



JABBERWOCKY BUILD GUIDE V82

MMU Ready toolhead

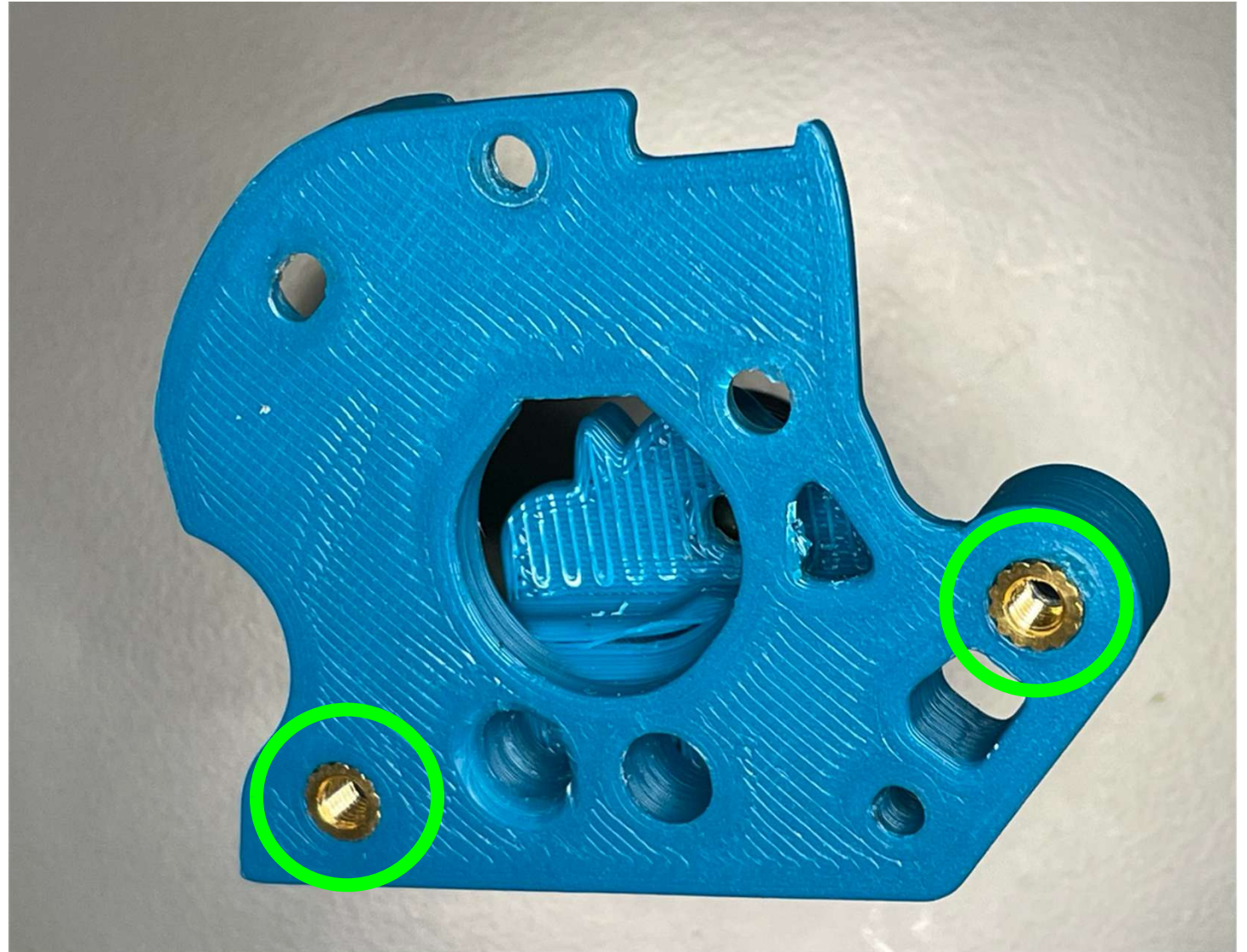
Edition Date: 2026-01-10

挤出机组装

在组装过程中，我们会使用一些术语来描述组件在不同方向上的定位，以便正确插入零件。我们使用 **latch-side (锁扣侧)** 来指代用来解开 Jabberwocky 进行维护的杠杆所在的一侧；而 **hinge-side (铰链侧)** 则用于指代挤出机进行旋转的一侧。

开始组装时，请先按照图片所示，在 **Motor Mount (电机支架)** 的打印件中安装 **M3 热熔螺母**。

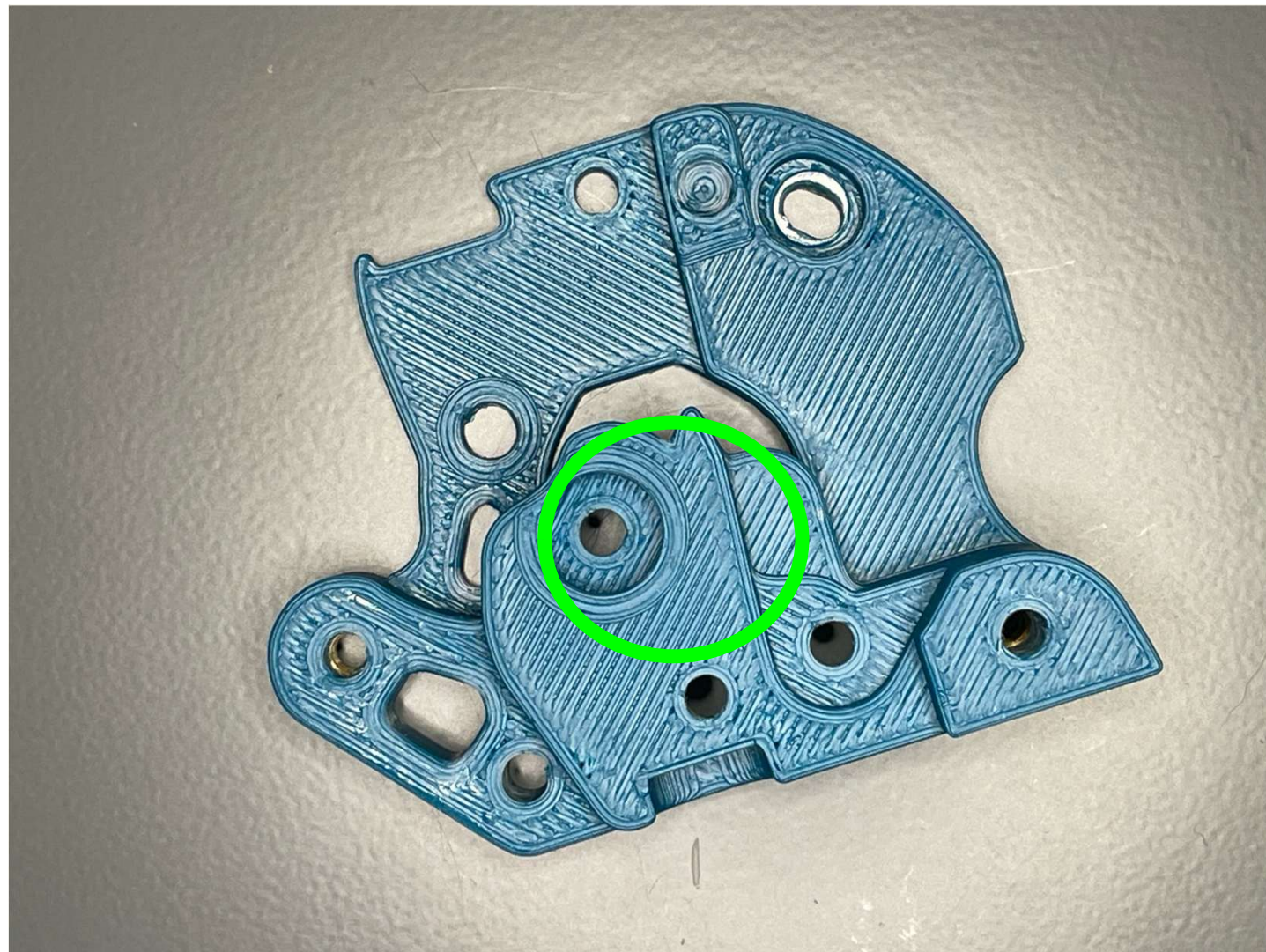
本步骤所需五金件：
M3 热熔铜柱 × 2



挤出机组装

检查图片中以绿色标出的
Motor Mount (电机支架) 上的
轴承孔。

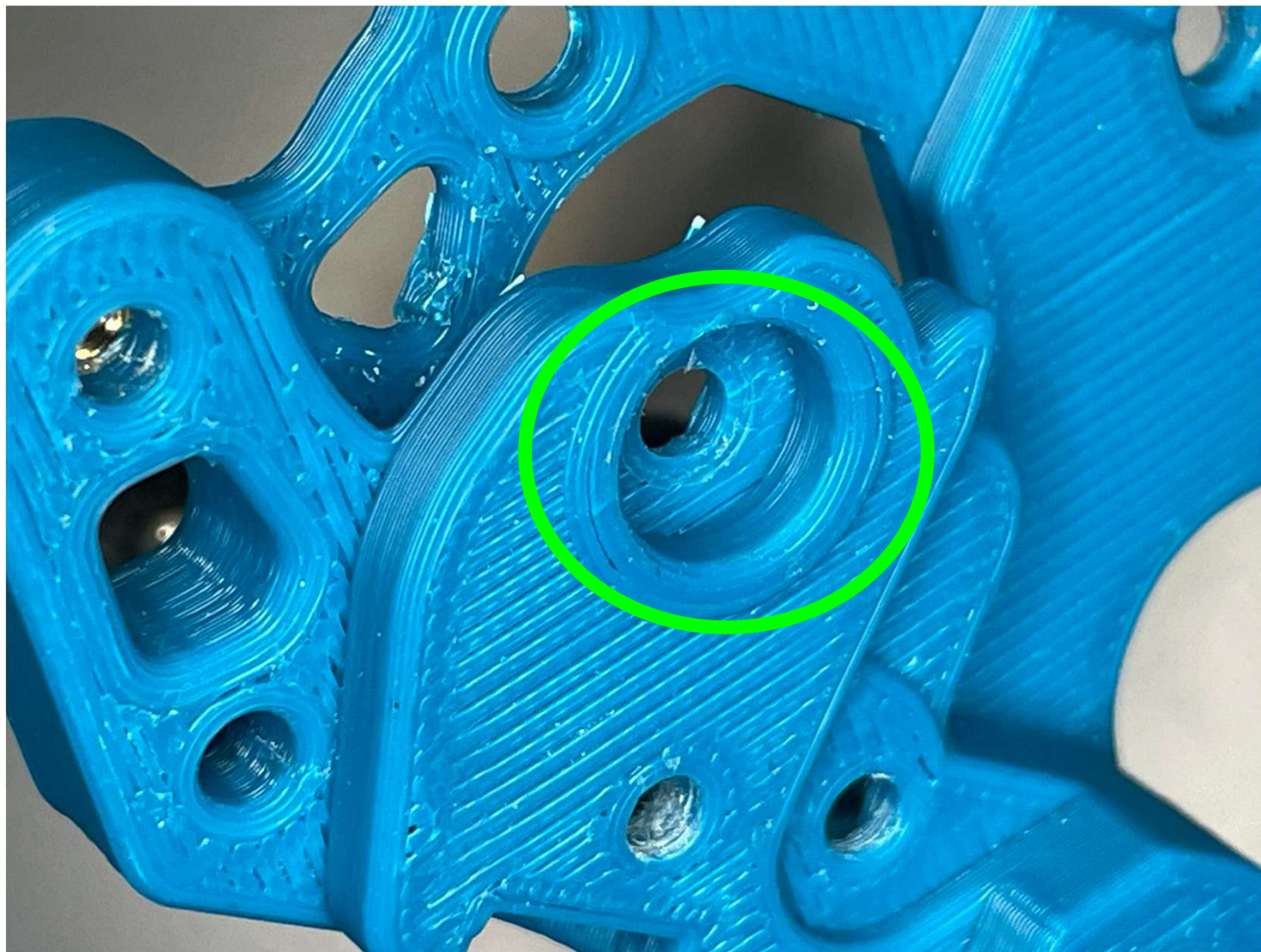
确保该位置干净，并且孔内没
有多余的耗材残留。



挤出机组装

将该部件侧转后，你就可以检查内部空腔，确保其中没有碎屑或残留塑料。你可以使用小号螺丝刀将其清理干净。

这个空腔的设计目的在于：如果轴承在安装时刮到塑料，塑料会被推入空腔中，而不会阻碍轴承完全压入到位。



挤出机组装

使用打印的工具安装 MR84-ZZ 轴承。该工具的设计是为了在安装时施加均匀压力，并防止轴承被压入超过所需深度。

本步骤所需五金件：
MR84-ZZ× 1



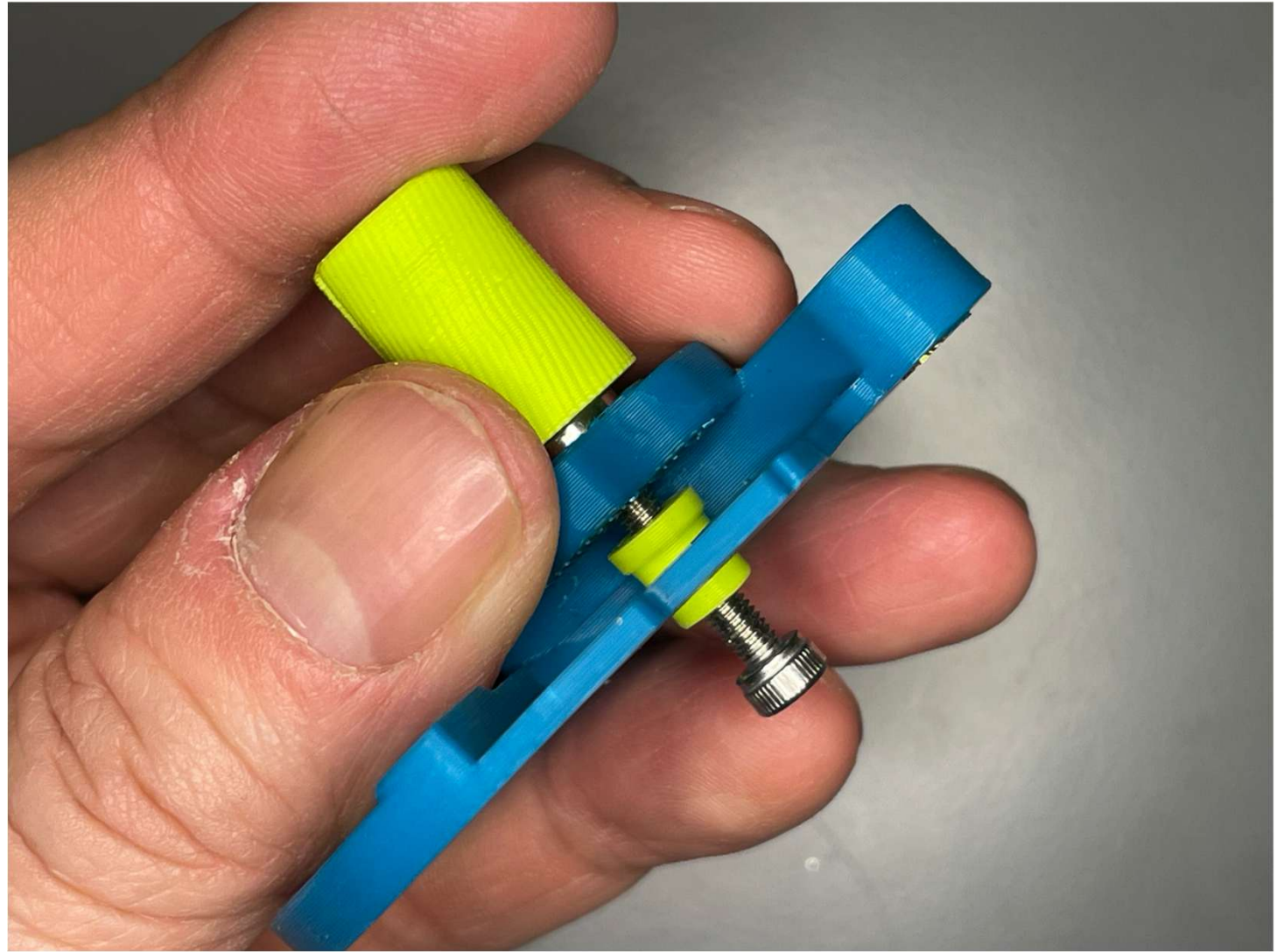
挤出机组装

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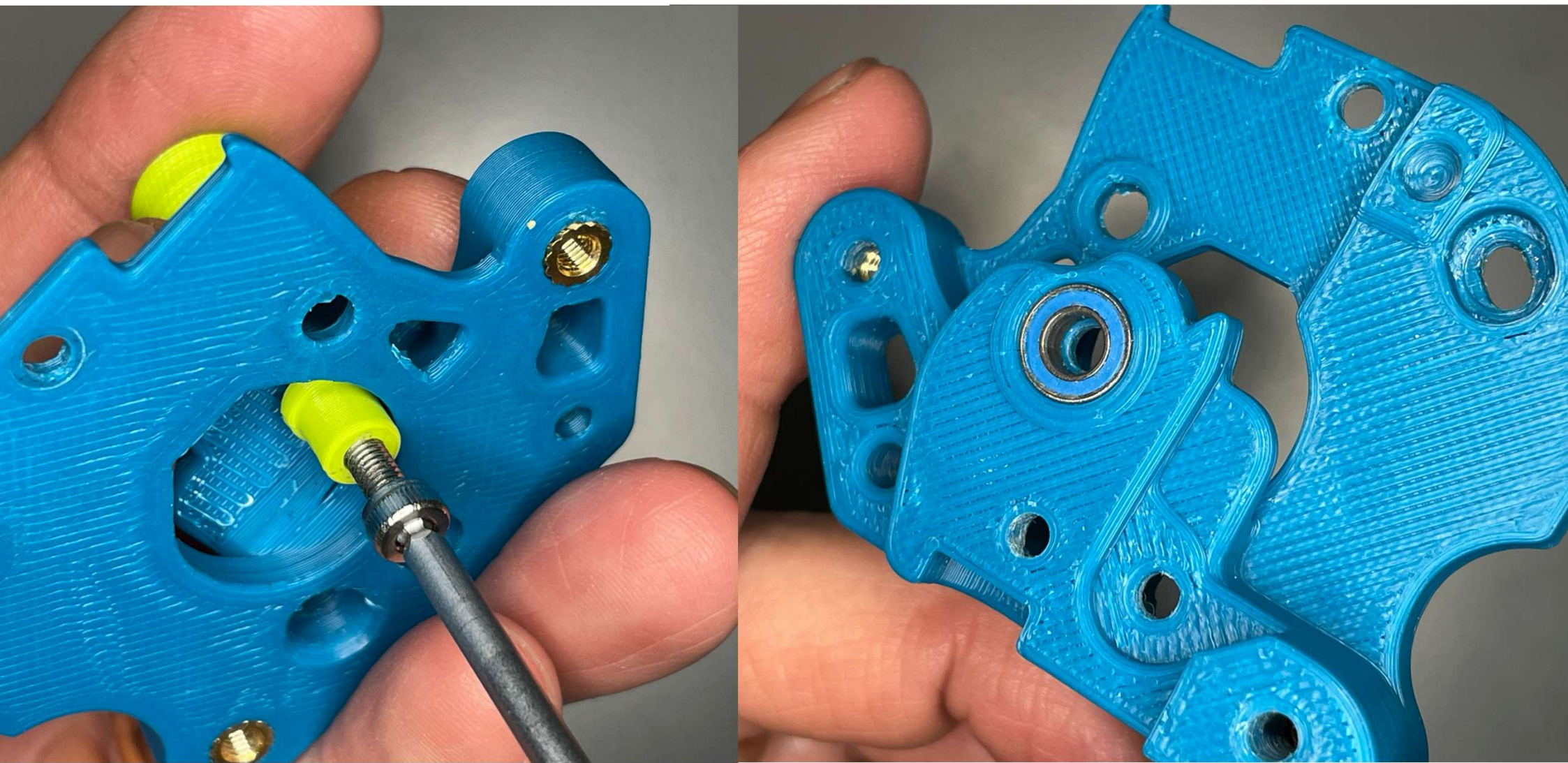
暂时使用套件中的任意一根**全牙 M3×35 或更长的螺丝**（不建议使用半牙螺丝），并配合**M3 六角螺母**，通过这款两件式打印工具将轴承固定到位。



本步骤所需五金件：
M3x35m或更长的螺丝× 1
M3六角螺母× 1



挤出机组装

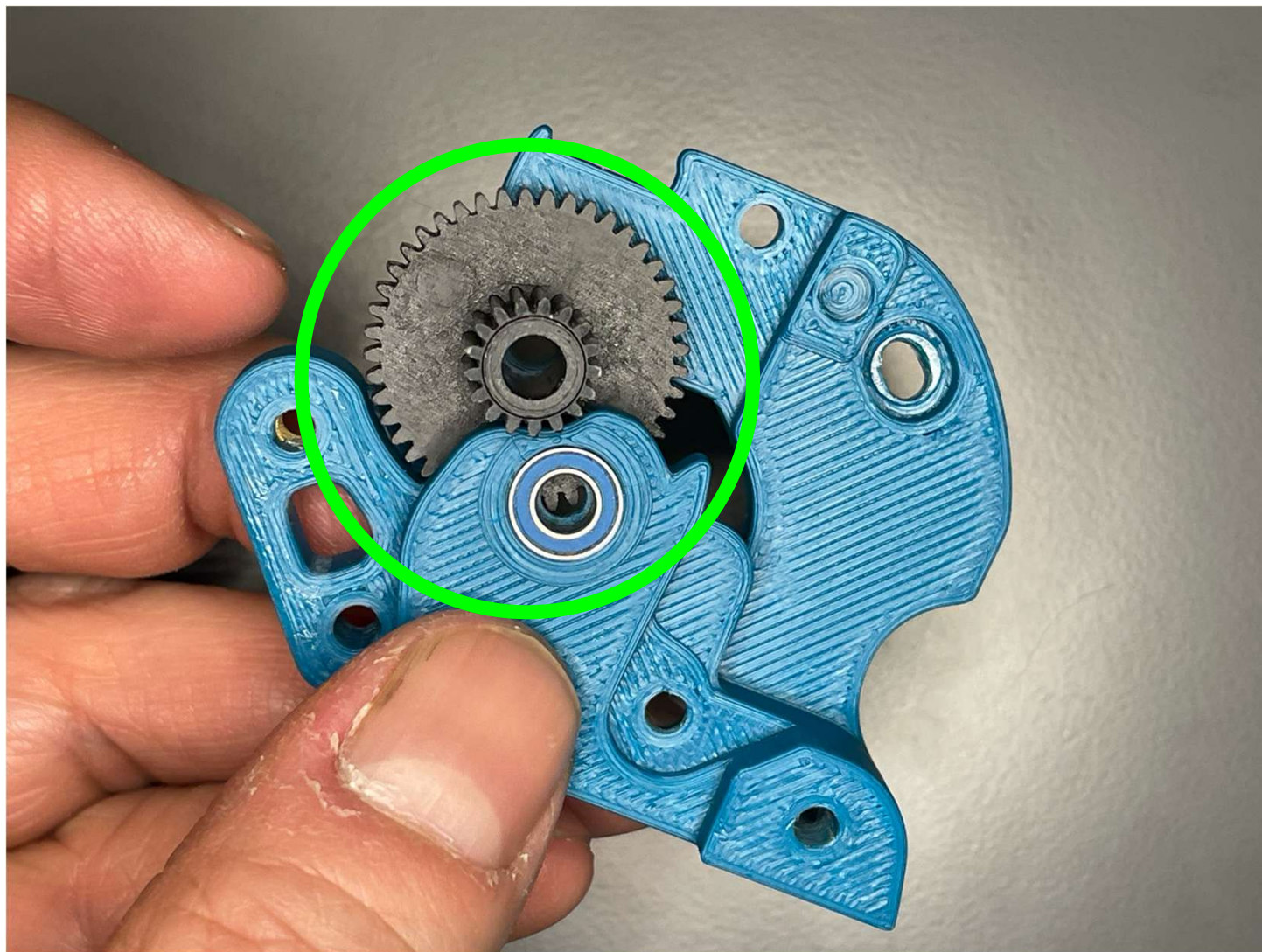


正确安装的 **MR84-ZZ 轴承** 将会与周围的塑料凸台齐平。

挤出机组装

接下来，将 **BondTech 复合驱动齿轮** 安装到 **Motor Mount (电机支架)** 上。

齿轮将先放置在此位置，直到你安装**定位销**将其对准孔位。



本步骤所需五金件：
BondTech 复合驱动齿轮x 1

挤出机组装

从齿轮的窄侧将 **M4×18mm 定位销** 插入 **BondTech 驱动齿轮** 中。

定位销不会完全穿透齿轮，因此请不要用力硬推。

本步骤所需五金件：
M4x18mm 定位销x 1



挤出机组装

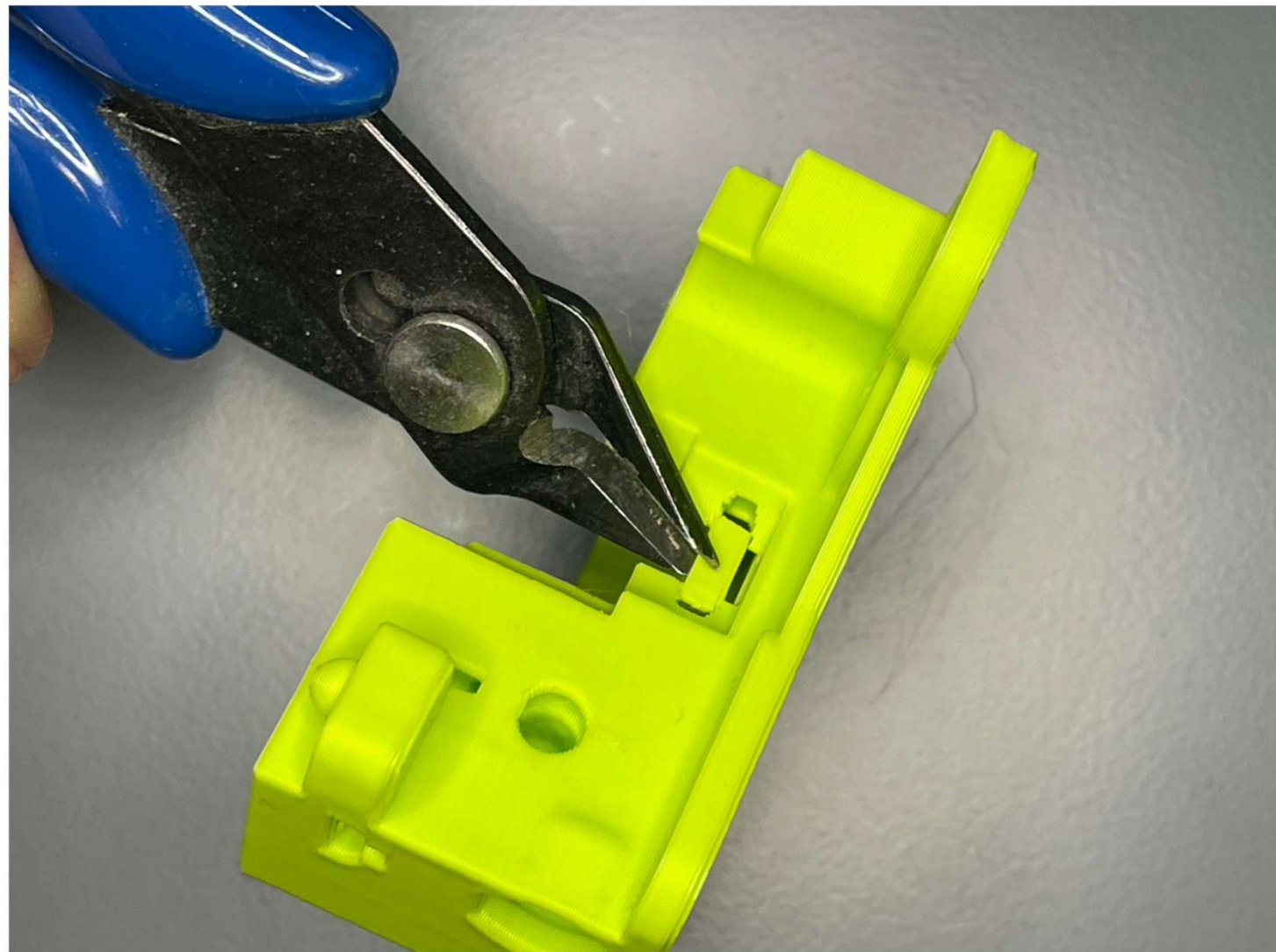
检查齿轮是否可以自由转动，
并确认定位销未突出。



挤出机组装

接下来进行挤出机**中体组件** (Mid-body assembly) 的组装。

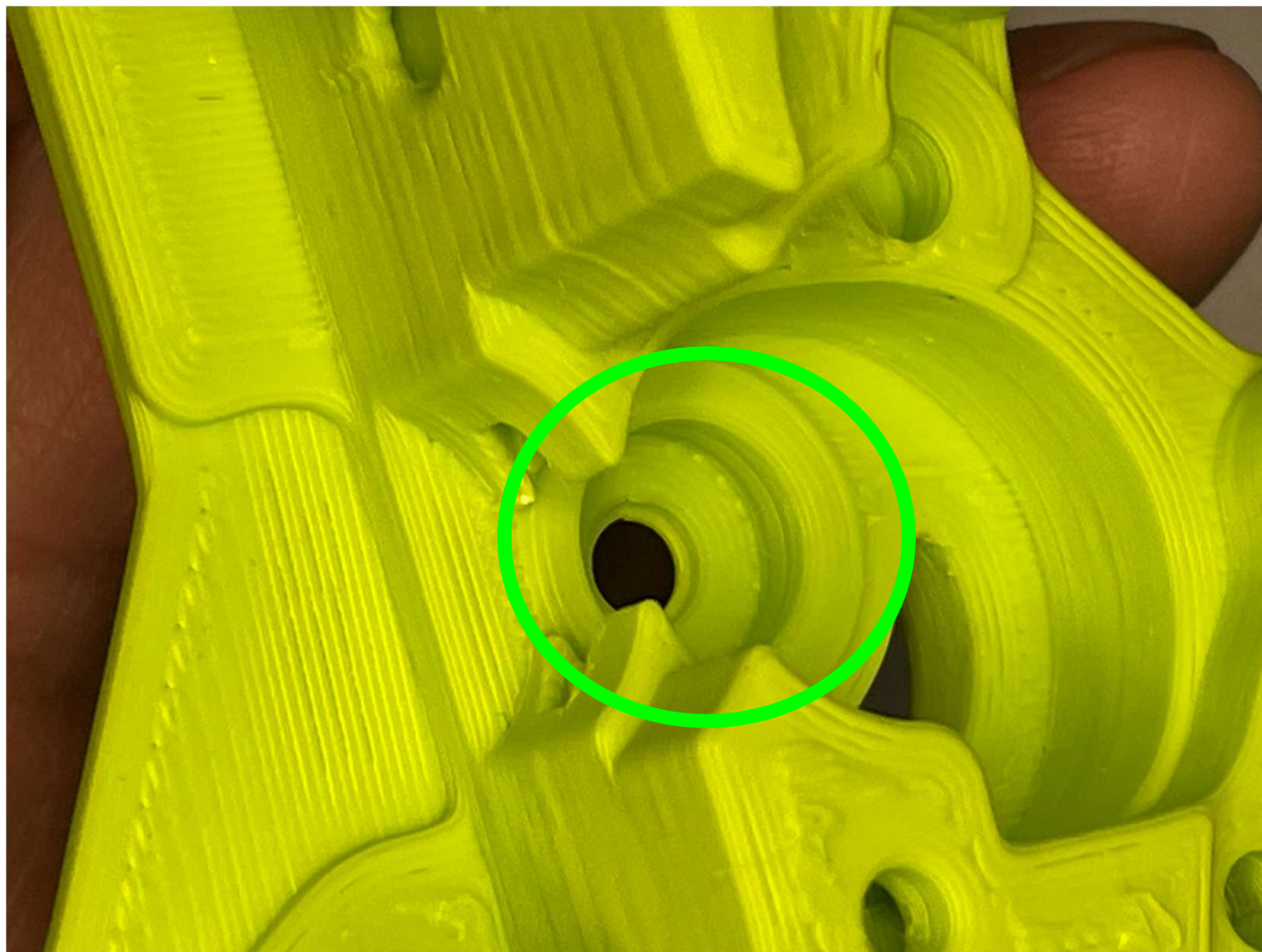
请再次确认**耗材通道的打印支撑**已经移除。确保移除干净，不留残屑。可以使用锉刀进行清理。



