

# MoonMech

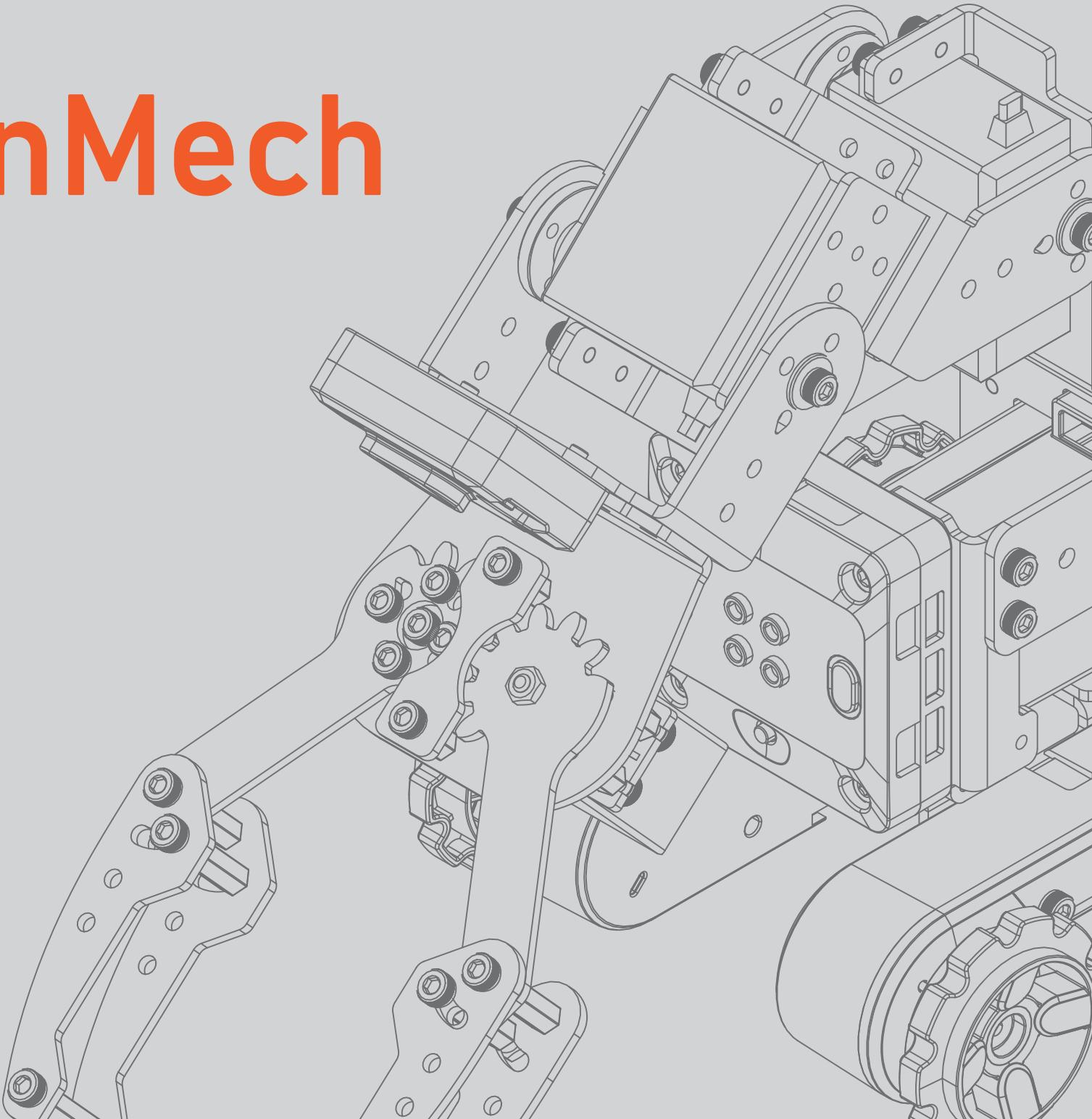
## Manual

**235**

Pieces

**2 h**

Estimated  
Build Time



# READ BEFORE START

Dear parents, please read this guide carefully before assembling for the safety of your children while they are playing with the MoonBot Kit.

This product is designed for children aged 8 and older. Younger kids should play under the guidance of parents. Please assemble according to this manual step by step. Wrong assembly may cause broken parts or abnormal behaviors.

## WARNING:

1. Be cautious of sharp parts of metal pieces, that running parts may cause pinch.
2. Please assemble or disassemble them carefully.
3. Please keep this product away from heat or water.

## CAUTIONS:

1. DO NOT twist the servos when Power is ON.
2. DO NOT throw or drop Robot or any parts.
3. DO NOT cover the camera, as covering the camera will affect the recognition result of your MoonBot.

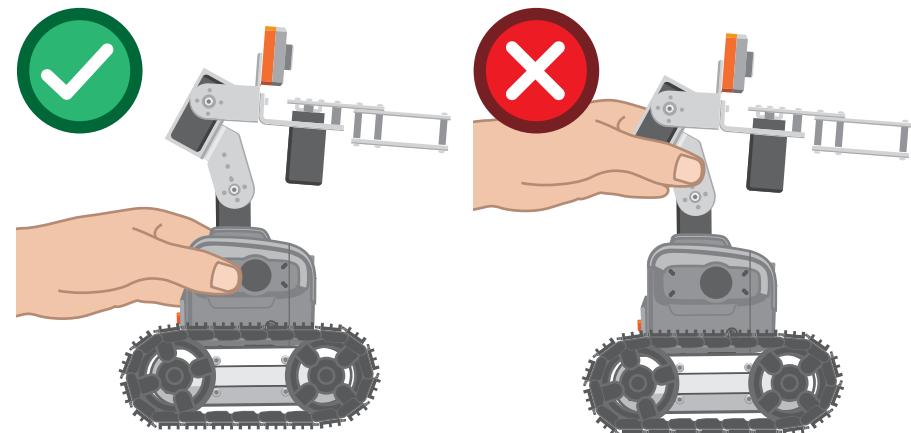
## POWER MODULE(Battery)

1. Do not disassemble the lithium battery module to avoid dropping, impacting or squeezing the lithium battery. Avoid using it in humid, low temperature (below 0 degree) and high temperature (above 50 degree). Keep away from fire and do not soak. ;
2. The charging process is a non-linear process. The first 95% of the electricity will be charged quickly, and the last 5% of the electricity will be used for a long time, which is normal;
3. Please charge when the power is at a low level. If the

battery is charged when the battery is at LED4 (100%), LED4 (100%) may be flashing at all times. At this time, it is not necessary to continue charging, and it can be used directly; 4. Although the lithium battery has a perfect protection circuit inside, it is necessary to avoid the following situations during use, overcharging, overdischarging, electrode short circuit, current backflow, high current output; 5. When the lithium battery module is not used for a long time, please keep the lithium battery at 75% of the power for storage; 6. Lithium battery has a certain service life, and its battery capacity will be attenuated with the use time. When the battery life cannot meet the daily use requirements, it is recommended to replace the new lithium battery module; 7. The waste lithium battery module should be disposed of properly and should not be discarded at will.

### **⚠ WARNING**

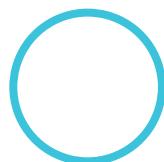
please handle the MoonMech through the body when the arm is moving.



# SYMBOLS & LEGEND



Flip viewpoints



Caution

## Screw Case

 M3X4	 M3X8	 M3X12	 COPPER COLUMN	 M3X28
 BEARING	 WASHER	 NUT	 R3035	 R3075

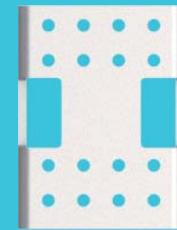
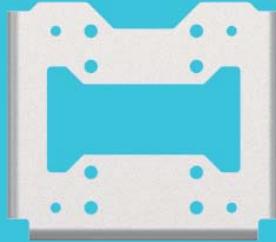


