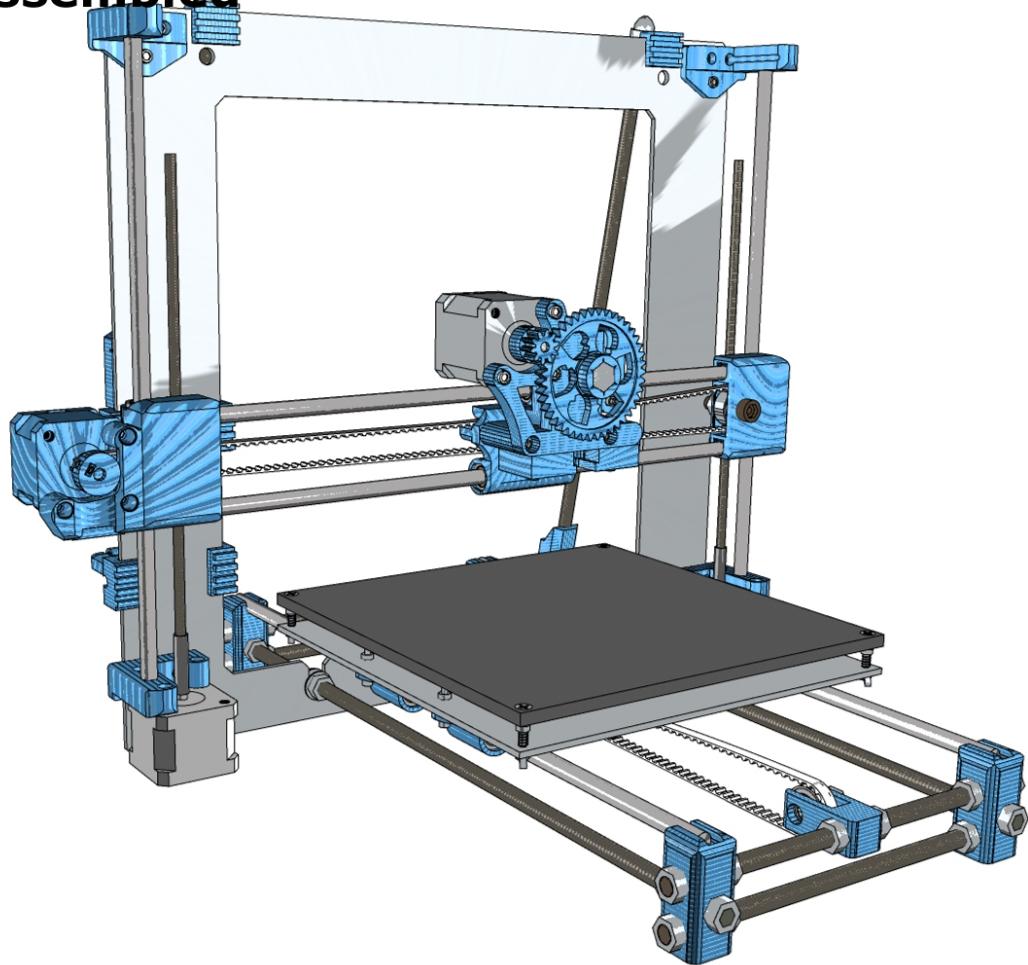


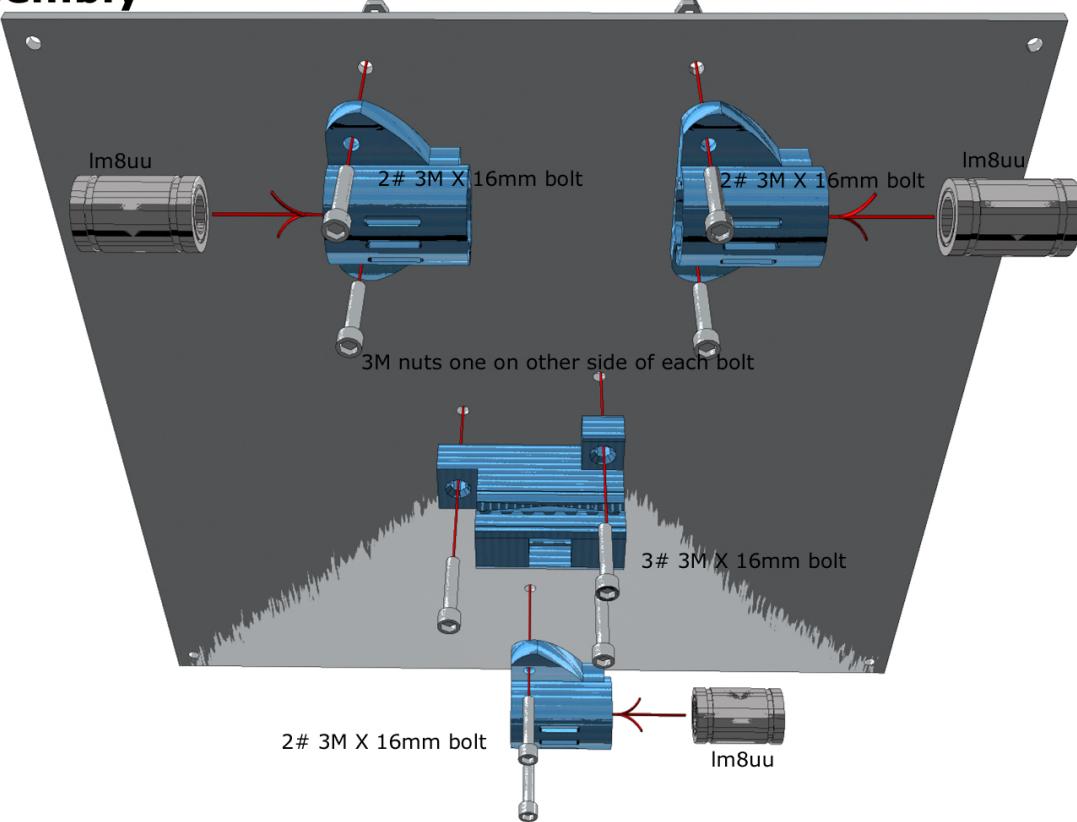
Fully Assembled



@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

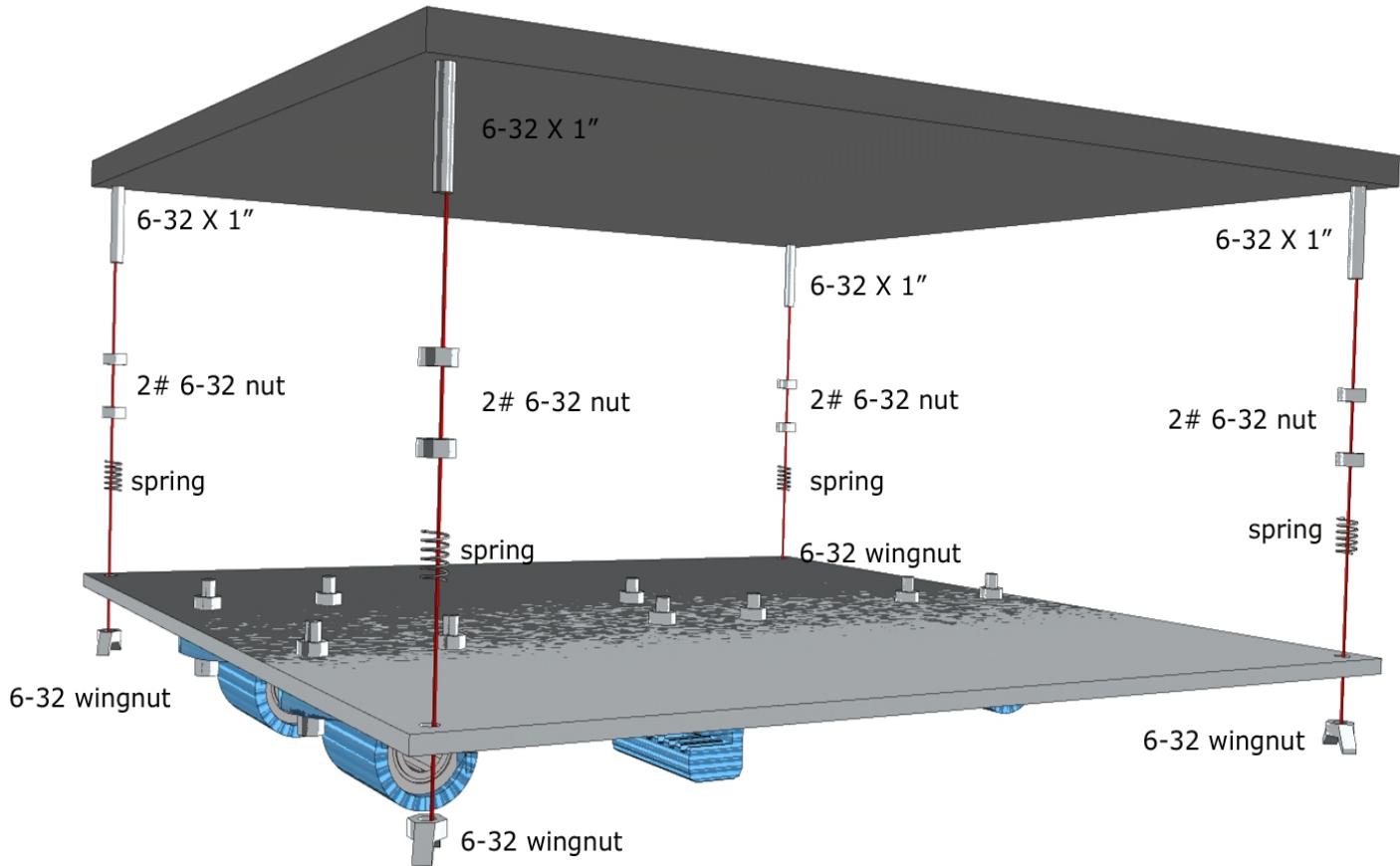
i3X & i3XL
BUILD INSTRUCTIONS

Bed Base Assembly



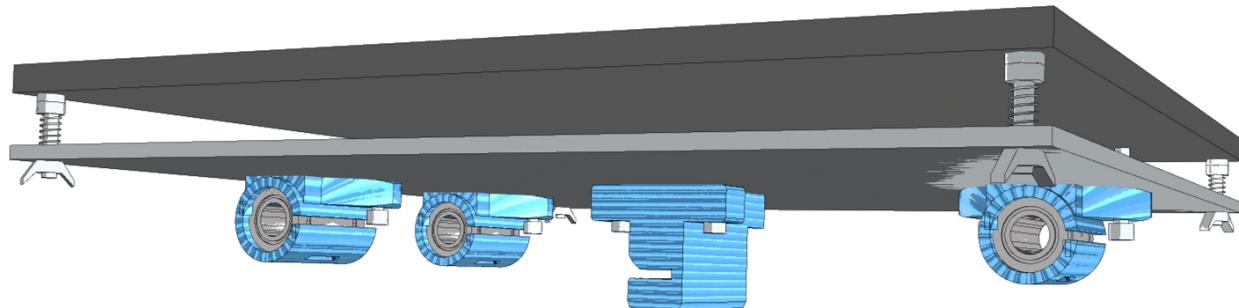
@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

Bed Top Assembly



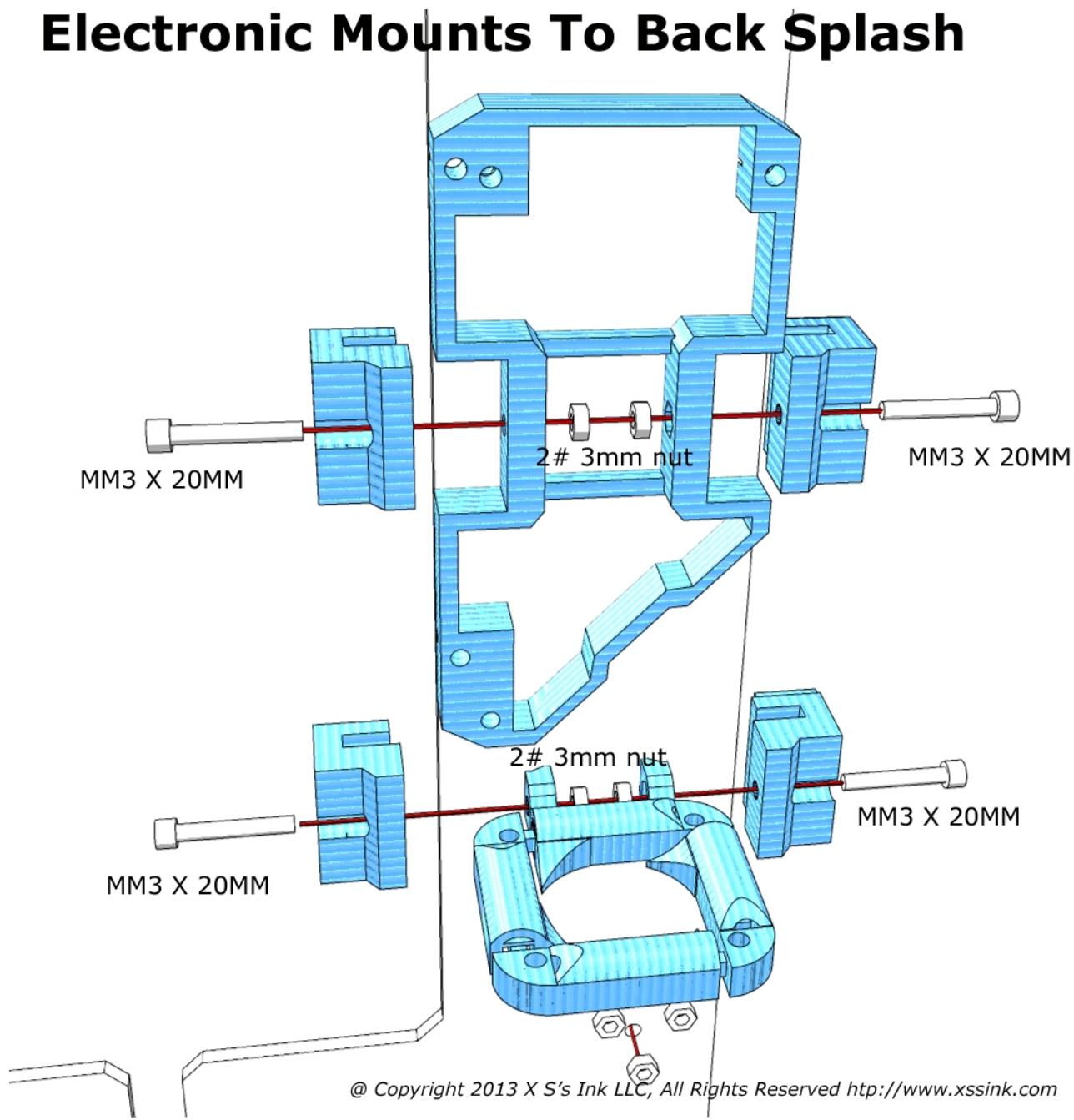
@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

