

# Juno



**Thank you for your  
Purchase!**

# What is Juno?

- Juno is the successor to Jupiter with increased FPS, improved features, and open source nature.
- This blaster contains the new OOD Photons, custom made Rival wheels that fit standard shell profiles.

## Details

- Files can be found in two ways. The major file version can be found zipped together here. The latest release and any beta files can be found on GitHub [here](#).
- If you bought the hardware kit, it comes with two versions. The **standard hardware** contains all hardware for Juno and extra hardware for the Picatinny rails. Holdster Hardware replaces the M3 brass inserts with M5 and holdster magnets. Though not pictured, the installation process is the same. Only the Mag-Battery file needs to be changed.
- **The battery is not included** with the hardware kit. Most OOD batteries will fit in the large battery tray.

# Hardware List

- **m3 10mm x10** — Nozzle x2, Mag-Front Connected, Front-handle connector, 2-in donut plate
- **M3 30mm x4** — Front holes x4, the upper right is inserted before closing the front side,
- **m3 25mm x3**— 2x top handles, 1x bottom handles
- **10mm Flat head screws x6**— 6 in the front part (2 top center, 2 bottom center, and 2 for pusher install)
- **Brass 5mm inserts x7/ Brass 7mm x4 & Brass 5mm inserts x3** — 2 on each of three sides of the mag, one in the battery door
- **Square Nut x5** — Top center, pusher, handle x2
- **Hex Nut x4** — Top center x2, bottom center x2
- **21a Button switch**
- **10a cherry pin plunger**
- **N20 Motor + n20 PCB + JST connector**
- **M3x20mm Tapered Thumbscrews**
- **Pusher Wheel (Printed)**
- **18 AWG wire**
- **Shrink tubing**
- **XT 60 connector**
- **1 in Trigger Spring**
- **Motor screw x4** —
- **Motors x2** —
- **Rival Photons x2** —

# Print list + alternatives

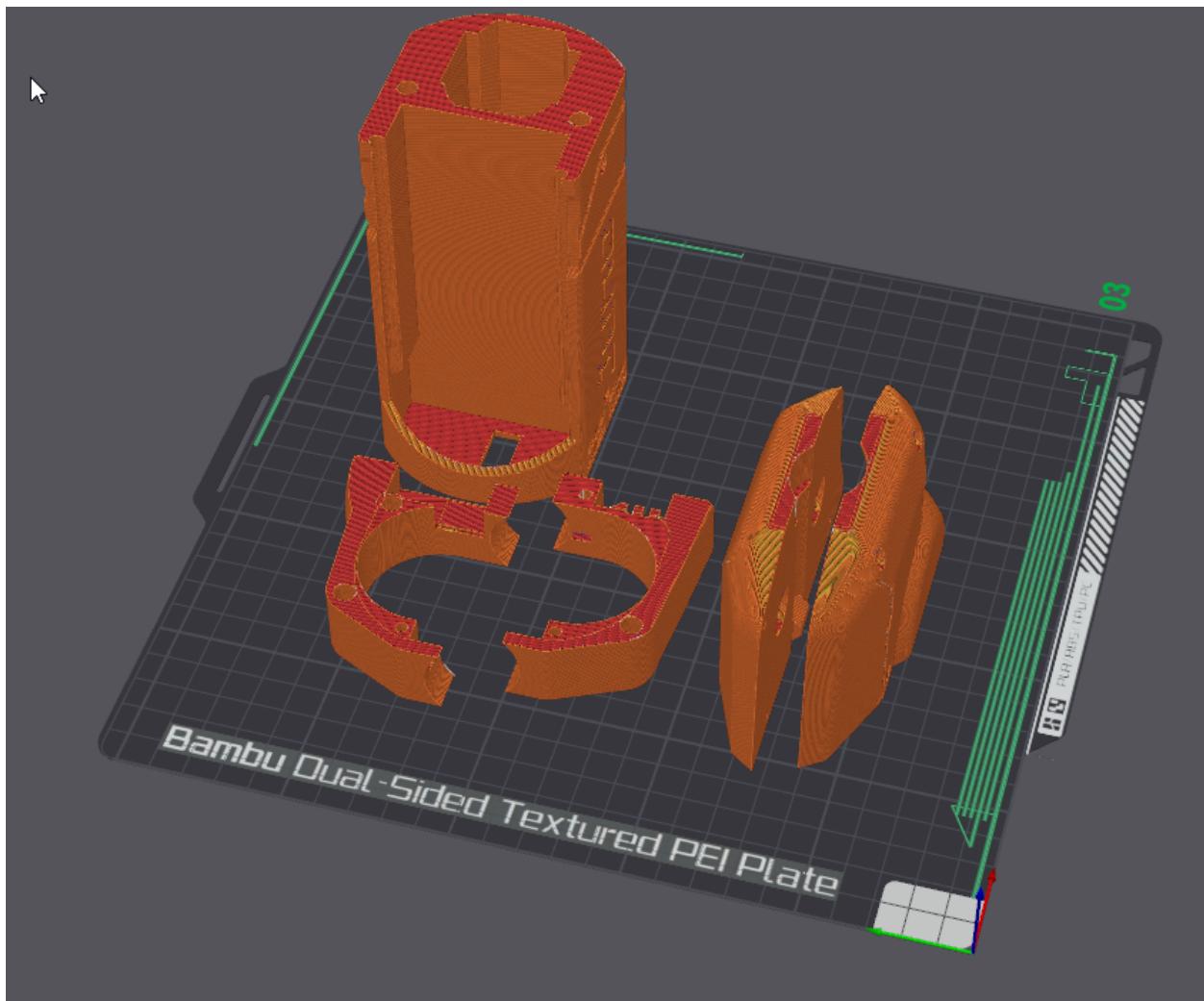
When a choice is present, it will be separated with a /.

