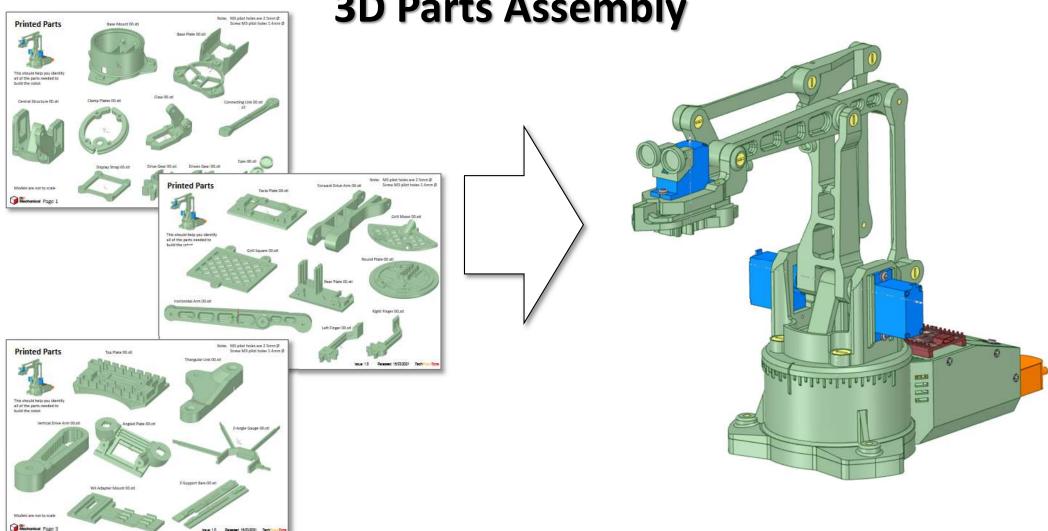
Reach Robot Mk1

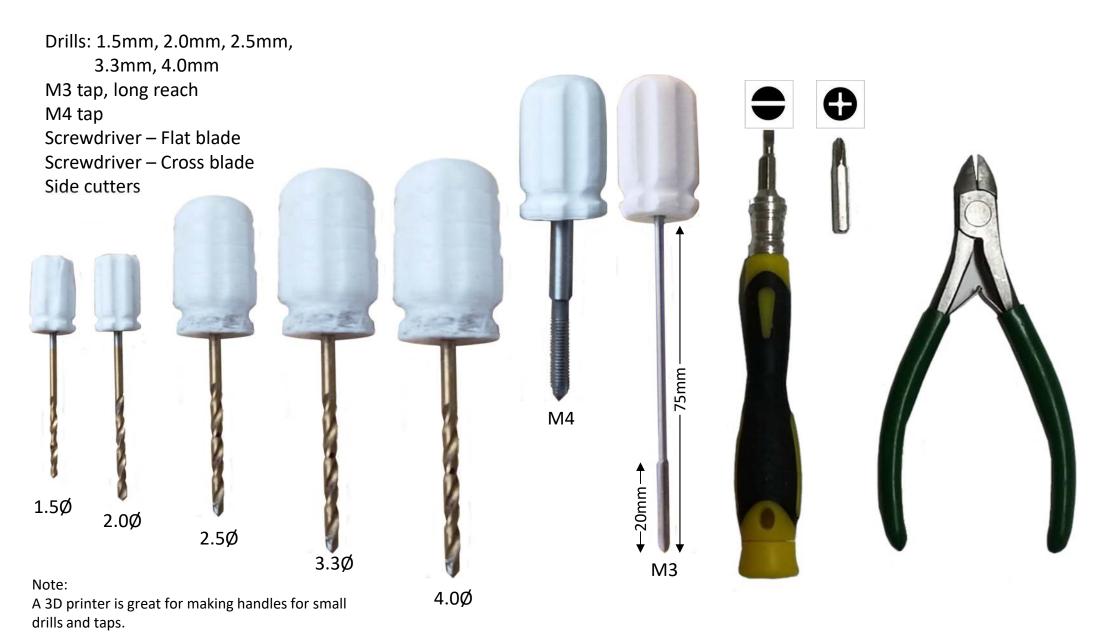
3D Parts Assembly





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Construction - Tools:

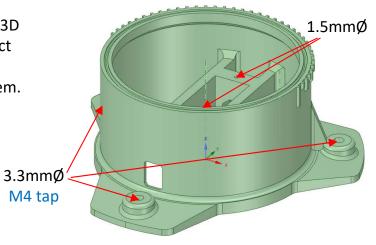




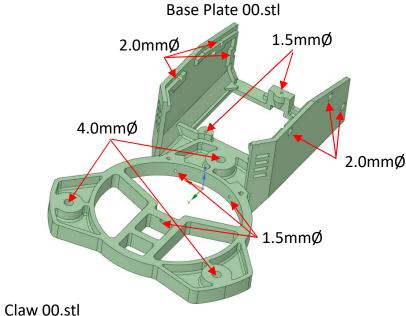
Pilot holes

Ensure that the holes in your 3D printed parts are of the correct diameter, by running the assigned drill size through them.

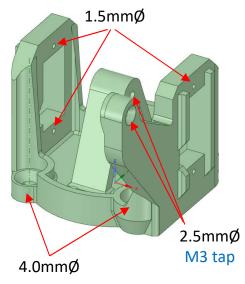
Tap later where specified.



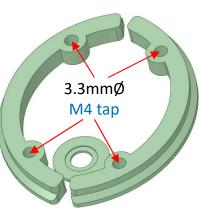
Base Mount 00.stl



Central Structure 00.stl

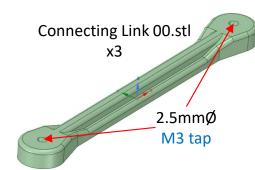


Clamp Plates 00.stl

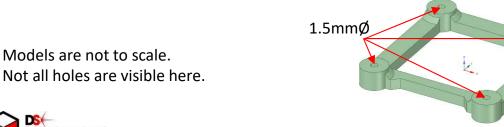


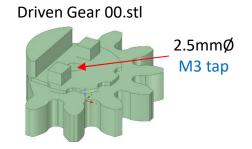
Display Strap 00.stl

2.5mmØ M3 tap 1.5mmØ



Not all holes are visible here.







Forward Drive Arm 00.stl **Pilot holes** 1.5mmØ 2.5mmØ Ensure that the holes in your 3D M3 tap printed parts are of the correct diameter, by running the assigned drill size through them. Tap later where specified. Grill Moon 00.stl 2.0mmØ 2.0mmØ Facia Plate 00.stl Grill Square 00.stl 2.0mmØ Round Plate 00.stl 1.5mmØ 4.0mmØ Rear Plate 00.stl Horizontal Arm 00.stl Right Finger 00.stl Left Finger 00.stl 2.5mmØ M3 tap Models are not to scale. 2.5mmØ Not all holes are visible here. M3 tap Mechanical Page 4

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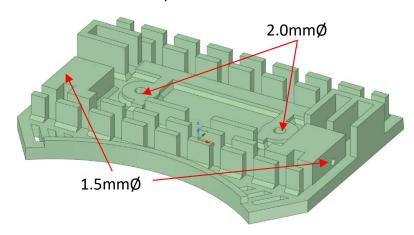
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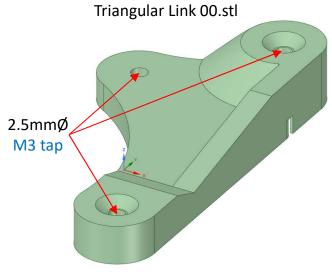
TechKnowTone

Pilot holes

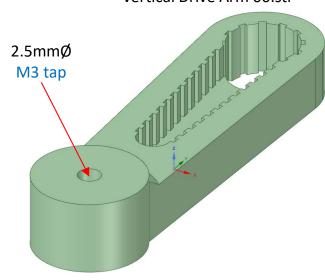
Ensure that the holes in your 3D printed parts are of the correct diameter, by running the assigned drill size through them. Tap later where specified.

