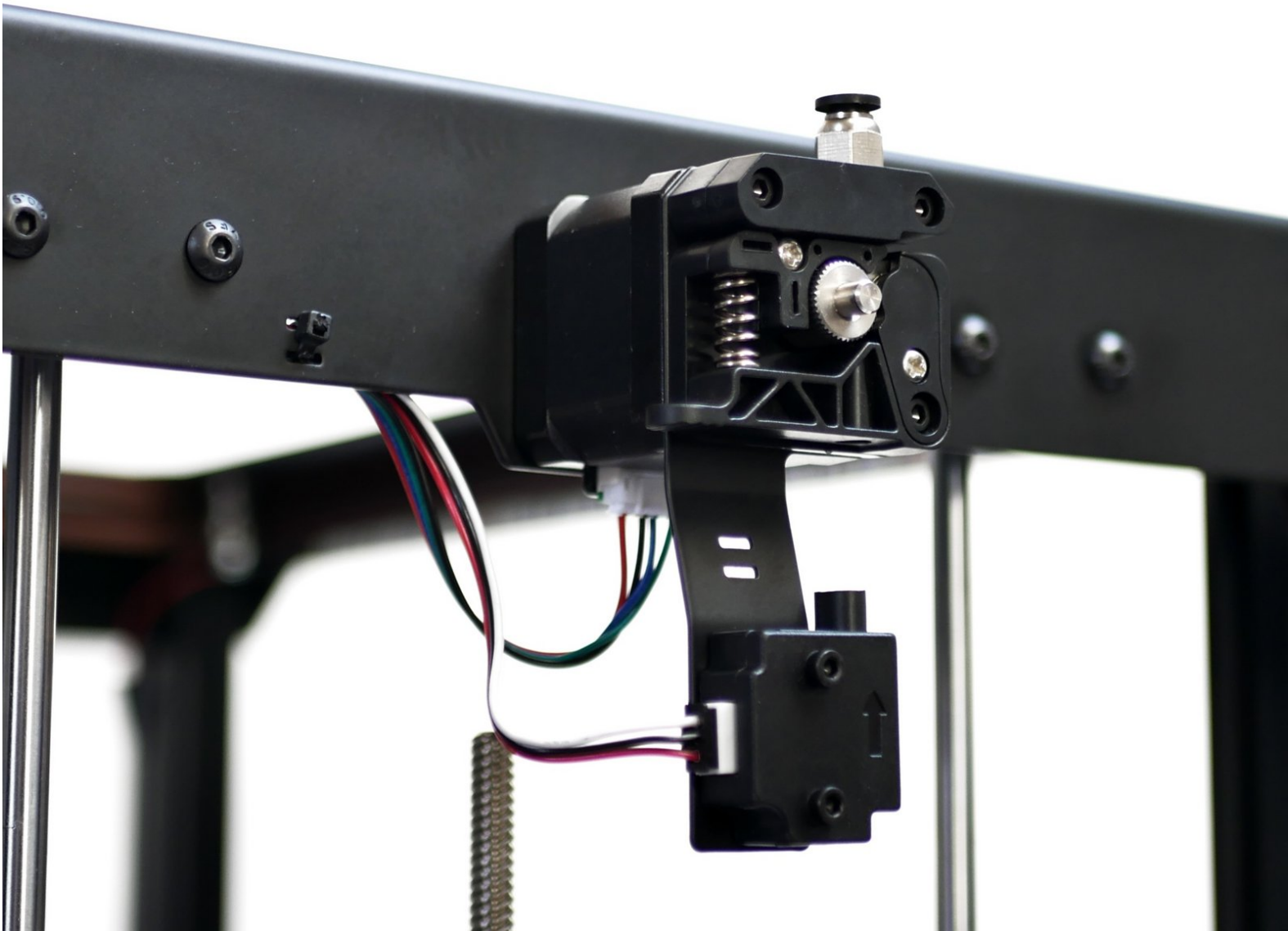


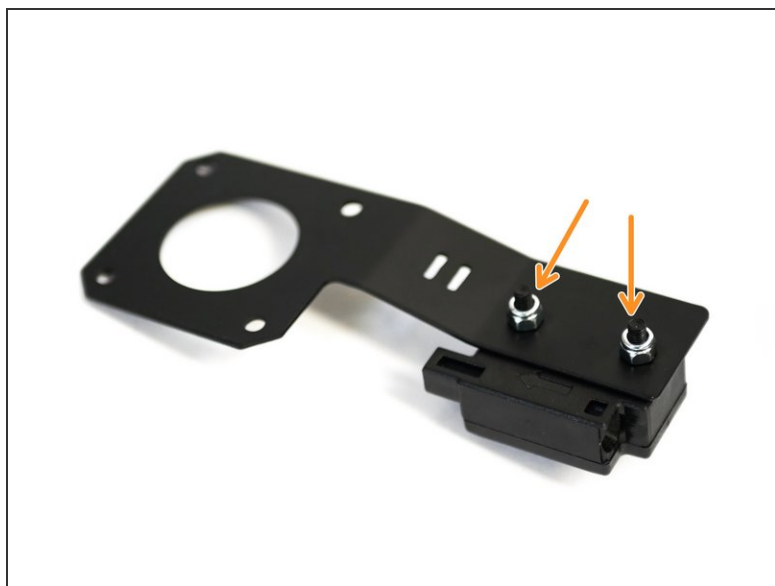
