

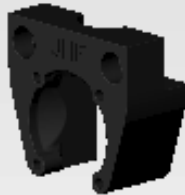
Y Stop Blocks.

Use as needed (1 on each side)



Hotend mount.
- UHF mount for Rapido UHF configuration
- HF mount for Rapido HF configuration

Part cooling 4020 blower fan



Hotend fan

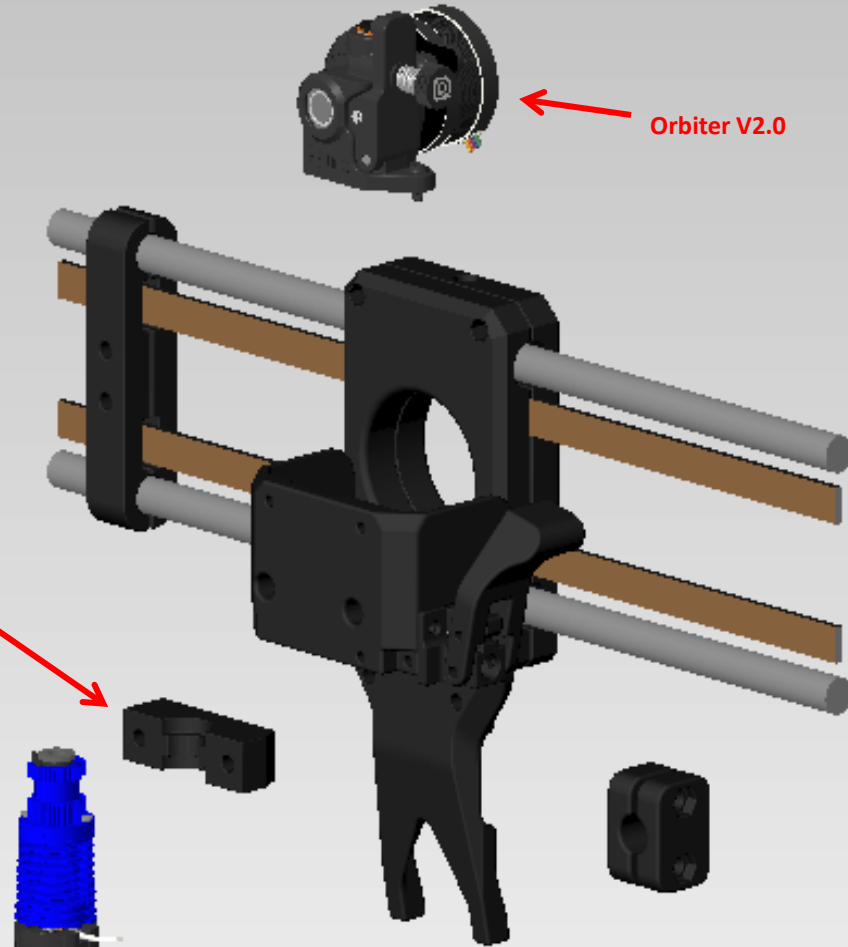


ADXL345 Accelerometer Mount

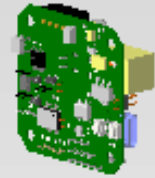


Mounts to the front bottom holes of the hotend fan

Only attach when resonance testing. Remove when printing.



