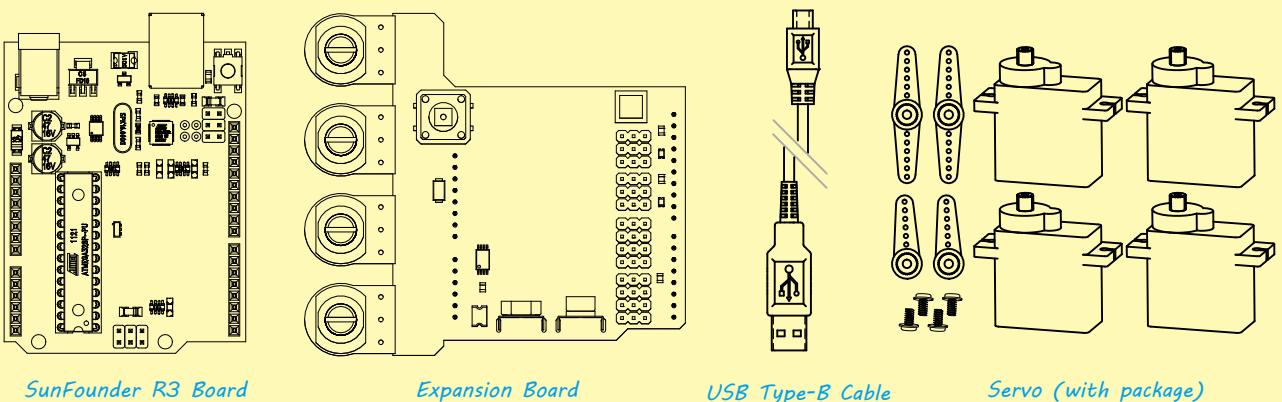
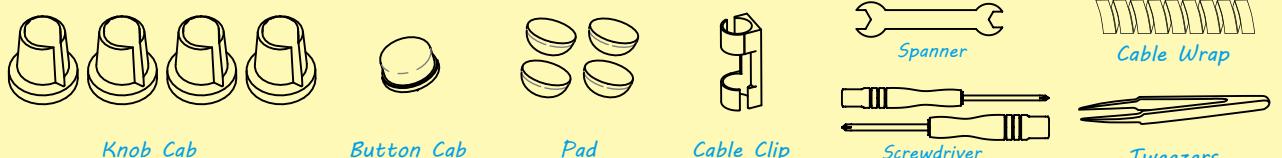
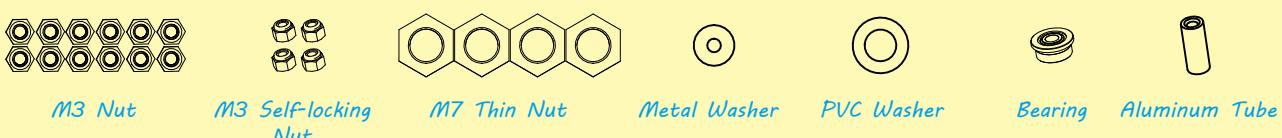
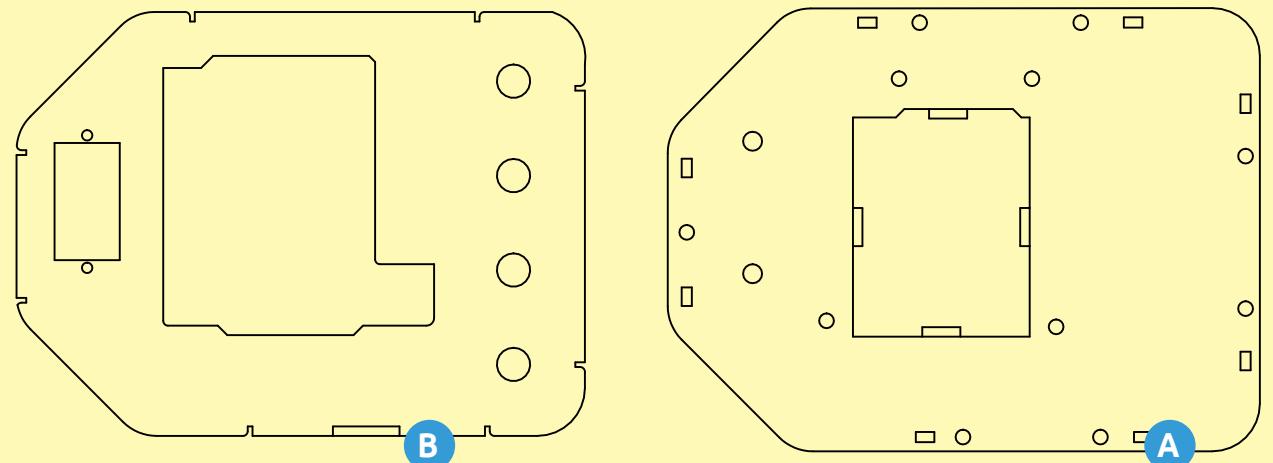
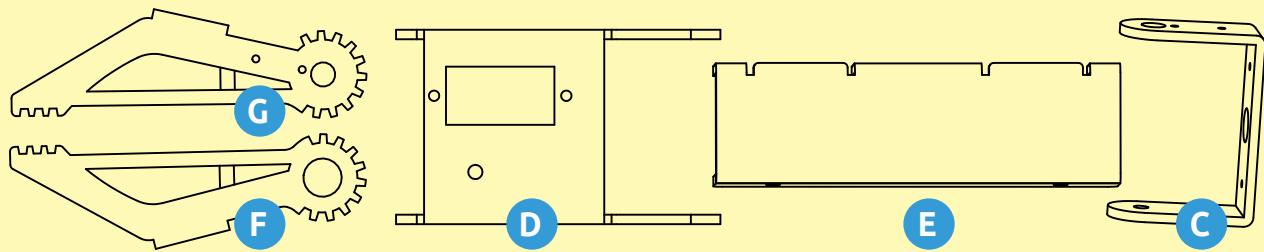


