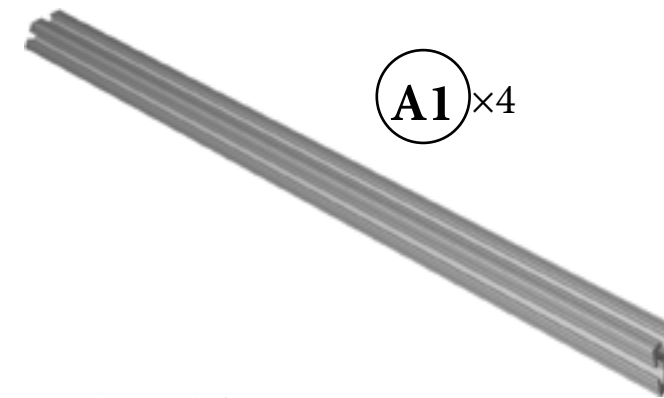


Milestone 1 Building Instructions

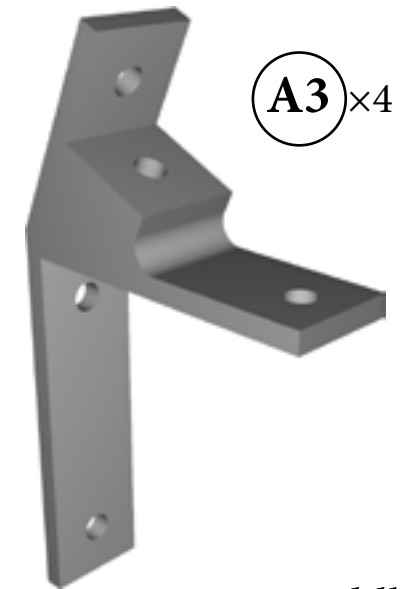
Ryan Brody
Anthony Caffaro
Robin Cross
Aimee Lam
Ava Mistry
Patrick Stevenson
Rachelle Walter

A - Short End of Base (with Motor): Parts



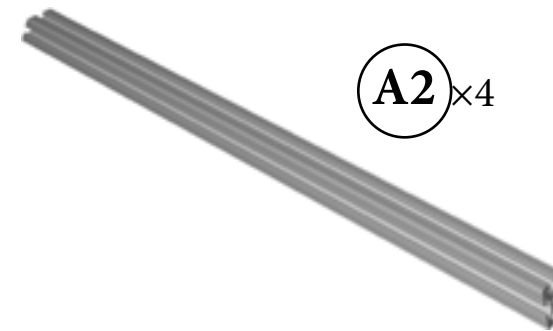
A1×4

T-slotted frame (300x20 mm)



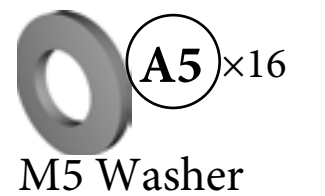
A3×4

Lower vertex middle



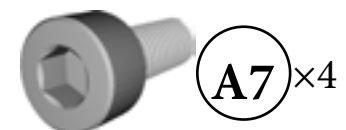
A2×4

T-slotted frame (265x20 mm)



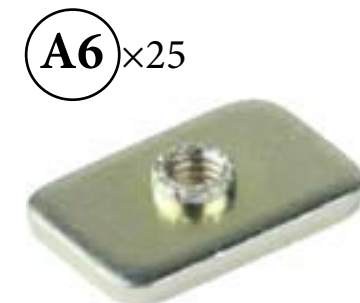
A5×16

M5 Washer



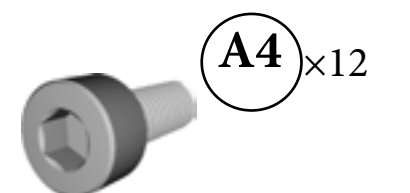
A7×4

M5x14 Bolt



A6×25

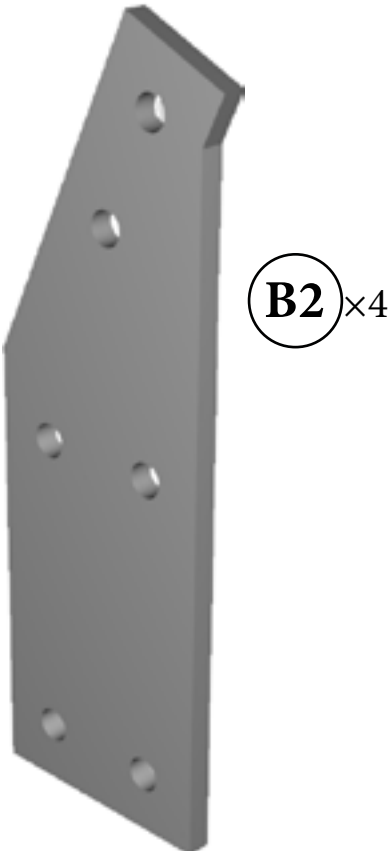
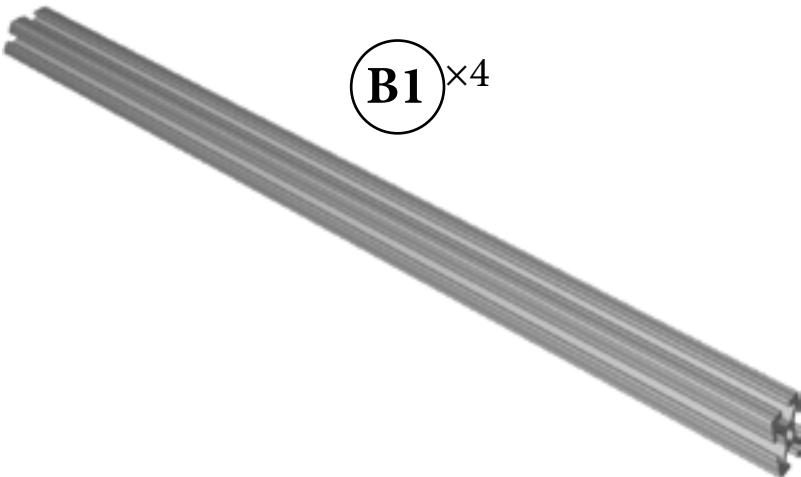
T-nut



