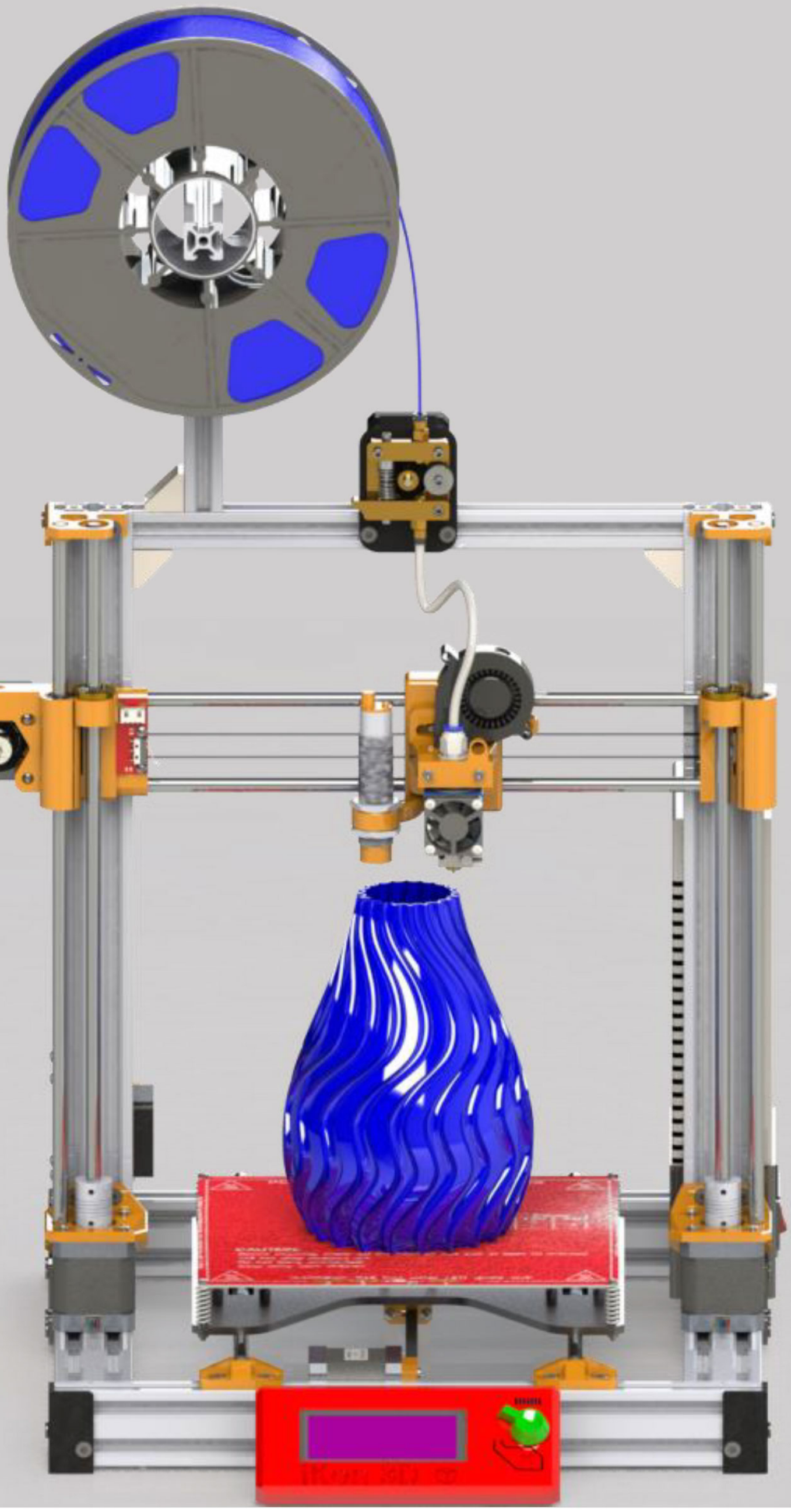
MOST ELECTRONICS

MANUAL FOR ASSEMBLY



CONTENTS

Tools required: 1

Package List 2

Y-Axis assembly 5

Components Needed for these steps: 5

STEP 1 5

Step 2 5

Step 3 5

then you need these Components for the following steps: 6

Step 4 6

Step 5 6

Step 6 6

..... 6

..... 6

Step 7 6

then Components Needed for these steps: 7

..... 7

Step 8 7

..... 7

Step 9 7

Step 10 7

Components Needed for these steps: 8

Step 11 8

Step 12 8

Step 13 8

..... 8

Step 14 8

Step 15 8

Step 16 9

..... 9

Step 17 9

..... 9

Step 18 9

..... 9

X-Axis assembly 10

Components Needed for these steps 10

Step 1 10

.....10
Step 2.....10
Step 3.....10
.....10
Step 4.....10
.....10
Step 5.....10
.....11
Step 6.....11
.....11
Step 7.....11
.....11
Step 8.....11
.....11
Step 9.....11
.....11
Step 10.....11
.....11
Step 11.....11
Step 12.....11
.....12
Step 13.....12
.....12
Step 14.....12
.....12
Step 15.....12
Step 16.....12
Step 17.....12
Extruder-Axis assembly.....14
Components Needed for these steps 14
.....14
Step 1.....14
Step 2.....14
.....14
Step 3.....14
.....14
Step 4.....14

.....15

Step 5.....15

.....15

Step 6.....15

Z-Axis assembly.....16

Components Needed for these steps.....16

.....16

Step 1.....16

.....16

Step 2.....16

.....16

Step 3.....16

.....16

Step 4.....16

.....17

Step 5.....17

.....17

Step 6.....17

.....17

Step 7.....17

.....17

Step 8.....17

.....17

Step 9.....17

.....17

Step 10.....17

.....18

Step 11.....18

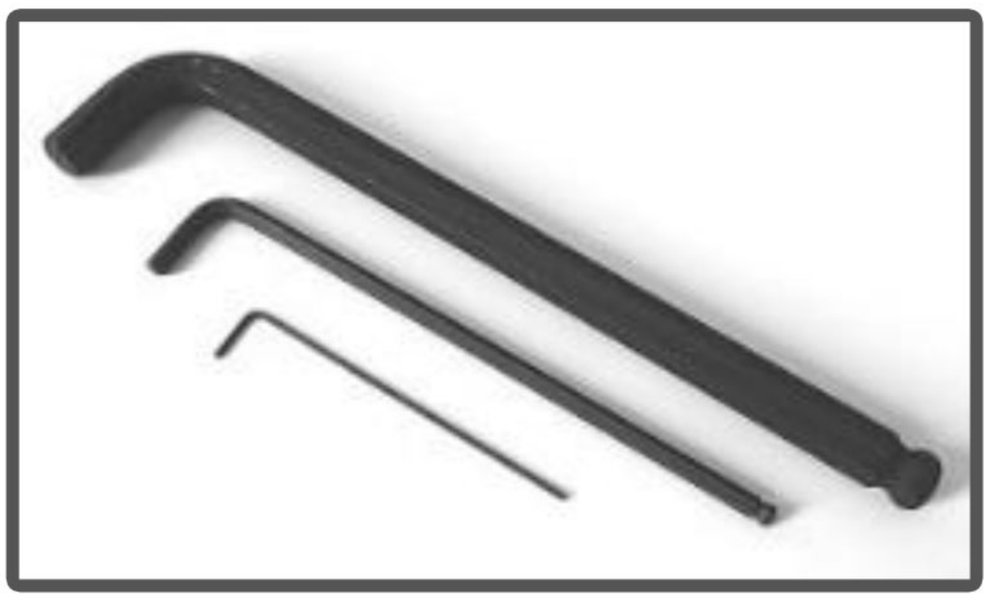
Z-Axis assembly to the frame.....19

Components Needed for these steps.....19

Step 1.....19

Step 2.....19

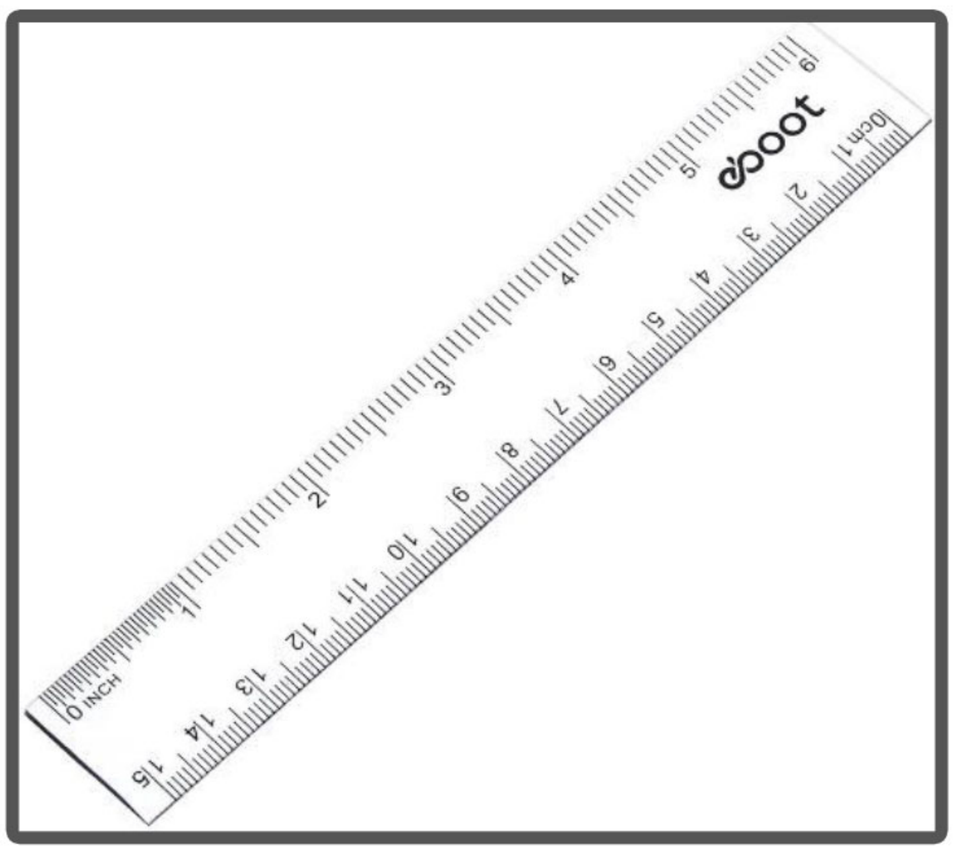
Tools needed :



Allen Key



Screw driver

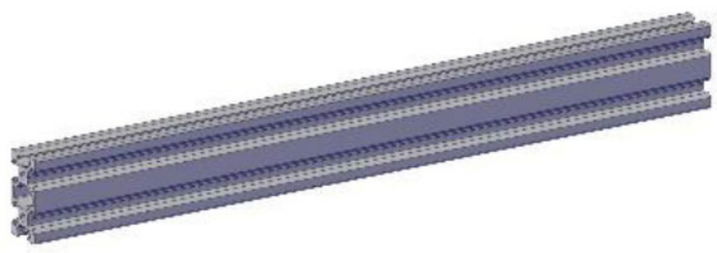
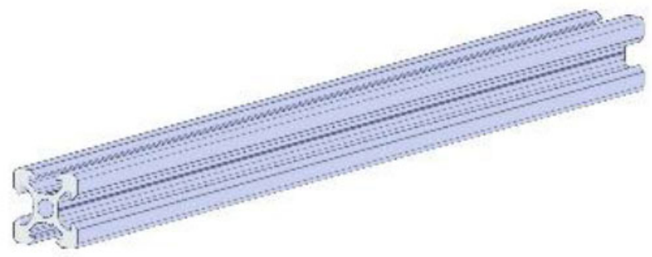
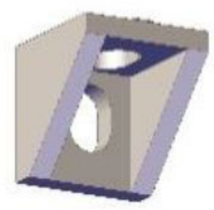
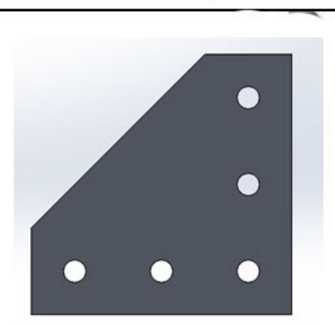
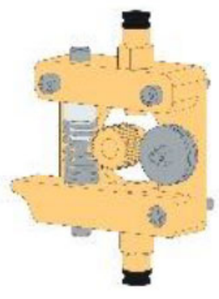
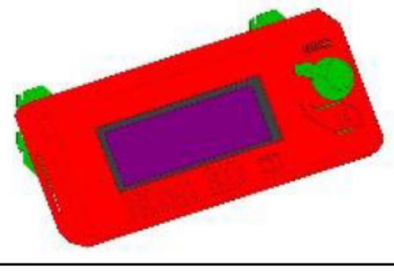


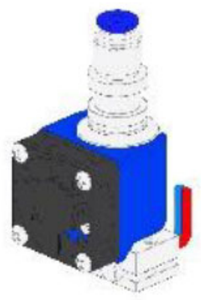
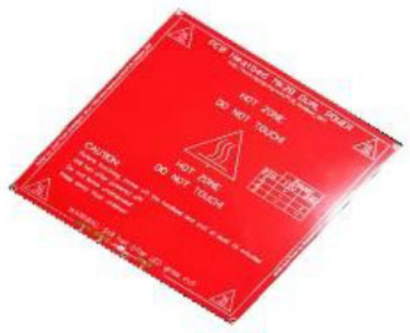
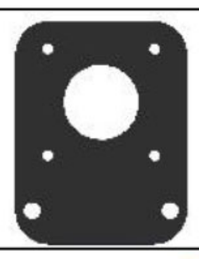
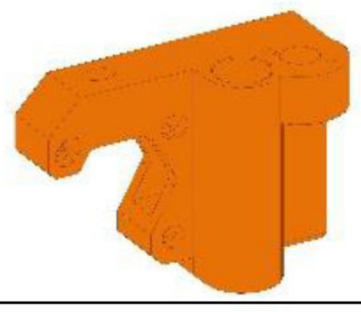
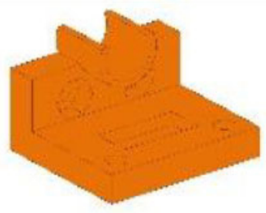
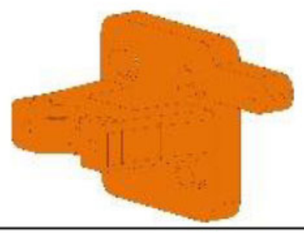
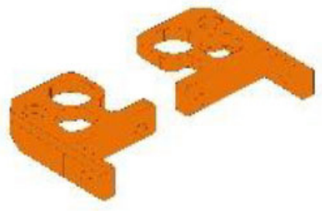
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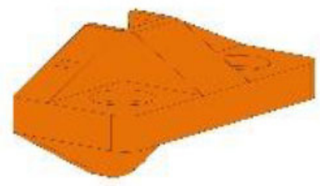
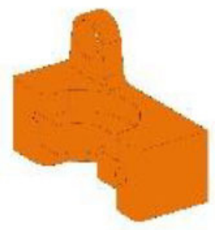
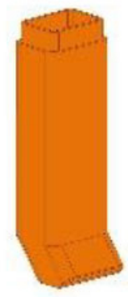
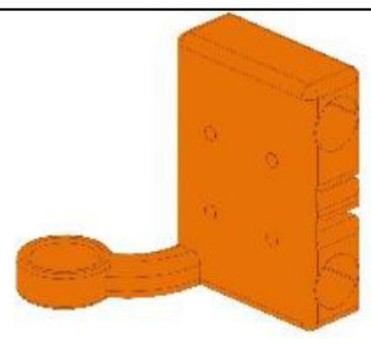