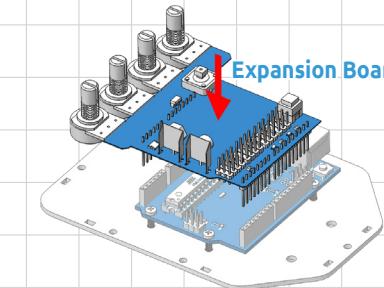
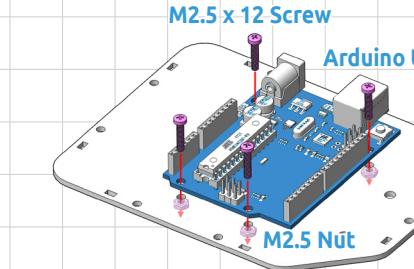
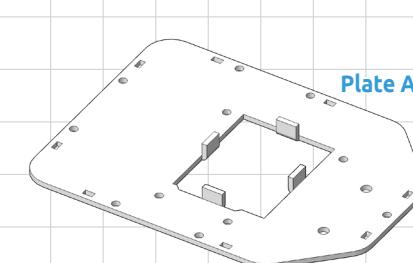
SUNFOUNDER ROLLARM KIT

Get tutorial at: rollarm.rtfd.io

Z0202V11



ASSEMBLE

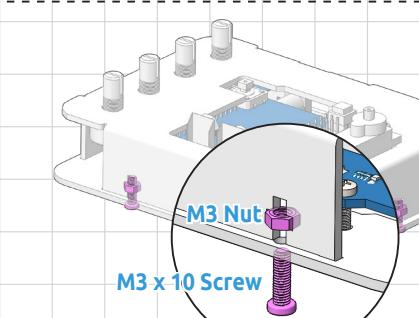
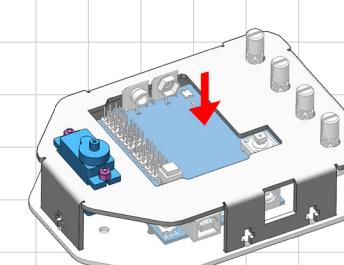
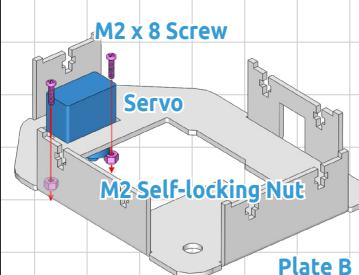


Step 1

Place **Plate A** as shown, with the 4 square bumps facing up.

