

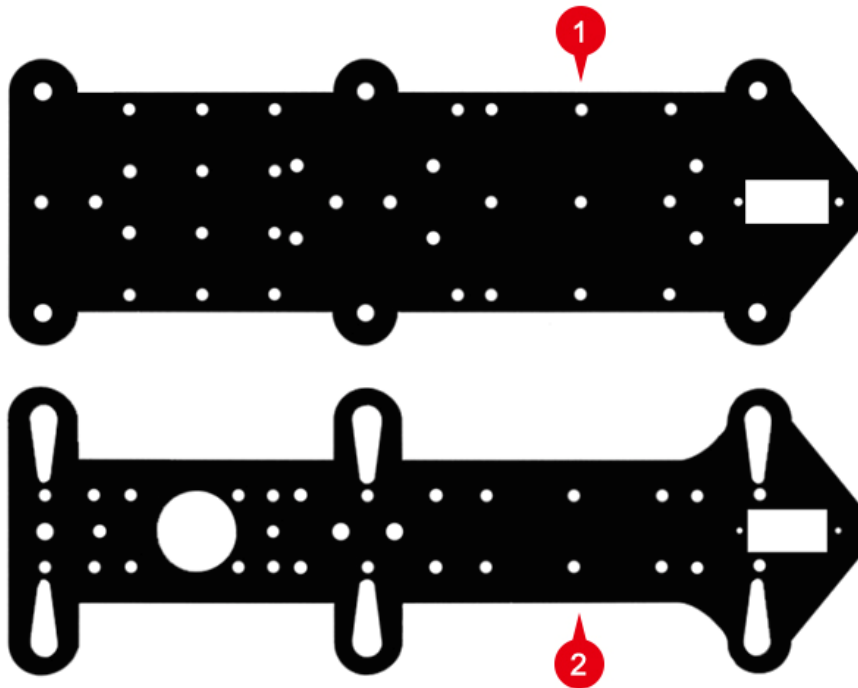
# Assembly manual of Hexypider

## Part 1 Accessories introduction

The main body of the robot is two pieces of acrylic plate.

Part 1: acrylic sheet on the bottom x 1

Part 2: acrylic sheet on the top x 1



The hardware needed to assemble the Hexapod

Part3: brass straight pin M3 40mm x 5

Part4: round head screw M5 10mm x 6

Part5: Hexagon socket head cap screws M3 12mm x 6

Part6: round head screw M1.5 11mm x 18

Part7: self tapping screw M2 9mm x 6 (with washer)

