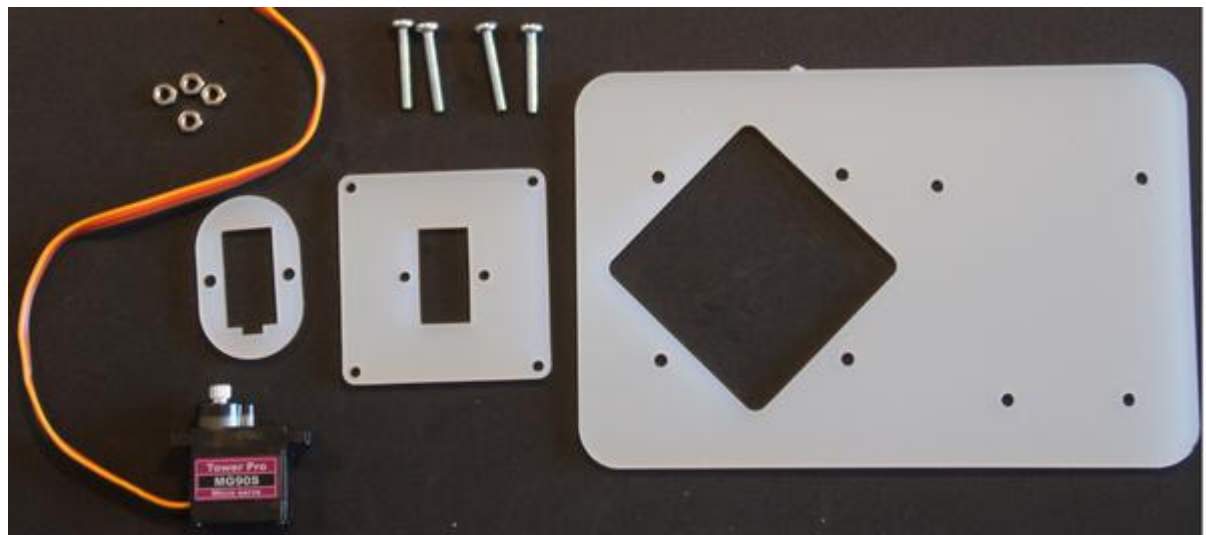


Sort the Parts

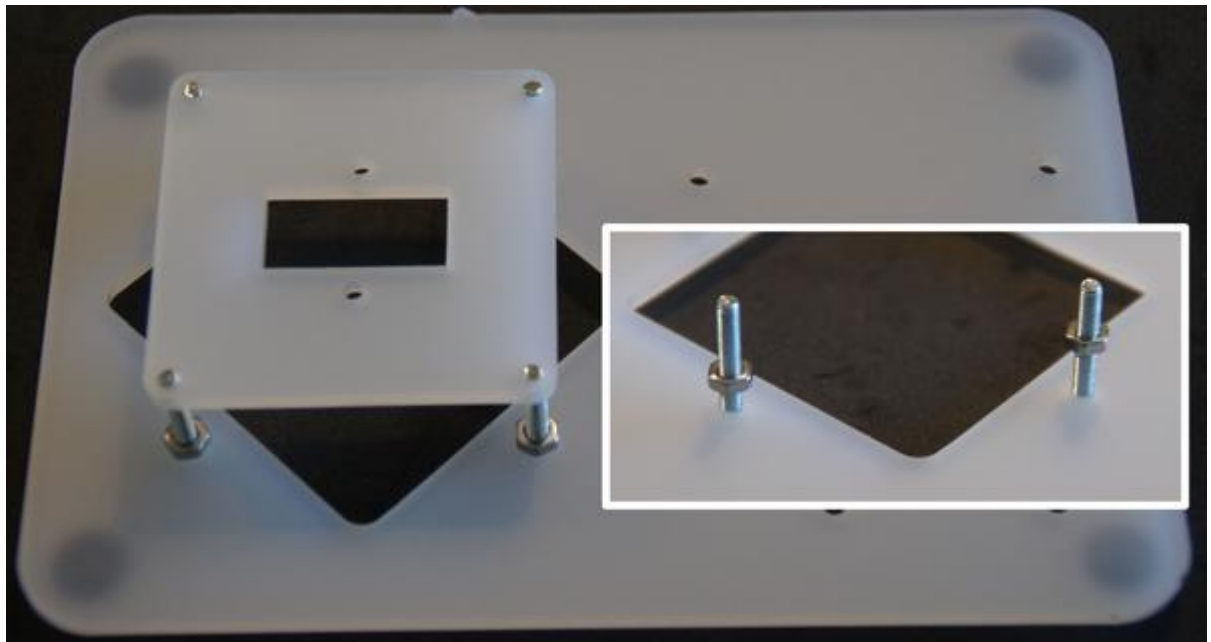


Base Plate

Parts: 1, 2 and 3 - 4 M3x16 - 4 M3 nuts

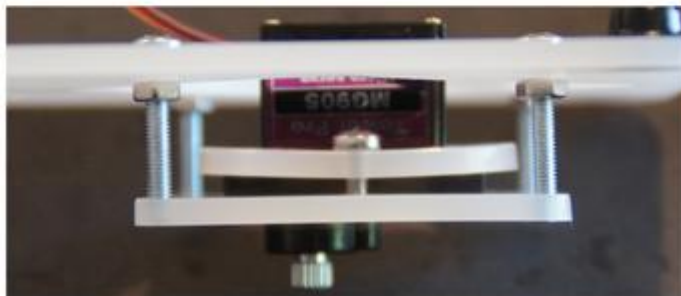
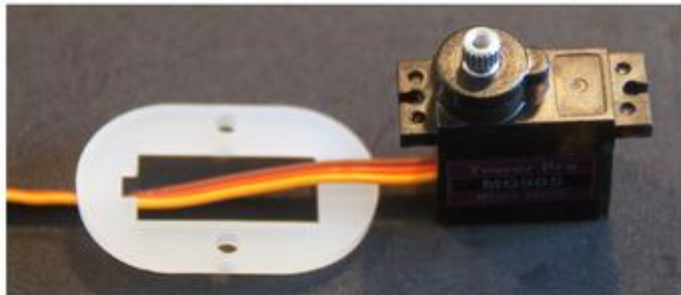


Insert the M3 screws into the holes and attach the nuts.

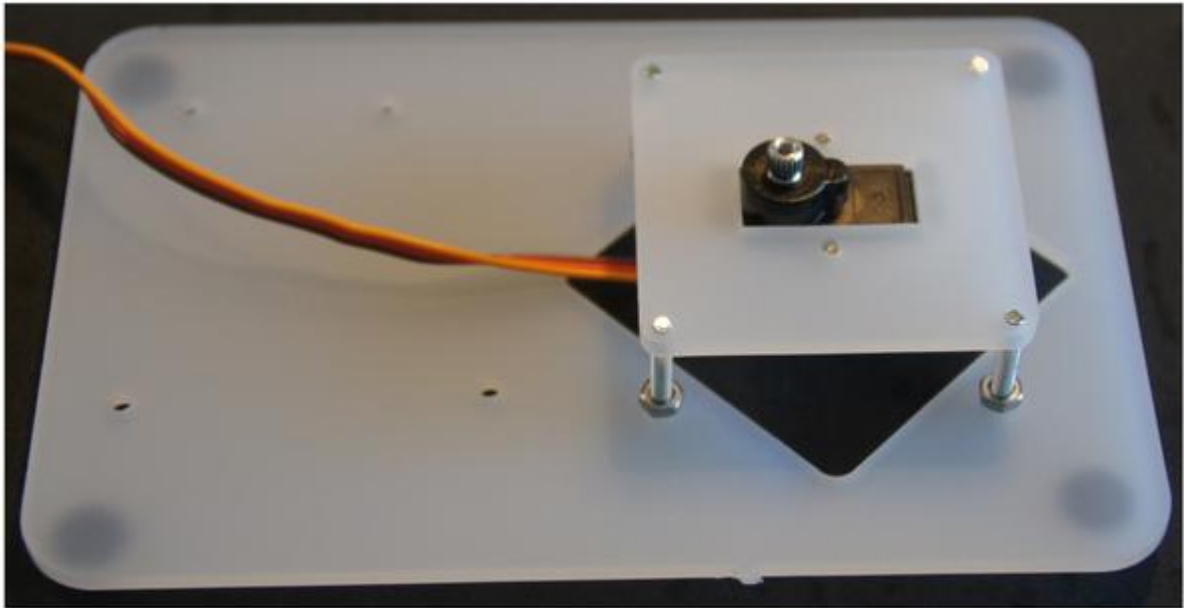


The plate (part 2) will serve as nut for the screws, so carefully drive the screws into the plate until the screw shows up at the other end.

Insert the servo into the holding (3) using the small opening to handle the cables.