Bed Assembled

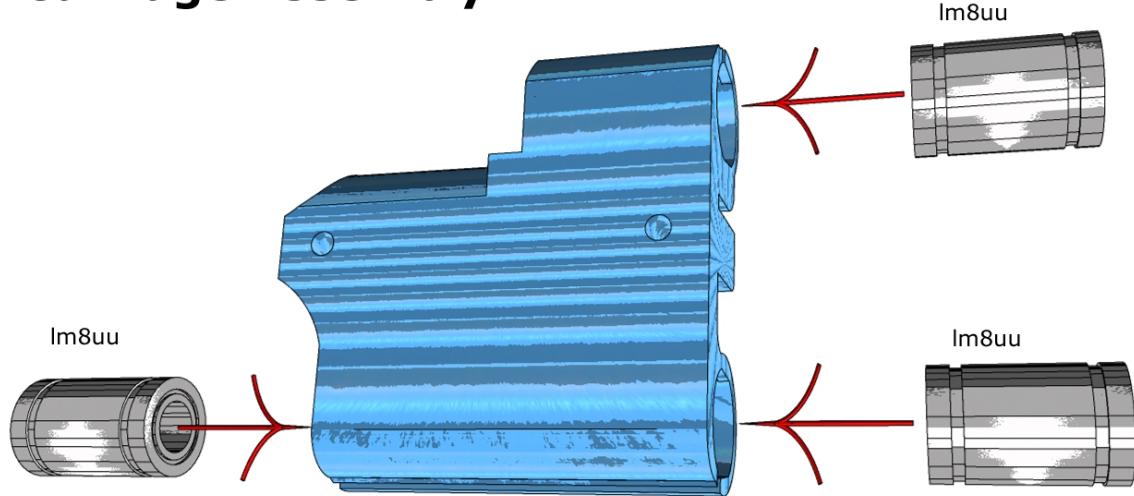


@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

Electronic Mounts To Back Splash

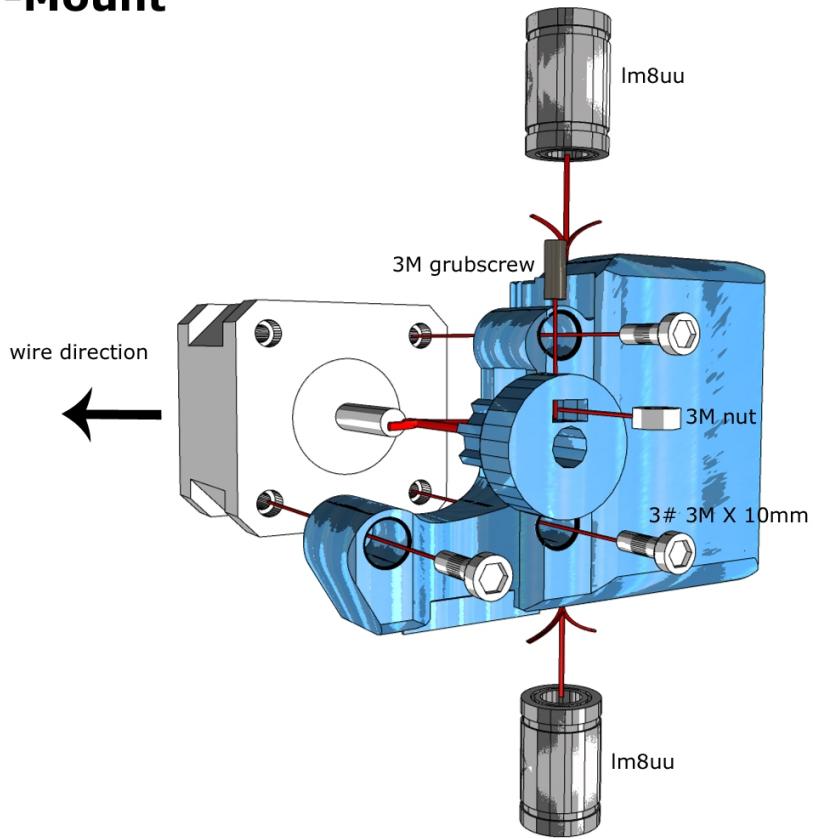


X Carriage Assembly



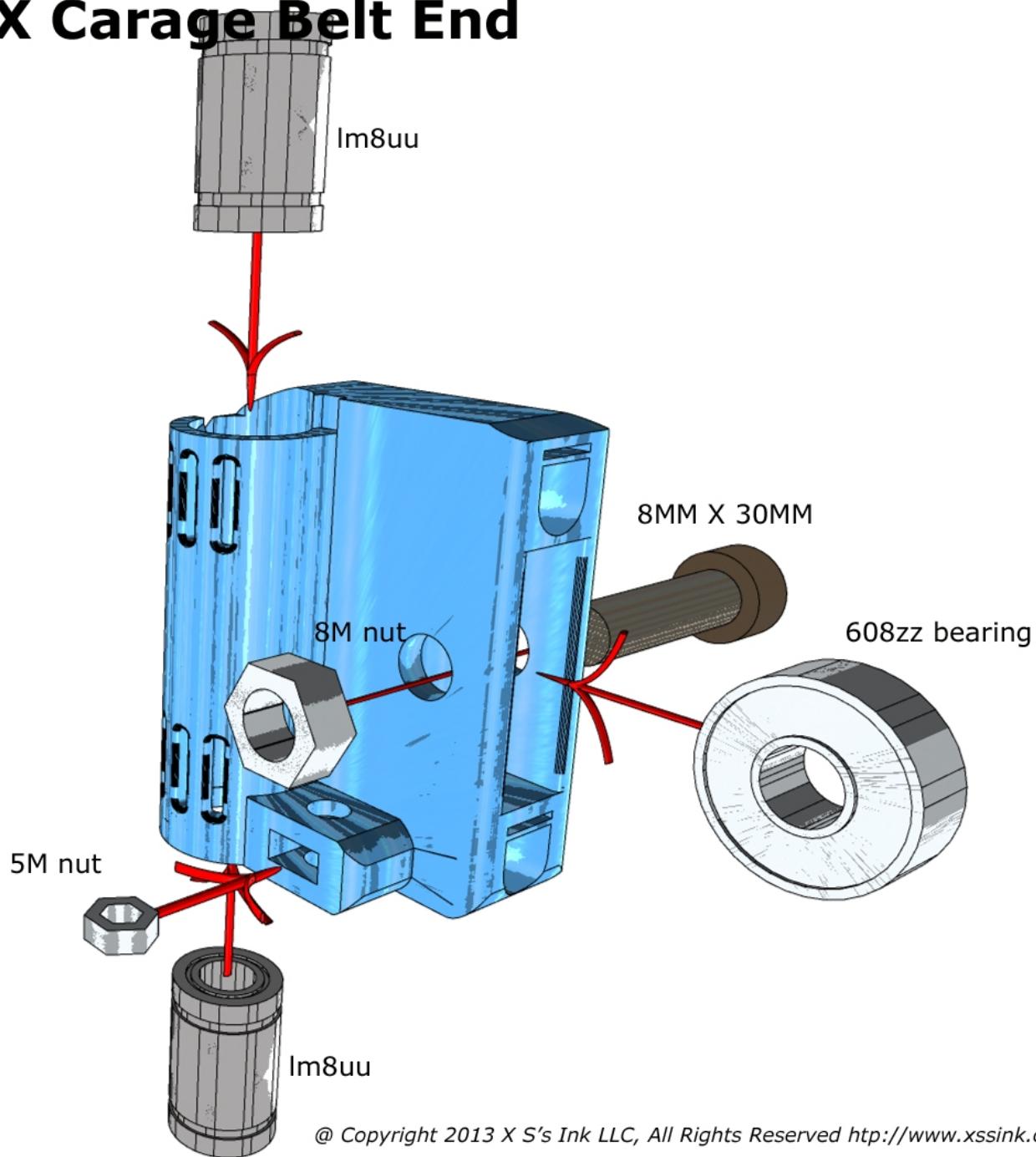
© Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

X End Motor-Mount



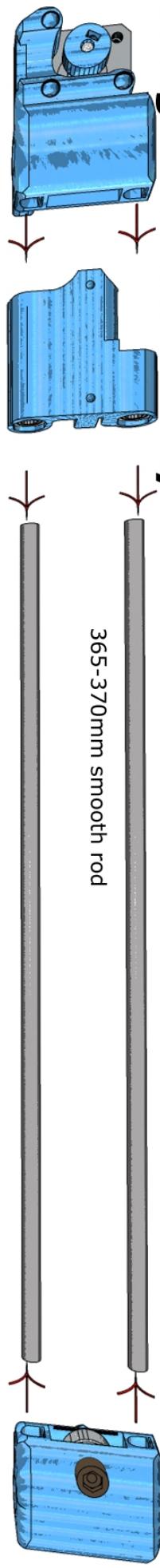
© Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

X Carage Belt End



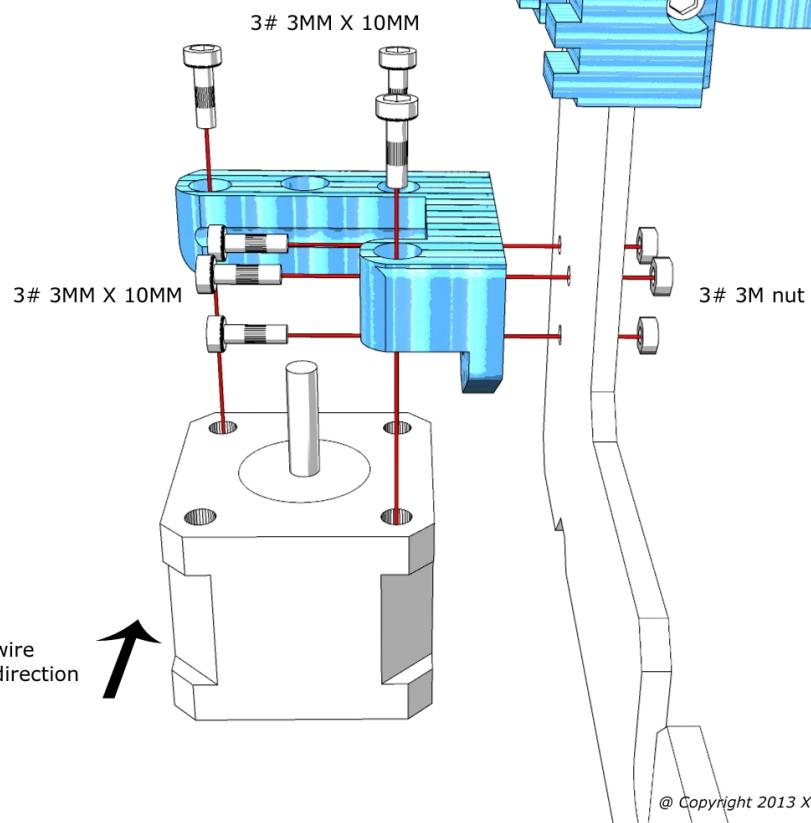
@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