挤出机组装

将该部件侧转后，你就可以检查内部空腔，确保其中没有碎屑或残留塑料。你可以使用小号螺丝刀将其清理干净。

这个空腔的设计目的在于：如果轴承在安装时刮到塑料，塑料会被推入空腔中，而不会阻碍轴承完全压入到位。



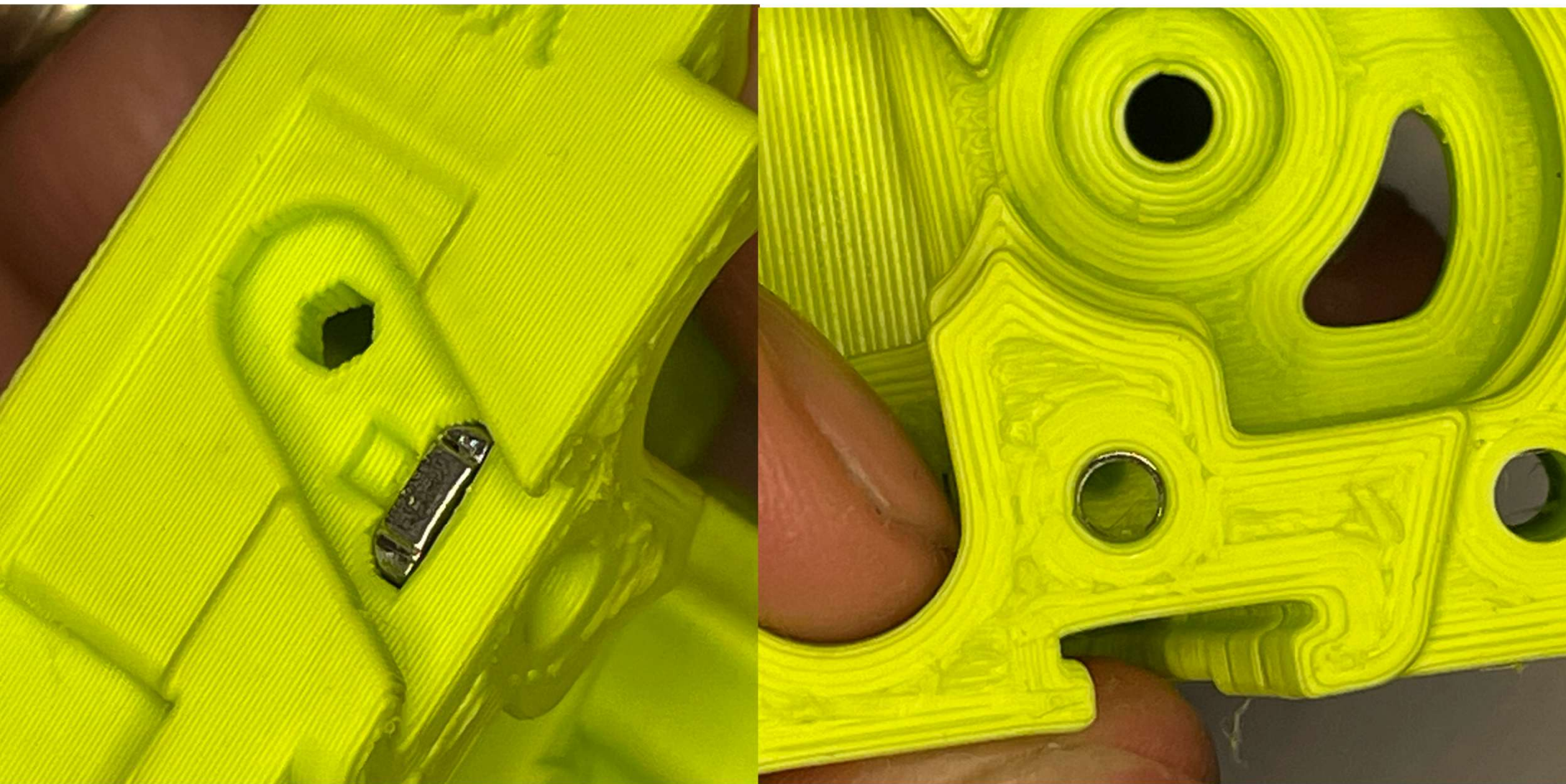
挤出机组装

如图所示遇见安装4个LDO T型螺母。

本步骤所需五金件：
LDO T型螺母x 4



挤出机组装



T型螺母 应当推入各个螺丝将要固定的圆形开孔的中心位置。

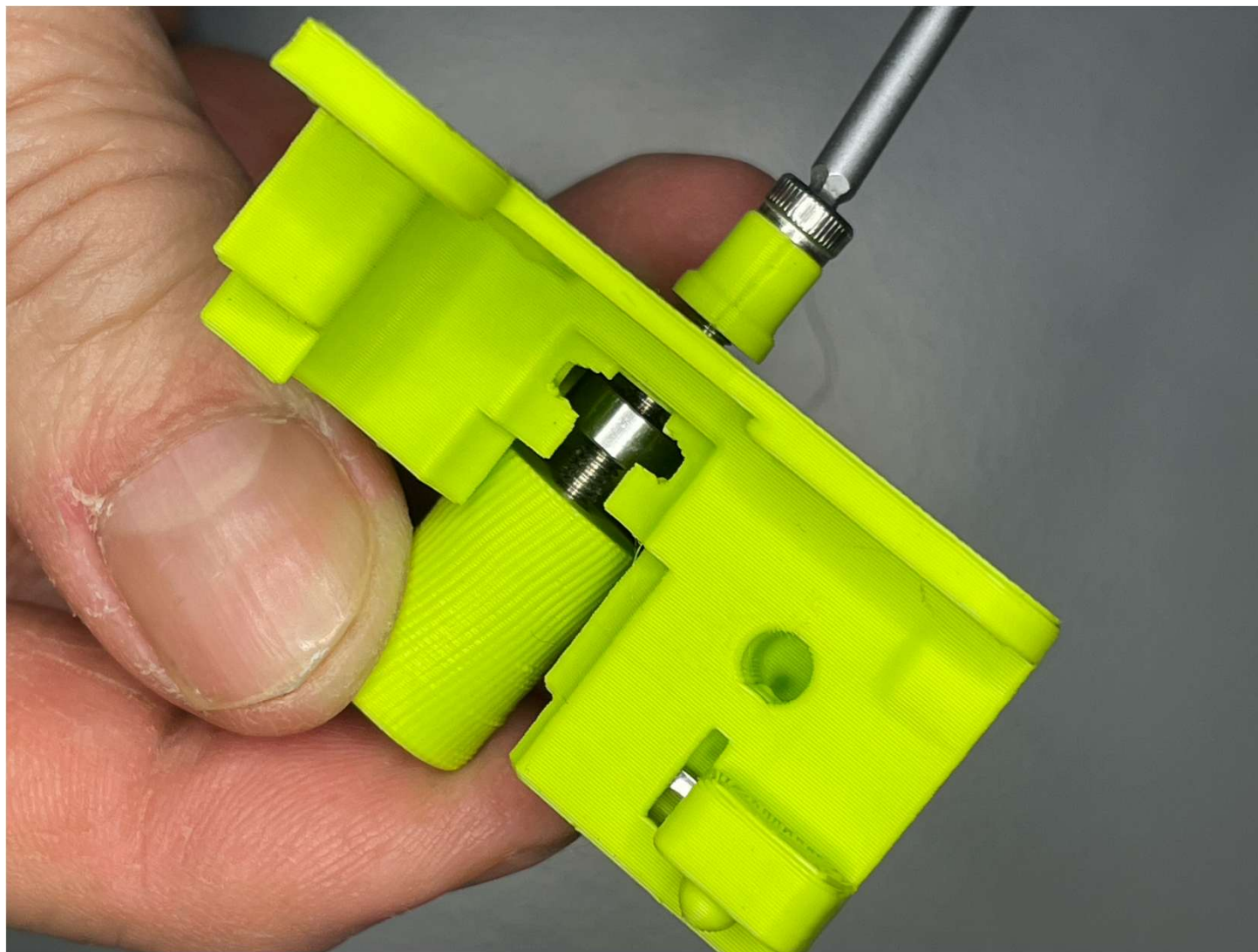
挤出机组装

接下来，将 **MR84-ZZ 轴承** 安装到 **中体组件 (mid-body)** 中，使用之前在电机支架上安装第一个轴承时用的打印工具。

暂时使用套件中的任意一根 **全牙 M3×35 或更长的螺丝**（不建议使用半牙螺丝），并配合 **M3 六角螺母**，通过这款两件式打印工具将轴承固定到位。



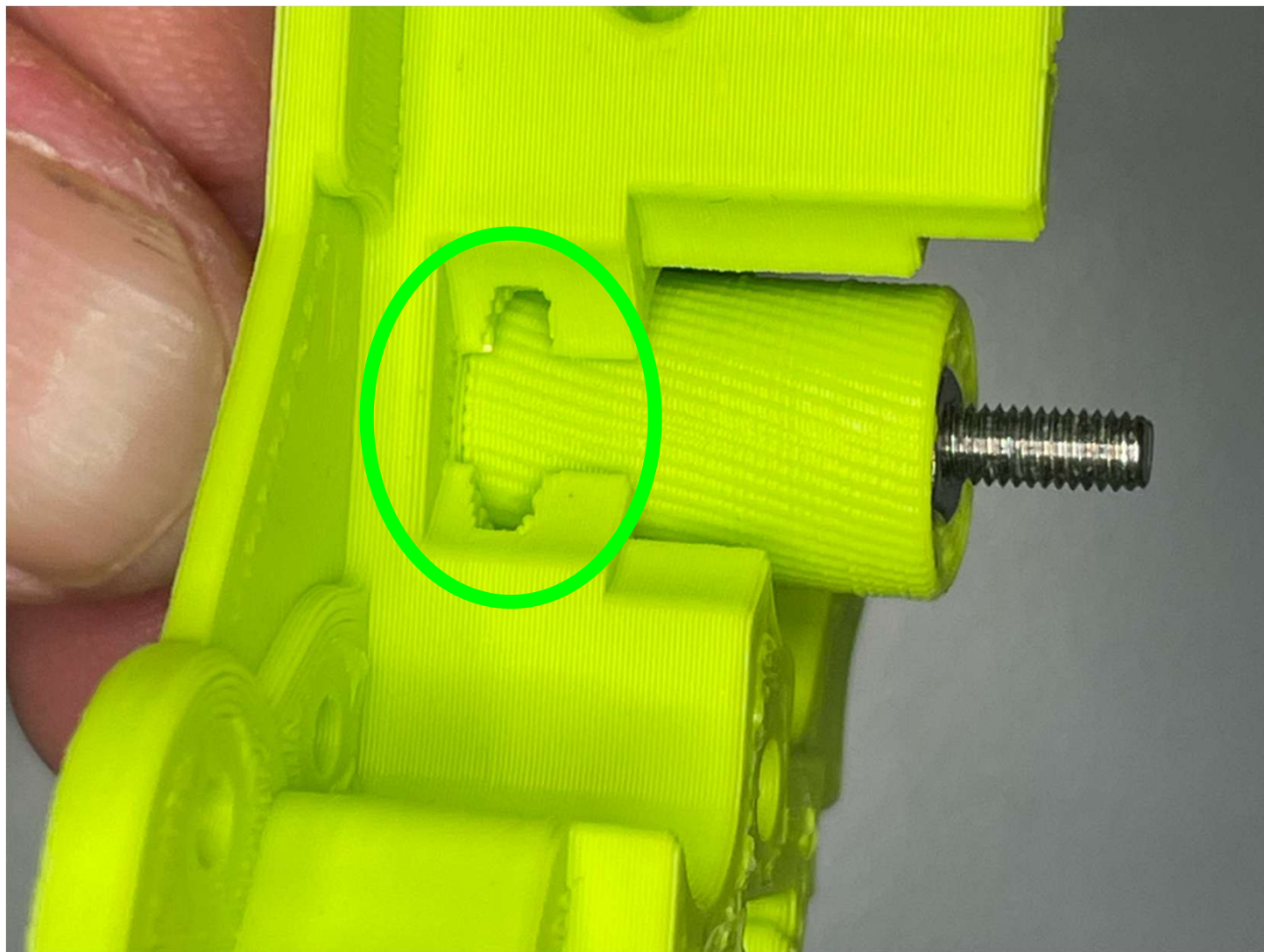
本步骤所需五金件：
MR84-ZZ轴承x 1
M3x35mm或更长的螺丝x1
M3六角螺母x 1



挤出机组装

从右侧图片可以看到，圆圈处不应出现轴承或间隙。

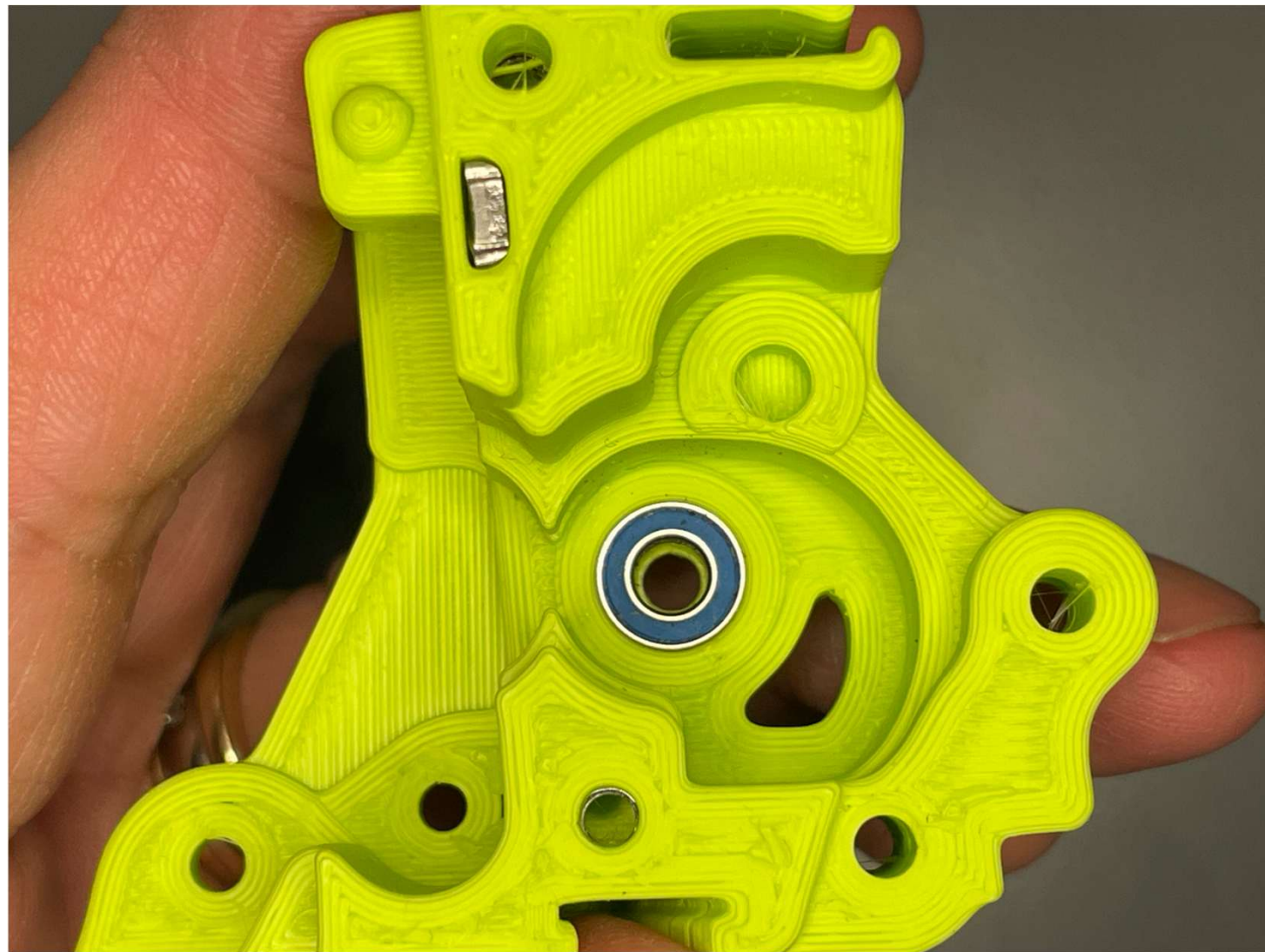
如果出现，请取出工具和轴承（你可以使用套件中任意一根空闲的M4定位销小心拔出，或使用内六角工具）。检查是否有残屑，然后重新尝试安装。



挤出机组装

非常重要：轴承必须与各接孔的凸台齐平。

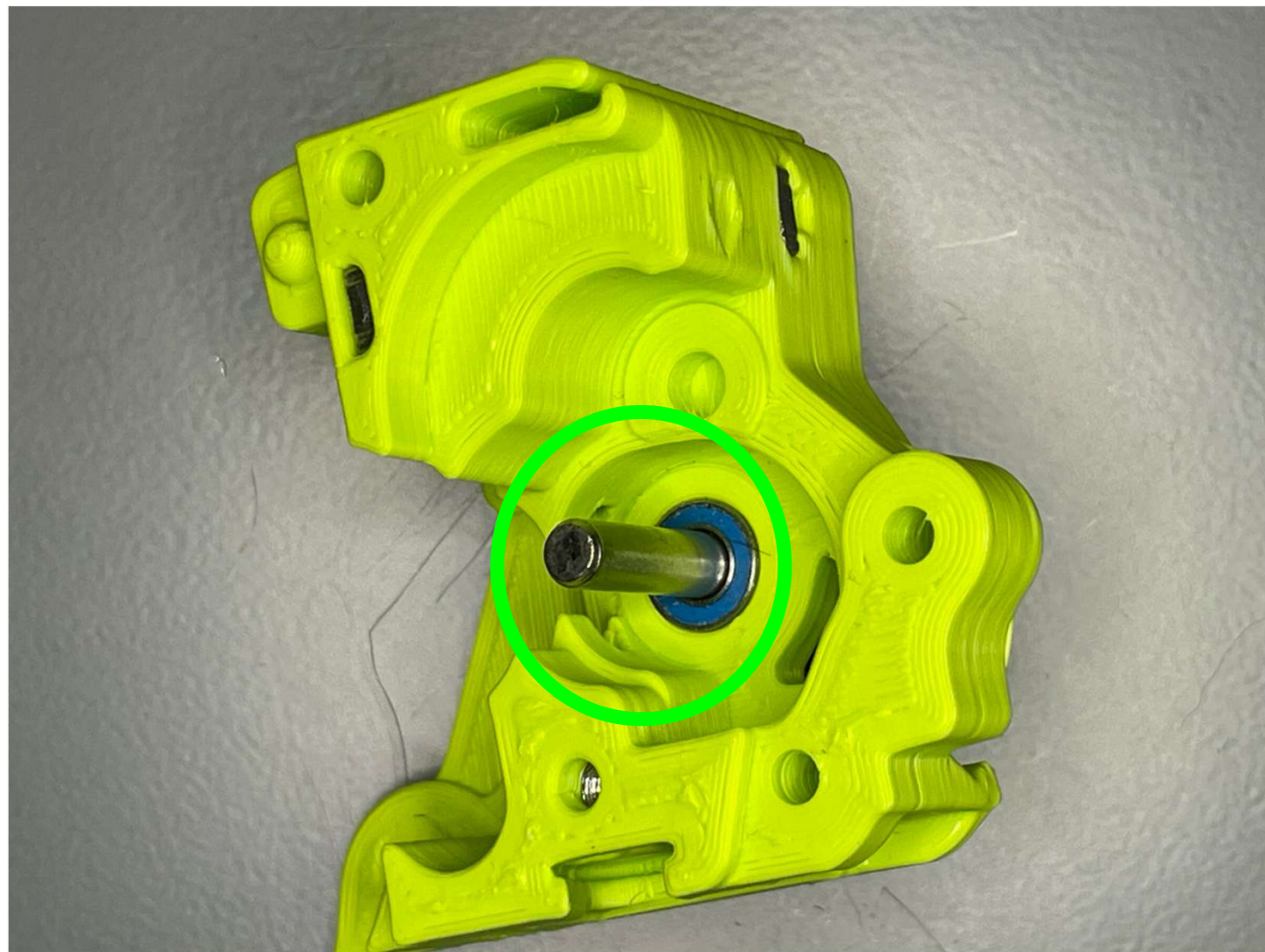
如果轴承未齐平，请取出并检查孔内是否有残屑或多余的耗材。



挤出机组装

从轴承侧插入M4×18mm定位销。

本步骤所需五金件：
M4x18mm定位销x 1

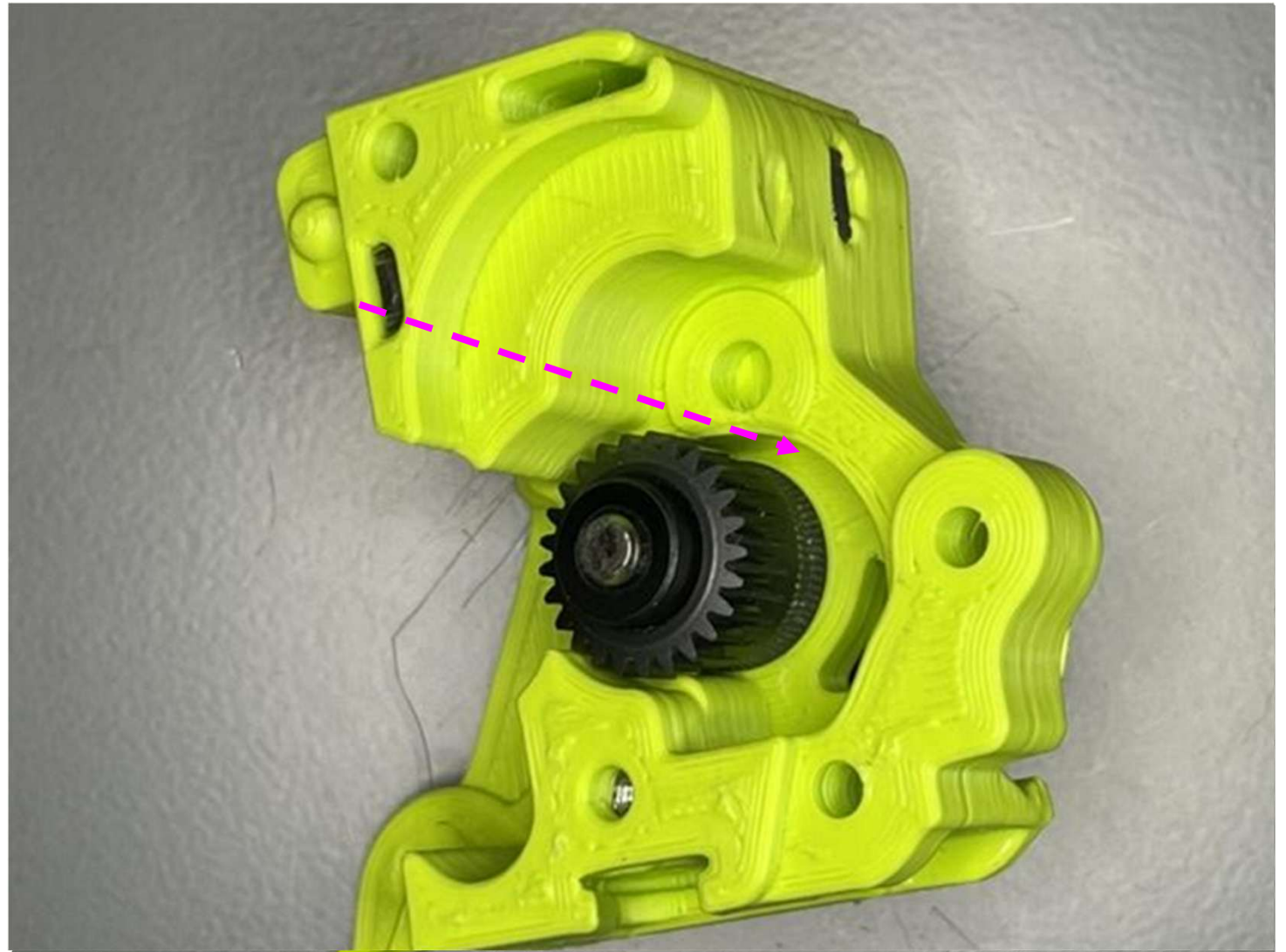


挤出机组装

安装 **LDO PEEK 套管轴承** 和 **无螺纹 Orbiter 齿轮**。
请再次确认所有部件对齐正确，
因为任何错位都会导致 **电机
支架 (Motor Mount)** 无法
齐平安装。

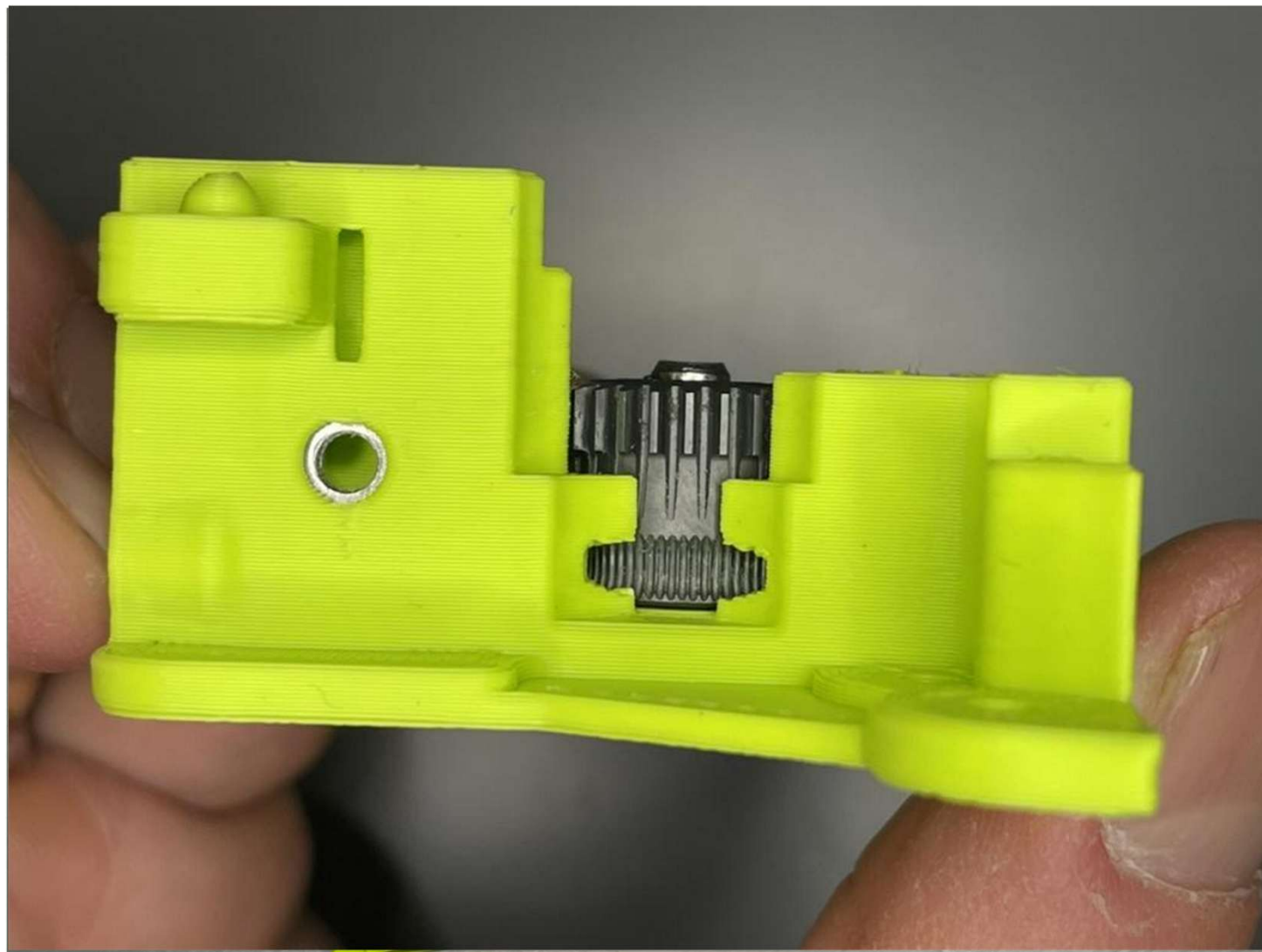
检查齿轮组件是否正确对齐。
耗材齿轮的齿应精确位于耗材
通道的中间位置，如右下方图
片所示。

