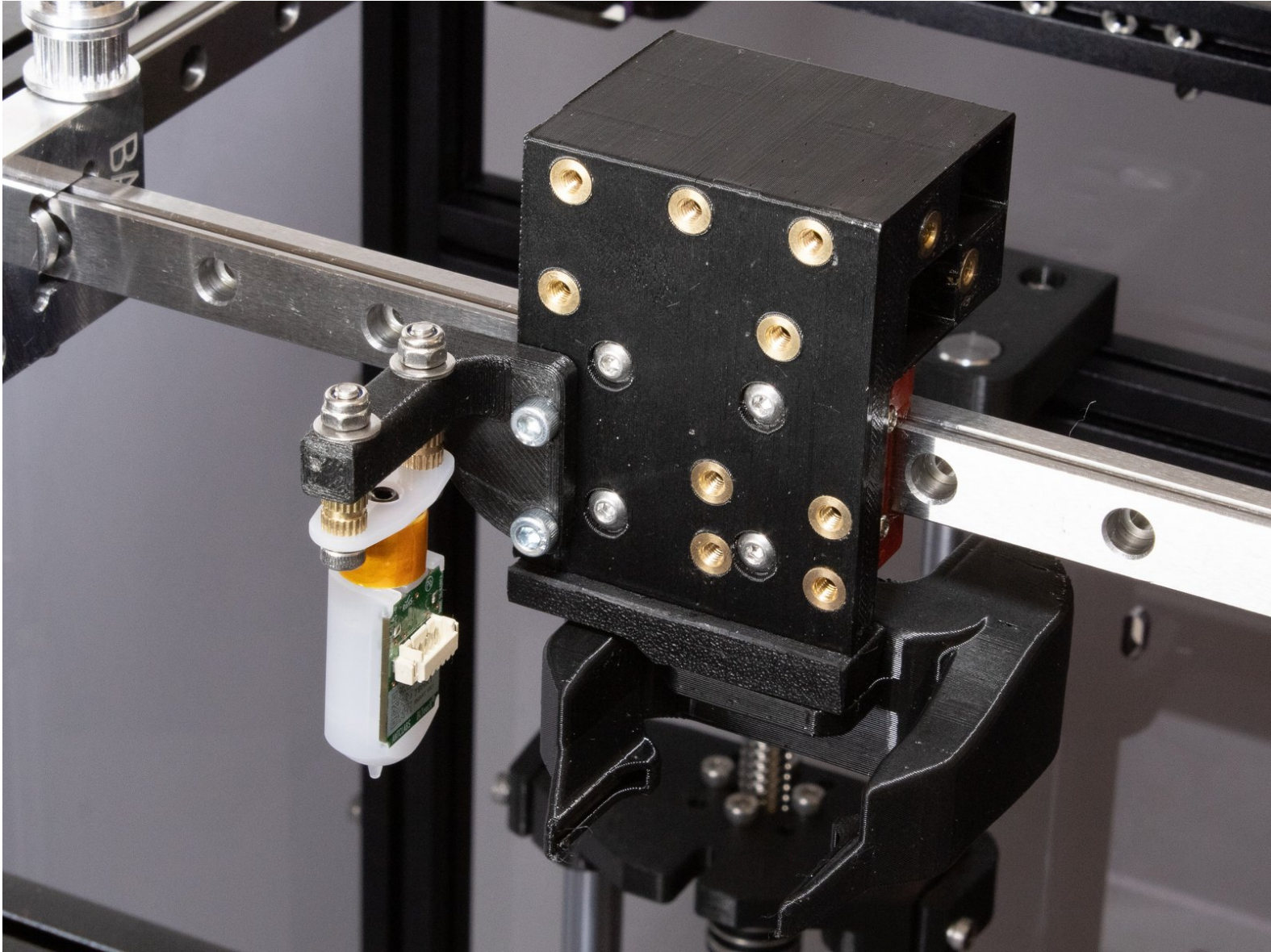


# railcore

## K) Y Carriage

Written By: Ben Withem

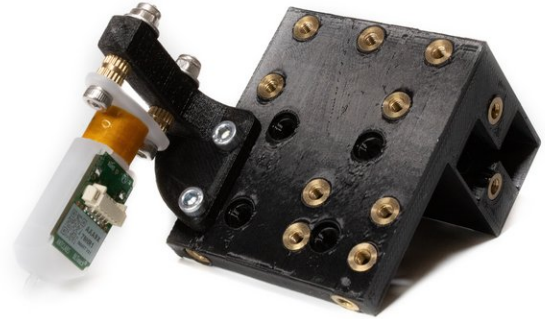
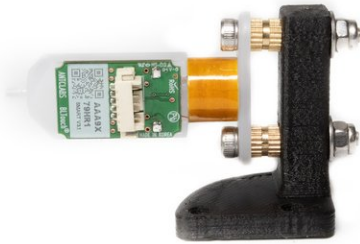