Pliers

Package list :

NAME	SIZE	PICTURE	QTY
ALU. PROFILE2040	2*370 mm 2*380 mm 2*360 mm		6
ALU. PROFILE2020	370 mm		1
CORNER	-		3
PROFILE COVER LEFT/RIGHT	-		4
SPRING	-		4
COUPLER	5MMX8MM		2
T-CONNECTOR	-		4
LEAD SCREW NUT	-		2
EXTRUDER KIT	-		1
NEMA 17 MOTOR	-		5
LCD KIT	-		1

LIMIT SWITCH	-		3
HOTEND	-		1
IDLER	-		2
HEATING BED	210MMX210MM		1
LM8UU	8MM		11
MOTOR HOLDER	-		1
X1	-		1
X2	-		1
Y1	-		4
Y2	-		1
X3	-		1
X4	-		1
Z1	-		1

Y3	-		
X5	-		
X6	-		
X7	-		
M5 SCREW	8MM		
M3 SCREW	20MM 10MM		
			
			
T-NUT			
LINEAR GUIDE 8MM	315 mm 365 mm 380 mm		6
LEAD SCREW	350MM		2

Y - Axis Assembly

COMPONENTS NEEDED FOR THESE STEPS:

Item	Quantity
Aluminum profile 370 mm	2
Aluminum profile 380 mm	2
Profile cover left	2
Profile cover right	2
M5x8	4

STEP 1

- Screw the M5x8 screw using 3mm hex driver screw Figure (1).

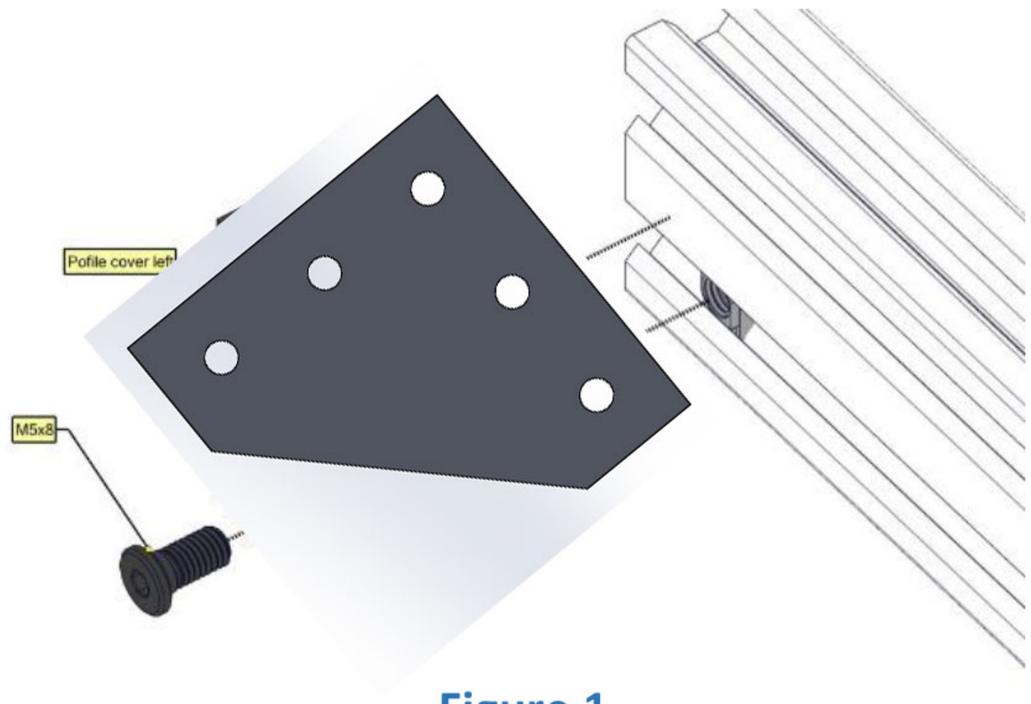


Figure 1

STEP 2

- Join the two-aluminum profile together as shown Figure (2).

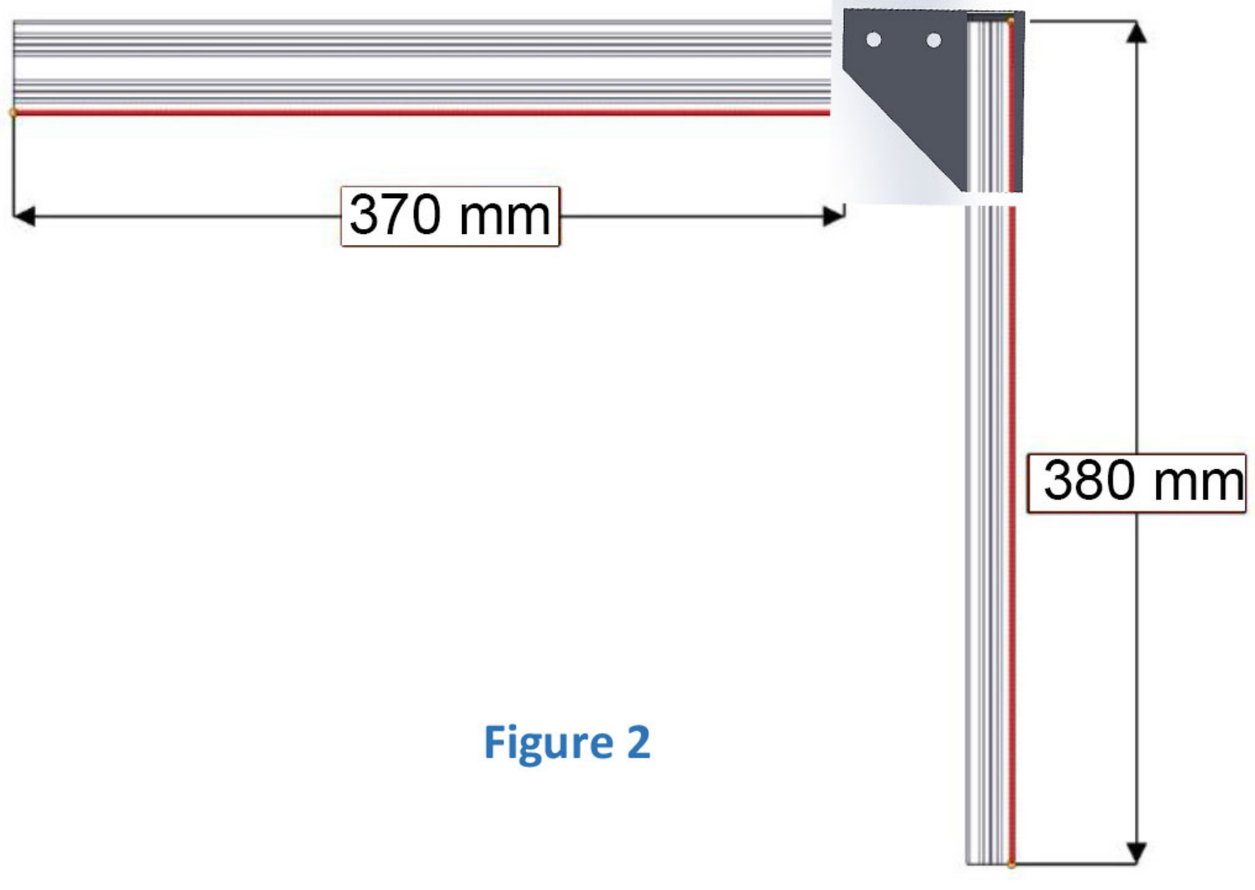


Figure 2

STEP 3

- Join the 2nd aluminum profile as shown Figure (3).
- Repeat this step to the rest of the 4 corners.

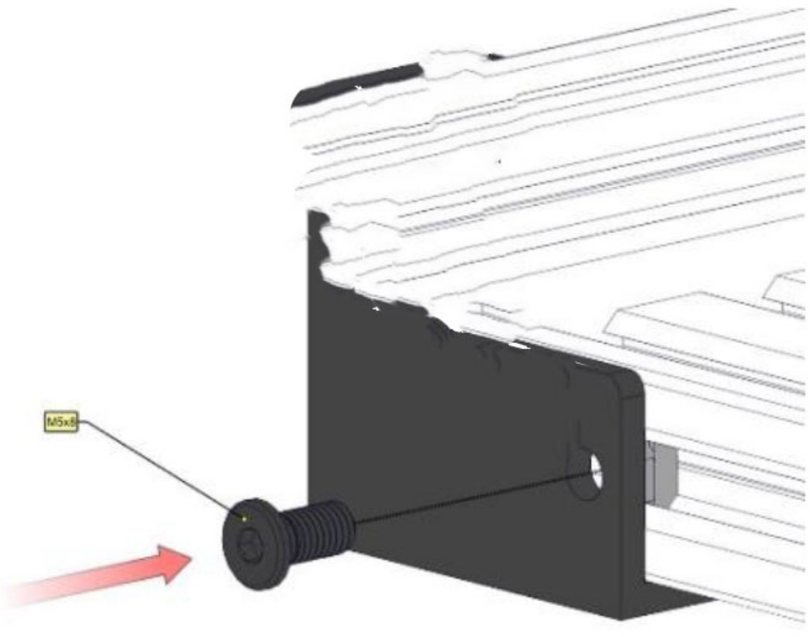


Figure 3

THEN YOU NEED THESE COMPONENTS FOR THE FOLLOWING STEPS:

Item	Quantity
Nema17	1
pulley	1
Idler	1
M3x10	2
M3x20	1
M5x8	4

STEP 4

- Join the X1 as shown Figure (4).
- Using M5x8

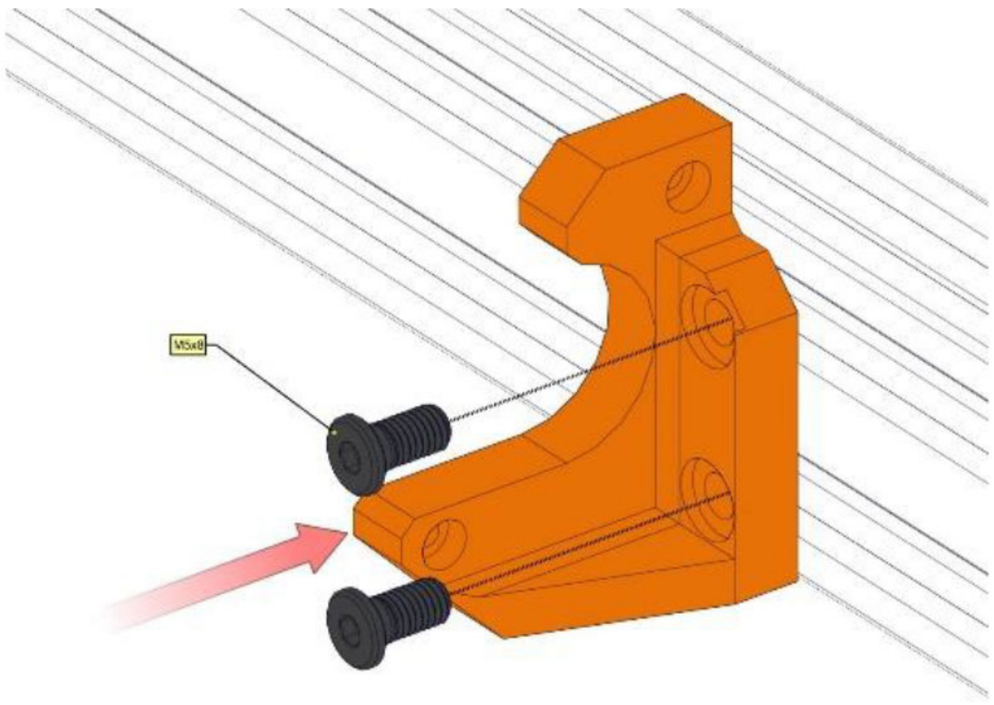


Figure 4

STEP 5

- Using M3x10 Join the motor Nema17 as shown Figure (5).
- Join the pulley

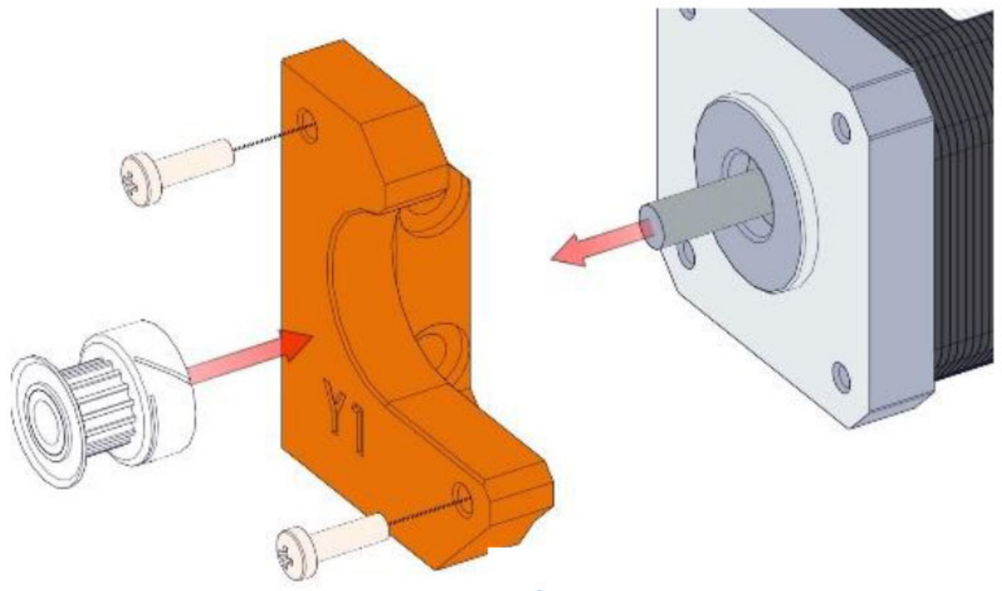


Figure 4

STEP 6

- Lock the pulley Figure (6).

