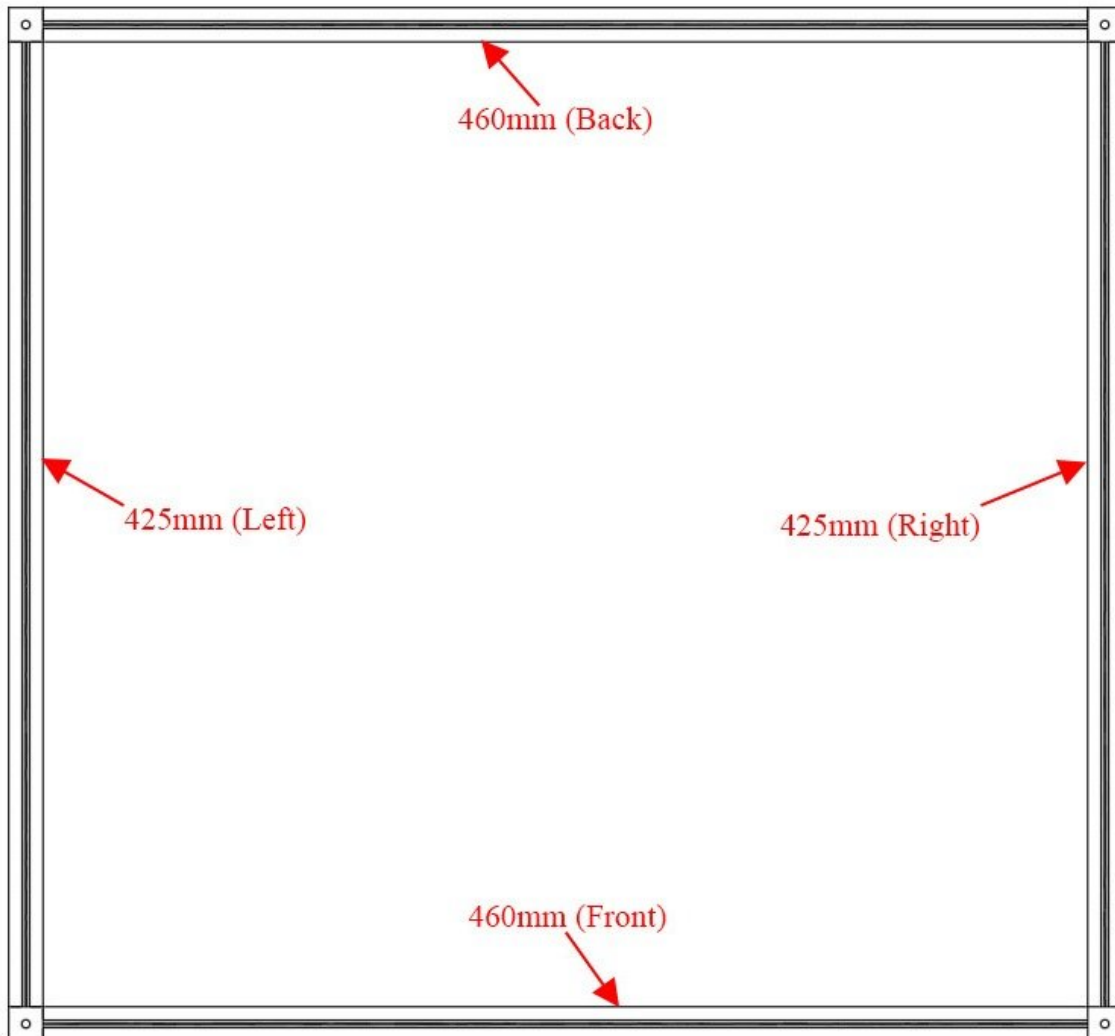


railcore

D) Bottom Extrusions Assembly

Written By: Tony Akens



INTRODUCTION

It's assumed that you're building a kit from Filastruder, and you've completed all previous sections. At the end of this section you should have a "bottom extrusions" assembly together for your RailCore frame.