Part8: round head screw M3 10mm x 34

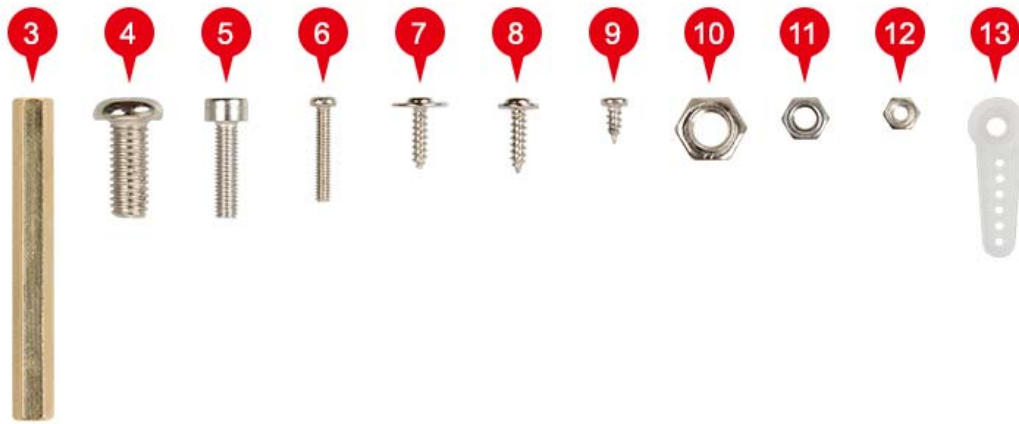
Part9: round head screw M2 7mm x 24

Part10: screw nut M5 x 6

Part11: screw nut M3 x 34

Part12: screw nut M1.5 x 18

Part13: Servo fittings x 12



#### Other acrylic supporting components

Part 14: Acrylic fitting x 6

Part 15: Acrylic fitting x 6

Part 16: Acrylic fitting x 6

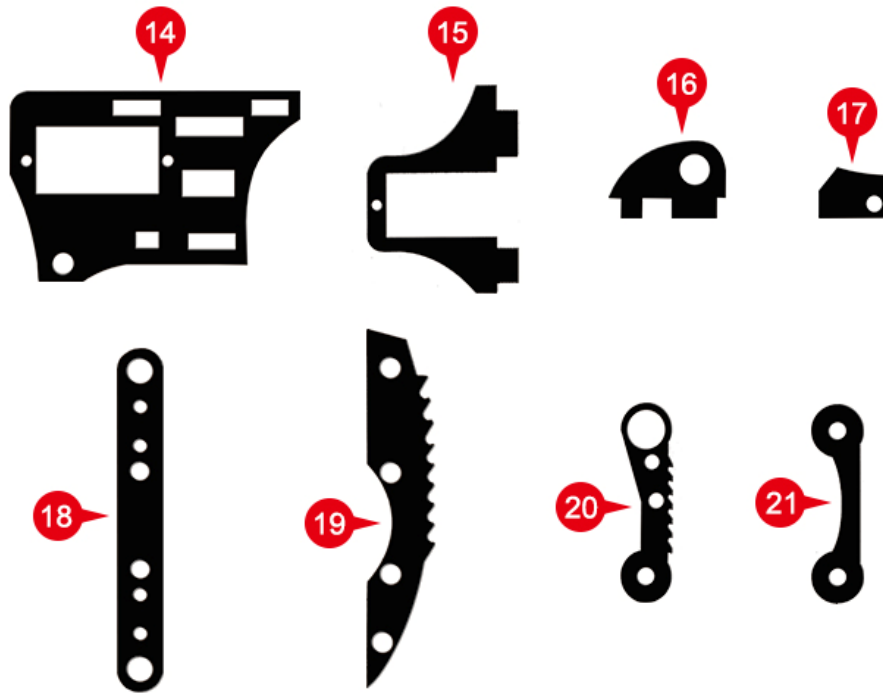
Part 17: Acrylic fitting x 6

Part 18: Acrylic fitting x 3 (on the top)