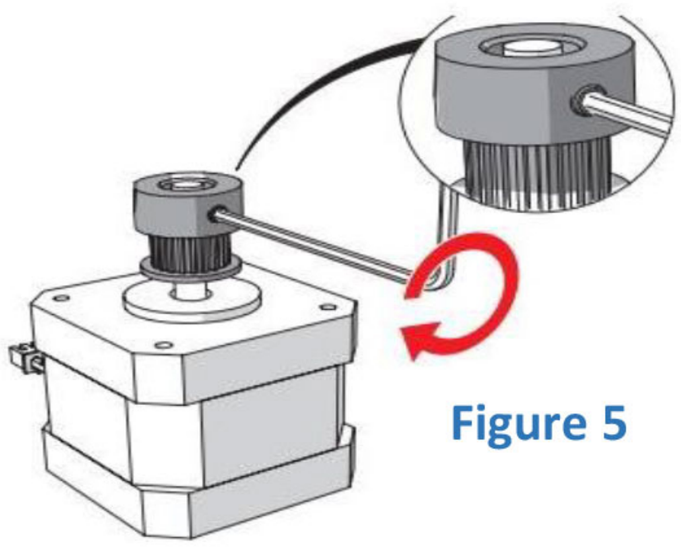


Figure 5

STEP 7

- Join the idler pulley using M3x20
- Join X2 using M5x8 as shown Figure(7).

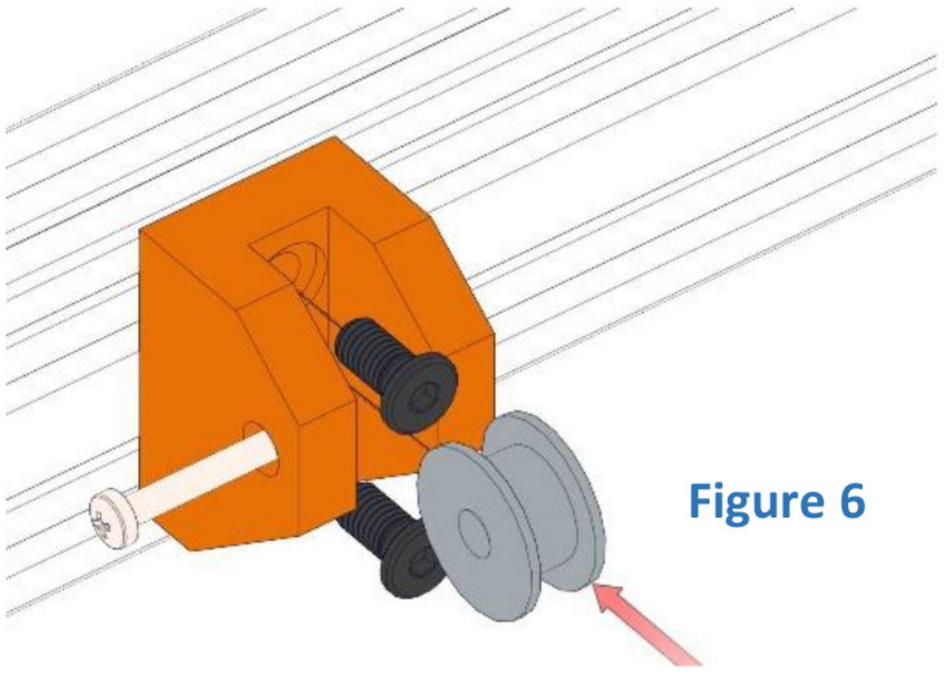


Figure 6

THEN COMPONENTS NEEDED FOR THESE STEPS:

Item	Quantity
Limit switch	1
M3x10	2
Guide 363mm	2
X3	1

STEP 8

- Using X3 and M3x10 screws.
- Join the limit switch as shown Figure (8).

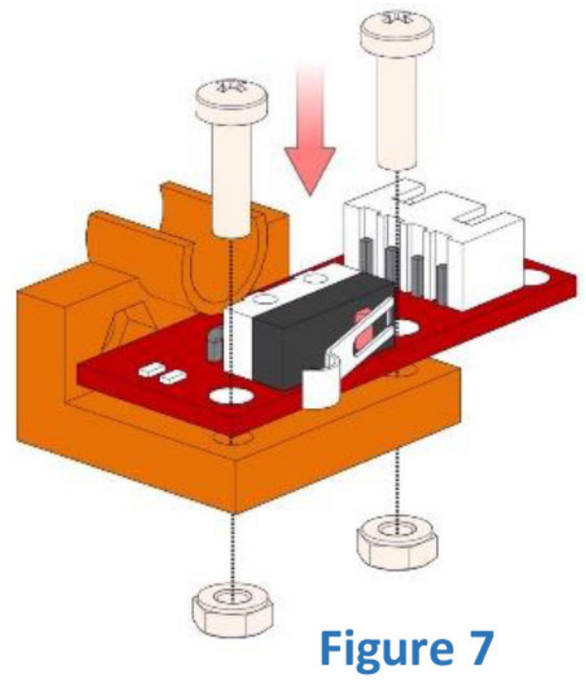


Figure 7

STEP 9

- Join the left guide to the pervious assembly (9).

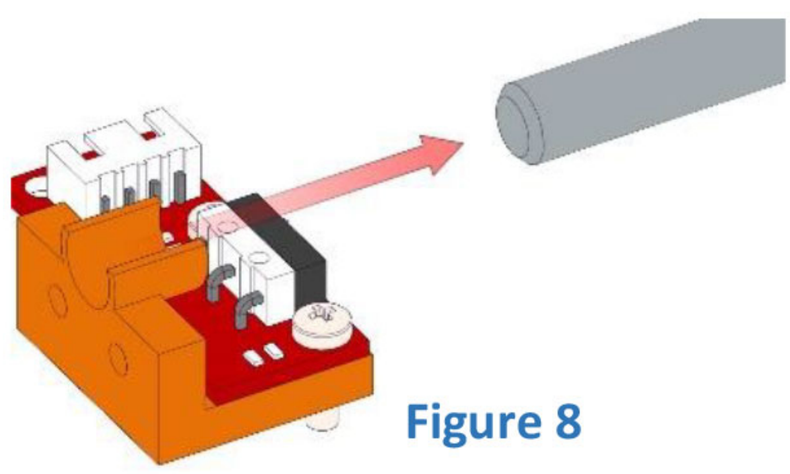


Figure 8

STEP 10

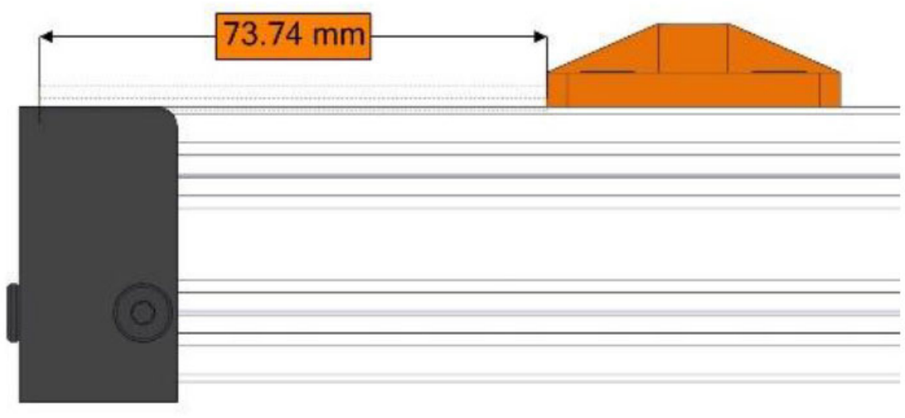


Figure 10

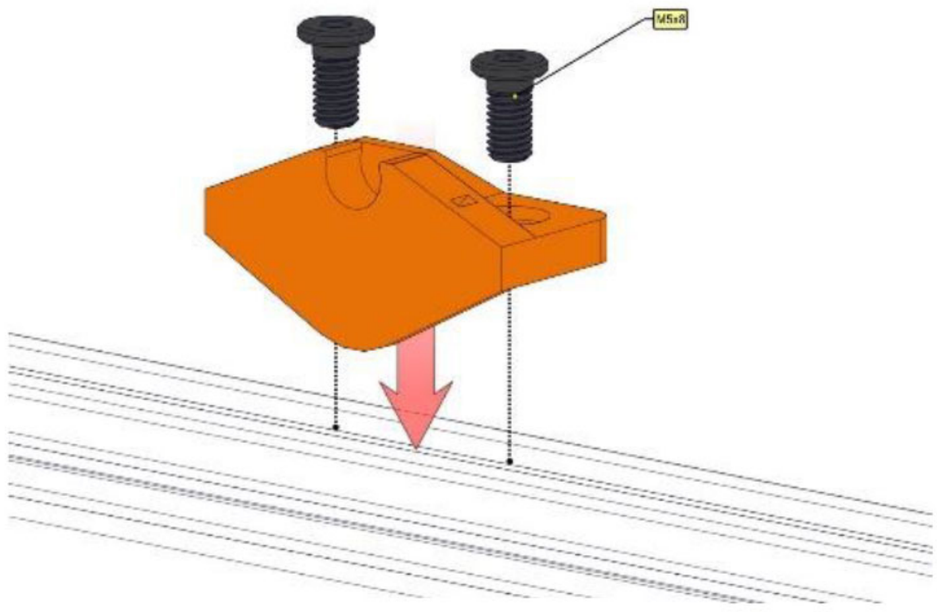


Figure 9

- Using M5x8 and X4.
- Join them with the aluminum from the distance as shown Figure(10).
- Join them to the aluminum as shown Figure(11).
- Repeat this step to the rest of the 4 corners.

COMPONENTS NEEDED FOR THESE STEPS:

Item	Quantity
LM8UU Bearing	4
X5	4
M3x10	20
Springs	4
X6	1
Heated bed	1
Bed holder	1

STEP 11

- Join The LM8 UU bearing with X5 as shown Figure (12).
- Repeat this step to the rest of the 4 bearings.



Figure 11

STEP 12

- Using M3x10 screws and M3 nuts.
- Join the previous assembly to the bed holder as shown Figure (13).

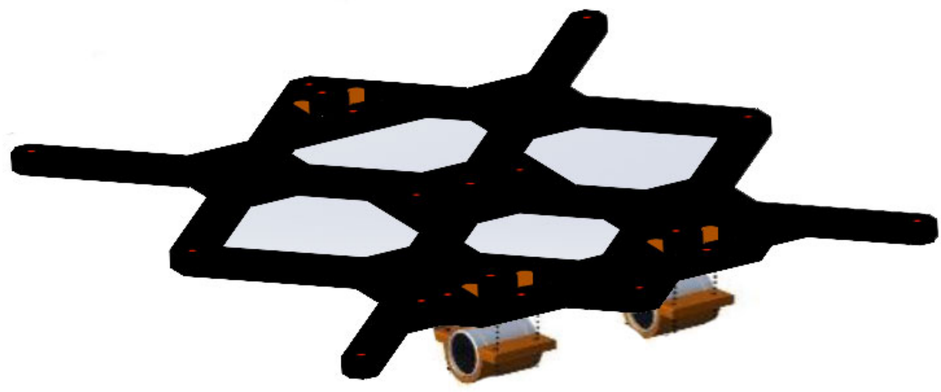


Figure 12

STEP 13

- Using M3x10 screws and M3 nuts.
- Join the onto the bed holders in position as shown in figure (14) .

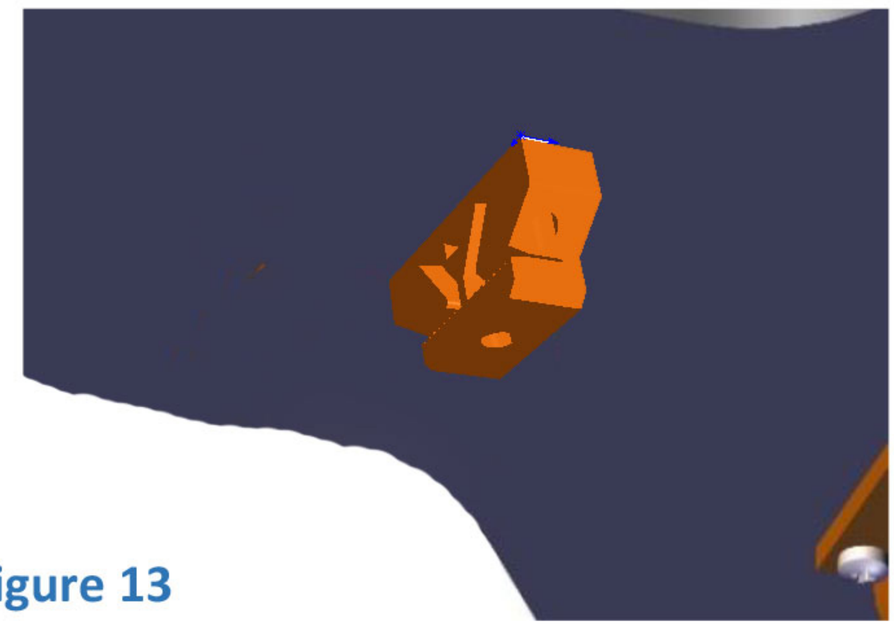


Figure 13

STEP 14

- fasten the part into position well.
- Repeat this step to the rest of the 4 corners.

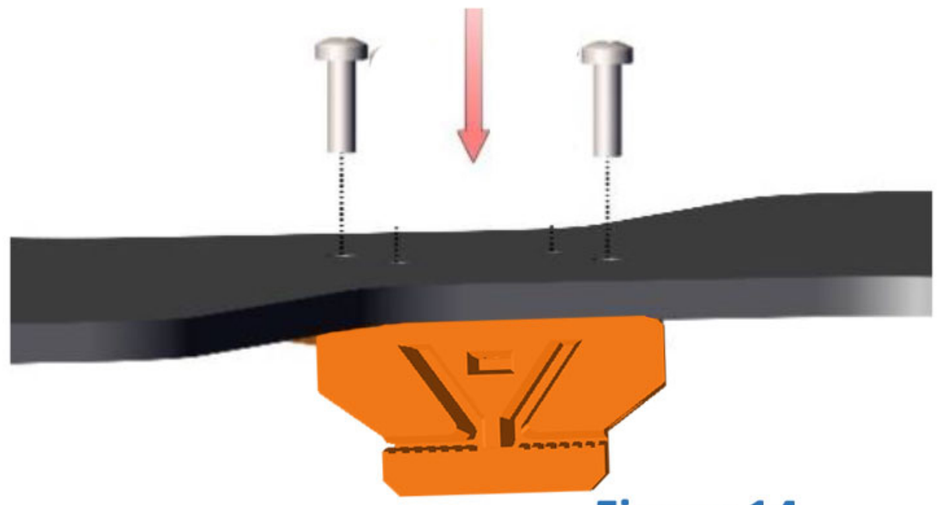


Figure 14

STEP 16

- Using the springs and their bolts .
- Place the springs between the bed and the bed holder then fasten them with the bolts as shown in figure (17).