Step 2

Secure the **SunFounder R3 Board** to the **Plate A**.

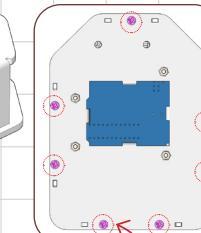


Step 4

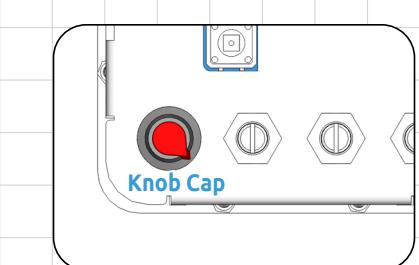
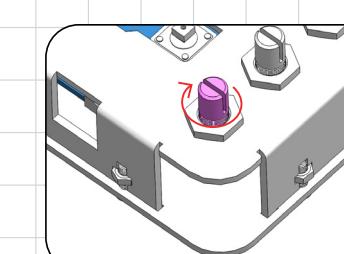
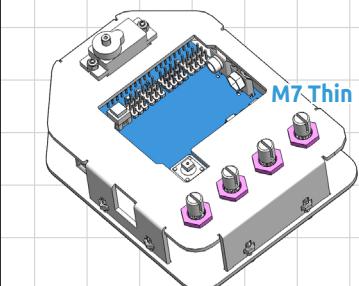
Insert the **Servo** into the **Plate B** from the bottom up and secure it. You can use the **Spanner** to help you tighten the self-locking nuts.

Step 5

Turn the **Plate B** over and cover the **Plate A**.



There are 7 sets of screws and nuts that you need to secure!



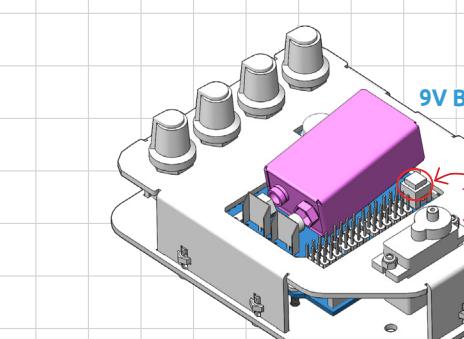
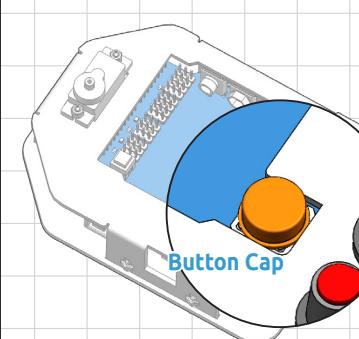
Step 7

Put **Thin Nuts** for 4 potentiometers.

Step 8

Turn the potentiometer clockwise to the end.

Repeat steps 8 & 9 to put on the other three knob caps.



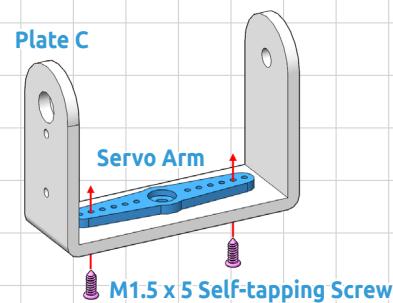
Step 10

Put on the **Button Cap** as shown.

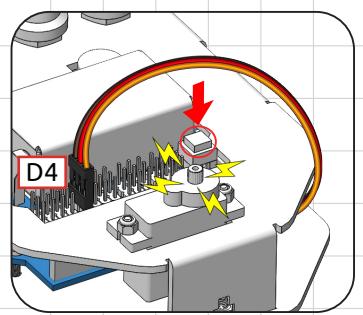
Step 11

Insert the **9V battery**, and let the hexagonal connector cover the round connector.