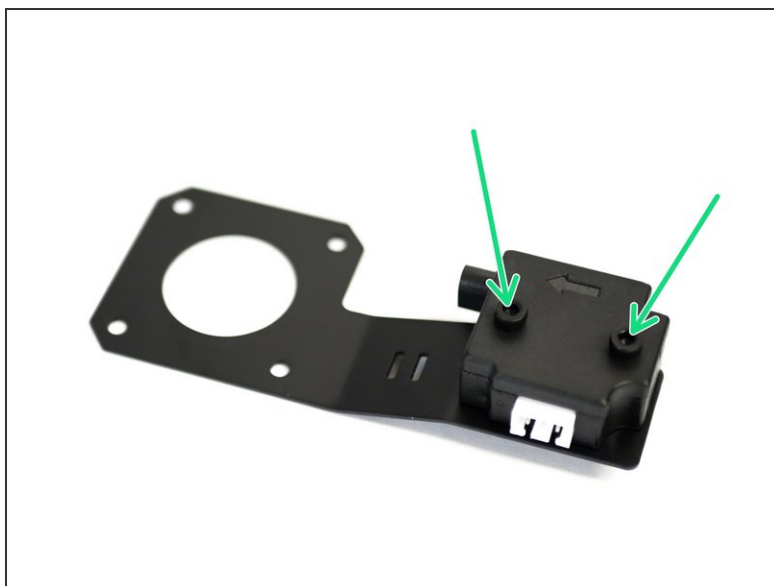
Makertech