X Carage Full-Assembly



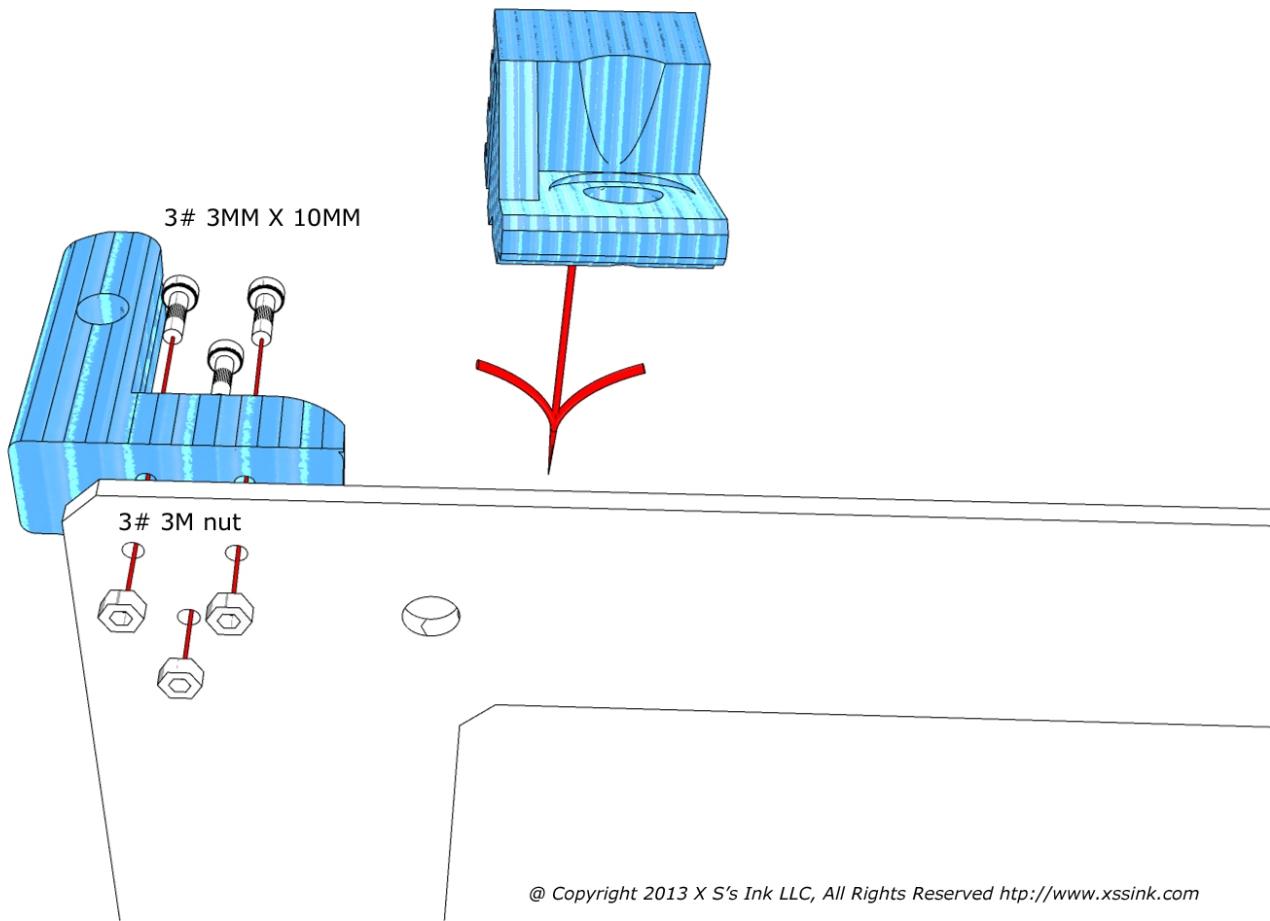
365-370mm smooth rod

Motor To Backsplash



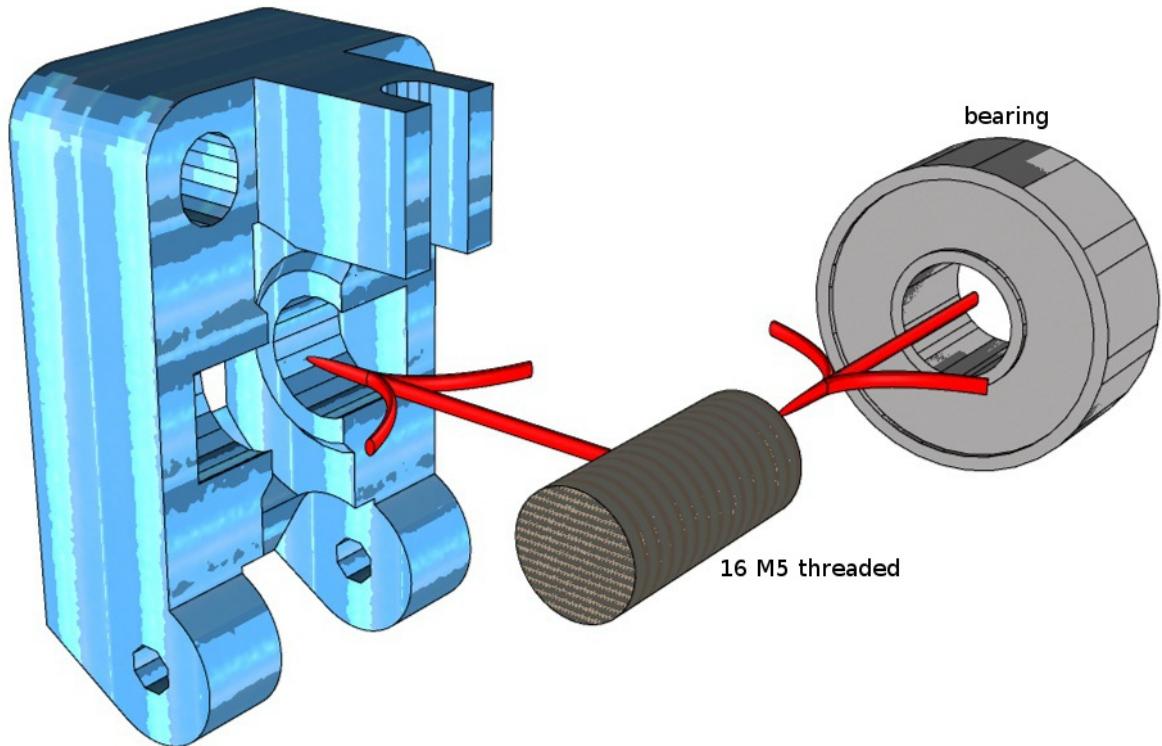
@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

Backsplash Top Assembly



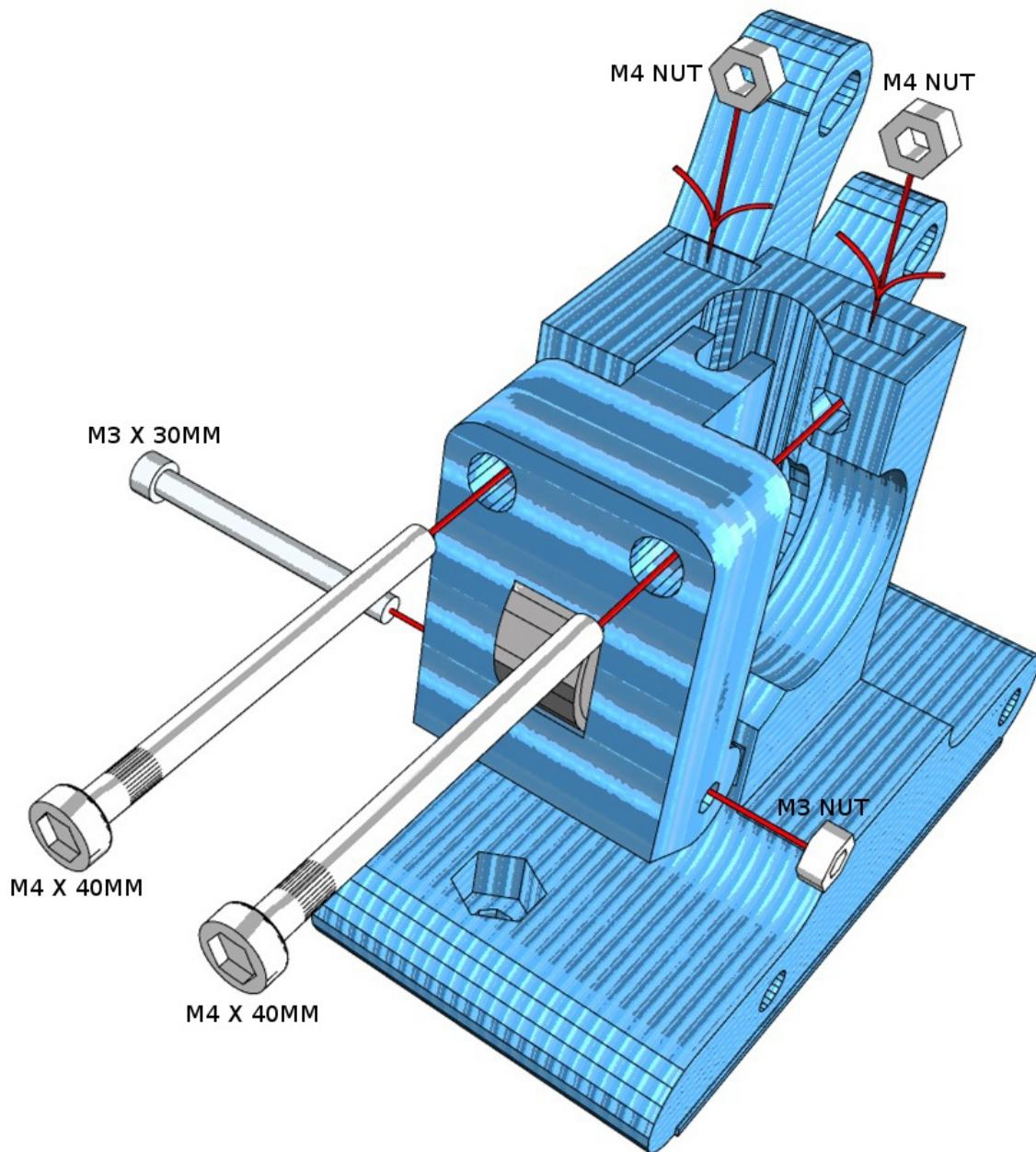
@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

ExtruderHinge



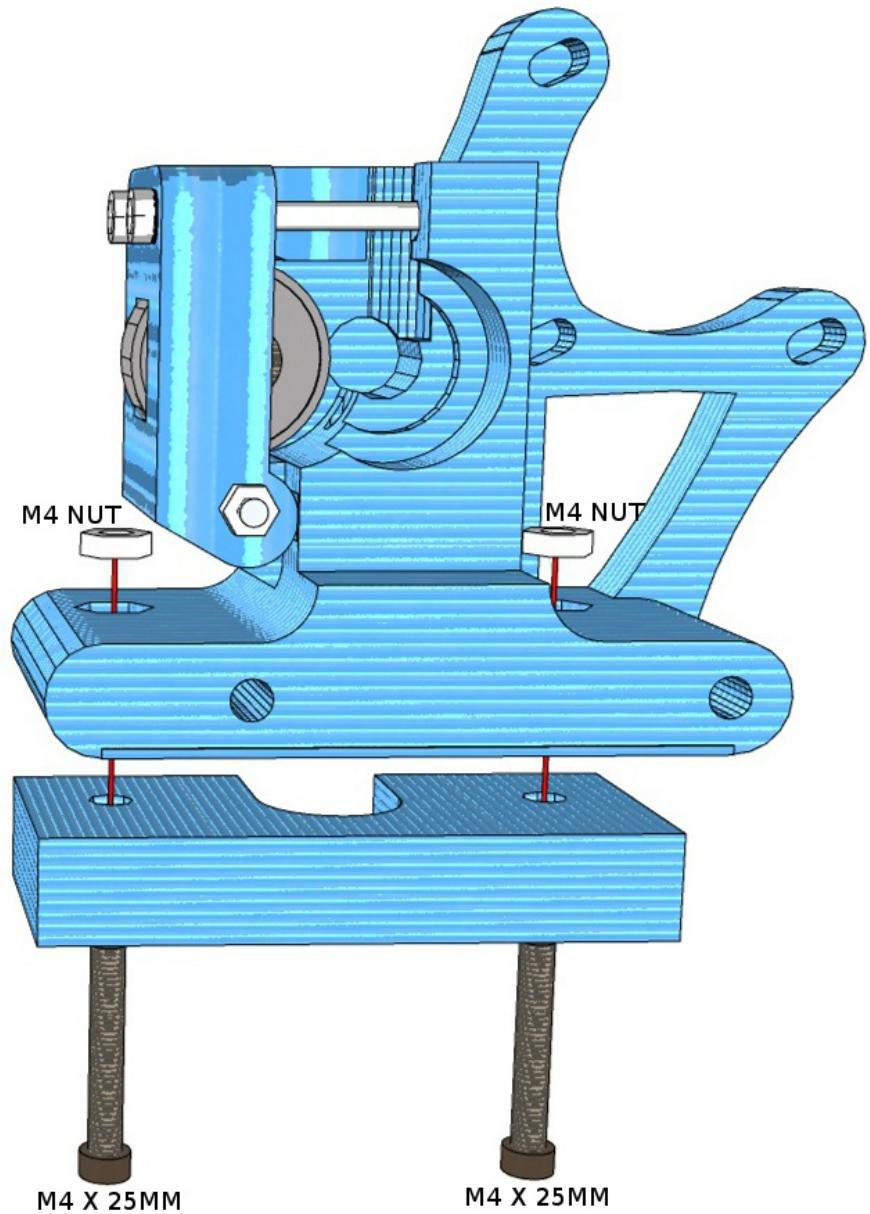
@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com/>

