

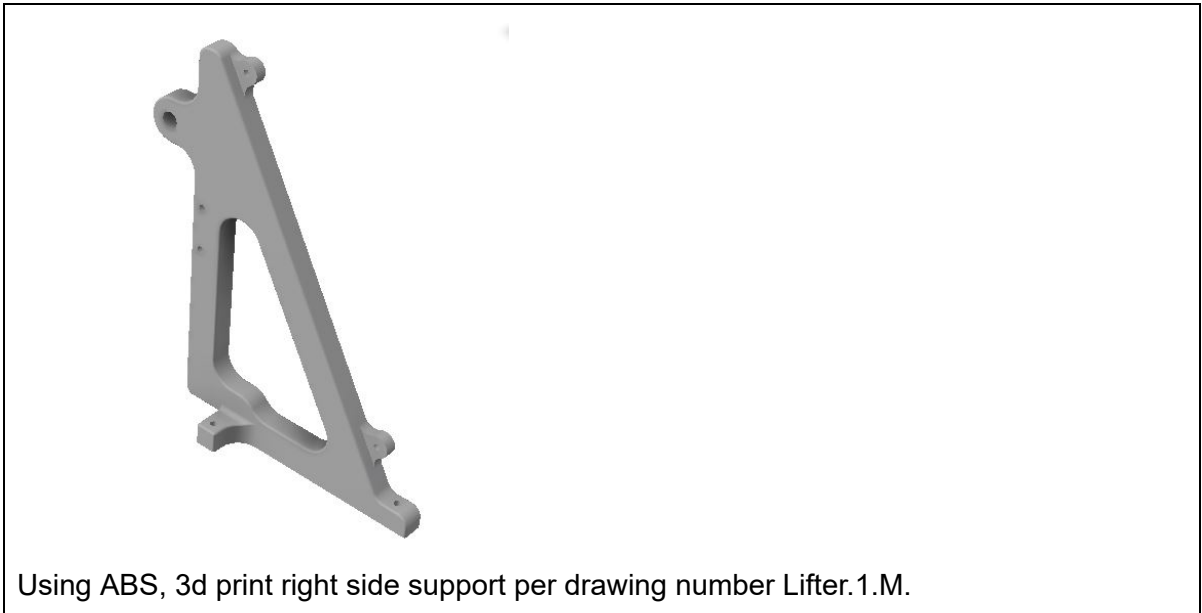
9.0 How to Build the Glyph Lifter

Step 1 Buy the parts listed below:

<u>Quantity</u>	<u>Item</u>	<u>Price</u>
1	ABS 3D printing filament (price varies - \$25.00/roll)	\$25.00
1	3/8" polywall, 12"x12"	
1	Servocity, 6mm axle, 12" long (cut to 5.25")	
4	Ace Hardware Nylon Spacers	\$00.10
2	Servocity Face Tapped Clamping Hubs, 0.77" Pattern	\$5.99
1	CM-785HB Servo and Gearbox Assembly Gear Ratio 3.8:1	\$129.98
--	Misc bolts and nuts	

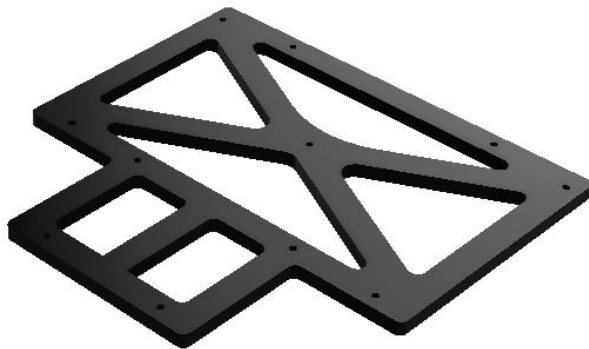
Total cost

Step 2 Manufacture the parts shown below.