1:1

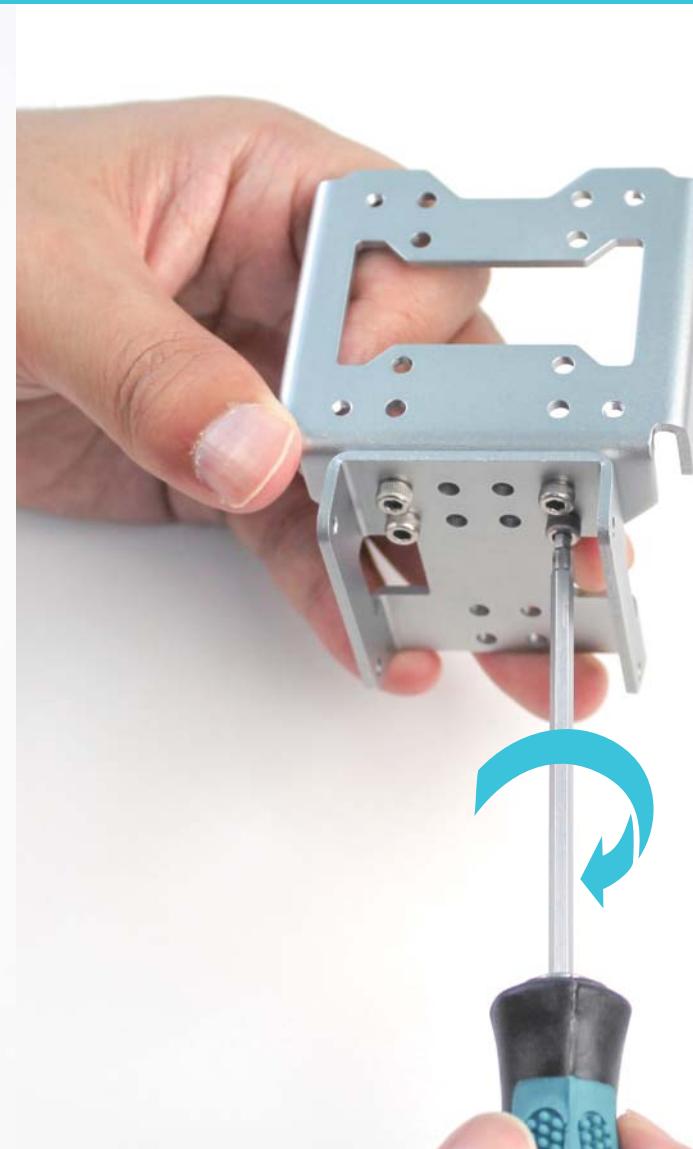
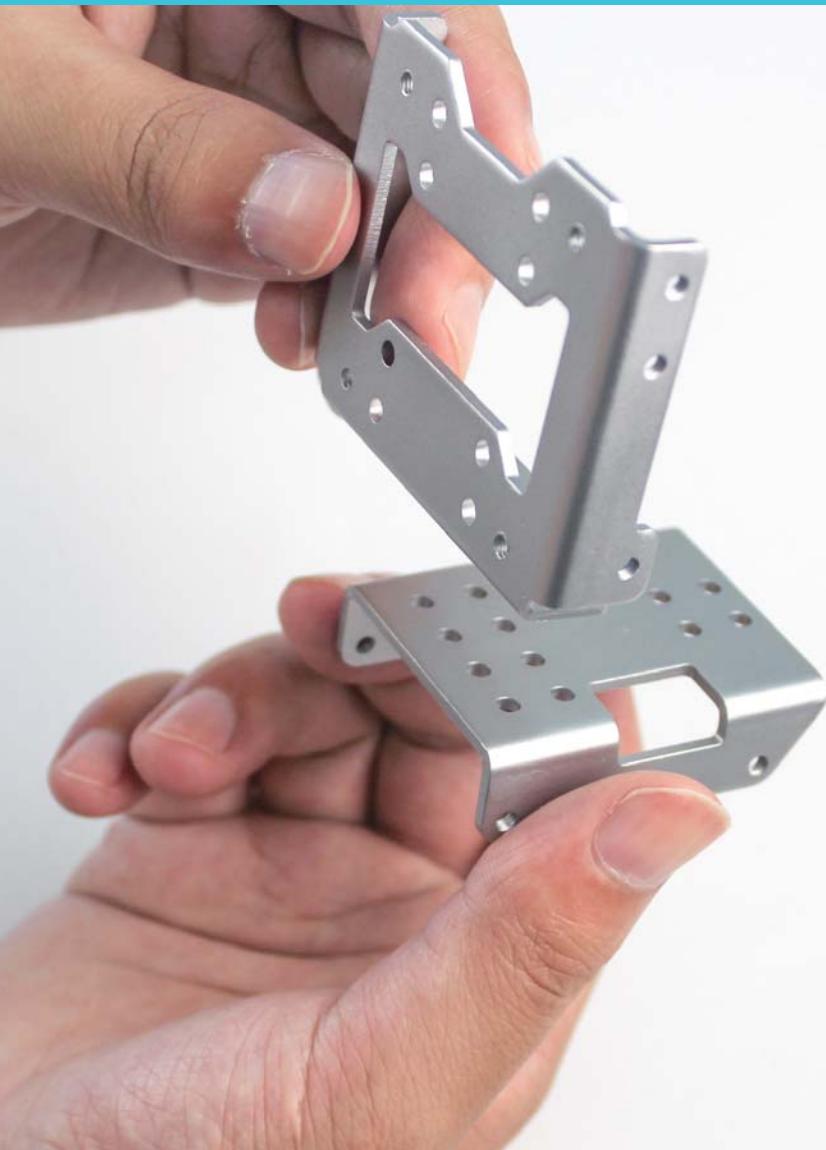


Please compare the length of the screw as shown in Figure 1:1.

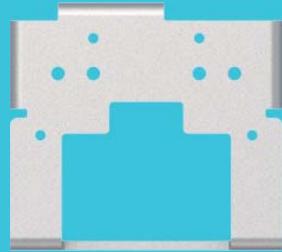
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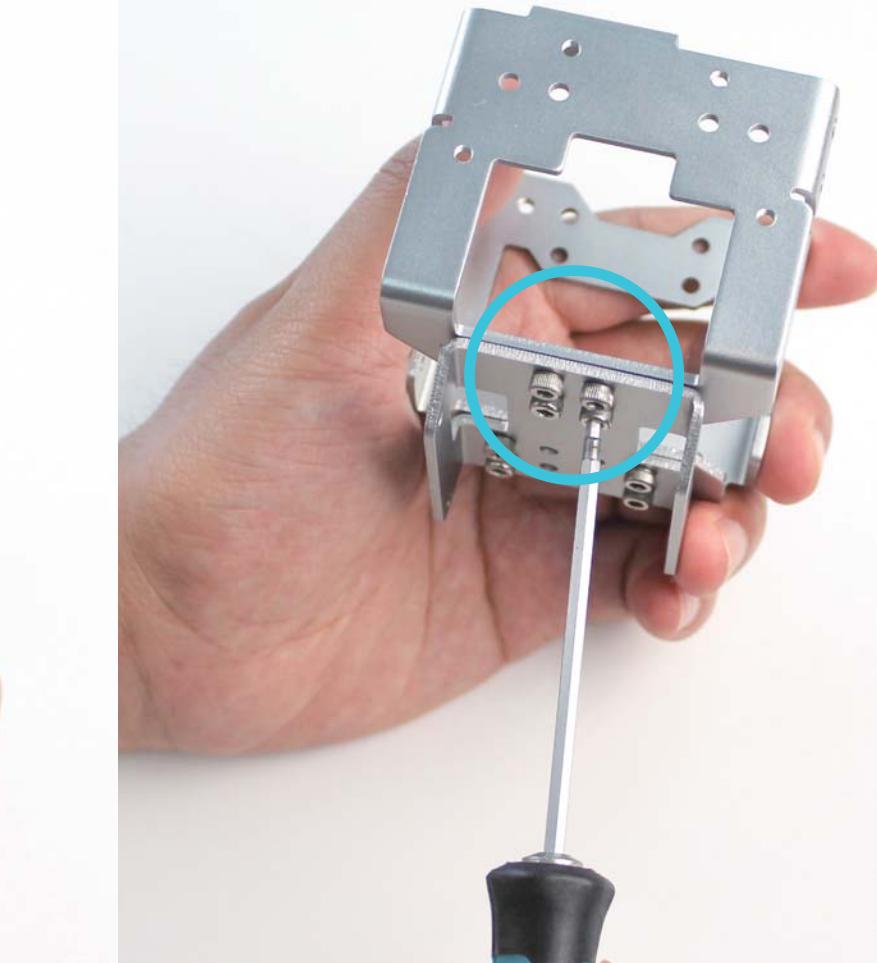
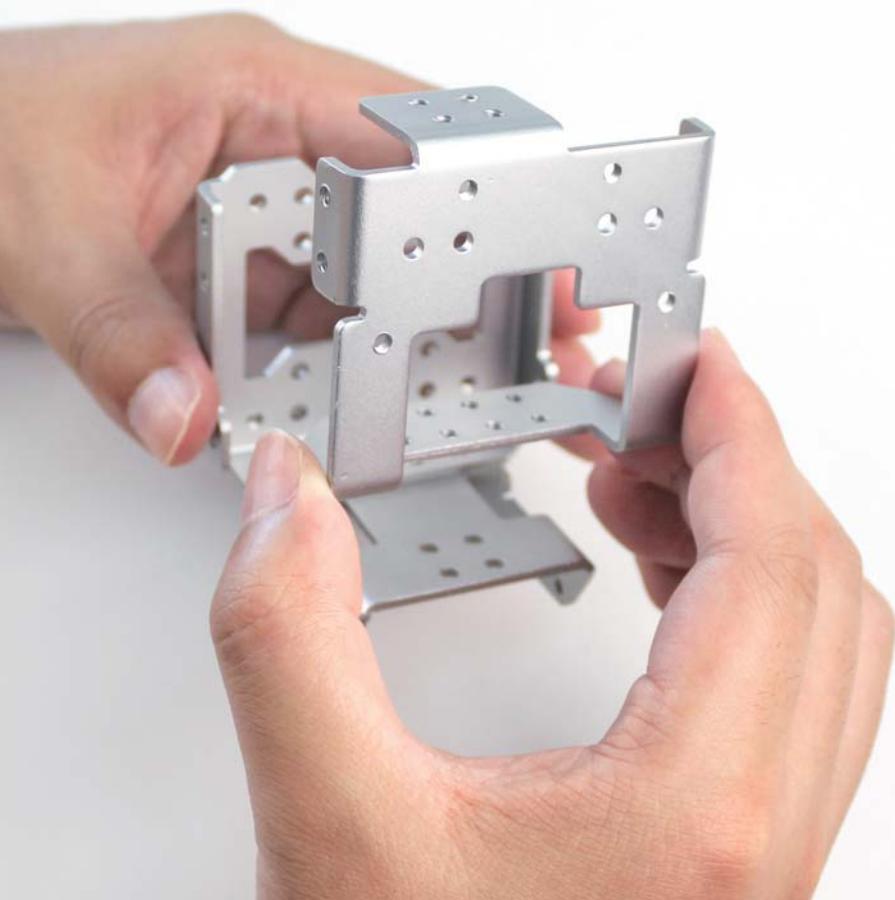
M3X4  
X4