Extruder Hinge 2



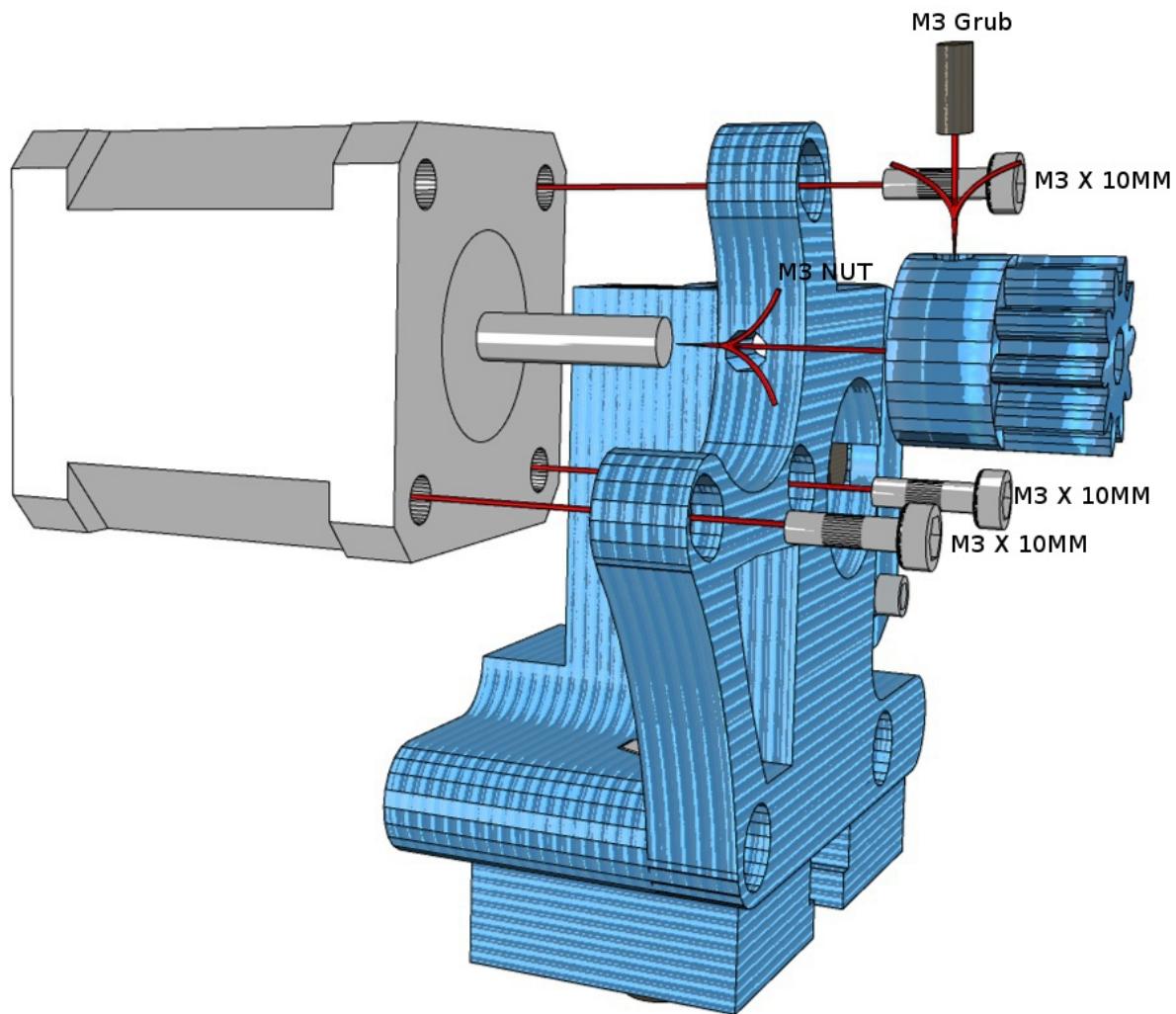
@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com/>

Extruder HotEnd Clamp



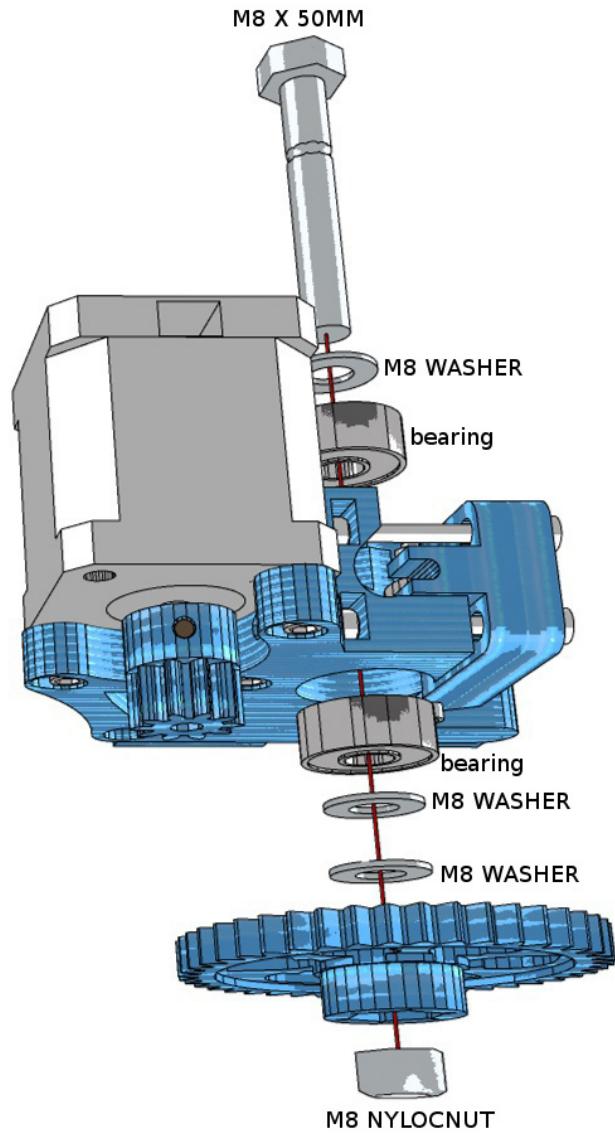
@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com/>