本步骤所需五金件：
LDO套管轴承x 1
无螺纹Orbiter齿轮x1



挤出机组装

检查齿轮组件是否正确对齐。
耗材齿轮的齿应精确位于耗材
通道的中间位置，如右下方图
片所示。



挤出机组装

接下来，将**中体组件 (mid-body)** 与**电机支架 (motor-mount)** 组装在一起，确保**齿轮正确对齐**，并且**M4 定位销**对准每个**轴承**。



挤出机组装

检查齿轮是否能够顺畅转动。这是第一个重要的检查点：驱动齿轮与耗材齿轮之间应存在**少量间隙 (backlash)**。

检查方法：用手指固定耗材齿轮，同时轻轻晃动驱动齿轮。齿轮之间应有少量摆动。如果感觉非常紧且不顺畅，请拆开重新安装。如果仍然转动困难且没有间隙，可能是打印件存在问题。

注意：不要使用收缩设置打印这些零件，这些部件已针对**ABS/ASA**材料在100%填充率下优化。



挤出机组装

取一颗 **6×3mm N52 磁铁**，将其推入 **中体组件 (Mid-body)** 的侧面。

为增加稳固性，可以在磁铁上点少量 **瞬间胶**，防止在操作过程中滑出。你也可以用记号笔标记磁铁的**极性**。在后续安装切割器组件 (cutter assembly) 时，其极性需与此磁铁**相斥**。

本步骤所需五金件：
6x3 N52磁铁x 1

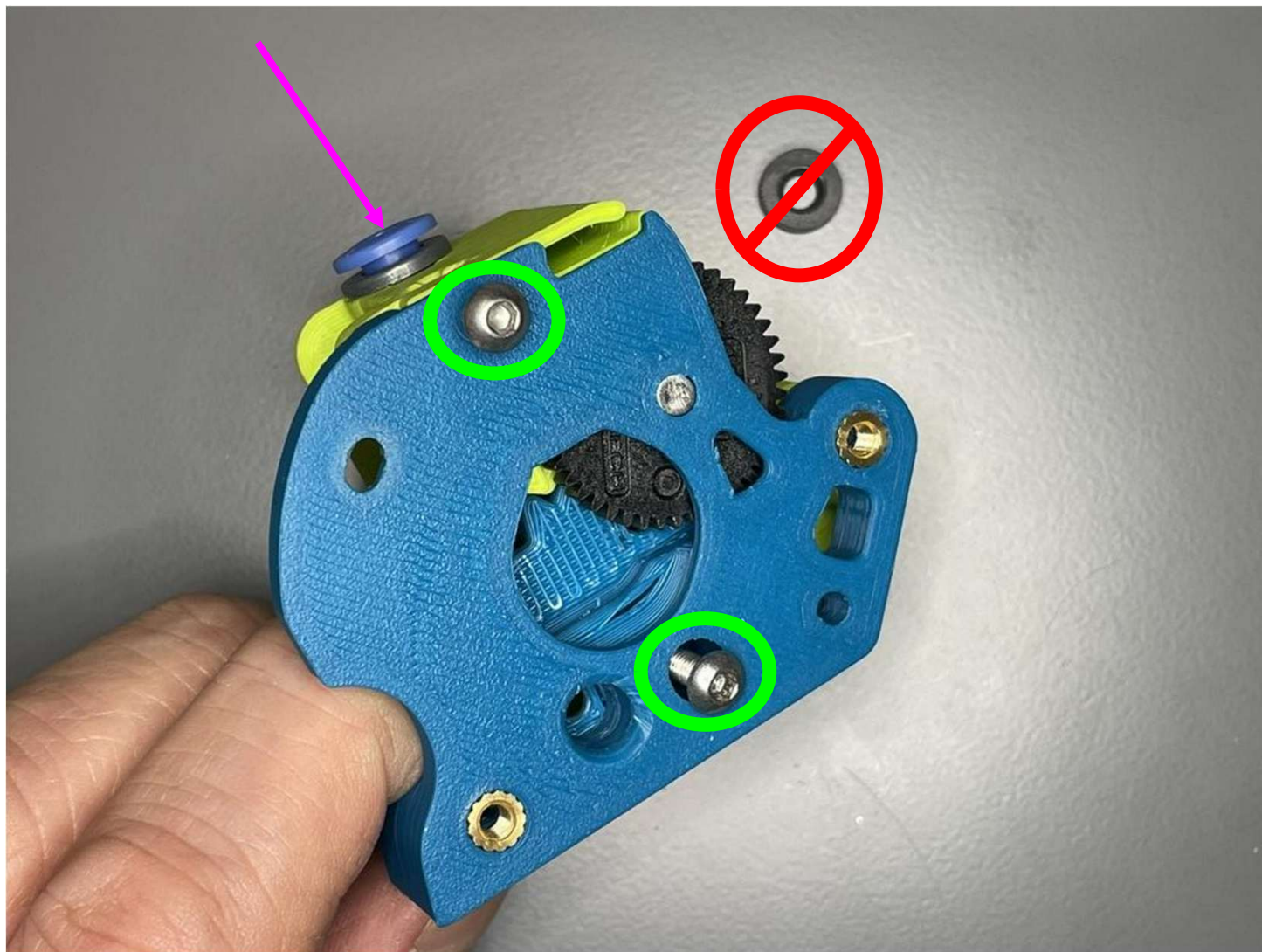


挤出机组装

使用两颗**不锈钢 M3×10 盘头螺丝 (BHCS)** 将各部件固定在一起并拧紧。

取下**ECAS连接器的橡胶件** (图片红圈处), 将其推入**中体组件 (Mid-body)** 顶部。
提示: 使用带棘轮的 C 型夹可均匀施压, 也可以将其放在平整的坚固表面上压入。

本步骤所需五金件:
不锈钢M3x 10 BHCS螺丝x 2
ECAS连接器x 1



挤出机组装

接下来，组装 **Guidler**。

首先，将 **LDO PEEK 套管轴承** 插入第二个**无螺纹 Orbiter 齿轮** 中。然后，将齿轮与 **Guidler** 上的槽对齐，并使用 **M4×16 定位销** 固定到位。

最后，安装 **M3×6 平头内六角螺丝 (FHCS)**，拧紧至与 **Guidler** 平面齐平——此螺丝将在后续用于调整耗材夹持距离。

本步骤使用的五金件：
LDO PEEK套管轴承x 1
无螺纹Orbiter齿轮x 1
M4×16mm定位销x 1
M3×6mm FHCS螺丝x 1



挤出机组装

DO 张紧弹簧 (Tensioner Spring) 可以先放在一旁，或者按图示方式插入。确保 **定位销** 与两侧齐平。

组装完成 **Guidler** 后，将其放置一旁备用。

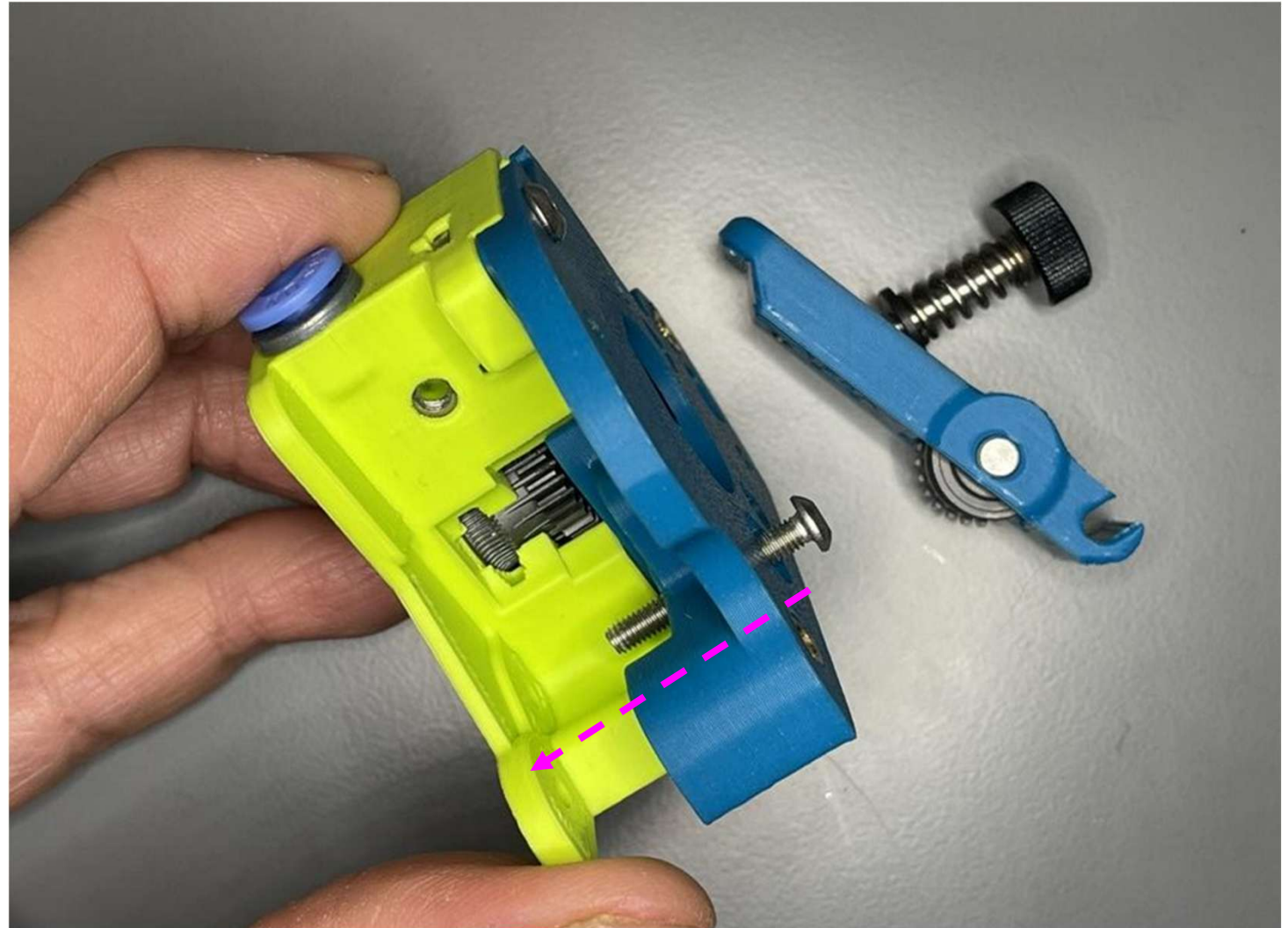
本步骤使用的五金件：
LDO 张紧弹簧 x 1



挤出机组装

Install a M3x20mm SHCS hinge pin until it is bridged across the two parts (do not overtighten this screw).

The Guidler assembly is designed with a hook so it can be accessed without complete disassembly. This is done by unscrewing the LDO Tensioner Screw and unhooking from the hinge pin.



Hardware used in this step:
(1) M3x20mm SHCS

挤出机组装



Take the guider assembly, and tilt the hook side back as shown, and snap into the screw hinge pin.



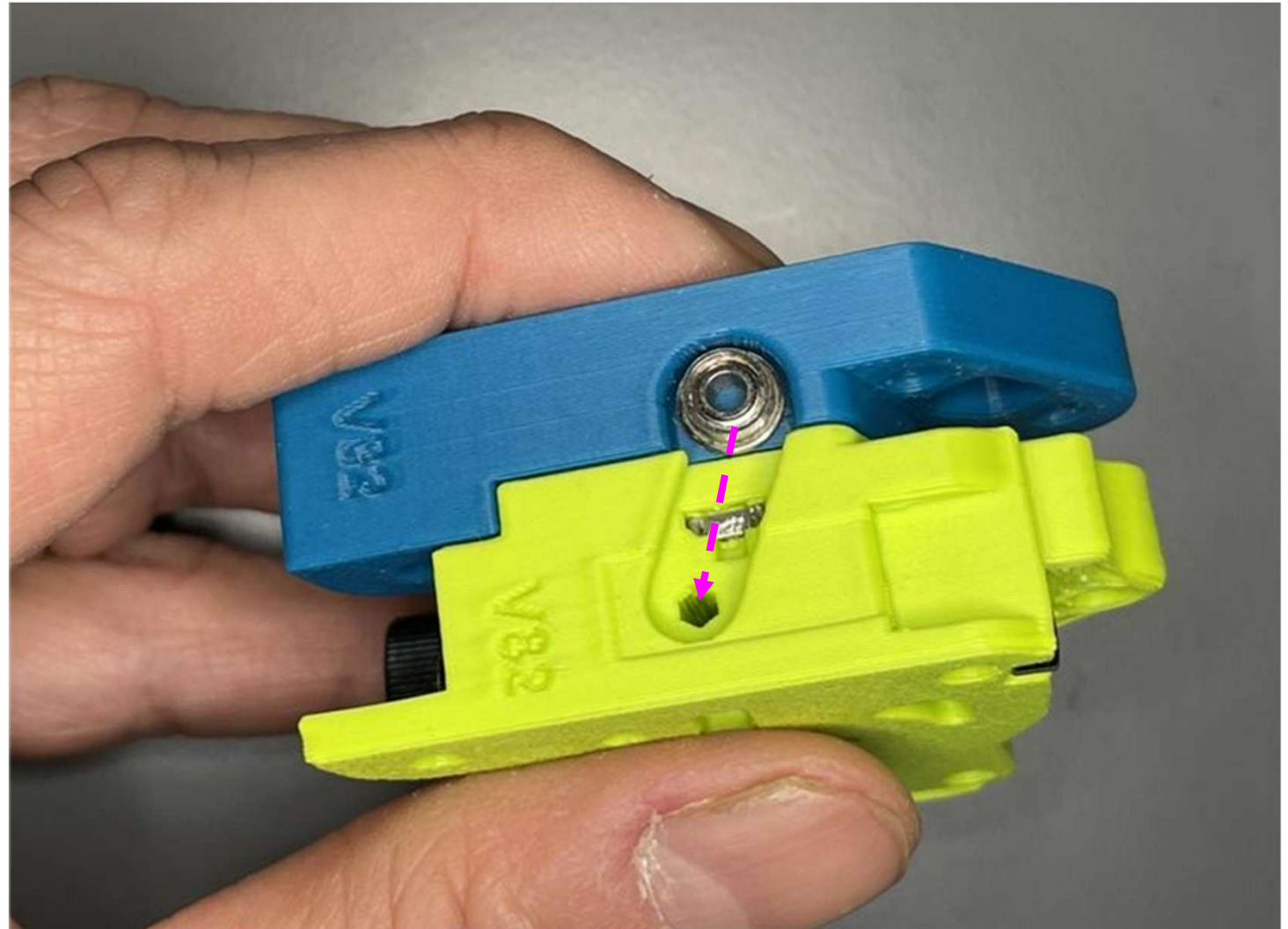
Complete the guider installation with the LDO Tensioner Spring

EXTRUDER ASSEMBLY

Insert the F682X-ZZ filament guide bearing into the bottom of the extruder through the cutout. Use a hex tool to push the bearing until it lines up with the filament hole. It is a snug fit and should not move after it is in place.

Ensure that it lines up with the filament hole. If it does not inspect the channel for an debris that might prevent it from pushing all the way through.

This completes the Extruder Assembly



Hardware used in this step:
(1) F682X-ZZ

EXTRUDER FRONT COVER ASSEMBLY

To start the front cover assembly we will mount the LED and filament sensor switches onto the electronics mount. Insert the single pre-wired Neopixel LED into the electronics mount as shown.

The fit is snug, what is most important is the wires are kept close together and that the LED sits in the channels. Don't force the wires into the void.



Hardware used in this step:
(1) Pre-wired Neopixel LED

EXTRUDER FRONT COVER ASSEMBLY

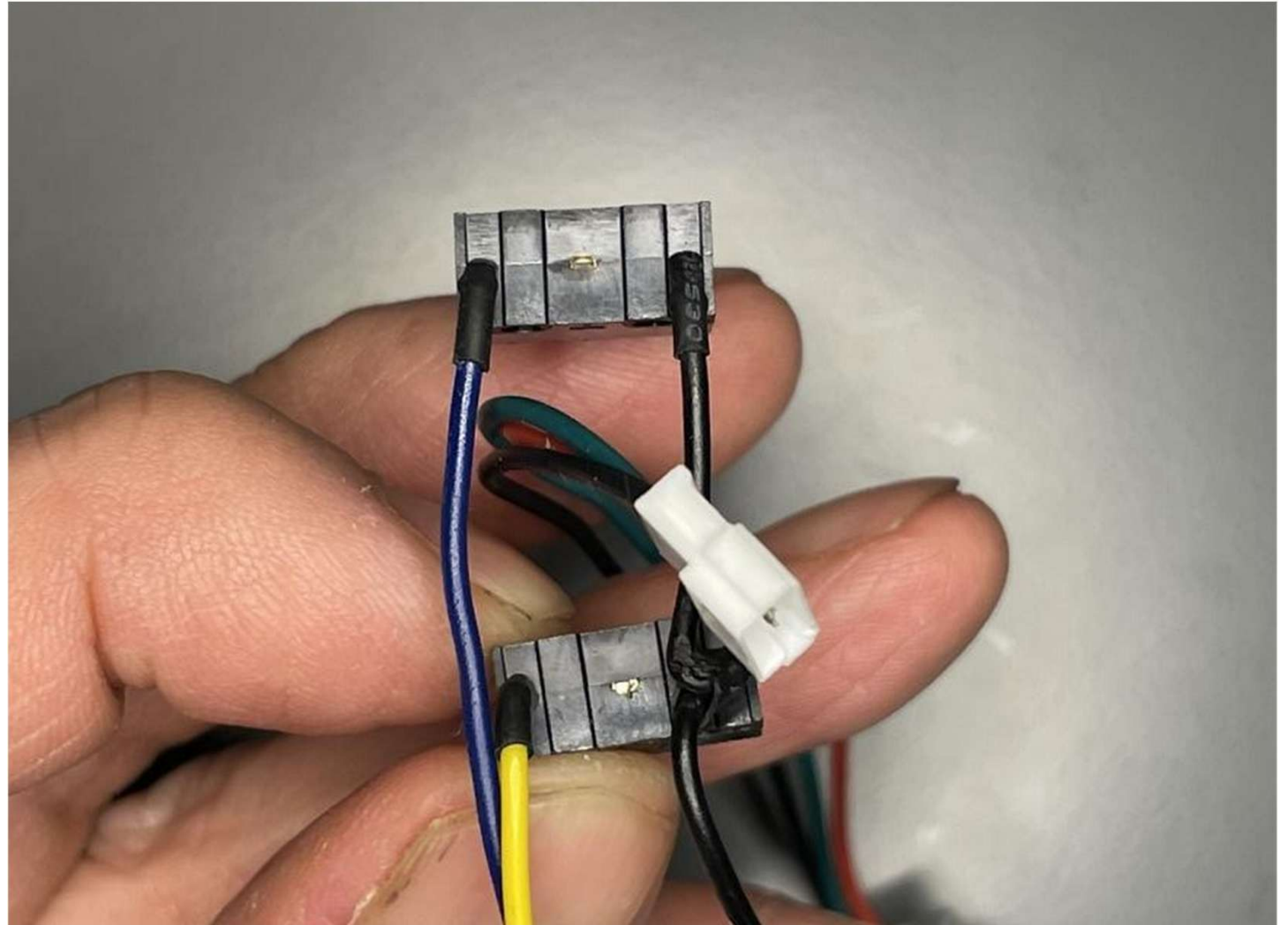
Find the pre-wired micro switches and optionally trim the pin on the switches that have the yellow wire (labeled as TOP). You can also bend the pin down flat. This makes it easier to feed wires between the two wires.



Hardware used in this step:
(1) Pre-wired Micro Switches

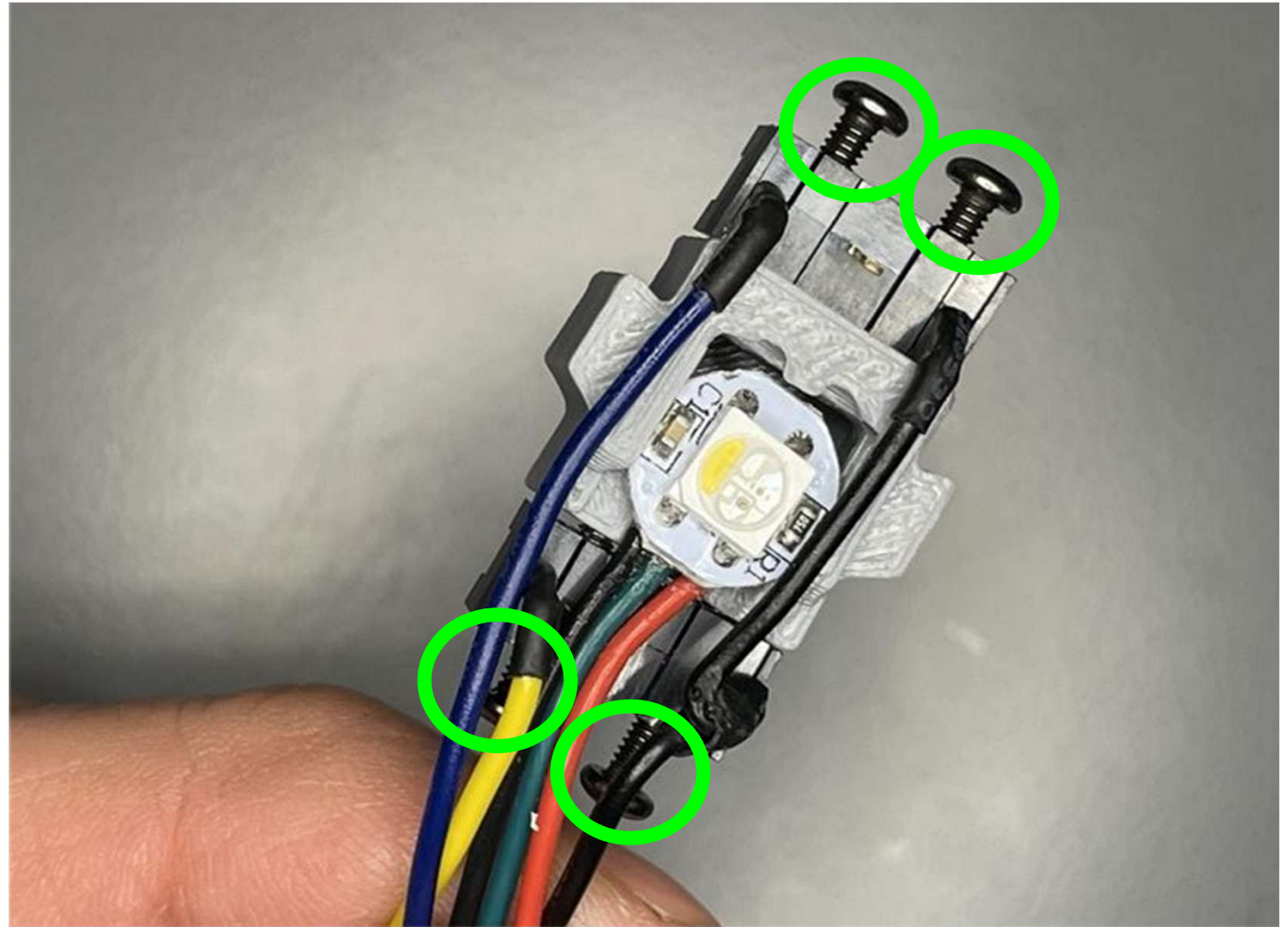
EXTRUDER FRONT COVER ASSEMBLY

Feed the assembled electronics mount LED wiring header end between the switches. The wires will fit between the yellow and black wire.



EXTRUDER FRONT COVER ASSEMBLY

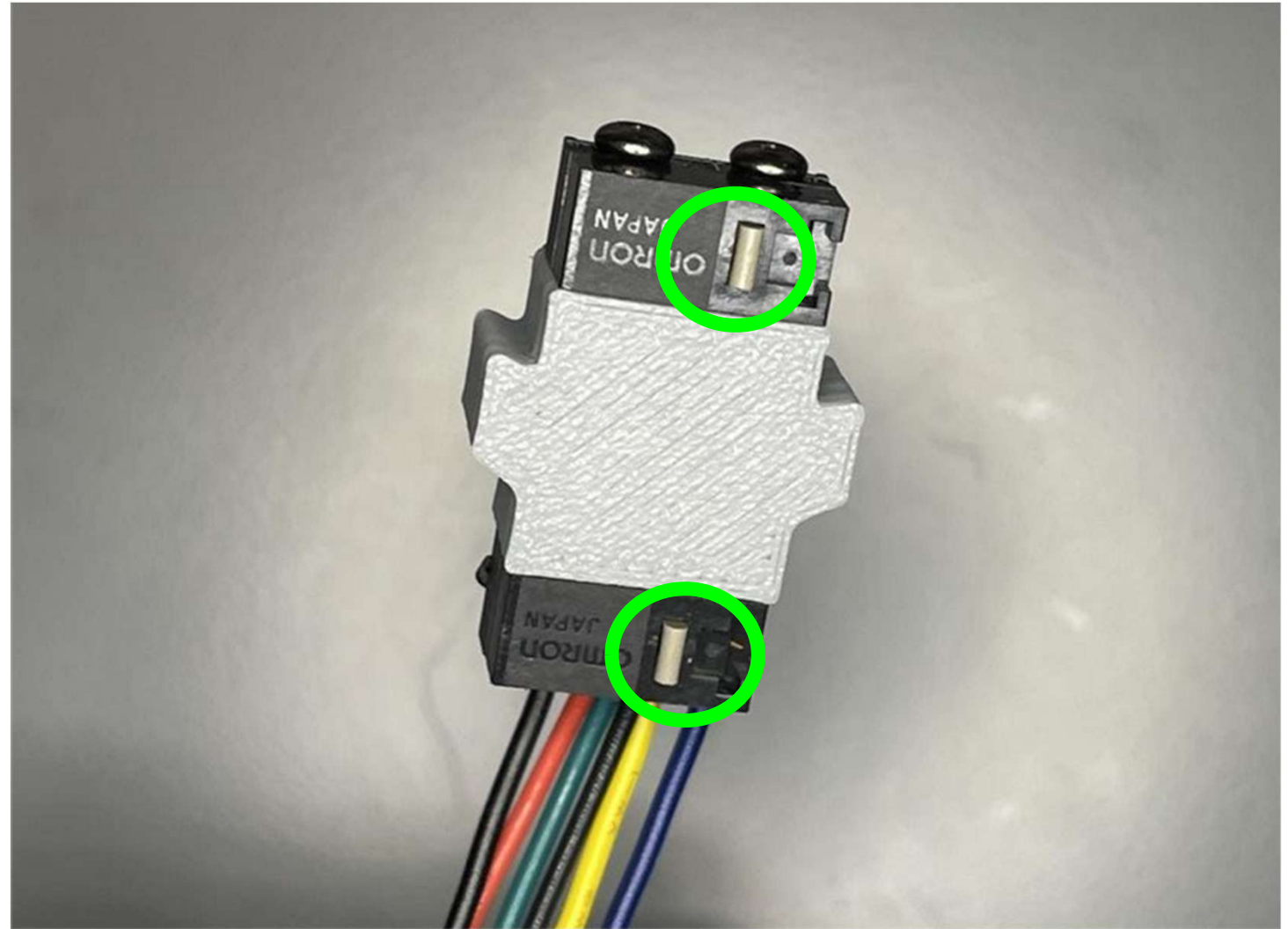
Screw into place using four M2x10 SHCS. Note that the black ground wire position on this is to the right of the assembly as pictured here.