2



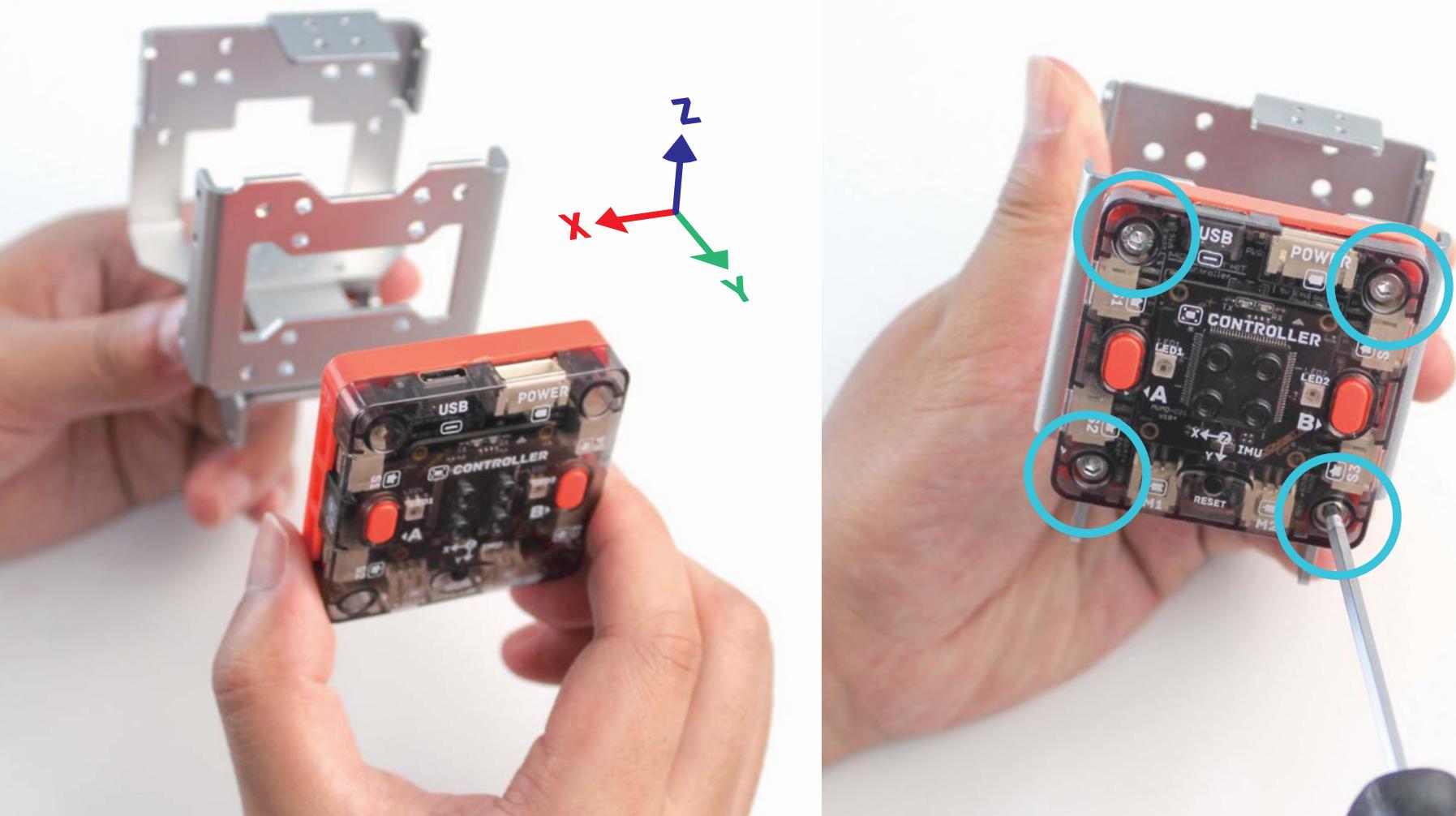
X4



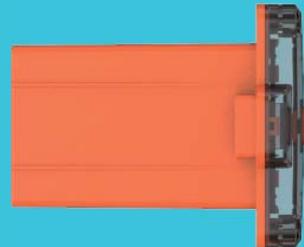
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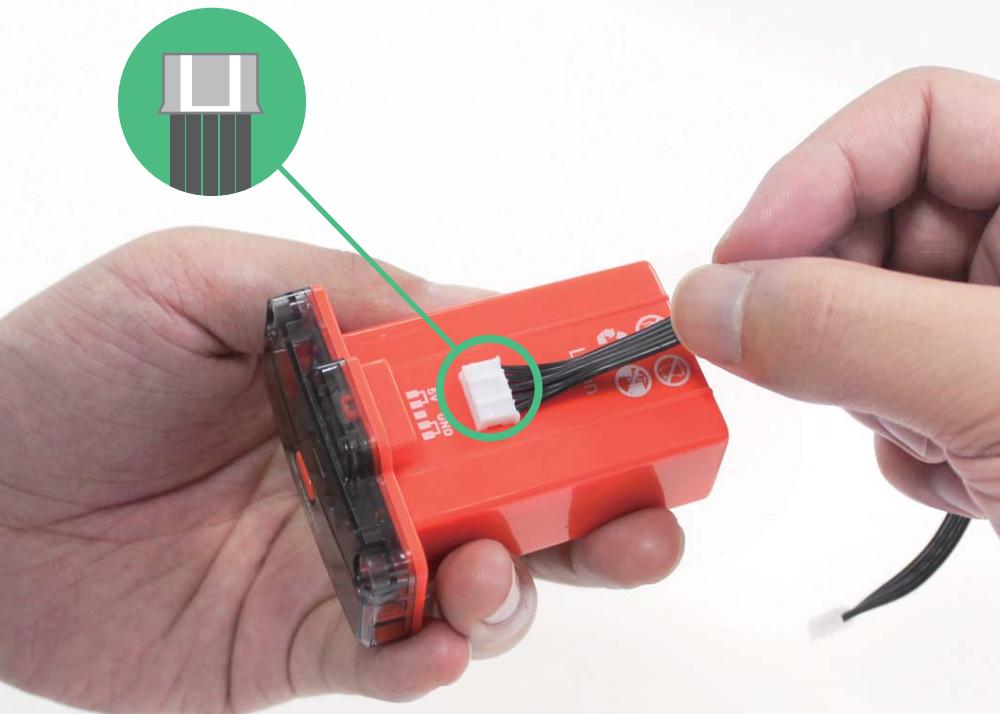
X4