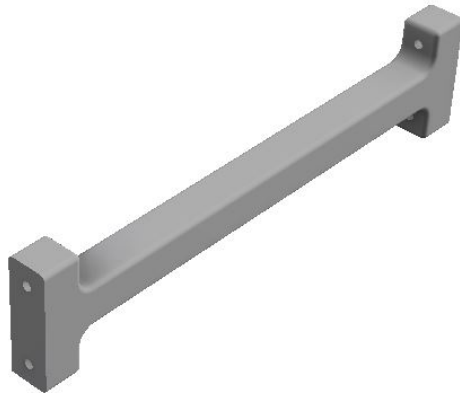




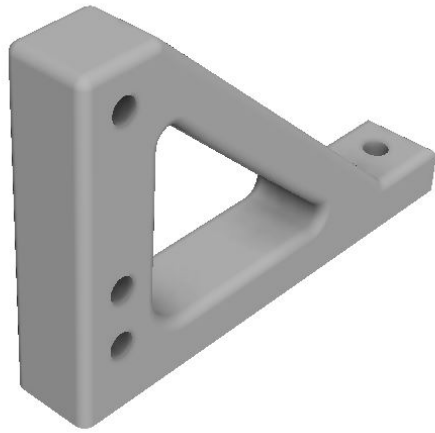
Using ABS, 3d print left side support per drawing Lifter.2.M



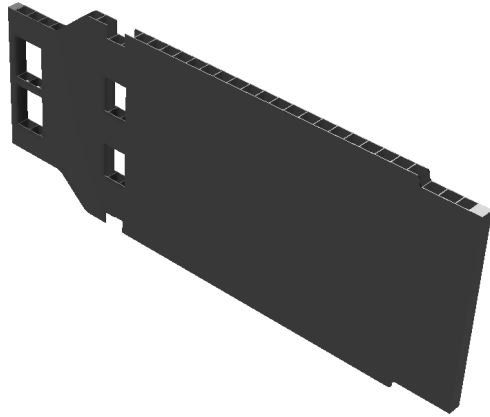
Using ABS, 3d print bottom support plate per drawing Lifter.3.M.



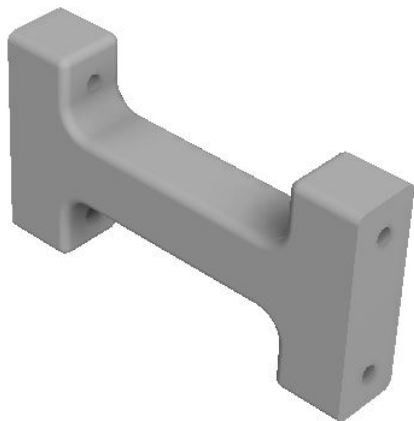
Using ABS, 3d print I-beam support per drawing Lifter.4.M



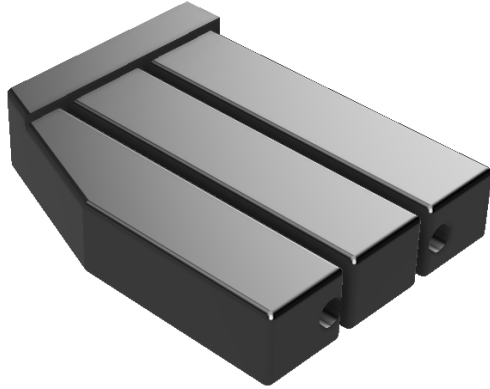
Using ABS, 3d print two copies backplate support Lifter.5.M



Cut 6"x13" polywall per drawing Lifter.6.M



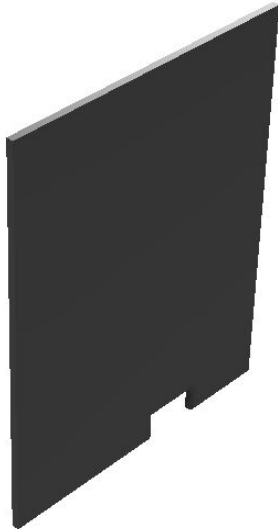
Using ABS, 3d print small I-beam support per drawing number Lifter.7.M.