Hardware used in this step:
(4) M2x10mm SHCS

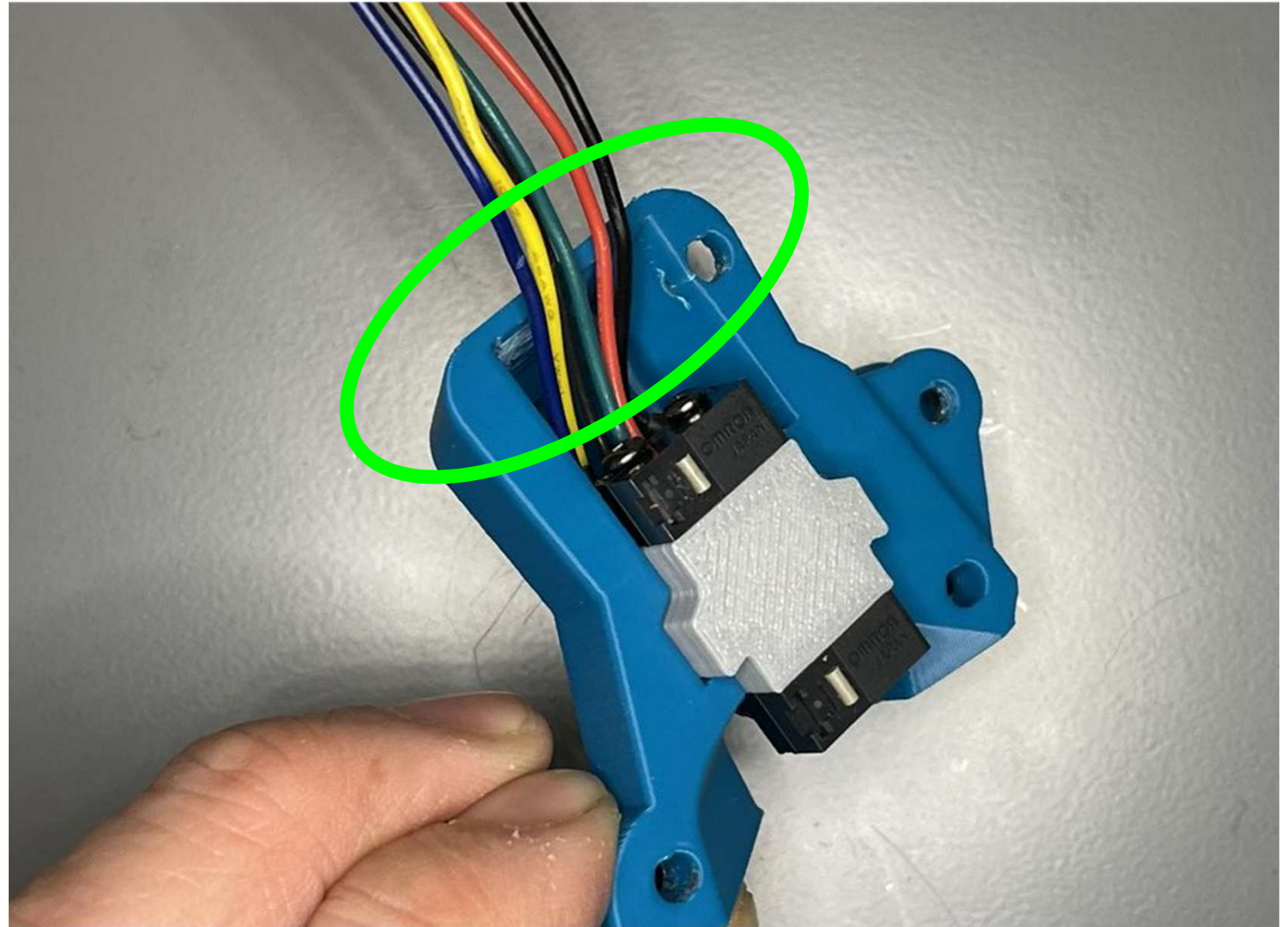
EXTRUDER FRONT COVER ASSEMBLY

Flip the assembly to check that the plungers of the switches are sitting as pictured.



EXTRUDER FRONT COVER ASSEMBLY

Install the assembled Electronics Mount into the front cover, ensuring that the wires are oriented upward, as they will be routed through the assembled extruder.



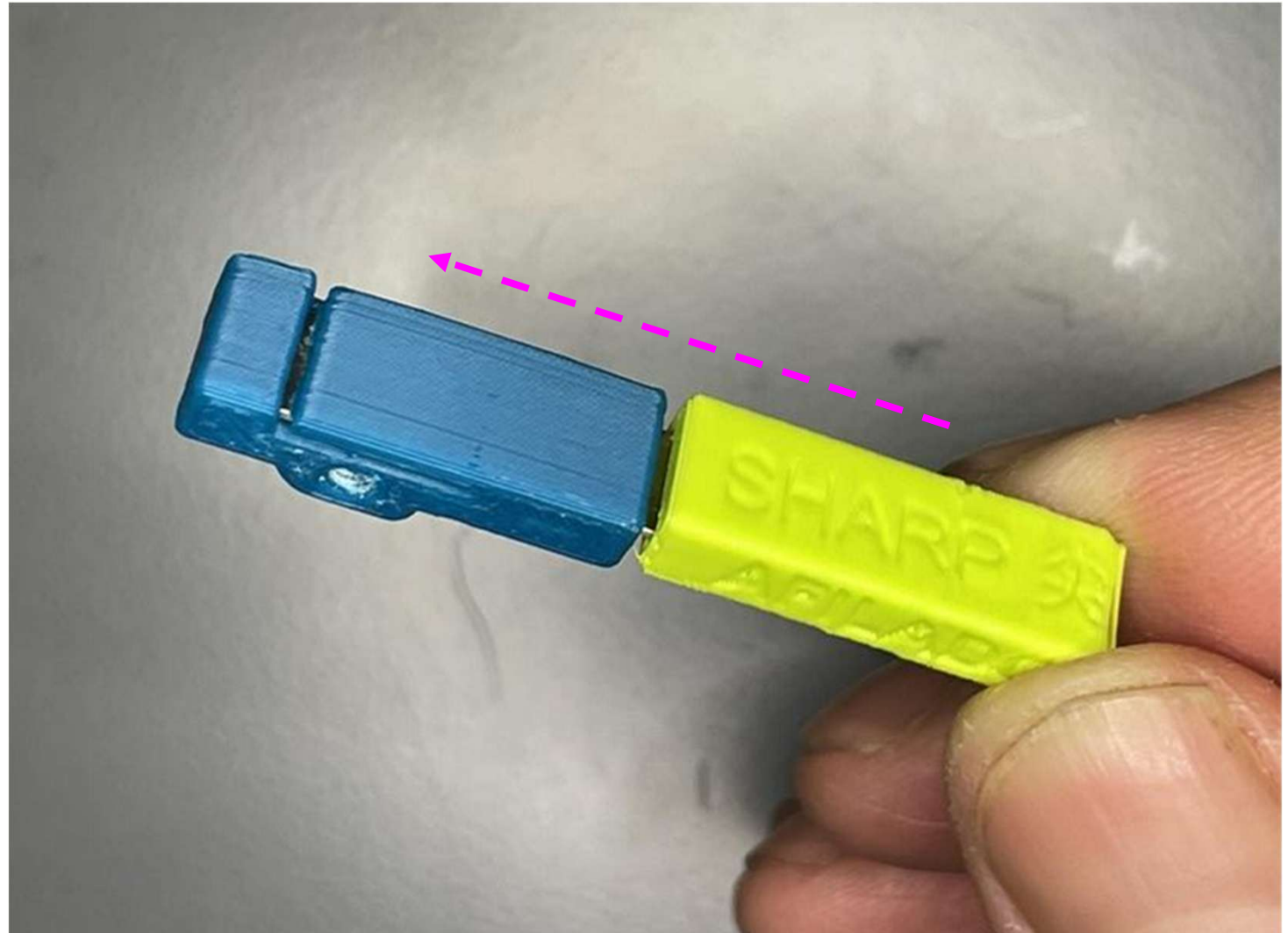
EXTRUDER FRONT COVER ASSEMBLY

Next, we'll assemble the filament cutter. Begin by installing the **#4 blade**—carefully load press it into the blade carrier using the blade installation tool with the cutting edge inserted into the safety tool (yellow). The carrier is a compliant mechanism that will lock into the hole of the **#4 blade** to prevent it from falling out.

It is recommended to print a new blade carrier when you need to replace the blade.

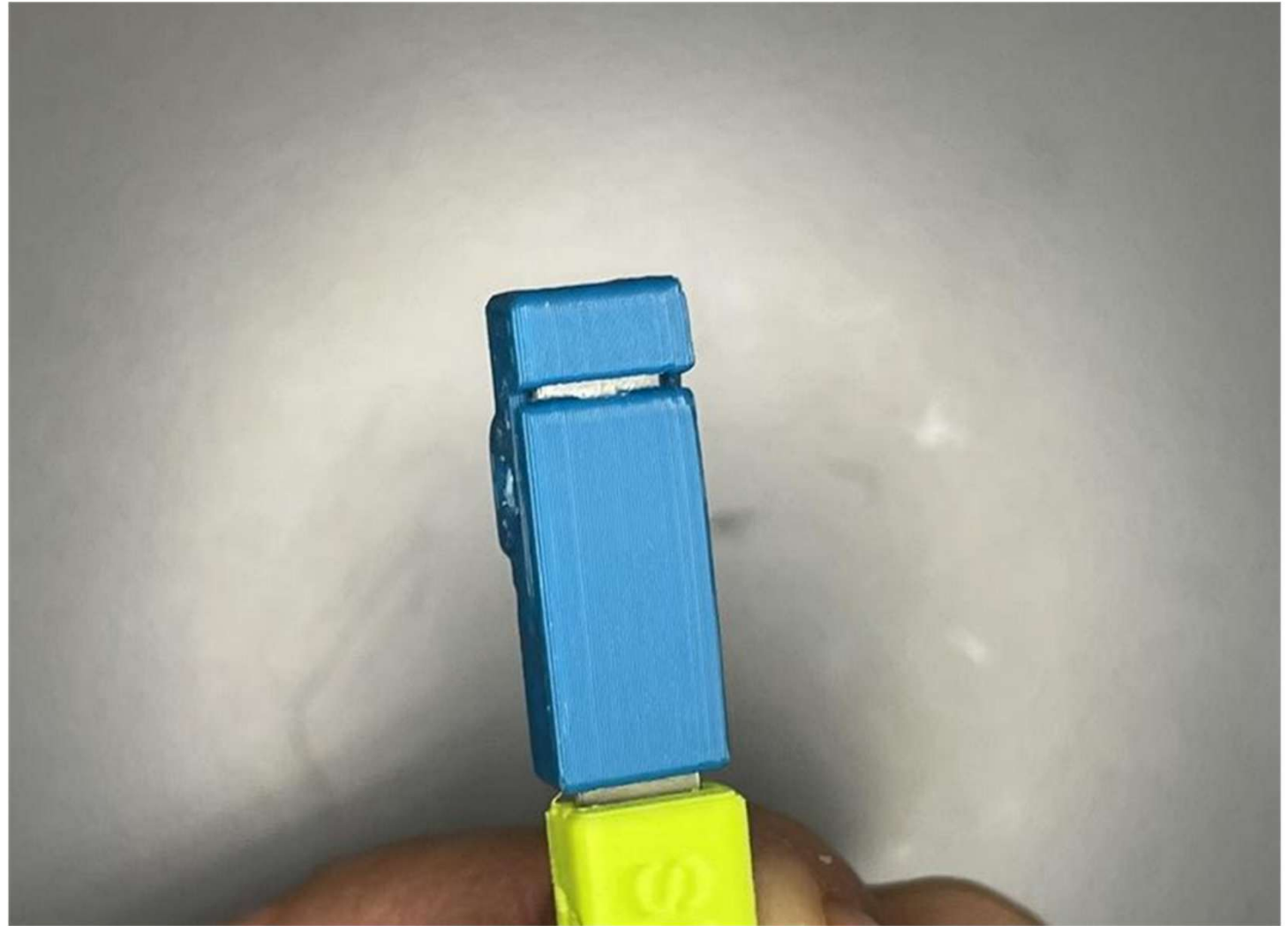
Each blade can last between 6,000-8,000 cuts depending on the type of filament used (on average about 30-40 average sized multi-colour projects).

Hardware used in this step:
(1) #4 Hobby Blade



EXTRUDER FRONT COVER ASSEMBLY

Inspect the gap in the image and you should see a portion of the blade there ensuring that installation was successful.



EXTRUDER FRONT COVER ASSEMBLY

Next, slide the blade carrier into the cutter arm and secure it using the M2x16 BHCS (this can also be done as a last step for safety). Install the 6x3 N52 magnet into the arm, ensuring that polarity opposes the one installed earlier (repels each other like a spring). You may add a small dab of super glue if it seems loose.

During complete assembly, if the cutter does not move easily or freely, remove the same M2x16 BHCS, remove the carrier through the arm and sand the plastic blade carrier lightly until it moves freely.



Hardware used in this step:

(1) M2 x 16mm BHCS

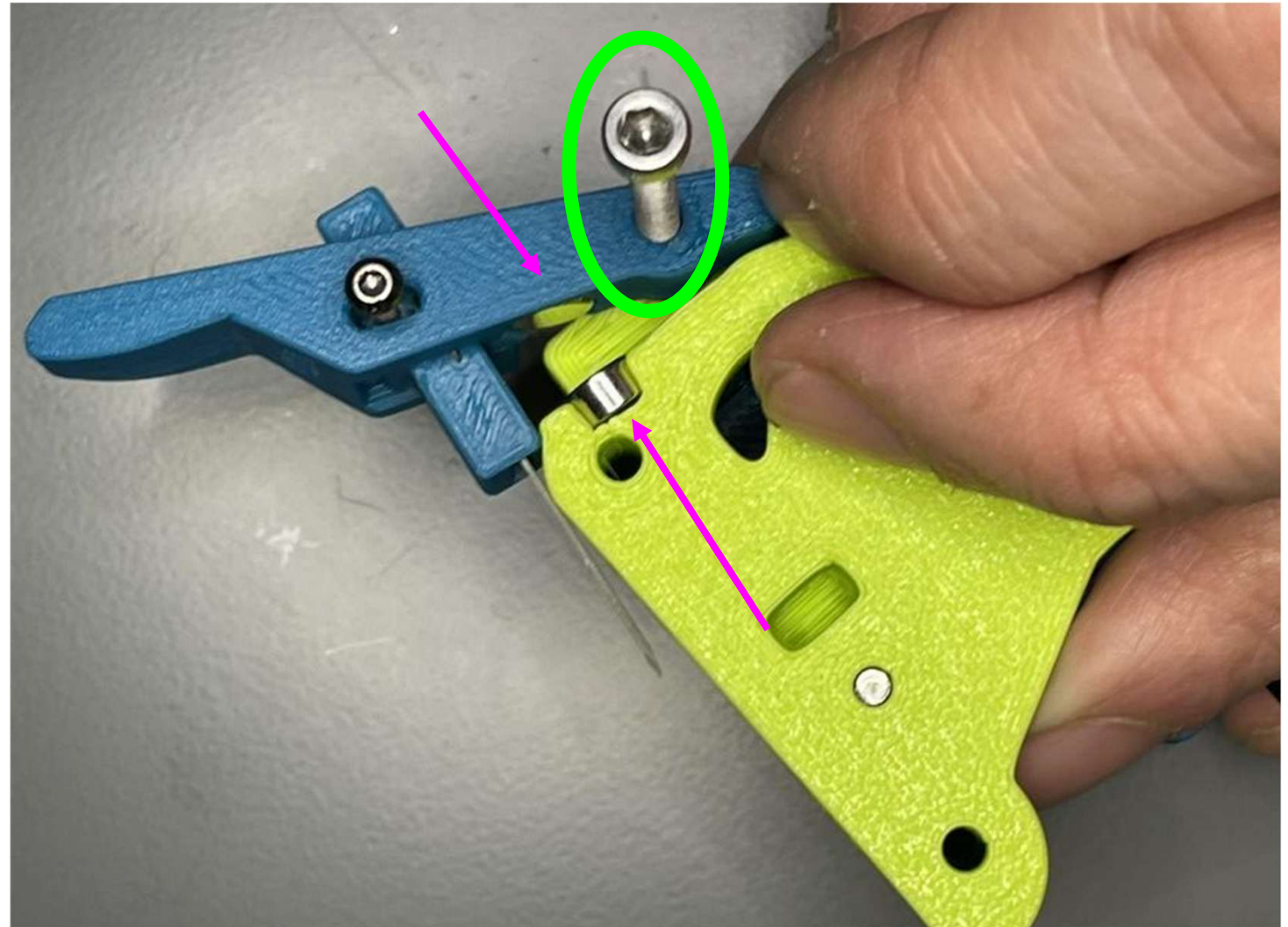
(1) 6x3 N52 Magnet

EXTRUDER FRONT COVER ASSEMBLY

OPTIONAL

You can temporarily install the arm with a M3x40 BHCS and check that the magnets are opposing each other while checking the action of the arm and the cutter.

At any point, by design, you can remove the cutting blade with either of the two screws for maintenance or blade exchanges.



Hardware used in this step:
(1) M3x40 BHCS

EXTRUDER FRONT COVER ASSEMBLY

Install the two MR63ZZ bearings into their designated slots on the extruder (be aware it is easy to lose your bearings here; ensure you are aware of the assembly's orientation when setting it down to prevent loss).

These bearings will engage with the switches once filament is detected.

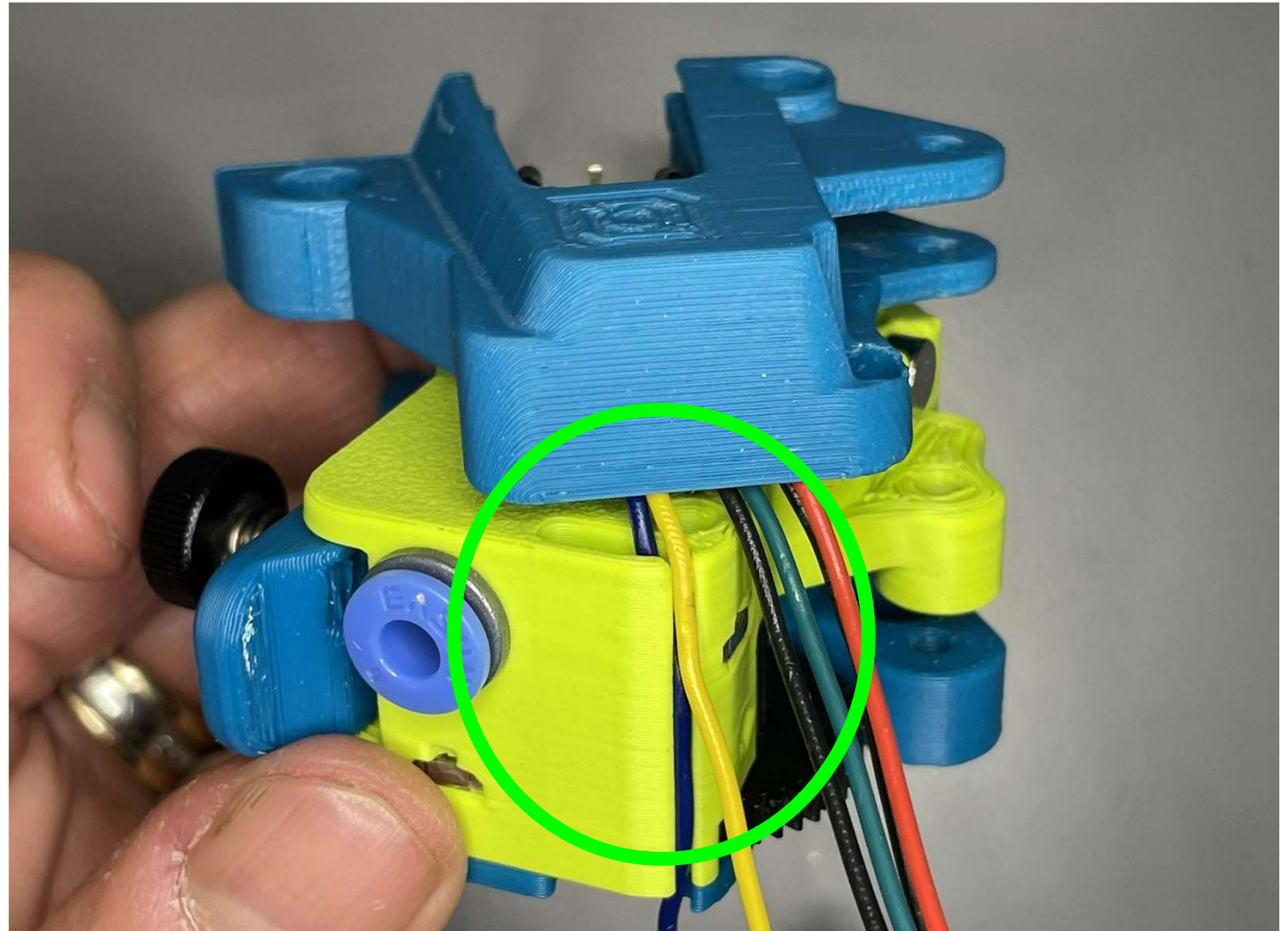


Hardware used in this step:
(2) MR63ZZ Bearings

EXTRUDER FRONT COVER ASSEMBLY

Take the front cover and carefully feed each wire one at a time. Push with filament or a hex tool into the wire channel of the mid body extruder.

Take care to keep the bearing from falling out (it is ideal to do this step with the front facing up)



EXTRUDER FRONT COVER ASSEMBLY

Insert one M3x12 BHCS through the cover and lightly tightening it to hold the assembly in place (this is a good time to check the alignment of the sensor pins to the two MR63ZZ bearings using a piece of filament to engage and listen for the clicking of the micro switches).



Hardware used in this step:
(1) M3 x 12mm BHCS

EXTRUDER FRONT COVER ASSEMBLY

Then, align the filament cutter and insert the M3x40 BHCS, tighten it just enough to keep it in position. Do not overtighten or it will interfere with the hinge movements of the entire toolhead.



Hardware used in this step:
(1) M3 x 12mm BHCS

EXTRUDER FRONT COVER ASSEMBLY

Position the LDO-36STH20-1004AH(IG8T) extruder motor with the motor wires on the latch side of the extruder. Secure it with the M3x45 SHCS, The screw should sit protruding past the motor screw hole

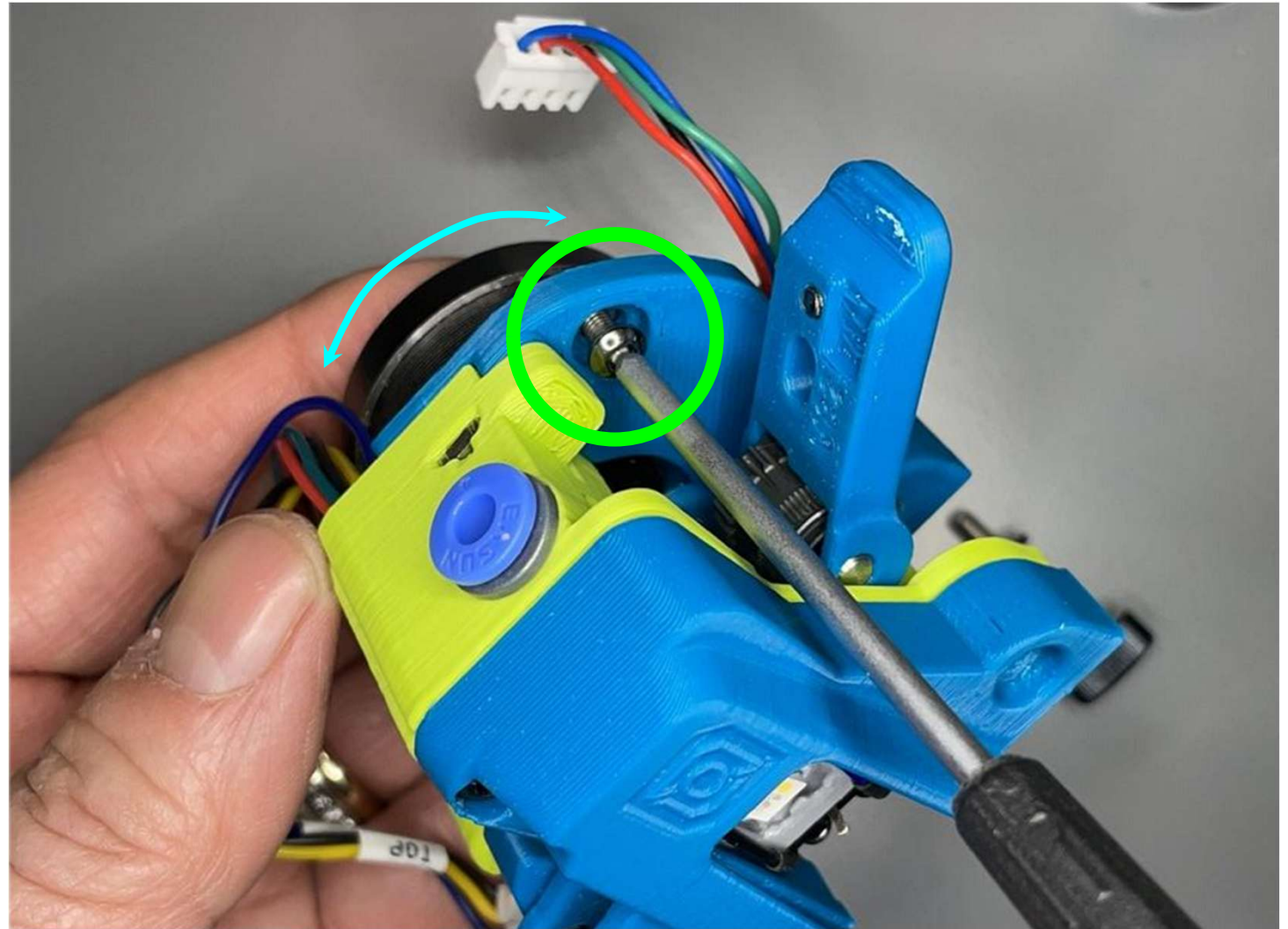


Hardware used in this step:
(1) M3 x 45mm SHCS
(1) LDO-36STH20-1004AH(IG8T)

EXTRUDER FRONT COVER ASSEMBLY

Unscrew the LDO Tensioner Spring and move the guider to the side.

Install the M3x8 BHCS and lightly tighten it. Slowly pivot the extruder motor until it makes contact with the extruder gears.



Hardware used in this step:
(1) M3 x 8mm BHCS

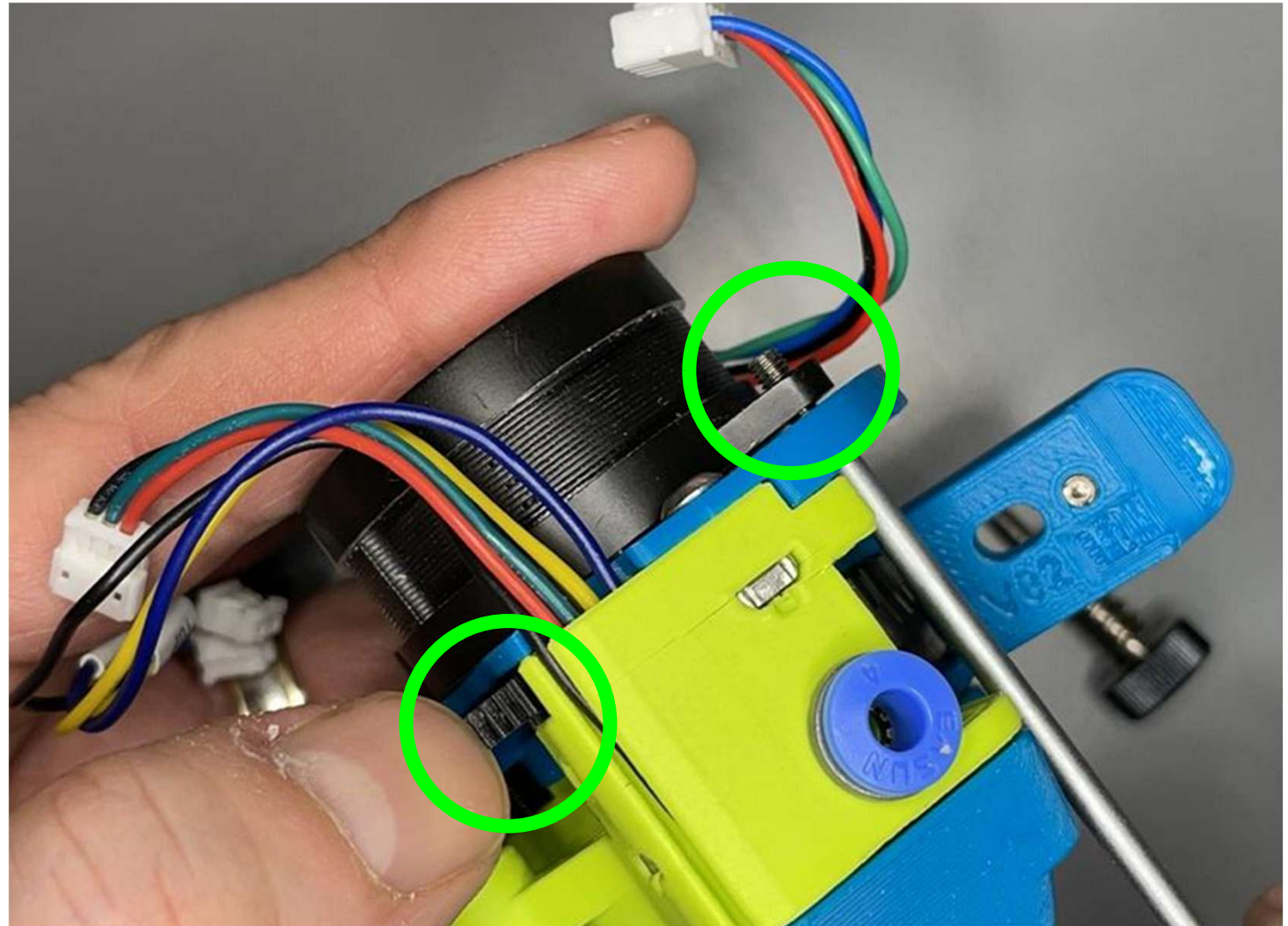
EXTRUDER FRONT COVER ASSEMBLY

To ensure proper engagement, gently rotate the exposed BondTech drive gear on the left side—this will help you find the optimal contact point between the extruder motor spur gear and the drive gears.