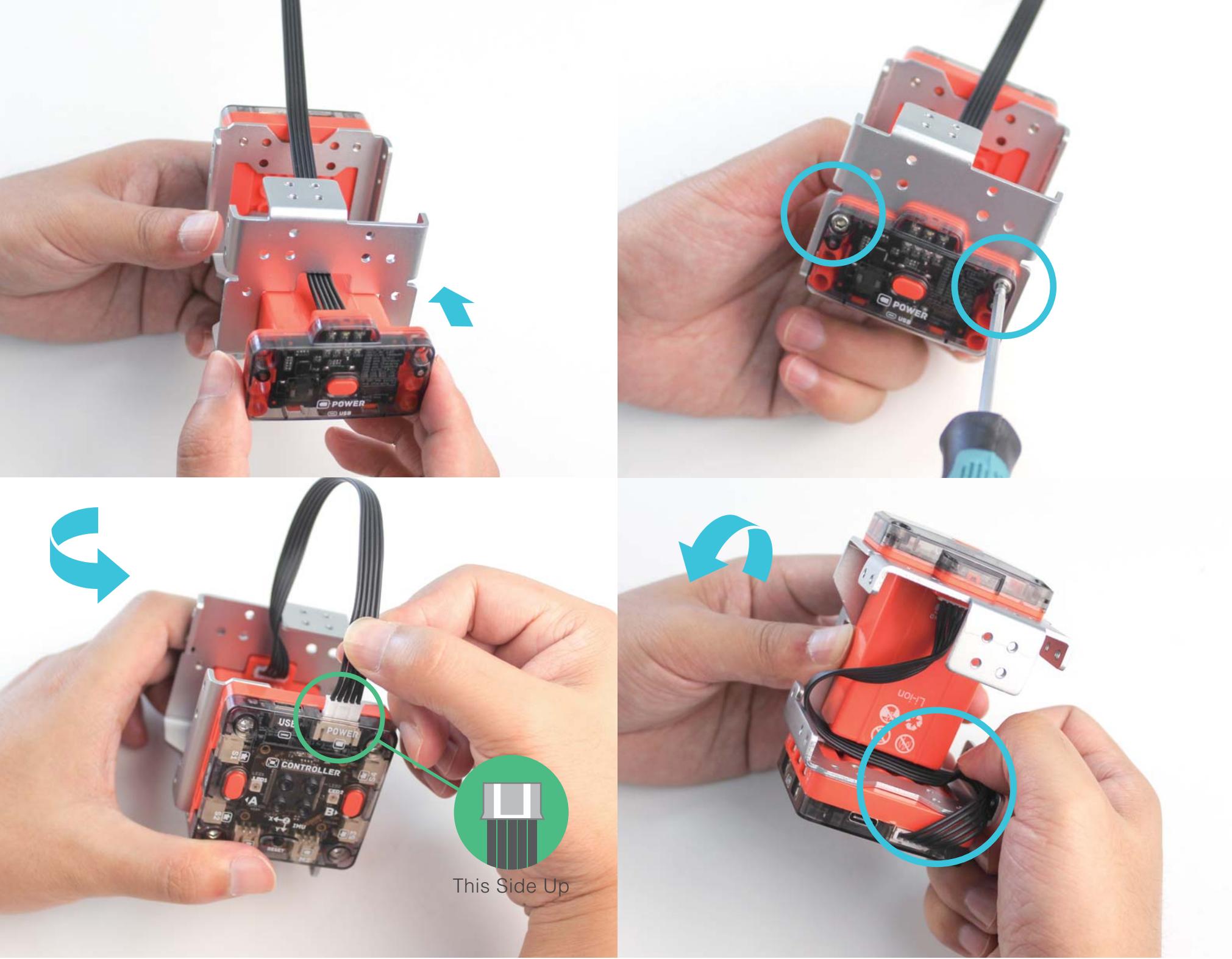


4



This Side Up

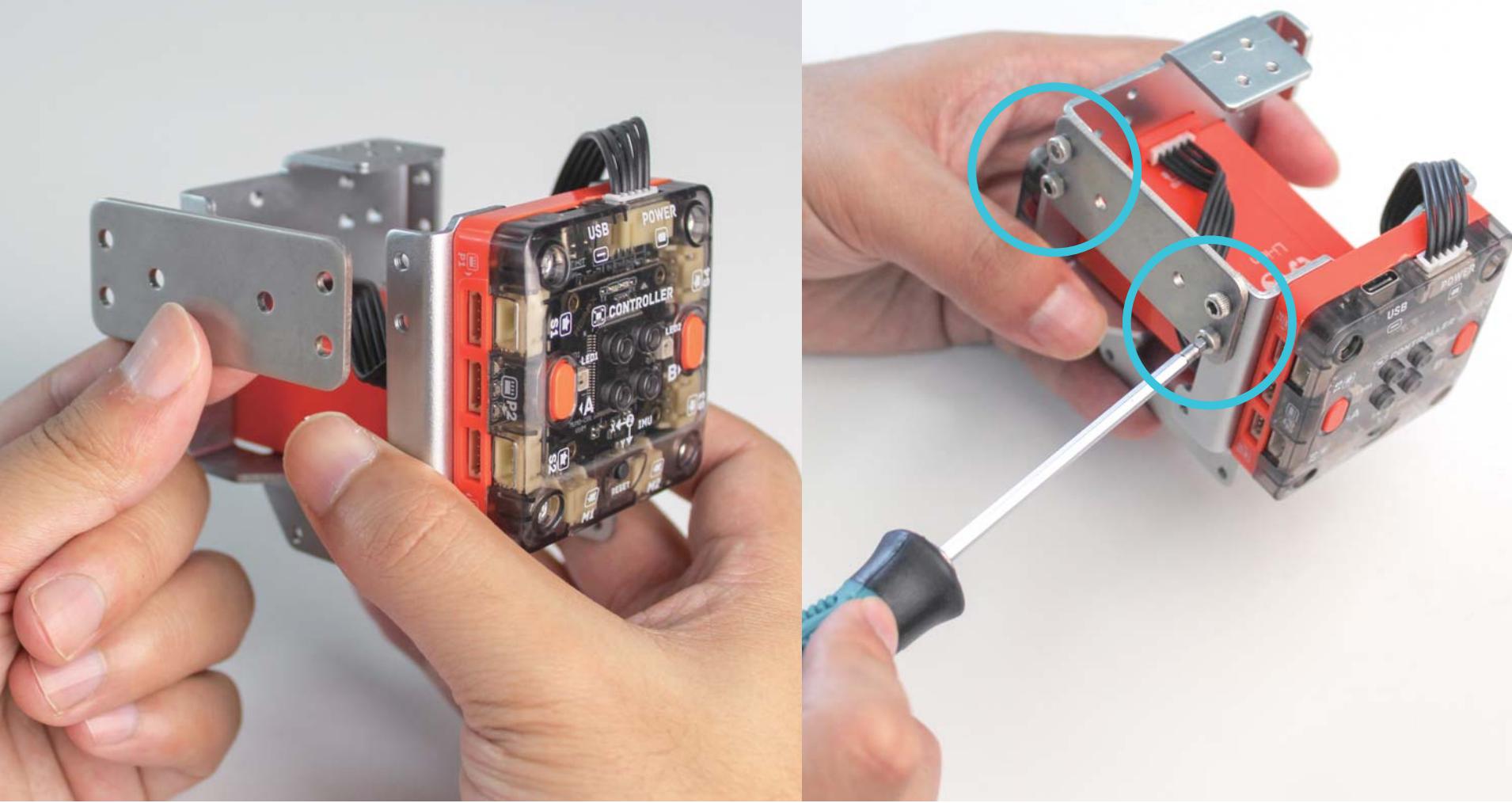




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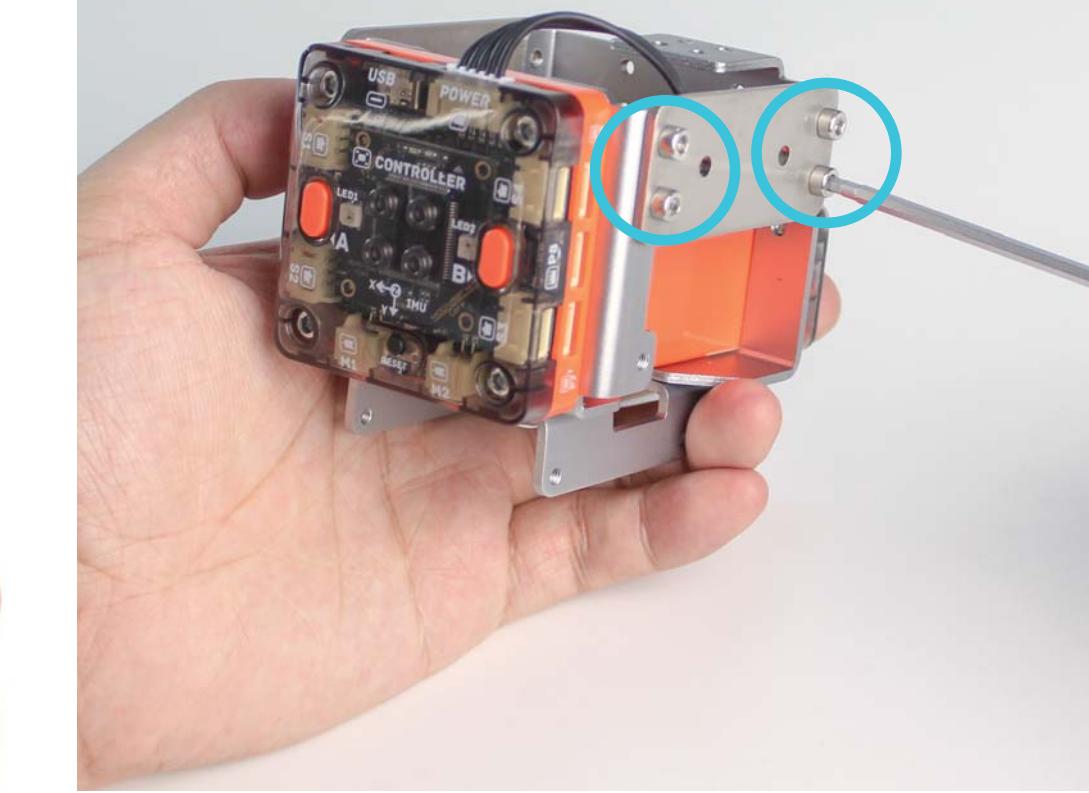
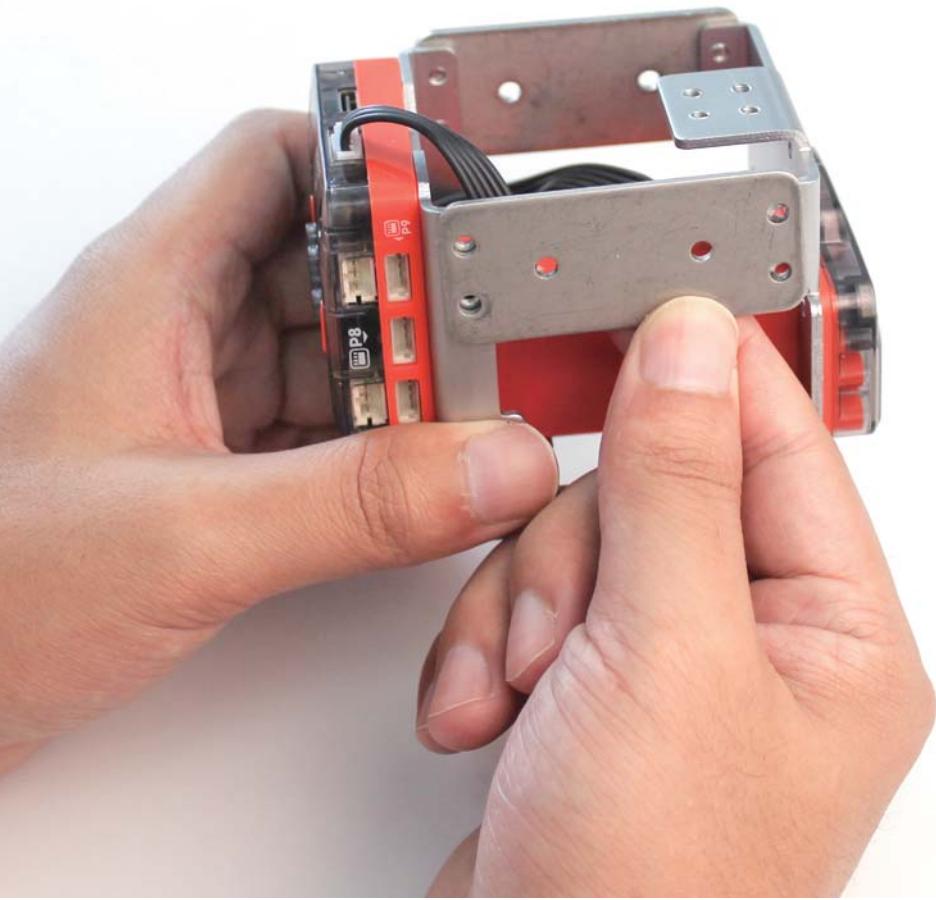
X4