## PARTS:

- [Mini Harness W16](#) (1)
- [Printed Mini Y Carriage](#) (1)
- [Printed Layer Fan Adapter](#) (1)
- [Printed Cooling Shroud](#) (1)
- [BLTouch Sensor](#) (1)
- [M3 Washer](#) (2)
- [Y Endstop Mount](#) (1)
- [M3 Brass Insert](#) (2)
- [M3 x 20 Socket Head Screw](#) (2)
- [M3 x 8 Socket Head Screw](#) (4)
- [M2 Nut](#) (2)
- [M2 x 12mm Bolt](#) (1)
- [M3 Nut](#) (2)
- [M3 x 6mm button head bolt](#) (1)
- [M3 x 12mm Button Head Bolts](#) (1)
- [M3 x 8mm Button Head Bolt](#) (4)
- [M3 Nylock Nut](#) (2)

## Step 1 — K) Y Carriage



- i** Before you anything to the Y carriage, double check that all the brass inserts are in.
- Remove the wiring that comes pre-installed on the bltouch by disconnecting the connector. The kit wiring harness has a connector, these wires are not needed.
  - Put (2) m3 x 2 socket head screws pointing up through the holes in the BLTouch.
  - Thread a brass insert down on the bolt, tight against the BLTouch.
  - Pass the bolt up through the BLTouch mount.
  - Put a single M3 washer on each screw, and then an M3 nylock nut.
  - Attach the BLTouch mount to the printed Y carriage using (2) M3 x 8 socket head screws.

## Step 2 — Prep Layer Fan Install



- Locate the printed layer fan adapter, and insert an M3 nut into the slot on it as shown.
- Attach the layer adapter to the bottom of your Y carriage using a single M3 x 6 button head bolt.

### Step 3 — Attach Part Cooling Fan Shroud



- Attach the printed layer fan shroud to the adapter using (1) M3 x 8 button head screw into the hole that has the M3 nut you installed earlier.
- Insert (1) M3 x 12 button head screw in the remaining hole to finish installing the layer fan shroud.

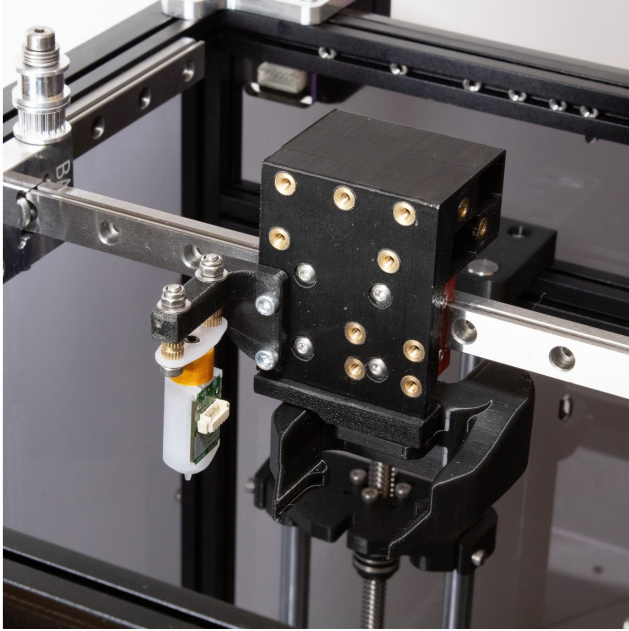
### Step 4 — Y Endstop Prep



- The Y endstop and part cooling fan share a cable harness (W16).
- Attach the Y endstop switch to the Y endstop mount using (2) m2 x 12mm Bolts and (2) m2 nuts.