- Front Blaster
  - **Cage**
  - **Right Plate**
  - **Left Plate**
  - **Bottom Center**
  - **Top Center**
  - **Pusher Wheel** - Printer tolerance can affect fit  
(several tolerance variances are available)
  - **Pusher Casing**
- Handle
  - **Handle Outer/Juno's Fury Outer Handle** (also used if the user wants a sling point instead)
  - **Handle Inner**
  - **Trigger**
- Mag-Battery
  - **Mag-Battery / Mag-Battery m3 brass insert/ Mag-Battery Holdster brass insert**
  - **Back Plate**
  - **Battery Tray/ Battery Tray with Pict / Battery Tray with hexagon**
- Nozzle
  - **Nozzle**
  - **Hopup**
- Optional
  - **Side Picatinny Rails**

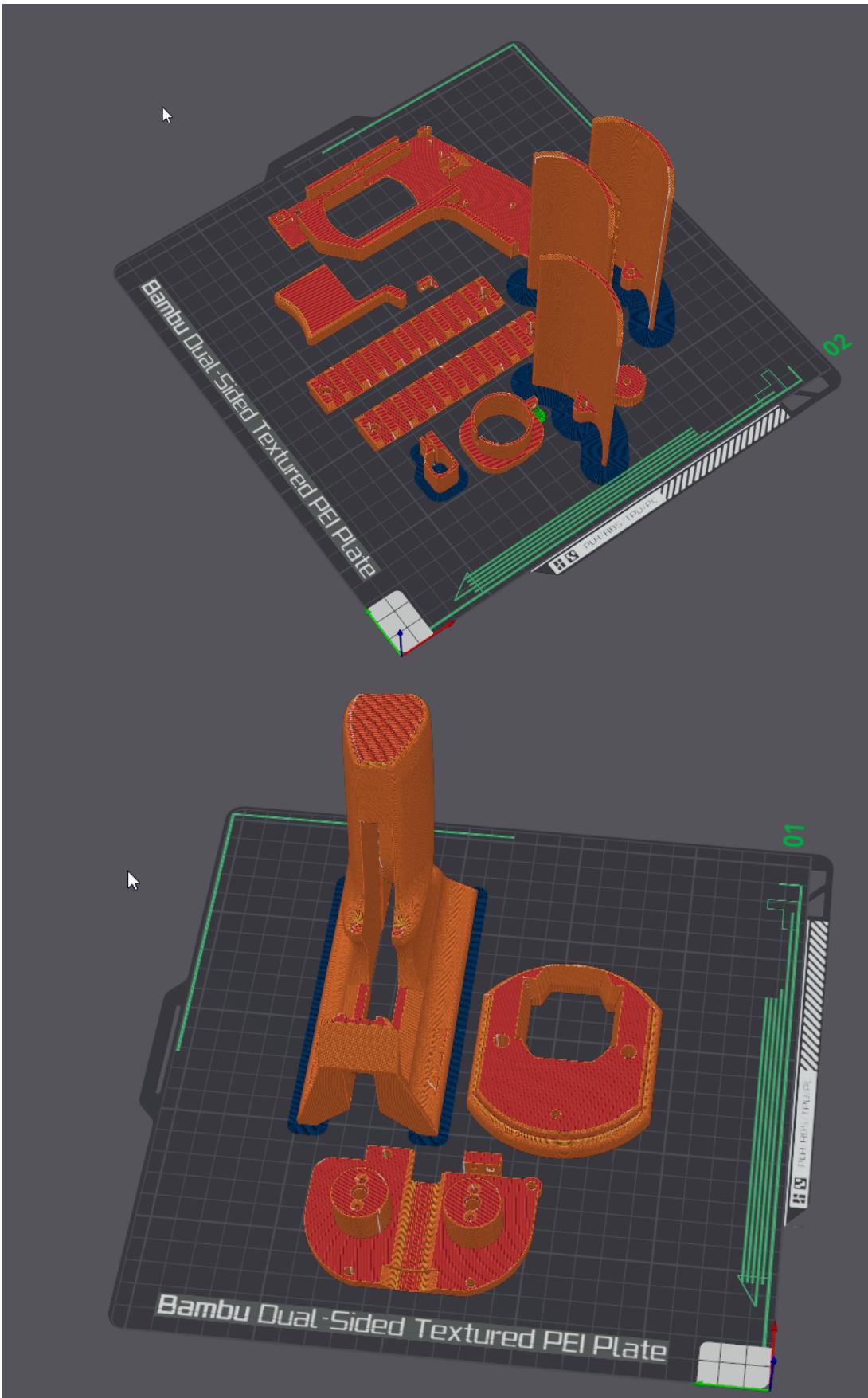
- Holdster Adapter

# Print Orientation

- Recommended Print Settings (All): at least three perimeters, 15% infill at .2mm layer height.
- Support: There are a few parts that have built-in supports, such as the **Cage**
- Needs support: Nozzle
- Brim:
  - The Handle Outer will likely need a brim
  - Battery Tray will likely need a brim
  - Pusher Casting may or may not need a brim