Part 19: Acrylic fitting x 6

Part 20: Acrylic fitting x 6

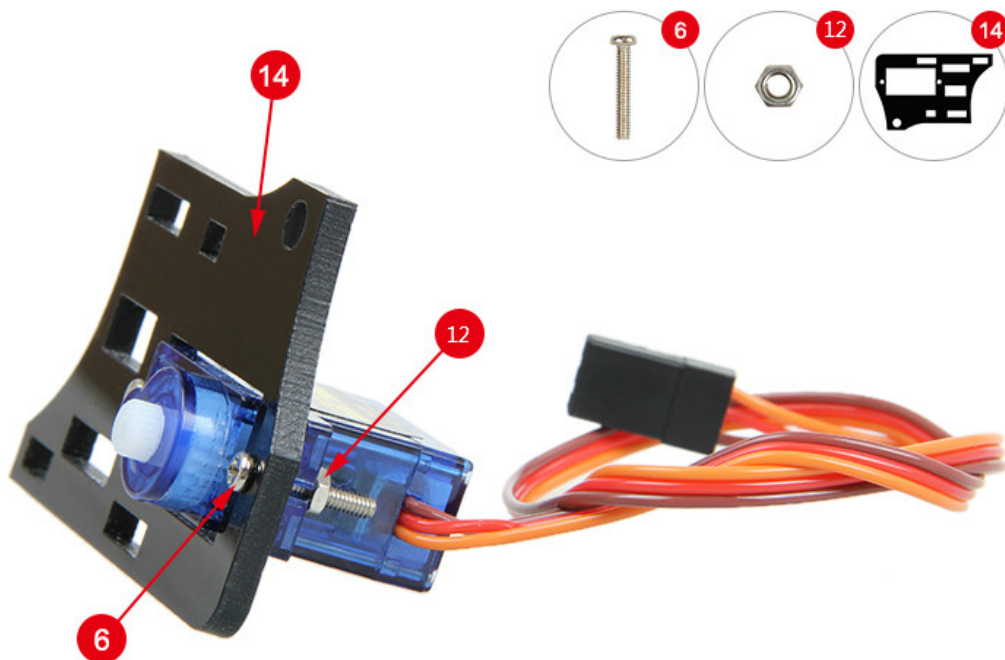
Part 21: Acrylic fitting x 6



## Part 2 Assembly procedure

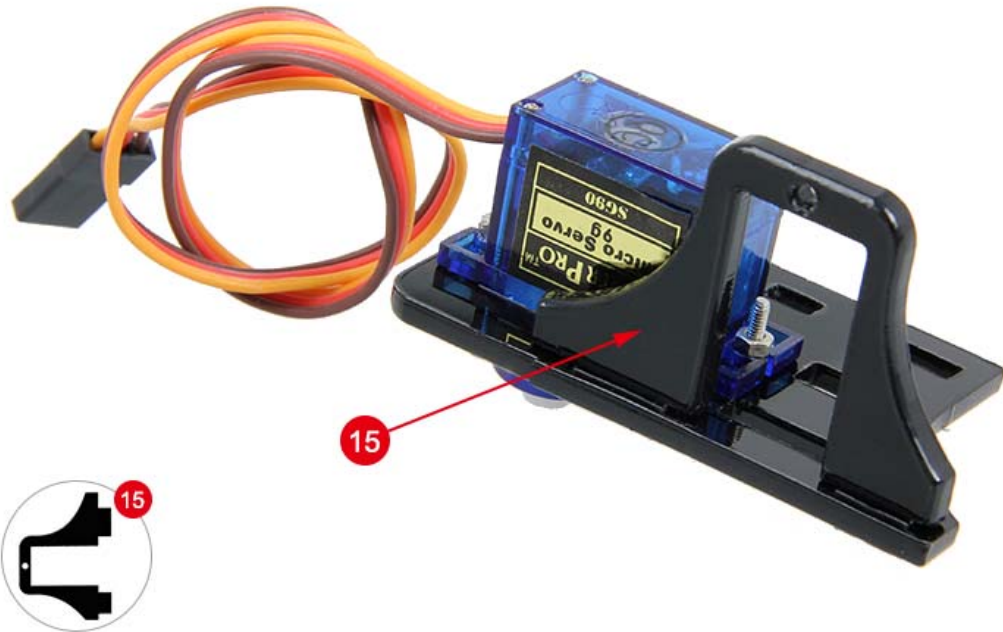
### Step 1

Take the part 13; fix the Servo in part 14 with a screw (part6) and screw nut (part12), as shown in the picture;



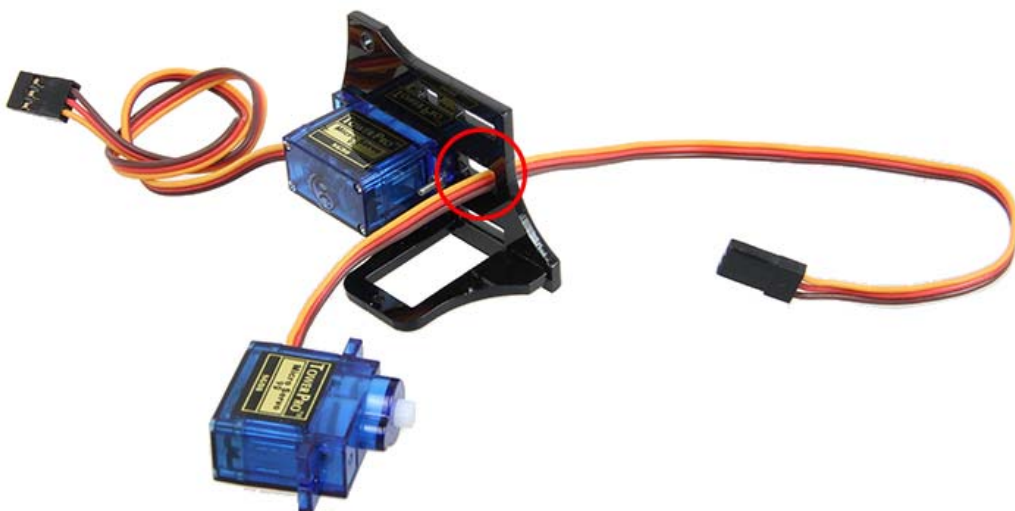
### Step 2

Take out part15 and mount it in to part 14(plug slightly, do not force too much, or the acrylic part will be broken.) as shown in the picture;



