Milestone 2 Building Instructions

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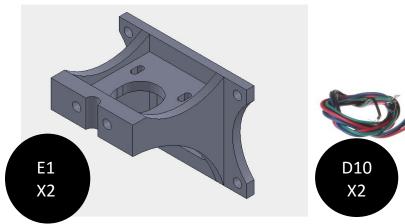
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Ava Mistry

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Rachelle Walter

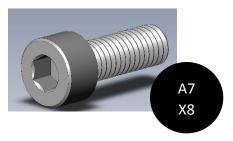
Y Axis Motor Mount (both sides): Parts



D10 X2

Lower Z motor mount

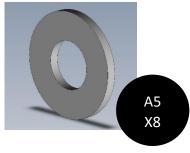
Nema 17 Stepper Motor



M5 X 14mm bolt



M3 X 10mm bolt

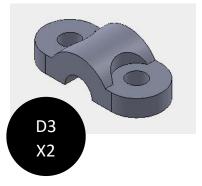


M5 washer

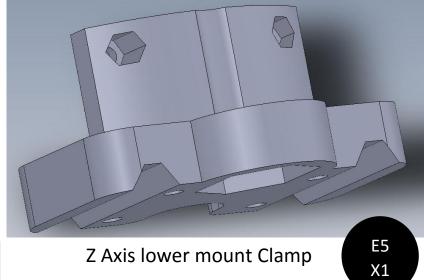


M3 Washer

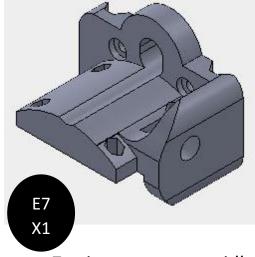
Y Rods and clamp for z axis (Non-motor side): Parts