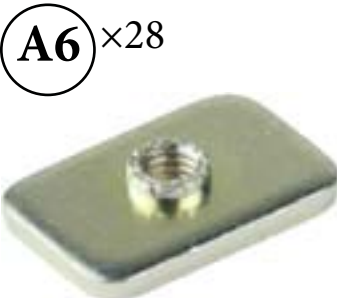
A4×12

M5x10 Bolt

B - Long End of Base: Parts



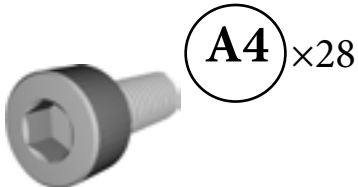
Lower vertex left/right



T-nut

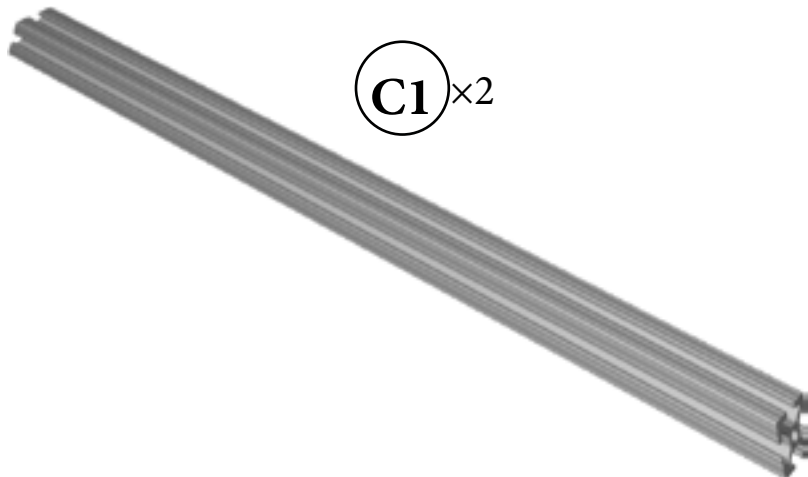


M5 Washer

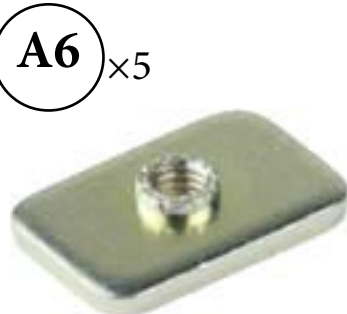


M5x10 Bolt

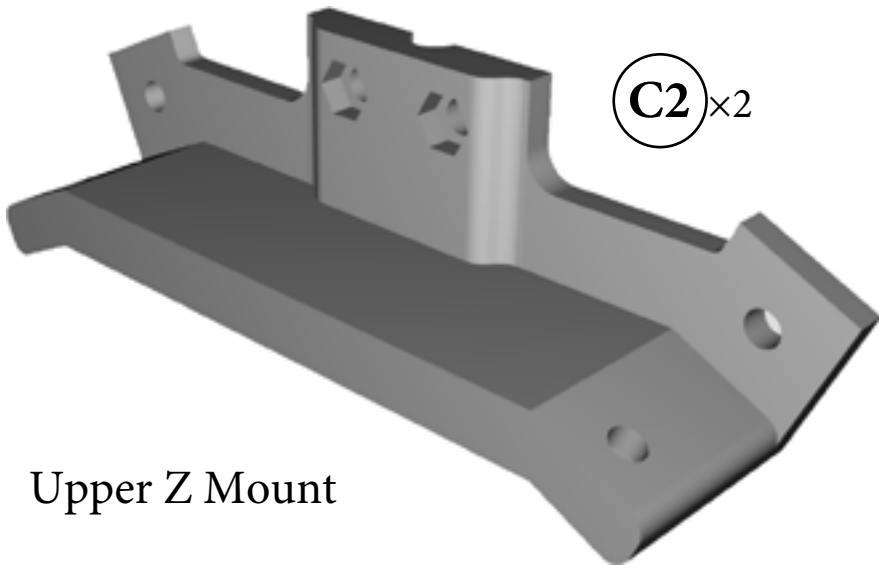
C - Top of Frame: Parts



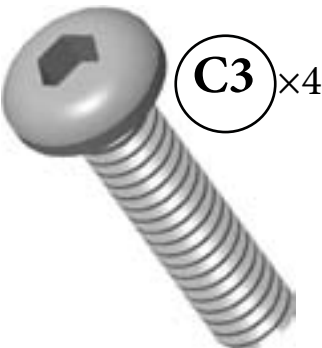
T-slotted frame (385x20 mm)