Stage 03: Extruders

Written By: Makertech



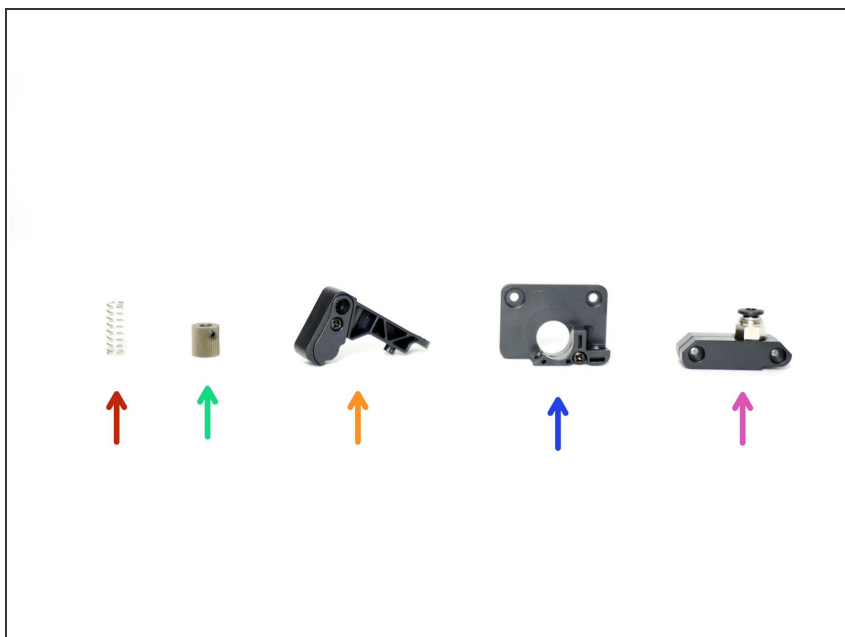
Step 1 — Filament Sensor Mount



i Take the filament sensor mount and fix a filament sensor onto it as shown.

- M3 x 20mm
- M3 Nyloc

Step 2 — The Extruder Components




● Extruder Spring

● Drive Gear

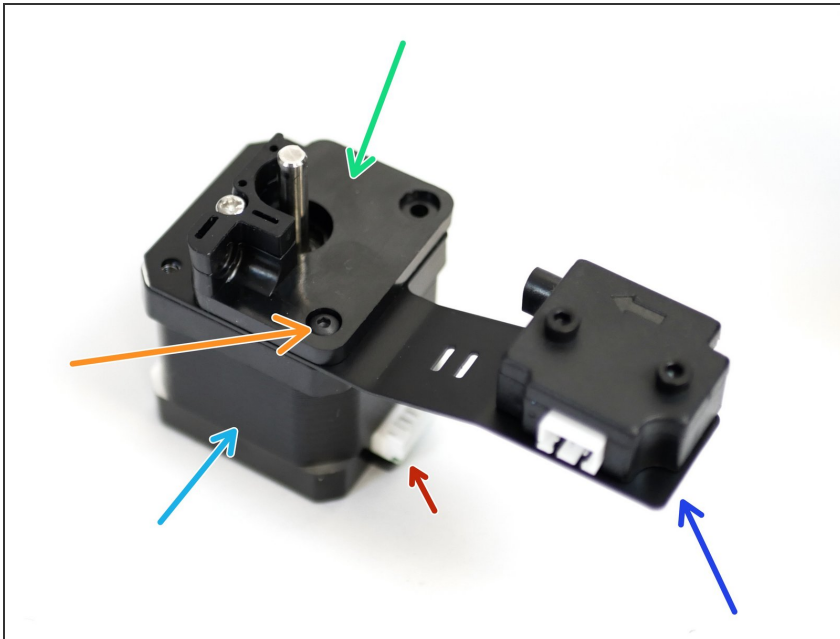
● Idler Arm

● Back Plate

● Coupling Mount

 This part may have split, it contains a brass nut also. The coupling is attached later.