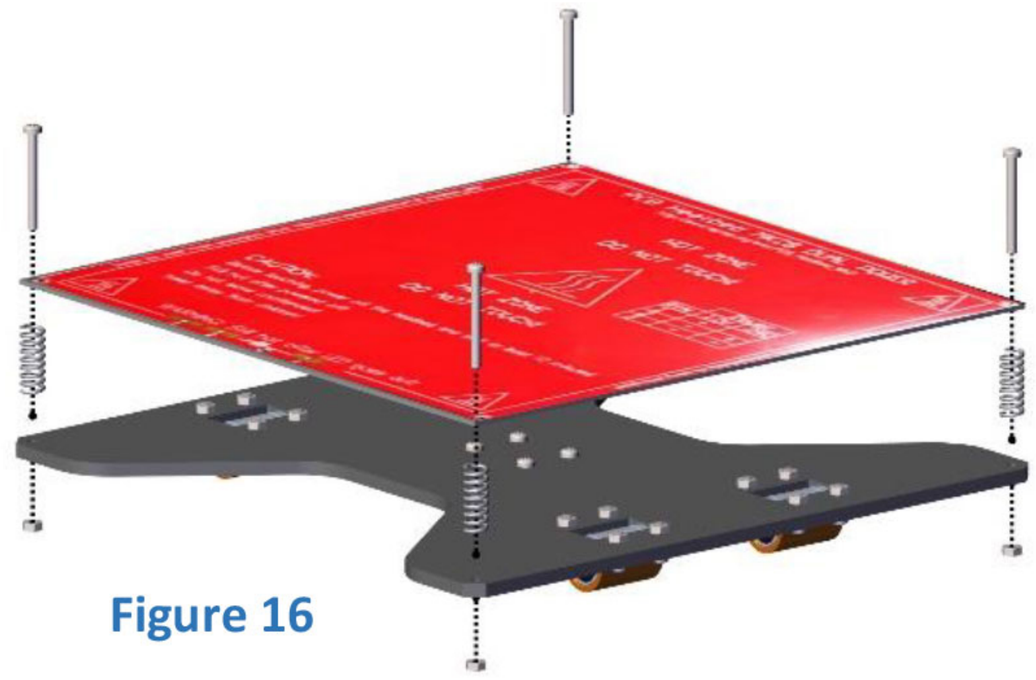


Figure 16

STEP 17

- The bed and bed holder assembly (figure (18)).

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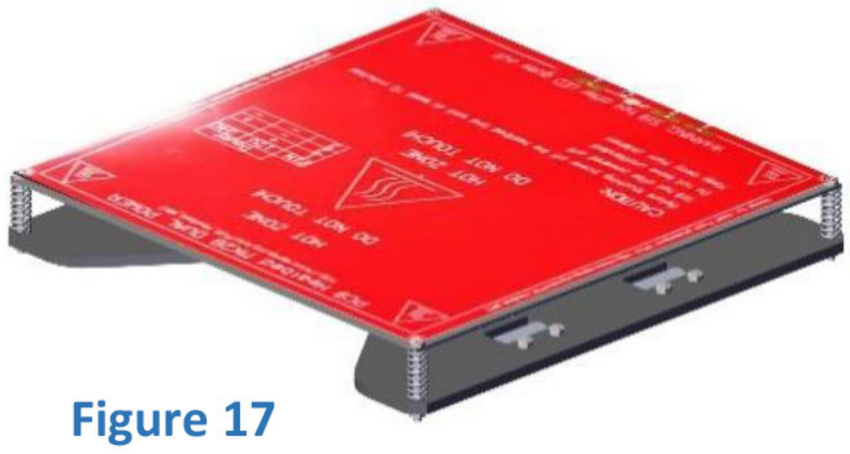


Figure 17

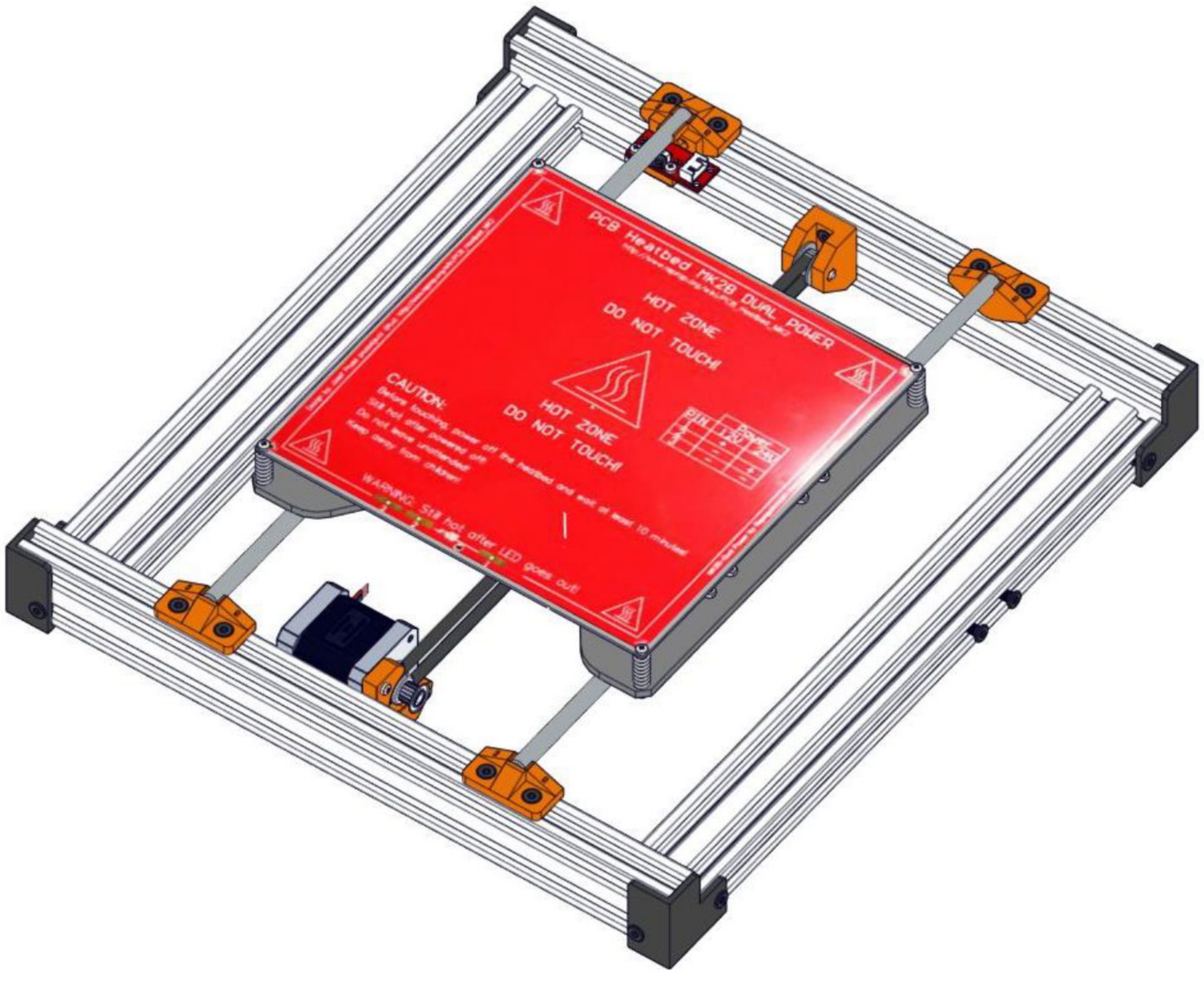
STEP 18

- Place the previous assembly into position on the Y-axis.

.



Figure 18



Finished Y-axis

X-AXIS ASSEMBLY

COMPONENTS NEEDED FOR THESE STEPS

Item	Quantity
LM8UU Bearing	4
Bearing holder	4
M3x10	20
Springs	4
Belt tensioner	1
Heated bed	1
Bed holder	1

STEP 1

- Place the LM8UU bearing into its position in the X7 as shown in figure (20).

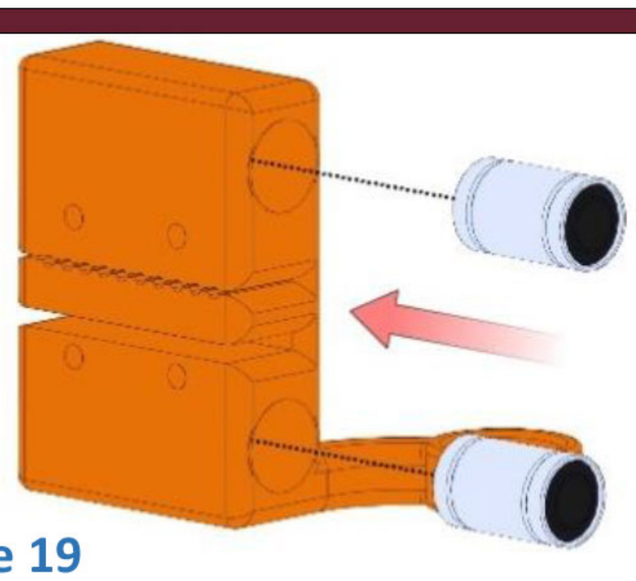


Figure 19

STEP 2

- Lock the pulley Figure (6).

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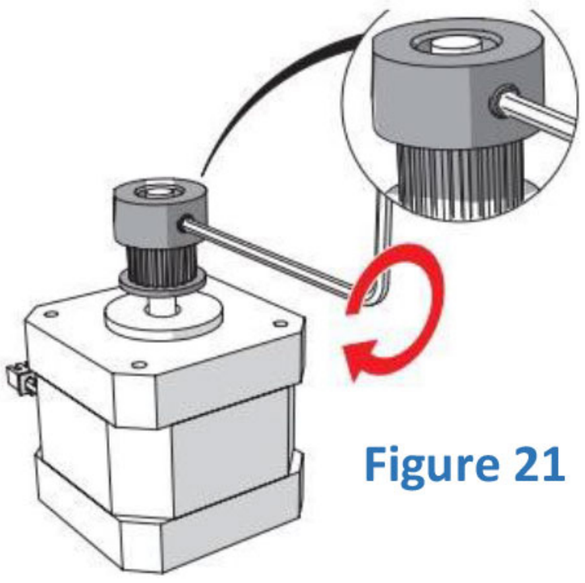


Figure 21

STEP 3

- Join the nema 17 motor with X1.
- using M3x10 .

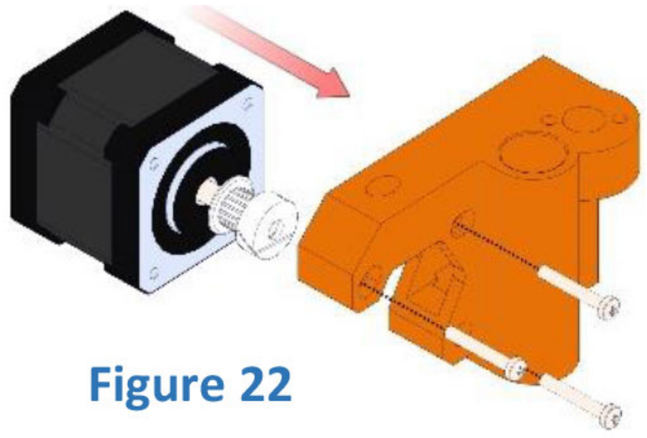


Figure 22

STEP 4

- After fixing the motor position place the LM8UU bearings As shown in figure (23).

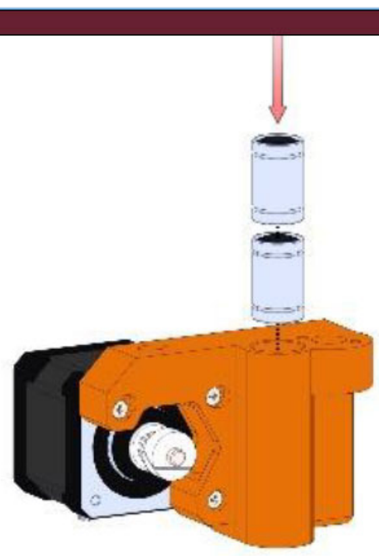


Figure 23

STEP 5

- Join the LM8UU bearings with X2 as shown in figure (24).

Figure 24



STEP 6

- Using M3x10.
- Place and secure the lead srew nut with X2 as shown in fig.(25).

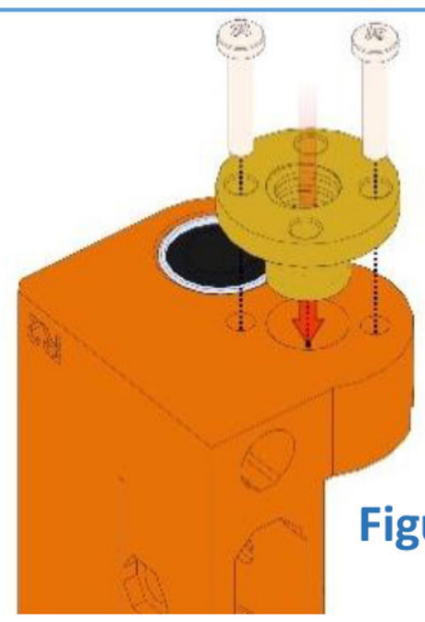


Figure 25

STEP 7

- Then Place the Idler into its position in X2 .
- Secure its position using M3 as shown in fig.(26).

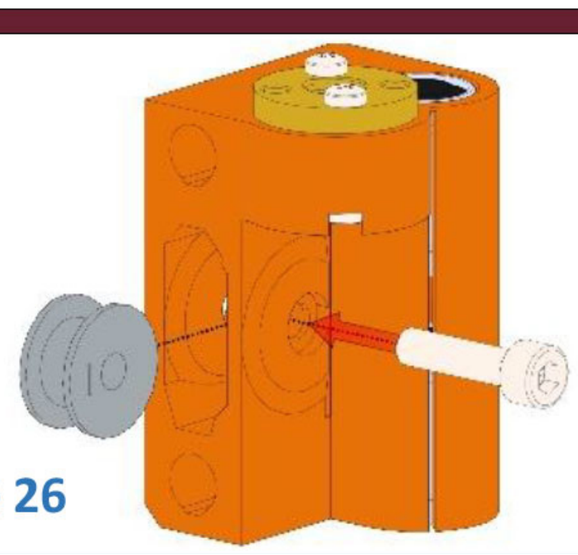


Figure 26

STEP 8

- Place the linear guides as shown in figure (27).