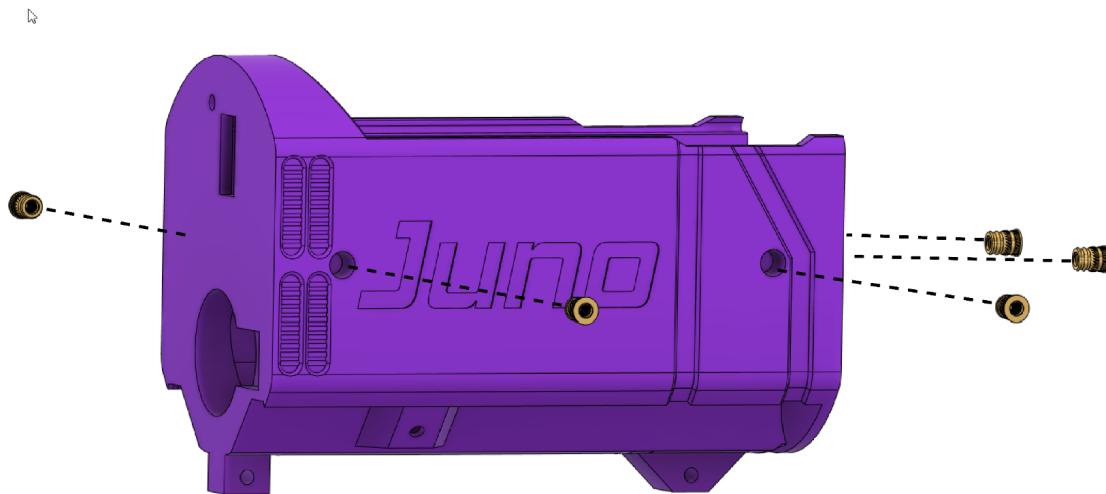


- These photos show print orientation and are not recommendations for grouping for printing.

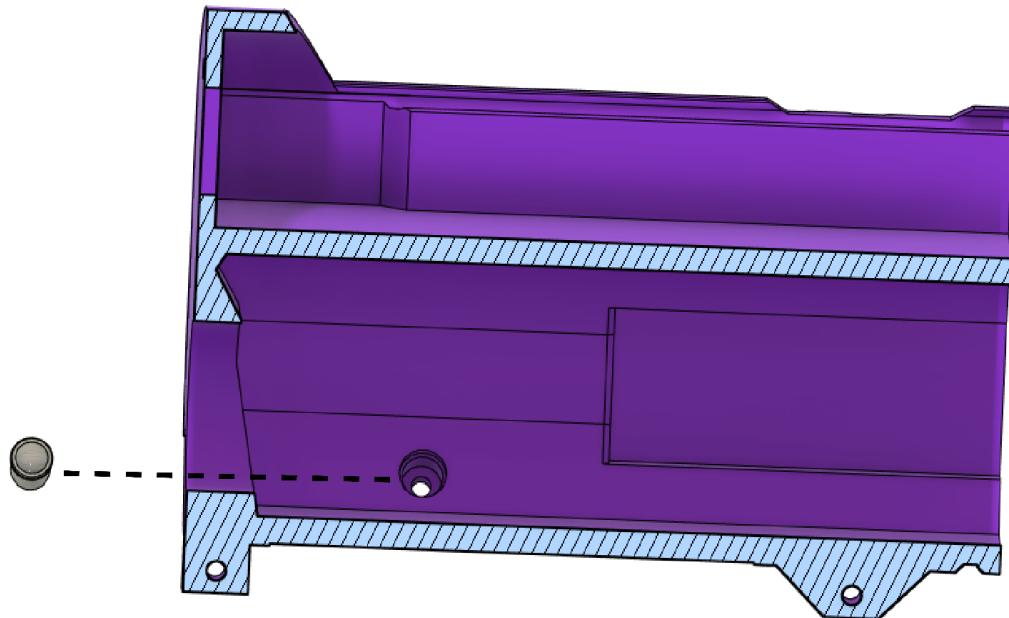


# Assembly

**Step 1: Install six brass inserts.**



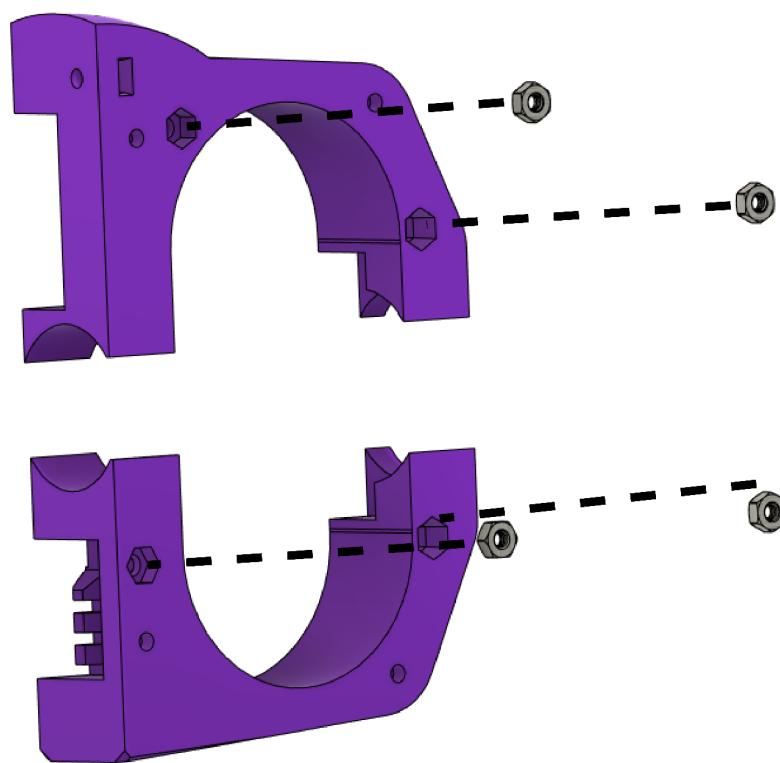
**Step 2: Install both Ball detents and place part to the side.**