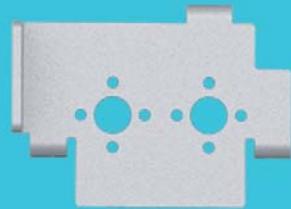
6



X4

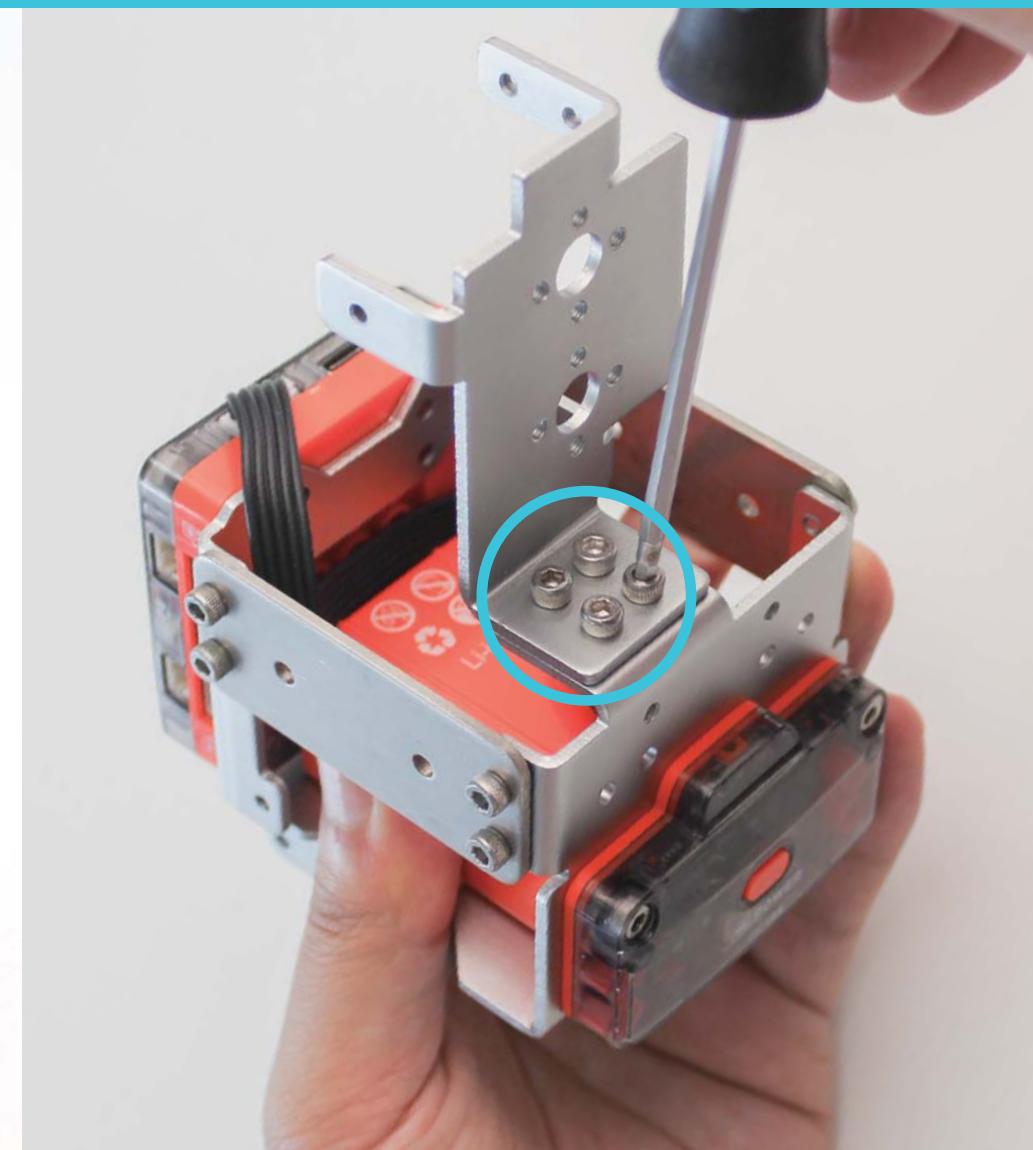
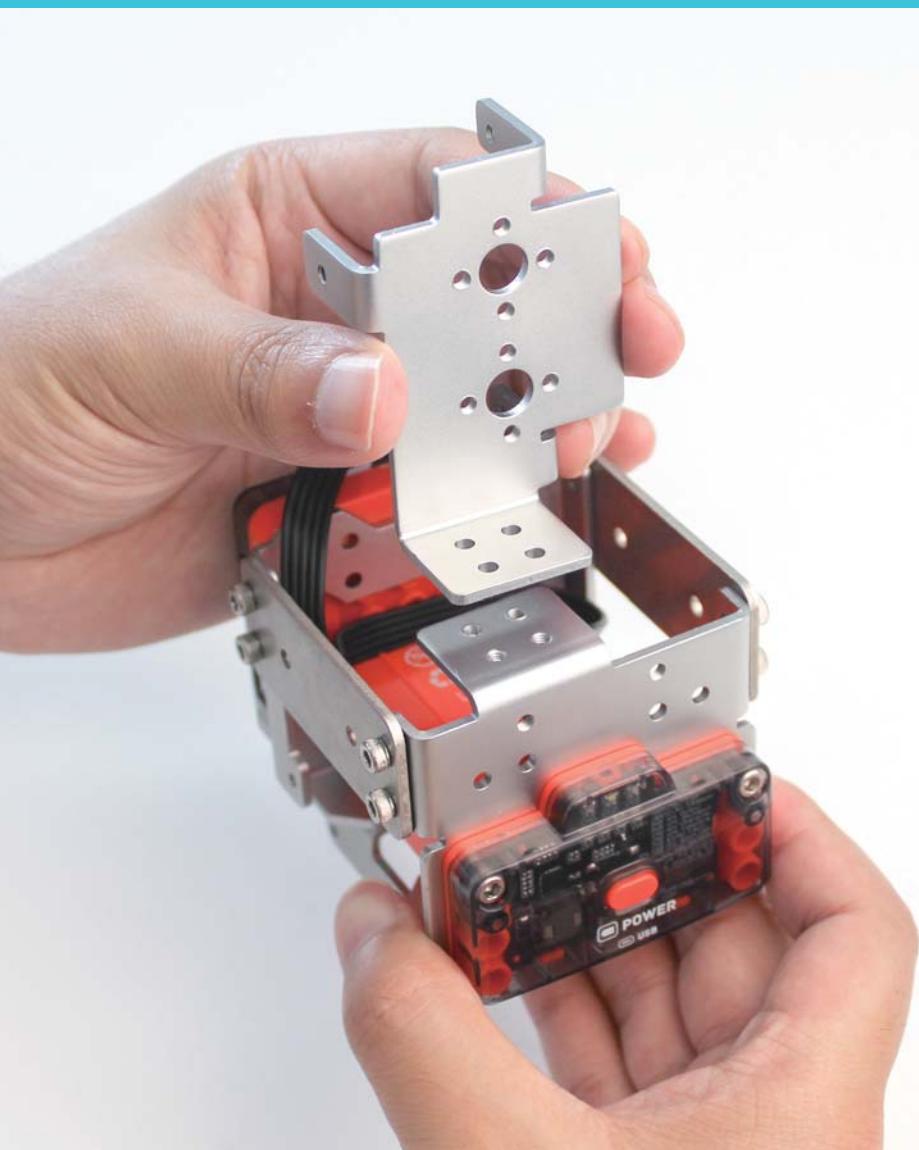


7



M3X4

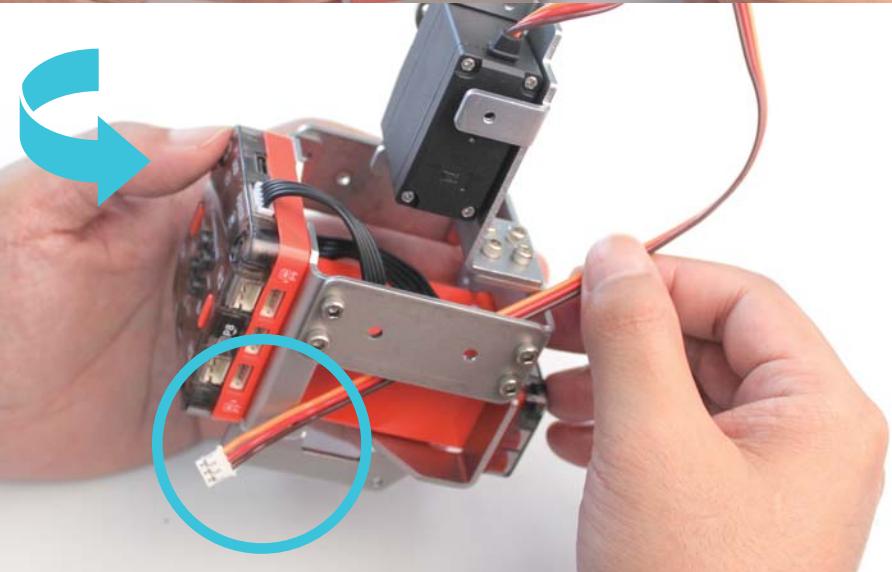
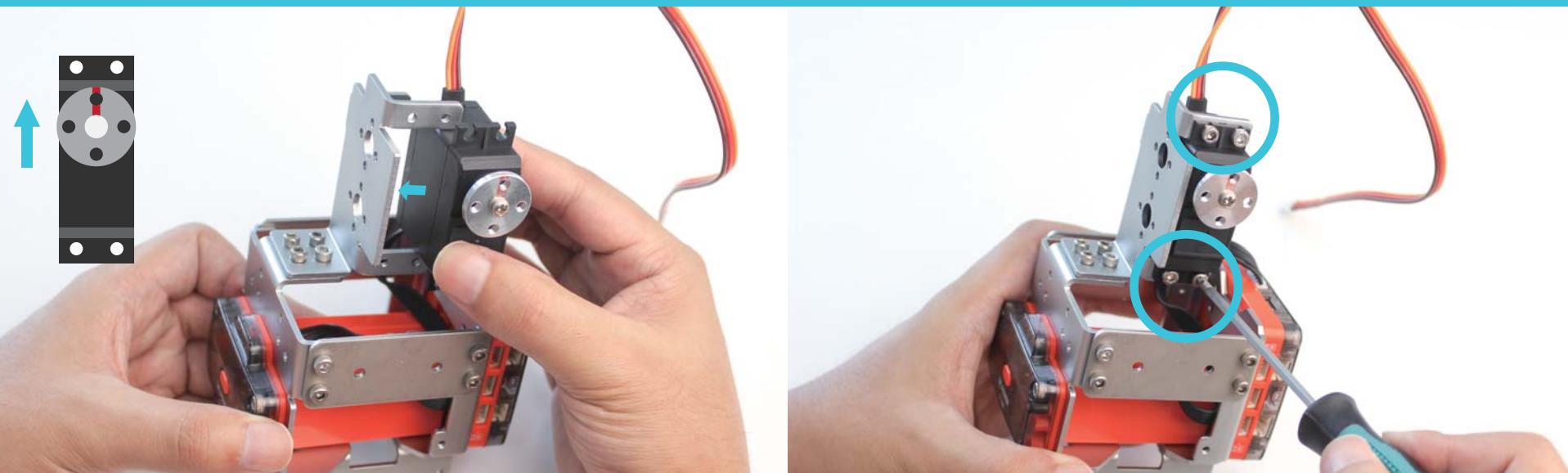
X4