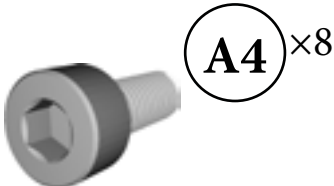
T-nut



Upper Z Mount



Button head M5x16 Bolt

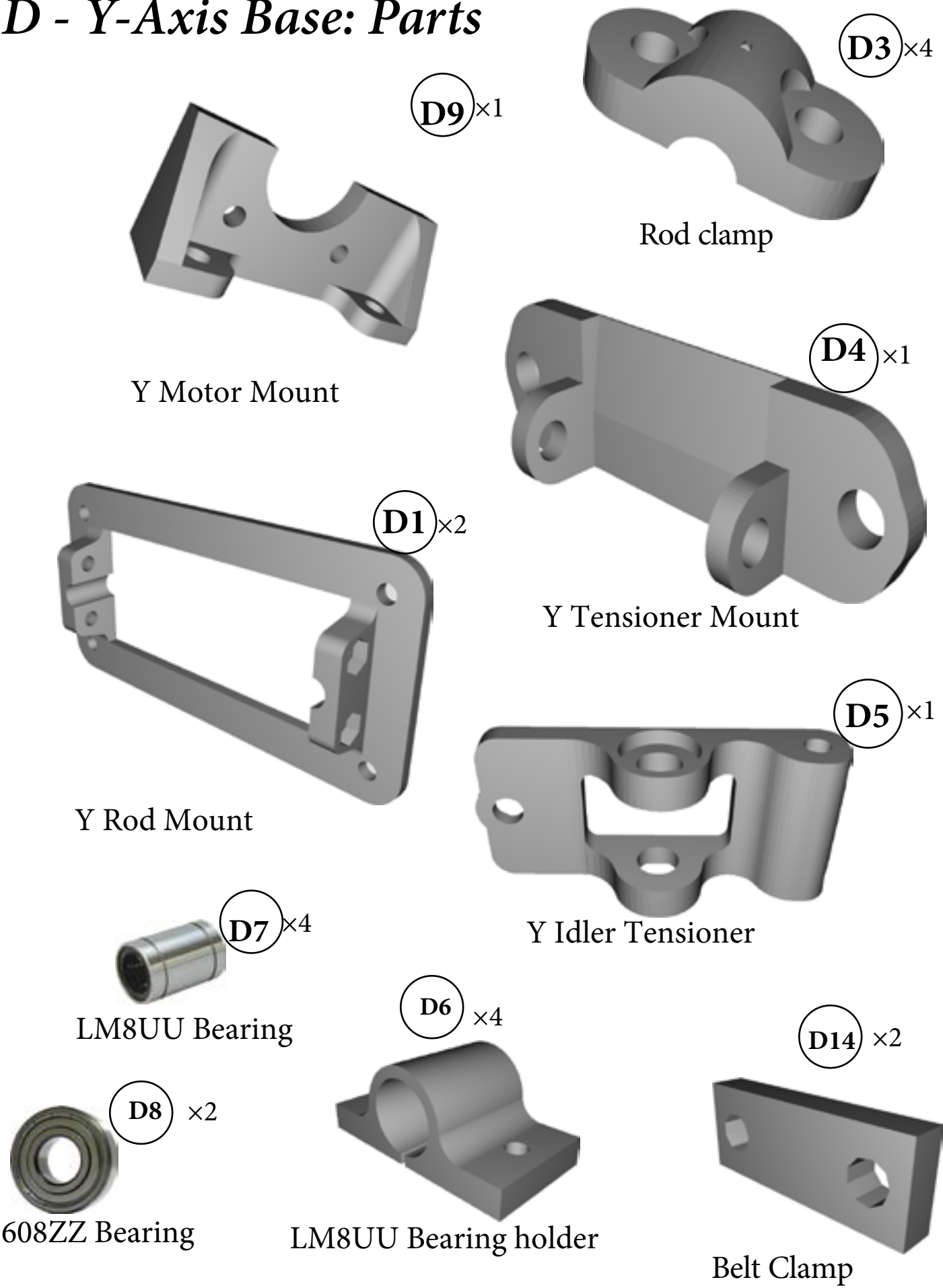


M5x10 Bolt

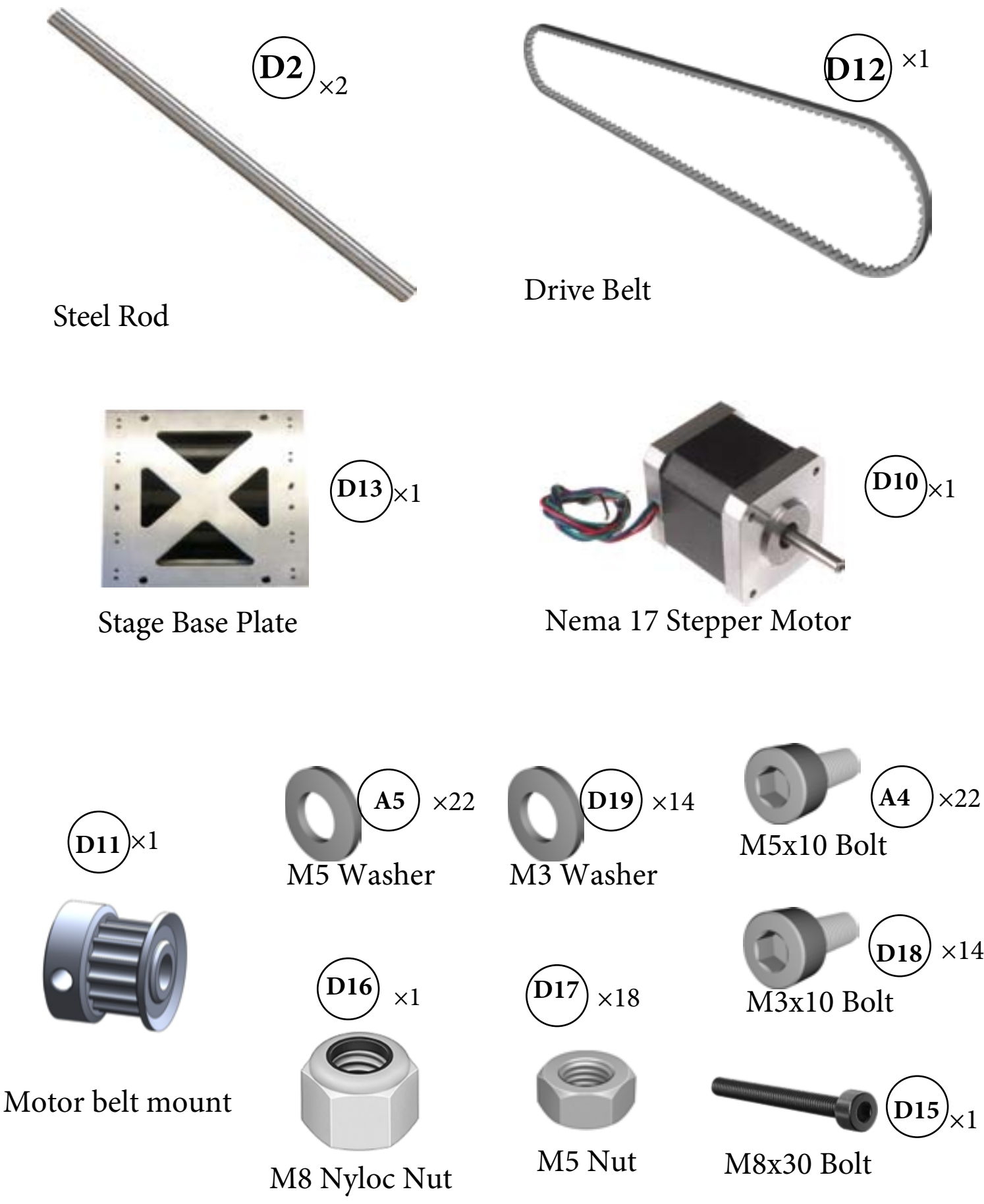


M5 Washer

D - Y-Axis Base: Parts

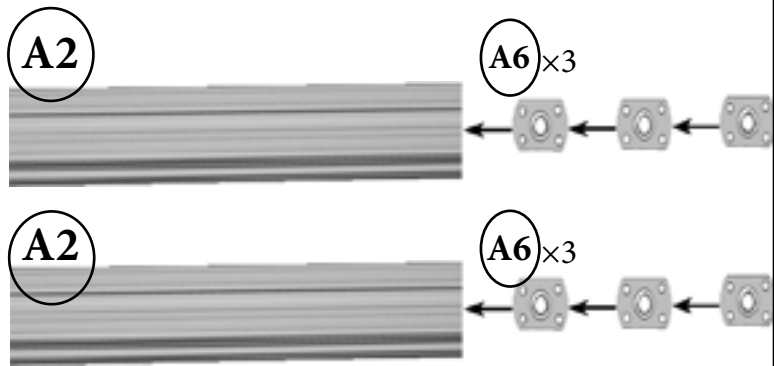


D - Y-Axis Base: Parts (cont.)



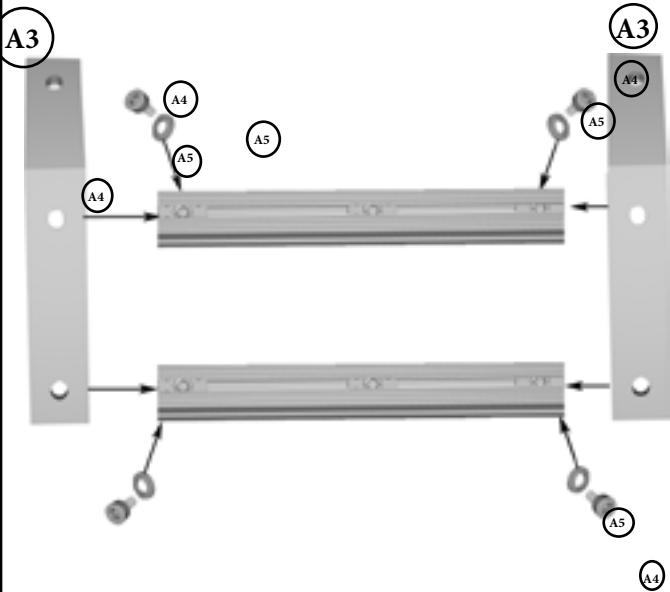
A - Short End of Base: Assembly

Step 1: Motor end

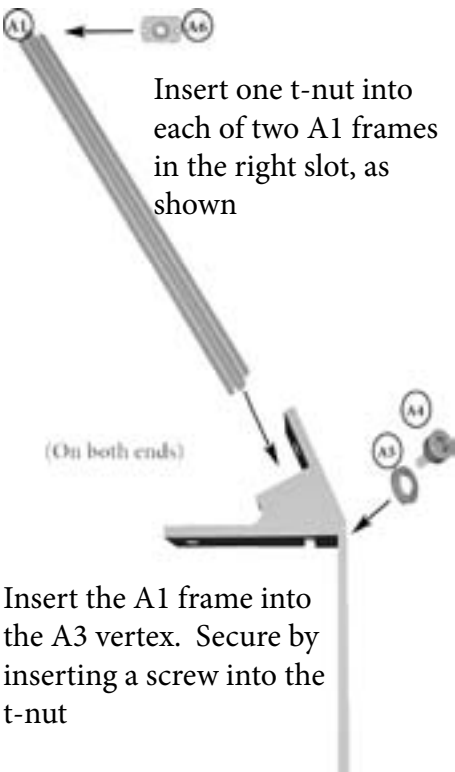


Insert three t-nuts into each of two A2 frames

Attach each A2 frame from 1 to the each A3 vertex from 2. Secure with screws.