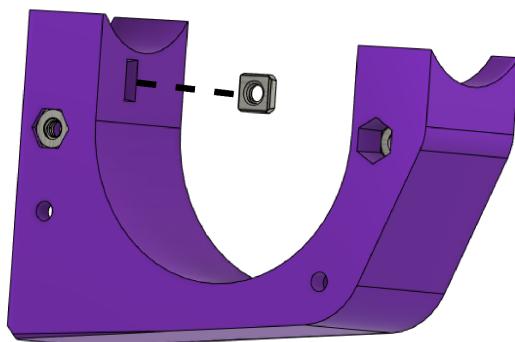
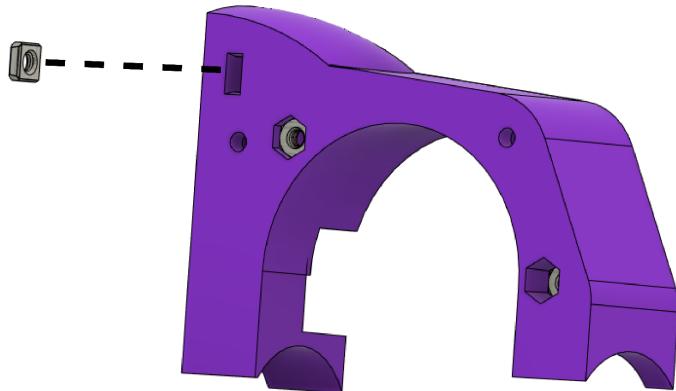
**Step 3: Install the last brass insert into the battery tray.**



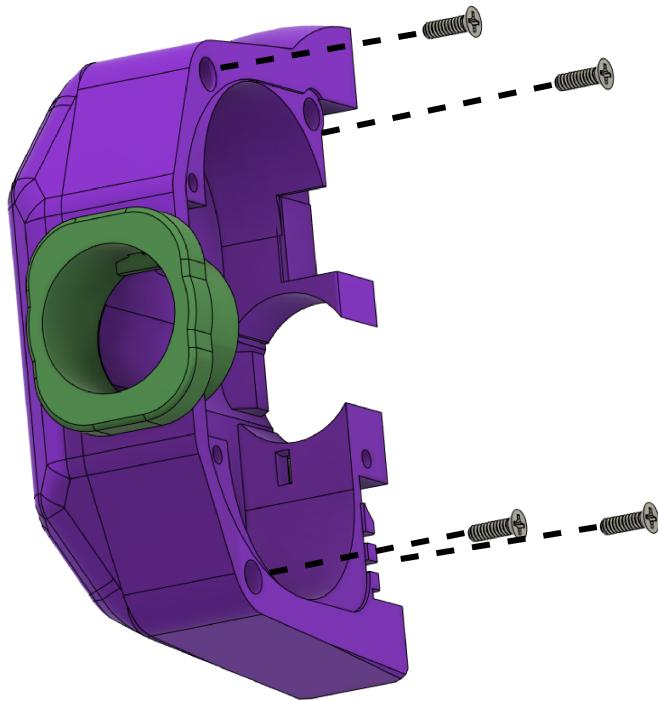
**Step 4: Install all 4 of the hex nuts into the top and bottom center, two in each.**



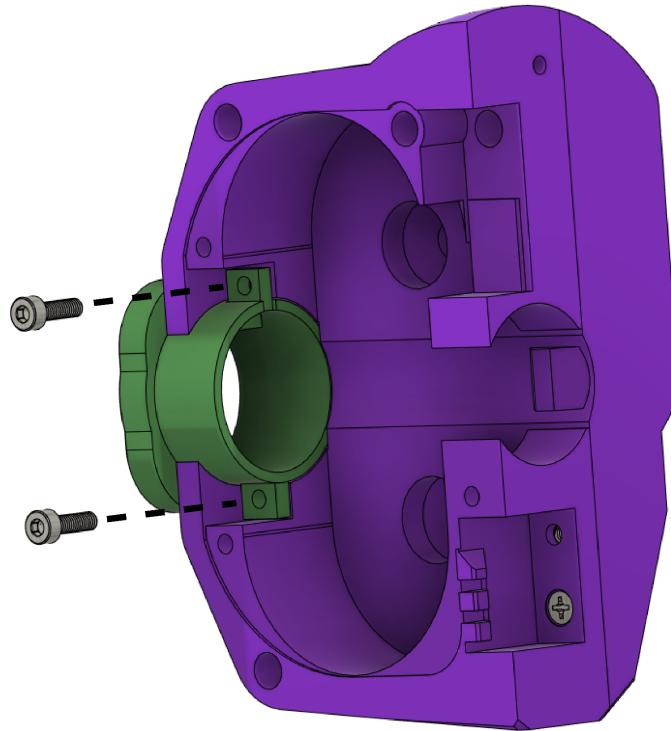
**Step 5: Install two square nuts, one each, into the top and bottom center.**