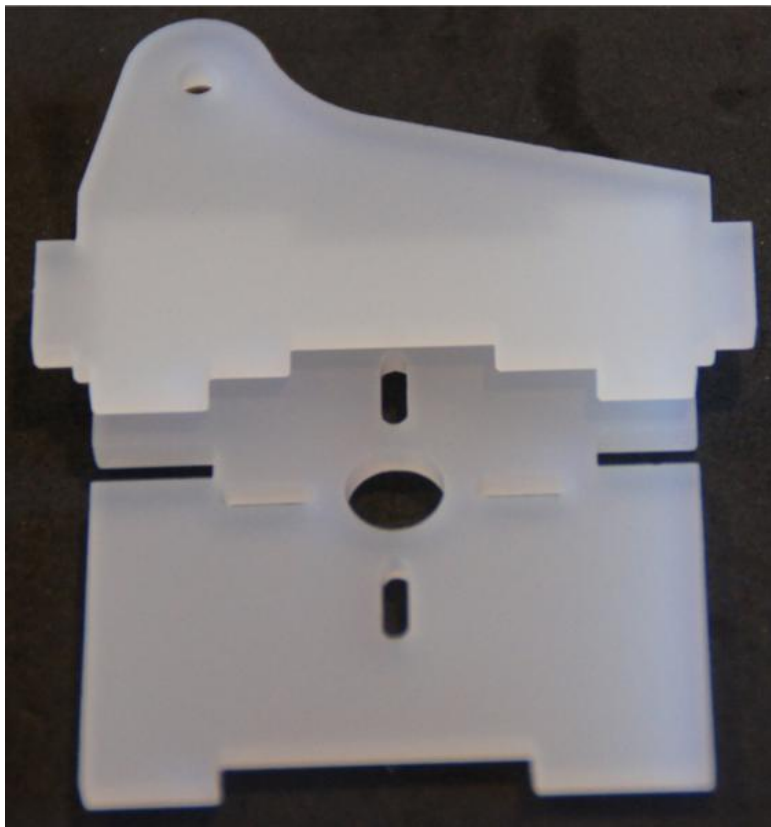


Attach the servo using the M3x10 screws. Do not use too much force or the holding may break. Again, the plate (2) serves as nut for the screws. The result should look like this:

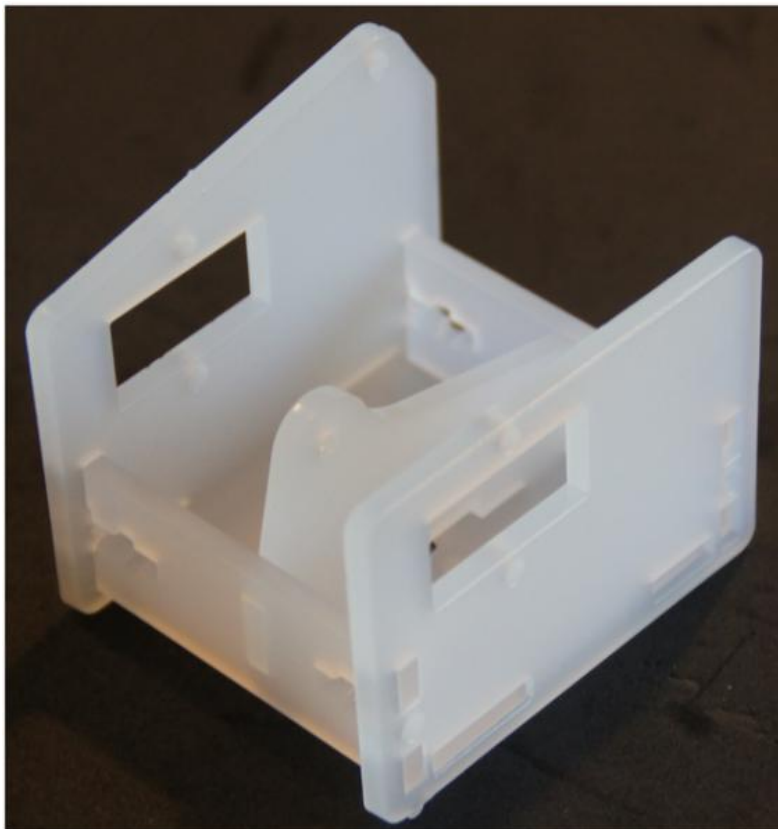
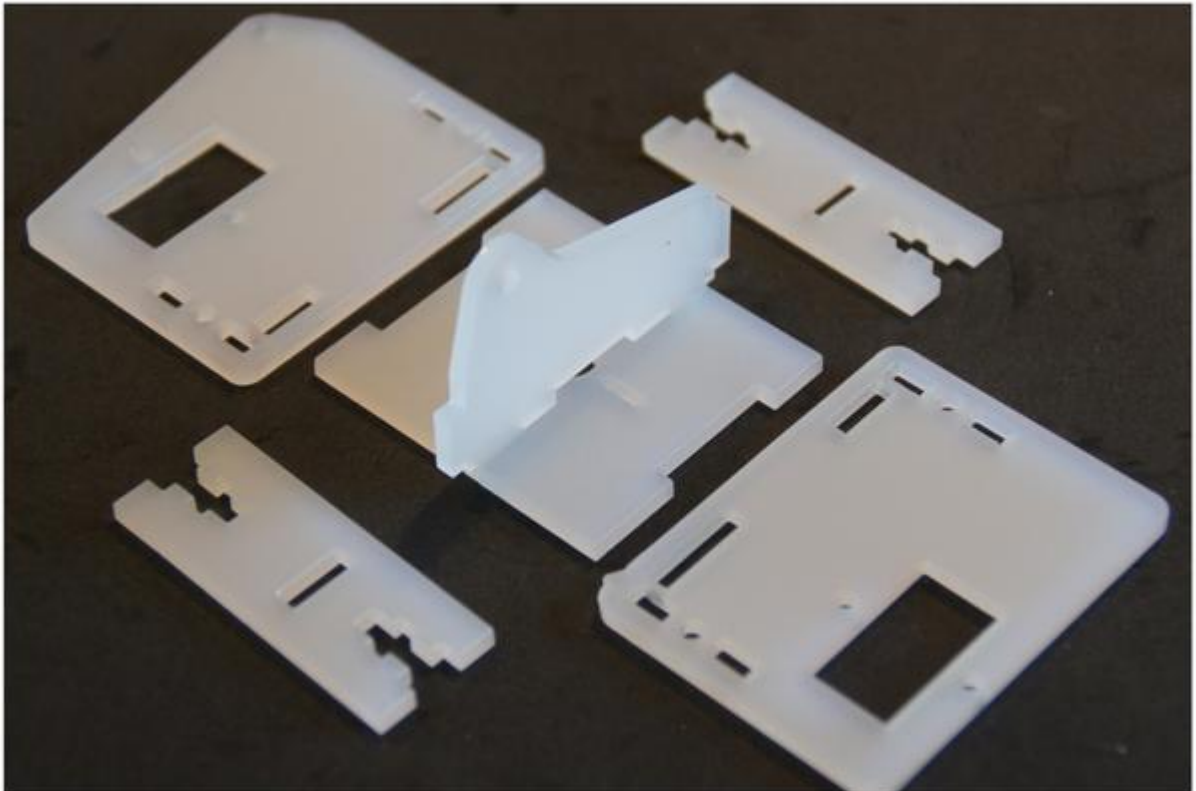


Arm Body

Parts: 4,5,6,7,8,9 - 4 screws M3x12 - 4 M3 nuts



The following picture shows the body parts aligned before assembly. Please note that the hole at the top of the standing part (5) is opposite to the top hole of the side part (6)



Now insert the nuts and connect the parts with the M3x12 screws. The best way to insert the nuts (without going nuts) is to put the body on the side and to lay the nut into the hole. Then drop the M3 screw from the top and tighten:

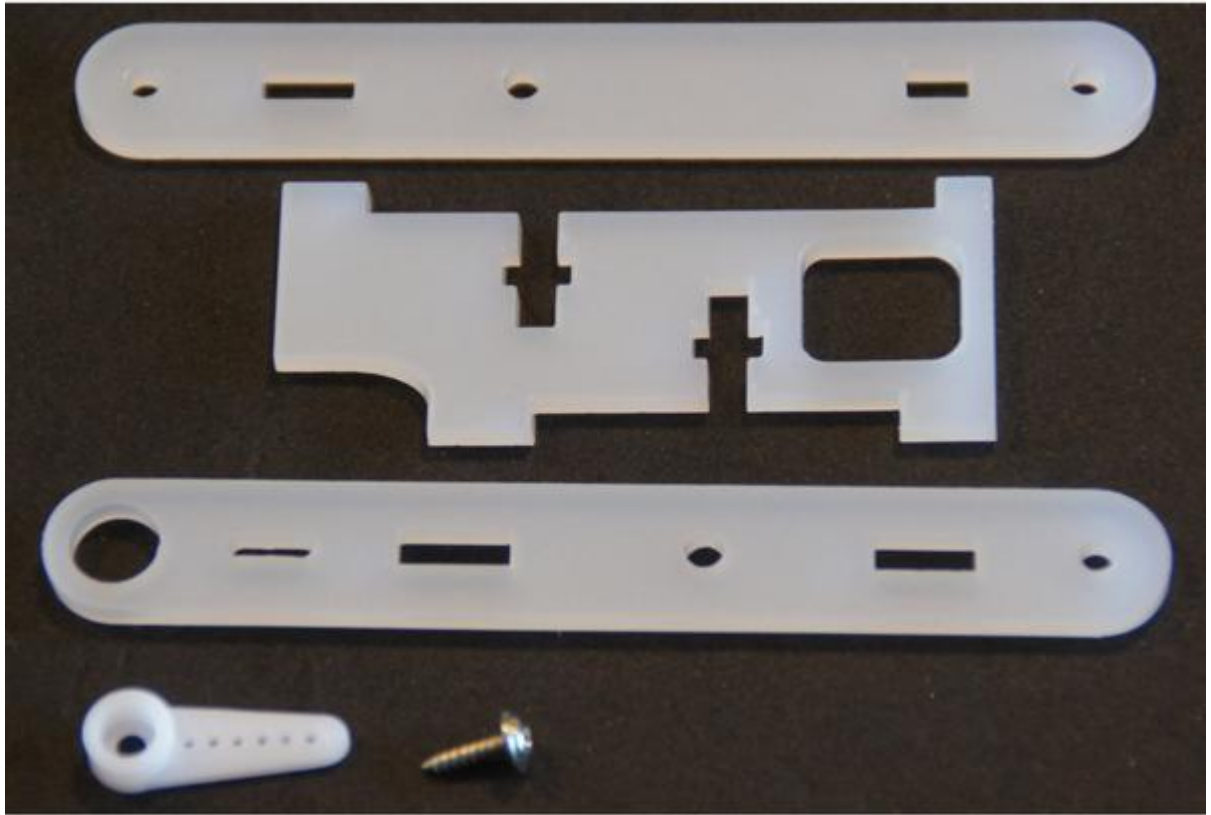


Attach the horn and reassemble.

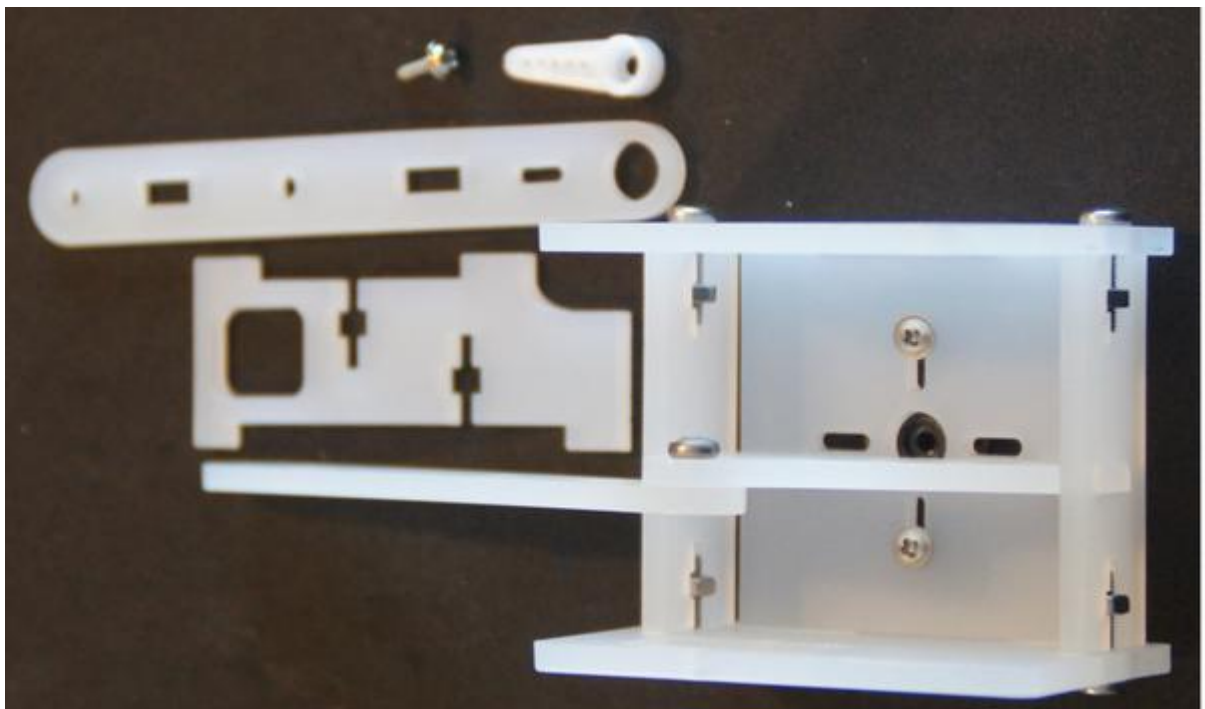


Main Arm

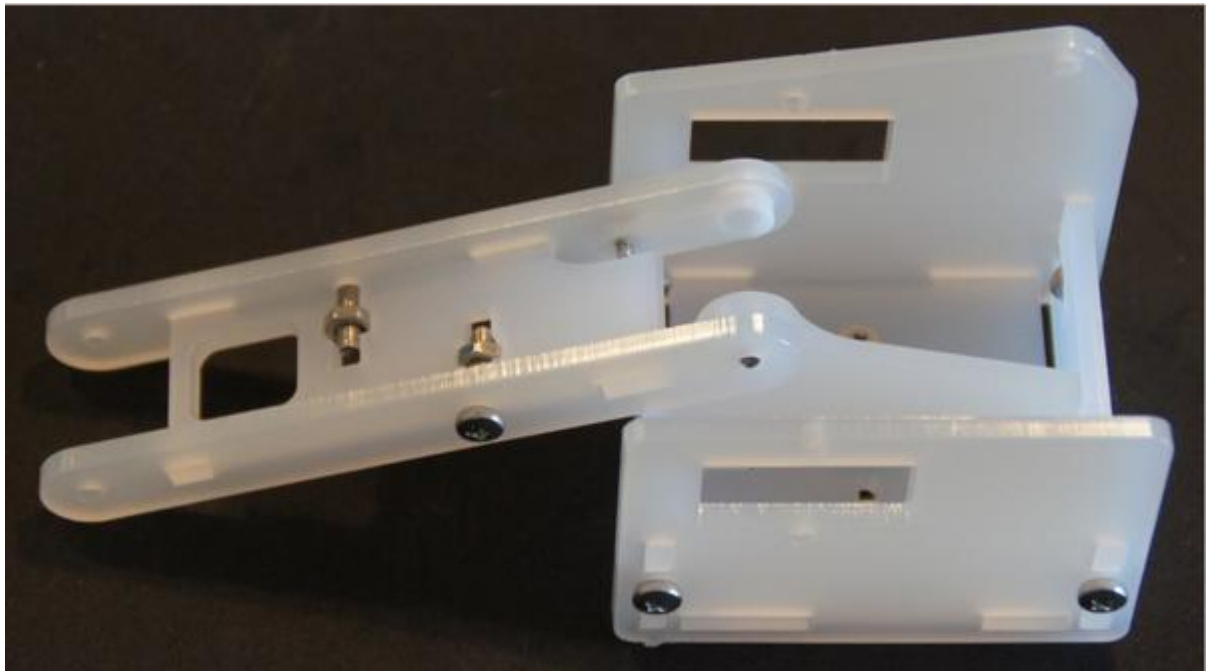
Parts: 10, 11, 12 - 1 M3x6 - 2 M3x12. 2 M3 nuts



The picture shows the servo horn that gets attached to the big hole in part 10. Before assembling the arm, one side (11) needs to be connected to the middle part of the body (5). Otherwise, the fitting screw will be hard to reach afterwards.



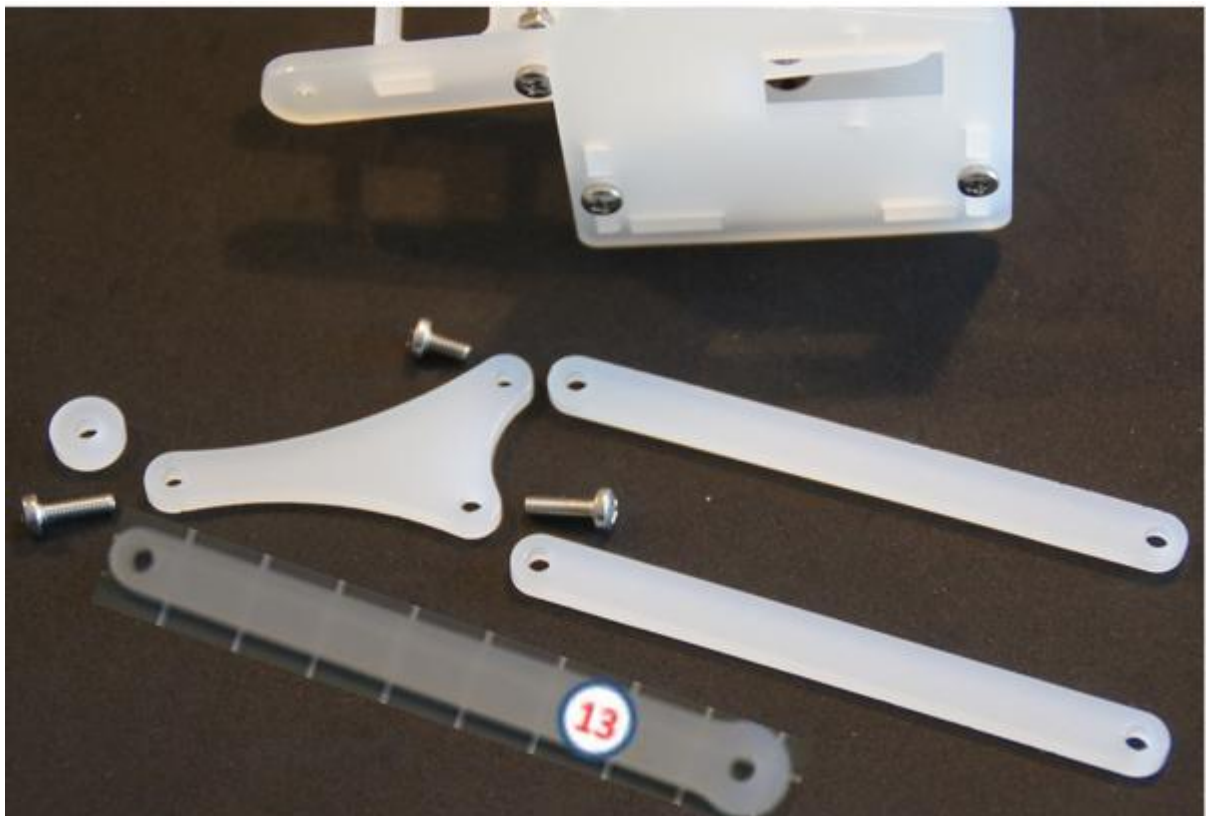
Note that the arm is located in the smaller compartment.