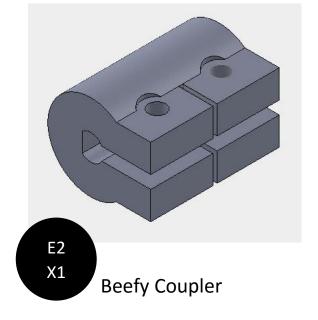
Z rod clamp

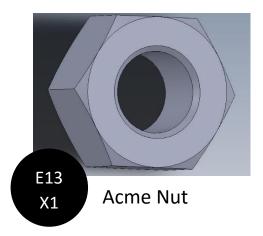


Z Axis lower mount Clamp

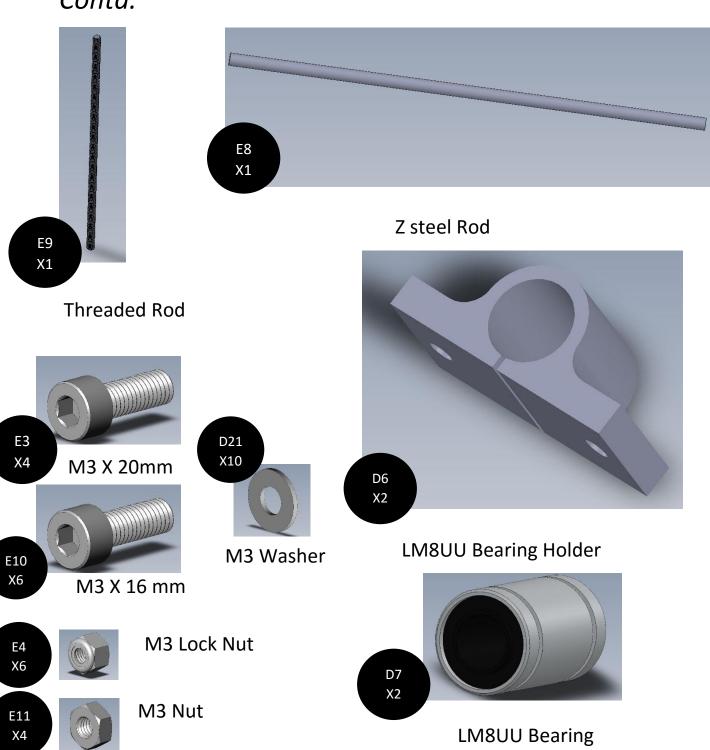


Z axis upper mount idle

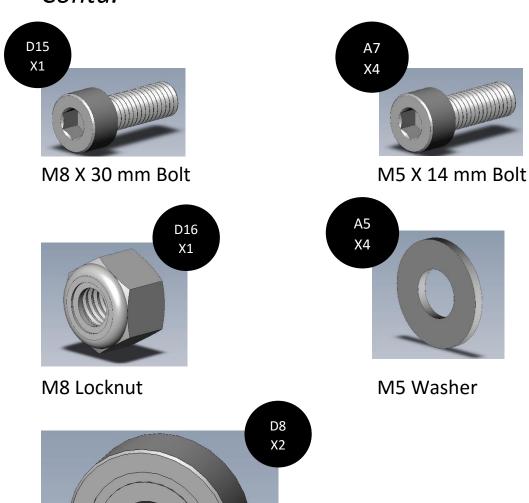




Y Rods and clamp for z axis (Non-motor side): Parts Contd.

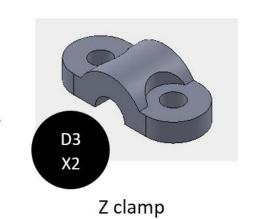


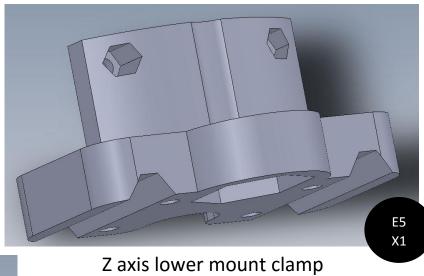
Y Rods and clamp for z axis (Non-motor side): Parts Contd.

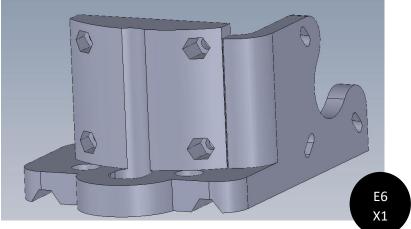


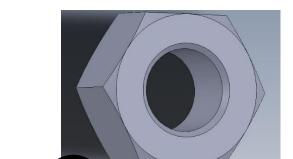
6082Z Bearing

Y Rods and clamp for Z axis (Motor side): Parts



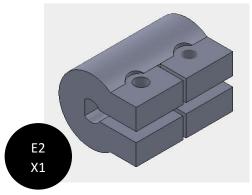






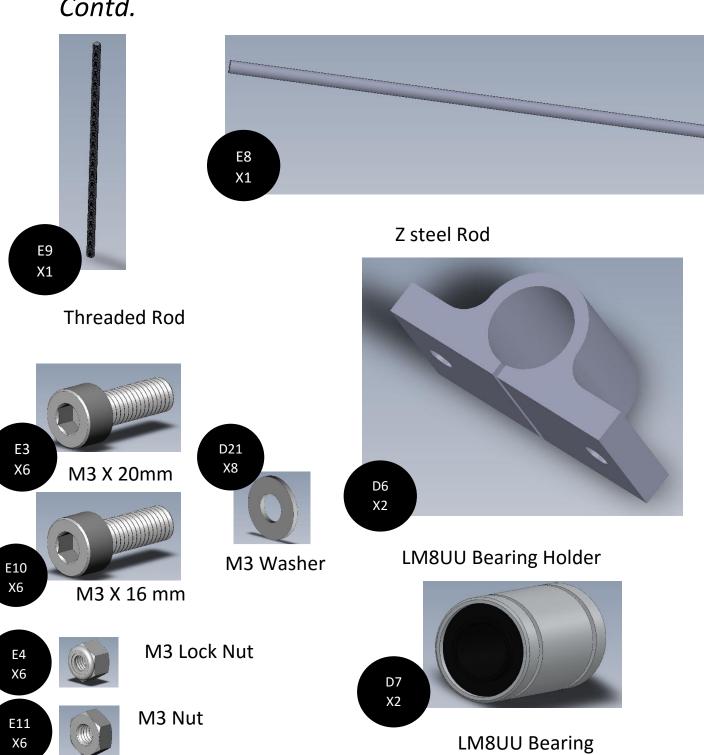
E13 X1 3/8-12 Acme Nut

Upper Z motor mount



Beefy Coupler

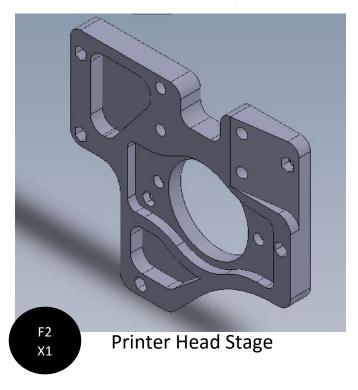
Y Rods and clamp for z axis (motor side): Parts Contd.