It is recommended that a tiny bit of movement be felt on the gear to reduce wear. You will be able to confirm that it isn't too tight if you can turn the gears with the exposed plastic drive gear. It should be smooth with a small bit of wobble (backlash) between the gears.

If you can't turn it easily, then re-adjust the screw until the wheel moves smoothly.

Hardware used in this step:
(1) M3 x 45mm SHCS



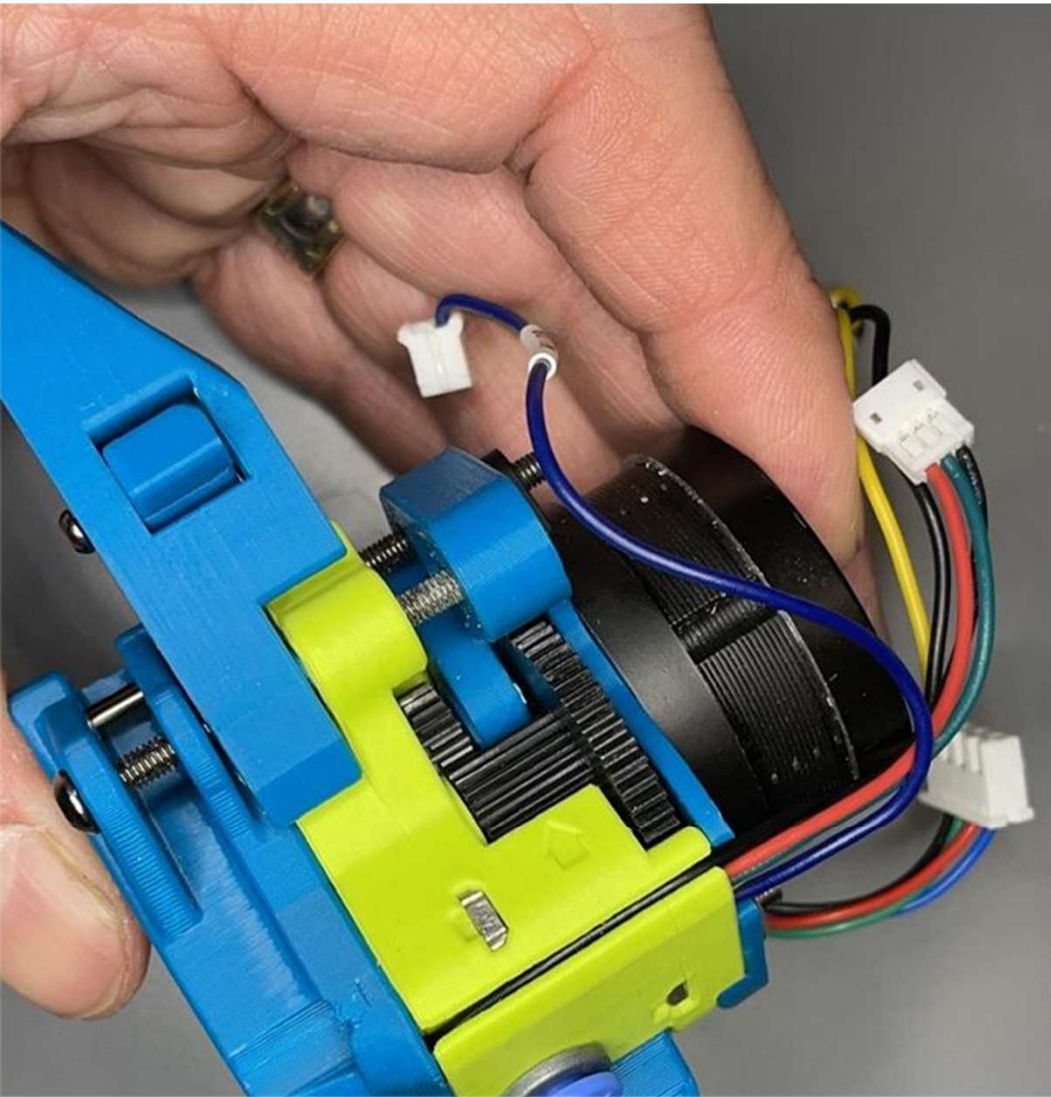
EXTRUDER FRONT COVER ASSEMBLY

Moving to the latch-side, install the extruder lever lock and secure it using an M3x35 SHCS. Do not overtighten this screw. It only acts as a hinge for your latch.

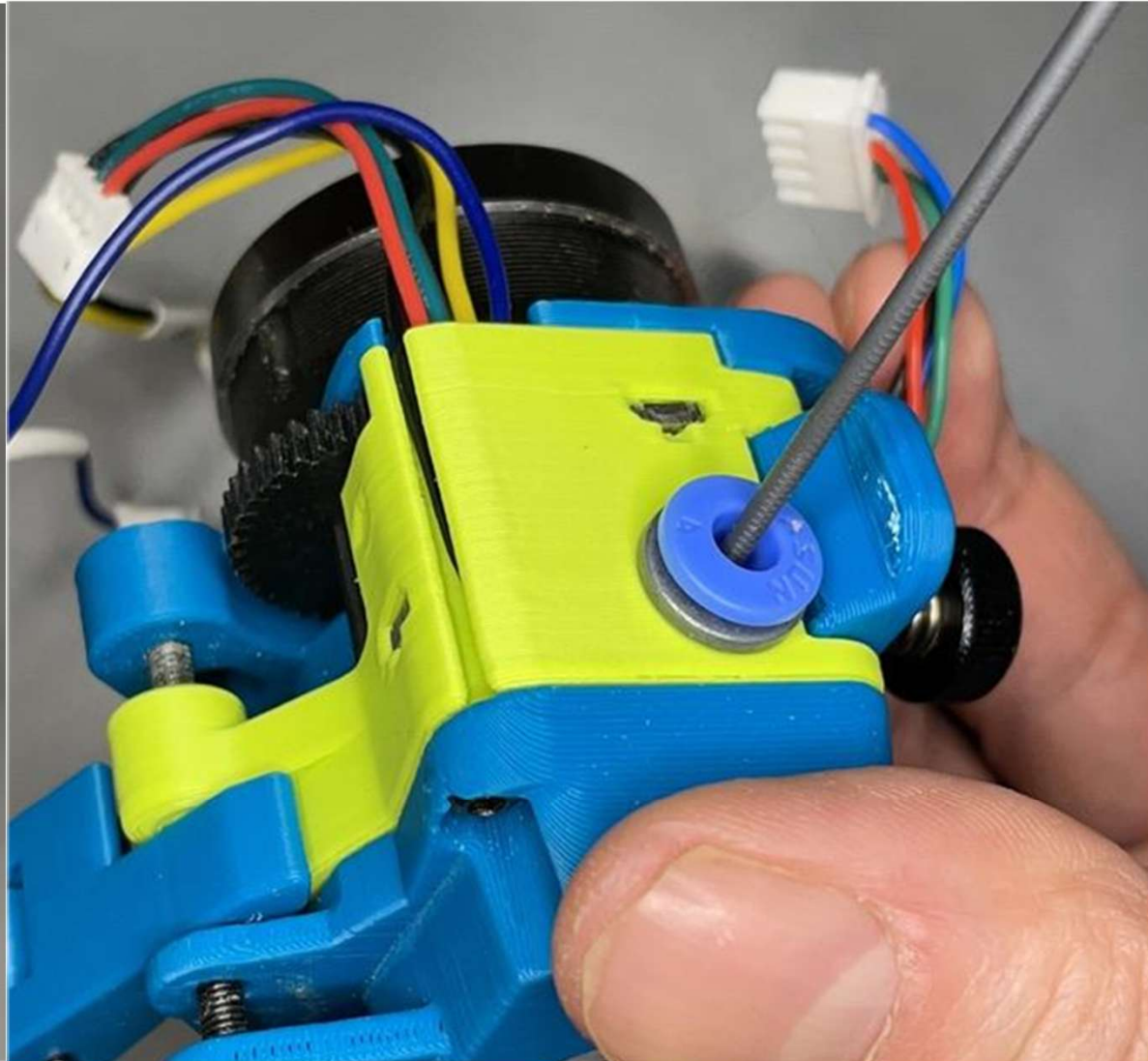


Hardware used in this step:
(1) M3 x 45mm SHCS

EXTRUDER ASSEMBLY



Check all the movements of gears and verify that there is no rubbing or binding.

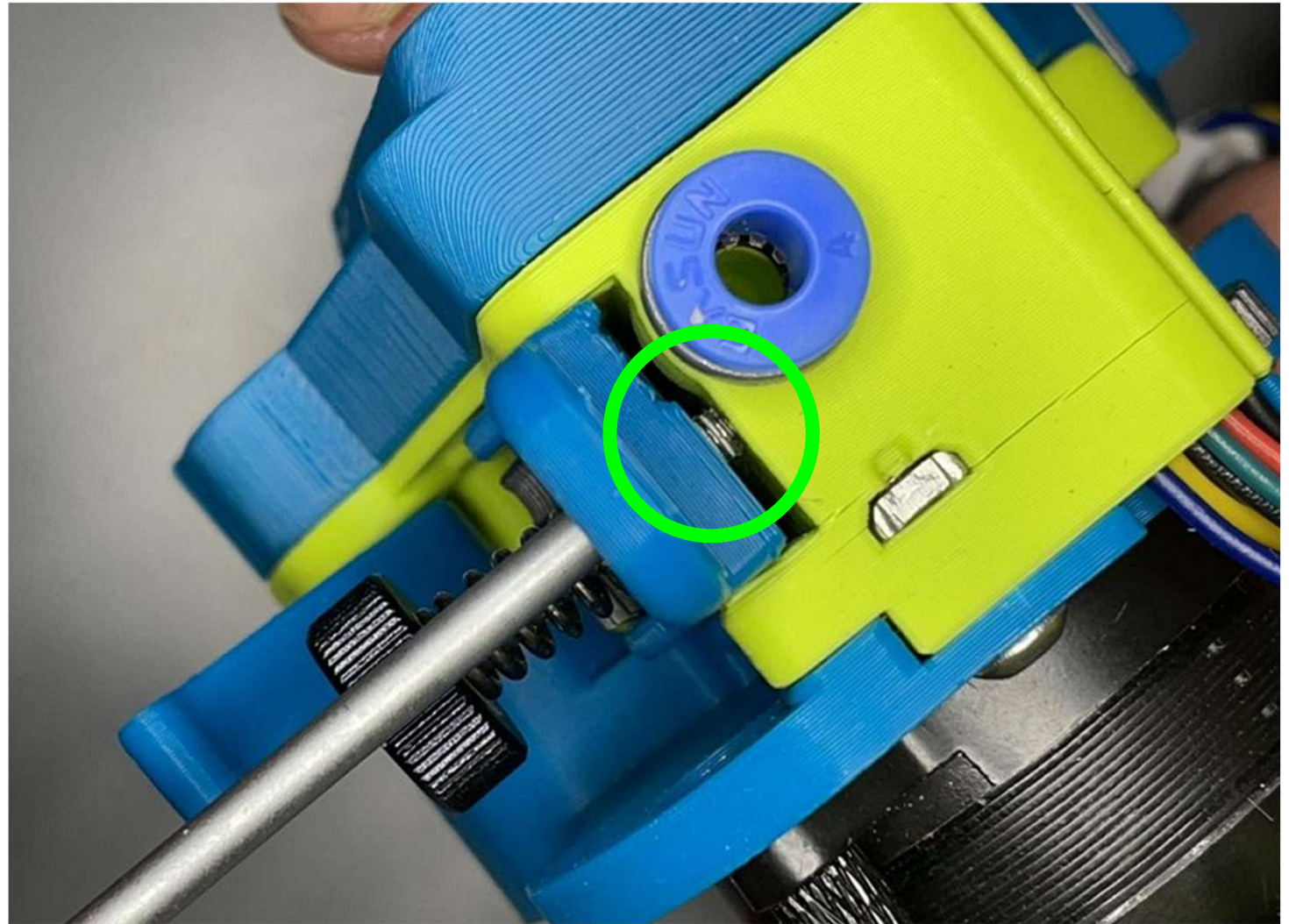


This is a good time to recheck the filament path.

EXTRUDER FRONT COVER ASSEMBLY

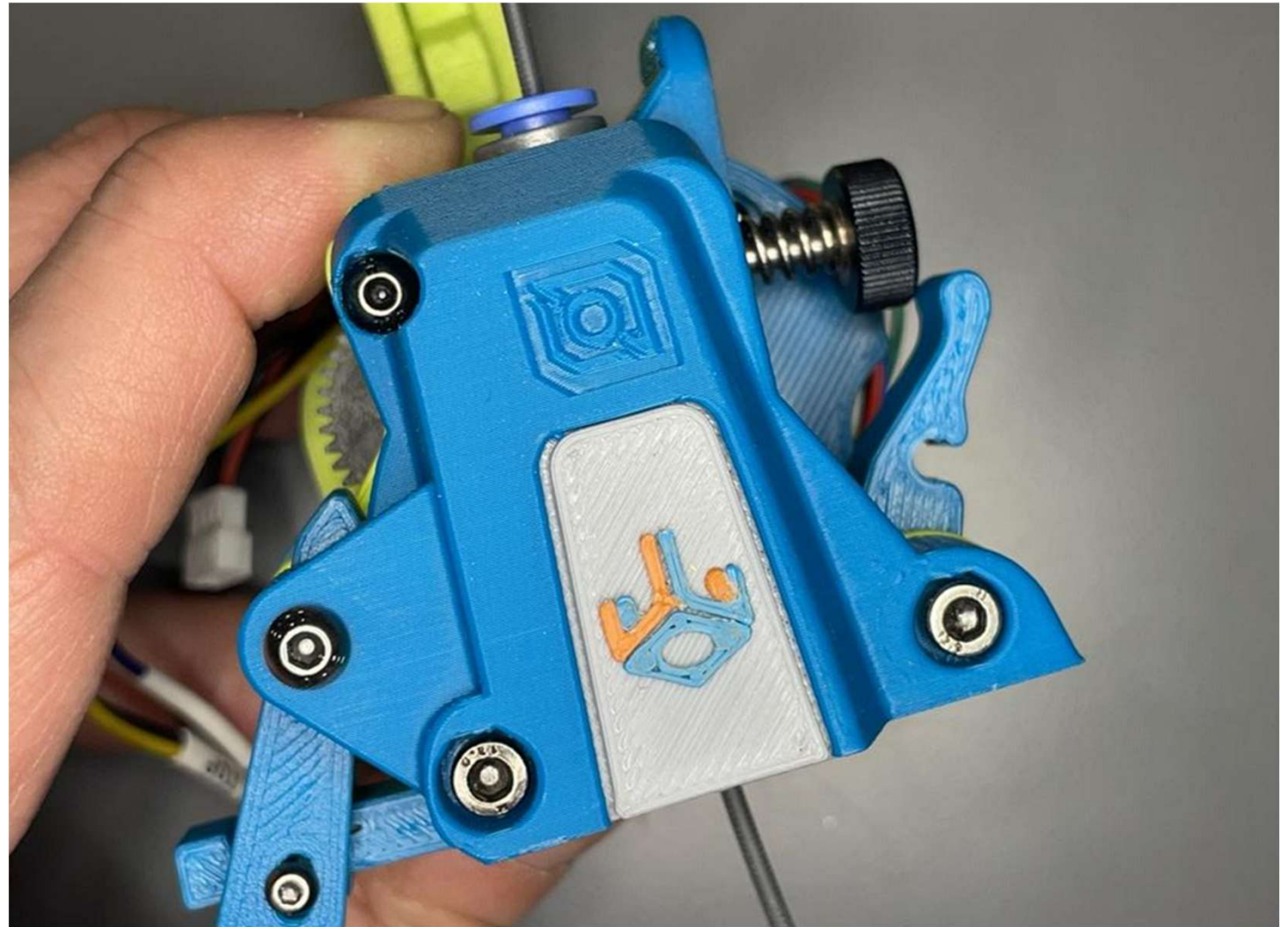
Tighten the M3x6 FHCS on the guider so you see the gap shown here. This is important for filament changer operation as it will ensure the filament loads properly.

Do not make the tension screw too tight at this point. Check with a piece of filament and see if you can push it all the way through with moderate resistance (you'll be feeling most of it from the motor). If it goes through pretty easily then loosen the M3x6 FHCS. Check again and make sure it's not giving too much resistance. Once that is calibrated to your satisfaction you can tighten the tension screw. Jabberwocky doesn't need a lot of pressure from the tensioner spring, so do not overtighten.



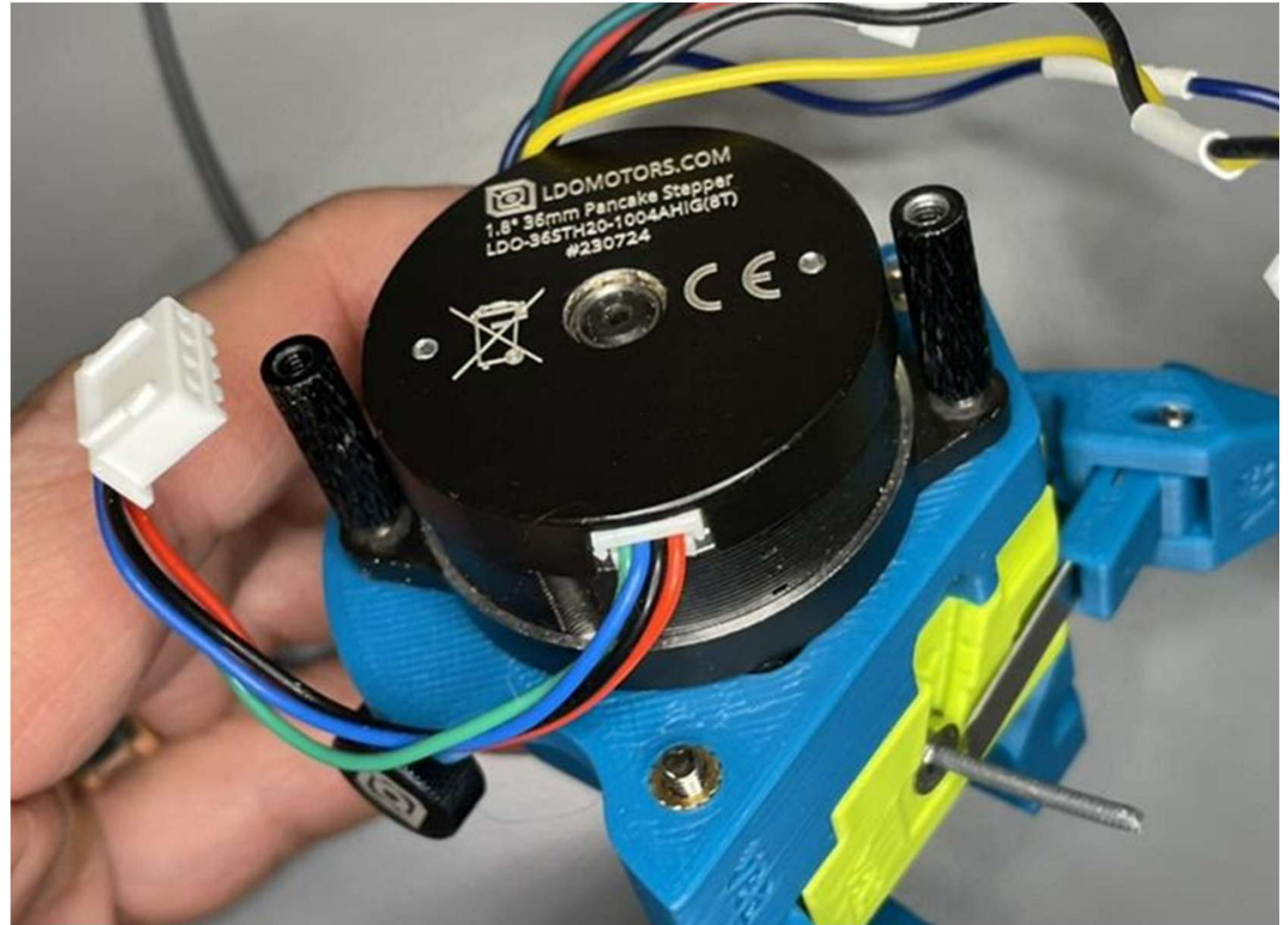
EXTRUDER FRONT COVER ASSEMBLY

Insert the front diffuser to the Front Cover Assembly. Be cautious to not pinch any wires.



EXTRUDER FRONT COVER ASSEMBLY

The last thing to do is install the toolhead board onto the extruder. Install the two M3x16 knurled standoffs (found in the Nighthawk kit) onto the screws protruding from the extruder motor.



Hardware used in this step:
(2) M3x16 knurled standoffs

EXTRUDER FRONT COVER ASSEMBLY

Add two M3 Heatsets to the NH36 mounting bracket



Hardware used in this step:
(2) M3 Heatsets

EXTRUDER FRONT COVER ASSEMBLY

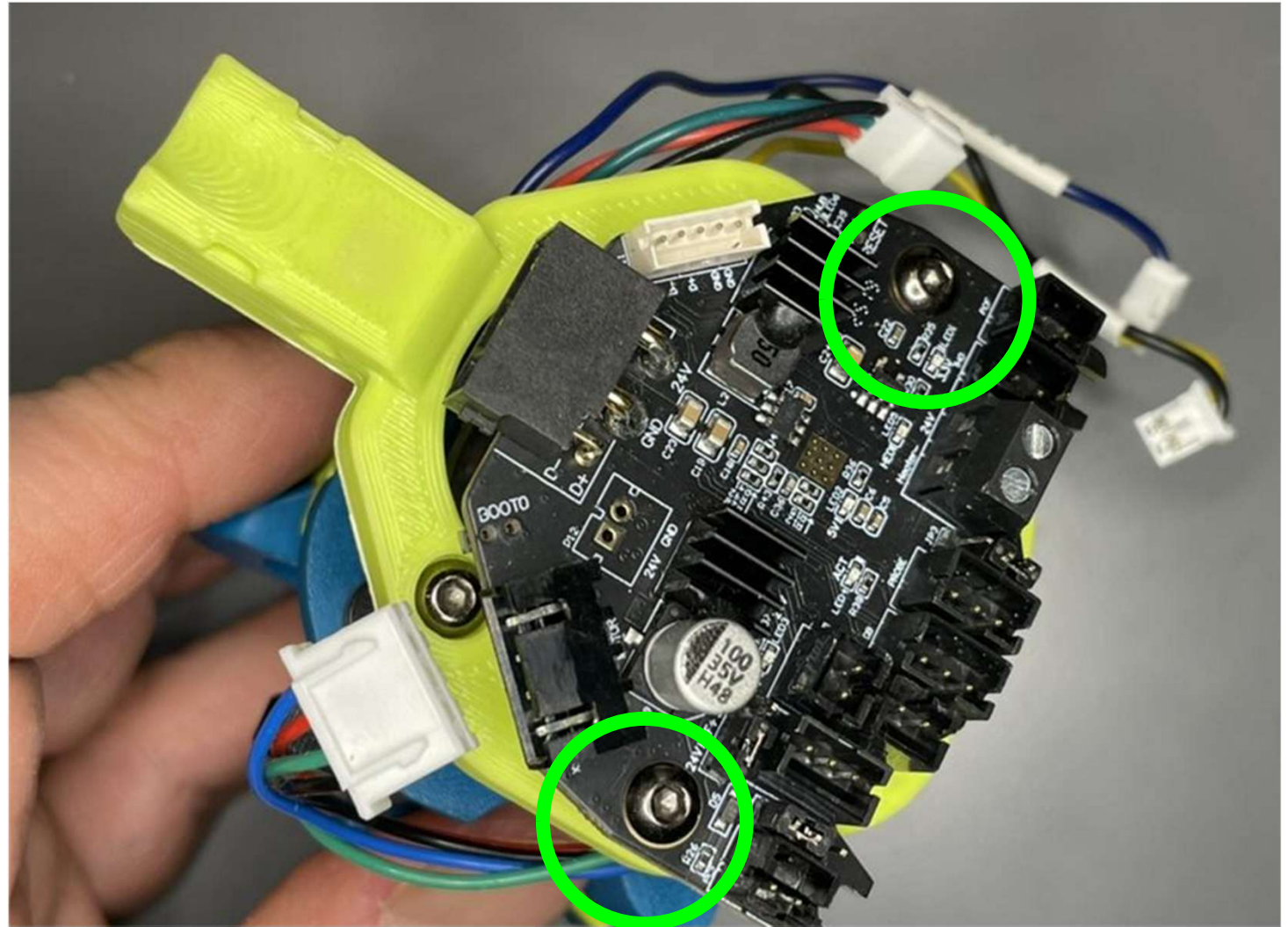
Mount the Mount bracket and secure it using two M3x8 BHCS.



Hardware used in this step:
(2) M3x8 BHCS

EXTRUDER FRONT COVER ASSEMBLY

Install the LDO Nighthawk 36 Tool Board by securing it with two M3x8 BHCS.



Hardware used in this step:
(1) LDO Nighthawk 36 Toolboard
(2) M3x8 BHCS

EXTRUDER FRONT COVER ASSEMBLY

Lastly, install the Upper Strain Relief using an M3x12 FHCS.



Hardware used in this step:
(1) M3 x 12mm FHCS

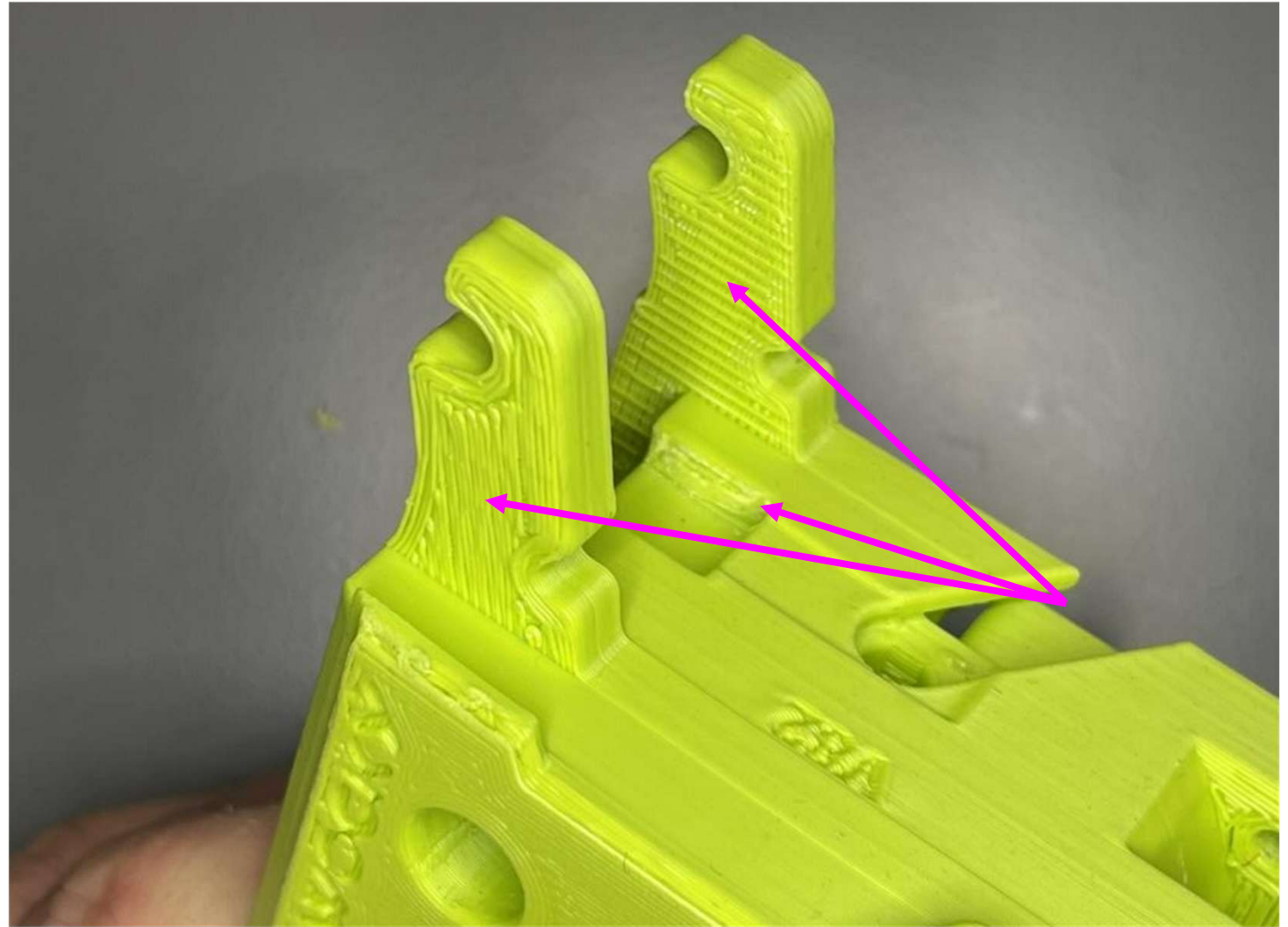
LOWER TOOLHEAD ASSEMBLY

Next, we'll begin assembling the lower toolhead, which houses the printer hotend, fans, and hotend LED.