TOOLS:

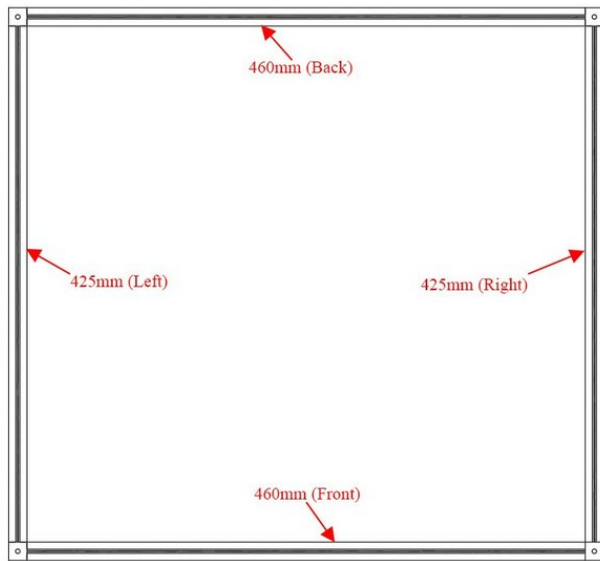
- [5.5mm Nut Driver](#) (1)
- [Allen Key](#) (1)



PARTS:

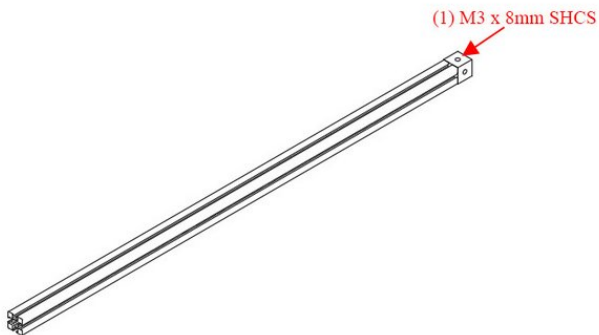
- [460mm extrusion](#) (2)
- [425mm extrusion](#) (2)
- [Corner Cube](#) (4)
- [M3 Nut](#) (8)
- [M3 x 8mm Button Head Bolt](#) (8)
- [M3 x 10mm hex head bolt](#) (32)
- [M3 x 16mm hex head bolt](#) (17)

Step 1 — Layout Bottom Frame



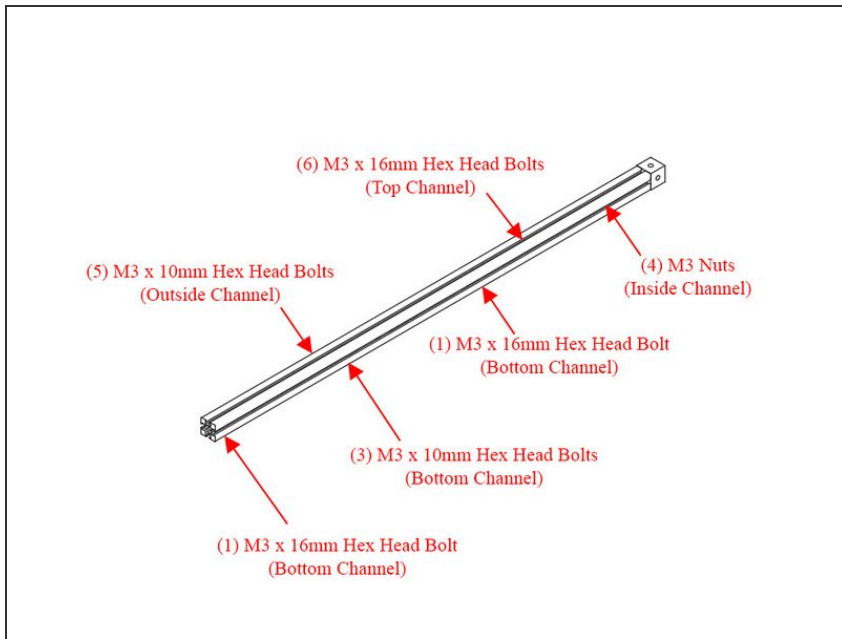
- Layout Bottom Frame as shown. Note that the corner cubes should have a small hole facing up.
- ⚠ The kit includes (2) untapped 425mm extrusions - for this step be sure to use the tapped extrusions.
- It is a good idea to mark each extrusion with a bit of masking tape on top, indicating which extrusion it is.