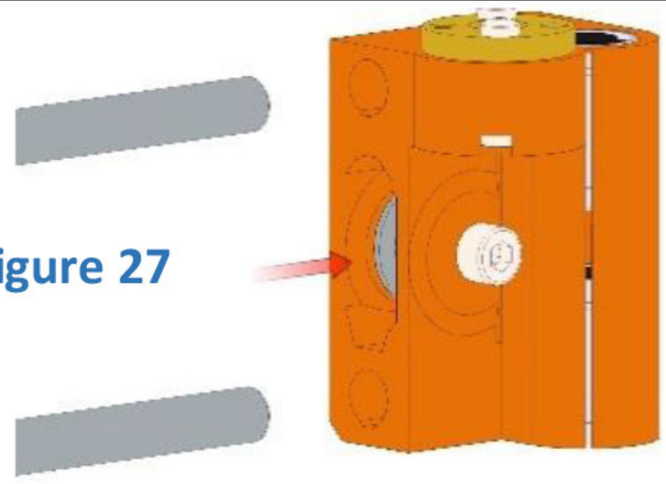


Figure 27

STEP 9

- Place the Limit switch on X3.
- Fix its position using M3 as shown in fig.

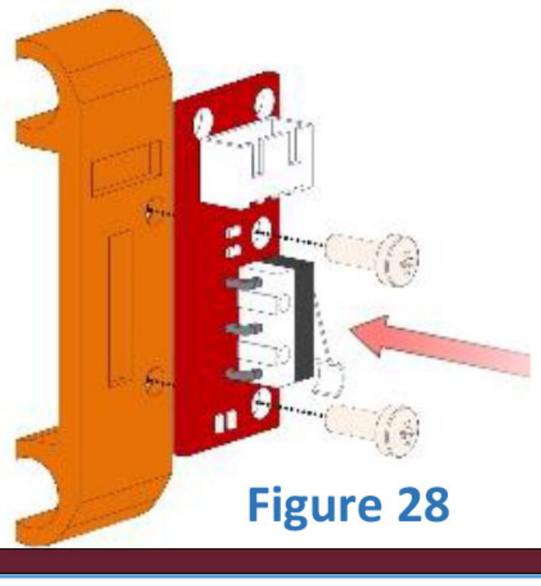


Figure 28

STEP 10

- Place the previous assembly on the linear guide placed earlier.

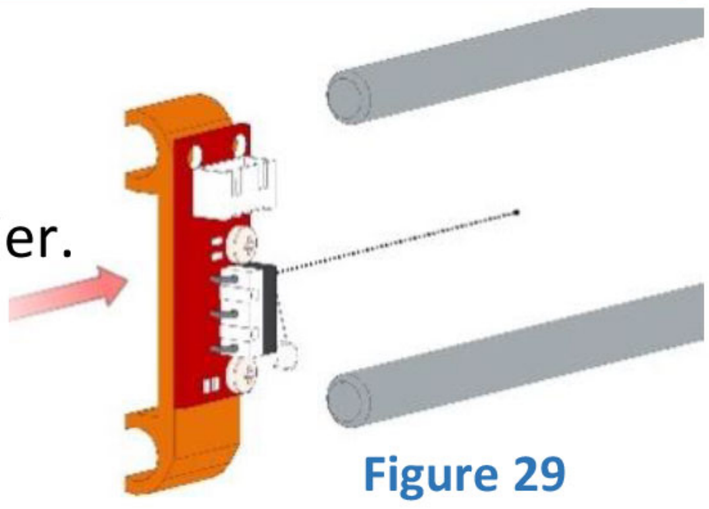


Figure 29

STEP 11

- Join X7 with X5 as shown in Figure (30).
- Using M3

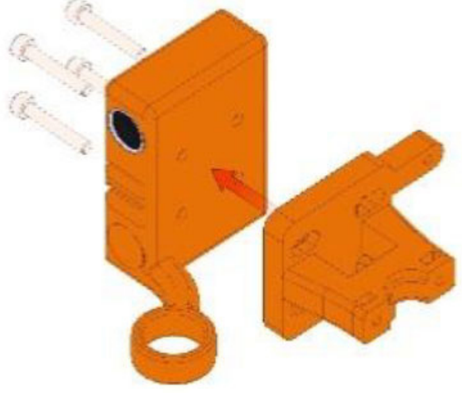


Figure 30

STEP 12

- Place the sensor into position in the previous assembly.
- Fasten its position with the nut as shown in fig. (31).

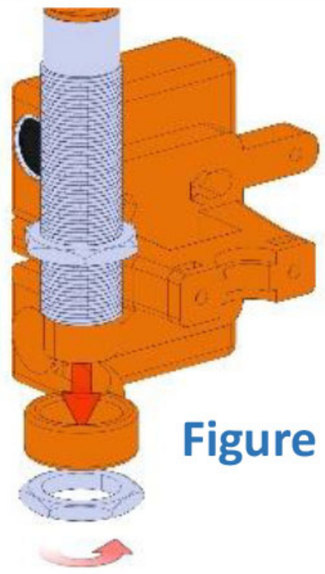


Figure 31

STEP 13

- Join X6 and the turbo fan into position on the previous Assembly as shown in fig. (32).

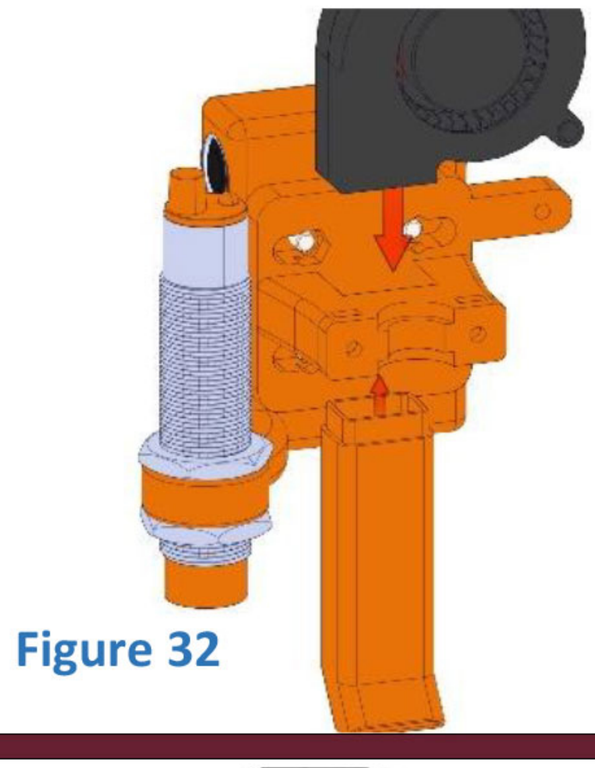


Figure 32

STEP 14

- Join the Hot end into the group as shown in fig. (33).

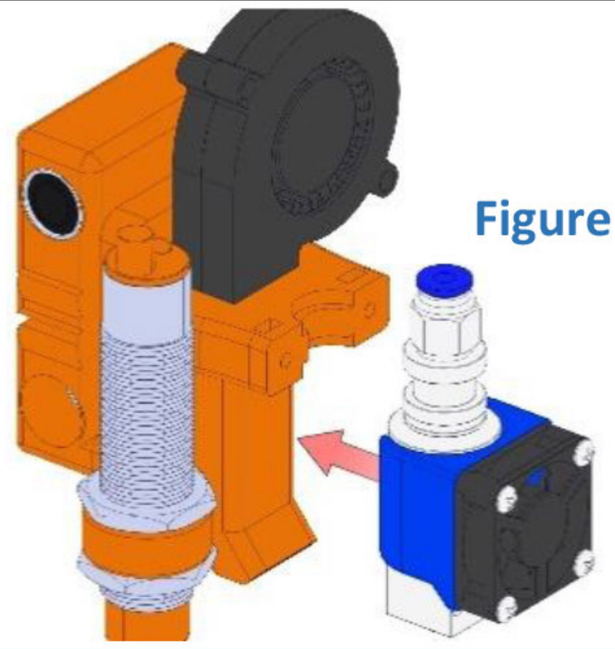


Figure 33

STEP 15

- Fix the Hot end position with X5 using M3 As shown in fig. (34).

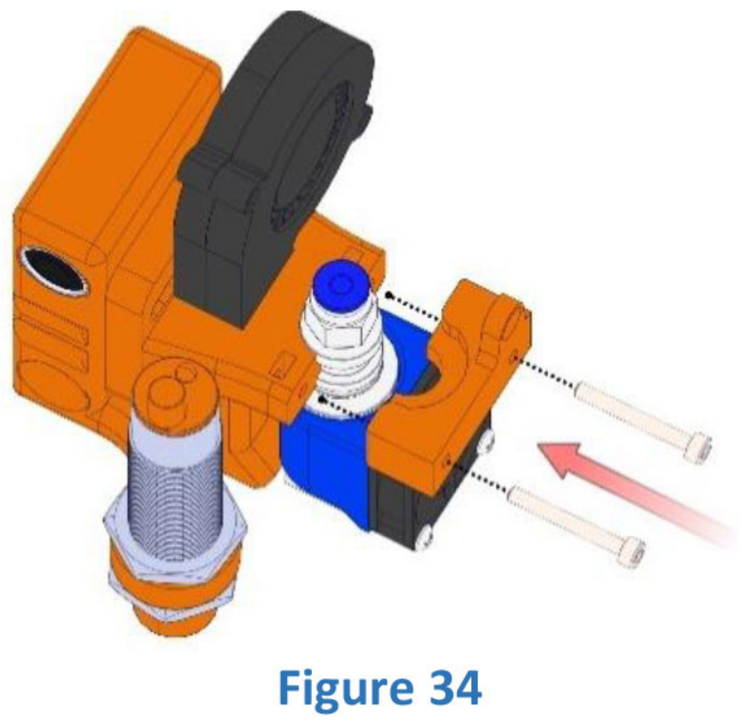


Figure 34

STEP 16

- Fix the previous assembly on the pre-installed linear guides with X2 as shown in Figure (35).

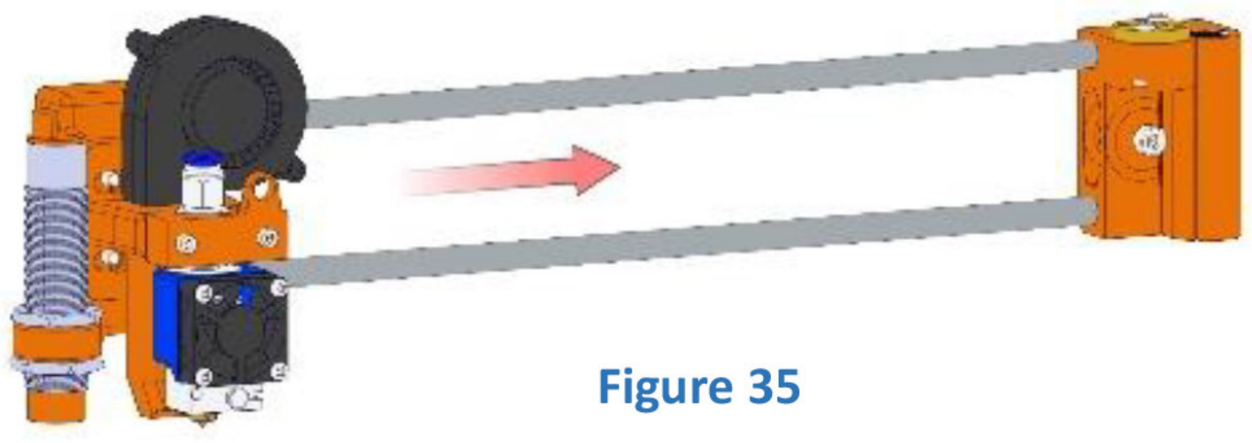


Figure 35

STEP 17

- Figure (36) showing the other end of the linear guides on X1.

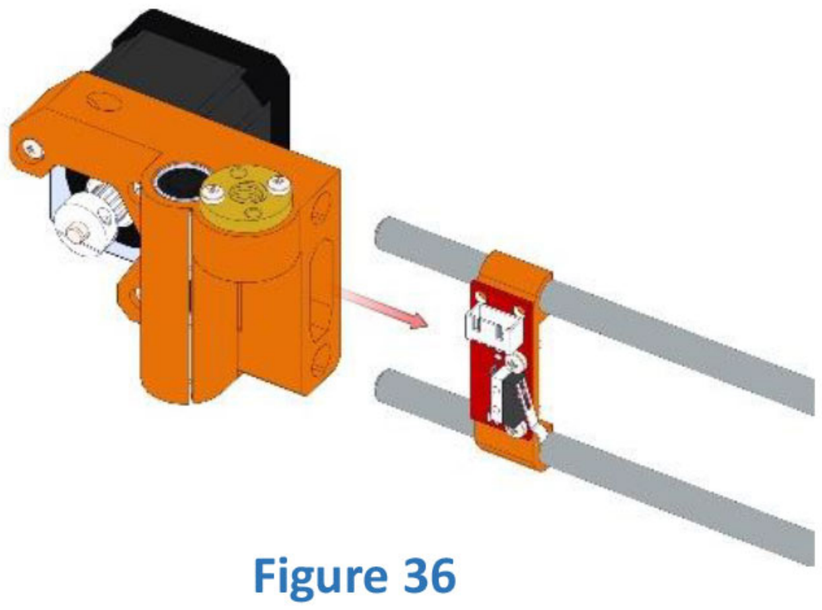
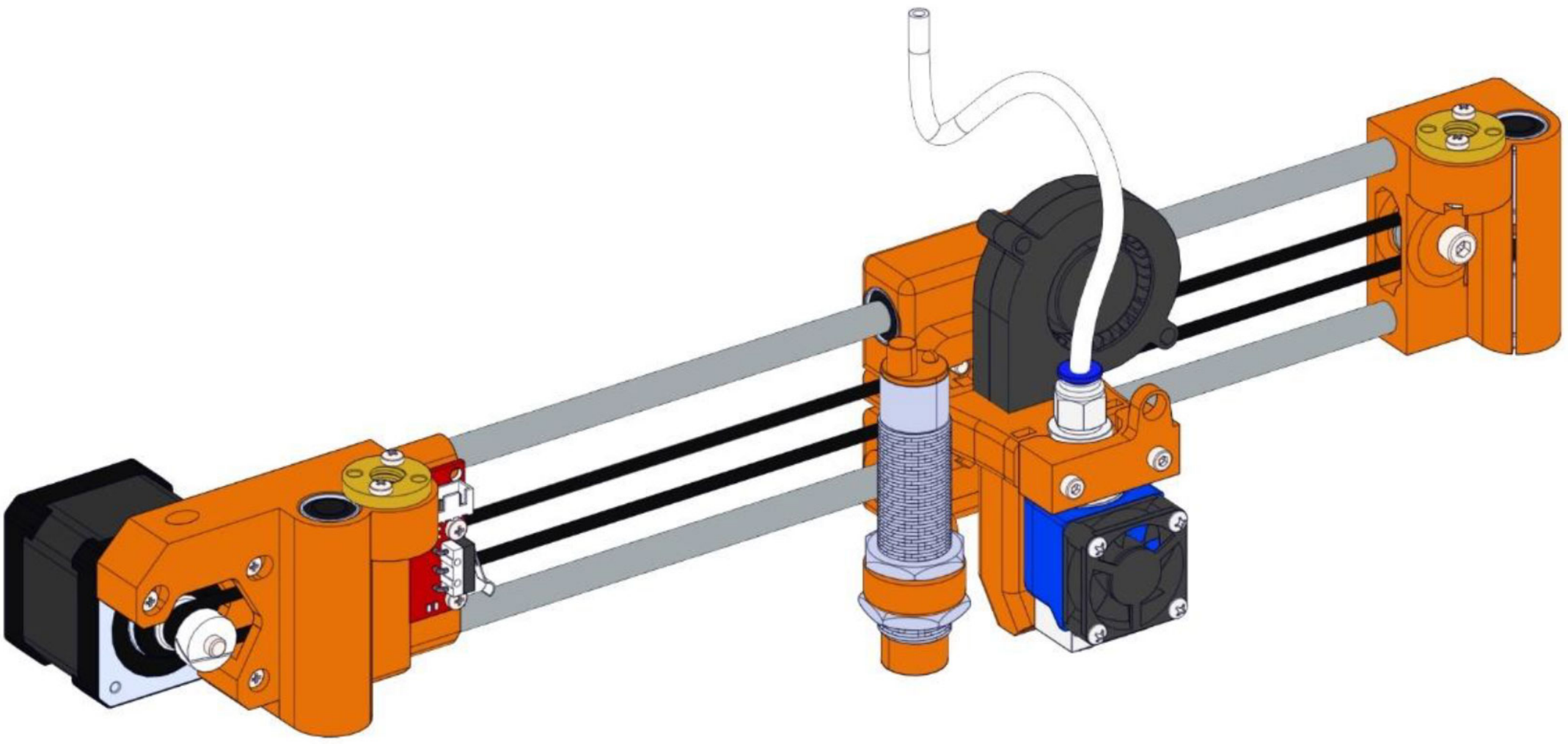