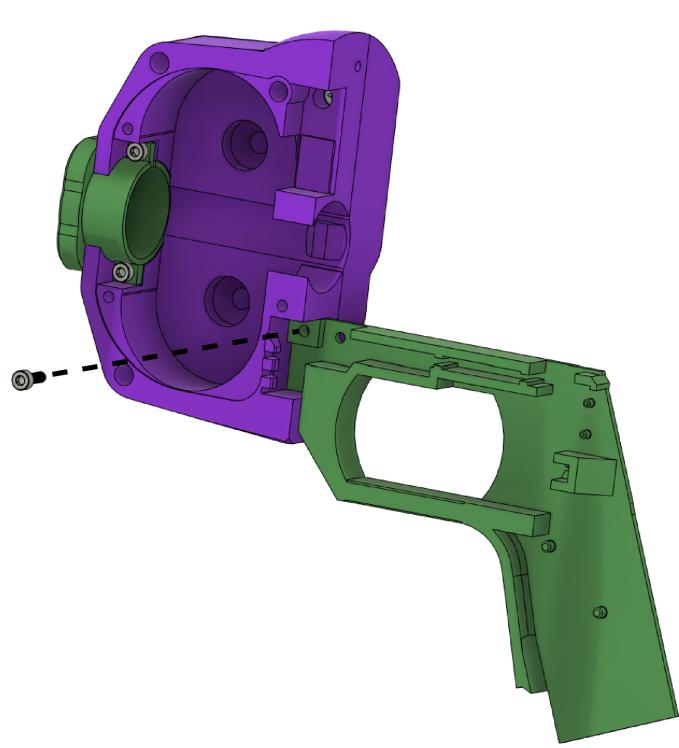
**Step 6: Assemble the bottom and top center with the nozzle and back plate. Install 4x10mm Flat head screws.**



**Step 7: Install 2 M3x10mm screws into the nozzle. One holds the nozzle while the other holds the hopup.**



**Step 8: Install the M3x10mm between the front assembled piece and the inner handle part.**



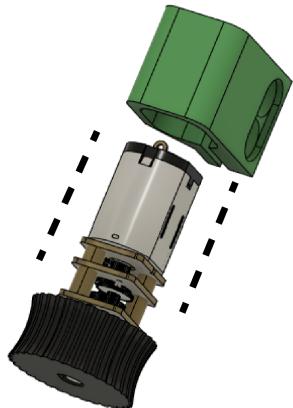
**Step 9: Install the M3x10mm screws between the front piece and Mag part.**



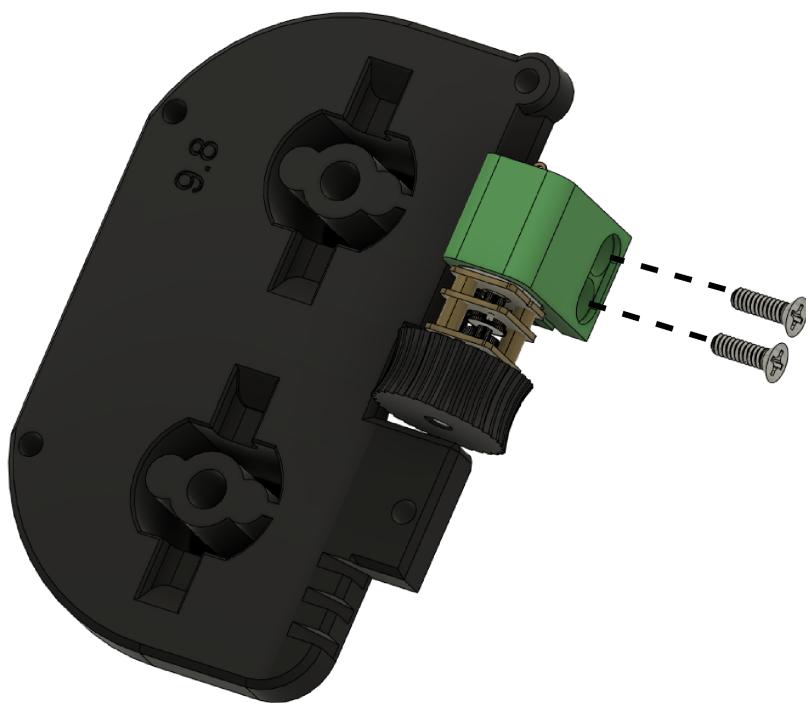
**Step 10: Install the Pusher wheel onto the n20 motor.**



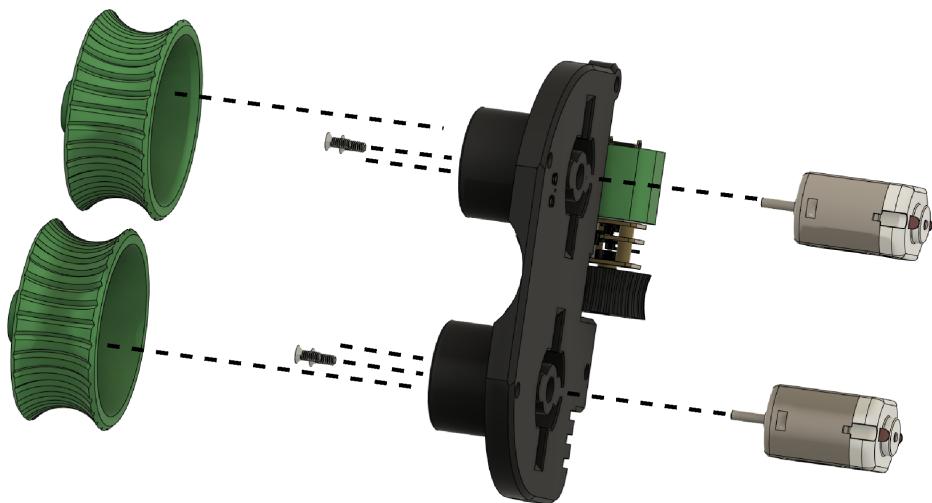
**Step 11: Either install the board onto n20 now or after placing it into the pusher casing.**