Step 3 — Extruder Assembly

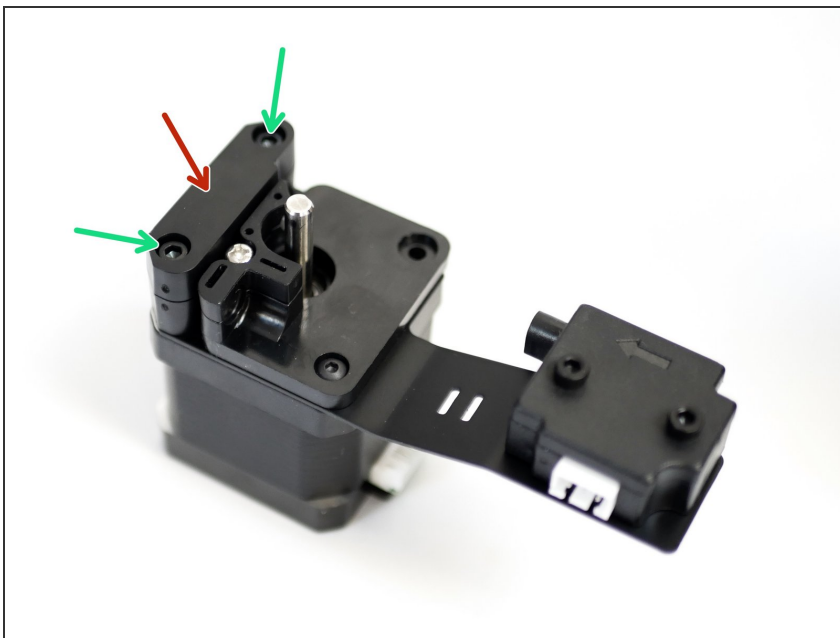


i Take the following components and secure together with one M3 x 6mm bolt.

- NEMA 17 Motor
- Filament sensor mount assembly
- Extruder Backplate
- M3 x 6mm Bolt

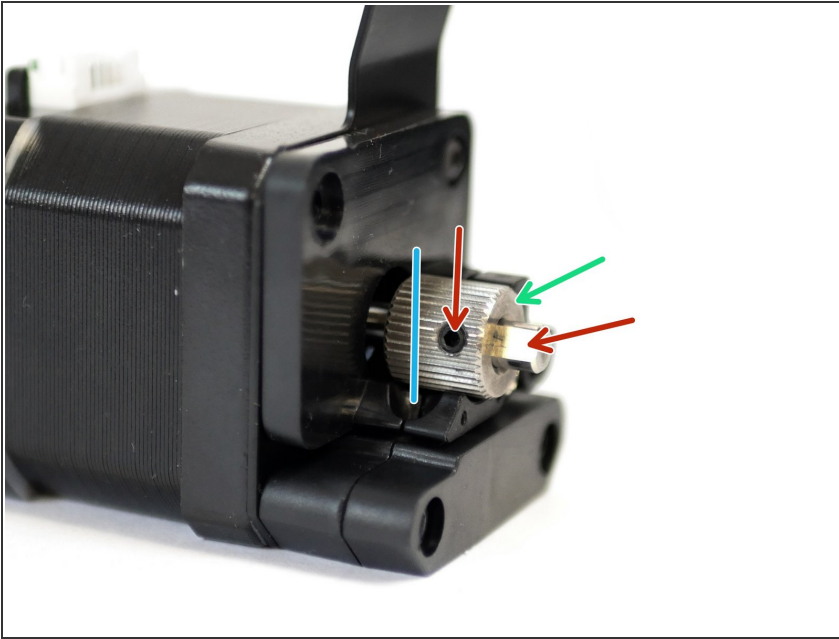
! Note the orientation of these components. In particular, the connector on the NEMA 17 motor.

Step 4 — Extruder Assembly Cont.