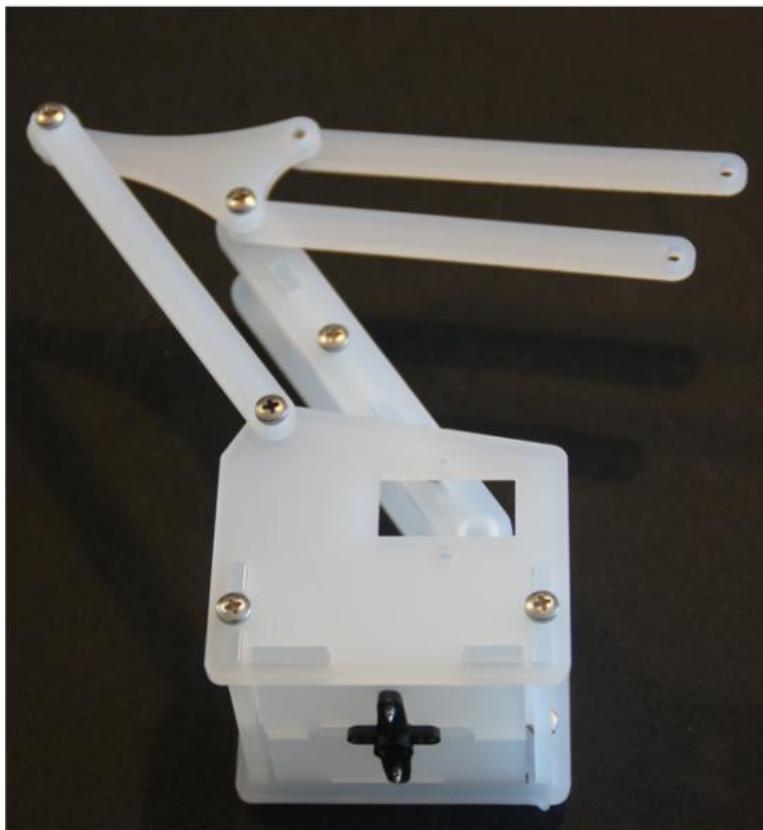
Assemble the arm as shown above.

The Lift

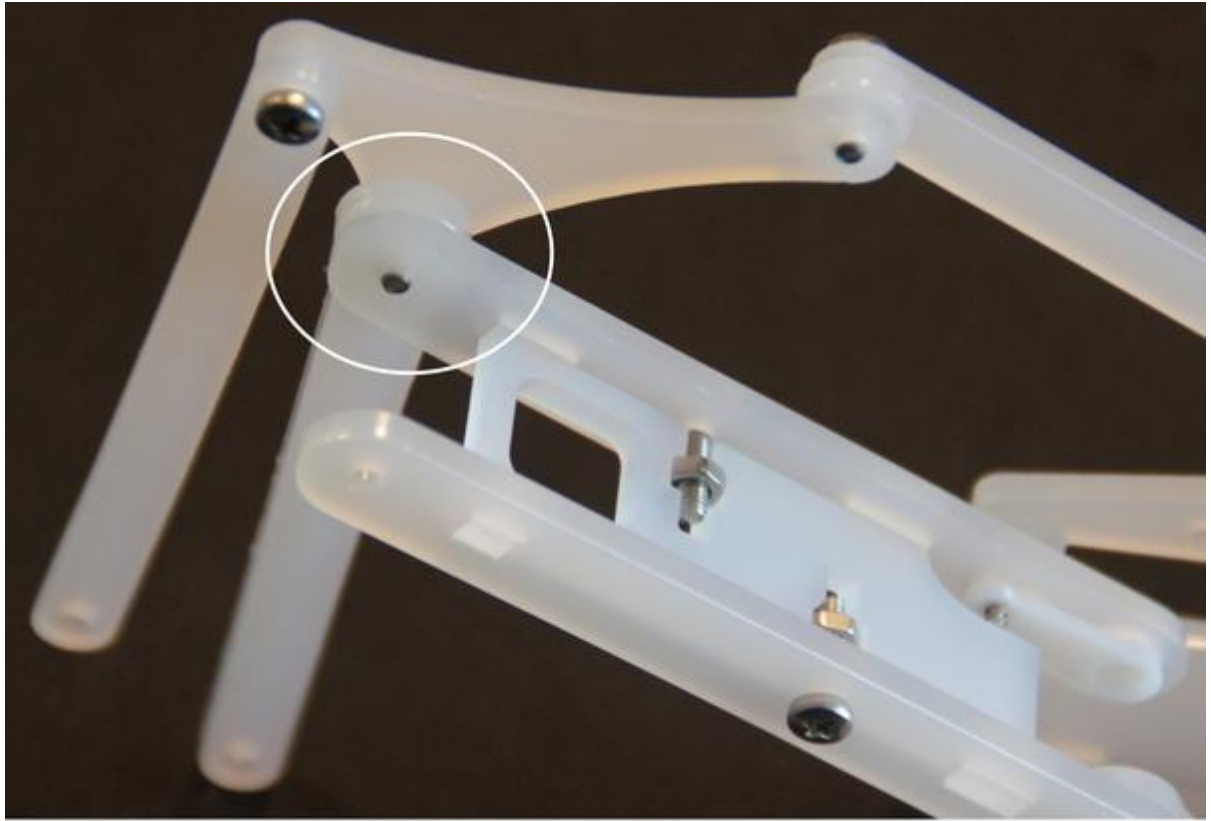
Parts: 13, 14, 15, 18 and 28 - 3 M3x10



Assemble the parts as shown here:

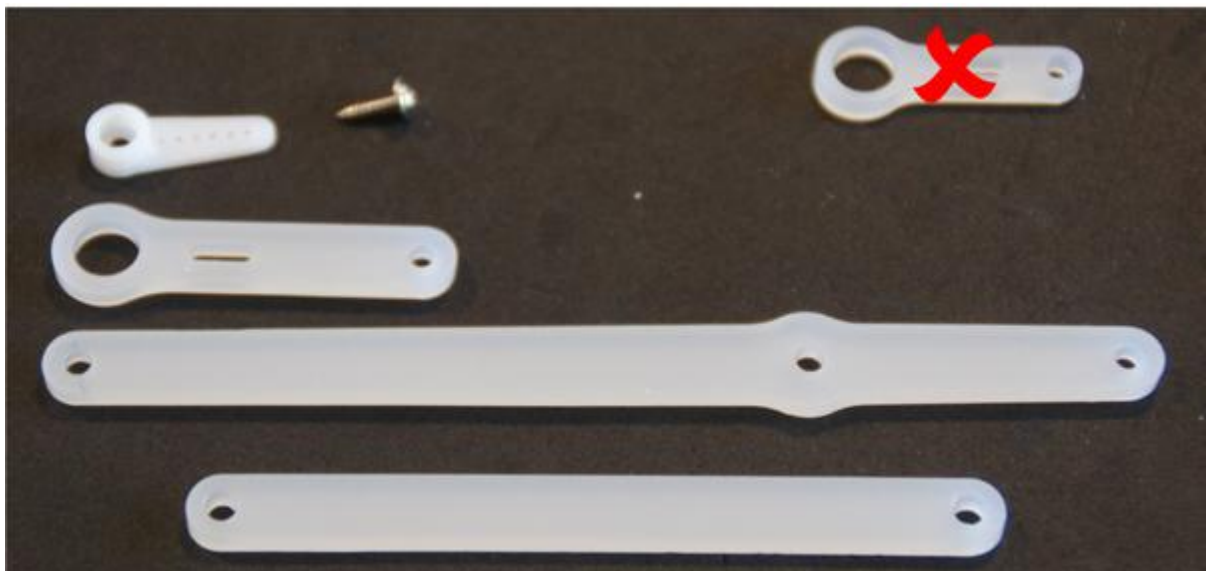


The above is part 13 with circle.