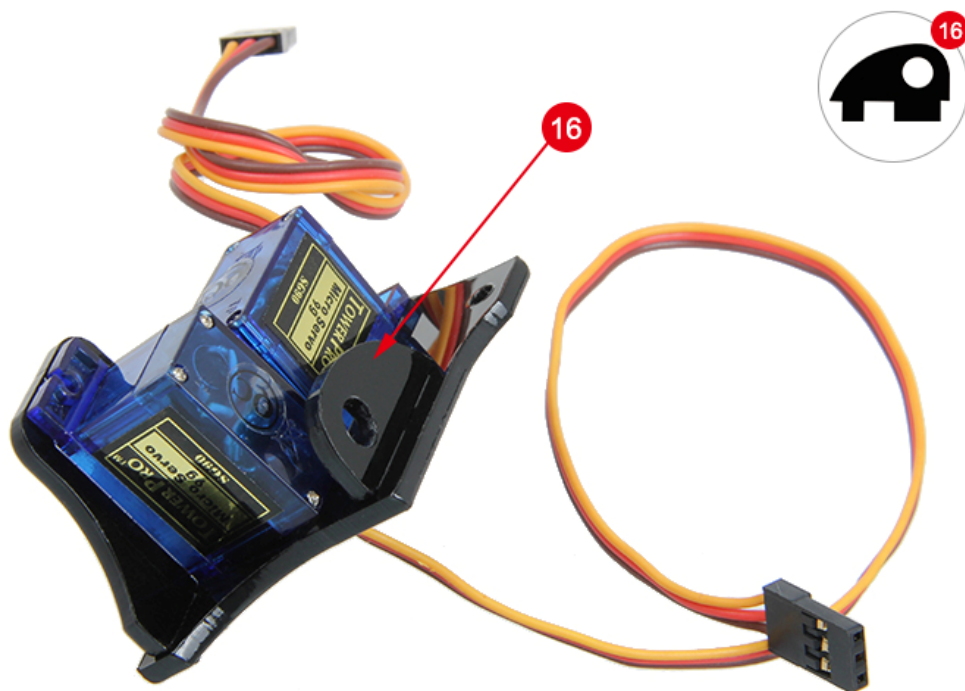
### Step 3

Take out another servo; thread the wire of servo through the hole on part 14.



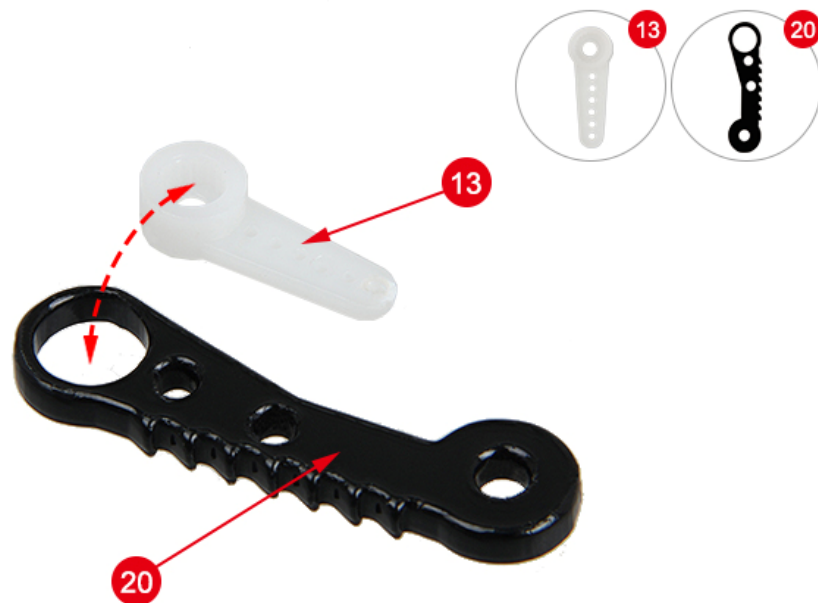
Step 4

Fix the servo on part 14 with a pair of screw (part 6) and screw nut (part 12). And then plug the part 16 in part14. As shown in the picture.



Step 5

Cover part 13 into part 20. As shown in the picture.