8



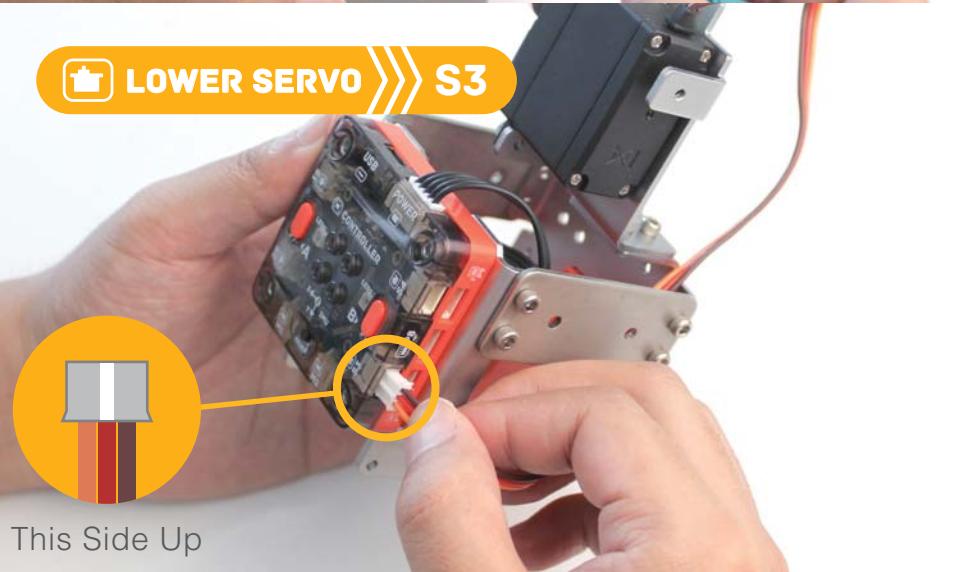
M3X4  
X4



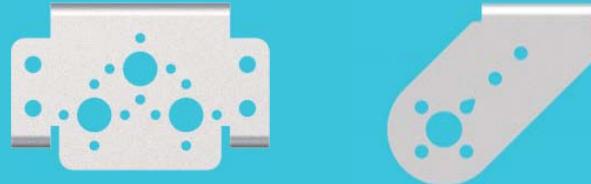
LOWER SERVO »» S3



This Side Up

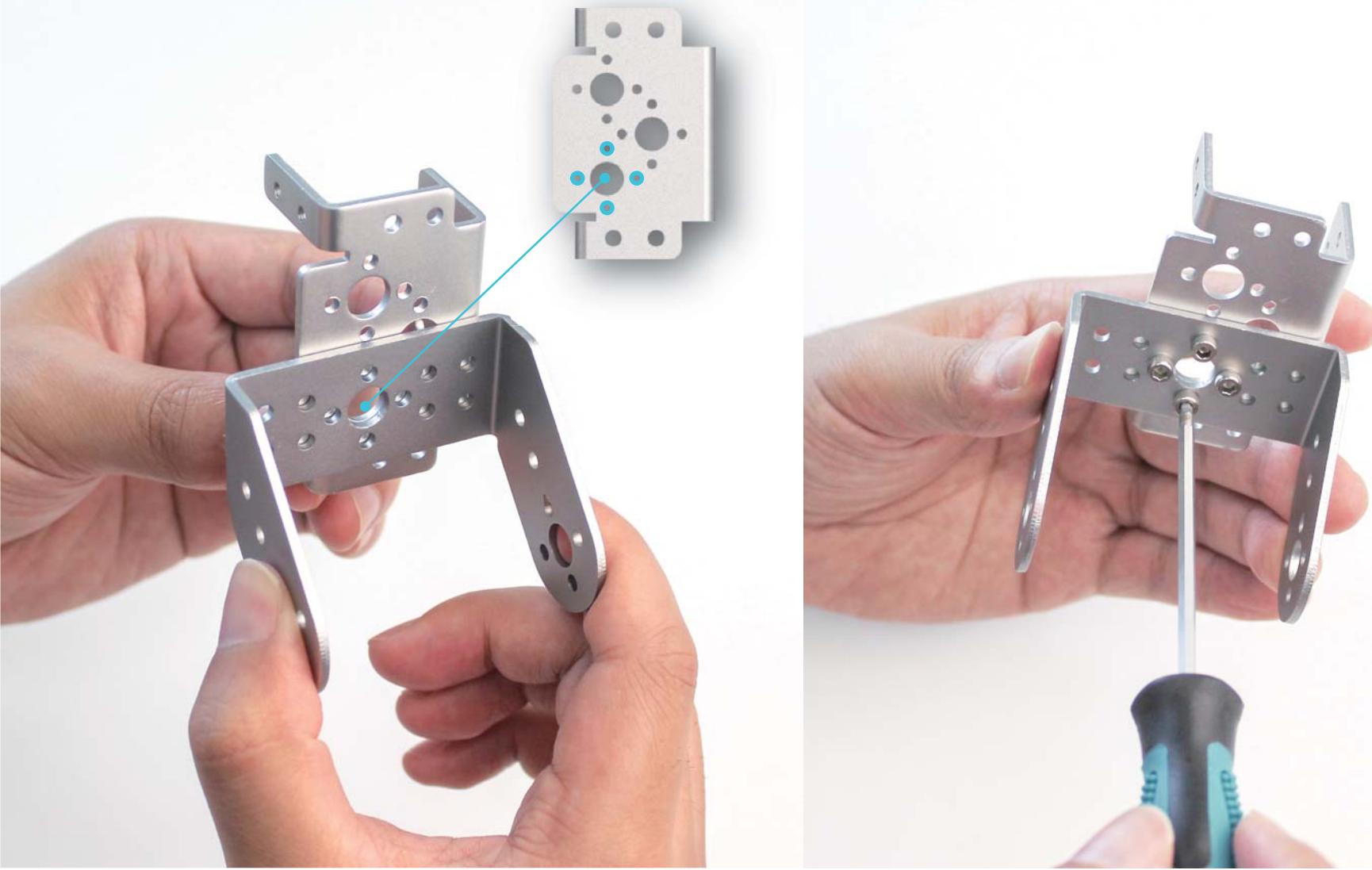


9



M3X4

X4

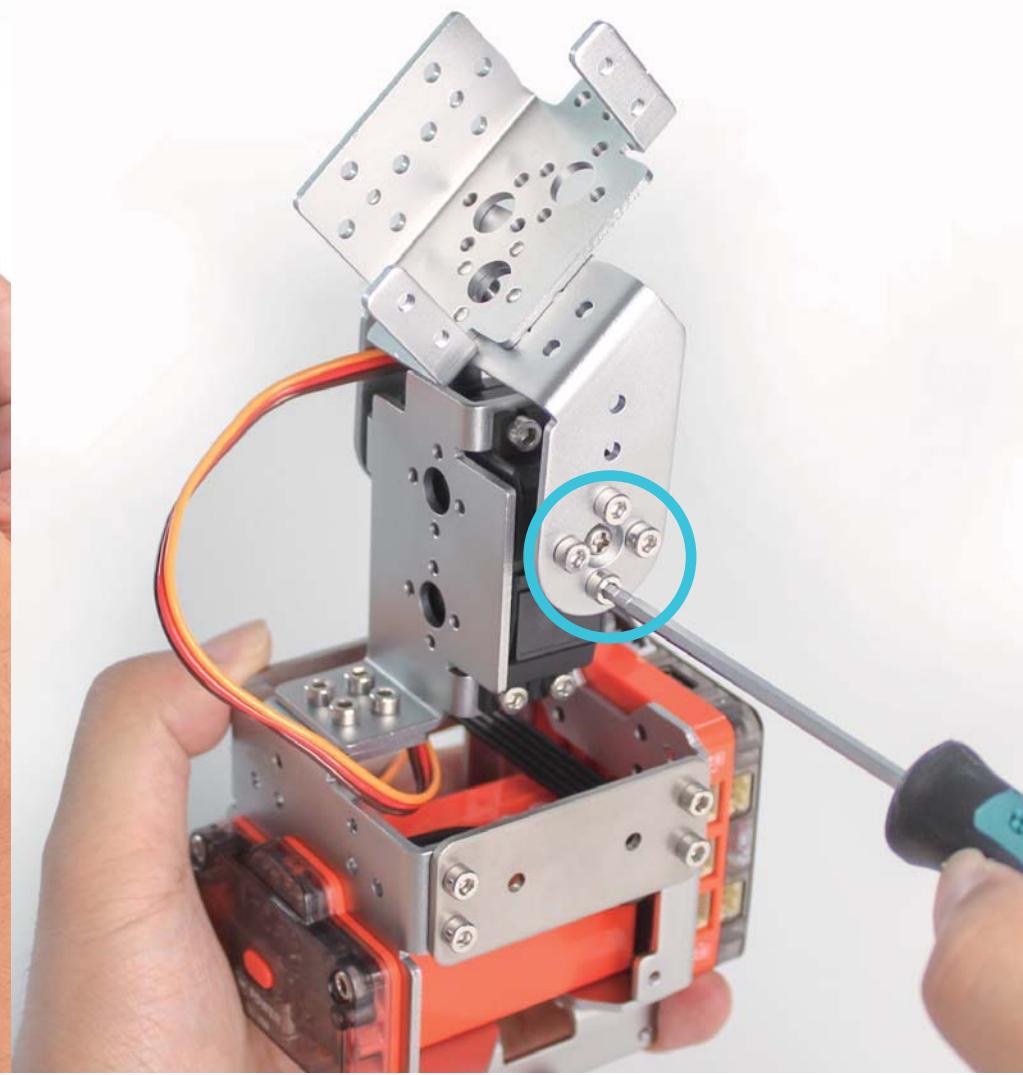