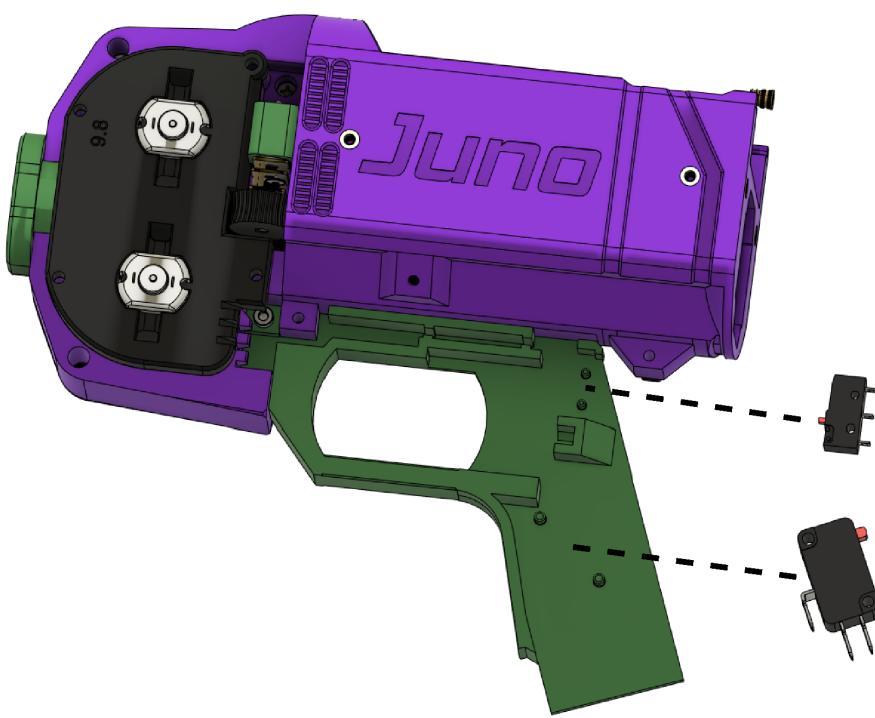
**Step 12: Install the 2 M3x10mm flat screws into the cage. These will also hold the n20 in place. Make sure to adjust the n20 before tightening.**



**Step 13: Before installing the motors, make sure to remove the custom supports. Place motors with red dots opposing each other (The top motor dot is to the right) and install the four motor screws followed by the Photon wheels.**



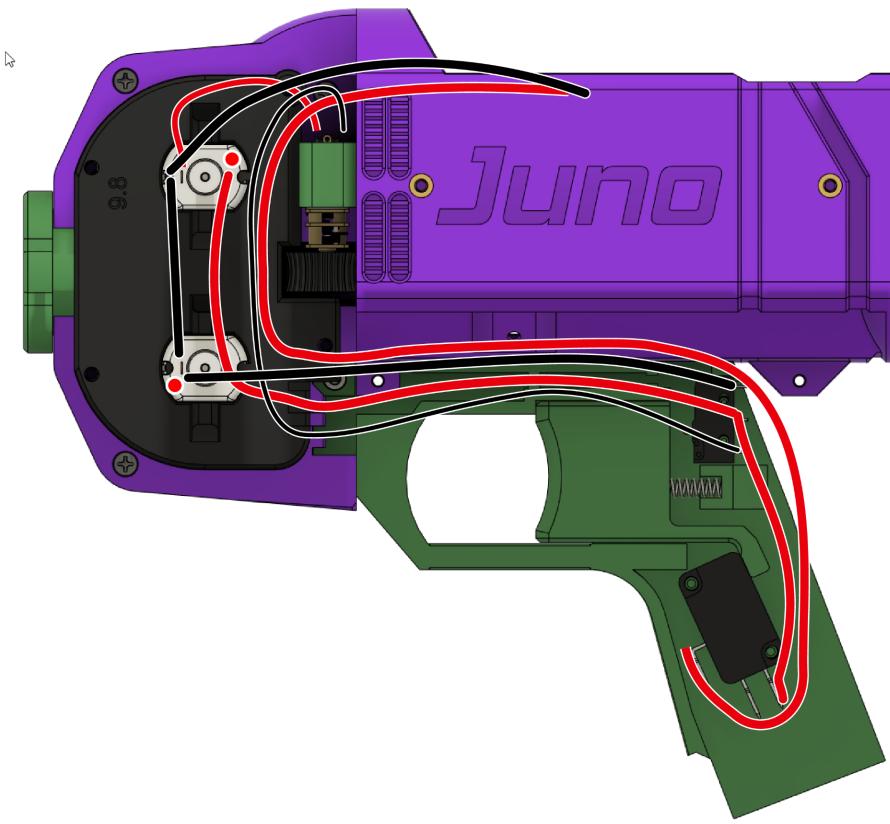
**Step 14: Install the two switches into the small prongs, facing as shown.**