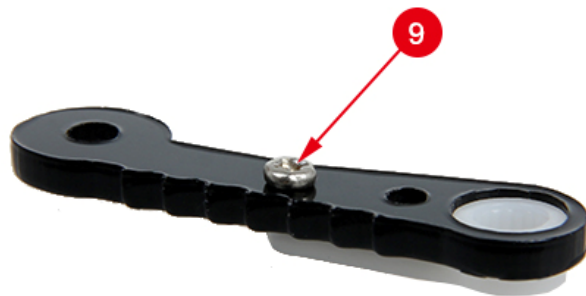


As shown in the following picture:



Step 6

Screw up part 13 and 20 with a round head screw (part9), as shown in the picture.



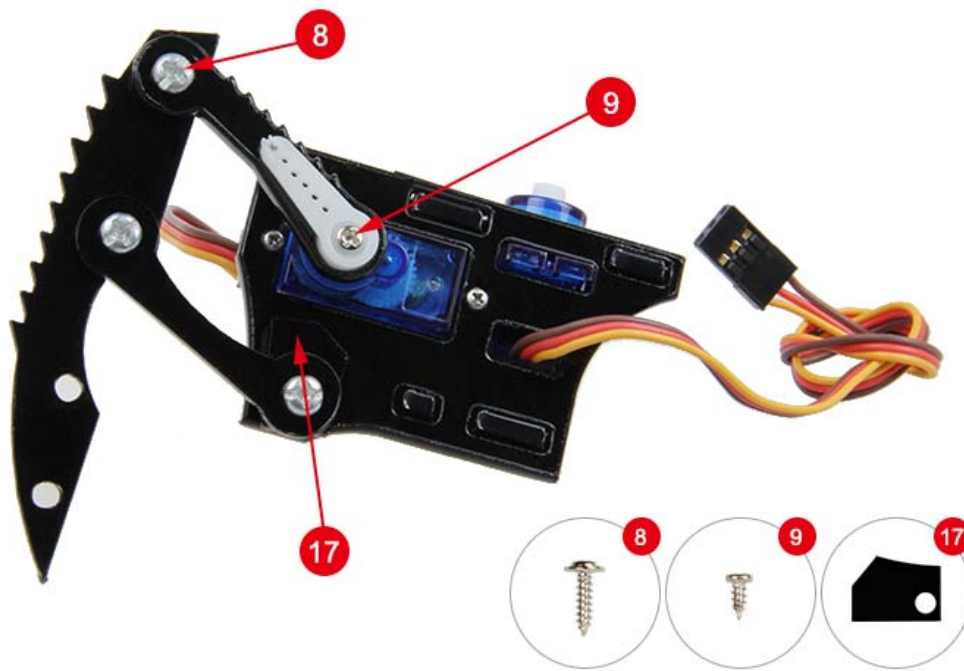
### Step 7

Take out part 19 and 21; screw up part 19 and the assembled part in the above step on part 19 with two round head screws (part 8).

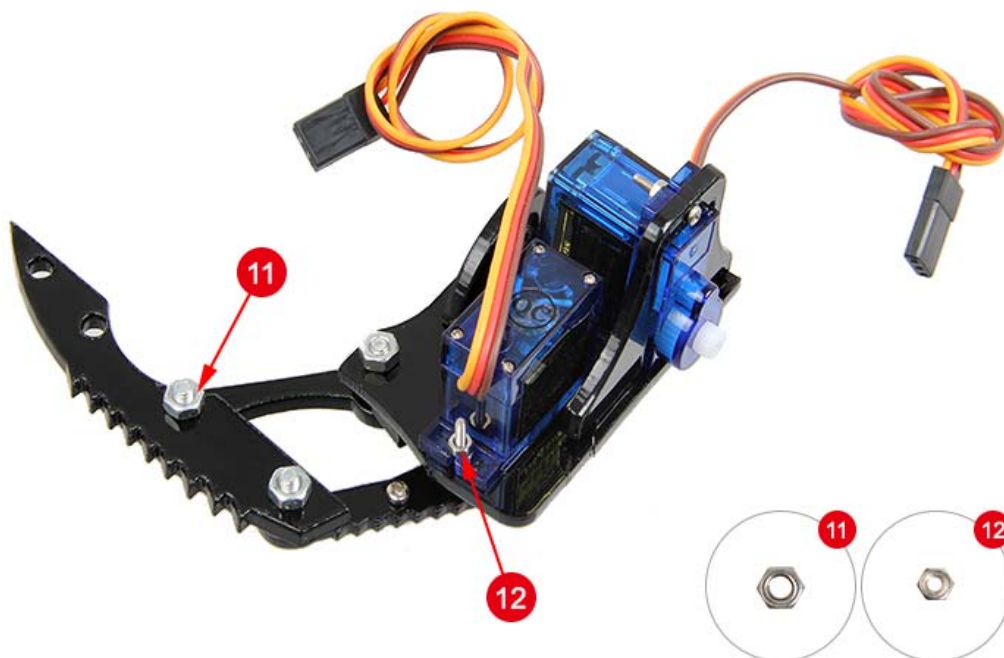


### Step 8

Mount the part finished in step 7 up on the part finished in step 4. Block up the rocker limb with the pad (part 17); screw it up with part 8 and 11, assemble the rest limbs in the same way.