Step 2 — Install Corner Cube on Bottom Left Extrusion



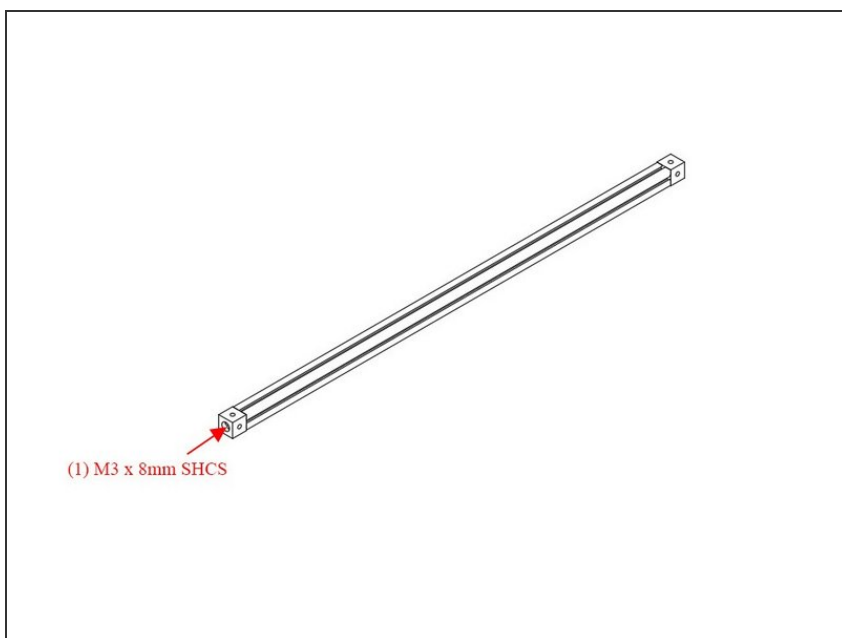
- Use (1) M3 x 8mm socket cap head screw to the 425mm bottom left extrusion. Note the orientation of the corner cube.

Step 3 — Add Hardware to Bottom Left Extrusion



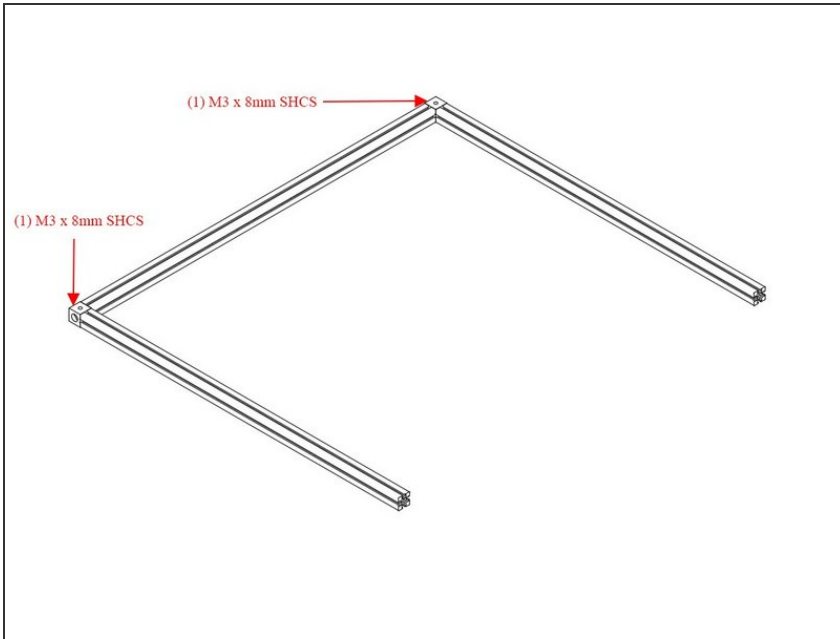
- Slide (6) M3 x 16mm hex head bolts into the top channel.
- Slide (5) M3 x 10mm hex head bolts into the outside channel.
- Slide (4) M3 nuts into the inside channel. Note: If using a metal bottom (base plate), these are not needed.
- In the bottom channel the order is (1) M3 x 16mm head head bolt, (3) M3 x 10mm hex head bolts, (1) M3 x 16mm hex head bolts. It is very important they're in this order, the longer bolts on the end are for attaching the feet.