Extruder Motor

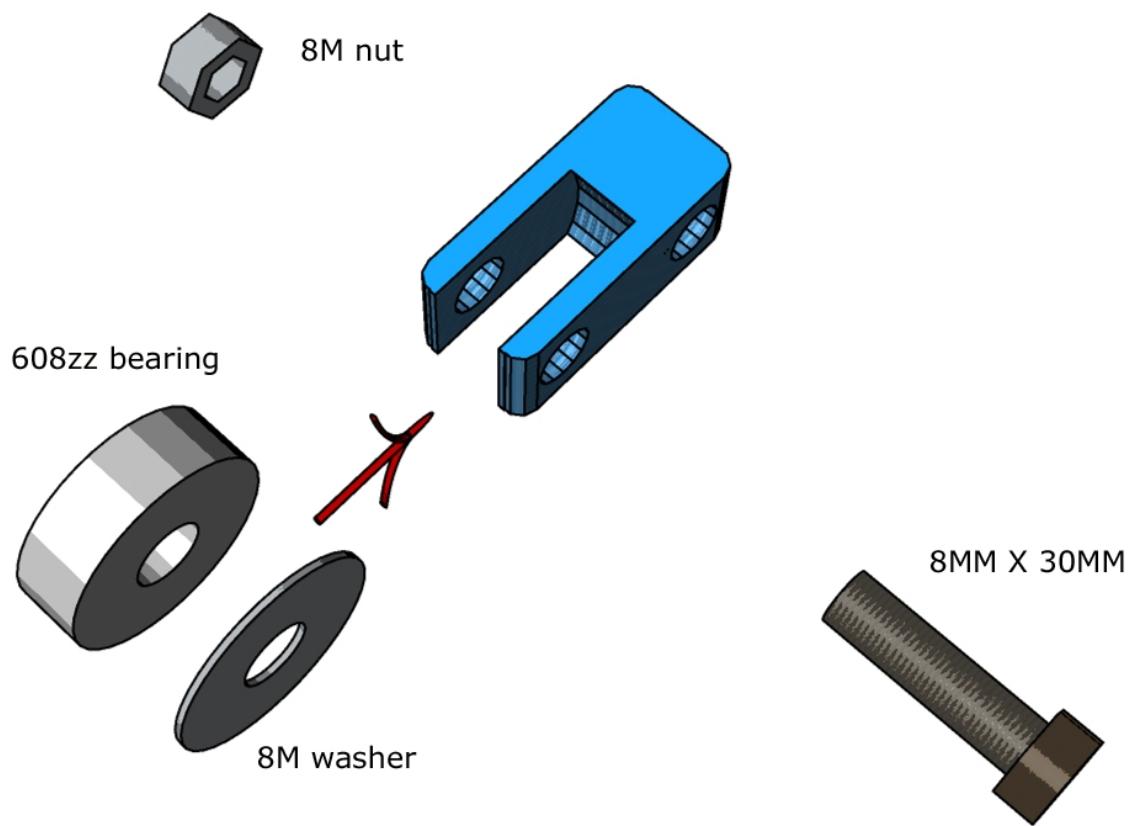


@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com/>

Extruder hobbed-bolt

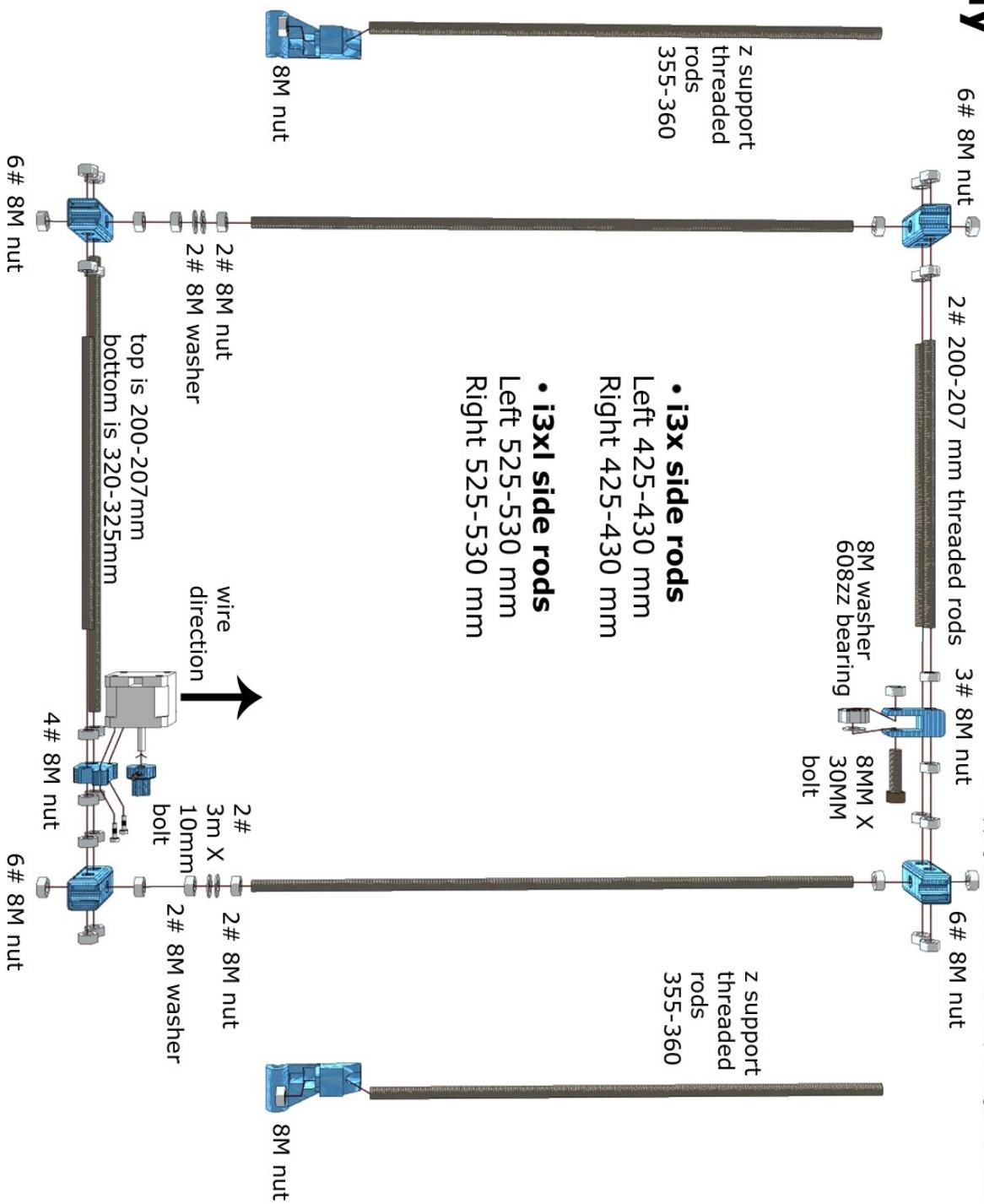


Y Bearing Guide



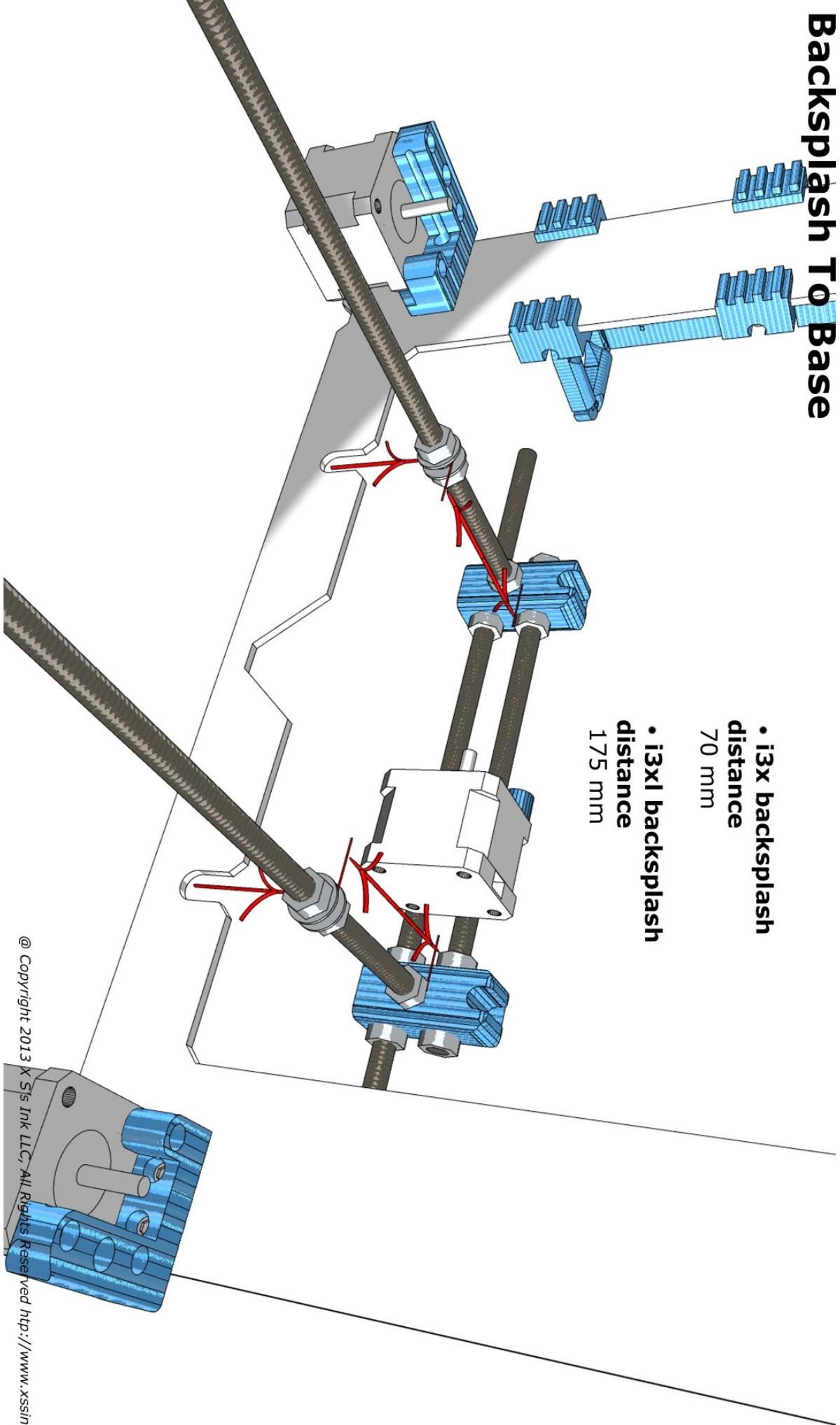
Base Assembly

© Copyright 2013 XSSink LLC, All Rights Reserved <http://www.xssink.com>

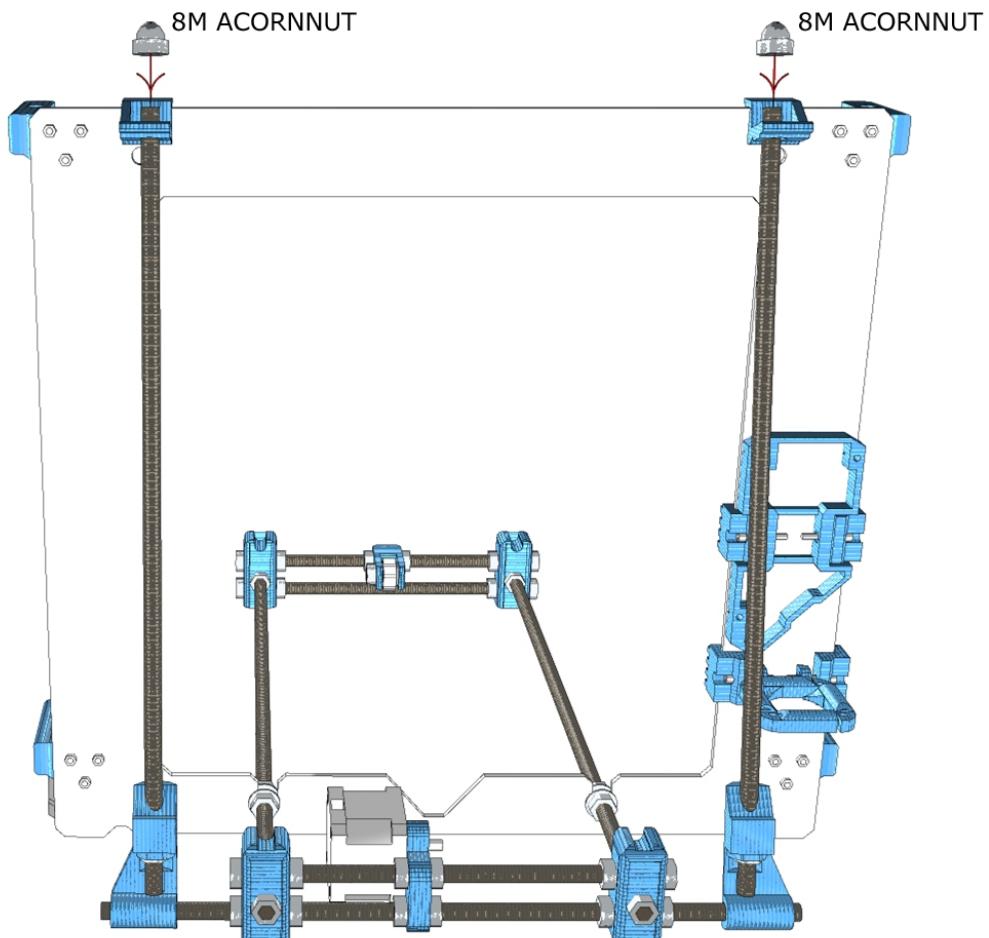


Backsplash To Base

- i3x backsplash distance
70 mm
- i3xl backsplash distance
175 mm



Z Support

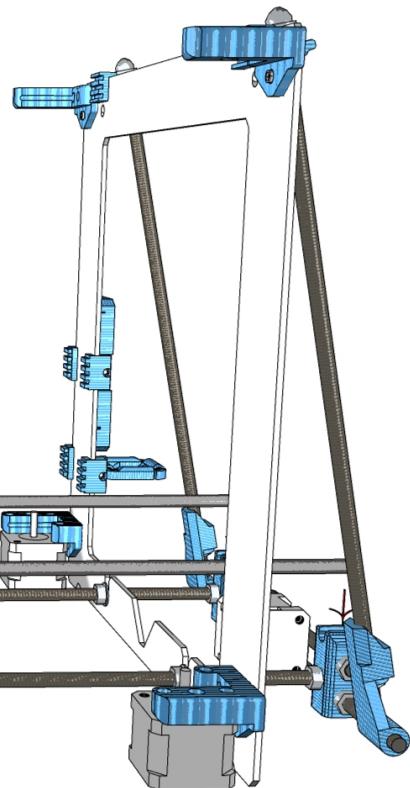
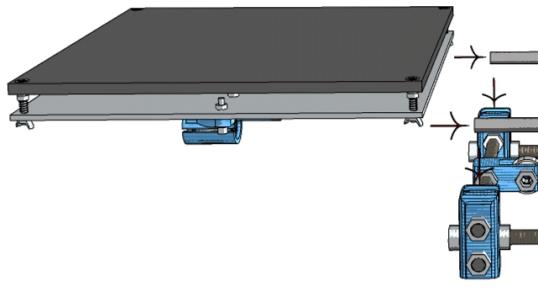