Figure 36



Finished X-Axis

EXTRUDER-AXIS ASSEMBLY

COMPONENTS NEEDED FOR THESE STEPS

Item	Quantity
LM8UU Bearing	4
Bearing holder	4
M3x10	20
Springs	4
Belt tensioner	1
Heated bed	1
Bed holder	1

STEP 1

- Place the gear on the nema 17 motor as shown in fig.

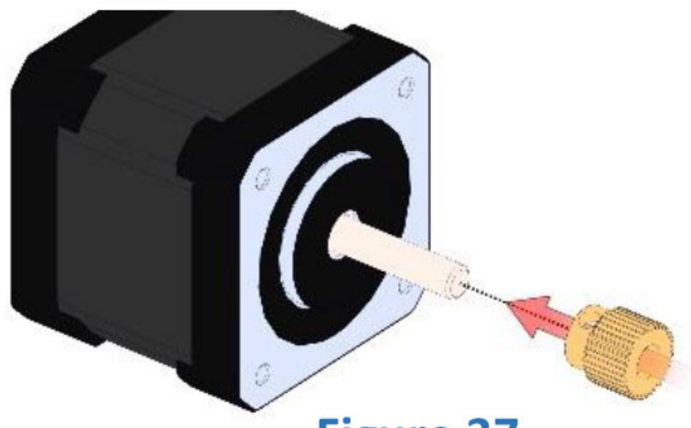


Figure 37

STEP 2

- Place the assembly from step(1) on the motor holder and extruder body as shown in Figure (38).
- fasten the group with the correct bolts.

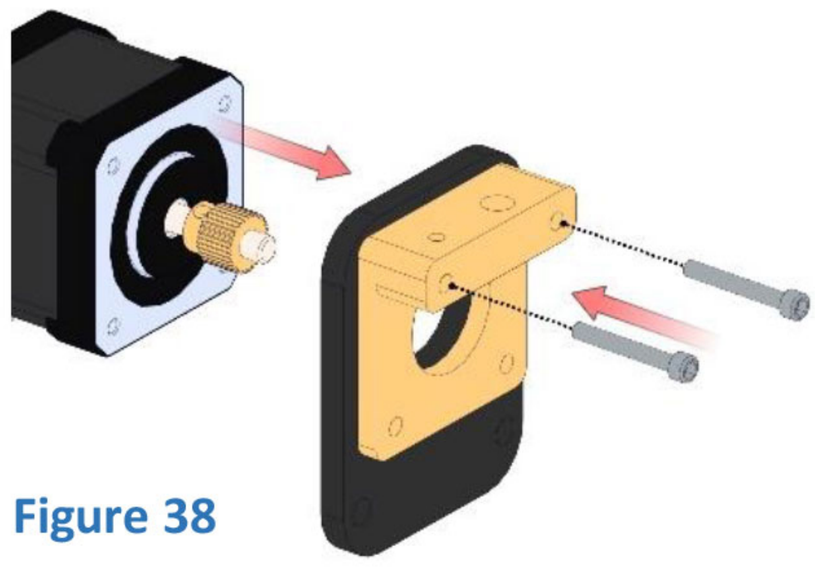


Figure 38

STEP 3

- Add the Idler on them and fasten it in a position Relative to the motor gear.
- Use the idler bolt to fix its position.

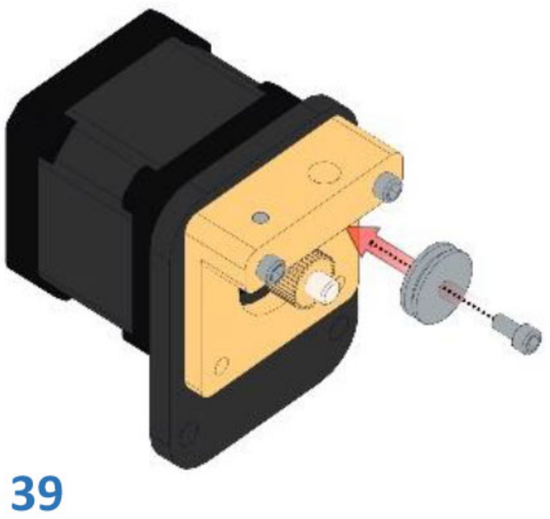


Figure 39

STEP 4

- Add the extruding exit shaft as shown in fig (40).

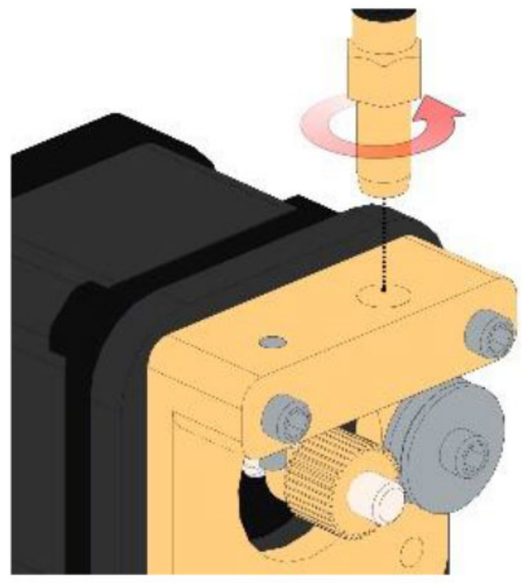


Figure 40

STEP 5

- Place the spring and secure it with its bolt .
- Add the filment extruding entering shaft as shown.

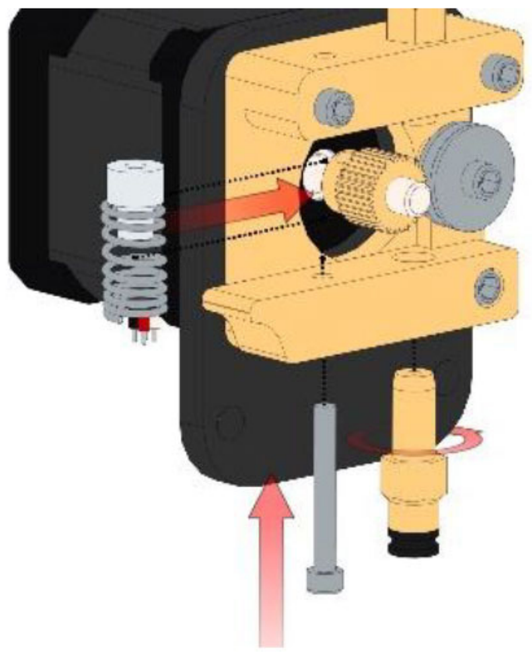


Figure 41

STEP 6

- Place the springs adjusting bolt as shown in fig.

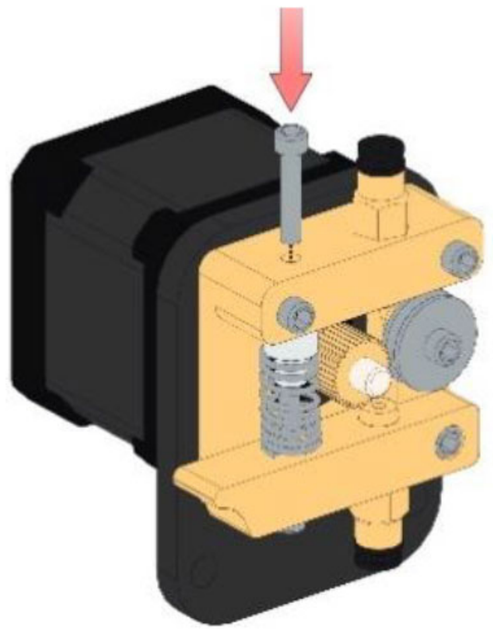
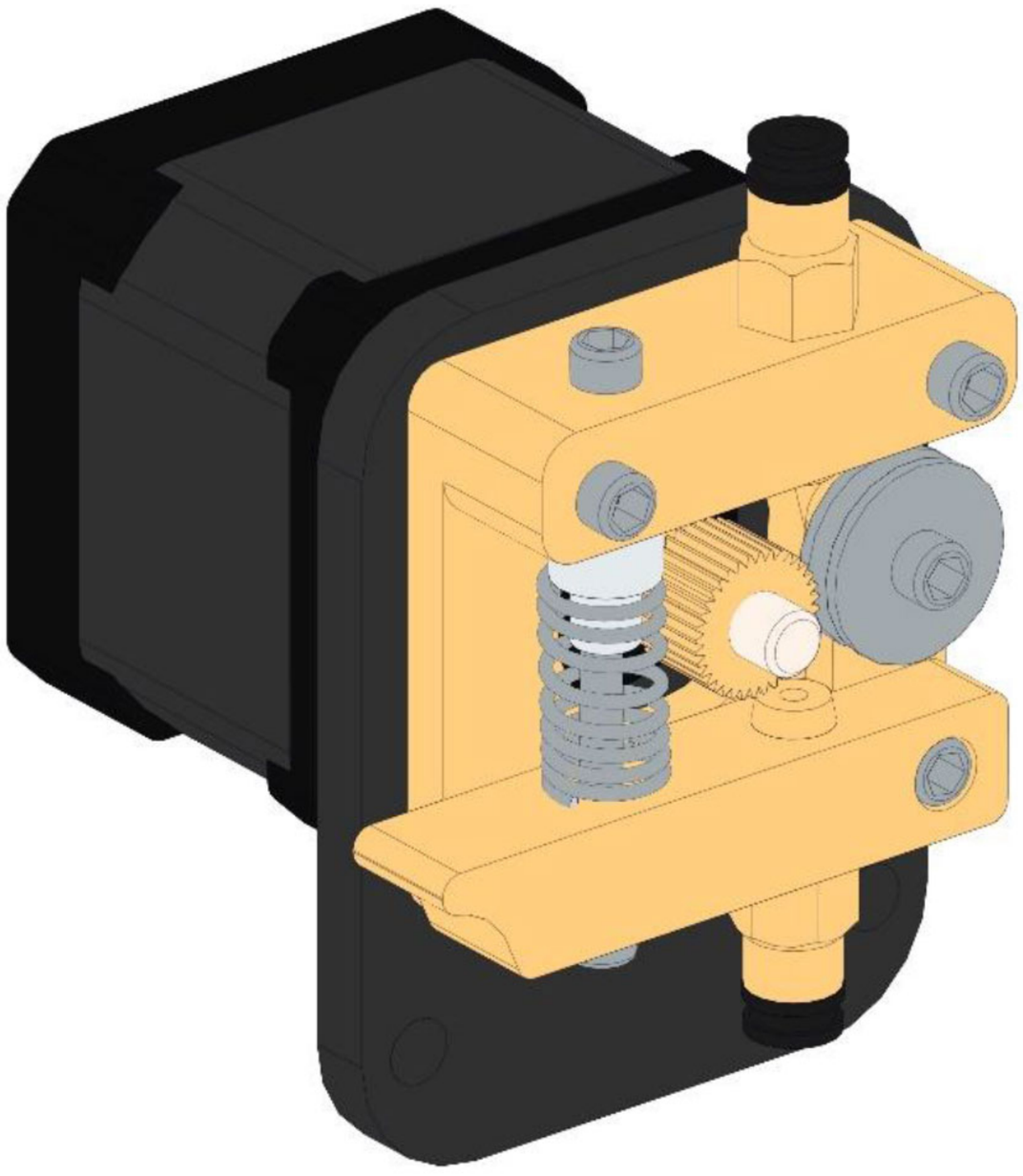


Figure 42



Finished Extruder

Z-AXIS ASSEMBLY

COMPONENTS NEEDED FOR THESE STEPS

Item	Quantity
LM8UU Bearing	4
Bearing holder	4
M3x10	20
Springs	4
Belt tensioner	1
Heated bed	1
Bed holder	1

STEP 1

- Place the Z1 on the aluminum profile as shown in Figure (43).

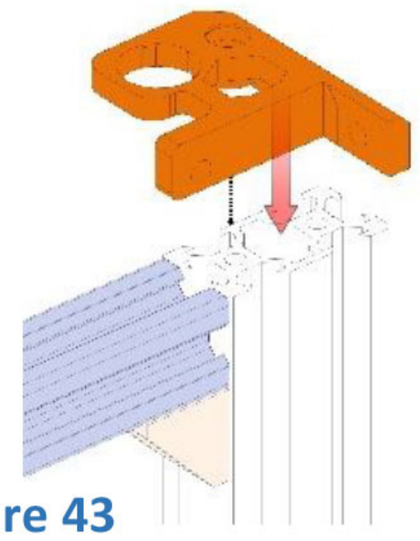


Figure 43

STEP 2

- Fasten the Z1 position on the aluminum profile.
- Using M5 screws as shown in fig.