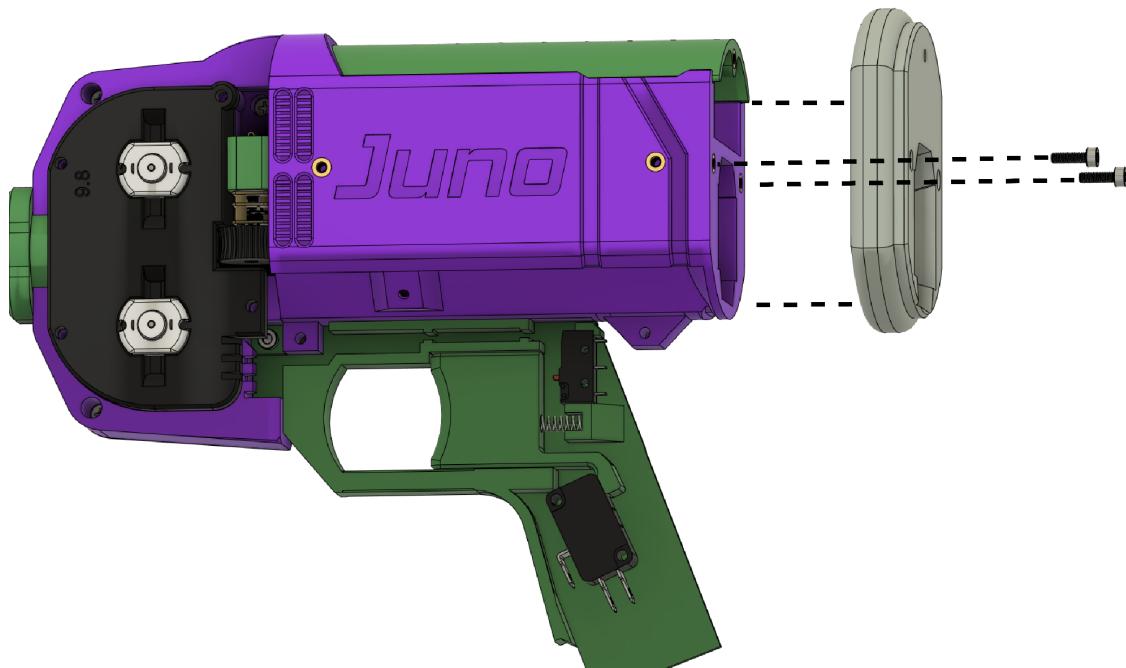
**Step 15: Install the spring into the trigger. Then, install the trigger into the handle by lightly pressing against the spring.**



**Step 16: This is a great time to complete the wiring if not already finished. (Wiring depends on the direction of motors)**



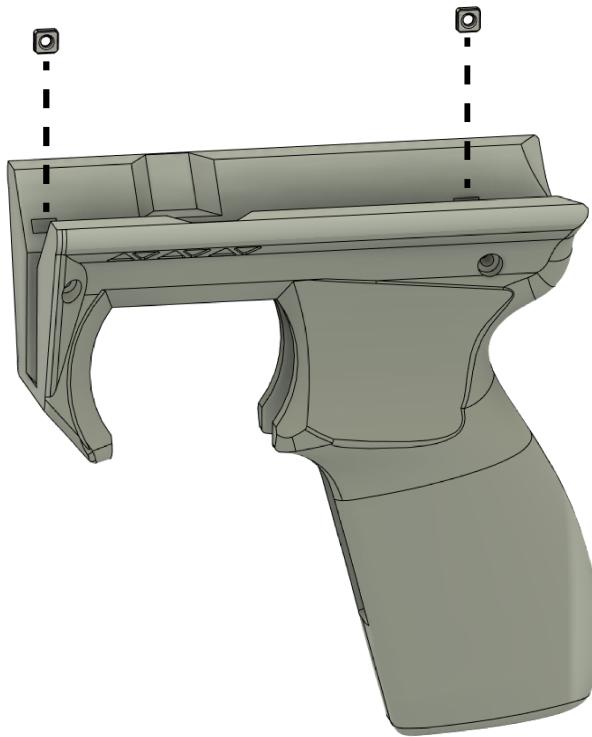
**Step 17: Insert the battery tray into the mag. Then add the back plate and fasten it with 2 M3x10mm screws.**