(Front part)

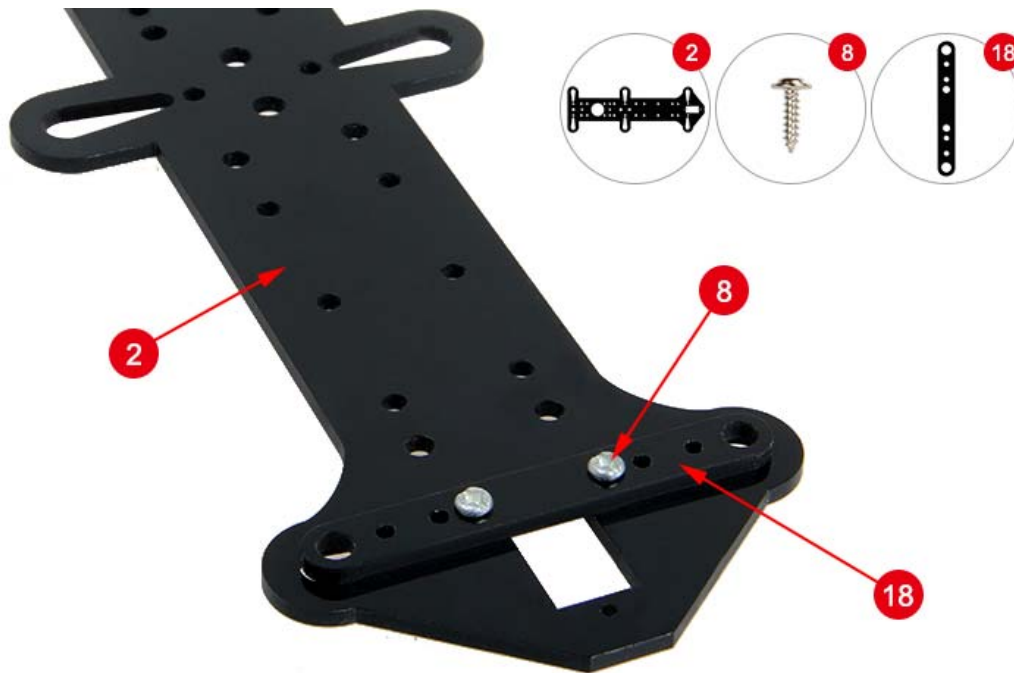


(Back part)