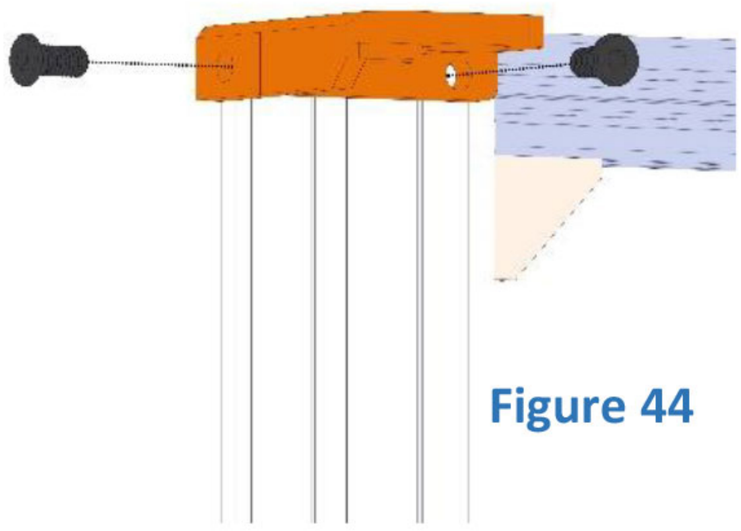


Figure 44

STEP 3

- Place the remaining aluminum profile on the Corners as shown.

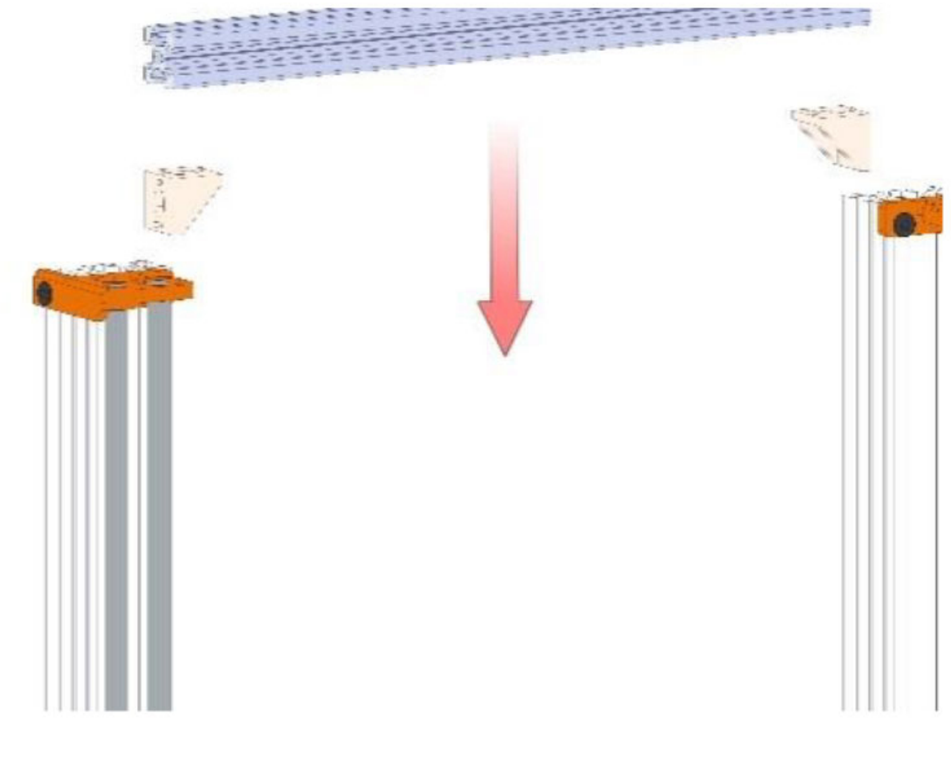


Figure 45

STEP 4

- Fix the corners in positon as shown in Figure (46).
- Using M5 bolts .

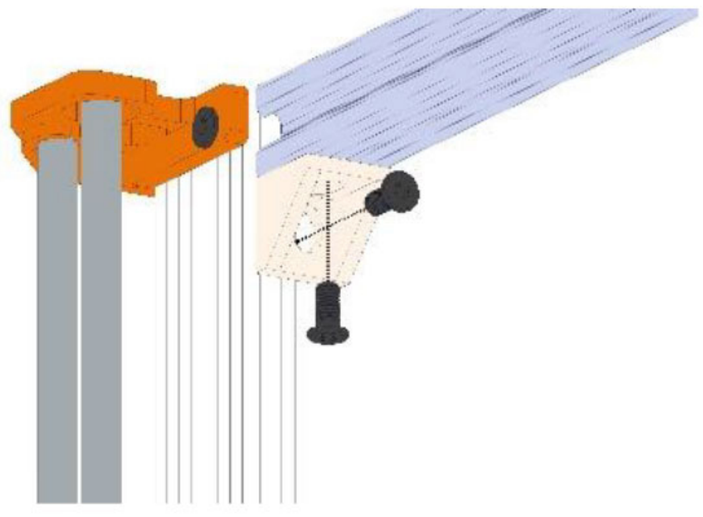


Figure 46

STEP 5

- Join the extruder assembly on the latest aluminum profile.

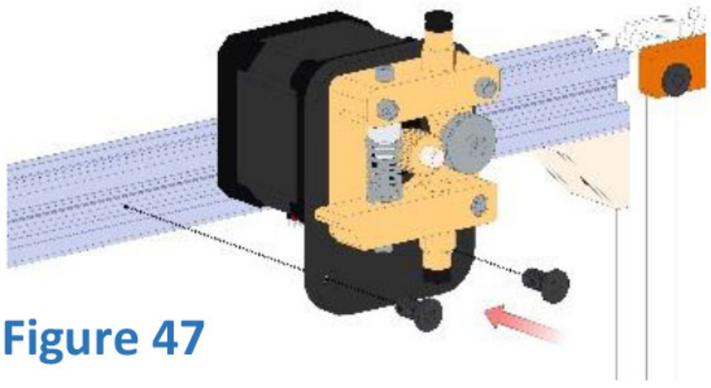


Figure 47

STEP 6

- Join the Nema 17 motor with Y2 as shown in Figure (48).
- Join them using M3 screws.

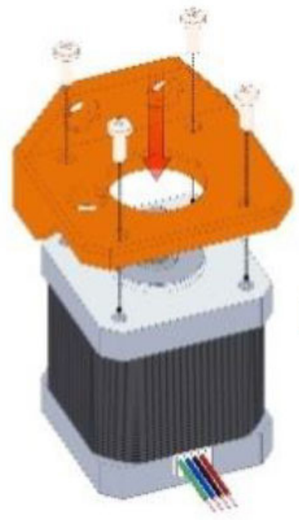


Figure 48

STEP 7

- Fix the previous assembly on the Z-axis.
- Use M5 screws as shown in Figure (49).

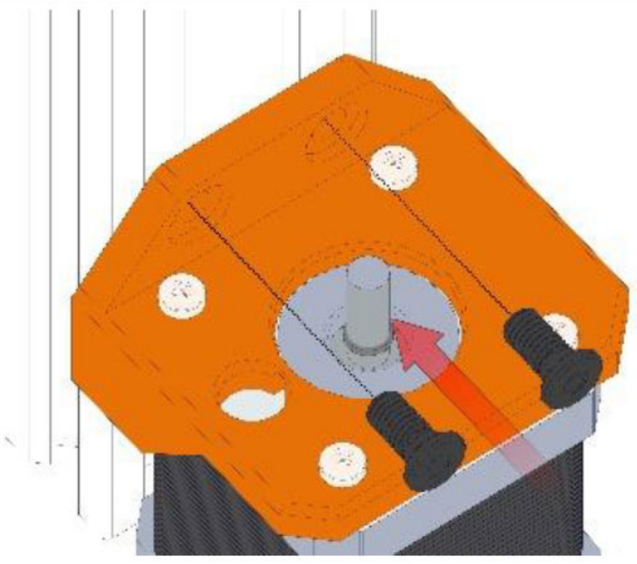


Figure 49

STEP 8

- Then Place the coupler in place on the motor shaft As shown in figure (50).

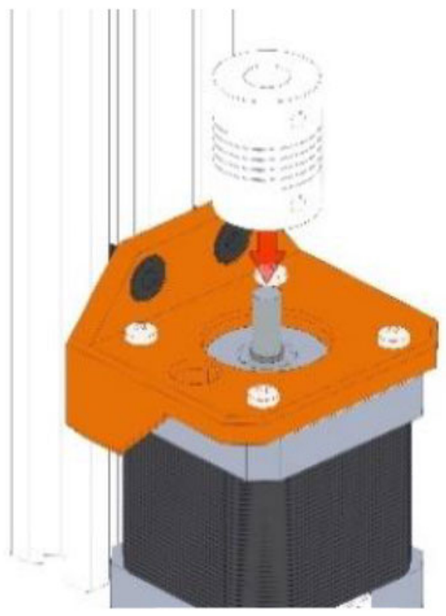


Figure 50

STEP 9

- Transit the lead screw on the motor shaft through The Coupler as shown in figure (51).

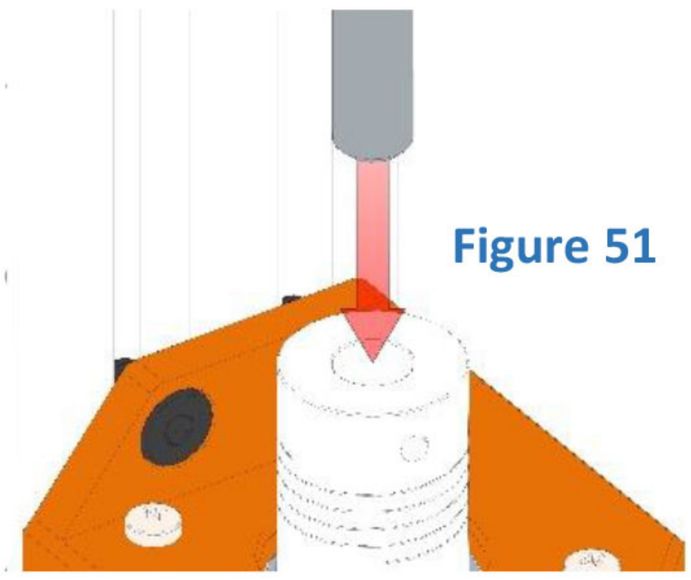


Figure 51

STEP 10

- Place the other linear guide.

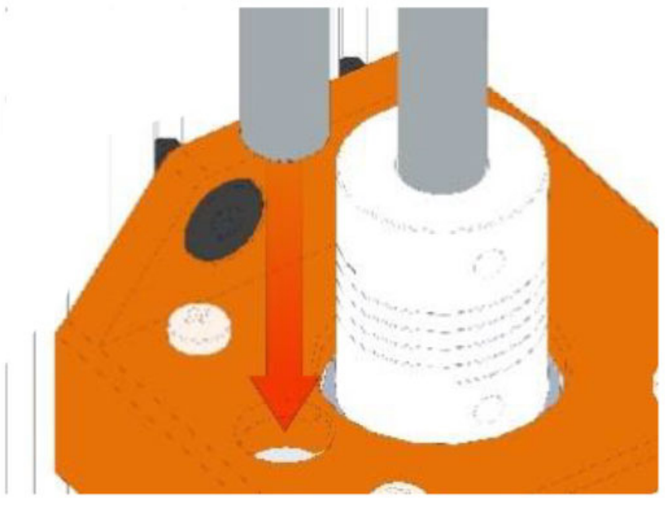


Figure 52

STEP 11

- Repeat the previous steps on the other side of aluminum profile on the Z-axis.

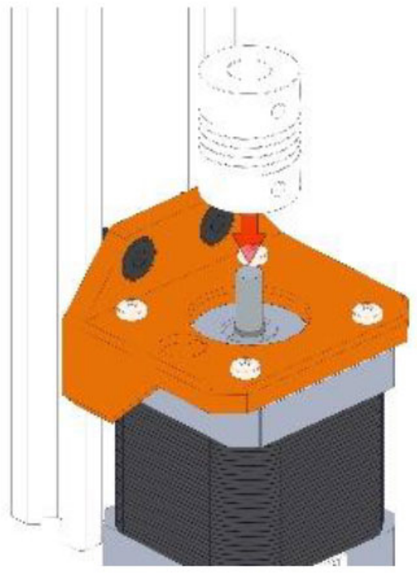
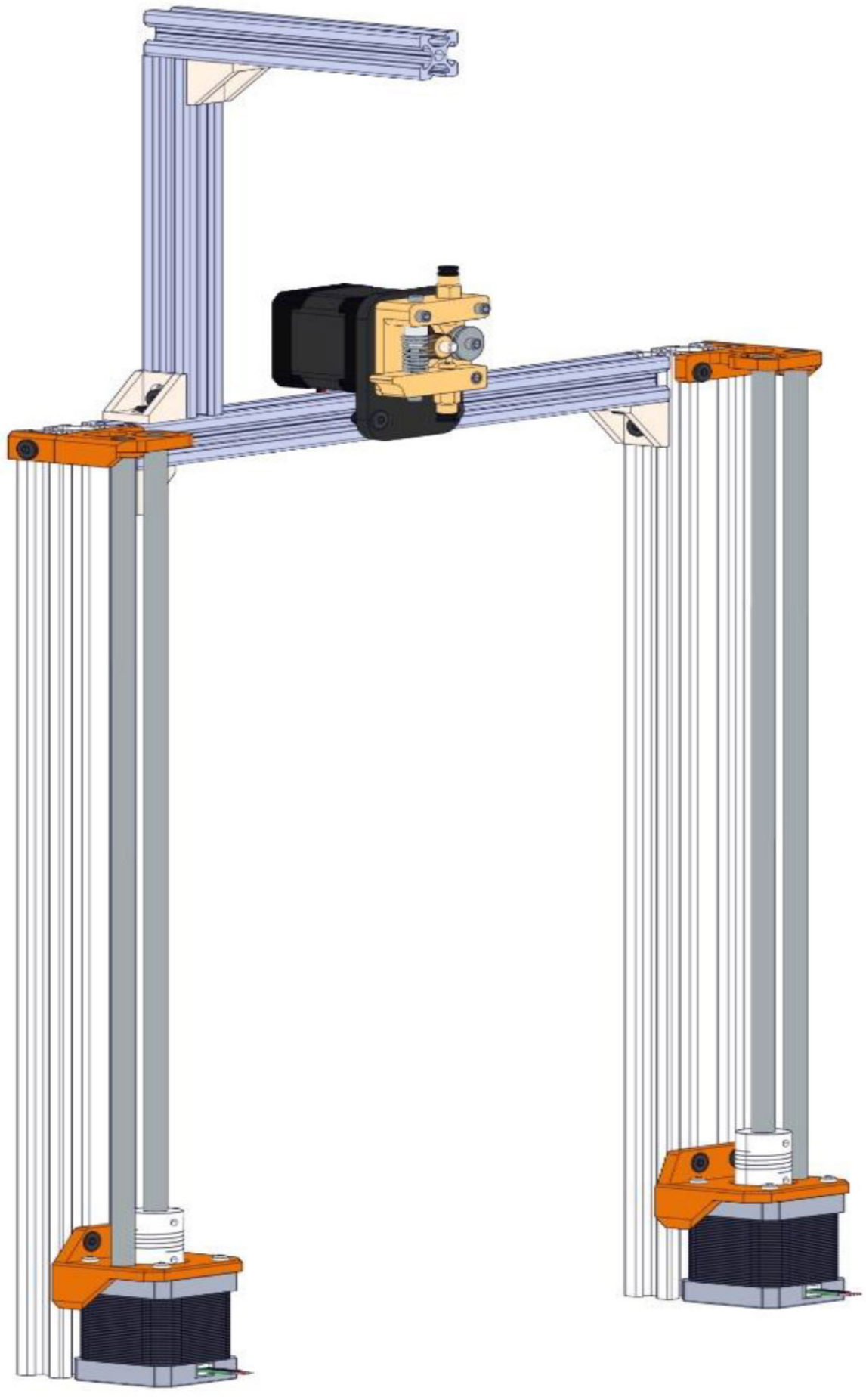


Figure 53



Finished Z-Axis

Z-AXIS ASSEMBLY TO THE FRAME

COMPONENTS NEEDED FOR THESE STEPS

Item	Quantity
LM8UU Bearing	4
Bearing holder	4
M3x10	20
Springs	4
Belt tensioner	1
Heated bed	1
Bed holder	1

STEP 1

- Measure 143mm(14.3cm) from the back of the frame and mark it.
- Join the Z-axis to the rest of the frame over the mark in the previous step as shown in Figure (54).