Orbiter V2.0



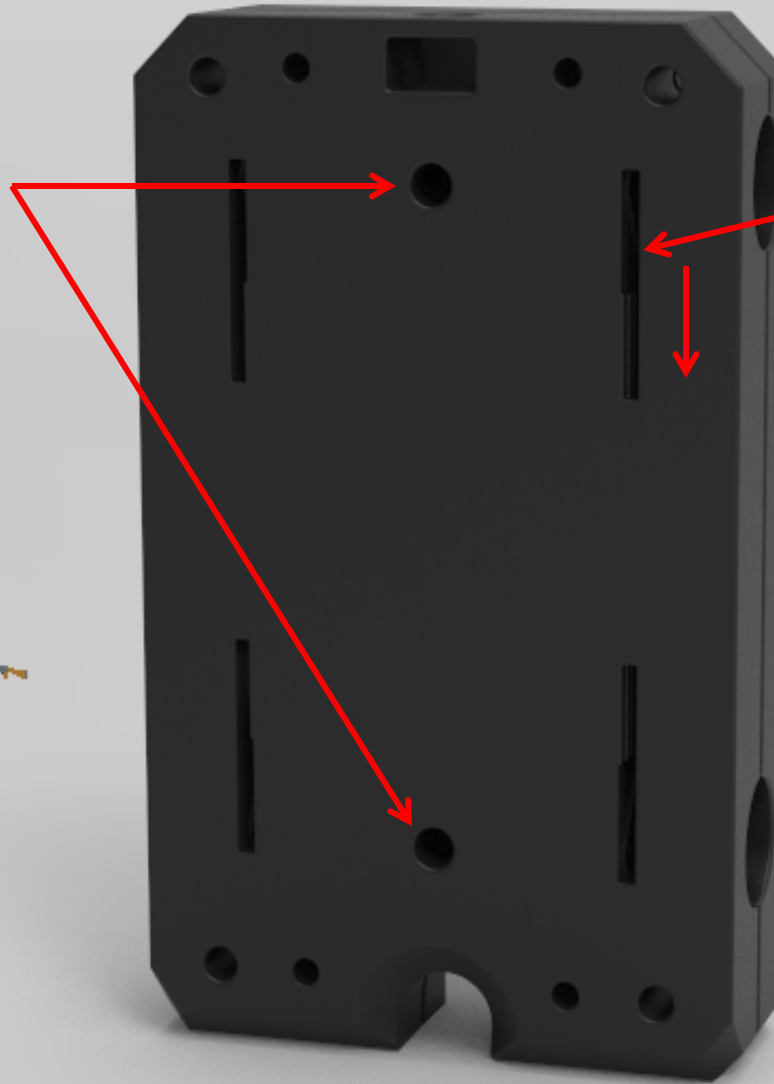
EBB42 Can Bus Board (Optional)



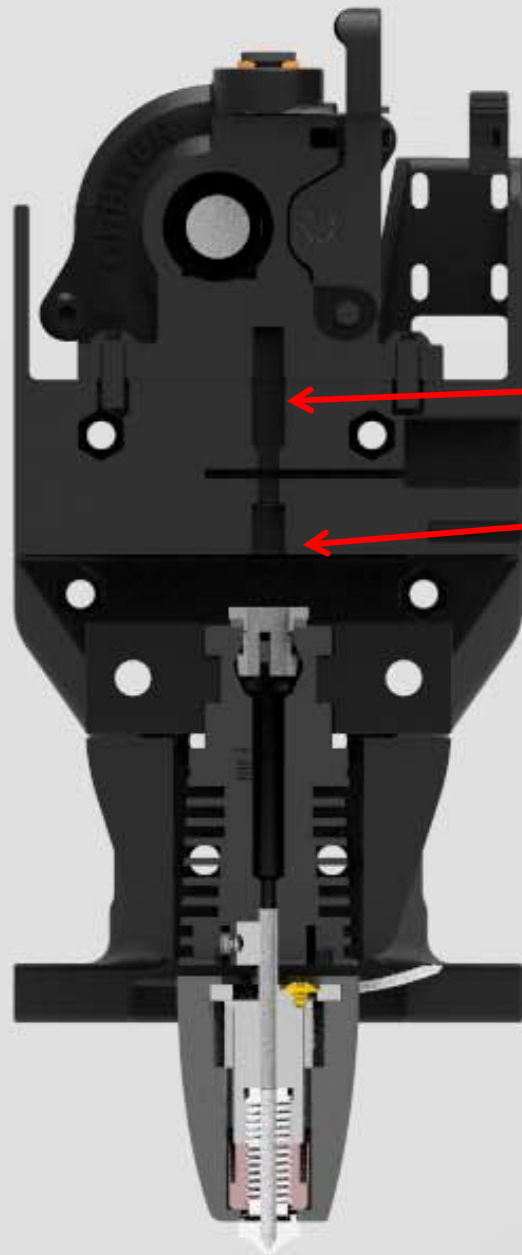
Beacon/Cartographer
Probe

Rapido UHF PLUS

After the two halves of the block are screwed together, lightly tighten the screws in heat inserts in these two holes until the block does not wobble anymore on the rods/bearings.



Slide each end of the belts into these slots from the inside, then slide the belts down into the narrower slot to lock them in place before screwing the two halves of the block together.