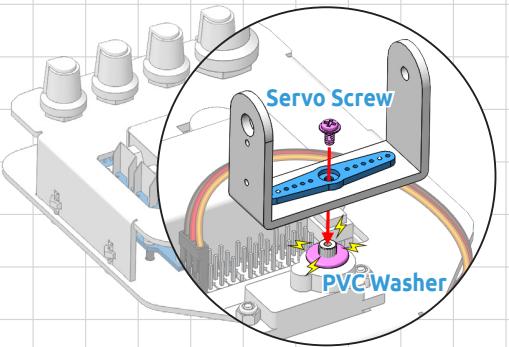
The next steps need to adjust the servos to 0 degrees, please enter the online tutorial (rollarm.rtfd.io), complete the "Calibrate the servo angle" chapter to continue the assembly.



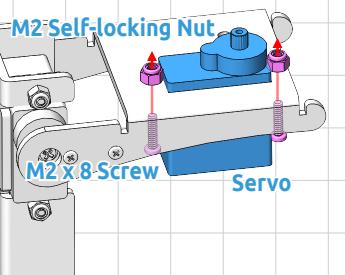
Step 12
Mounting a **Servo Arm** on the **Plate C**.



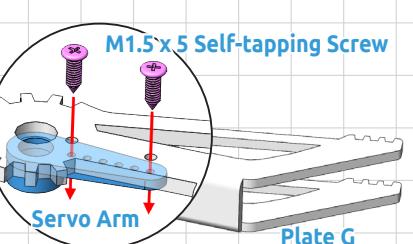
Step 13
Connect the Servo to the pin **D4**, turn on the power switch, and the **Servo** will be adjusted to the 0° position.



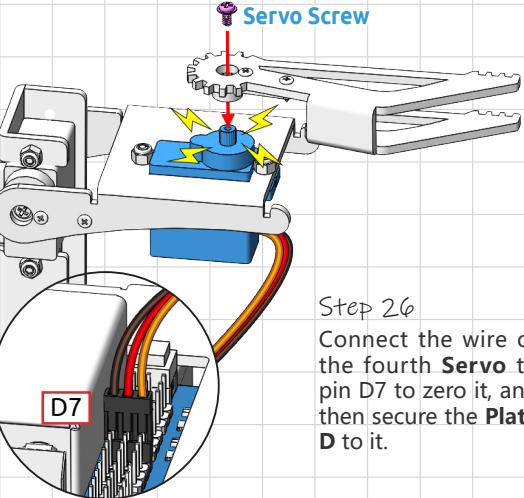
Step 14
Insert the **Plate C** into the servo shaft, and don't forget to put a **PVC Washer** between them.



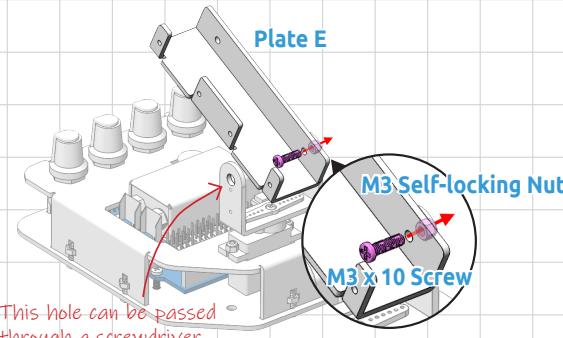
Step 24
Insert the fourth **Servo** into the **Plate D** and secure it with screws and self-locking nuts.



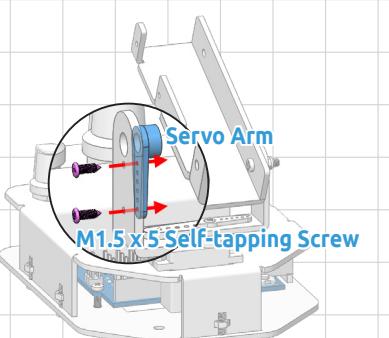
Step 25
Mounting a **Servo Arm** on the **Plate G**.