@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

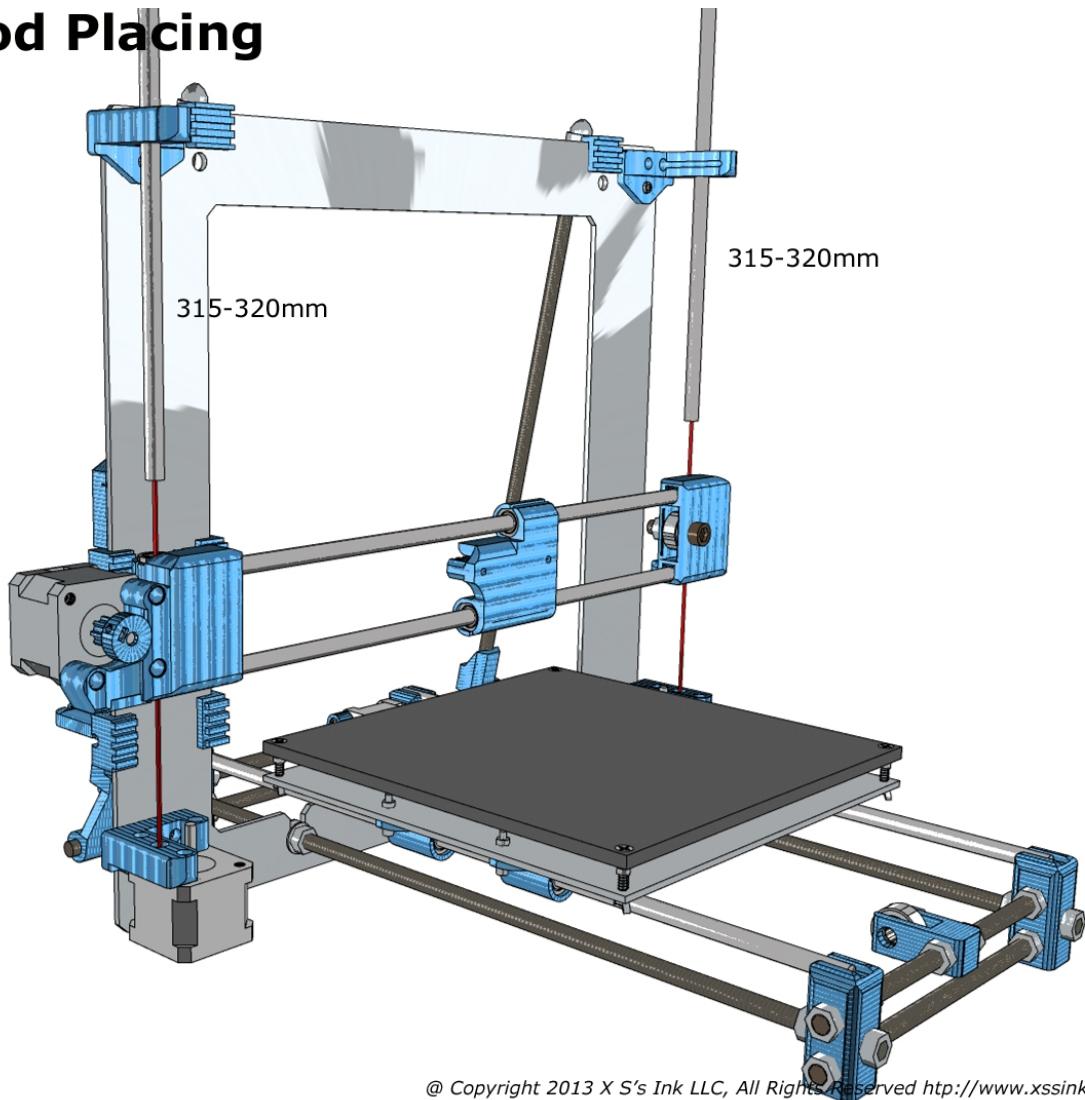
Bed To Base

- **i3x side rods**
Left 400-405 mm
Right 400-405 mm

- **i3xI side rods**
Left 500-505 mm
Right 500-505 mm

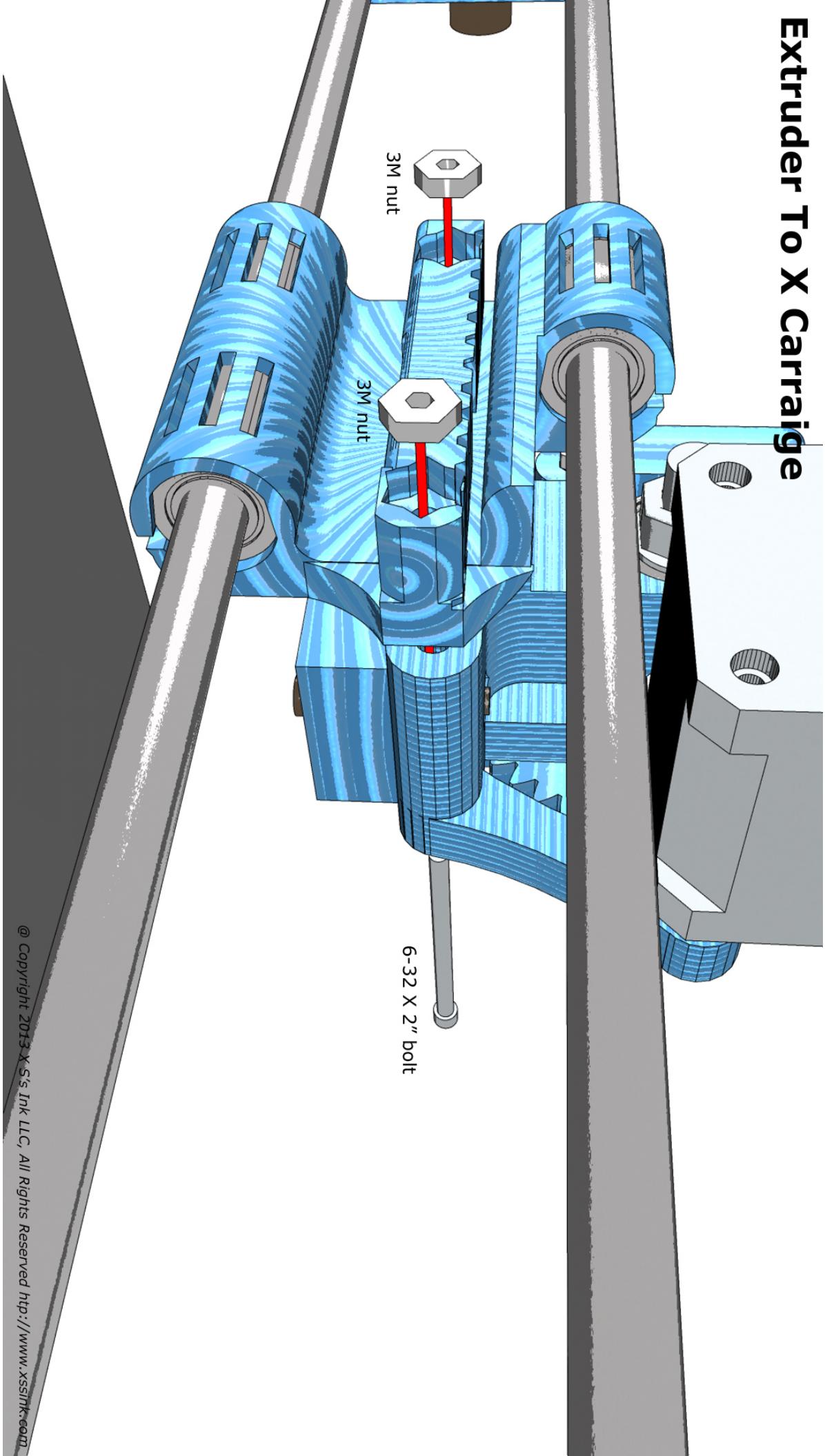


Z Rod Placing

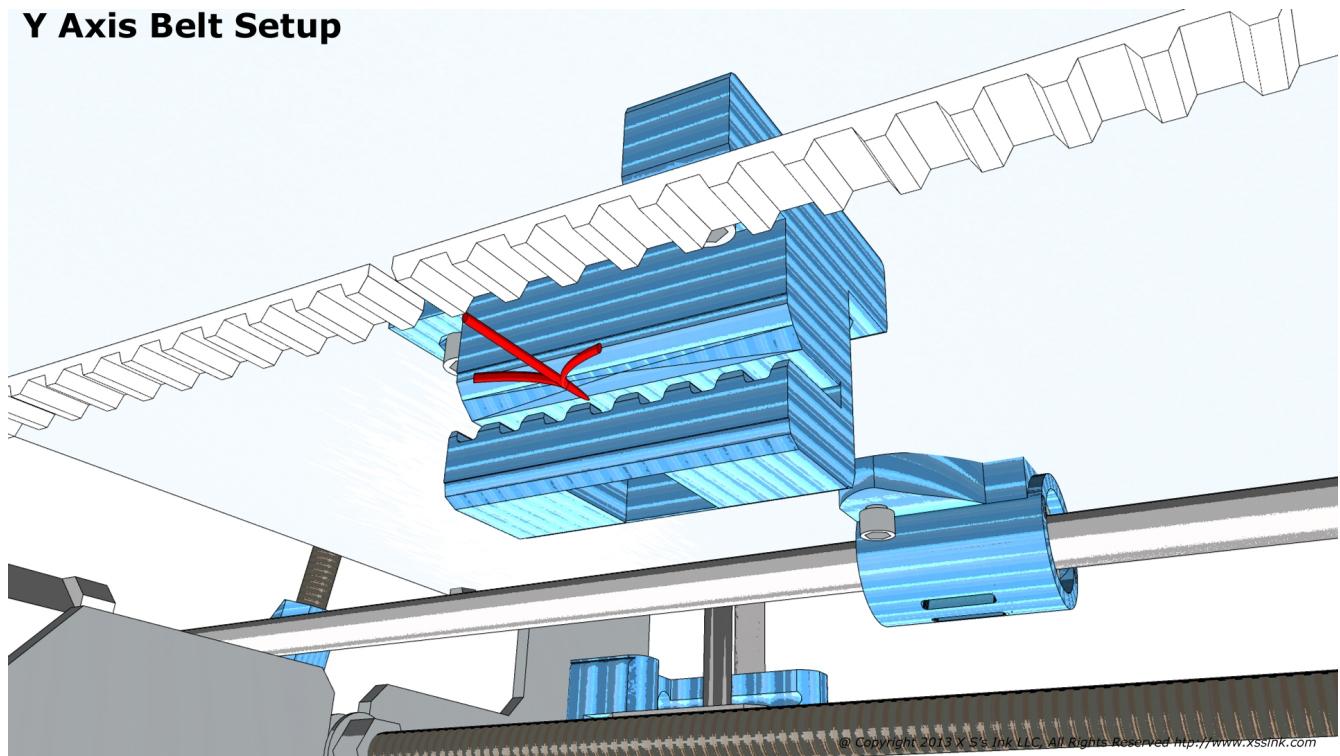


@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

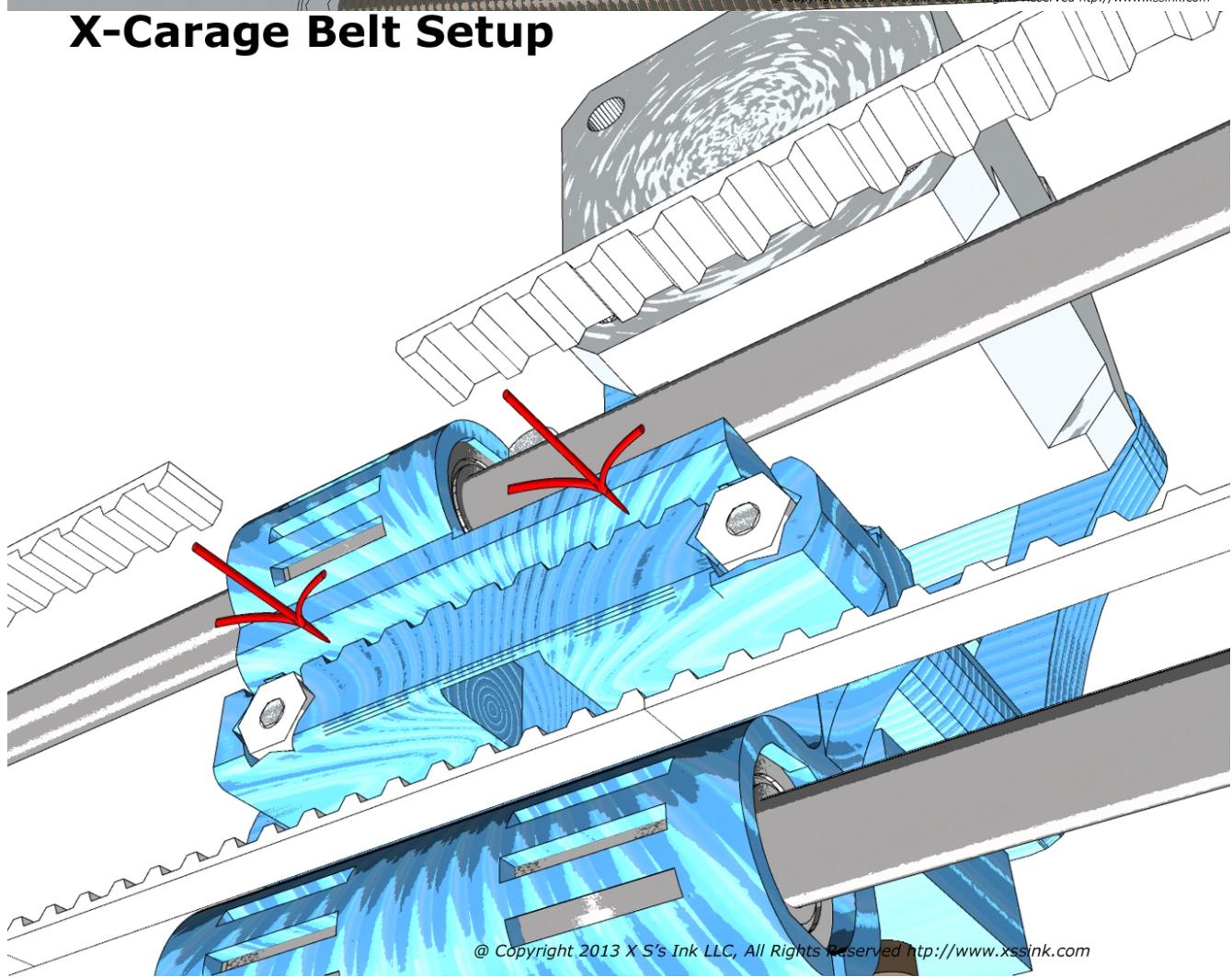
Extruder To X Carriage



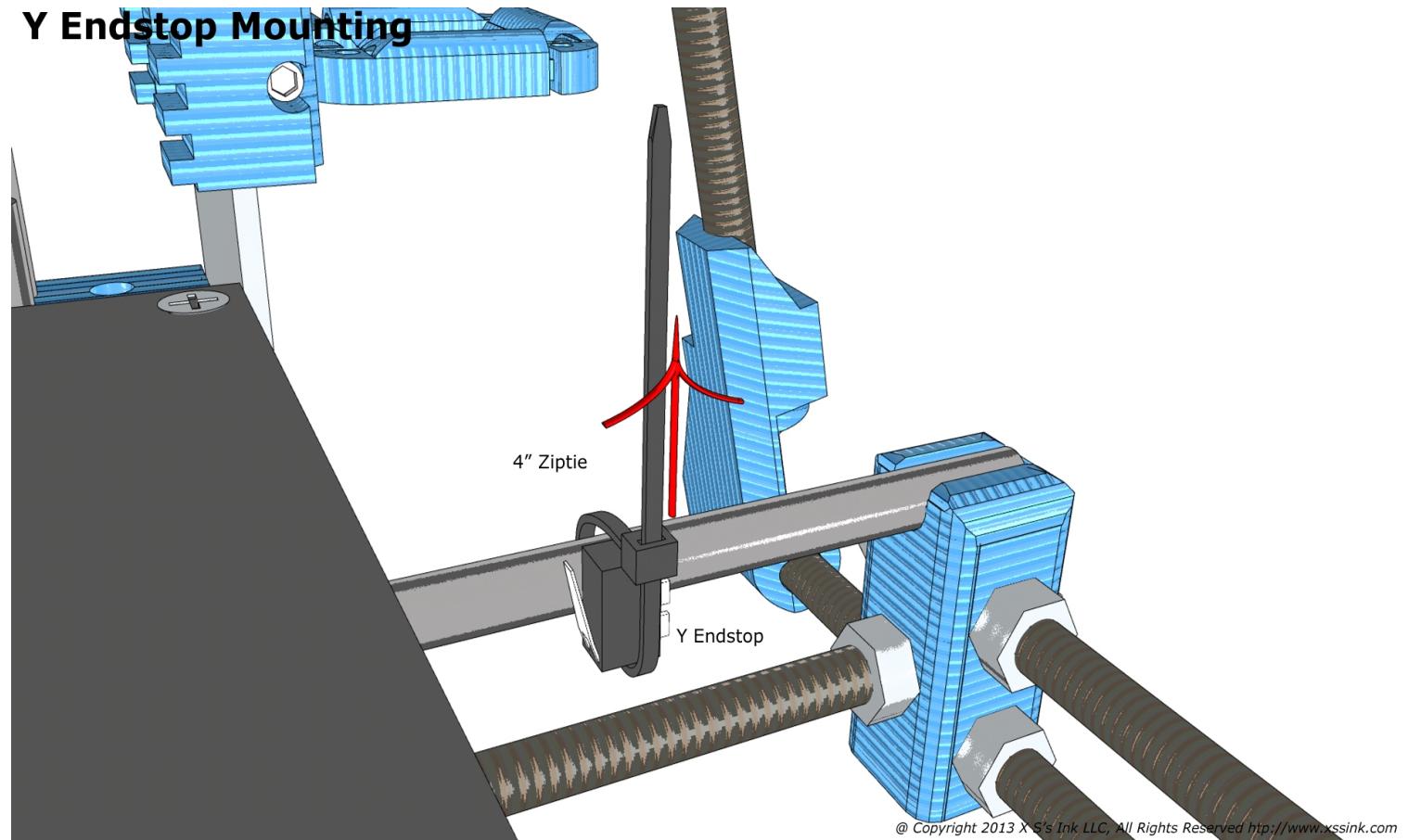
Y Axis Belt Setup



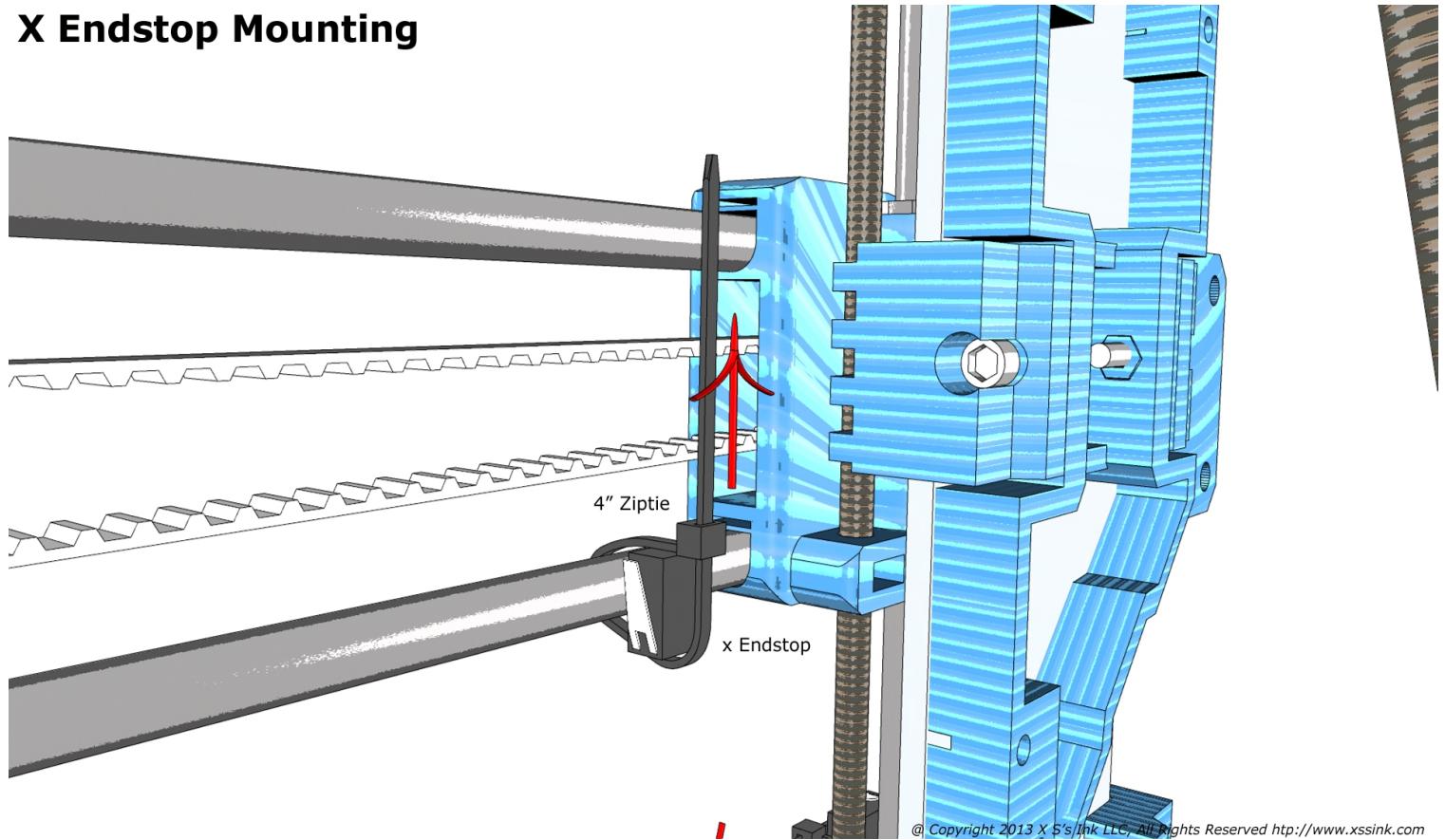
X-Carage Belt Setup



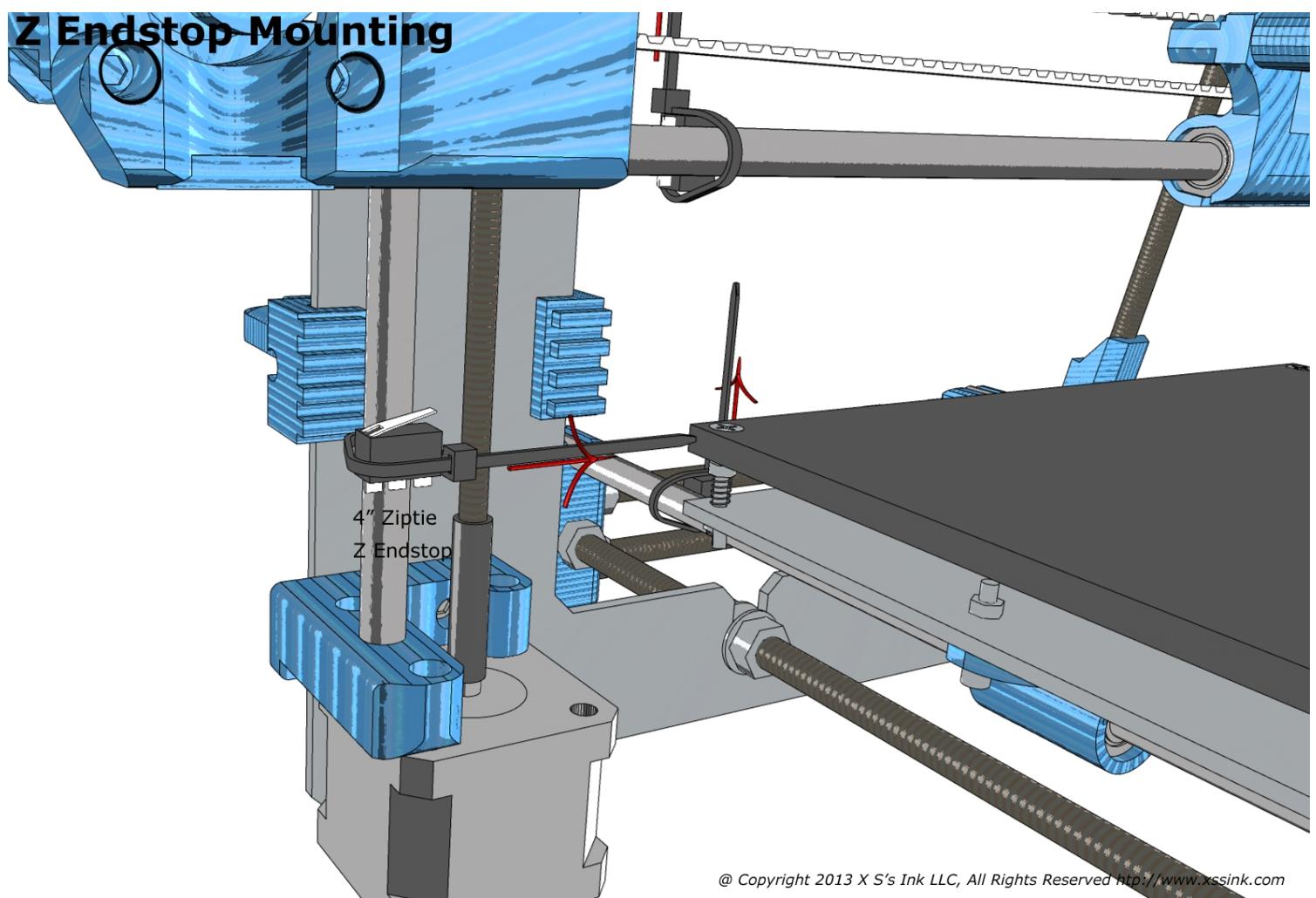
Y Endstop Mounting



X Endstop Mounting

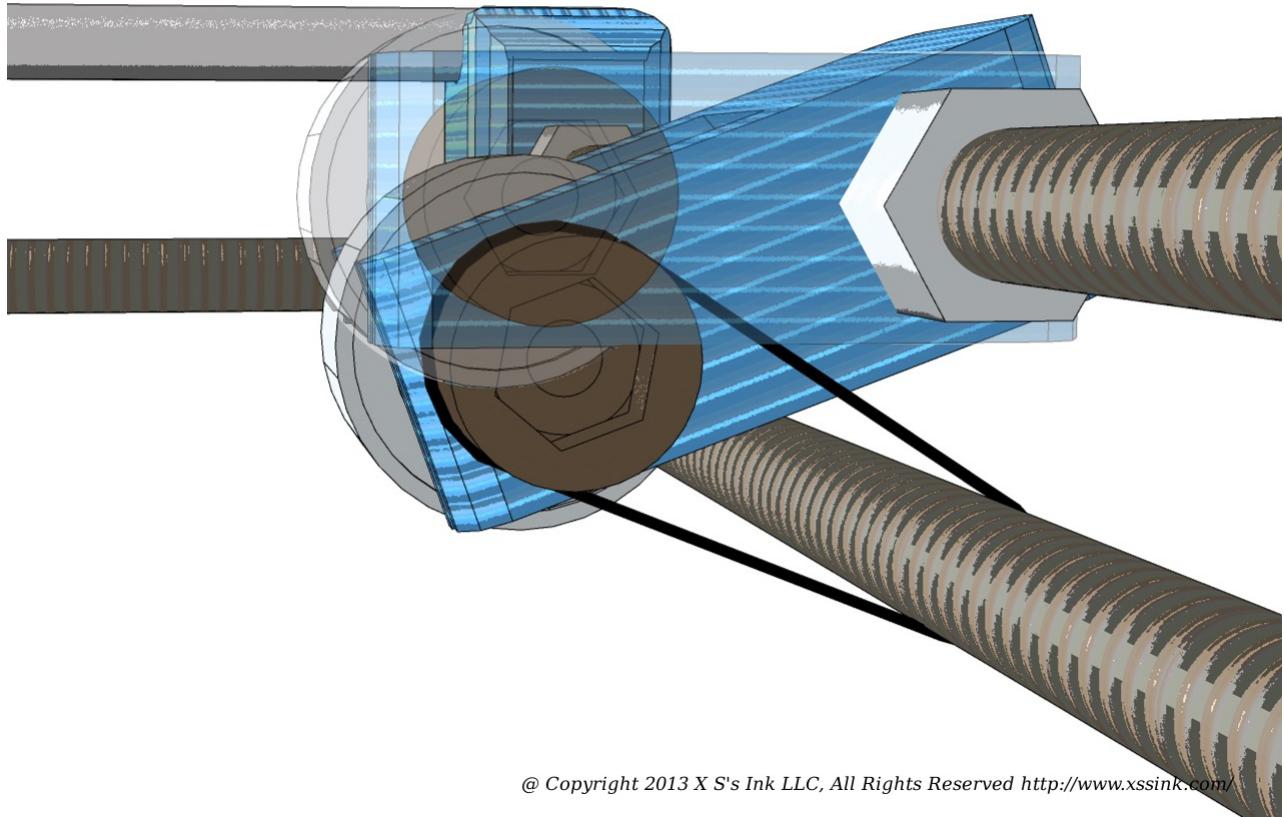


Z Endstop Mounting



@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com>

belt tightening



@ Copyright 2013 X S's Ink LLC, All Rights Reserved <http://www.xssink.com/>

I3x BOM

Fasteners

Nuts:

40 M3 Hex
4 M4 Hex
2 M5 Hex
41 M8 Hex
1 M8 Nyloc
2 M8 Acorn,
10 #6-32 Hex
4 #6-32 Wing

Washers:

13 M3 Washer
11 M8 washer

Bolts:

3 M3×8 Grub
11 M3×16 Socket
30 M3X10 Socket
15 M3×20 Socket
1 M3×30 Socket
2 M4×25 Socket
2 M4×40 Socket
2 M8×30 Socket
1 M8×50 Hobbed Bolt
4 #6-32 x 1 Flat
2 #6-32 x 2 Flat

8mm threaded:

2X 430mm
2X 350mm
1X 325mm
3X 205mm
1X 15-18mm

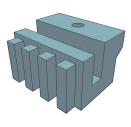
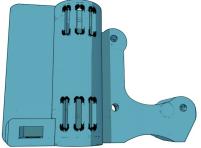