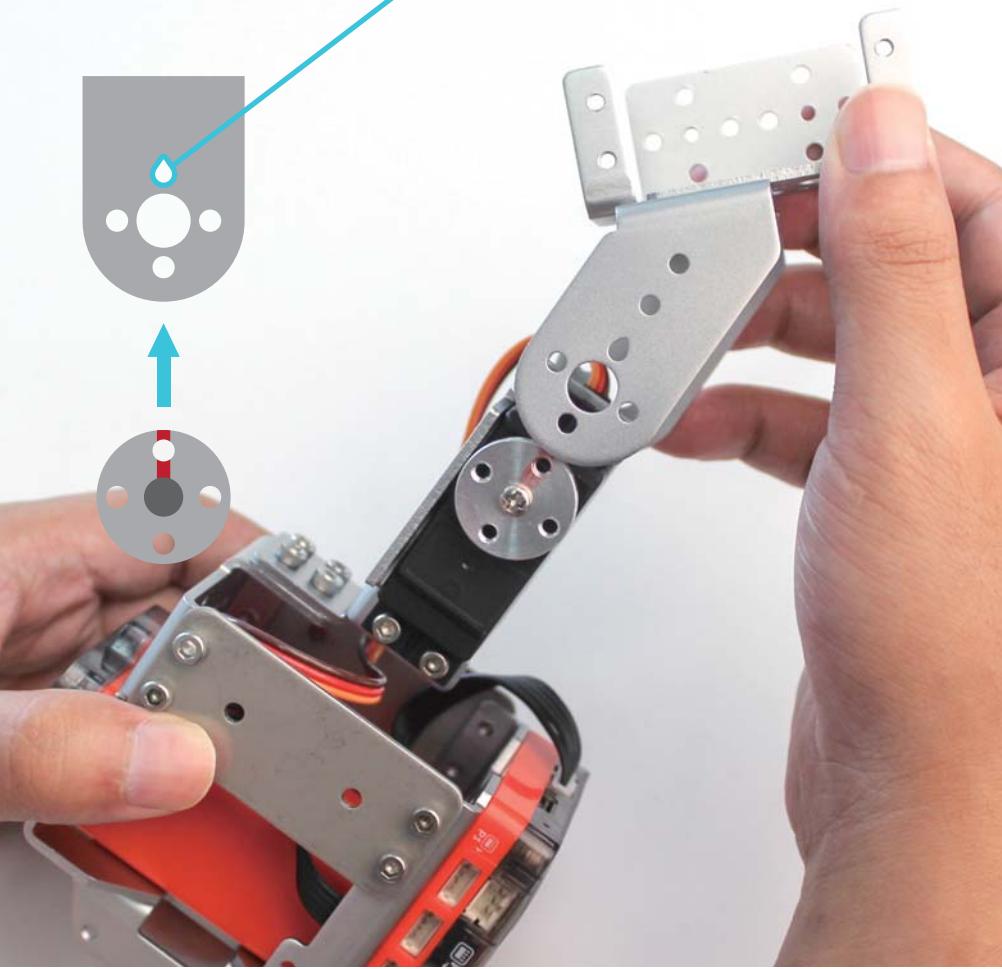


# 10



X4

 Please keep this icon indicating the direction is consistent with the servo wheel



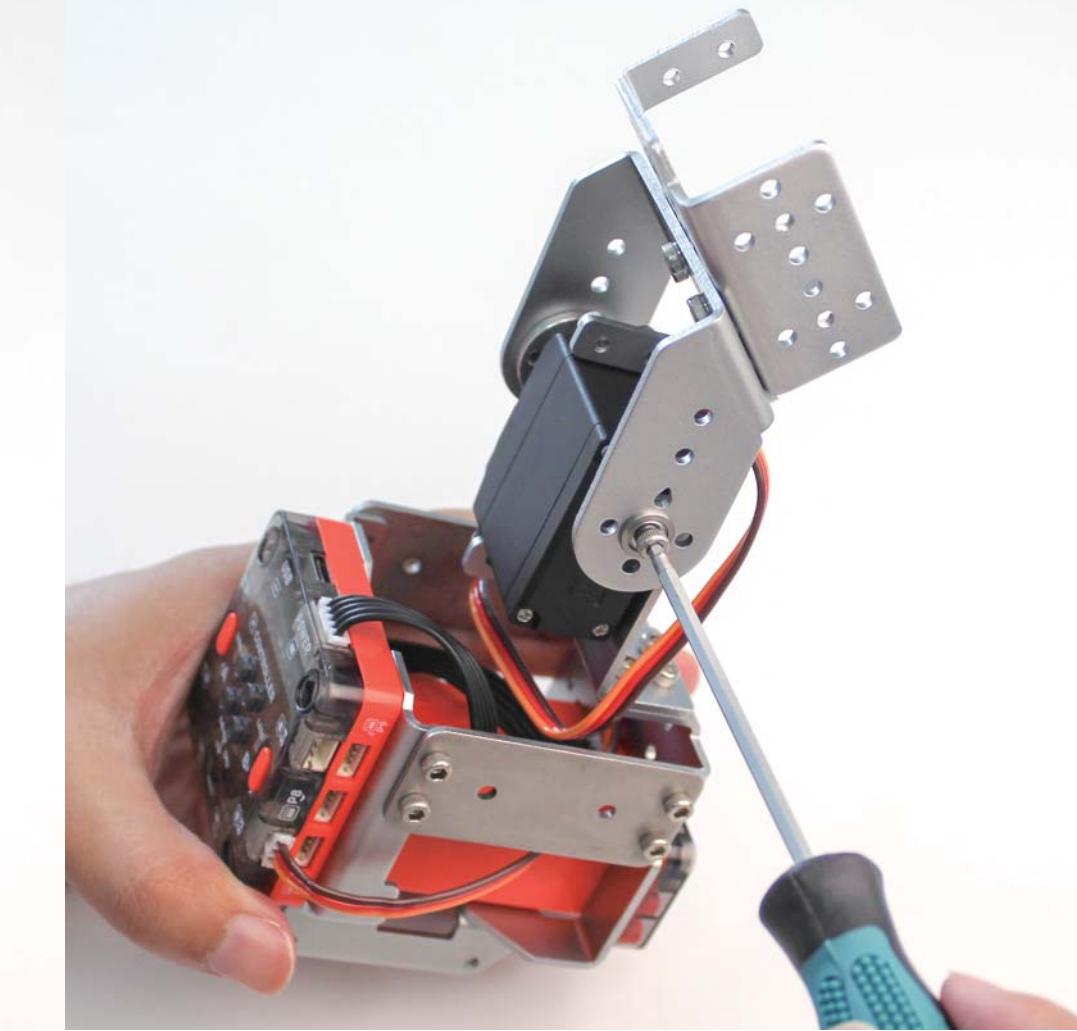
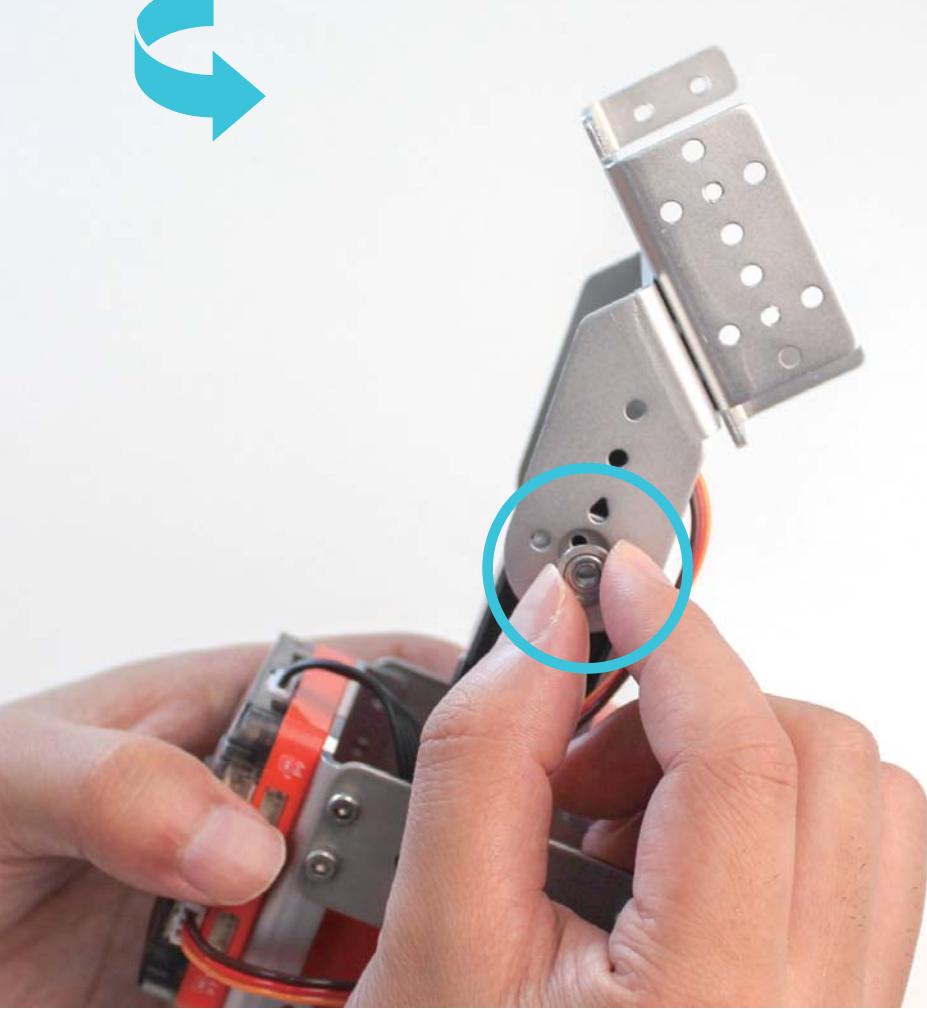
11