The Extender

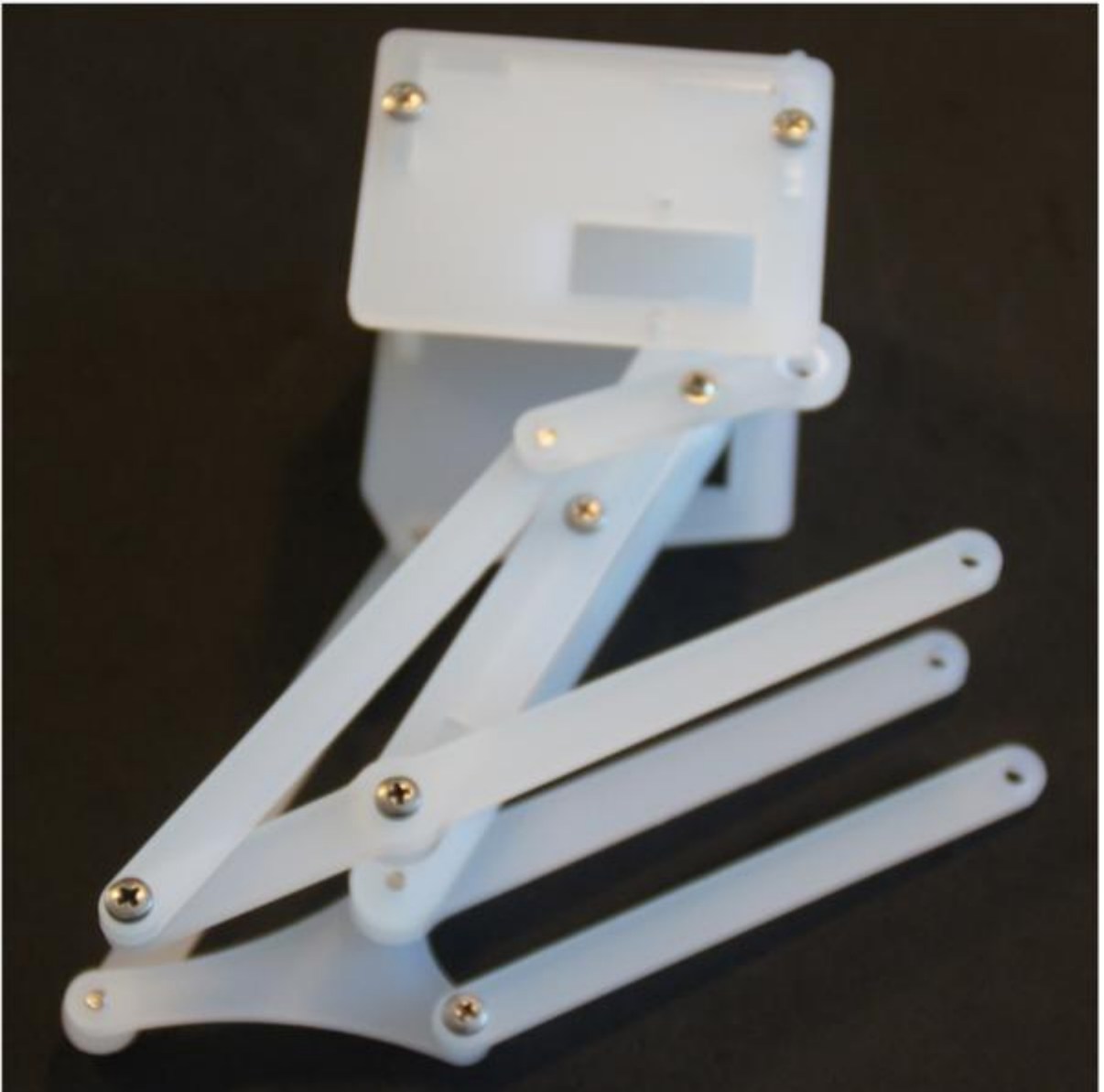
Parts:16, 17, 19 - 2 M3x6 - servo horn and screw



The smaller part holding a servo horn (20) is used for the gripper - do not mix.

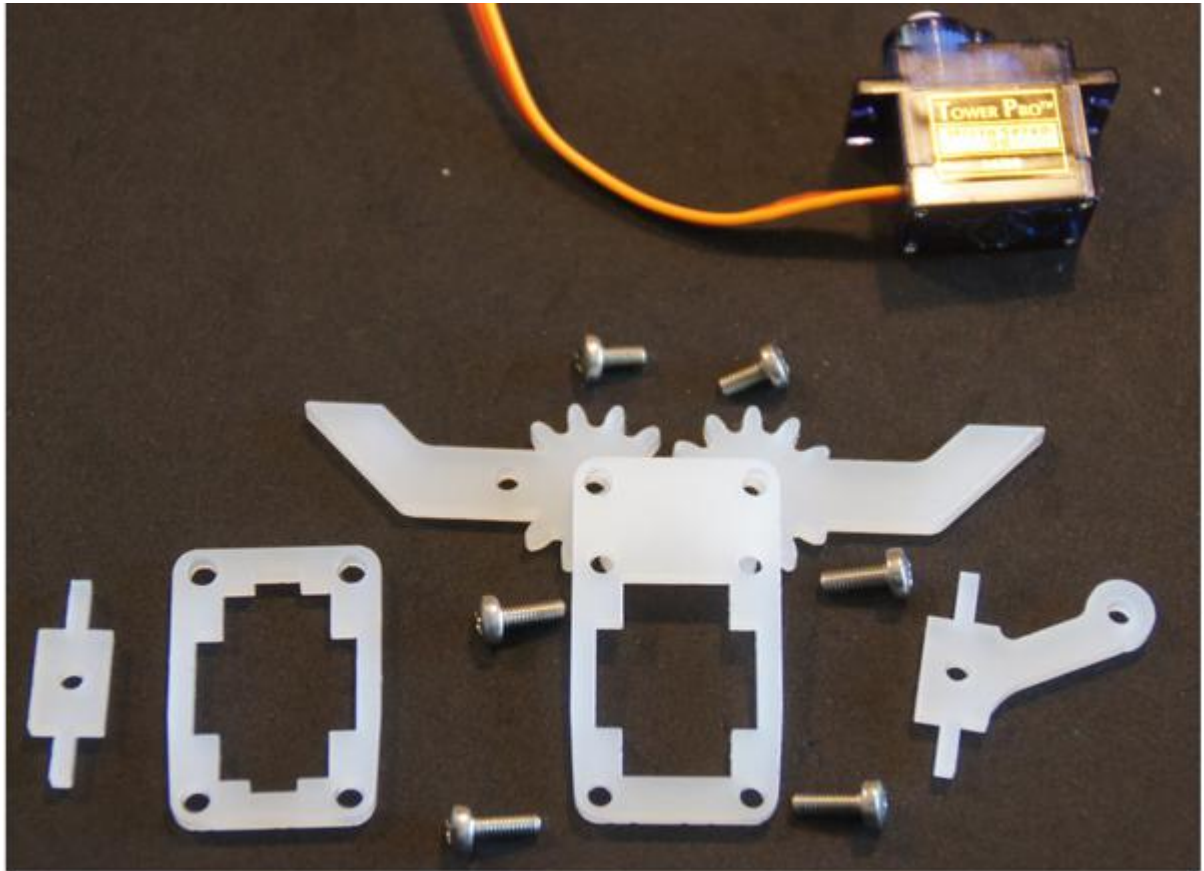


The final assembly:

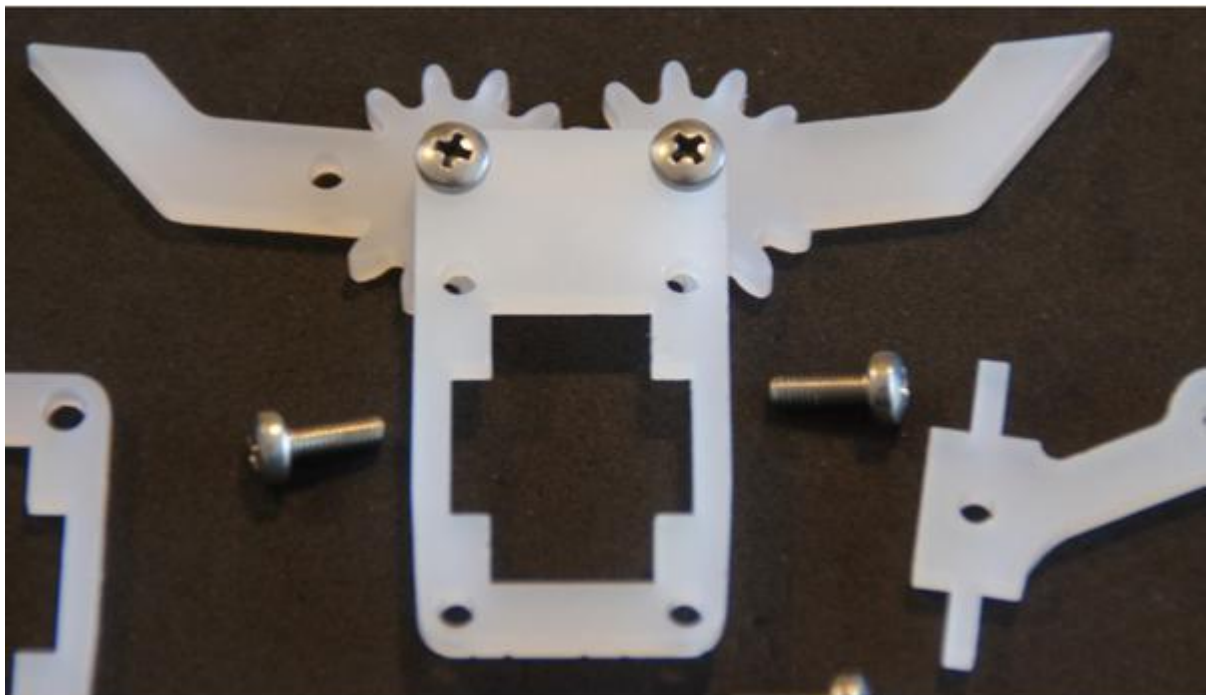


The Gripper

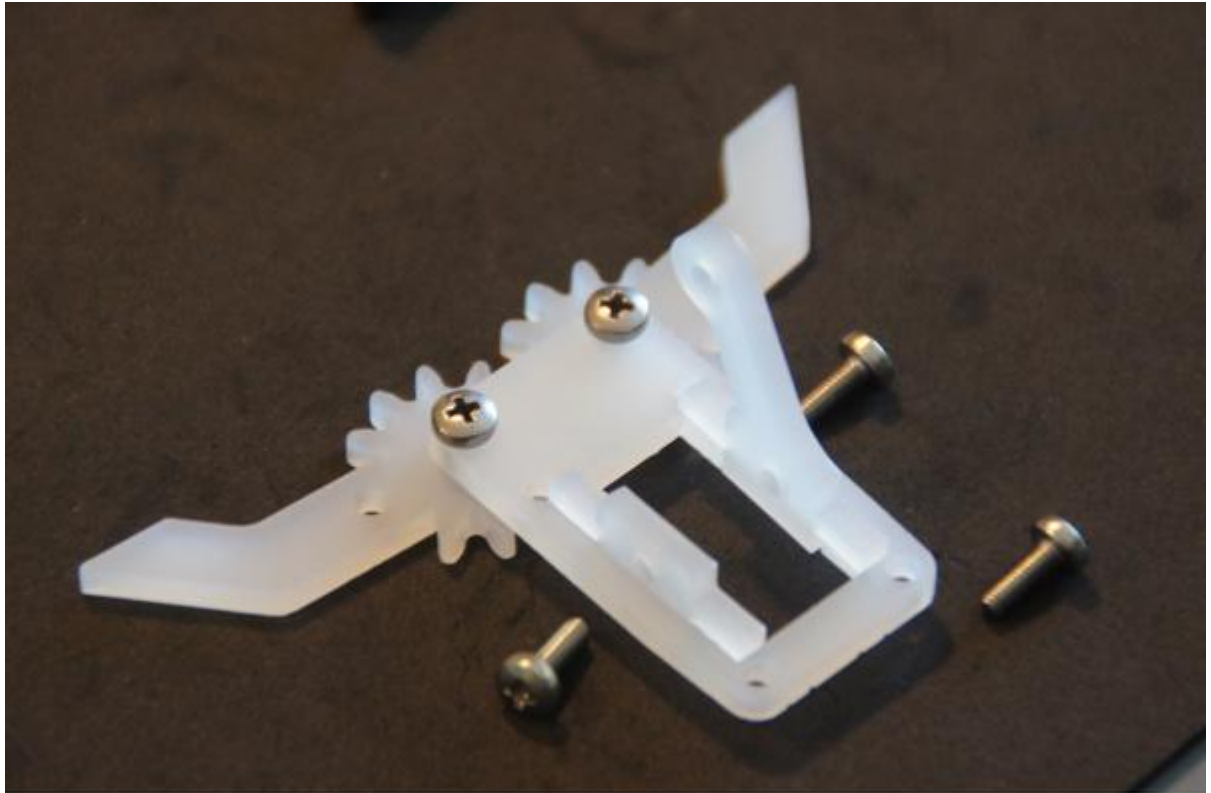
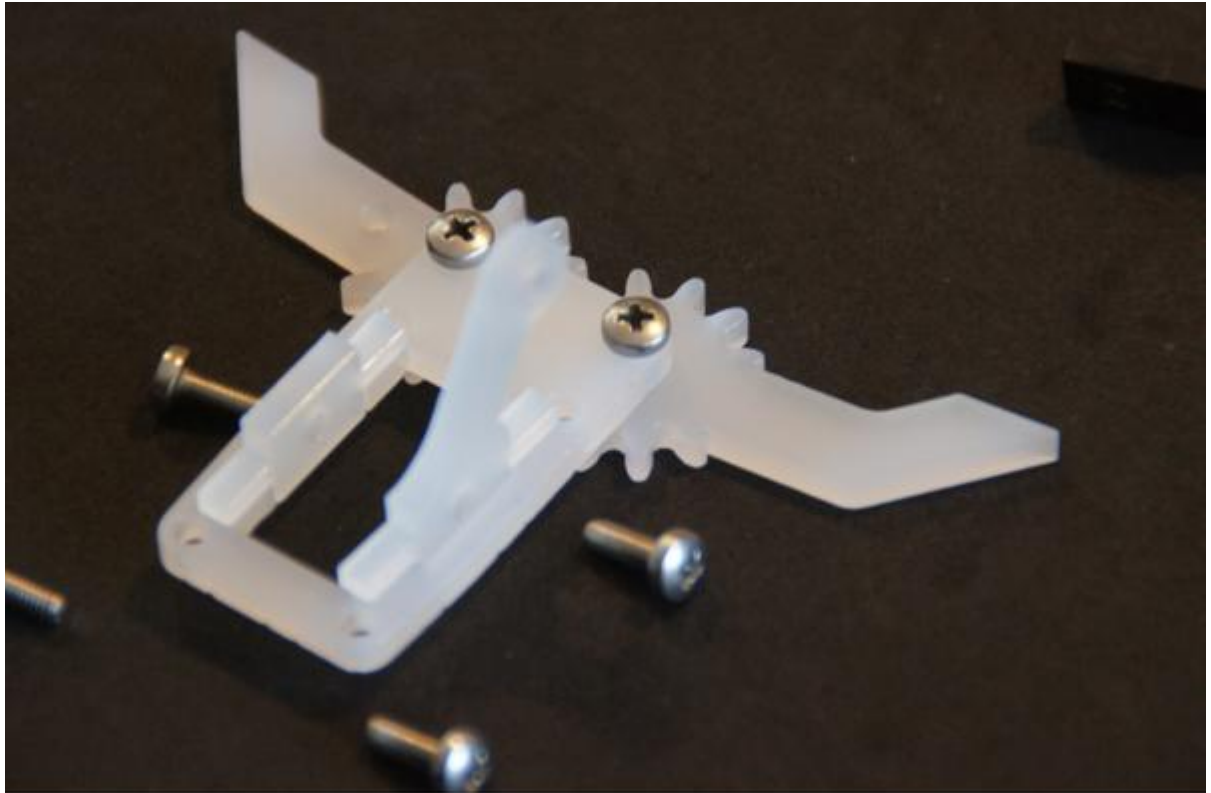
Parts: 21, 22, 23, 24, 25, 26 - 2 M3x6 - 6 M3x10 - 1 servo