1



Insert one t-nut into each of two A1 frames in the right slot, as shown

(On both ends)

Insert the A1 frame into the A3 vertex. Secure by inserting a screw into the t-nut

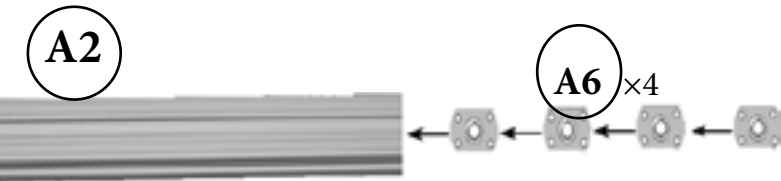
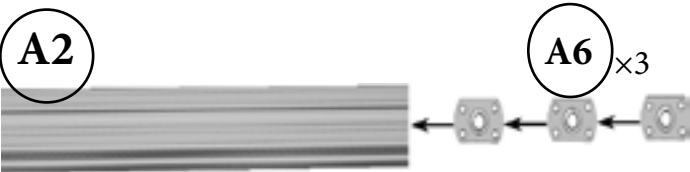
2

3

A - Short End of Base: Assembly

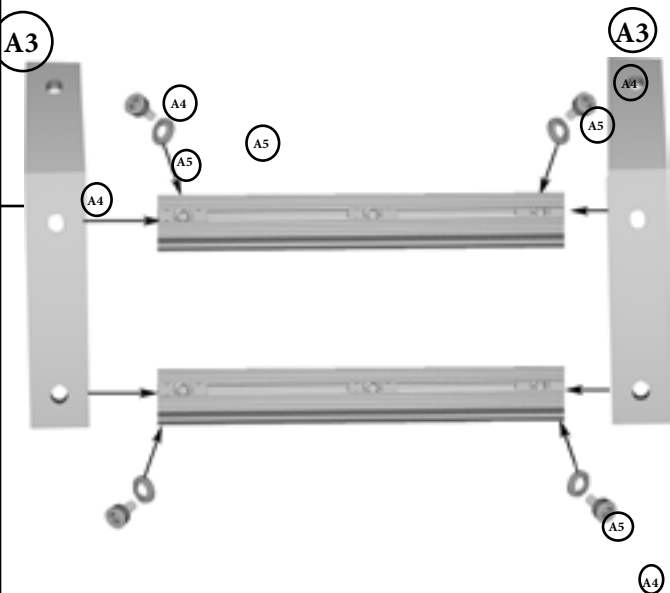
Step 2: Idler mount end

Insert three t-nuts into one A2 frame

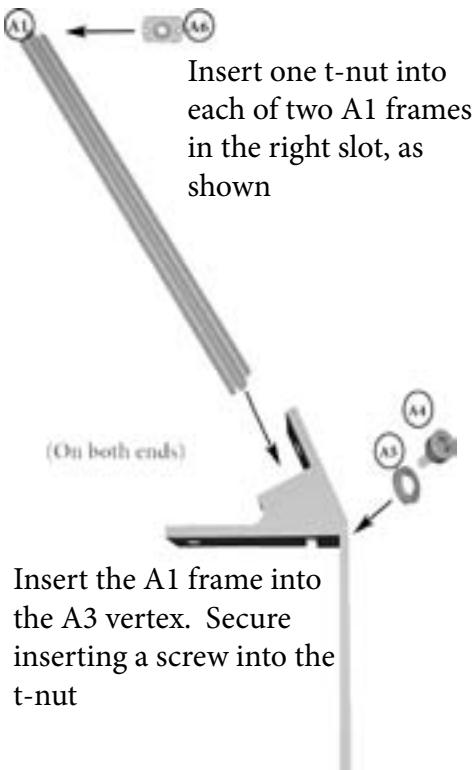


Insert four t-nuts into one A2 frame.

Attach each A2 frame from 4 to the each A3 vertex from 5. Secure with screws.



4



Insert one t-nut into each of two A1 frames in the right slot, as shown

(On both ends)

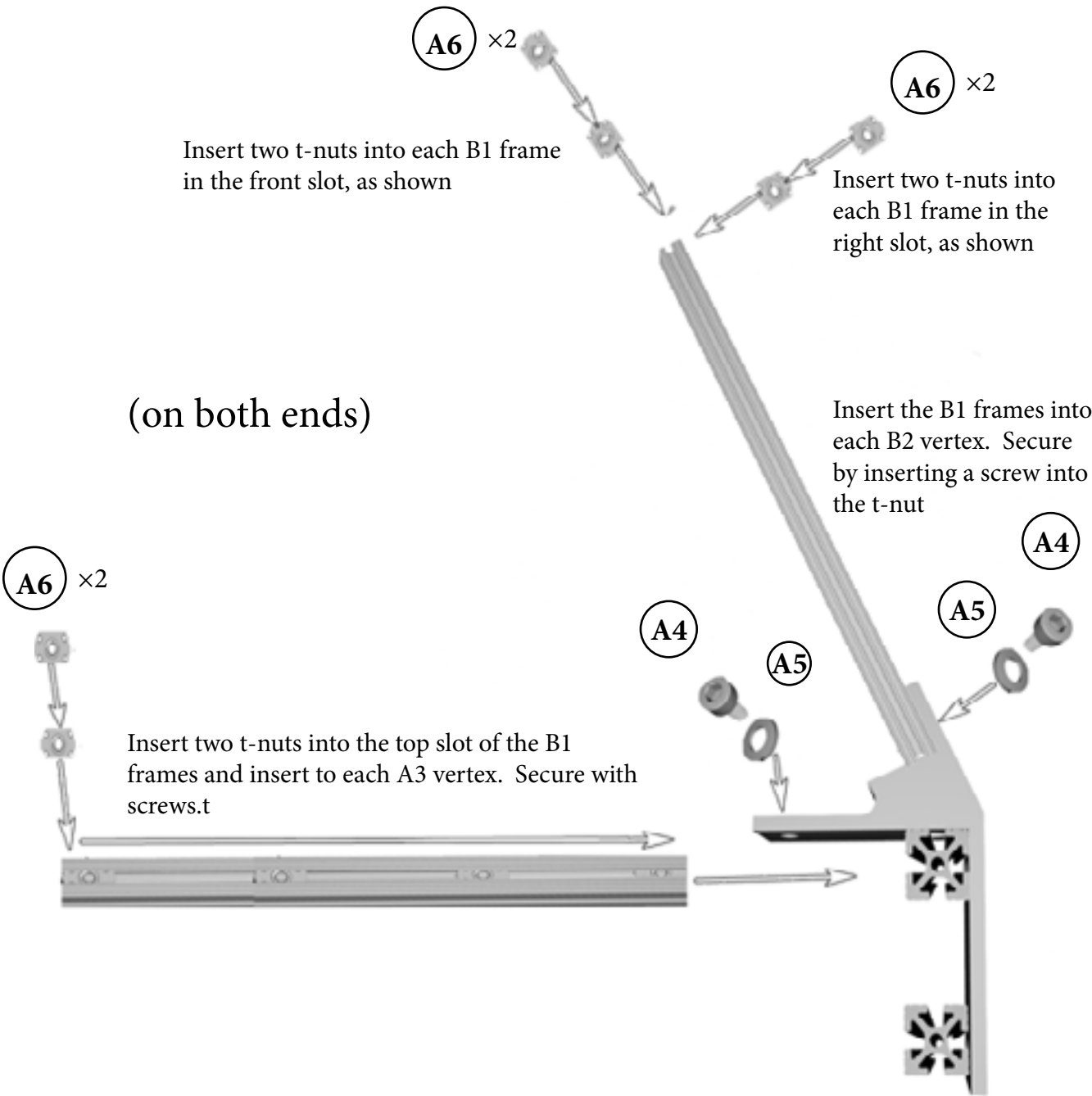
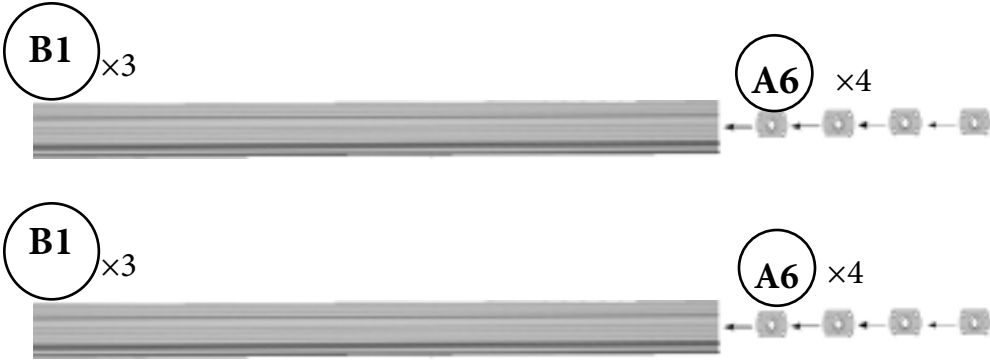
Insert the A1 frame into the A3 vertex. Secure inserting a screw into the t-nut