LOWER TOOLHEAD ASSEMBLY

After removing the print supports check the hinge arms for any extra debris. You might need to do some light sanding. You can check it by sliding it into the extruder assembly.



LOWER TOOLHEAD ASSEMBLY

Begin by installing a single LDO T-Nut into the Shroud Body



Hardware used in this step:
(1) LDO T-Nut

LOWER TOOLHEAD ASSEMBLY

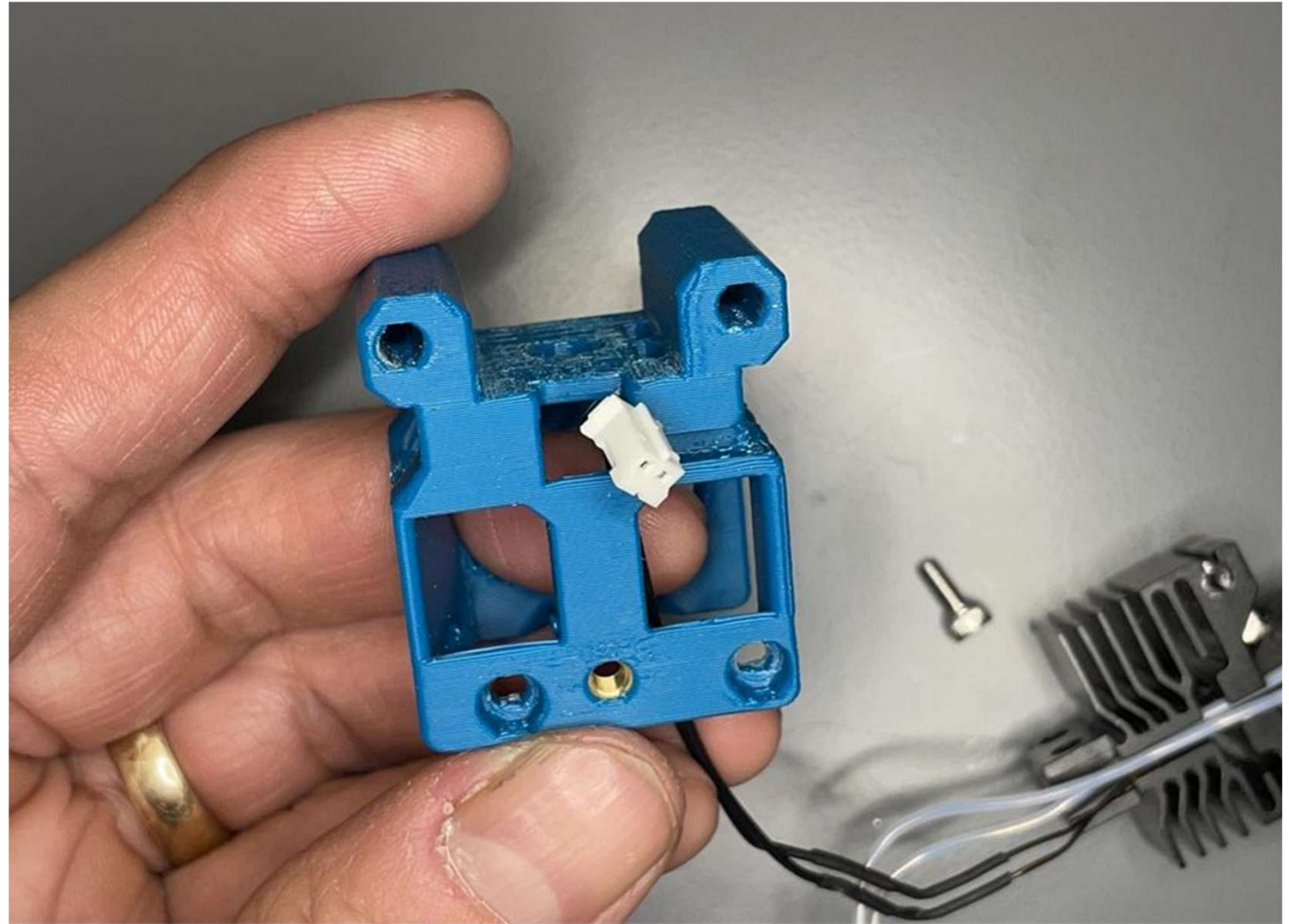
Next install a M3 Heat-set inserts into the Conch Mount. Due to limited space, a standard heat-set soldering tip cannot be used here—gently press the insert in using the side of the soldering iron. Take your time to ensure the insert sinks in evenly and does not tilt.



Hardware used in this step:
(1) M3 Heat-Set

LOWER TOOLHEAD ASSEMBLY

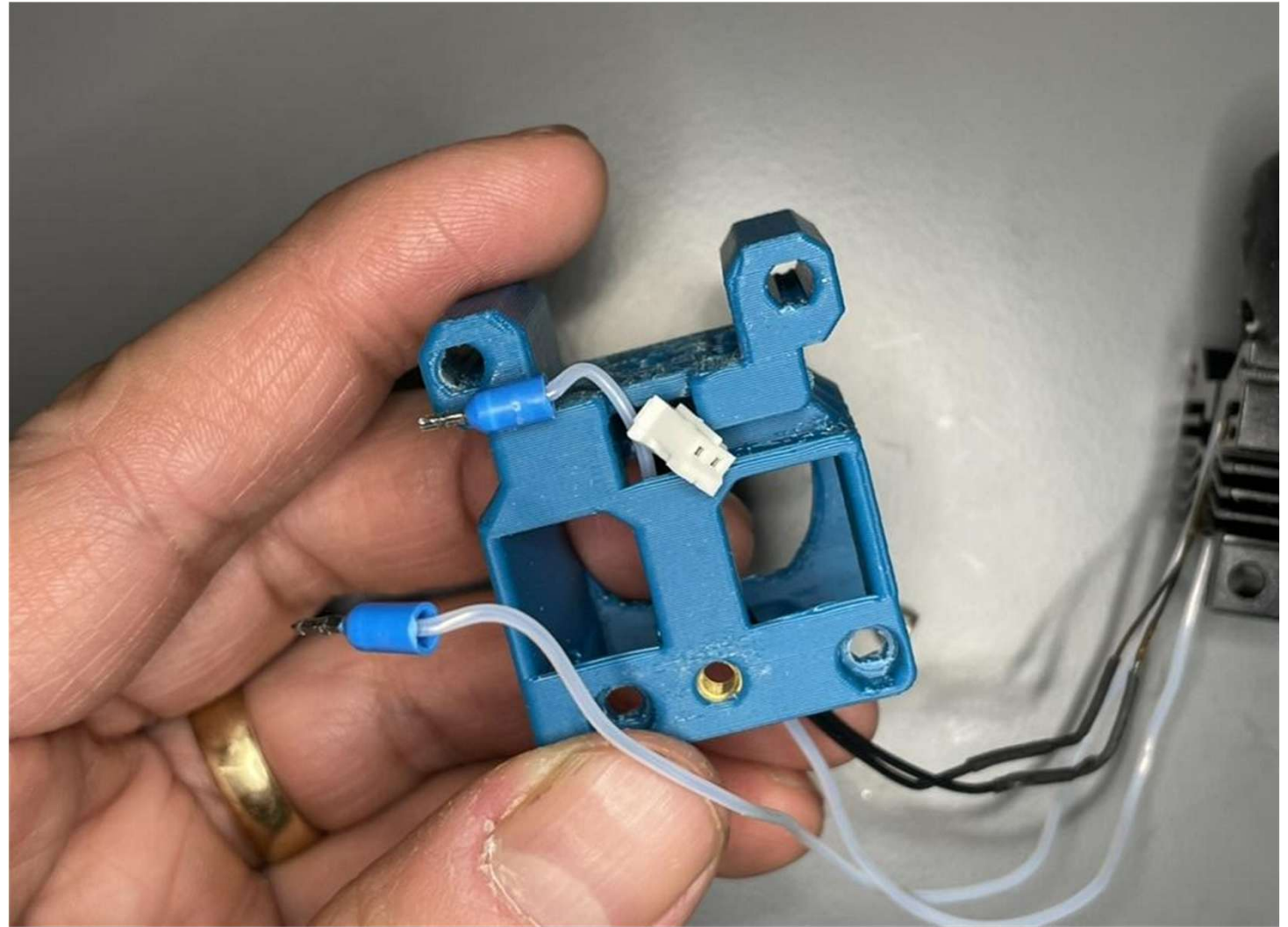
Next step is to take the Conch Hotend Thermistor wire header and push through the mount as shown in the image.



Hardware used in this step:
(1) Conch Hotend

LOWER TOOLHEAD ASSEMBLY

Feed each of the Conch Hotend heating wires one at a time as pictured here.



LOWER TOOLHEAD ASSEMBLY

Once all the wires from the Conch Hotend are in the mount, make sure all the wires are sitting tidy in the channel of the Conch Hotend as you carefully slide the parts together



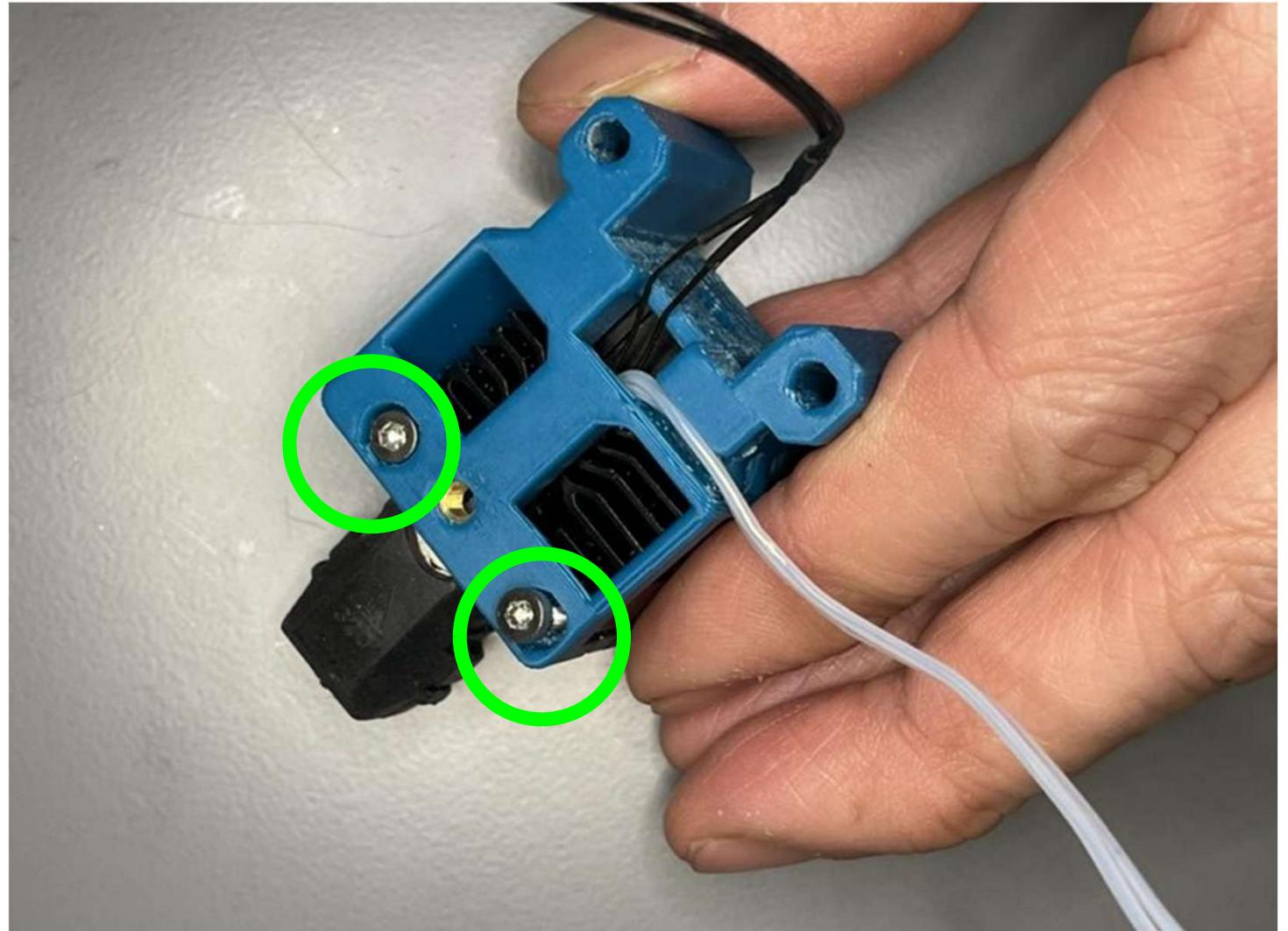
LOWER TOOLHEAD ASSEMBLY

Separate the wires carefully with the Thermistor wires going up, and the heating wires going to the side as pictured here.



LOWER TOOLHEAD ASSEMBLY

Insert two M2.5x8 SHCS to the lower portion of the Conch Mount



Hardware used in this step:
(2) M2.5 x 8 mm SHCS

LOWER TOOLHEAD ASSEMBLY

Next, we'll install the LEDs that illuminate the hotend. Start by placing the pre-wired Neopixel LEDs into the printed Dual Neo Holder. To ensure a proper fit, gently bend the wires at the center so the LEDs can drop cleanly into their designated slots and for the installation of a small M2x4mm wafflehead screw.



Hardware used in this step:

- (1) LDO Pre-wired Neopixel LEDs
- (1) M2x4mm Wafflehead Screw

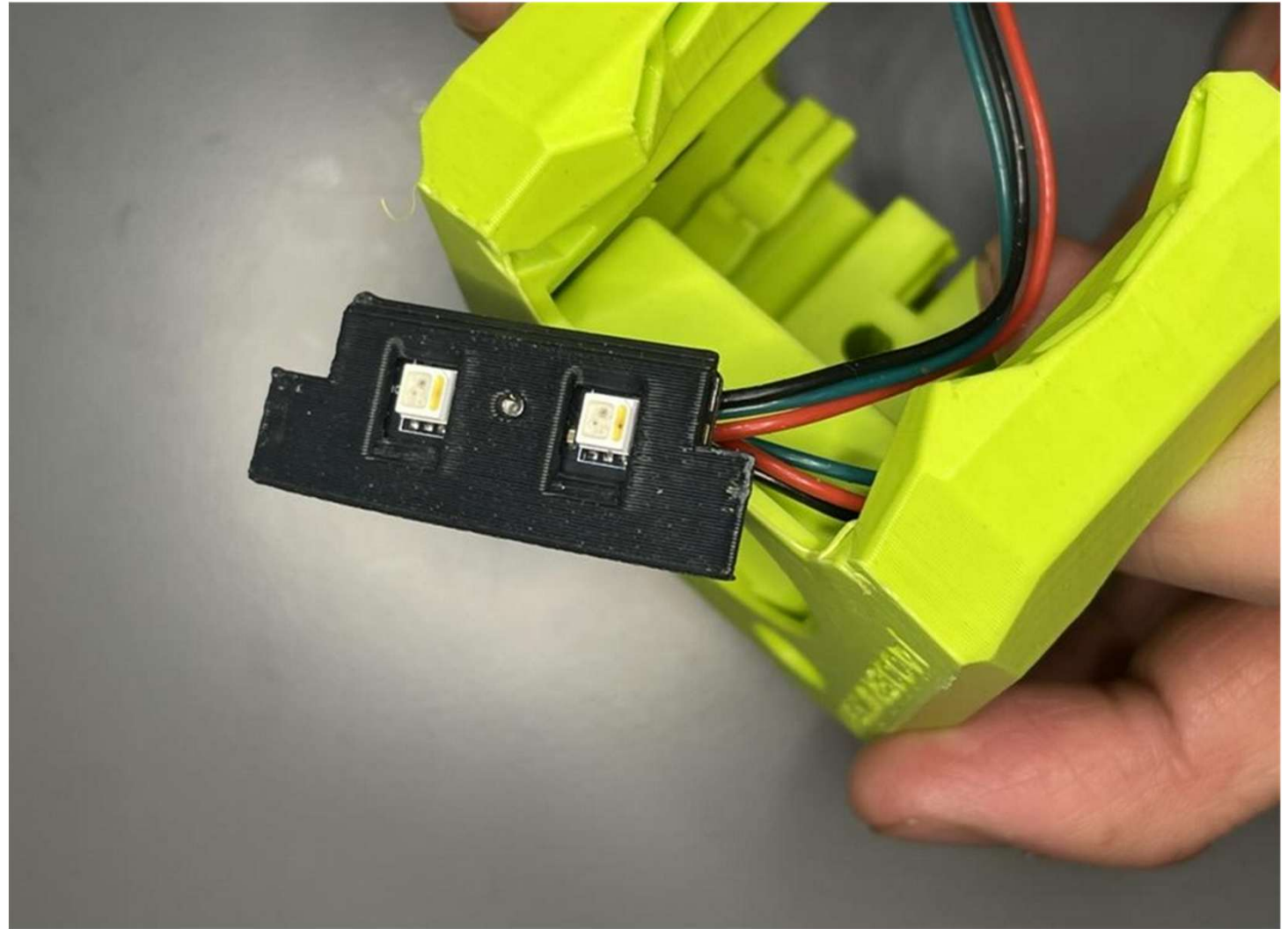
LOWER TOOLHEAD ASSEMBLY

Bundle wires as pictured while carefully bending the wires to tuck into the holder. Route the wires into the cable channels, as the fans will be installed in front of them, and space will be limited.



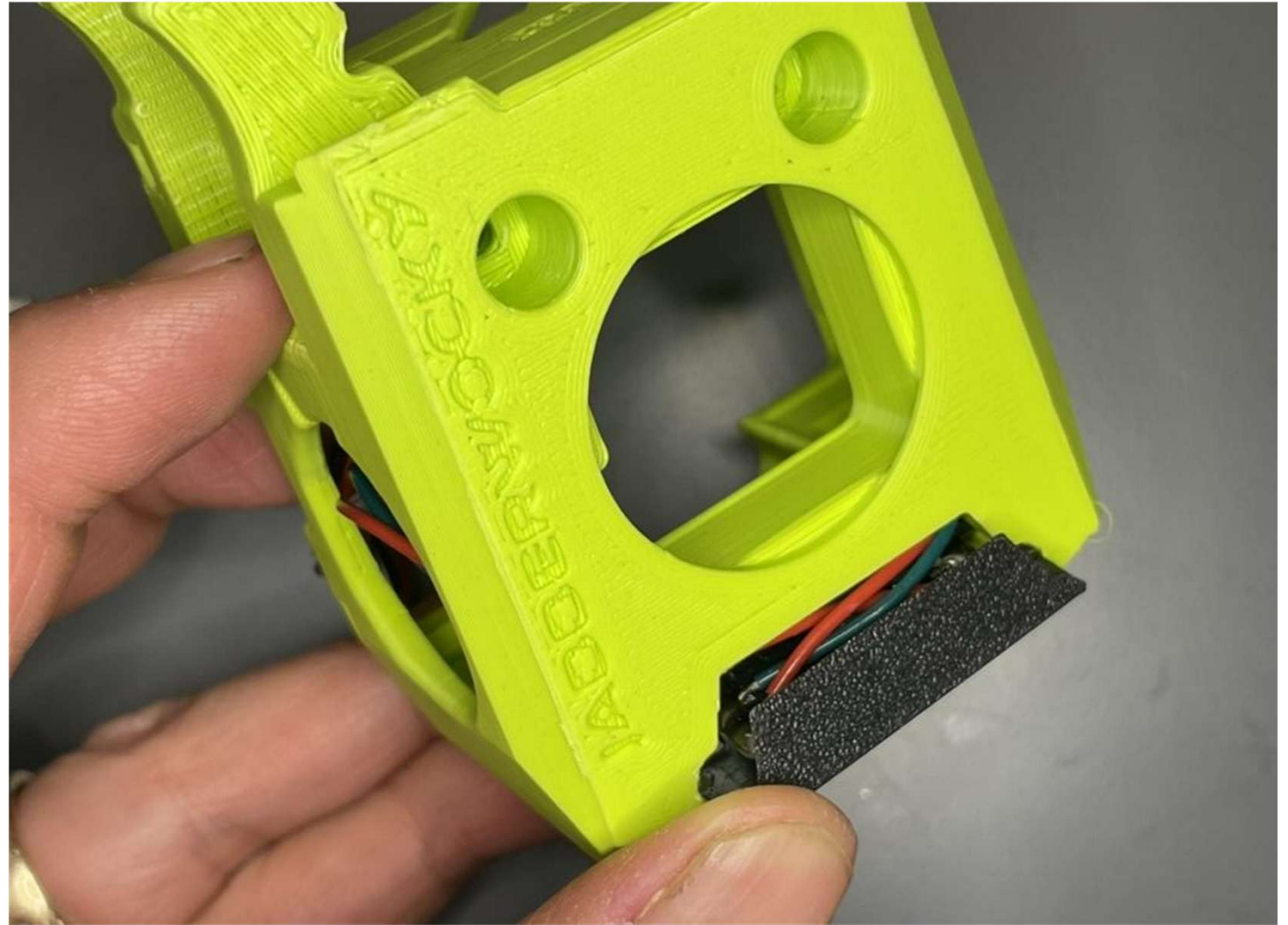
LOWER TOOLHEAD ASSEMBLY

Feed the Dual Neopixel Holder from the front of the shroud, feeding the wires over as pictured.

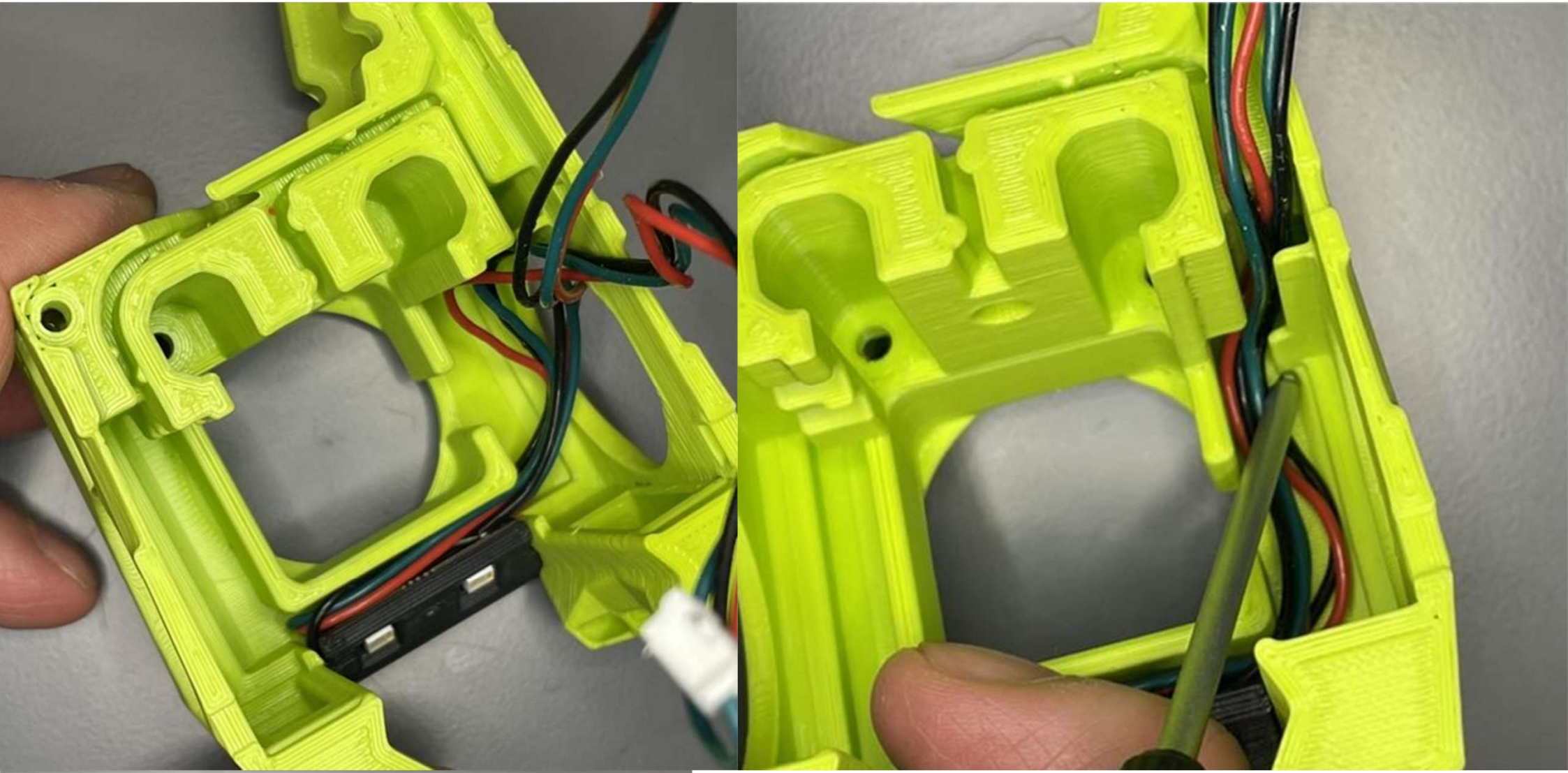


LOWER TOOLHEAD ASSEMBLY

Push the Dual Neopixel Holder until it sits flush to the front of the Shroud.



LOWER TOOLHEAD ASSEMBLY



Carefully route the wires into the cable channels, as the fans will be installed in front of them, and space will be limited.

LOWER TOOLHEAD ASSEMBLY

Next, install the LDO 2510 axial hotend fan. This is a push-fit component (be careful with the fan grills as they break easily with installation or servicing) and should be oriented as pictured aligning with the designated cutout.

Carefully route the wires through the cable channel, as the part cooling fan will later enclose them.



Hardware used in this step:
(1) LDO 2510 axial hotend fan

LOWER TOOLHEAD ASSEMBLY

Add the Fan Grill to the front of the fan. It is a push fit and is delicate, so don't force it.



LOWER TOOLHEAD ASSEMBLY

Proceed with installing one of the LDO 3010 DC blower fans (each of the fans are labelled 1 and 2. Use Parts Fan 2 for this step). Wrap the wire around as pictured.



Hardware used in this step:
(1) LDO 3010 DC blower fans

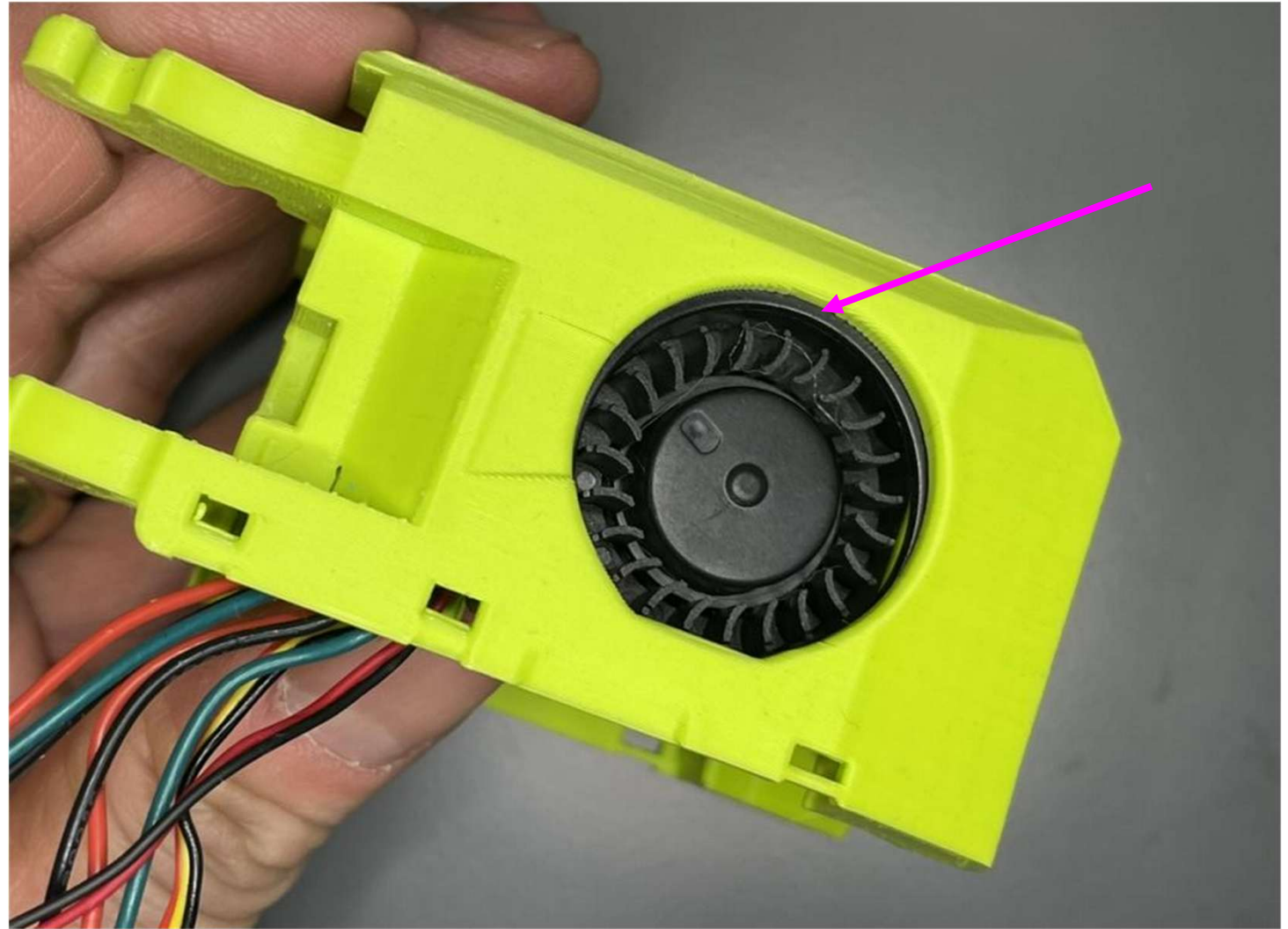
LOWER TOOLHEAD ASSEMBLY

These slide into the fan channel with the blower outlets facing downward. All the wires should end up bundled as pictured. Do not force the fan in case wires are not sitting in the channel correctly.