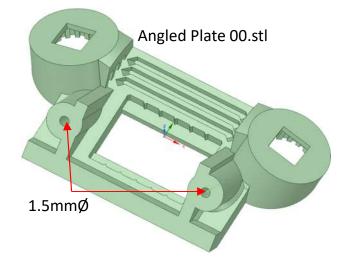
Top Plate 00.stl



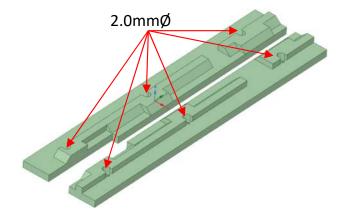


Vertical Drive Arm 00.stl



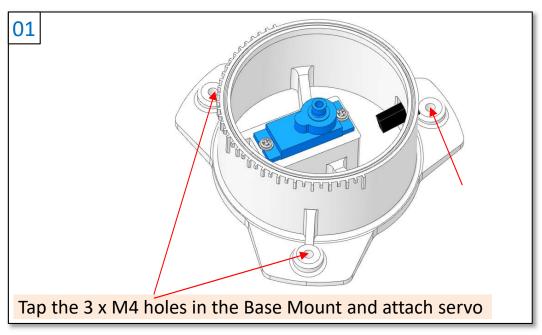


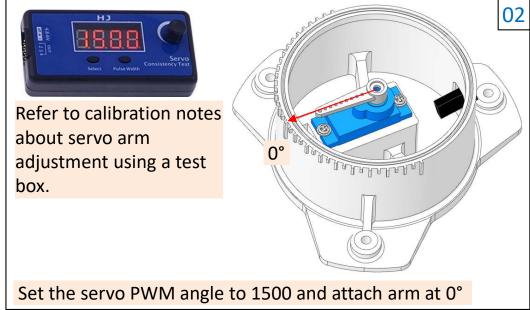
Z-Support Bars 00.stl

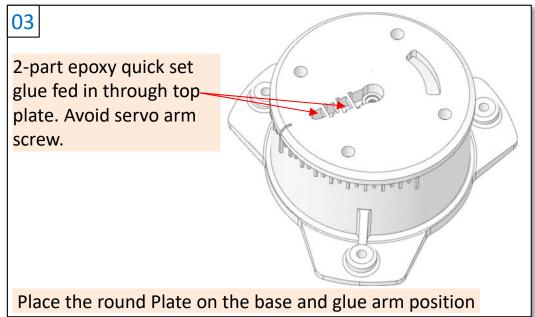


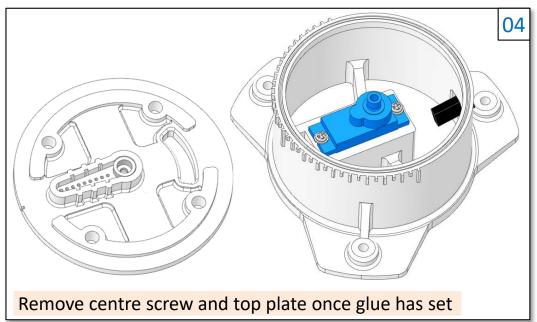
Models are not to scale. Not all holes are visible here.