5

6

B - Long End of Base: Assembly

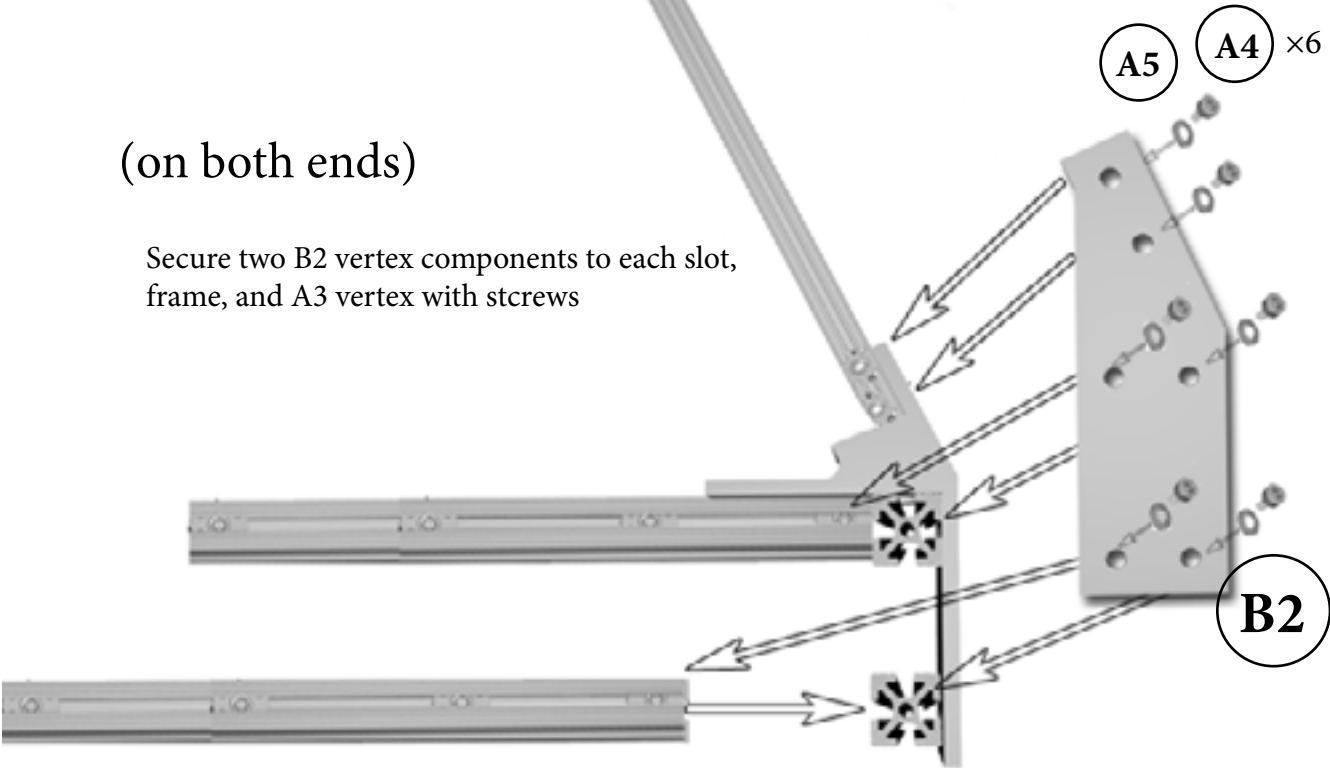
(on both ends) Insert four t-nuts into each B1 frame



B - Long End of Base: Assembly

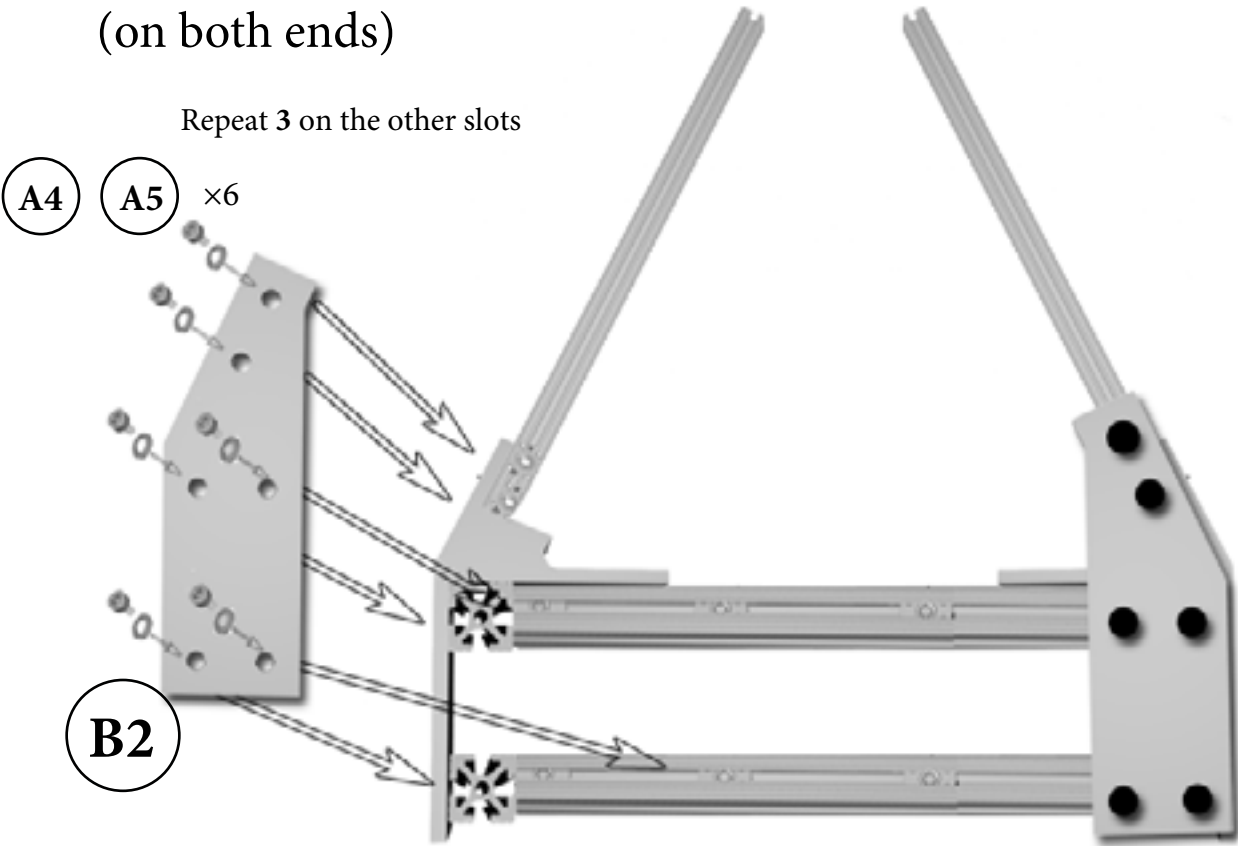
(on both ends)