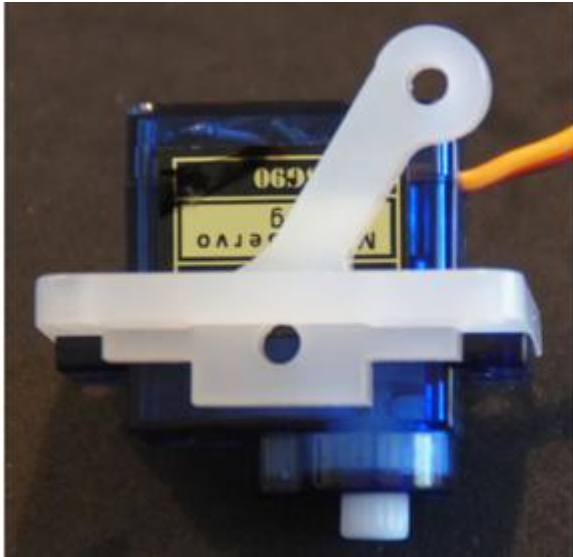


Attach the gripper claws, the one with the hole to the left

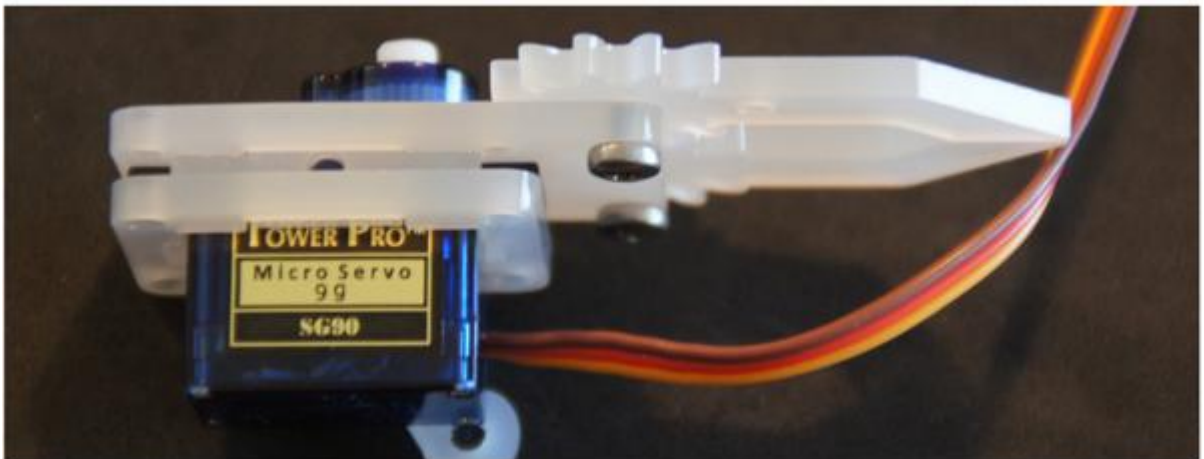
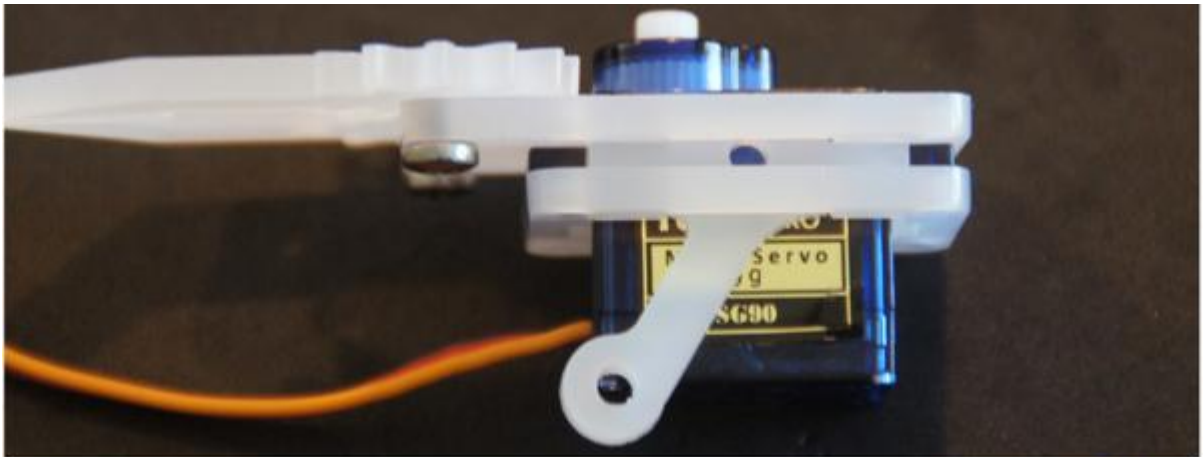


There are two small parts (23,24) that need to be placed to the side of the servo, the horn (24) pointing forward on the right side:



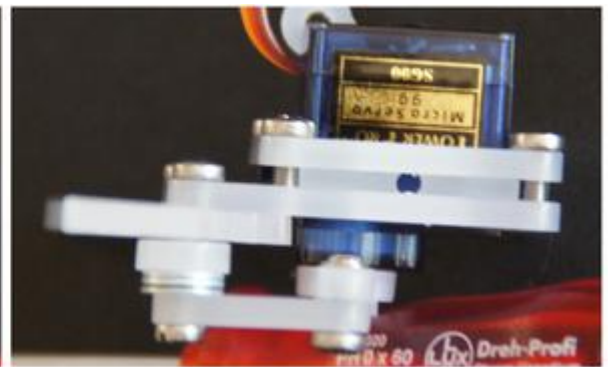
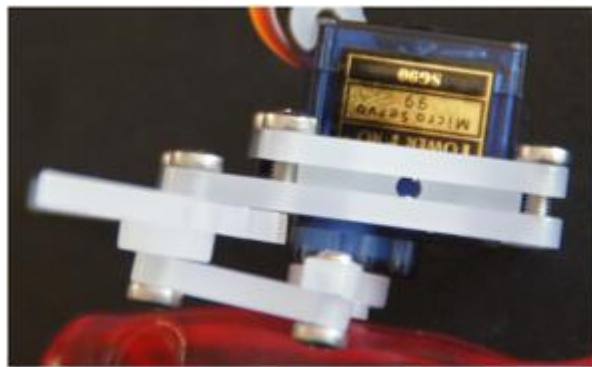
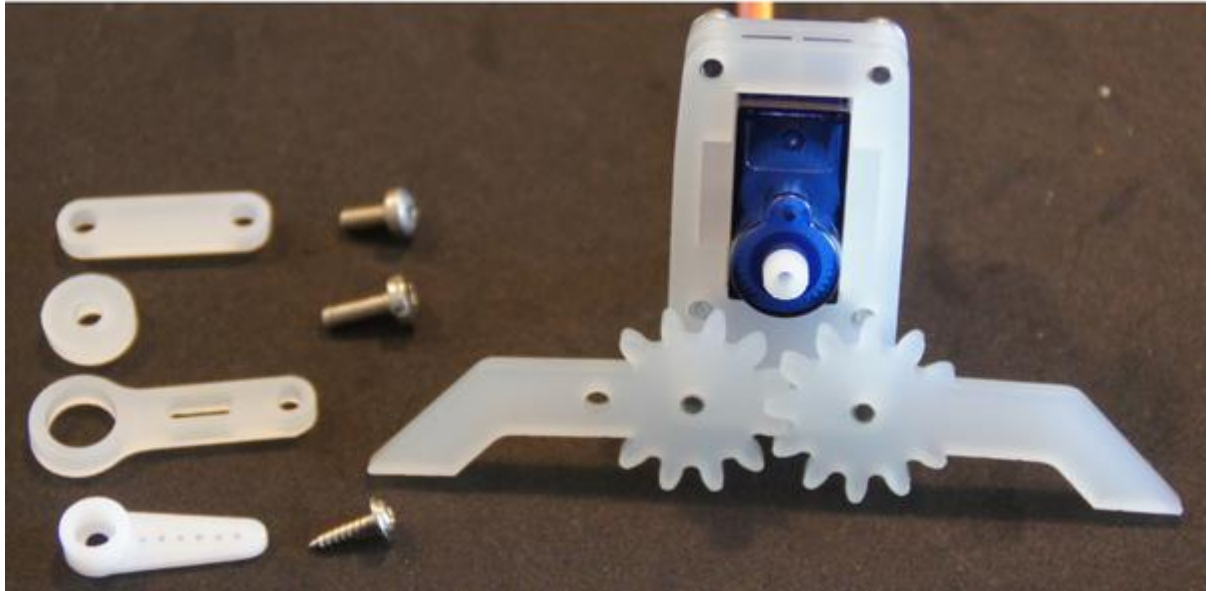


Use the M3x10 screws to tighten the servo:



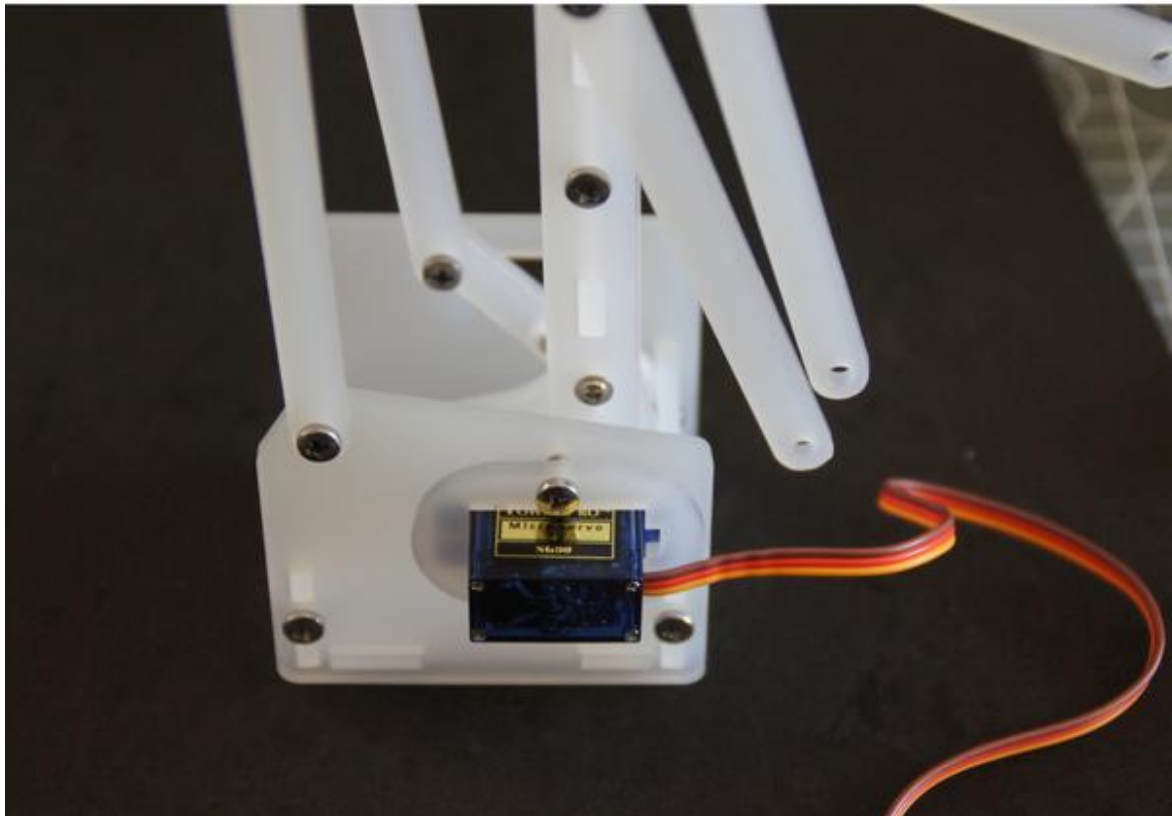
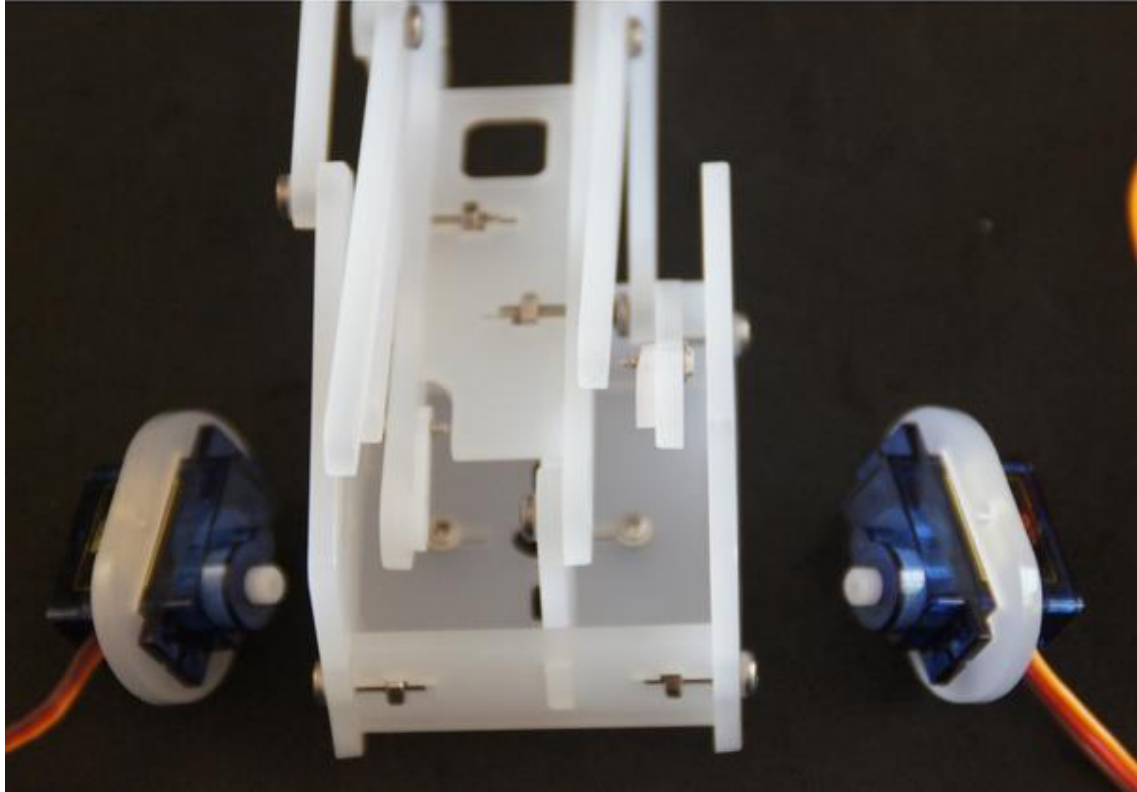
The Gripper Driver

Parts: 20, 27, 29



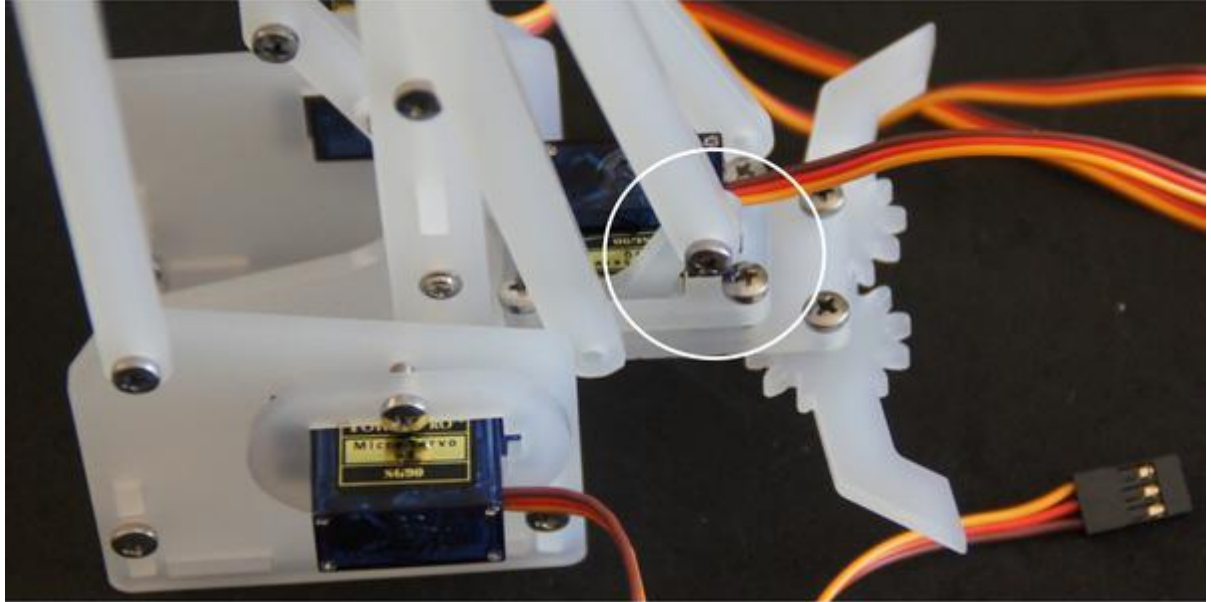
Adding the Servos

Finally add the lifting and extending servos:

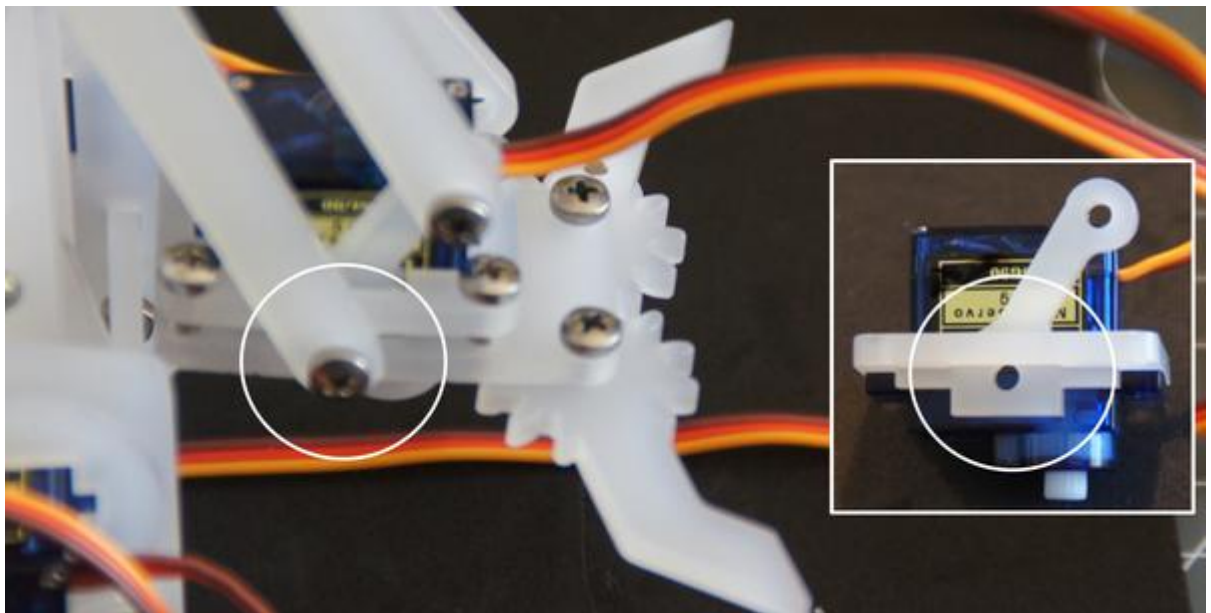


Attaching the Gripper

As the last step, the gripper needs to be attached to the arm. It is quite easy if you attach the upper arm to the horn on the right side of the gripper:



Once it hangs (and moves) freely, you can attach the gripper servo to the remaining two arms:



Done