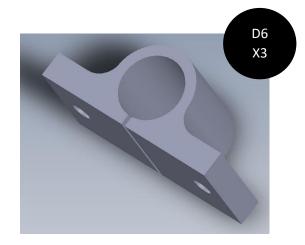


Y Rods and clamp for z axis (motor side): Parts Contd.



Z axis and X carriage: Parts



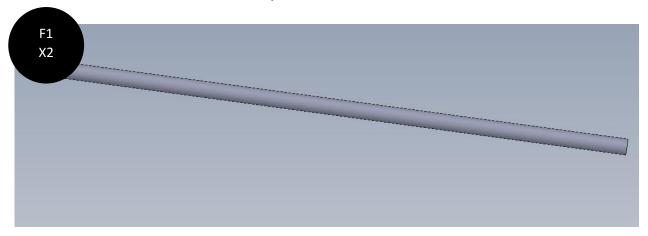


LM8UU Bearing Holder



LM8UU Bearing

5/16" drill Rod 36"



Z axis and X carriage: Parts Contd.

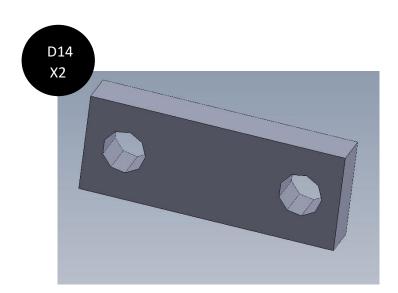


M3 X 16mm Bolt



M3 Washer

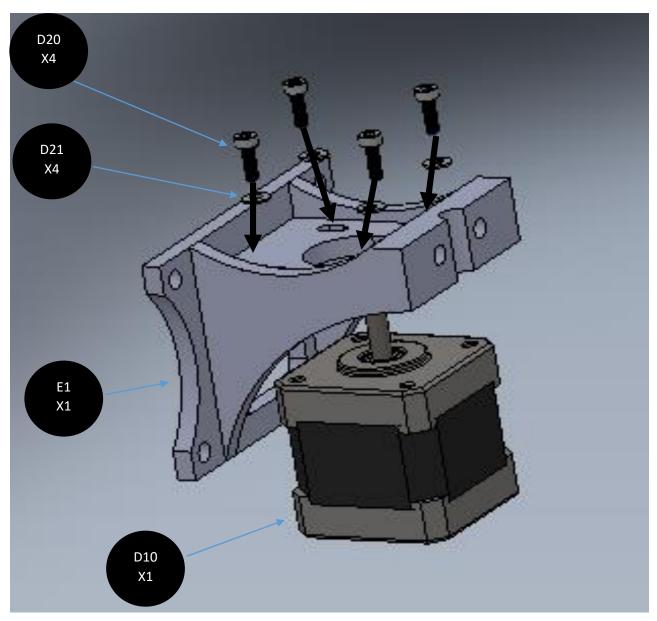




A333
D12
X1

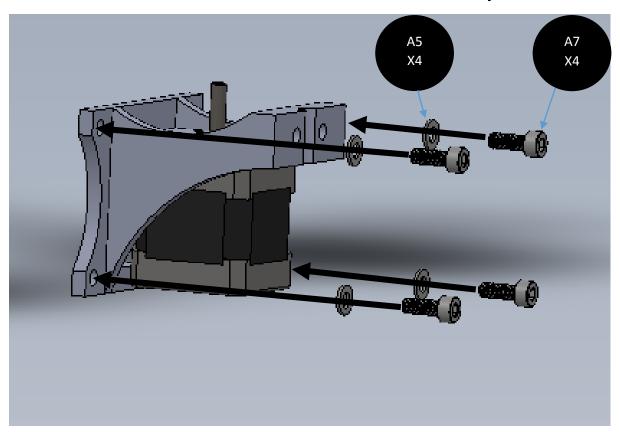
Y Belt Clamp

A - Y Axis Motor Mount Assembly



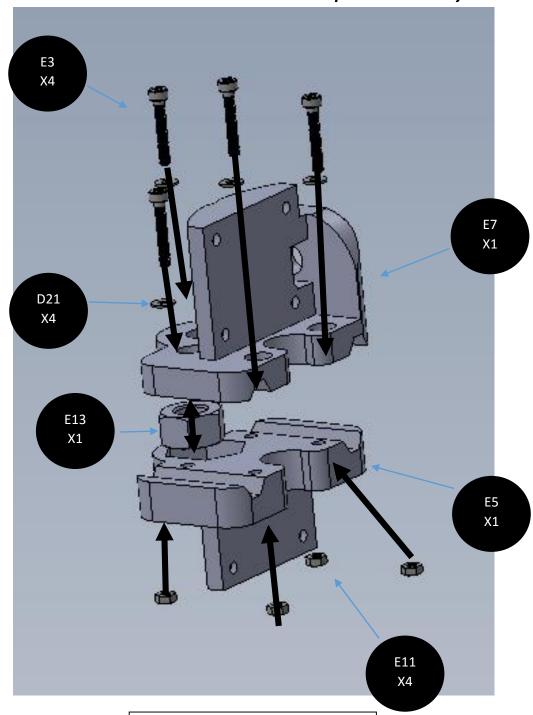