Secure two B2 vertex components to each slot, frame, and A3 vertex with screws



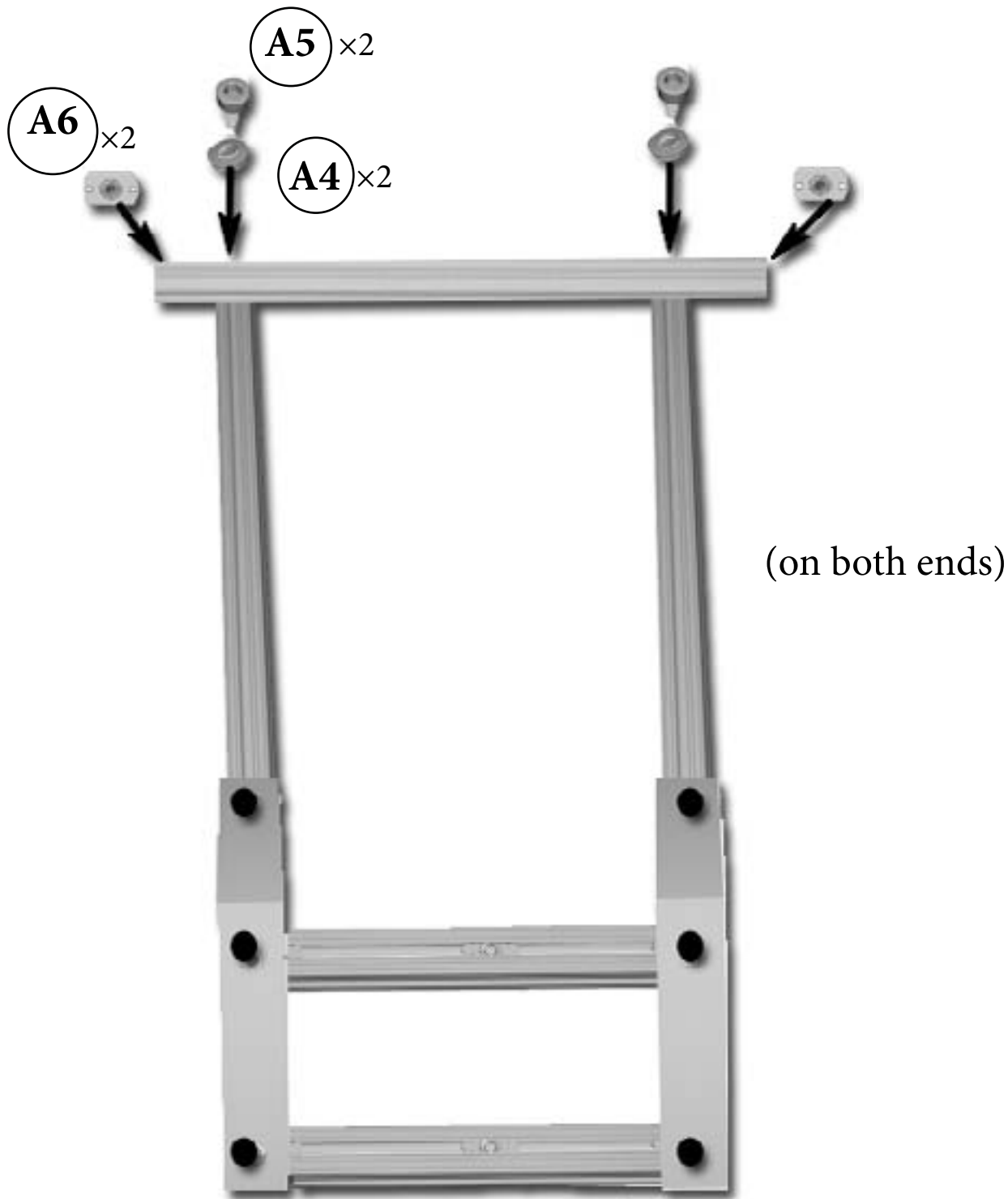
(on both ends)