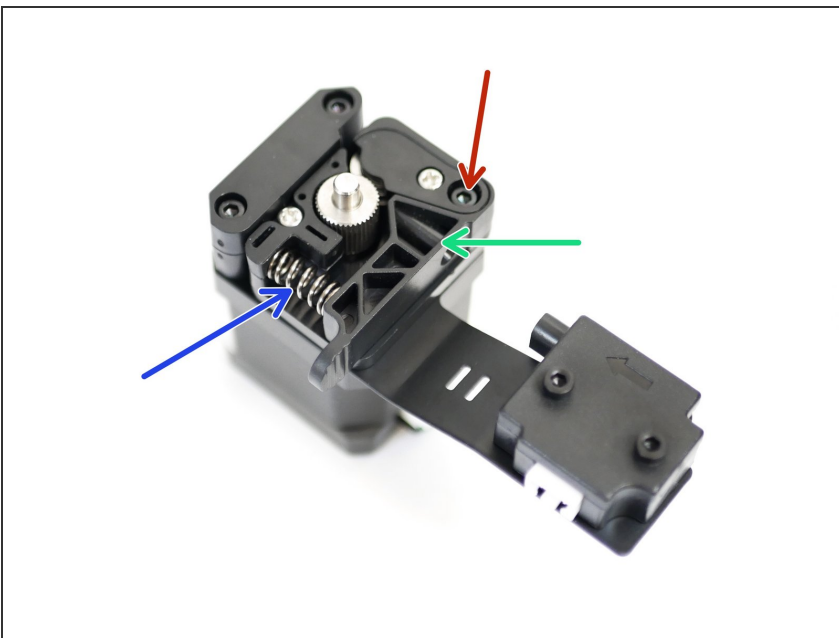
- Fix the coupling mount to the Motor face.
- M3 x 16mm bolt

Step 5 — Extruder Assembly Cont.



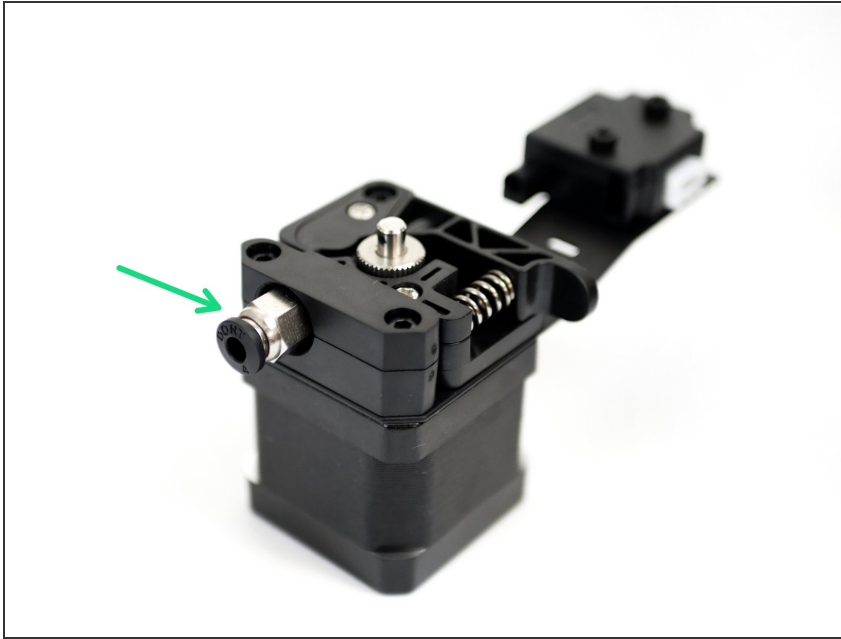
- Slide the drive gear onto the motor's shaft.
- Secure the grub screw against the flat of the shaft.
- Align the gear so that the teeth line up with the path of the filament.

Step 6 — Idler Arm



- Fix the Idler arm to the assembly.
- M3 x 16mm bolt
- Spring

Step 7 — Pneumatic Coupling



- Fix the pneumatic coupling onto the extruder assembly.