16mm long

46mm long
(UHF configuration)

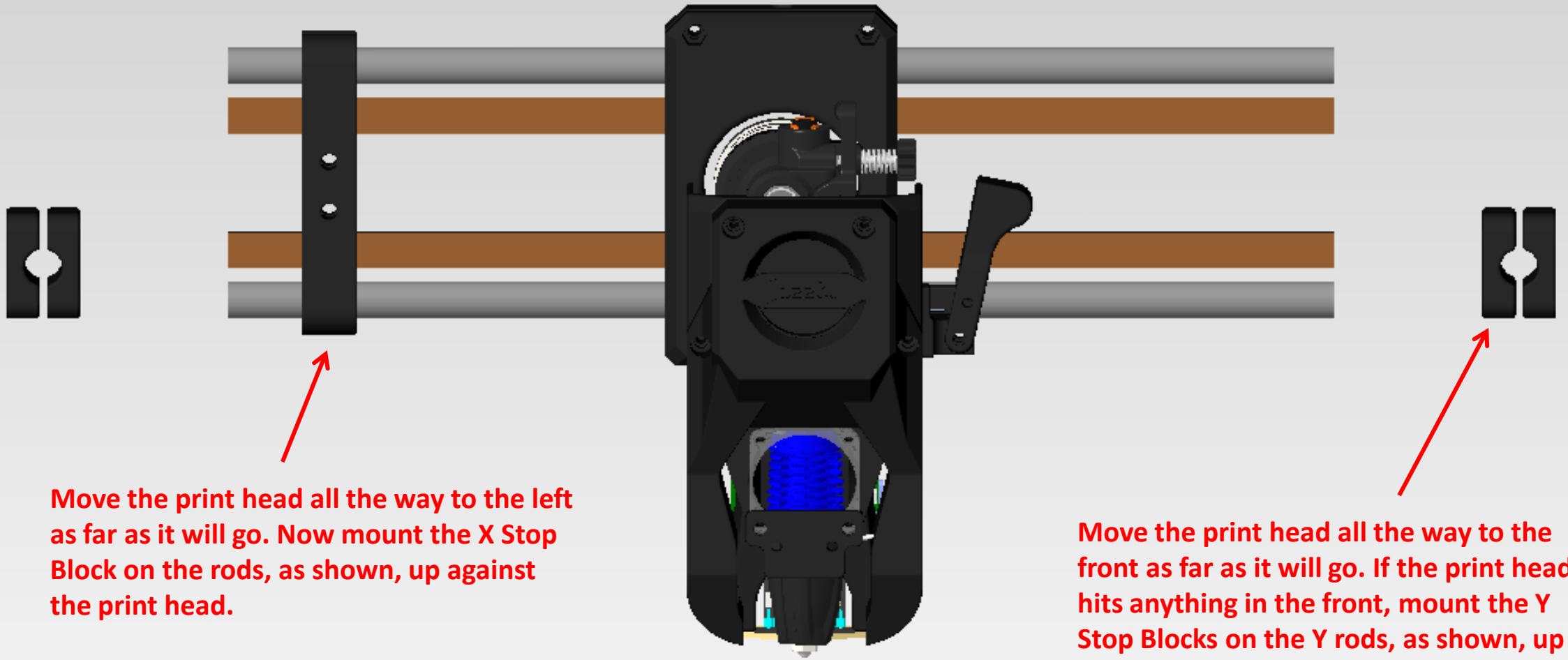
56mm long
(HF configuration)

Cut 2 pieces of PTFE 4mm OD x 2mm ID tubing , one 16mm long and the other 46mm long.

Bevel the inside edge of the top of each tube slightly to form a funnel shape.

Insert the the tubes between the carriage back plate and the Orbiter and Rapido.

****Note:** The mounting block will have to be removed to mount the Orbiter, then reinstall the mounting block.



Move the print head all the way to the left as far as it will go. Now mount the X Stop Block on the rods, as shown, up against the print head.

Move the print head all the way to the front as far as it will go. If the print head hits anything in the front, mount the Y Stop Blocks on the Y rods, as shown, up against the Y carriages, 1 on each side.

Config Changes for X Max 3 / X Plus 3

Extruder

- Rotation_distance: 4.637
- Comment out the gear_ratio line

*Make sure to PID tune the hotend and run Pressure Advance calibrations

TMC2209 Extruder

- Run_current: 0.650 (Orbiter)

ADXL345

- Axes_map: x, -z, y (must be lower case letters)

Stepper X

- Position_min: 0
- Position_endstop: 0
- Position_max: 300 (XM3); 255 (XP3)

Stepper Y

- Position_min: 0
- Position_endstop: 0
- Position_max: 300 (XM3 without RCS); 260 (XM3 with RCS)
255 (XP3 without RCS); 215 (XP3 with RCS)

Stepper Z

- Position_max: 240 (XM3); 195 (XP3)

Probe

- X_offset: 0.0
- Y_offset: 29.5
- Z_offset: 2.6

For X/Y/Z max positions, start with these values and adjust as need from there.

IMPORTANT!!!

**MAKE SURE TO CHECK FAN
POLARITY BEFORE PLUGGING
THE FANS IN AND TURNING
ON THE PRINTER.**