Repeat 3 on the other slots



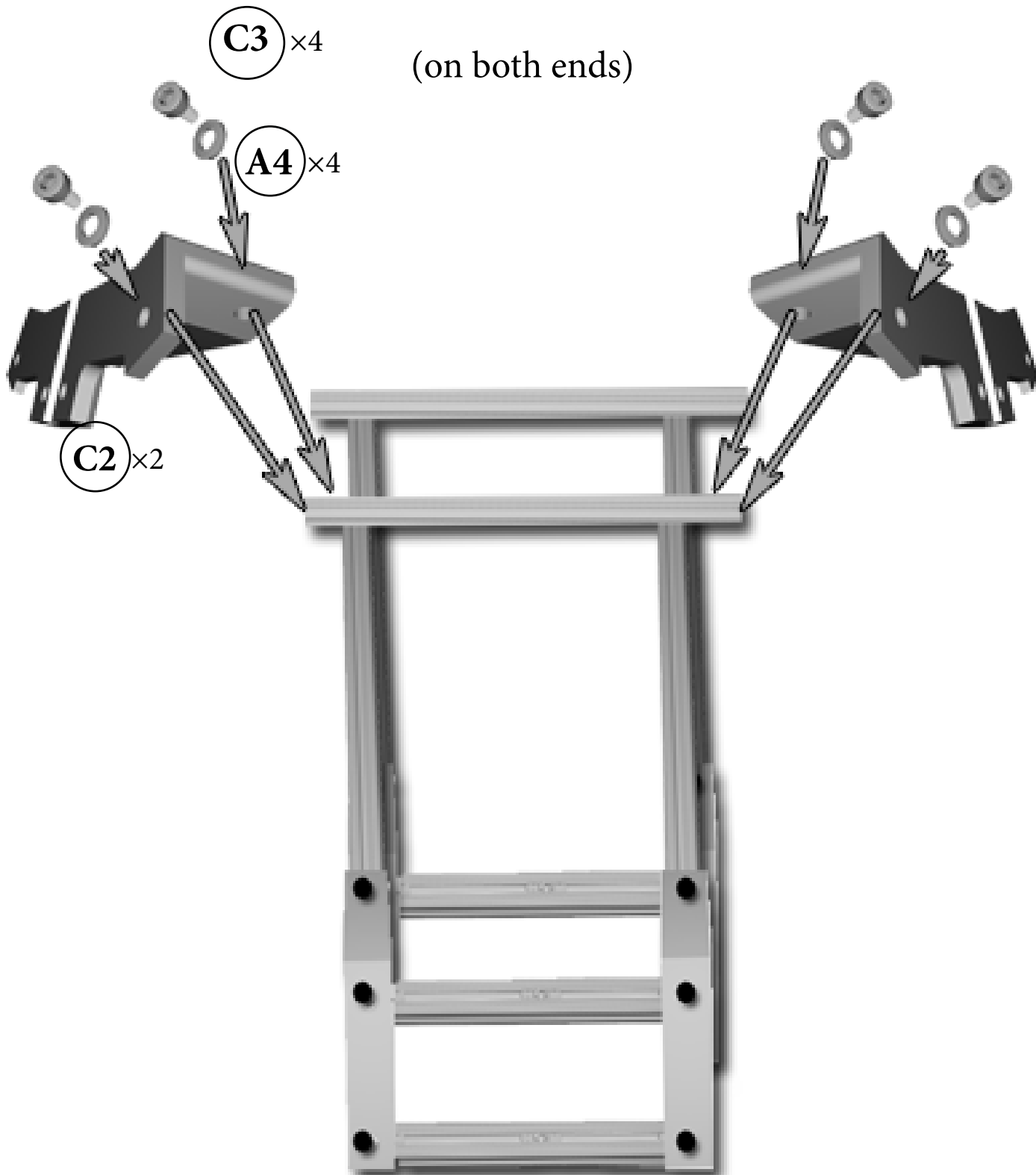
C - Top of Frame: Assembly

Secure a C1 frame to the top of each end with screws. Insert two t-nuts into the outer slot of each frame.