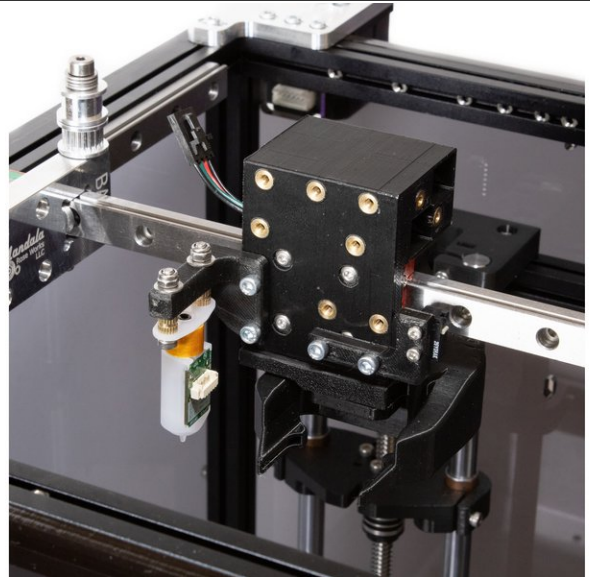
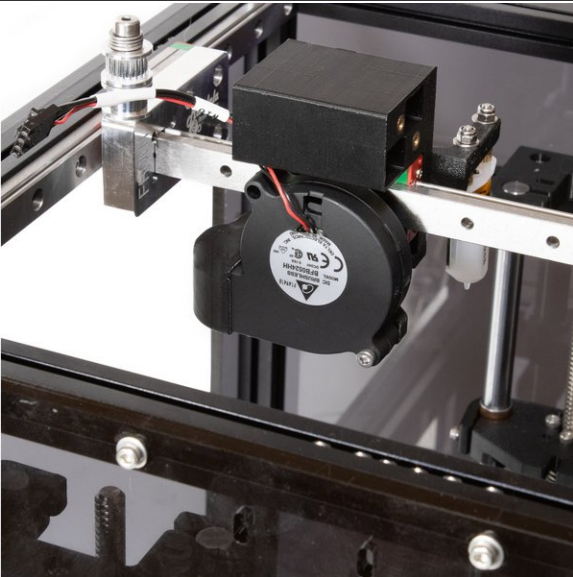


## Step 5 — Y Carriage Installation



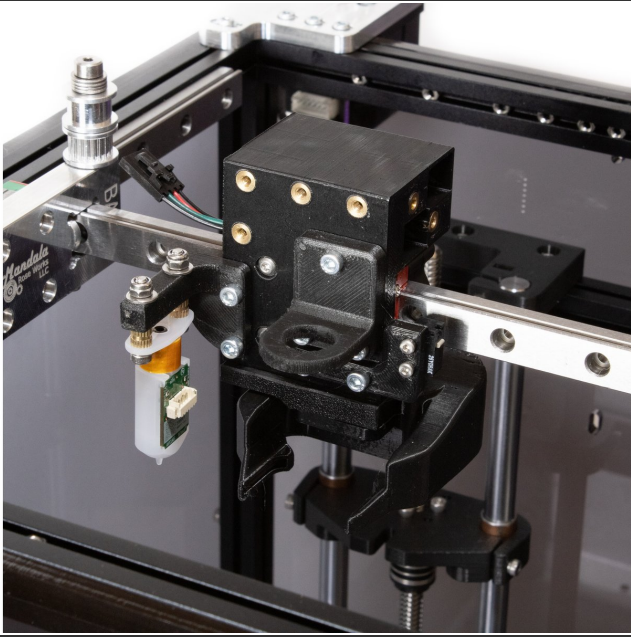
- Bolt the Y Carriage to the Y rail using (4) M3 x 8mm button head screws. (Socket Cap Head Screws will not work here, use button head regardless of the kit you're building).
- ❗ You may want a dab of loctite on the bolts for attaching the Y carriage to the Rail, they're hard to get to later.

## Step 6 — Install Layer Fan and Y Endstop



- Attach the 5015 blower to the layer fan shroud using (1) M3 x 20 socket head screw.
- Attach the Y endstop mount to the bottom right two holes in the Y carriage using (2) M3 x 8mm socket head screws.

## Step 7 — Attach Revo Micro Mount



- Attach the Revo Micro mount to the carriage using (3) M3 x 8 socket head screws.