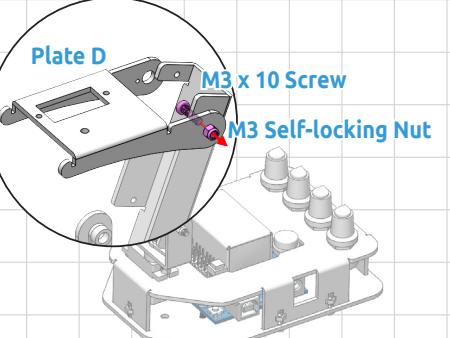
Step 26
Connect the wire of the fourth **Servo** to pin **D7** to zero it, and then secure the **Plate D** to it.



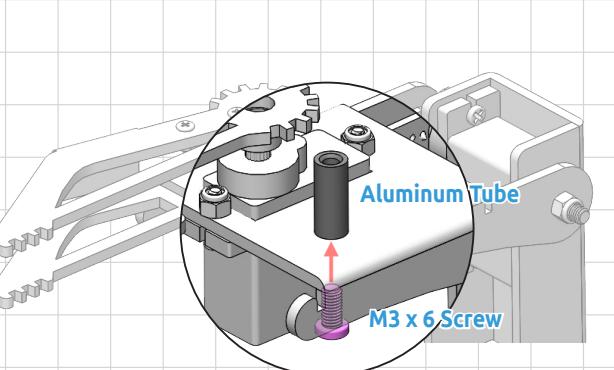
Step 15
Connect the **Plate C** and the **Plate E** with screws and self-locking nuts.



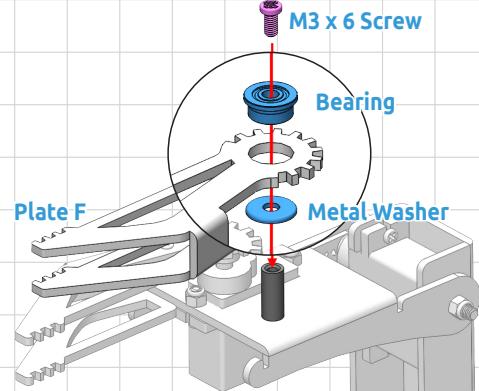
Step 16
Attach another **Servo Arm** to the **Plate C**.



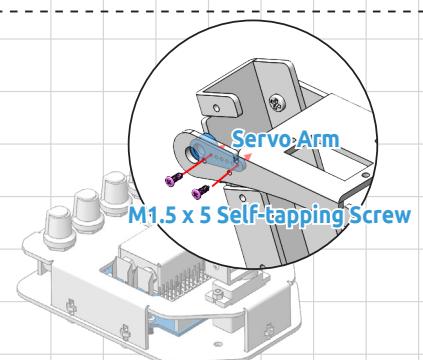
Step 17
Connect **Plate D** and **Plate E** as in step 15.



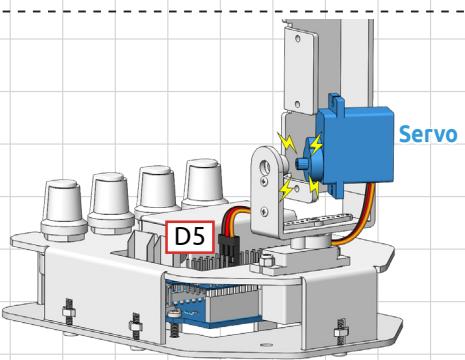
Step 27
Secure an **Aluminum Tube** on **Plate D**.



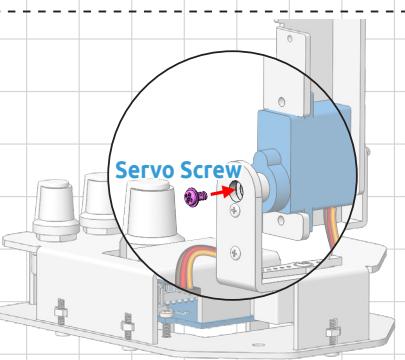
Step 28
Attach **Plate F** to the **Aluminum Tube**.