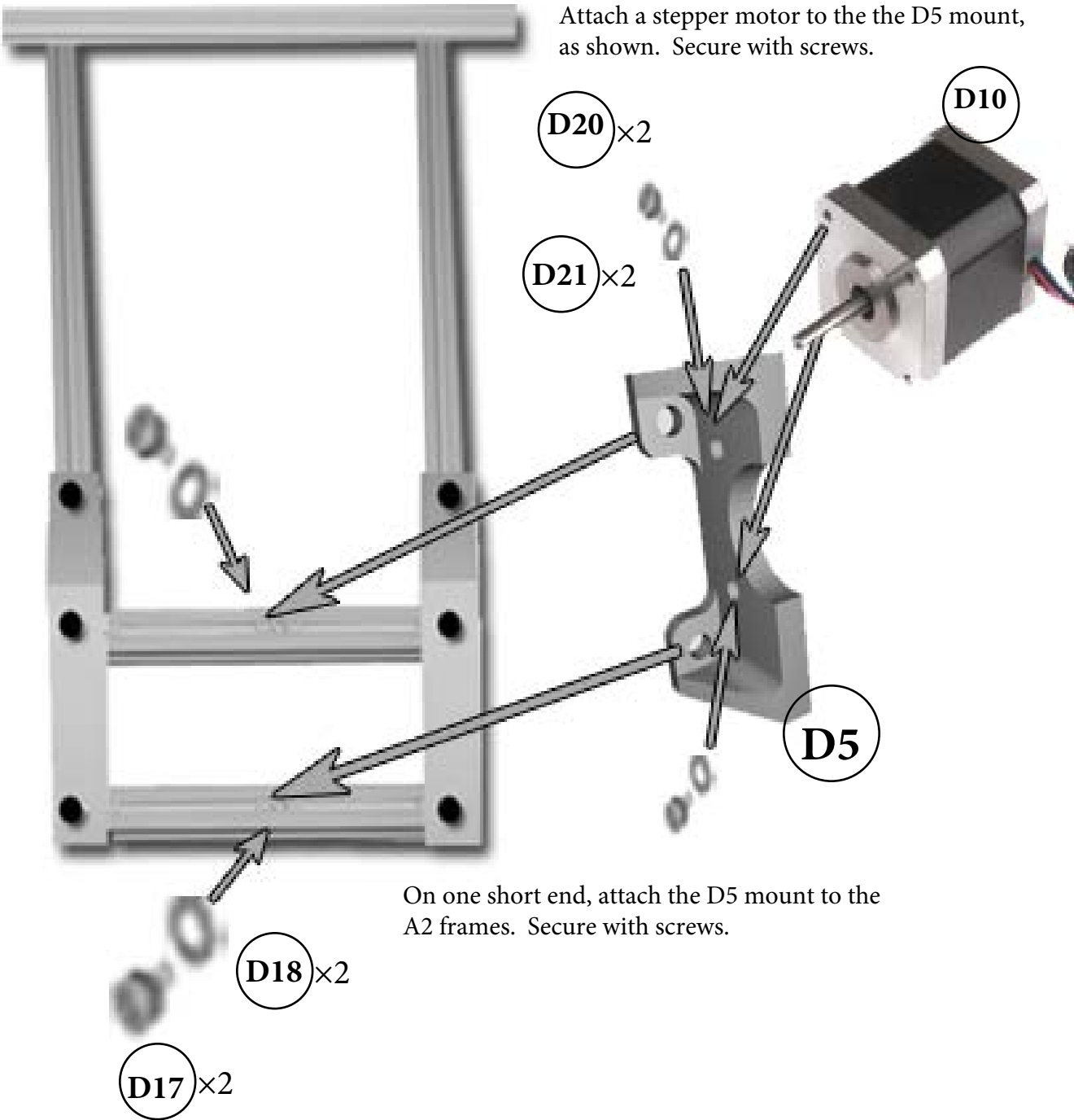
C - Top of Frame: Assembly

Attach a C2 mount to the top of each end. Secure with screws



D - Y-axis base: Assembly

Step 1: Motor end

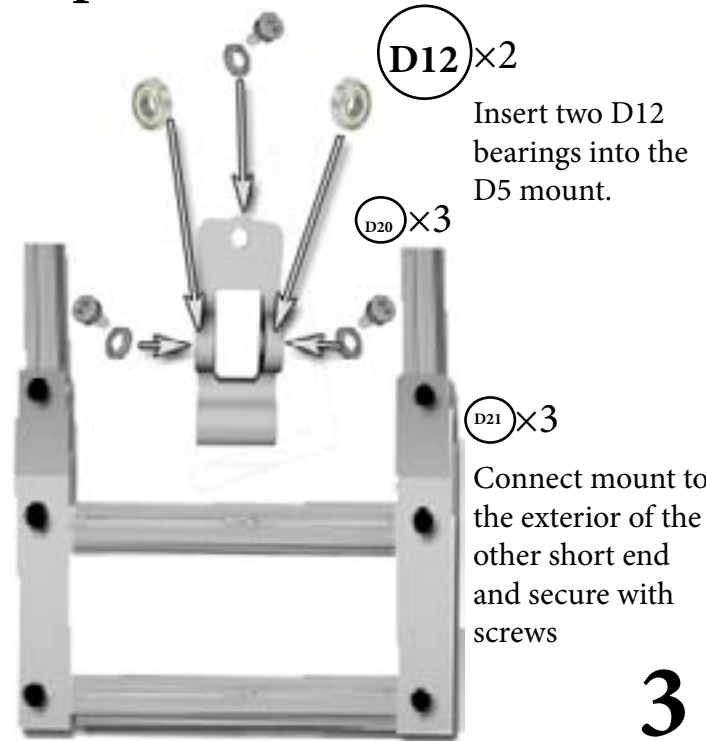


1

D - Y-axis base: Assembly

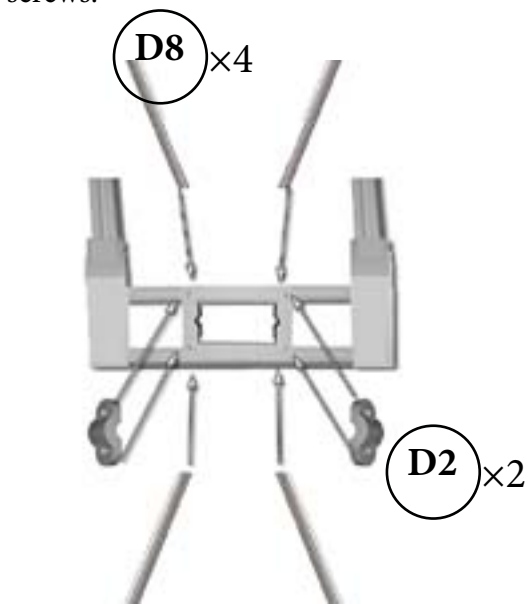
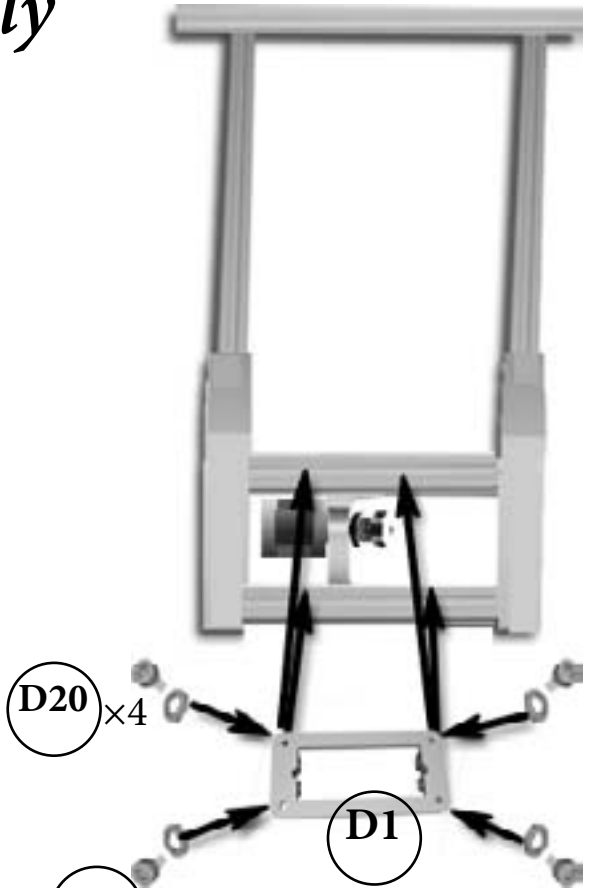


Step 2: Idler Mount end



2

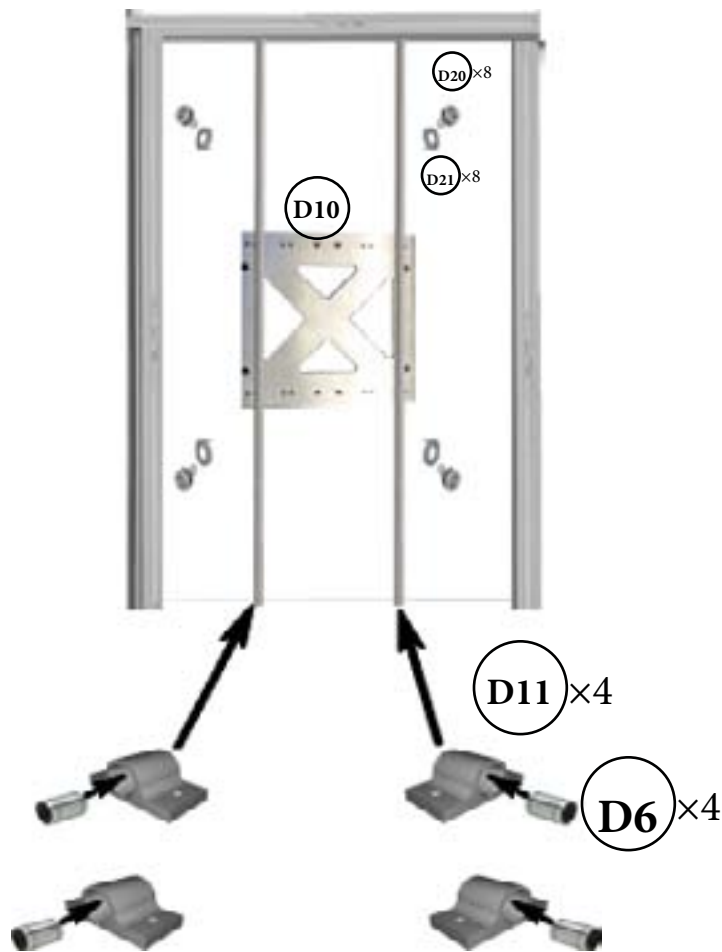
3



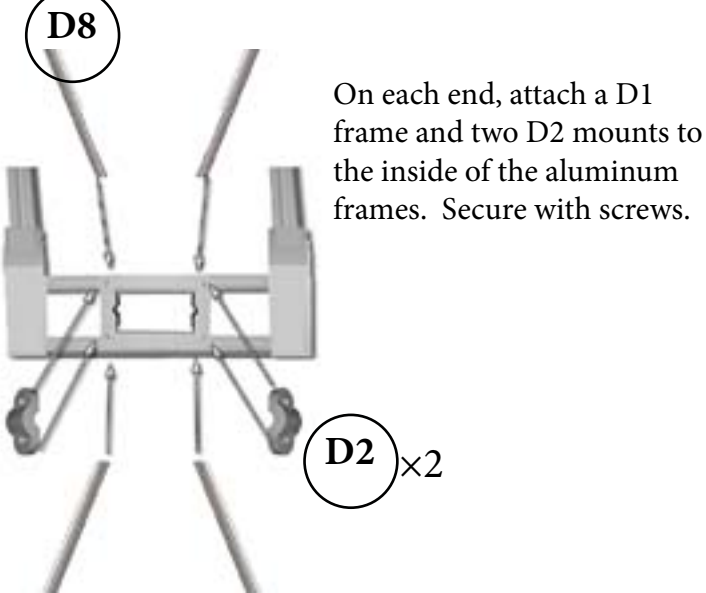
4

D - Y-axis base: Assembly

Place the D10 plate On the bottom of the printer, attach each D11 holder



Insert a D6 bearing into each D11 holder. Insert each D8 rod into the bearings



On each end, attach a D1 frame and two D2 mounts to the inside of the aluminum frames. Secure with screws.

Wrap the belt around the bearings and D13 mount. Attach the belt to the D10 plate with two D7 clamps and secure with screws