Step 8 — NEMA 17 Bolts



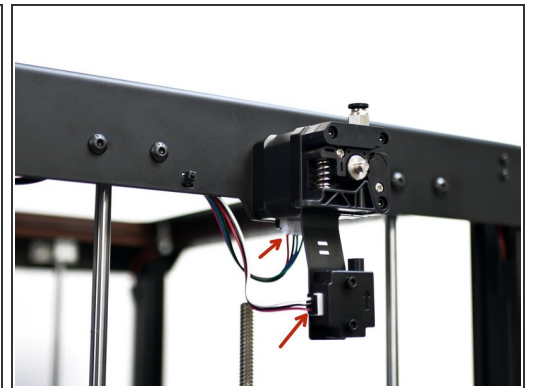
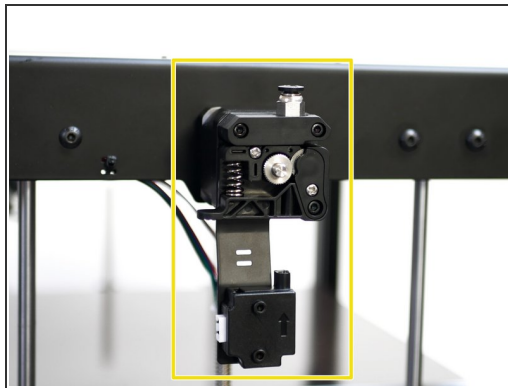
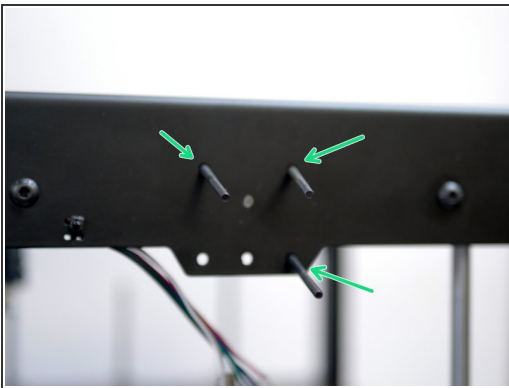
- From the rear of the NEMA 17 motor remove three of the four bolts as shown.

Step 9 — Mounting Bolts



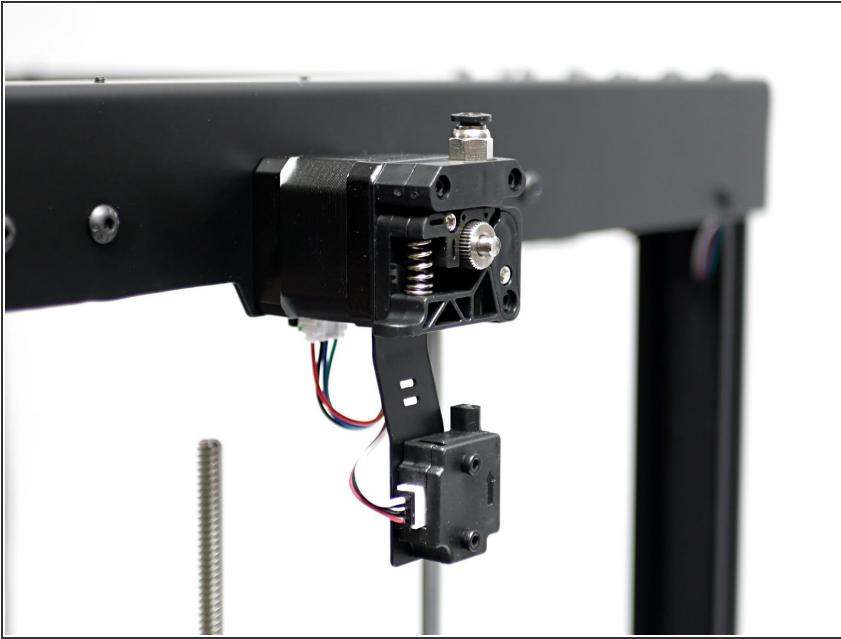
- ① Take three M3x40mm bolts and slide onto each an M3x2mm spacer.

Step 10 — Extruder Assembly to Top Panel



- Slide the bolts in through the mounting holes on the Top Panel, from the inside.
- Secure the Extruder assembly to the frame of the Proforge 3.
- Finally, connect the motor and sensor cables.

Step 11 — Second Extruder



- i** Repeat the previous steps for the second extruder on the right side of the printer.