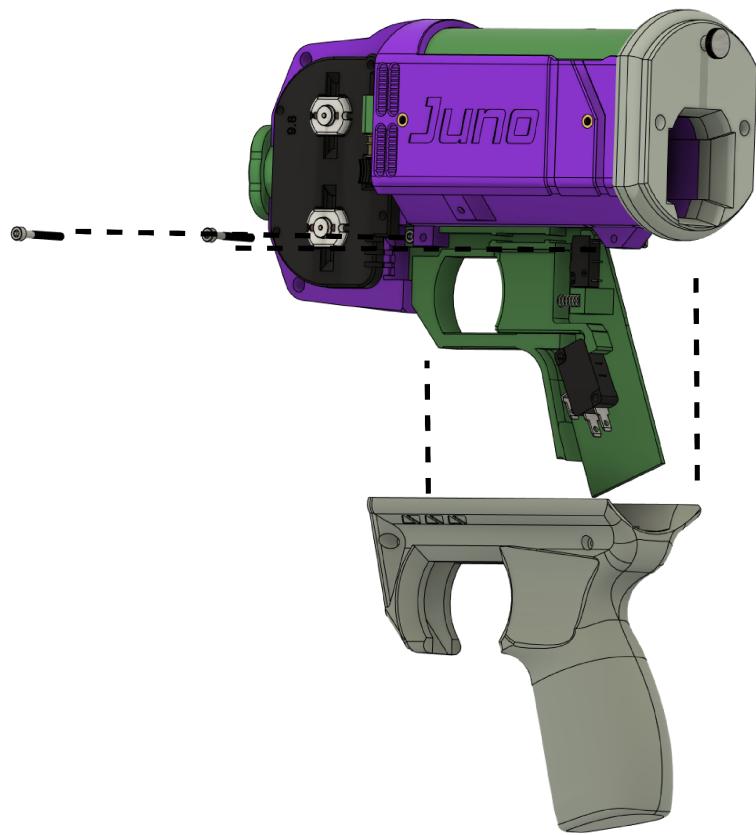
**Step 18: Install the Thumb screw.**



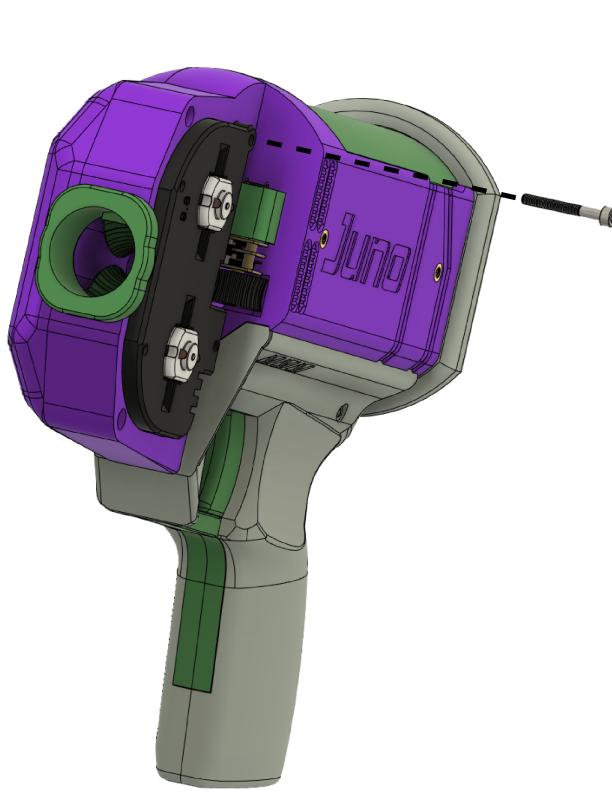
**Step 19: Install 2 square nuts into the handle.**



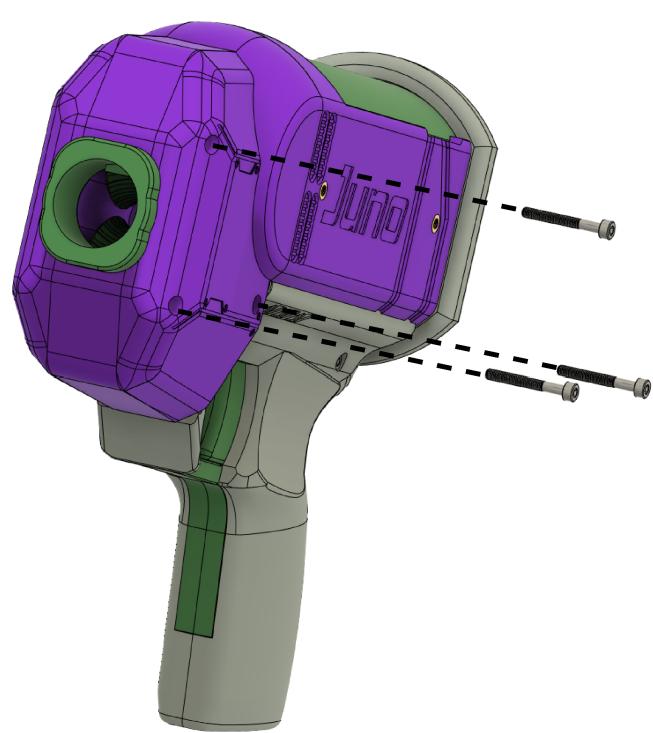
**Step 20: Slide the handle over the inner part and fasten it with 2 M3x25mm screws.**



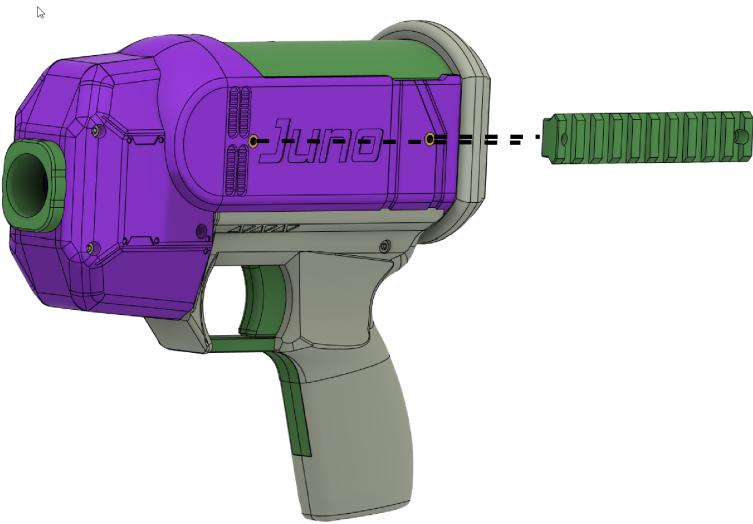
**Step 21: Insert the M3x30mm screw into the upper right corner.**



**Step 22: Add the front plate and insert 3 M3x30mm screws into it.**



**Step 23: Optionally, two Picatinny rails can be installed using 2 M3x10mm screws on each side.**



**Step 24: Add a battery and magazine to test if everything works! Great Job**