Using ABS, 3d print trident axle mount per drawing Lifter.8.M

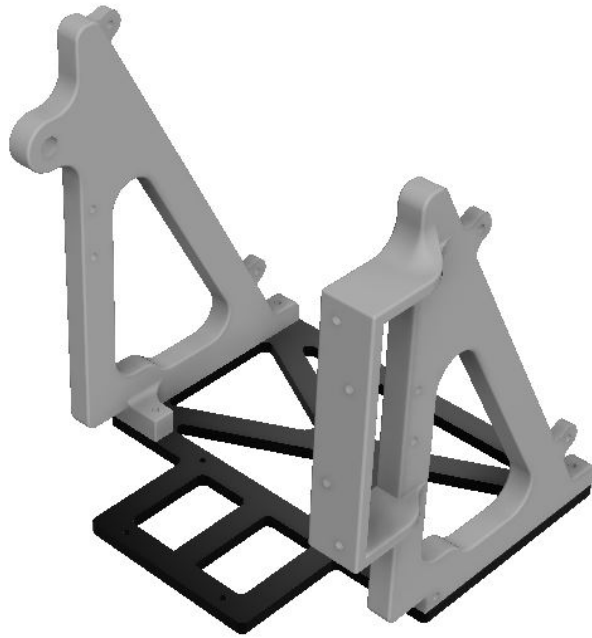


Cut 10.5" axle into two 5.25" segments.

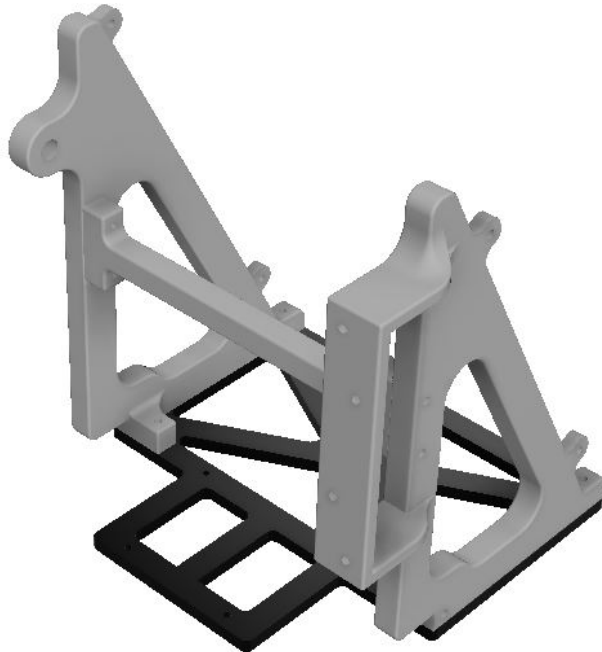


Cut two identical side-wall pieces.

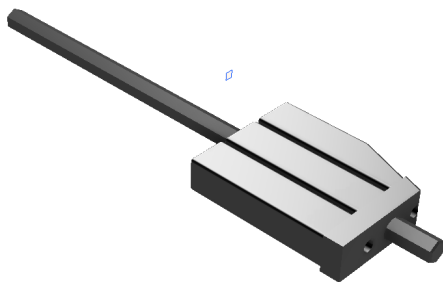
Step 3 Assemble the parts as shown below.



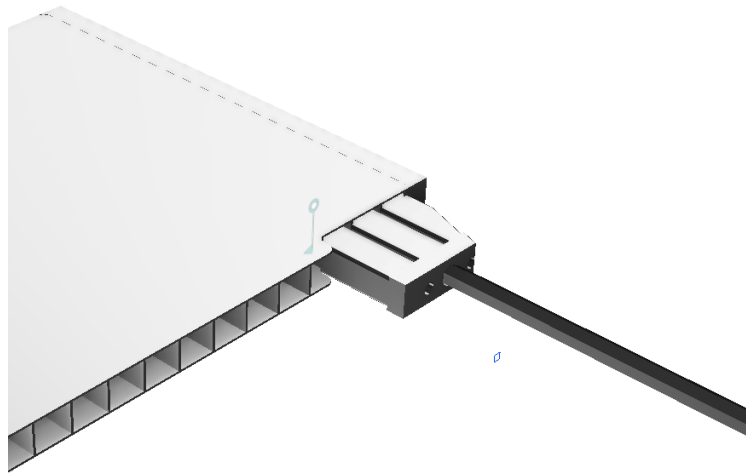
Mount right and left side supports to bottom support.