Attach motor (D10) to motor mount using four M3 X 10mm (D20) bolts and four washers (D21)

B – Y Axis motor mount Assembly



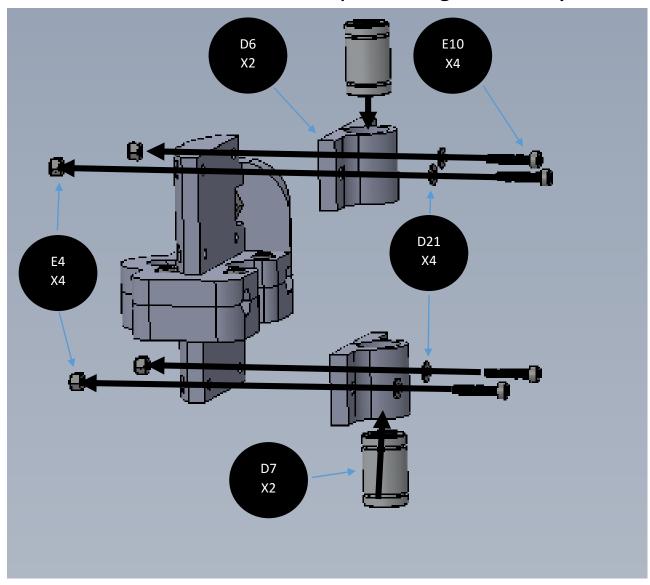
Attach motor mount and motor to the frame assembly using four M5 X 14mm (A7) bolts and four M5 washers (A5)

C – No motor X End Clamp Assembly



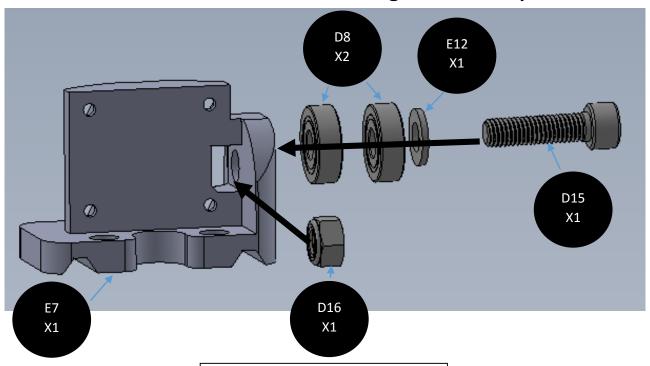
Attach (E5) to (E7) using four M3 X 20 mm (E3) bolts four M3 washer (D21) and four M3 nuts (E11) with acme nut (E13) in the space between them.