LOWER TOOLHEAD ASSEMBLY

Verify that the fan is aligned at the front most edge.



LOWER TOOLHEAD ASSEMBLY

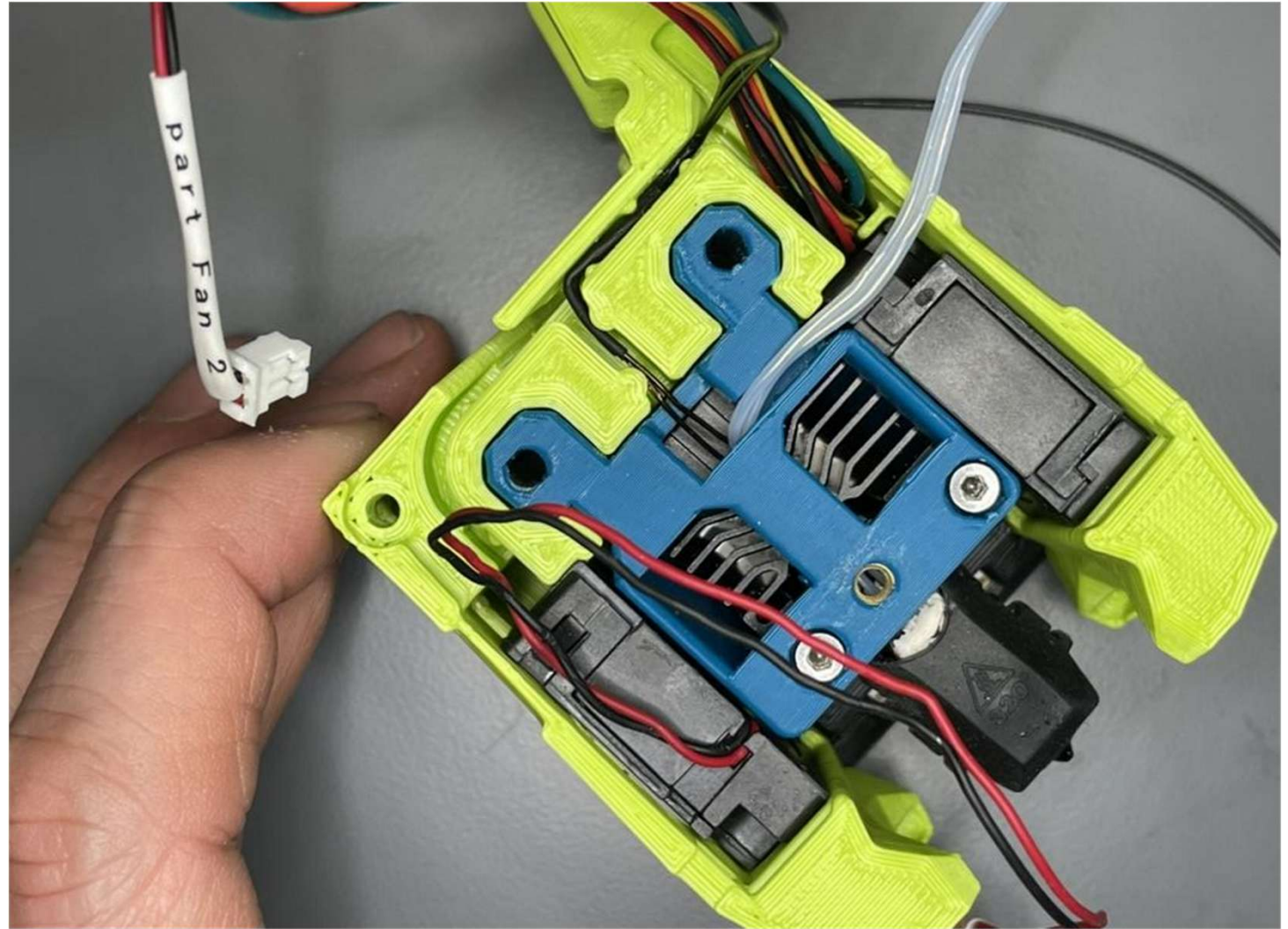
Install the second LDO 3010 DC blower fans with the blower outlet facing down and the wire positioned outwards, ready to put into the wire channel as pictured.



Hardware used in this step:
(1) LDO 3010 DC blower fans

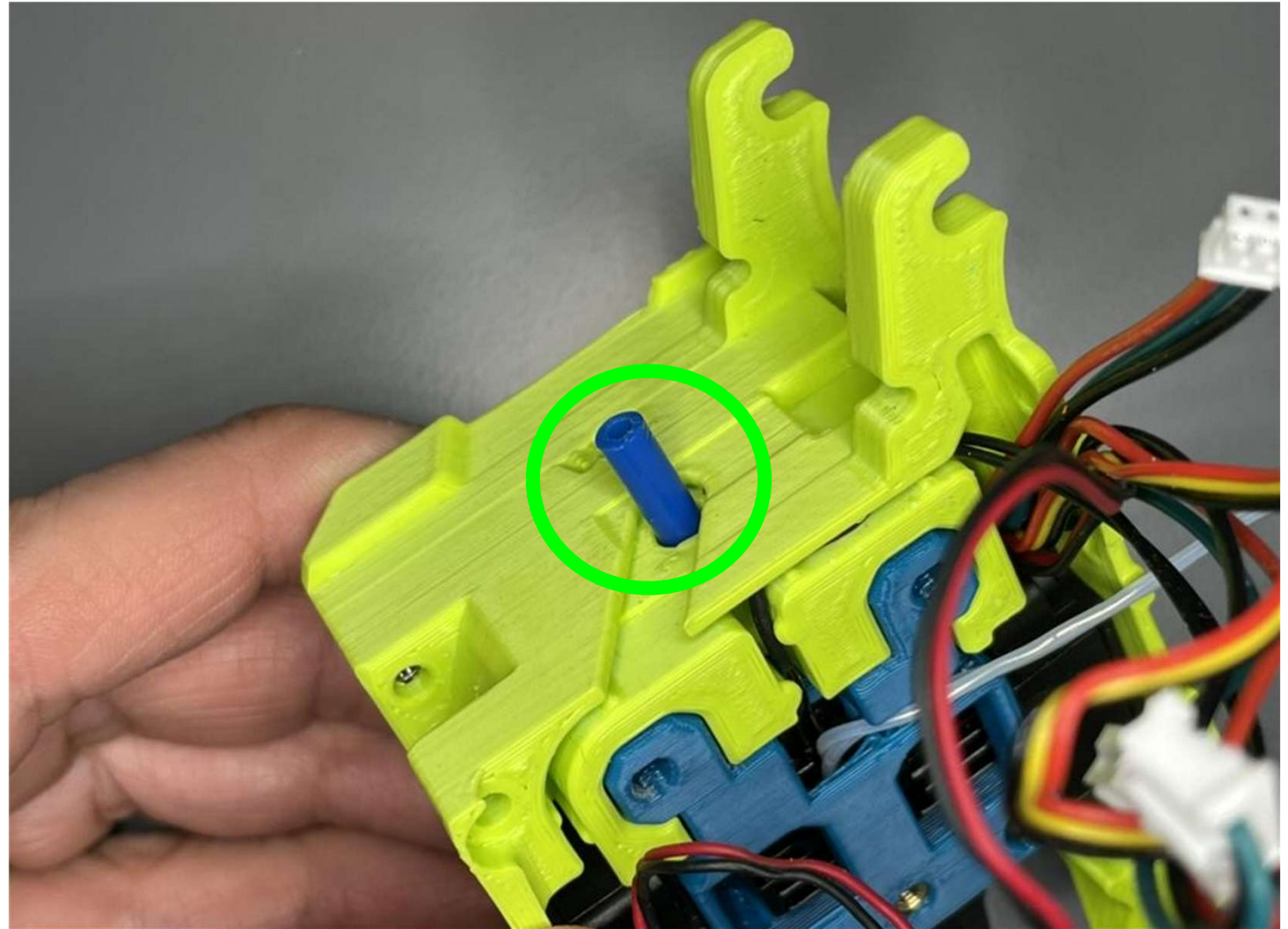
LOWER TOOLHEAD ASSEMBLY

Carefully push the thermistor wire into the channel. Do not zip tie down until the board has been installed and plugs have been put in.



LOWER TOOLHEAD ASSEMBLY

Next, insert the pre-cut 15mm Bowden tube into the top of the Shroud, ensuring it is fully seated. If necessary, use a hex bit to press it down evenly for a snug and secure fit.

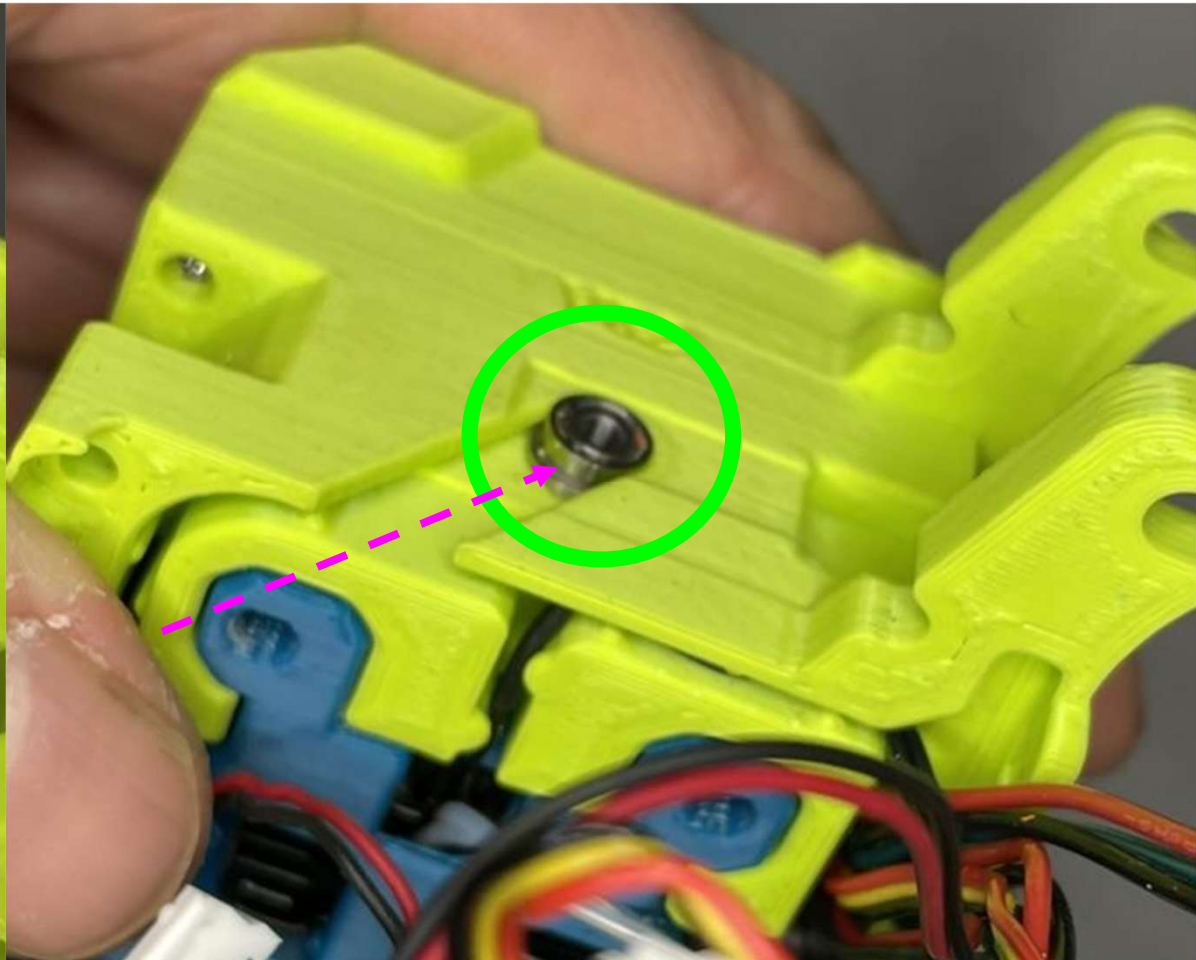


Hardware used in this step:
(1) pre-cut 15mm Bowden tube

LOWER TOOLHEAD ASSEMBLY



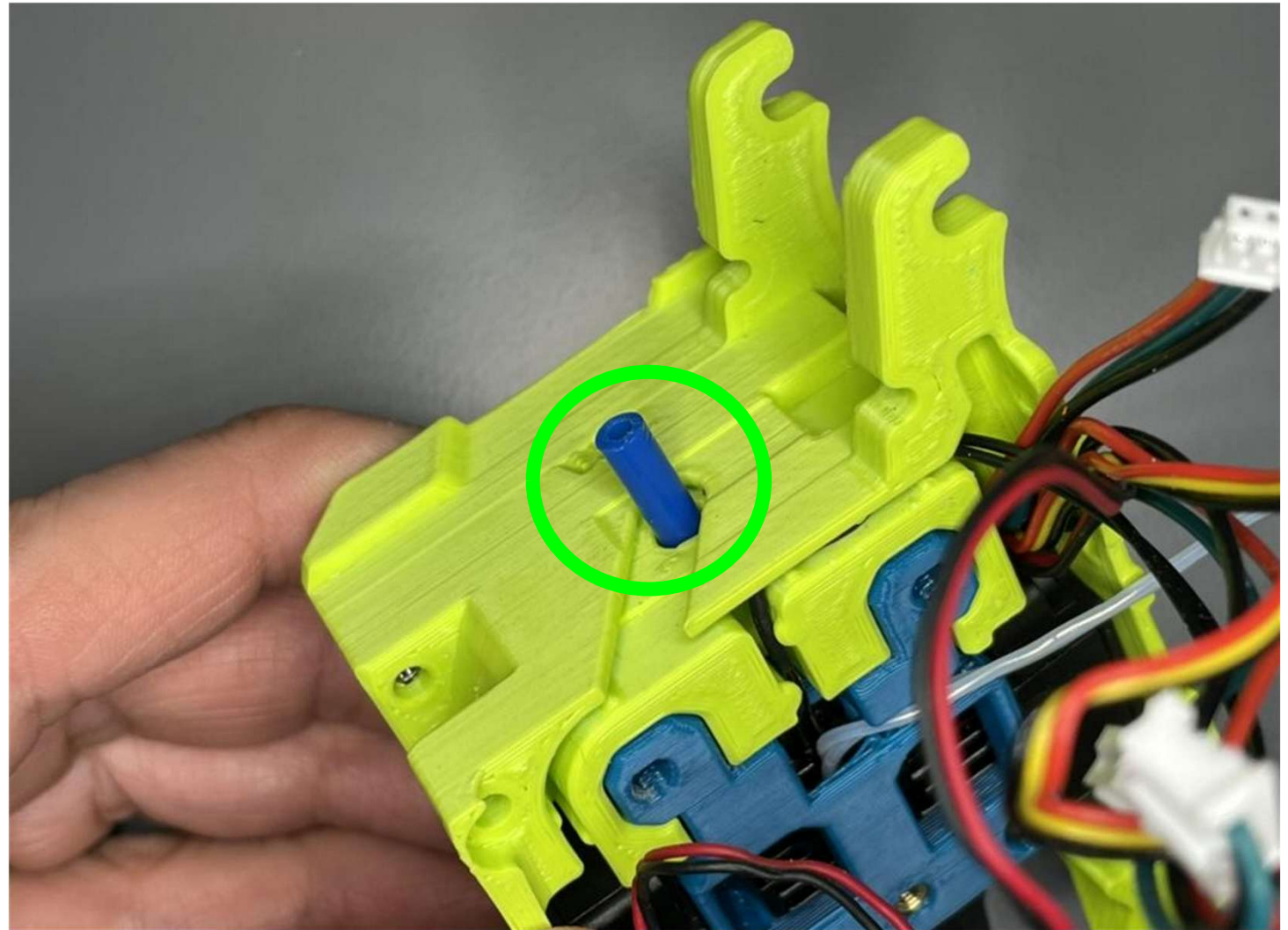
Hardware used in this step:
(1) F682-ZZ Bearing



Slide the F682-ZZ bearing over the 15mm Bowden tube. If it doesn't fit, ensure the Bowden tube is fully inserted or trim it.

LOWER TOOLHEAD ASSEMBLY

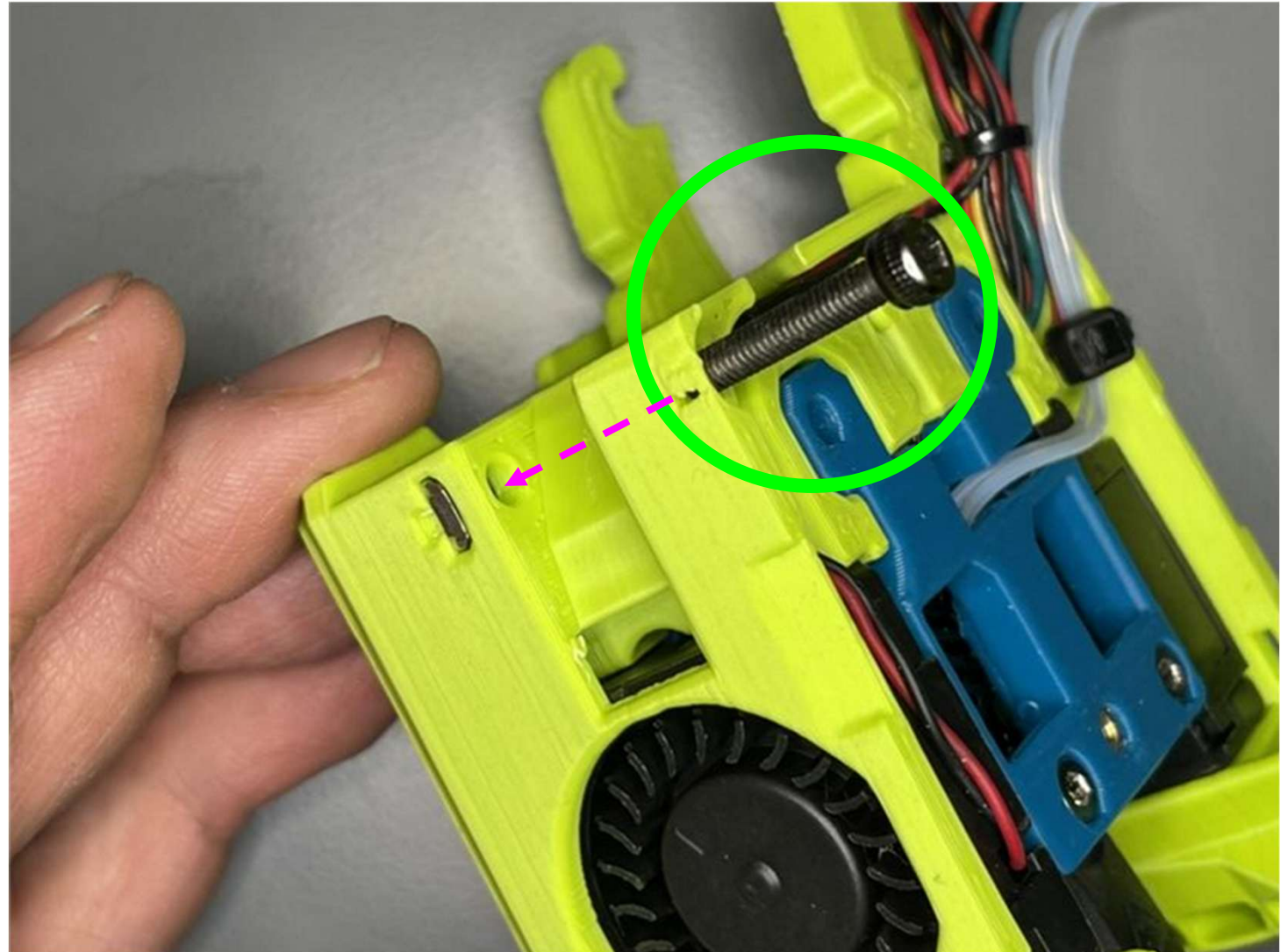
Next, insert the pre-cut 15mm Bowden tube into the top of the Shroud, ensuring it is fully seated. If necessary, use a hex bit to press it down evenly for a snug and secure fit.



Hardware used in this step:
(1) pre-cut 15mm Bowden tube

LOWER TOOLHEAD ASSEMBLY

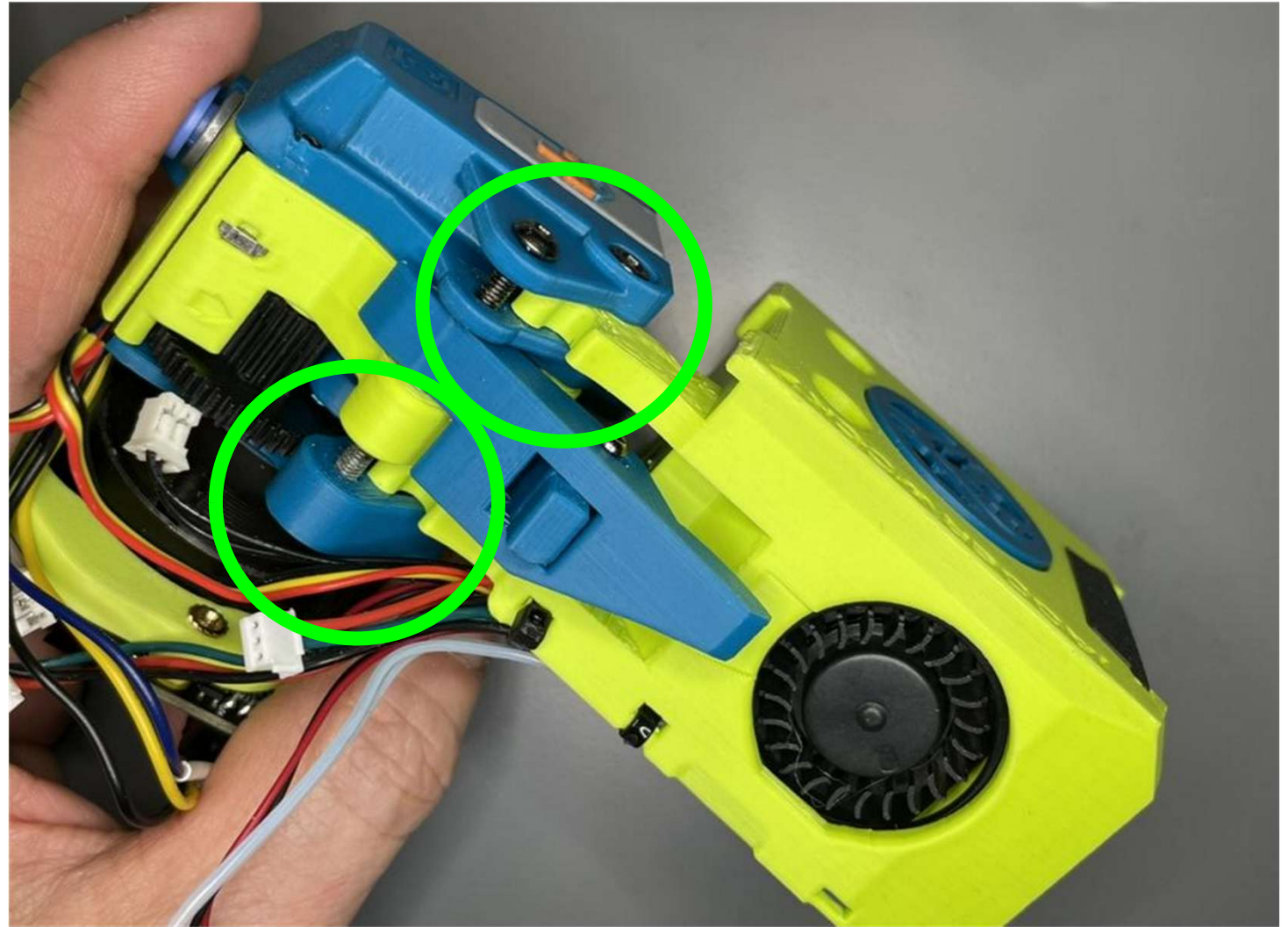
Install one M3x25 SHCS, which is used to latch the extruder to the lower toolhead body. This is located on the latch side of the shroud and into the T-nut located above the part fan 1 bay.



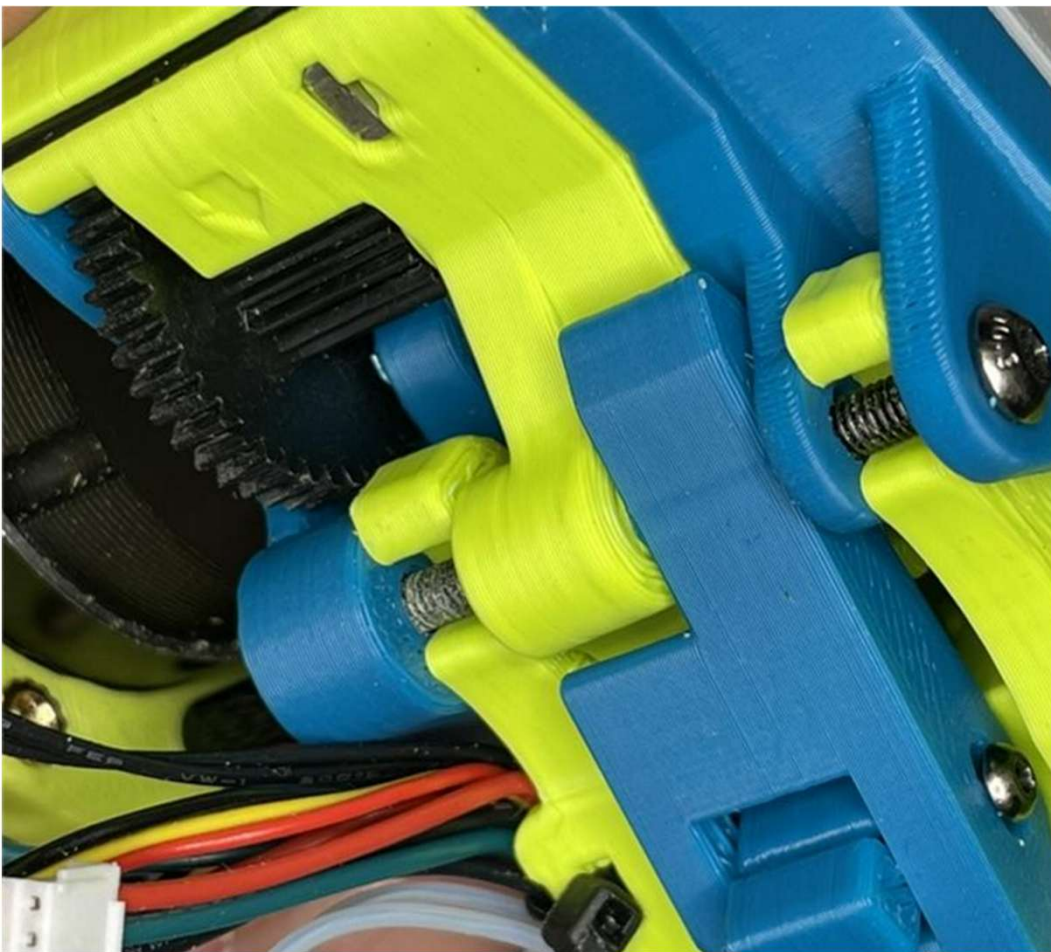
Hardware used in this step:
(1) M3x25 SHCS

LOWER TOOLHEAD ASSEMBLY

Next, align the top and bottom halves of the toolhead. Slide the lower body latches into position so they hook onto the long button head cap screw (BHCS) that secures the filament cutter. Once aligned, seat the top half of the toolhead horizontally and lock it in place using the lever lock.