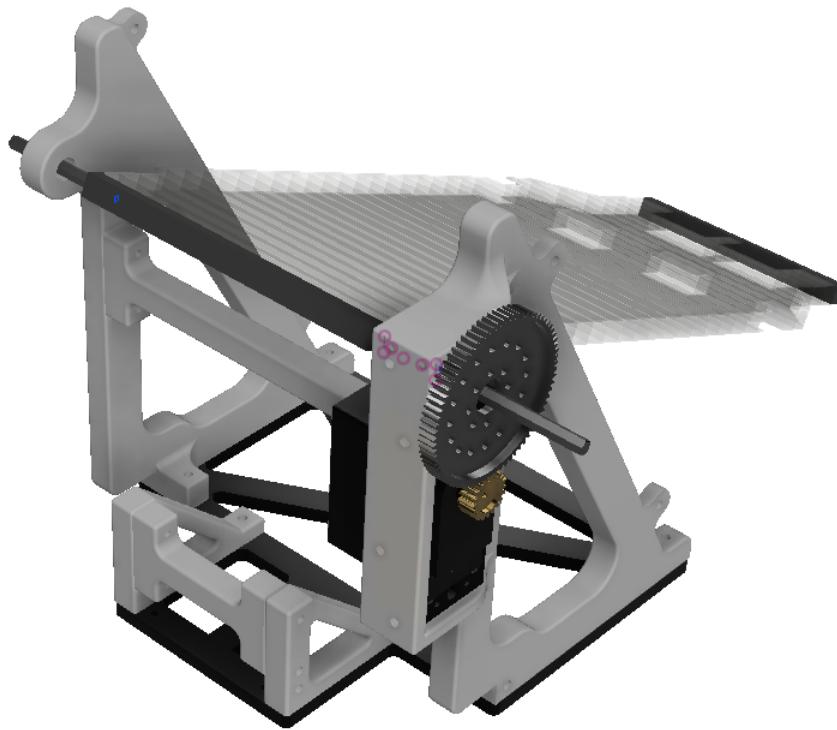
Attach long I-beam support between right and left support.



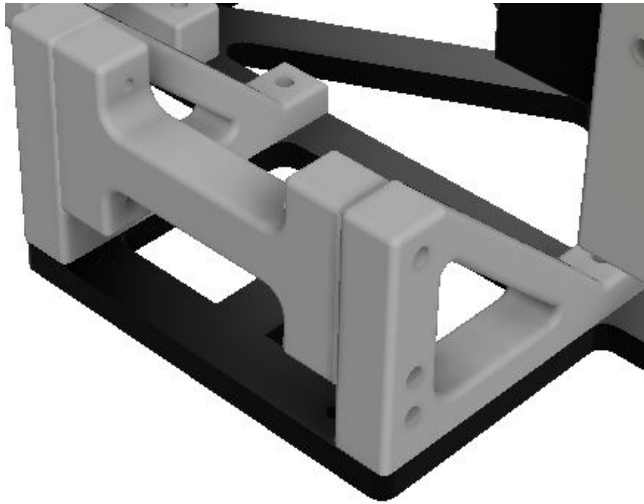
Attach trident support to one 5.25" axle.



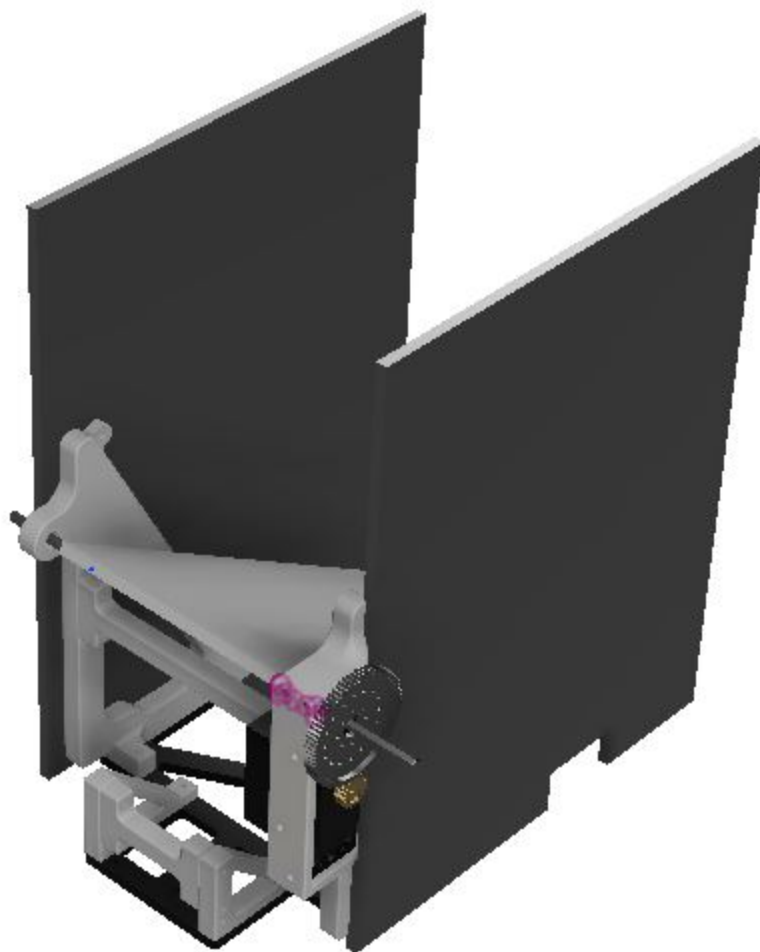
Slide trident and axle into the slots of the polywall.