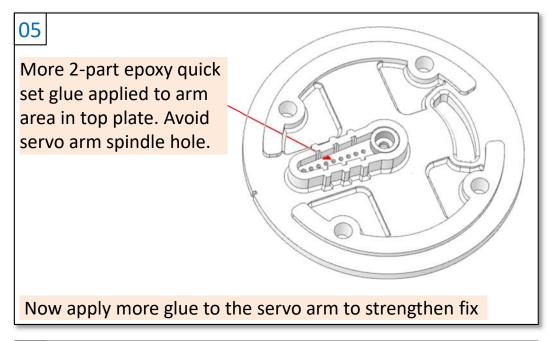


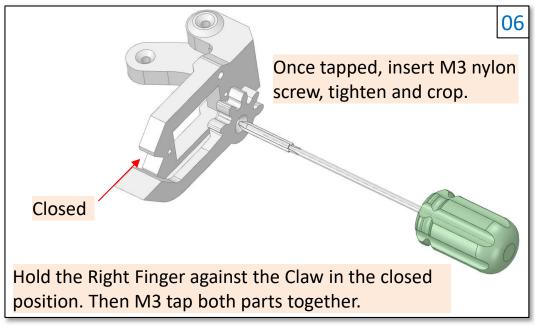


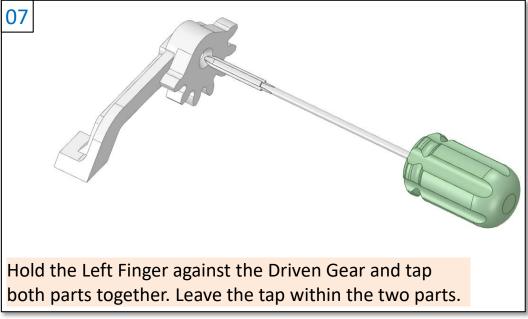


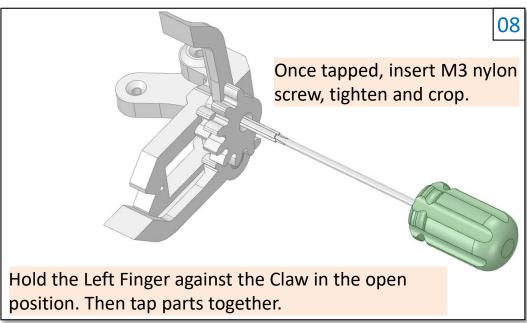


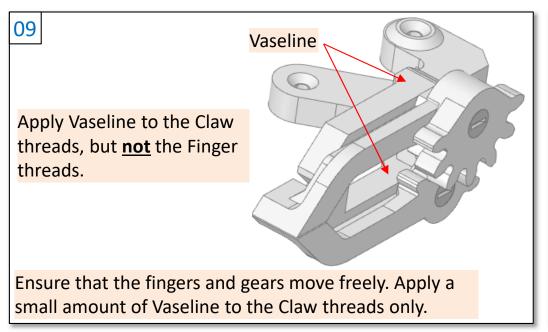
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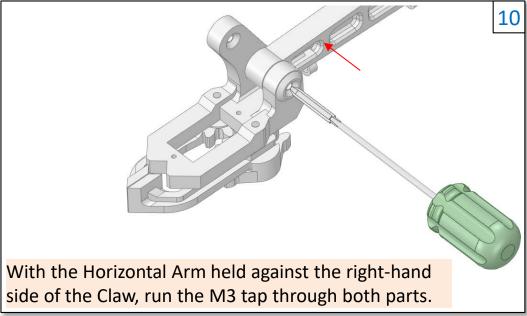


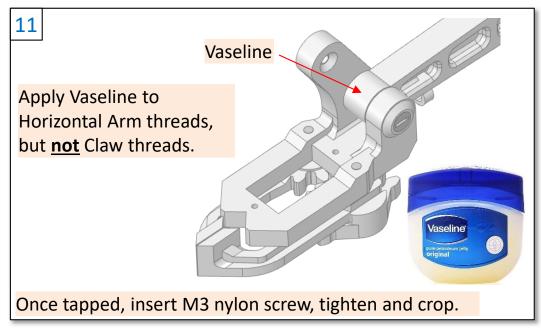






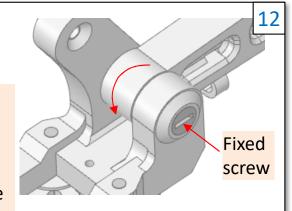






Think of these joints as a being like a nut and a bolt.

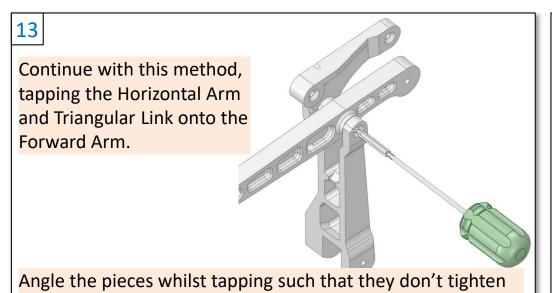
The nylon screw is anchored into the Claw, and fixed, where as the arm will rotate on the screw. It also tightens towards the fixed part, so we must allow some clearance.