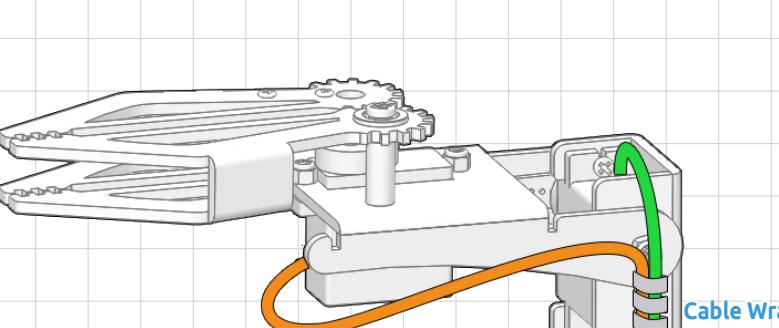
Step 18
Mounting a **Servo Arm** on the **Plate D**.



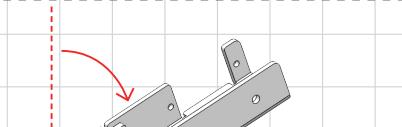
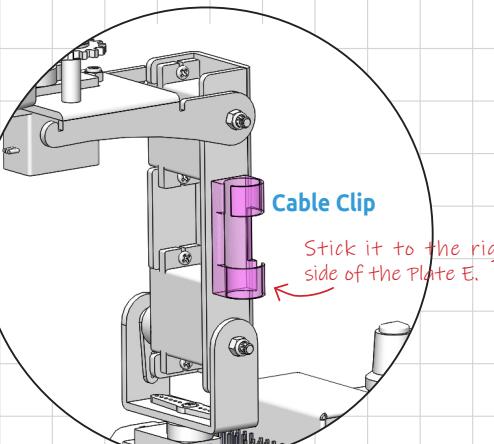
Step 19
Before inserting the **Servo** into the **Servo Arm**, you need to plug its cable into pin **D5**, and then power on the robot.



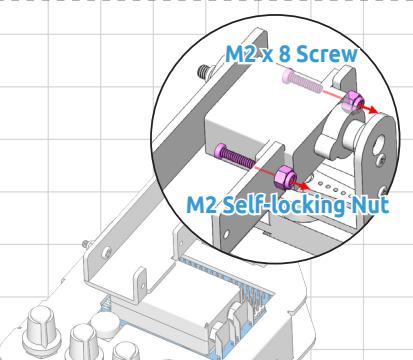
Step 20
Screw on the **Servo Screw**, note that the **Servo** needs to be perpendicular to the base.



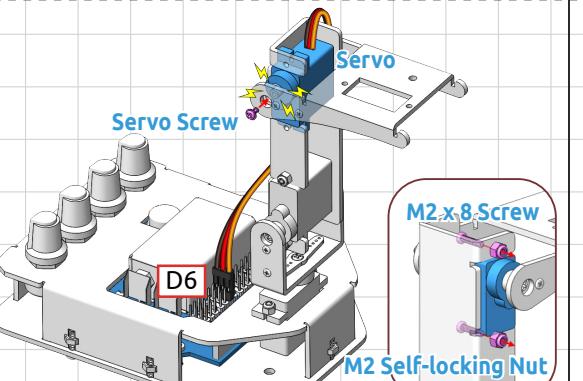
Step 29
Make sure all servos are connected properly. Use a **Cable Warp** to bunch up all the wires. Finally, put the **Cable Warp** into the **Cable Clip**.



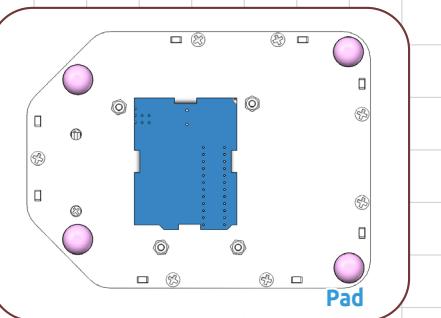
Step 21
Turn off the power and let **Plate E** horizontally, which can make the next step easier.



Step 22
Screw in the screws and self-locking nuts to secure the **Servo**.



Step 23
Refer to steps 19 through 21 to mount the third **Servo**.



Step 30
Finally, four **Pads** are glued under the base. Now the assembly is complete.