LOWER TOOLHEAD ASSEMBLY

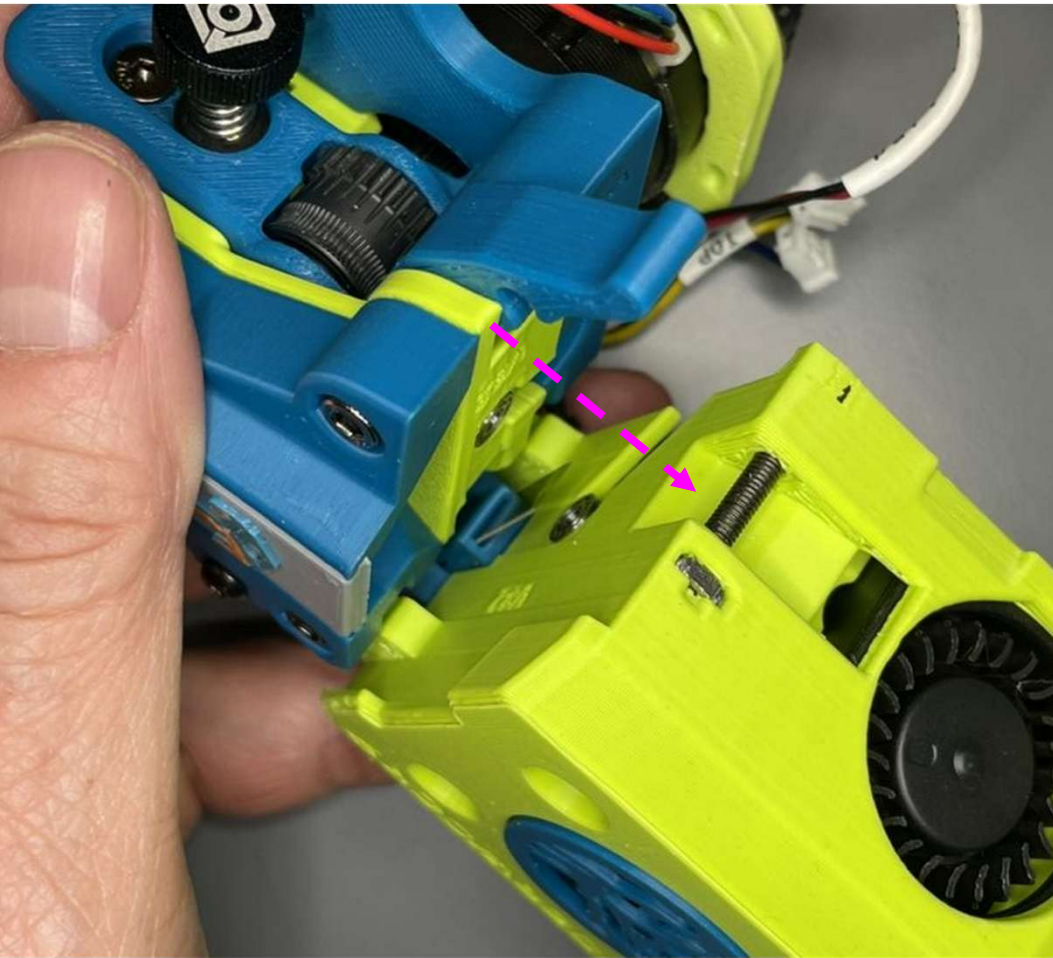


Check to see if hinge and cutter assembly is moving smoothly.



Loosen the screw that is pictured above to optimize hinge.

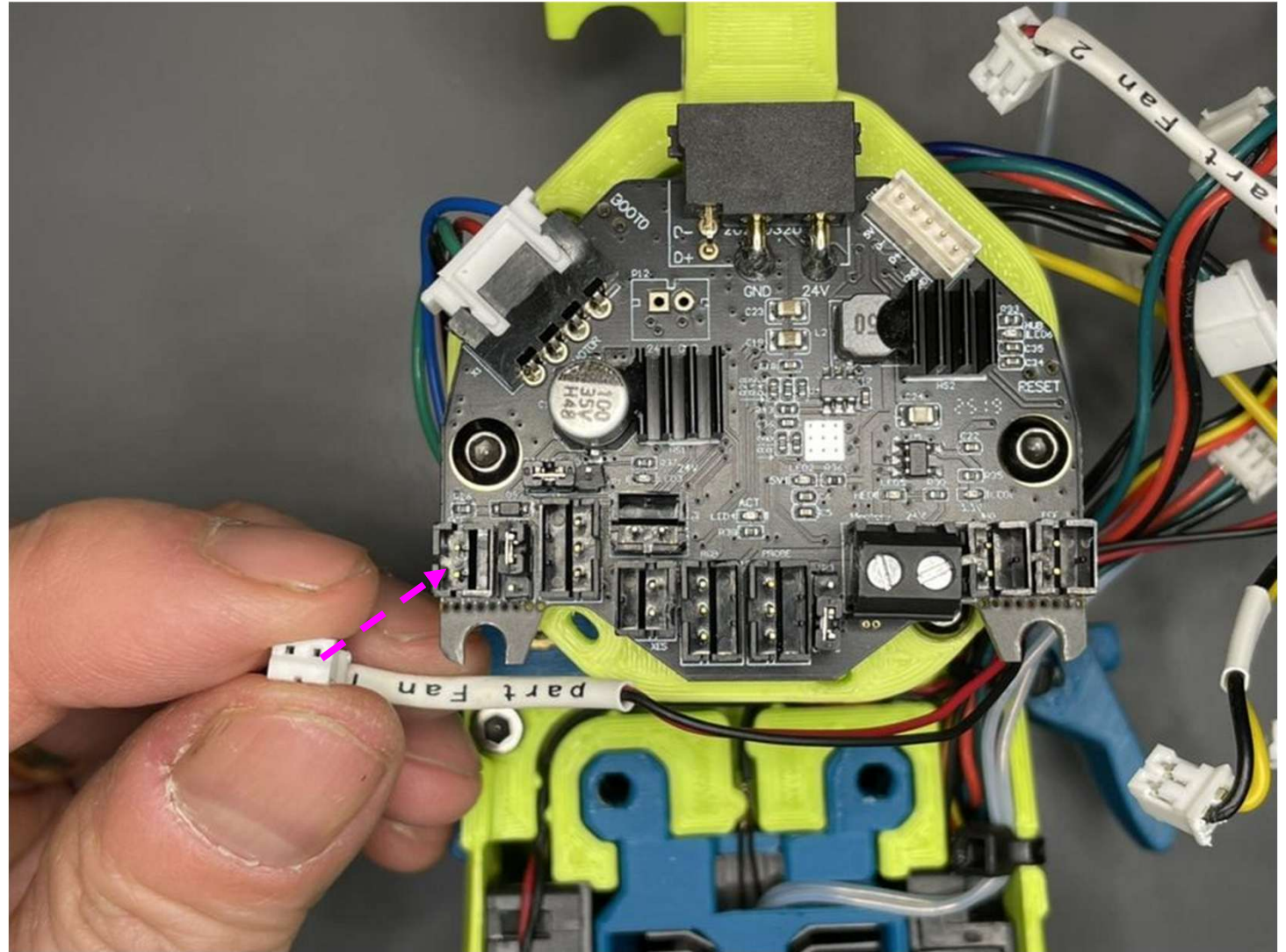
LOWER TOOLHEAD ASSEMBLY



Tilt extruder down and lock latch.

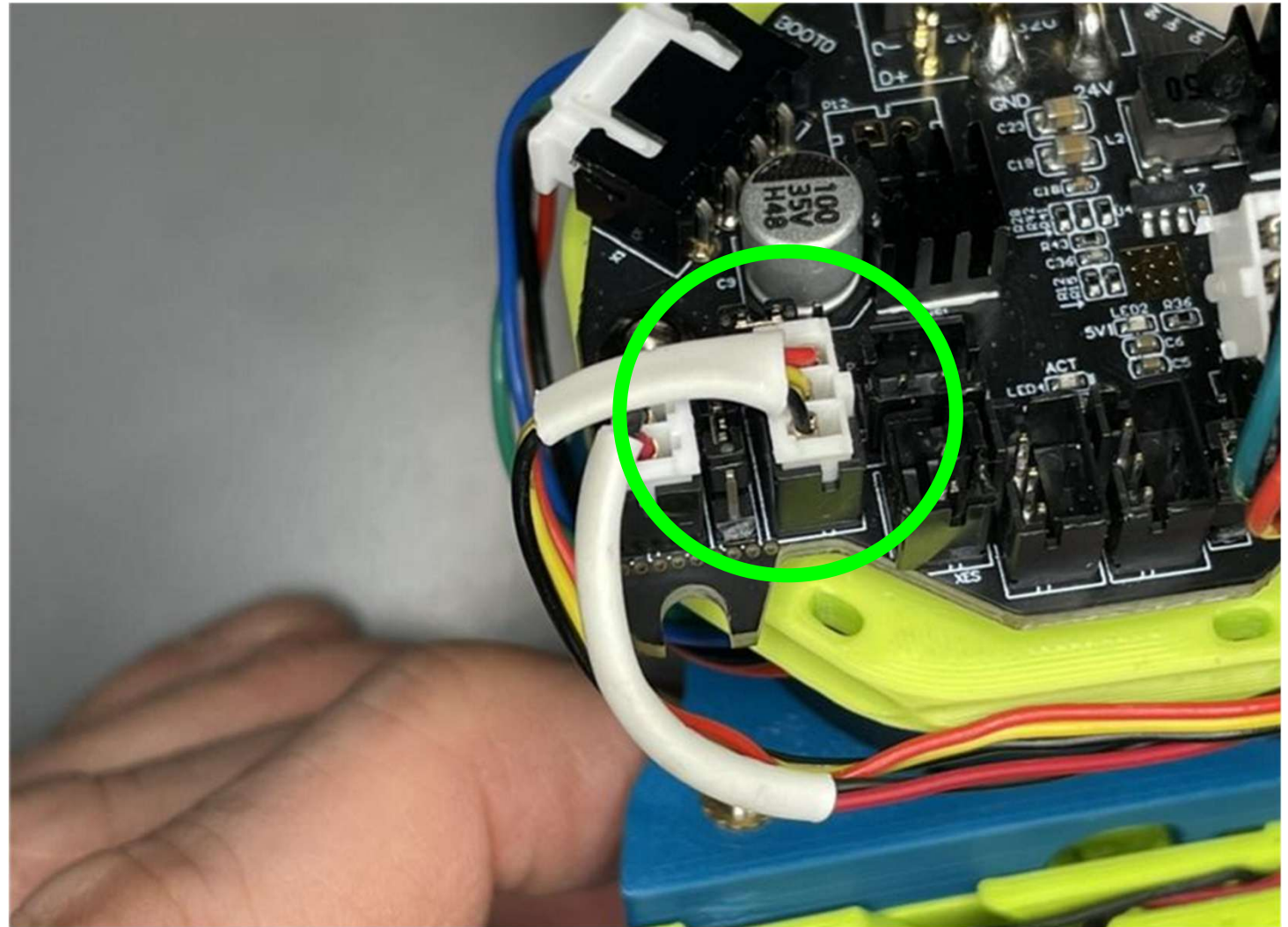
LOWER TOOLHEAD ASSEMBLY

Next steps are plugging in the various headers into the board. Find the header labelled Part Fan 1 and install as pictured.



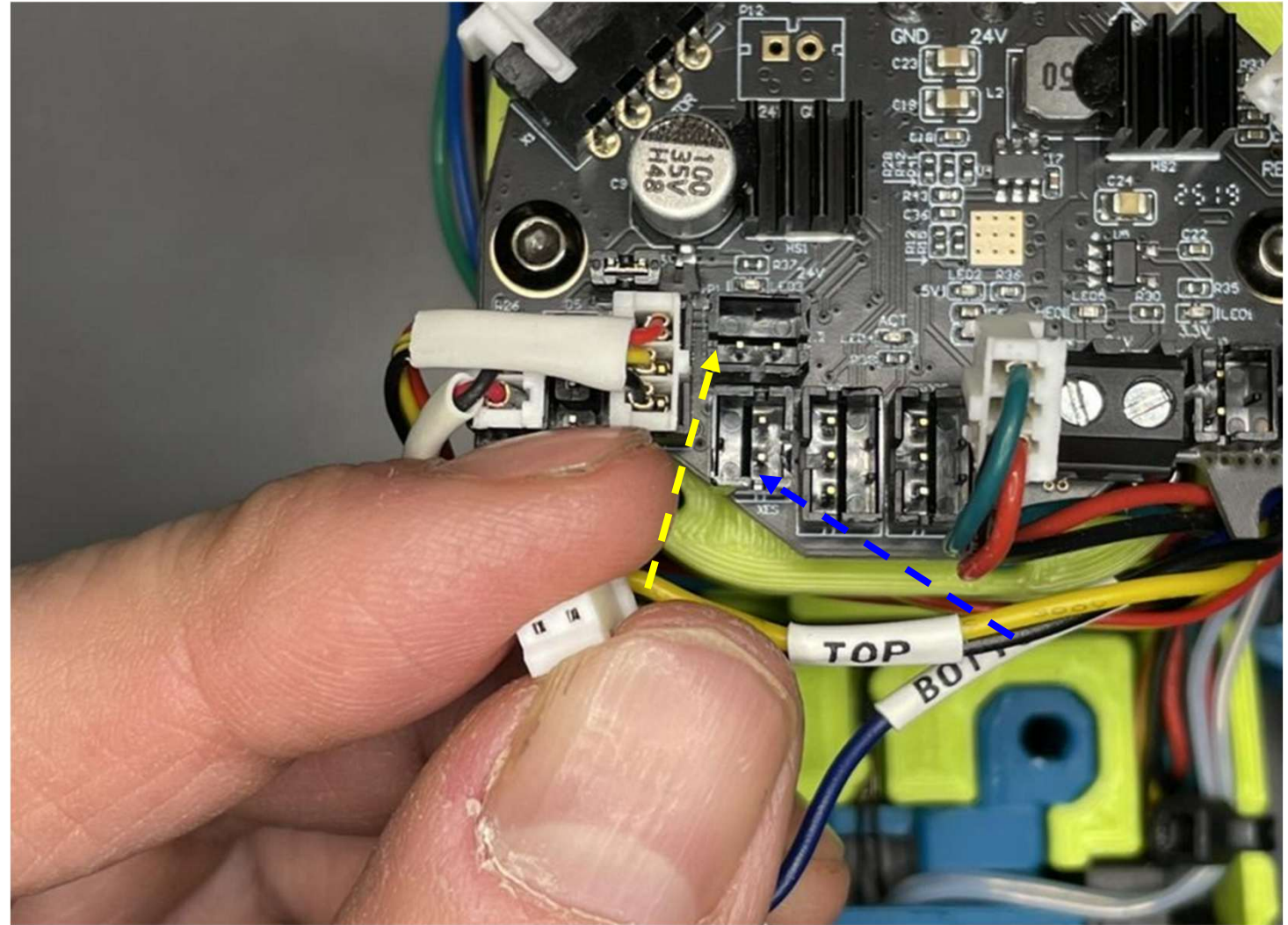
LOWER TOOLHEAD ASSEMBLY

Plug in the the header labelled HEC as pictured.



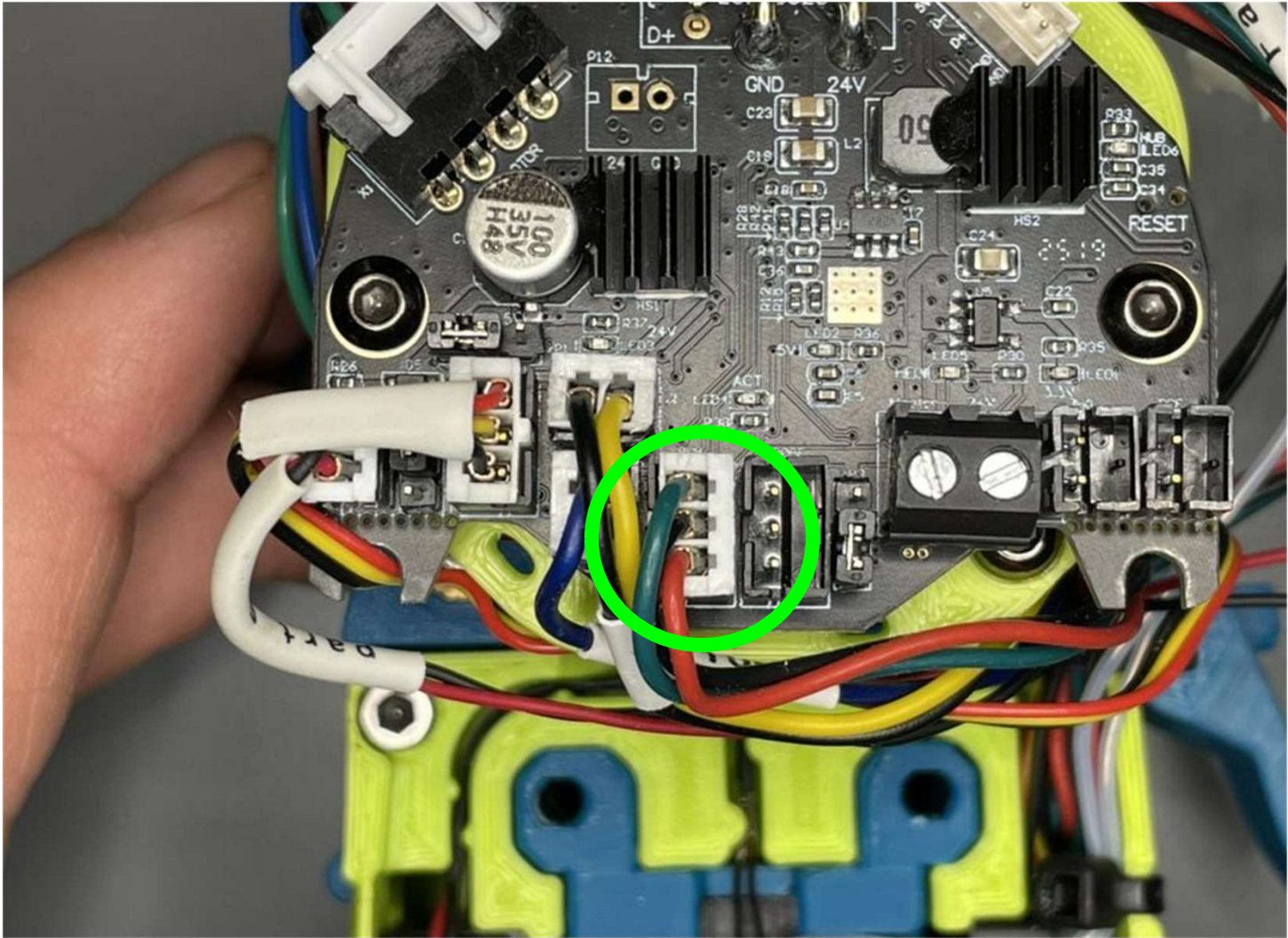
LOWER TOOLHEAD ASSEMBLY

Next wire the filament sensor headers labelled TOP and BOTTOM as pictured. Yellow wire in top port, and blue in the bottom port.



LOWER TOOLHEAD ASSEMBLY

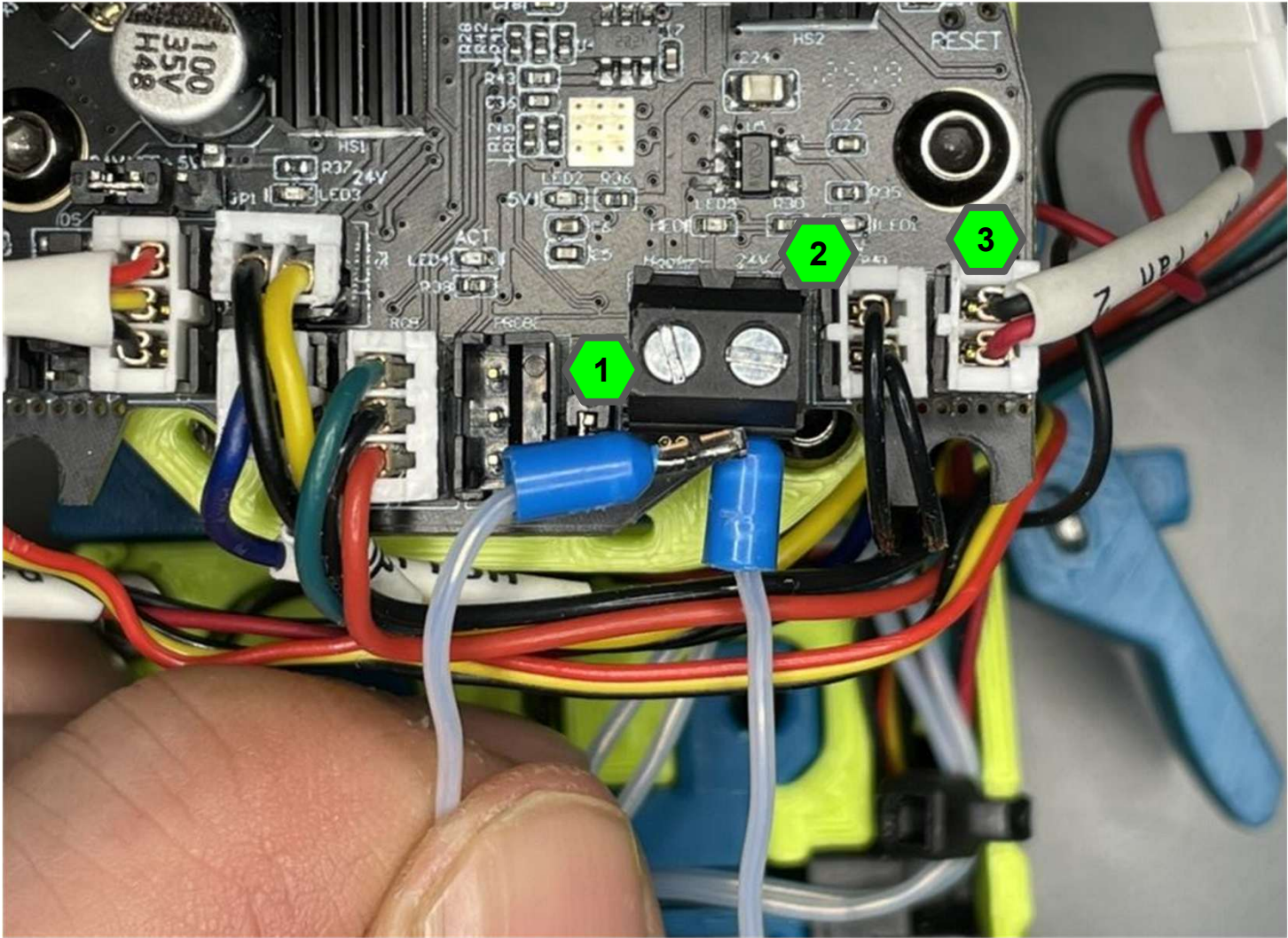
Next install the LED wires as pictured.



LOWER TOOLHEAD ASSEMBLY

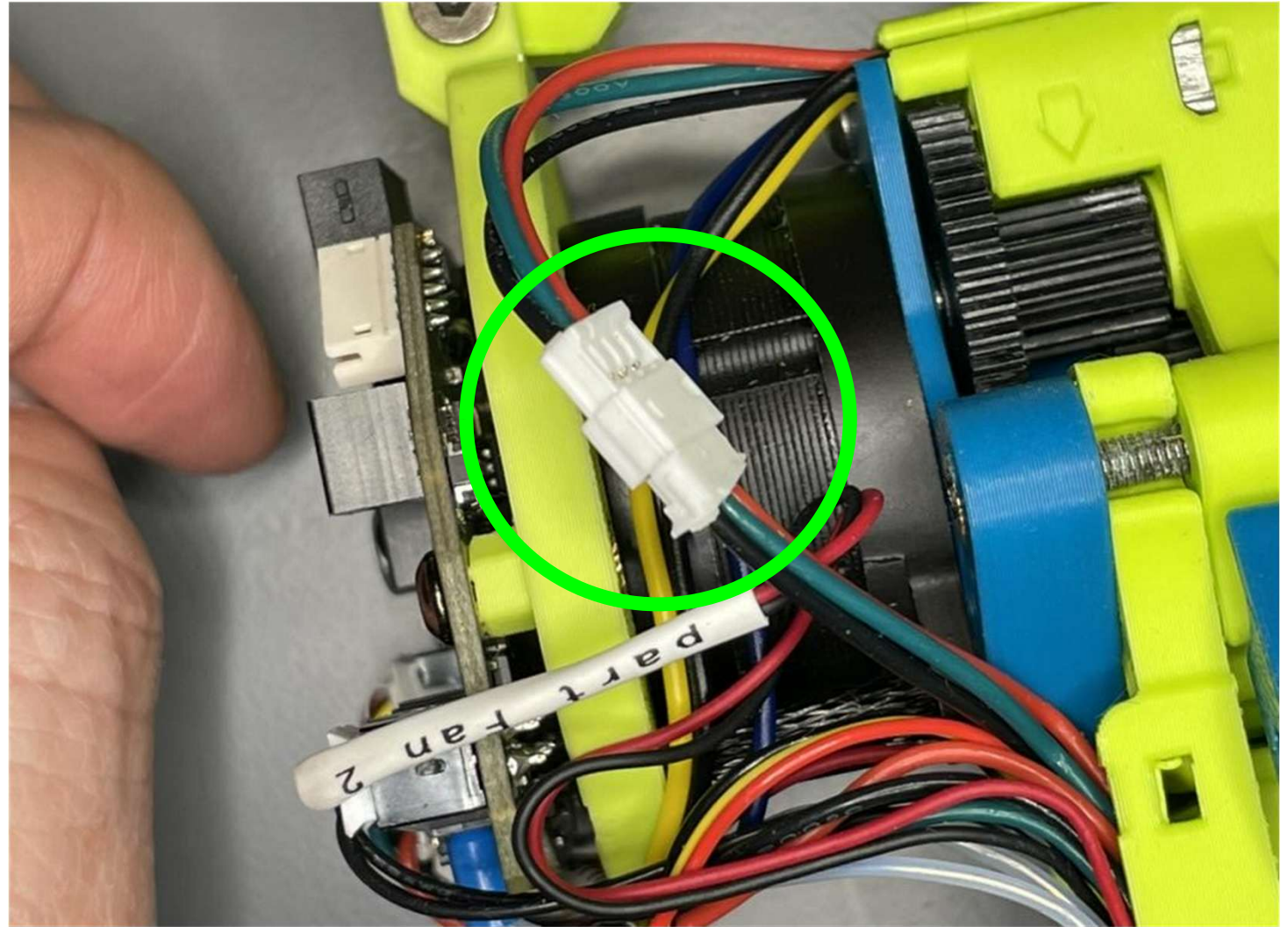
Install as pictured

- 1. Conch Heater Wire
- 2. Conch Thermistor
- 3. Parts Fan 2



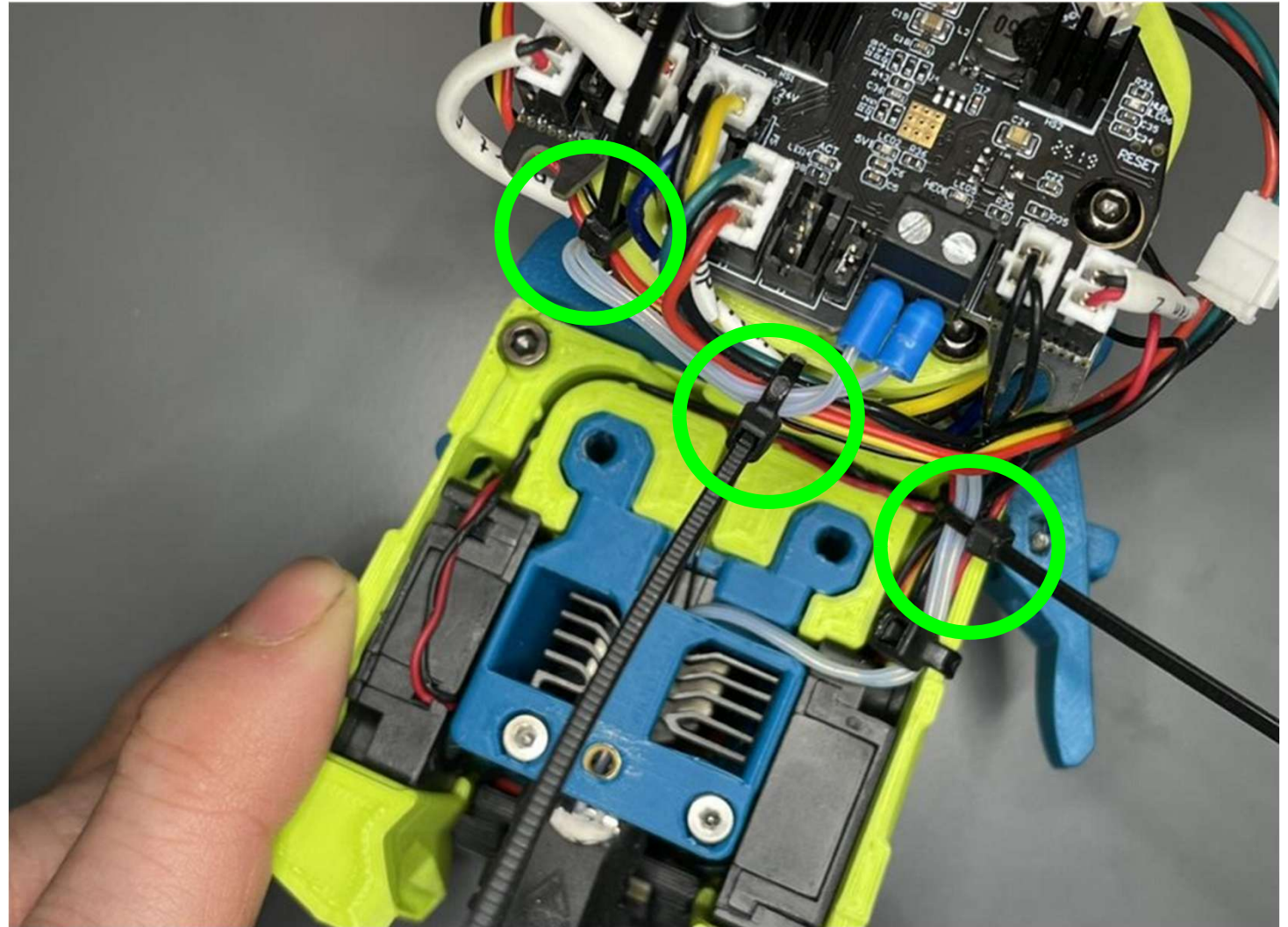
LOWER TOOLHEAD ASSEMBLY

Find the two interconnects for the Status Neopixel LED and plug them together.



LOWER TOOLHEAD ASSEMBLY

Ensure all the wires are in position and bundle up the wires neatly against the NH36 Mount and the shroud while using the Zip Ties to secure wires as pictured.



Hardware used in this step:
(3) Zip ties

CONGRATULATIONS

This completes the Jabberwocky Toolhead assembly,

Before installing the toolhead, please visit this short 5 minute video to verify everything is assembled correctly.

<https://www.youtube.com/watch?v=retalsg5uz0>