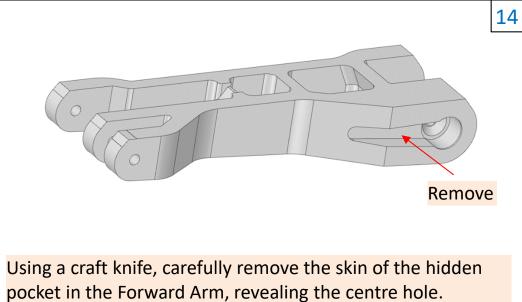


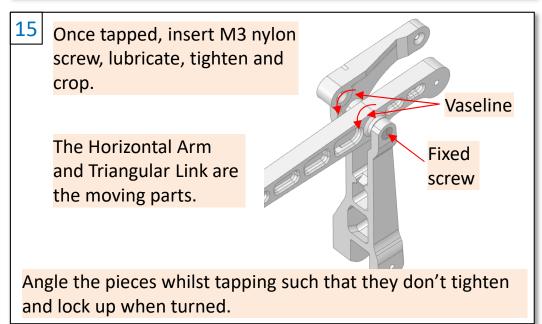
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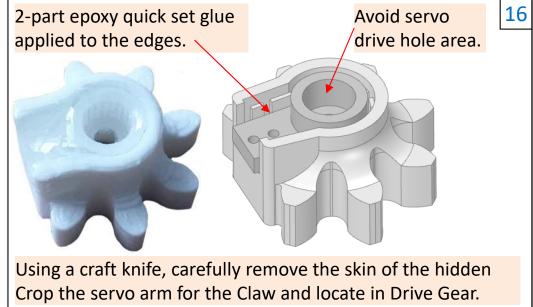
This is why we lubricate the rotating parts with Vaseline to reduce friction and wear.

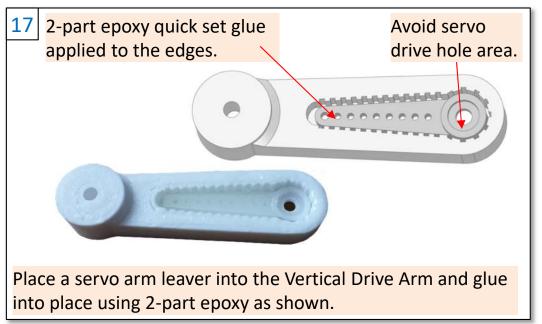
and lock up when turned.