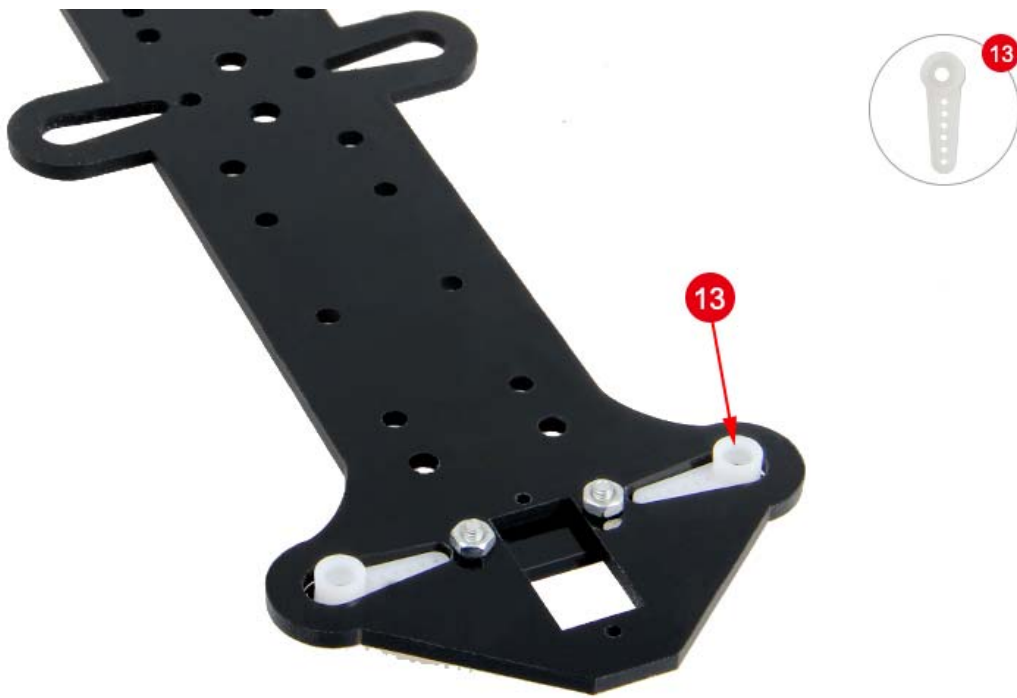
### Step 9

Tighten part 18 up on part 2 with a pair of screw and screw nut (part 8 and part 11). Assemble the rest 2 part 17 on the acrylic sheet in the same way.



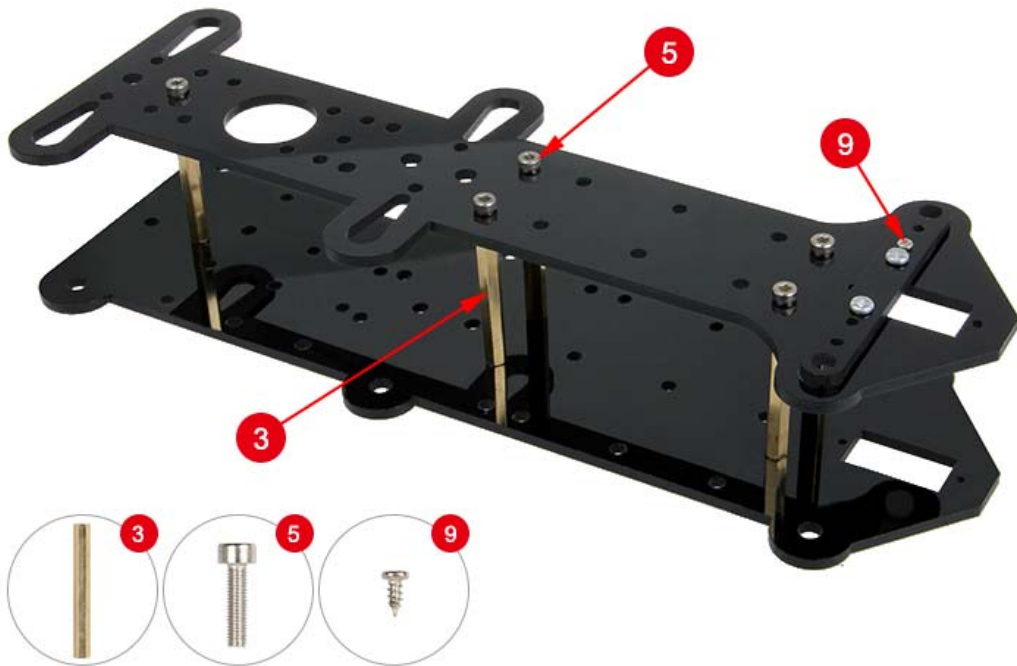
### Step 10

Insert the part 13 (the servo fittings) into the following place. Screw them up with a round head screw (part 9).