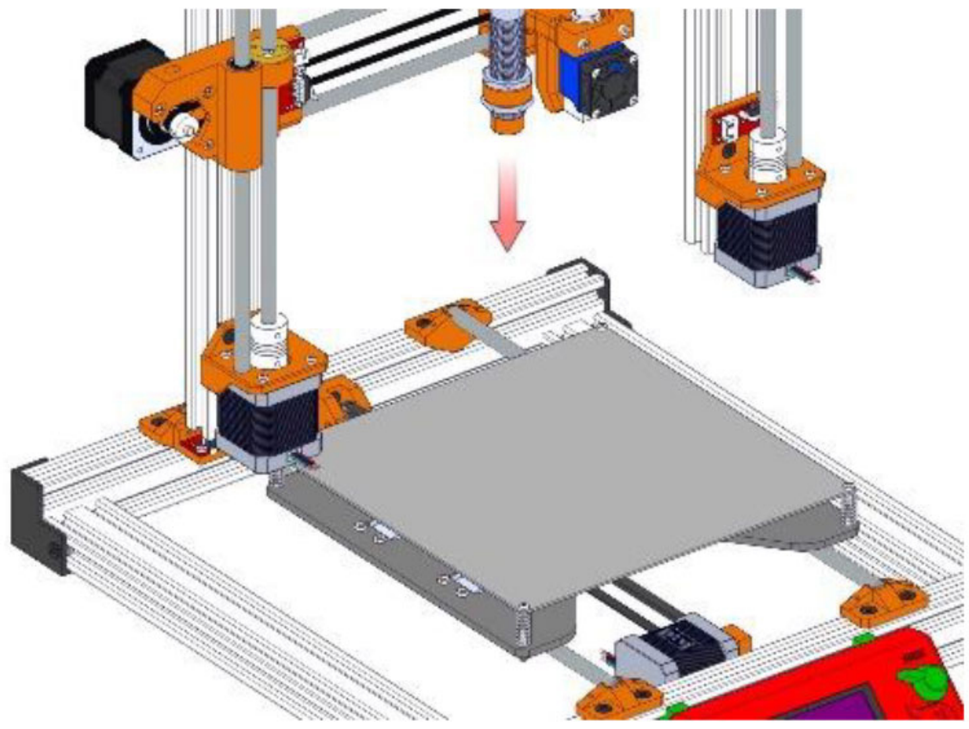


Figure 54

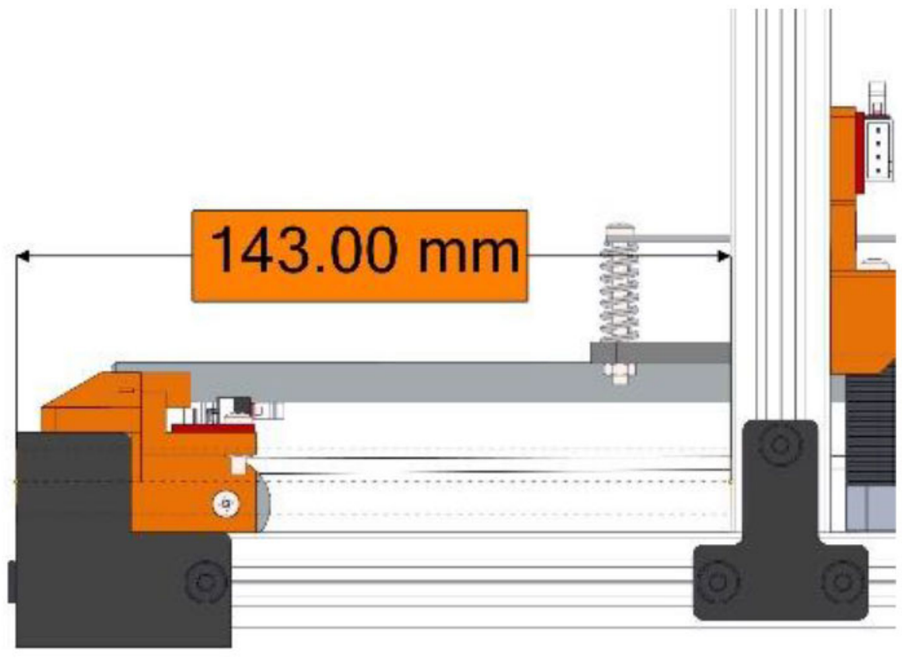


Figure 55

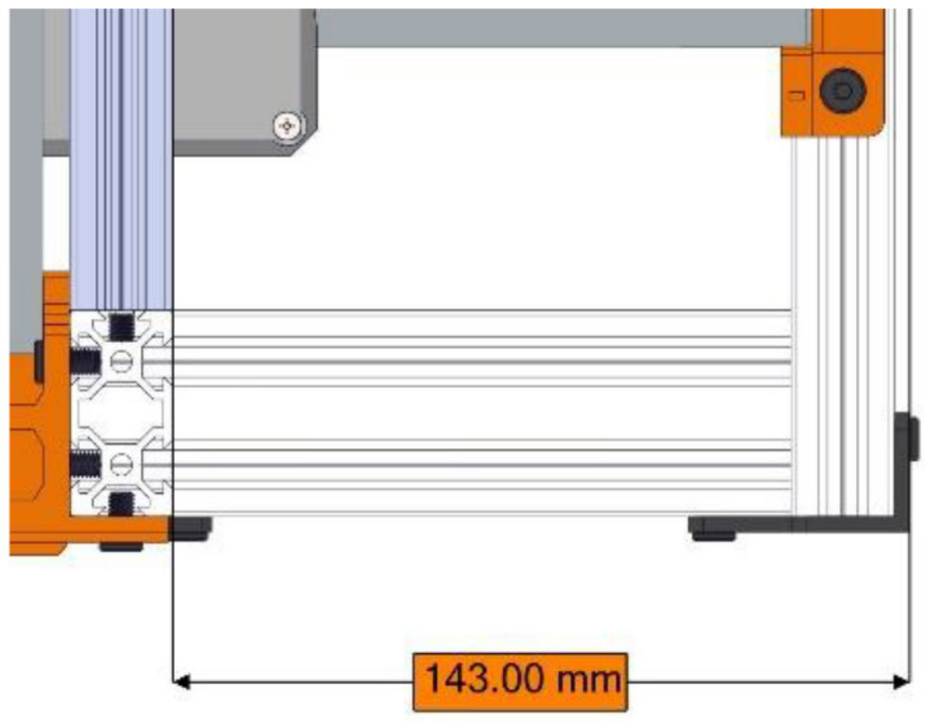


Figure 56

STEP 2

- While holding the frame join it with the T-shaped acrylic part and the 3 screws as shown in figure (57).

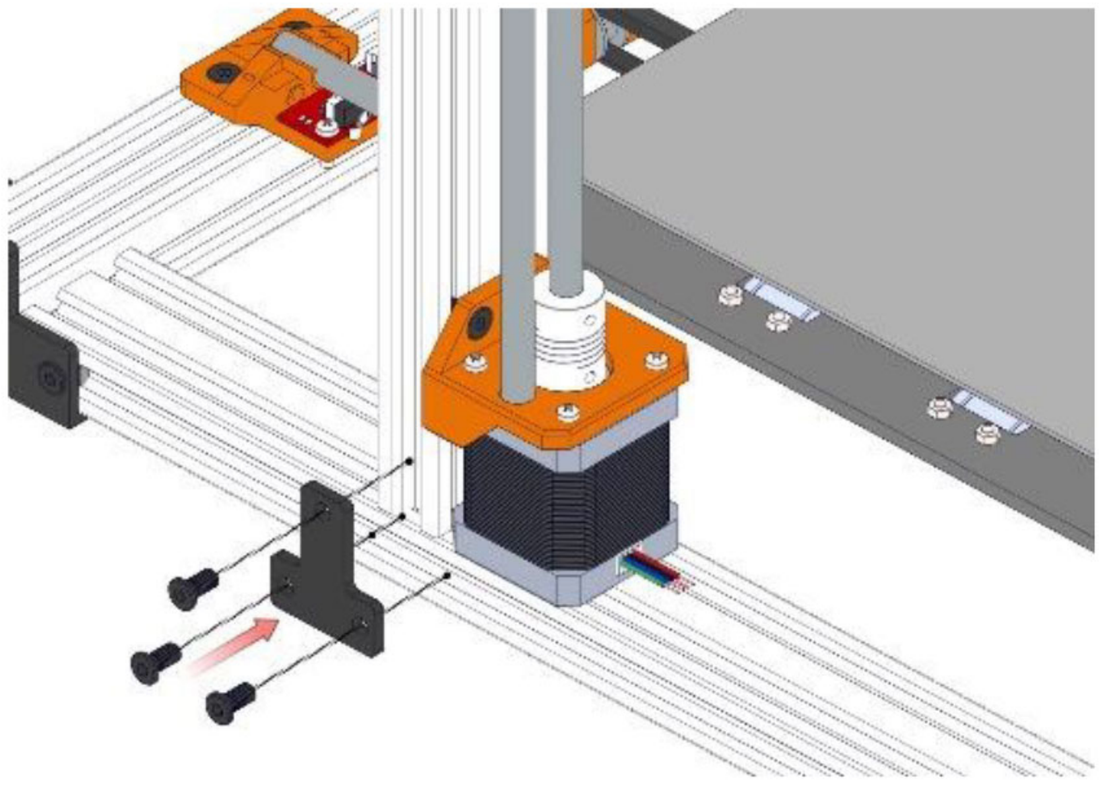
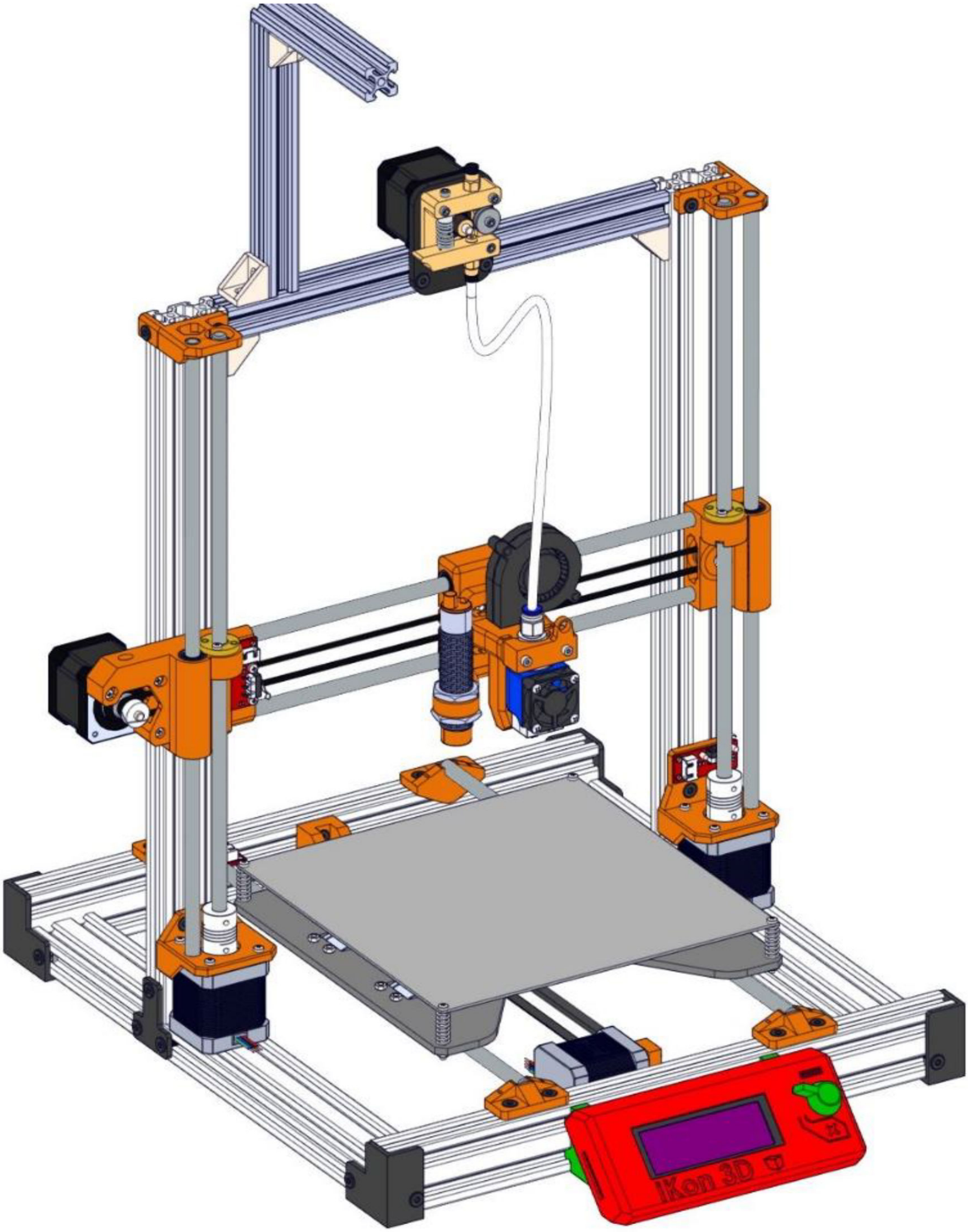


Figure 57



Finished Assembly