Step 4 — Add Second Corner Cube to Bottom Left Extrusion



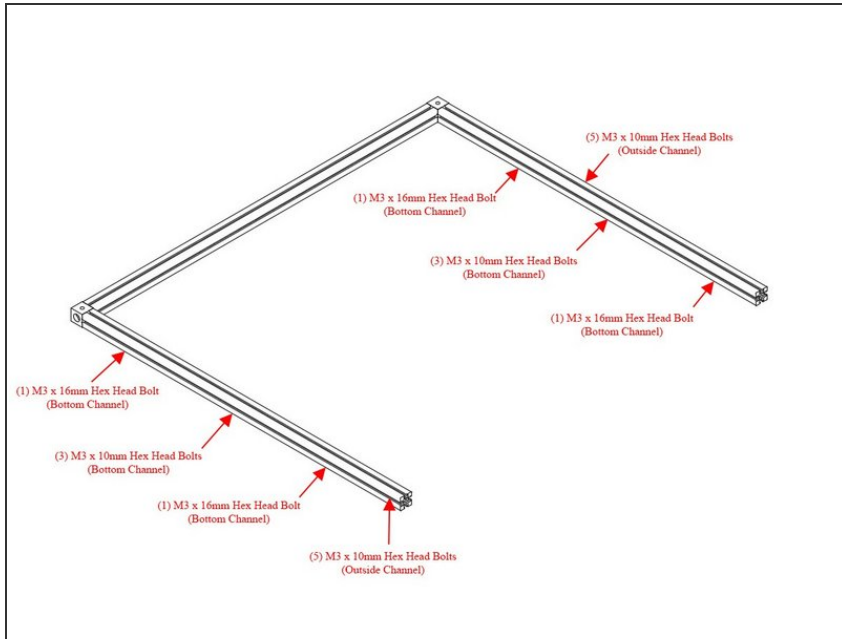
- Use (1) M3 x 8mm socket cap head screw to attach the second corner cube to the other end of the bottom left extrusion. Note hole orientation.

Step 5 — Add Bottom Front and Bottom Rear Extrusions



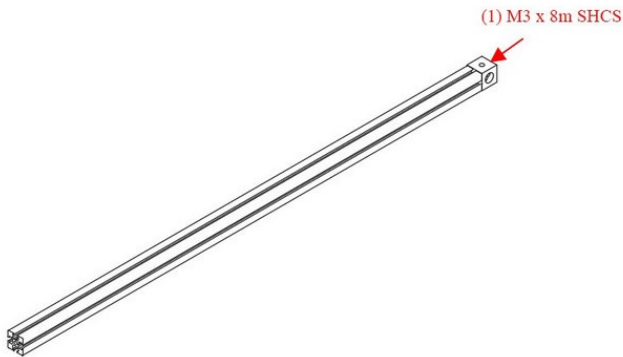
- Attach Bottom (2) 460mm Front and Bottom Back Extrusions using (1) M3 x 8mm Socket Cap Head Screw each.

Step 6 — Add Hardware into Bottom Front and Bottom Rear Extrusions



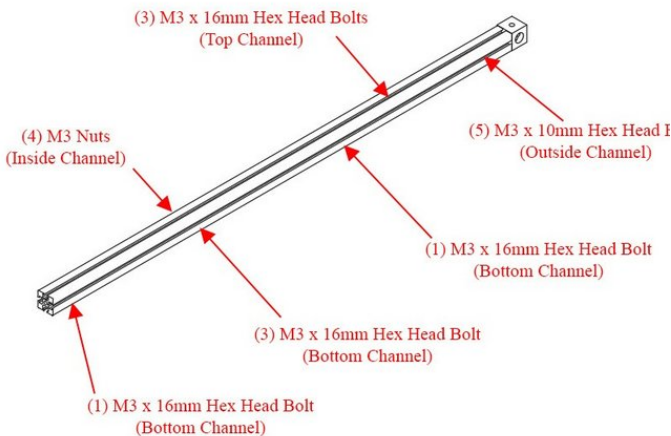
- Slide (5) M3 x 10mm hex head bolts in the outside channel of the bottom rear extrusion.
- The bottom channel of the bottom rear extrusion gets (1) M3 x 16mm hex head bolt, (3) M3 x 10mm hex head bolts, and (1) M3 x 16mm hex head bolt, in that order.
- Slide (5) M3 x 10mm hex head bolts in the outside channel of the bottom front extrusion.
- The bottom channel of the bottom front extrusion gets (1) M3 x 16mm hex head bolt, (3) M3 x 10mm hex head bolts, and (1) M3 x 16mm hex head bolt, in that order.
- Set this assembly aside, so you can assemble the bottom right extrusion.

