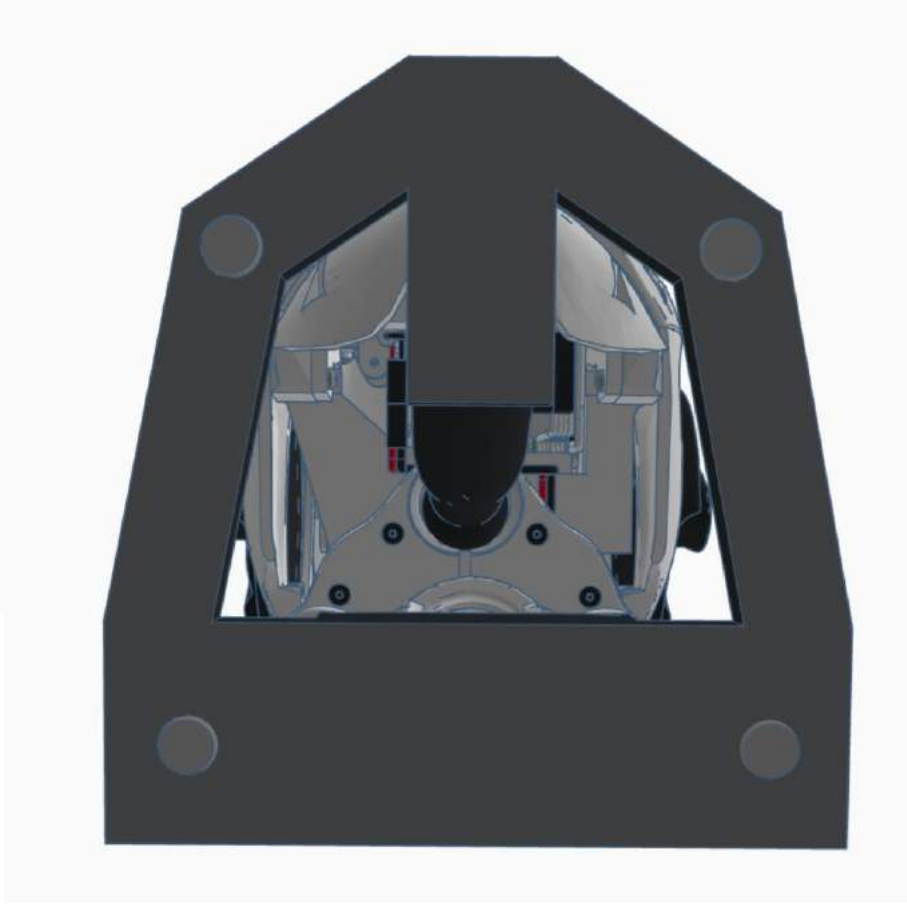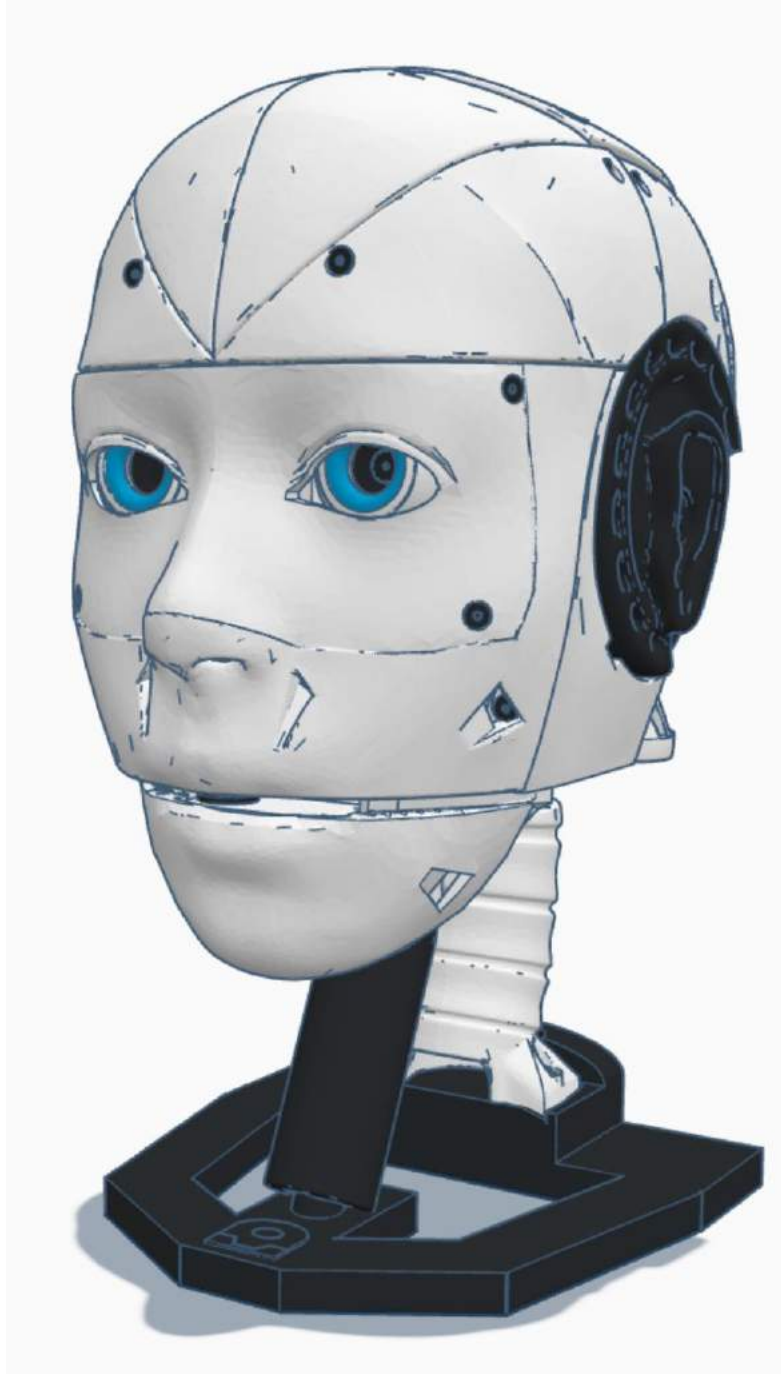
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