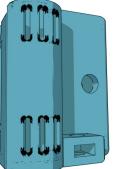
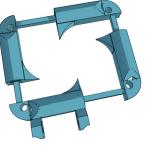
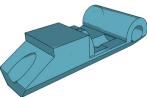
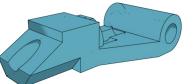
5mm threaded:

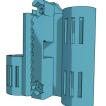
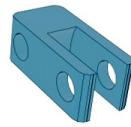
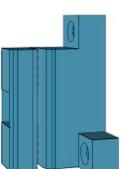
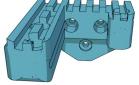
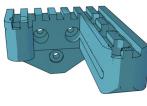
2X 245mm

8mm smooth:

2X 405mm
2X 370mm
2X 320mm

Printed Parts

 1 Big_Gear	 1 Electronics_Mount	 4 Electronics_Clamp
 1 X_Motor_End	 1 X_Idler_End	 1 Fan_Shroud
 1 Small_Gear	 1 Greg's_Wade-Body	 1 Greg's_Hinge
 1 Jhead_Groovemount	 2 Pulley	 1 R_Support_Upper
 1 L_Support_Upper	 1 R_Support_Lower	 1 L_Support_Lower

		
1 X_Carriage	4 Y_Axis_Corner	1 Y_Bearing
		
1 Y_Belt_Holder	3 Y_Bushing	1 Y_Motor_Mount
		 
1 Z_Axis_L_Bottom_Z_Axis_Top_L	1 Z_Axis_R_Bottom_Z_Axis_Top_R	1 Z_Axis_Top_L 1 Z_Axis_Top_R

Wires

1X Extruder 23in

1X Z-Right 20in

1X Z-Left 8in

1X X 15in

1X Y 19in

1X Y-endstop 16in

1X X-endstop 9in

1X Z-endstop 7in

Thermistors

1X Hotend 19.in

Heaters

1X Ceramic heater 19.in

Electronics

1X Motherboard

1X Fan

4X Stepper drivers

1X Hotend

Bed

1X Acrylic Top Plate

1X Bottom Steel Plate

Belts

1X 740mm (Y axis)

1X 815mm (X axis)

Motors

4X 25 N*cm (Short)

1X 50 N*cm (Tall)

Bearings

5X 608ZZ Roller Bearings

10X LM8UU Linear Bearings

Misc.