Step 7 — Install Corner Cube on Bottom Right Extrusion



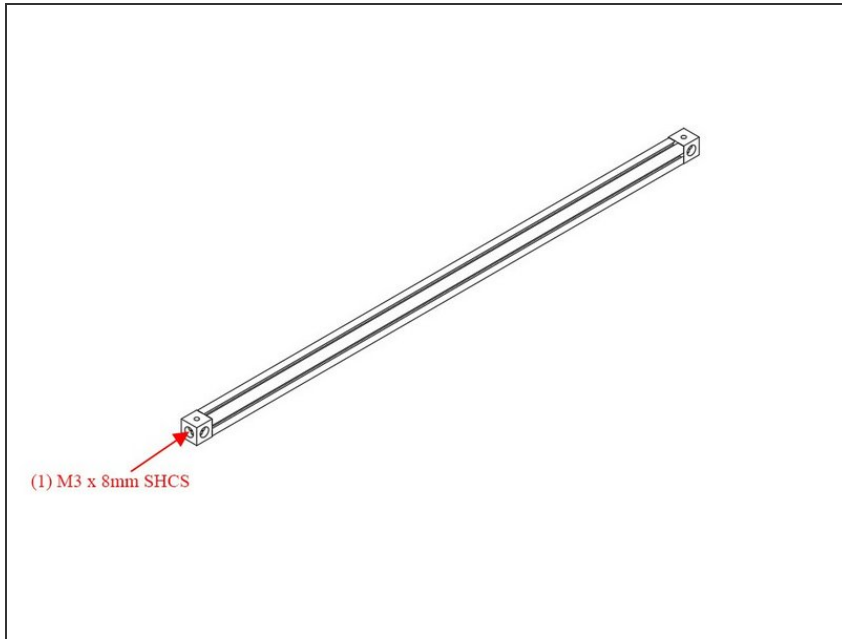
- Use (1) M3 x 8mm Socket Cap Head Screw to add a corner cube to the bottom right 425mm extrusion. Note the orientation of the corner cube - a small hole needs to face up.

Step 8 — Add Hardware into Bottom Right Extrusion



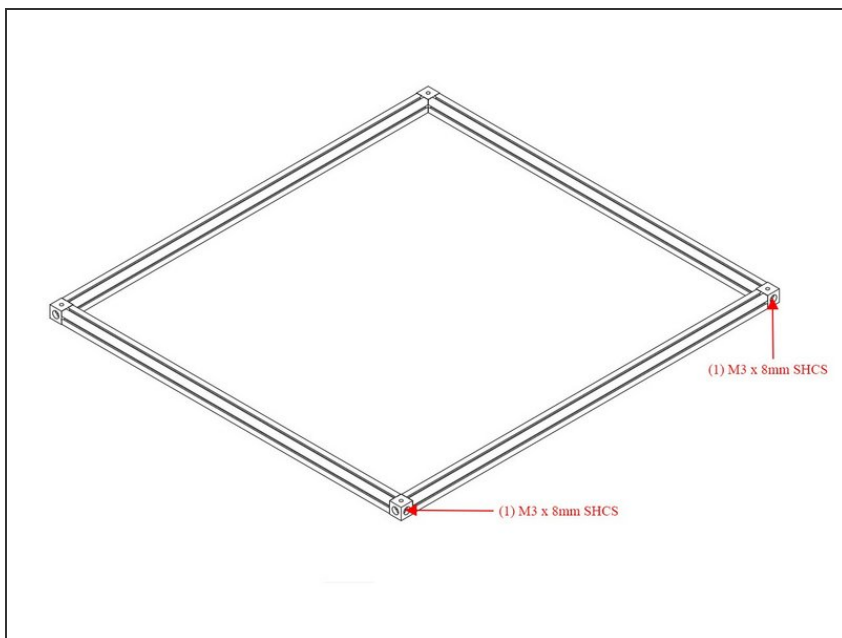
- Slide (3) M3 x 16mm hex head bolts in the top channel
- Slide (4) M3 nuts in the inside channel. Note: If using a metal bottom (base plate), these are not needed.
- Slide (5) M3 x 10mm hex head bolts in the outside channel.
- In the bottom channel add the following hardware in this order: (1) M3 x 16mm hex head Bolt, (3) M3 x 16mm hex head Bolt, (3) M3 x 10mm hex head bolts, (1) M3 x 16mm hex head bolt.

Step 9 — Add Second Corner Cube to Bottom Right Extrusion



- Use (1) M3 x 8mm Socket Head Cap Screw to attach a second corner cube to the bottom right extrusion. Note the orientation of the corner cube - a small hole should be facing up.

Step 10 — Attach Bottom Right Extrusion to the Rest of the Bottom Frame



- Use (2) M3 x 8mm Socket Cap Head Screws to attach the bottom right extrusion to the rest of the bottom frame assembly from earlier.