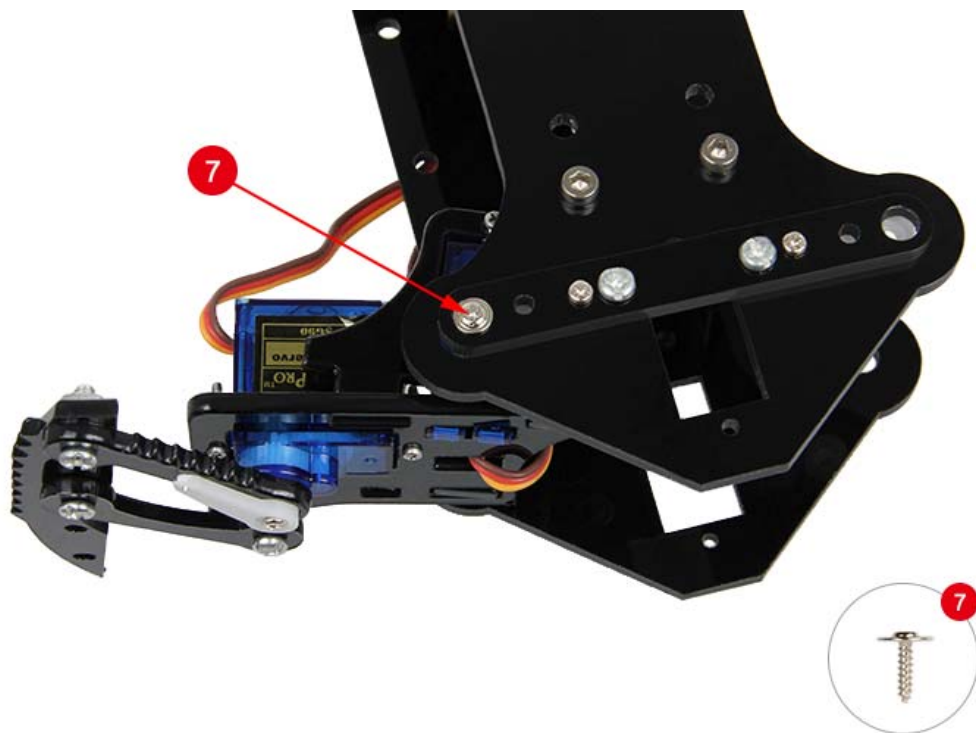
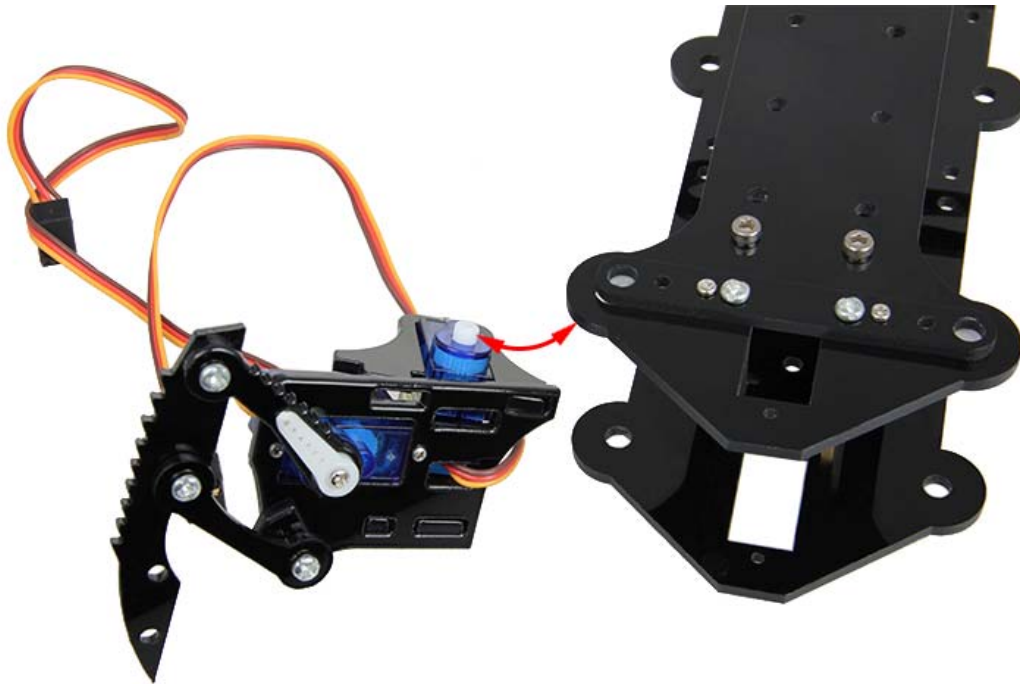
Step 11

Connect the top and bottom main body sheet with 5 brass straight pins (part 3) and Hexagon socket head cap screws (part5). Notice the mounting holes. Both top and bottom part should be screwed up.



Step 12

Fix the "leg" assembled in step 8 into the following place (showing with the red arrow) with a self-tapping screw (part 13).



step13

Fix the servo up with round head screw (part 4) and a screw nut (part 10) to on the bottom sheet to ensure the stability of the servo. So far we have finished one "leg"; you can assemble the rest 5 legs referring to the above steps.