D – Non motor clamp bearing Assembly



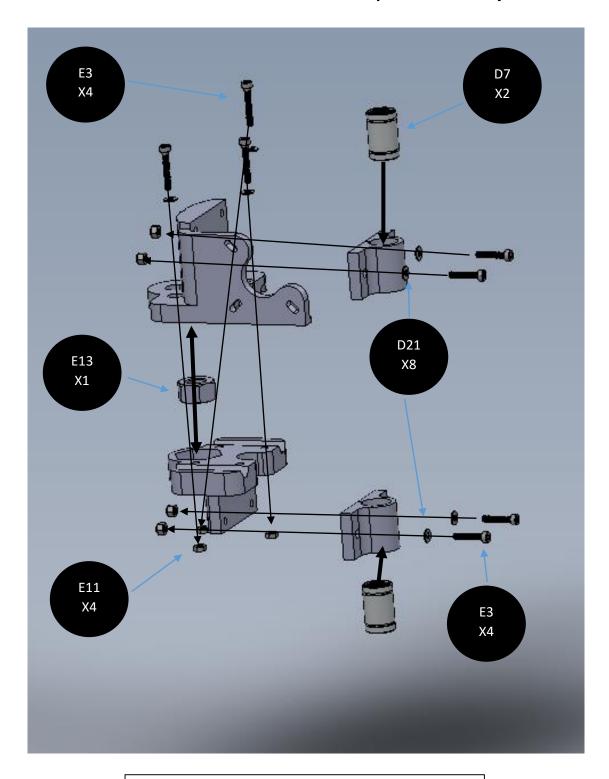
Insert bearings (D7) into holder (D6) then attach both to (E5) and (E7) using four M3 X 20 mm (E10) bolts four M3 washers (D21) and four lock nuts (E4)

E – Non motor Belt Bearings Assembly



Attach bolt (D15) to (E7) using a washer (E12) and two bearings (D8) securing with lock nut (D16)

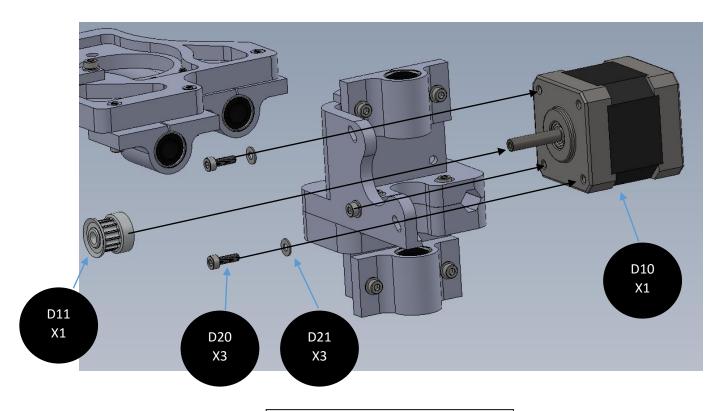
F – Motor End Rod Clamp Assembly



First attach (E5) to (E7) using four M3 X 20 bolts (E3), four washers (D21) and four M3 nuts (E11)

Next slide bearings (D7) to bearing holder (D6) and attach both holders to (E5) and (E7) with four (E3) bolts four washers (D21) and four M3 nuts (E11)