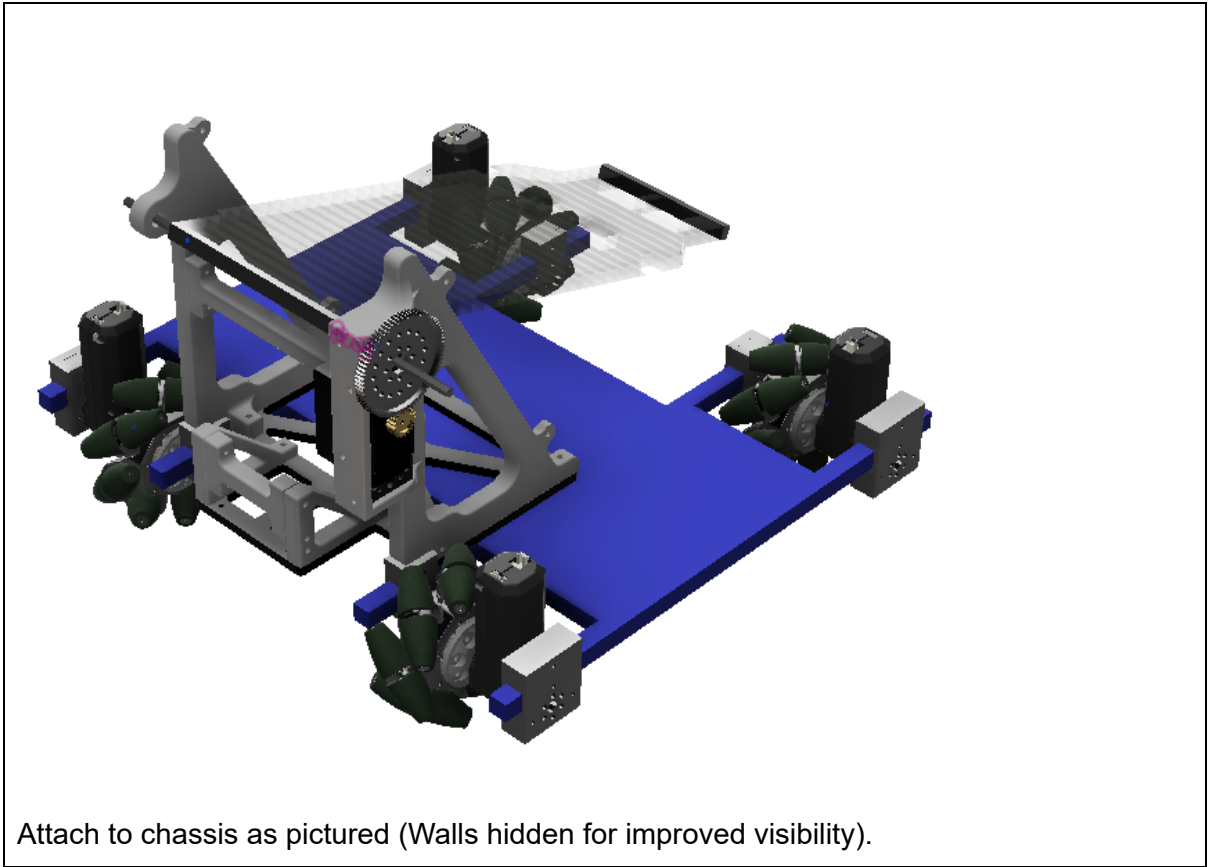
Assemble the polywall plate, axles, and trident support as pictured. Attach motor and gears.



Attach small I-beam between both triangle supports.



Mount right and left side-walls.



Attach to chassis as pictured (Walls hidden for improved visibility).