15X 4" Zipties

8X 8" Zipties

1X i3x Backplate

4X 11mm 3mmID Springs

2X 30mm 1/5" ID Rubber Tubing

I3xl BOM

Fasteners

Nuts:

42 M3 Hex
4 M4 Hex
2 M5 Hex
41 M8 Hex
1 M8 Nyloc
2 M8 Acorn,
10 #6-32 Hex
4 #6-32 Wing

Washers:

13 M3 Washer
11 M8 washer

Bolts:

3 M3×8 Grub
13 M3×16 Socket
30 M3X10 Socket
15 M3×20 Socket
1 M3×30 Socket
2 M4×25 Socket
2 M4×40 Socket
2 M8×30 Socket
1 M8×50 Hobbed Bolt
4 #6-32 x 1 Flat
2 #6-32 x 2 Flat

8mm threaded:

2X 530mm
2X 375mm
1X 325mm
3X 205mm
1X 15-18mm

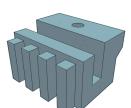
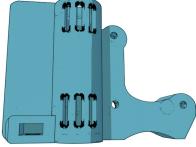
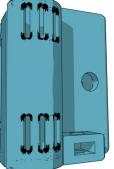
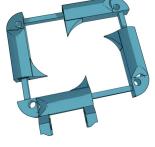
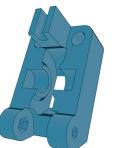
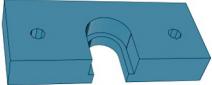
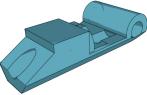
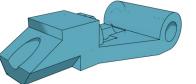
5mm threaded:

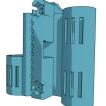
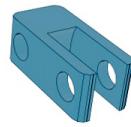
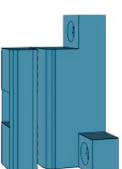
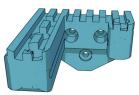
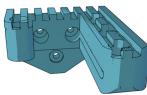
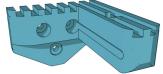
2X 245mm

8mm smooth:

2X 505mm
2X 370mm
2X 320mm

Printed Parts

 1 Big_Gear	 1 Electronics_Mount	 4 Electronics_Clamp
 1 X_Motor_End	 1 X_Idler_End	 1 Fan_Shroud
 1 Small_Gear	 1 Greg's_Wade-Body	 1 Greg's_Hinge
 1 Jhead_Groovemount	 2 Pulley	 1 R_Support_Upper
 1 L_Support_Upper	 1 R_Support_Lower	 1 L_Support_Lower

		
1 X_Carriage	4 Y_Axis_Corner	1 Y_Bearing
		
1 Y_Belt_Holder	4 Y_Bushing	1 Y_Motor_Mount
		 
1 Z_Axis_L_Bottom_Z_Axis_Top_L	1 Z_Axis_R_Bottom_Z_Axis_Top_R	1 Z_Axis_Top_L 1 Z_Axis_Top_R

Wires

1X Extruder 23in

1X Z-Right 20in

1X Z-Left 8in

1X X 15in

1X Y 19in

1X Y-endstop 16in

1X X-endstop 9in

1X Z-endstop 7in

Thermistors

1X Hotend 19.in

Heaters

1X Ceramic heater 19.in

Electronics

1X Motherboard

1X Fan

4X Stepper drivers

1X Hotend

Bed

1X Acrylic Top Plate

1X Bottom Steel Plate

Belts

1X 820mm (Y axis)

1X 815mm (X axis)

Motors

4X 25 N*cm (Short)

1X 50 N*cm (Tall)

Bearings

5X 608ZZ Roller Bearings

11X LM8UU Linear Bearings

Misc.

15X 4" Zipties

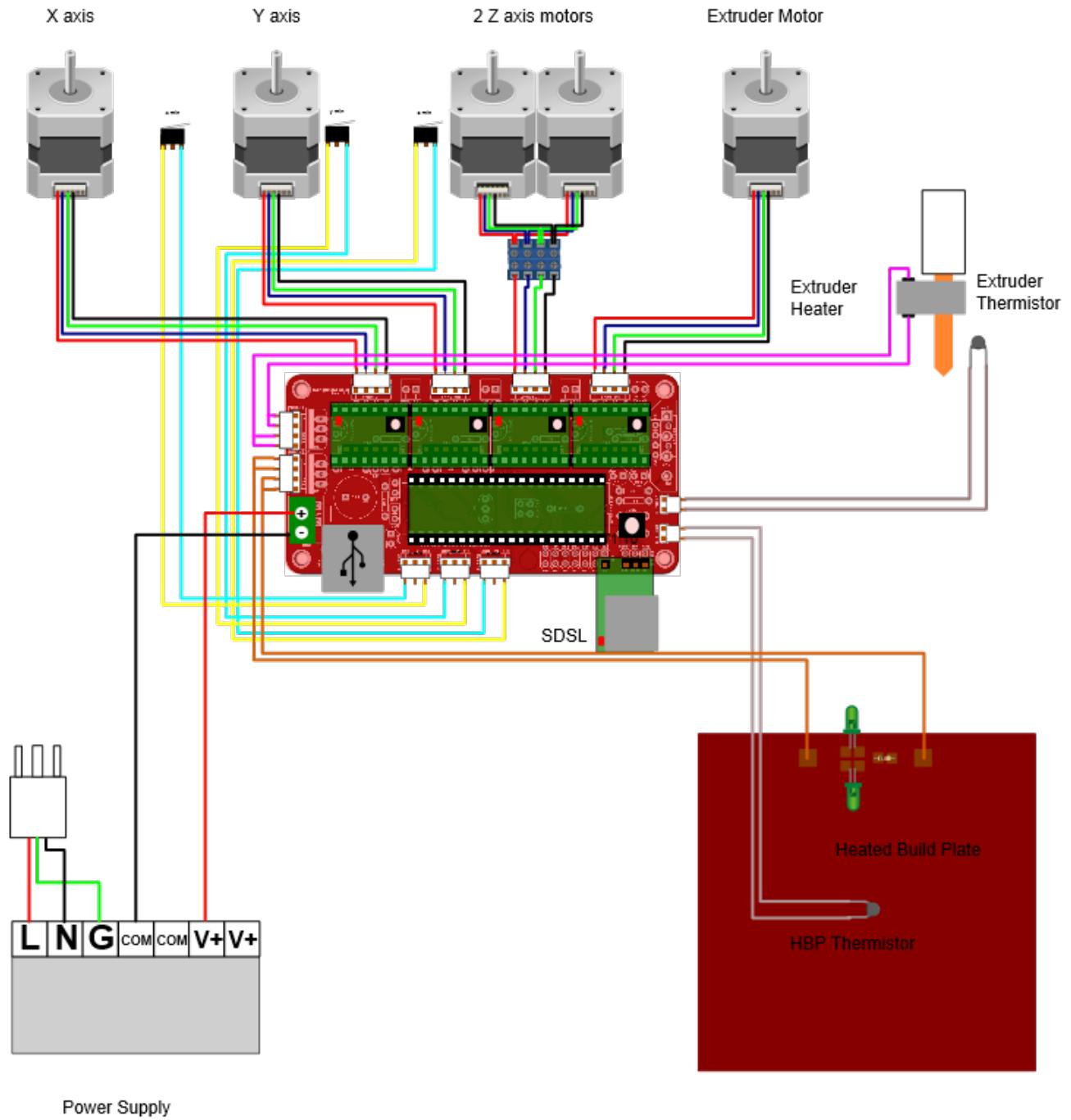
8X 8" Zipties

1X i3x Backplate

4X 11mm 3mmID Springs

2X 30mm 1/5" ID Rubber Tubing

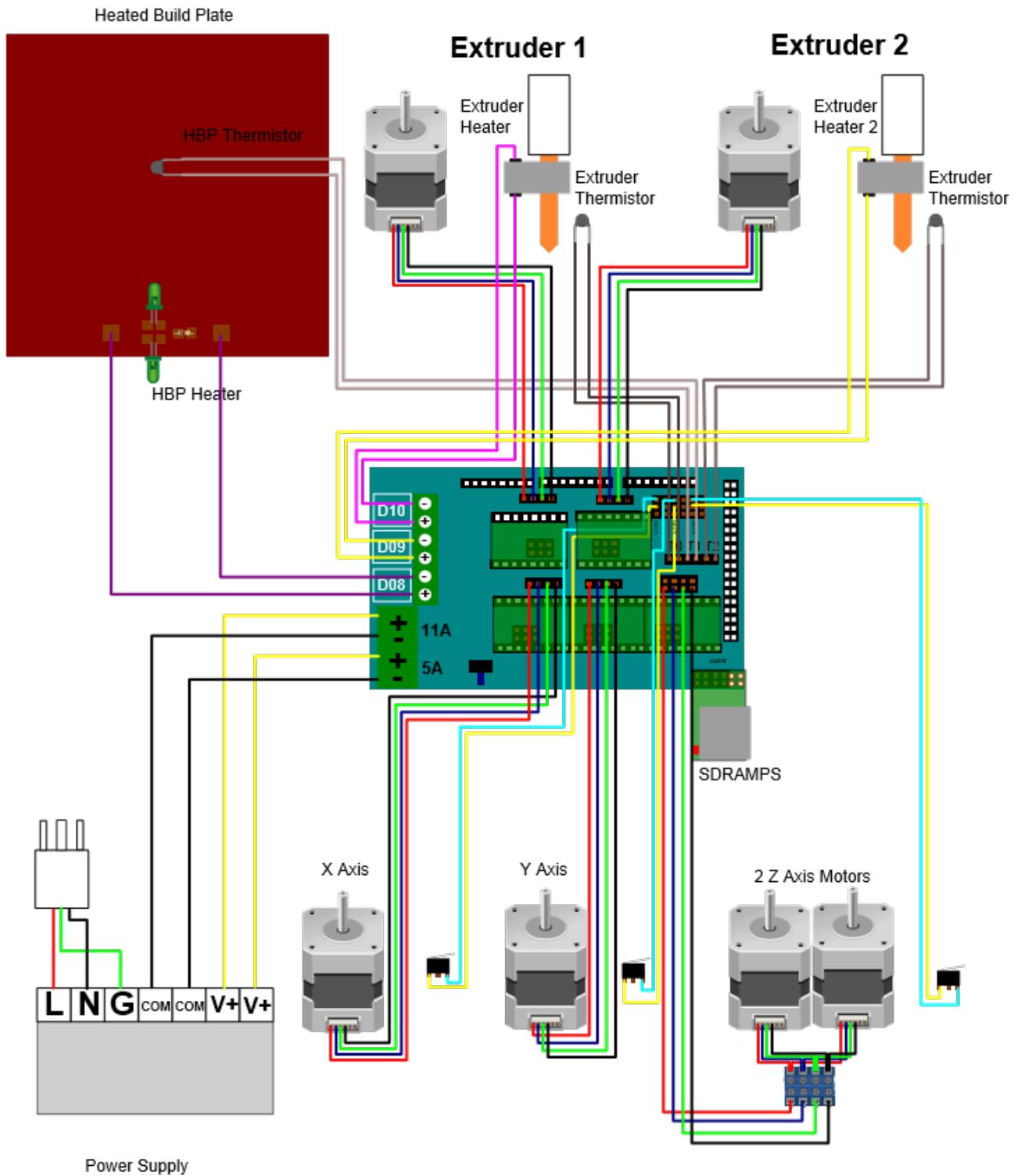
Sanguinololu 1.2 Wiring Schematic



Power Supply

Created by Neil Underwood 5/28/2011

RepRap Arduino Mega Pololu Shield 1.4



Created by Nell Underwood 5/28/2011