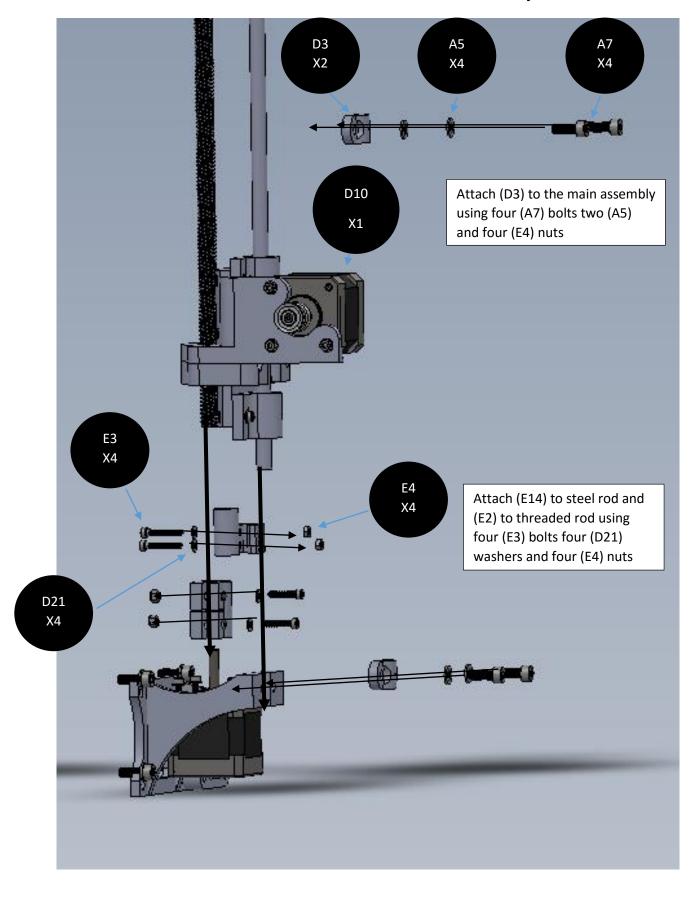
G – Motor End Motor Assembly



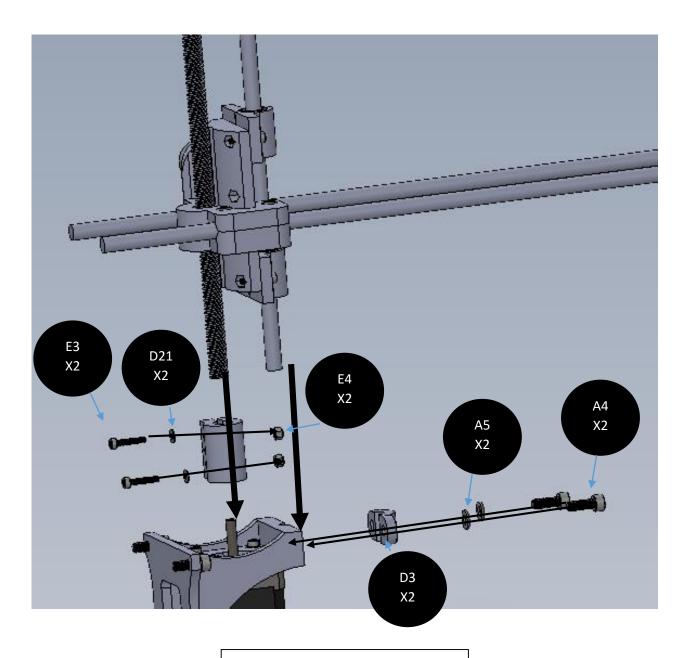
Attach motor (D10) to assembly with two (D20) bolts and two M3 washers (D21)

Next slide (D11) onto motor axle and secure with hex nut

H- Y Axis Motor Rod Assembly

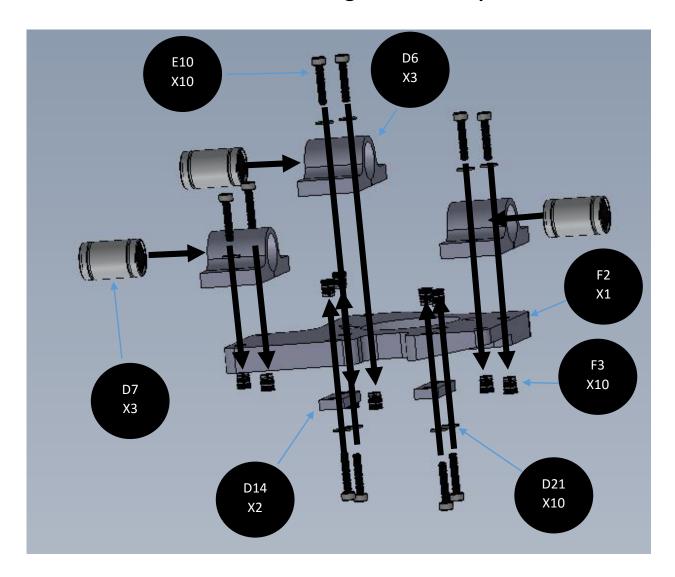


I - Y axis non motor Rod assembly



Attach (D3) and (E2) on the other end of the assembly using same hardware

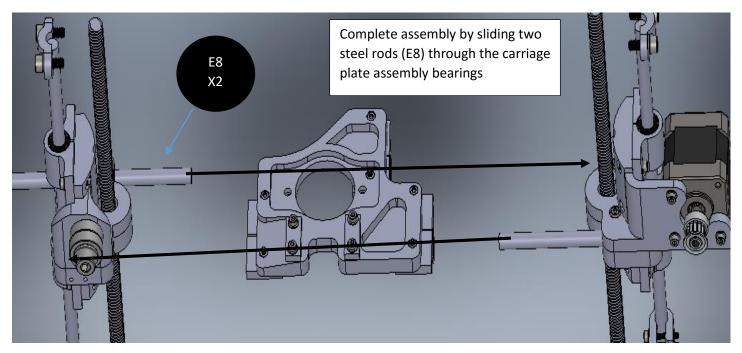
J - X Carriage Assembly



First slide bearings (D7) into holder (D6), next attach holder to plate (F2) using six (E10) bolts, six (D21) washers and six (F3) nuts

Next attach (D14) to the bottom of plate (F2) using four (E10) bolts four (D21) washers and four (F3) nuts

K - X Carriage Rod assembly



Complete Assembly