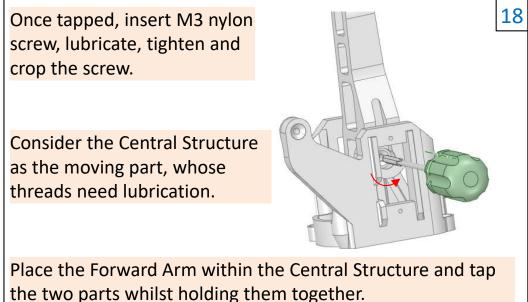


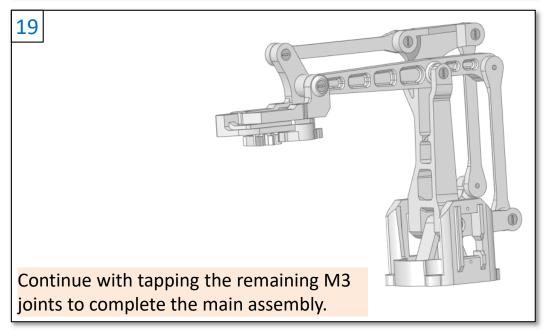


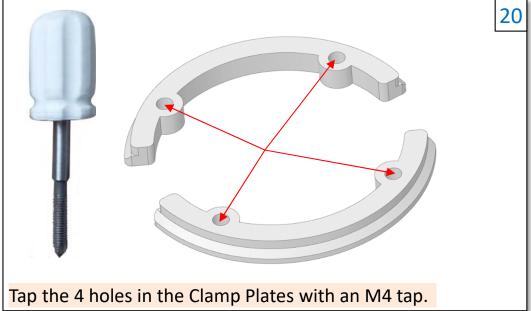


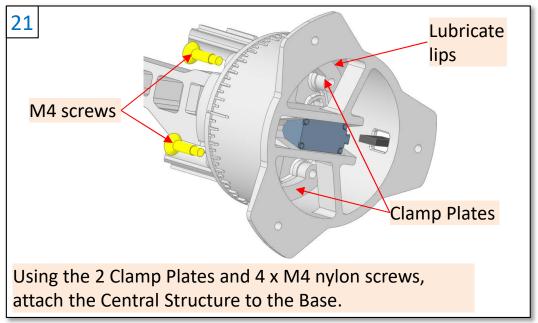


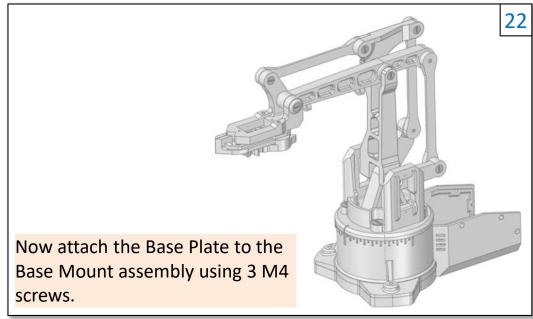


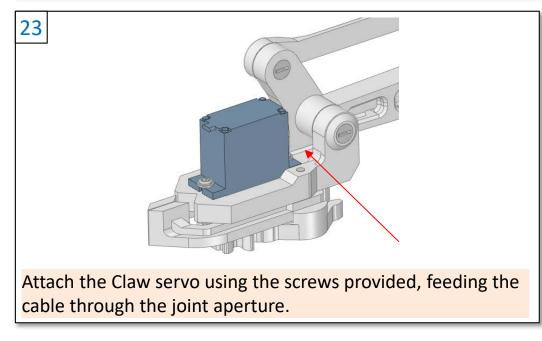


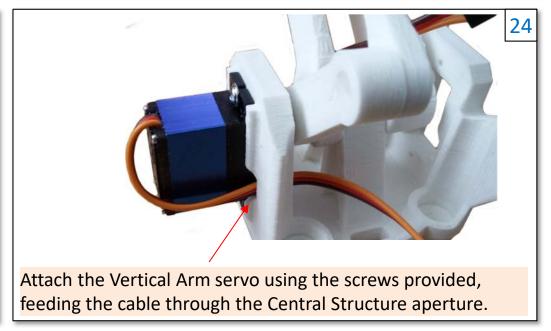


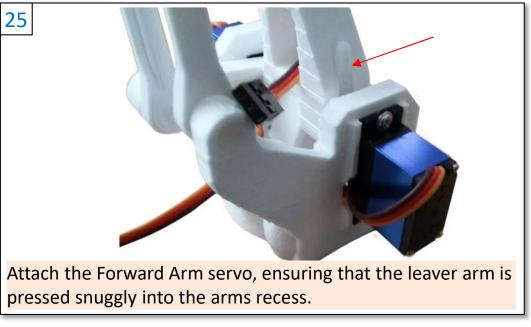


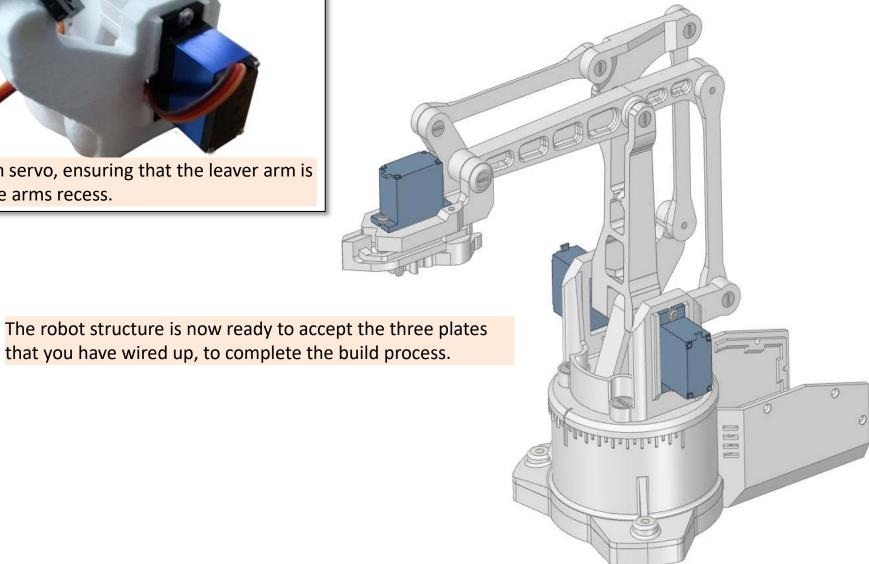












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