BEARING



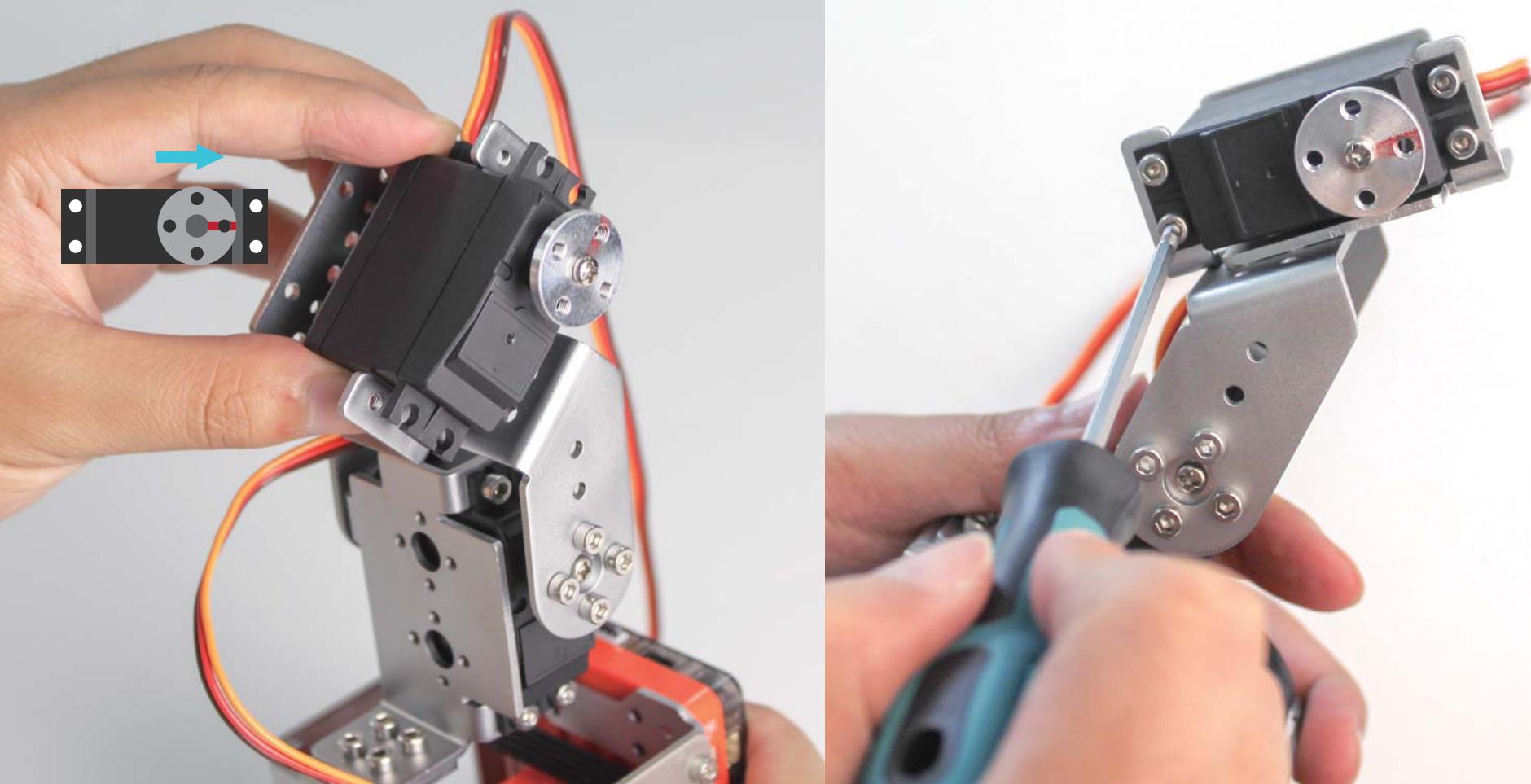
M3X8

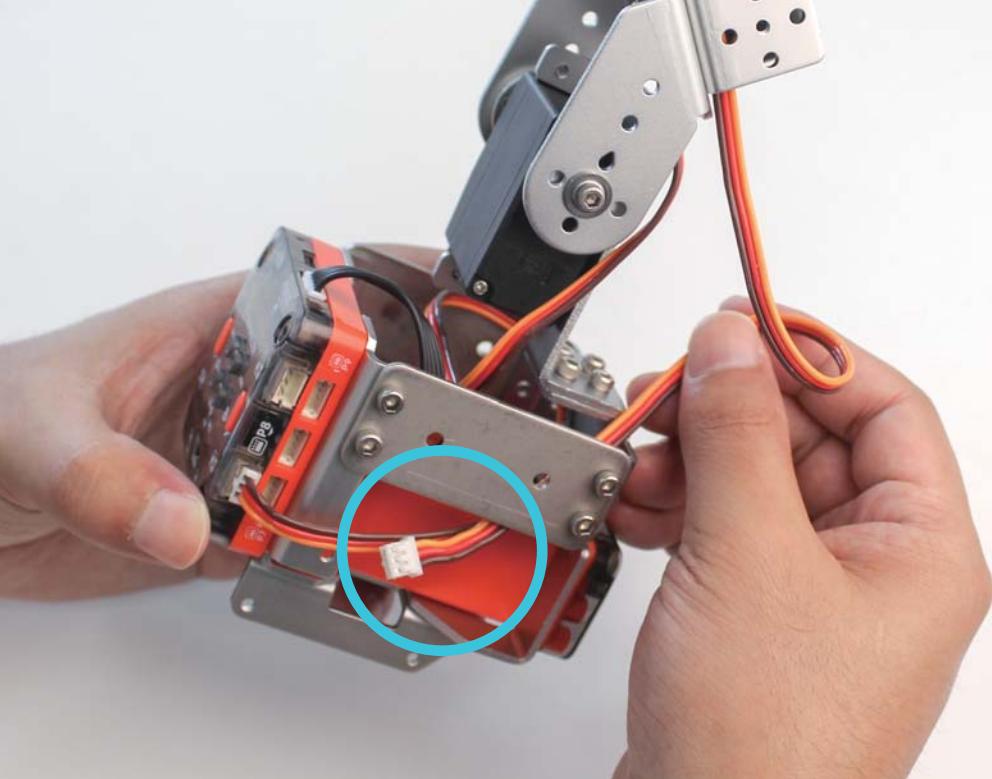
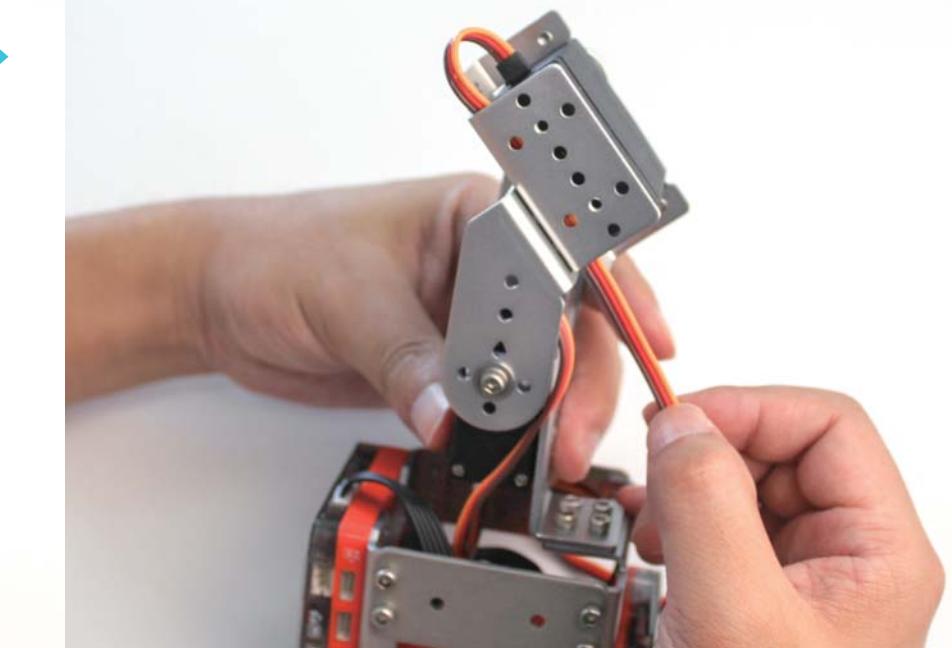
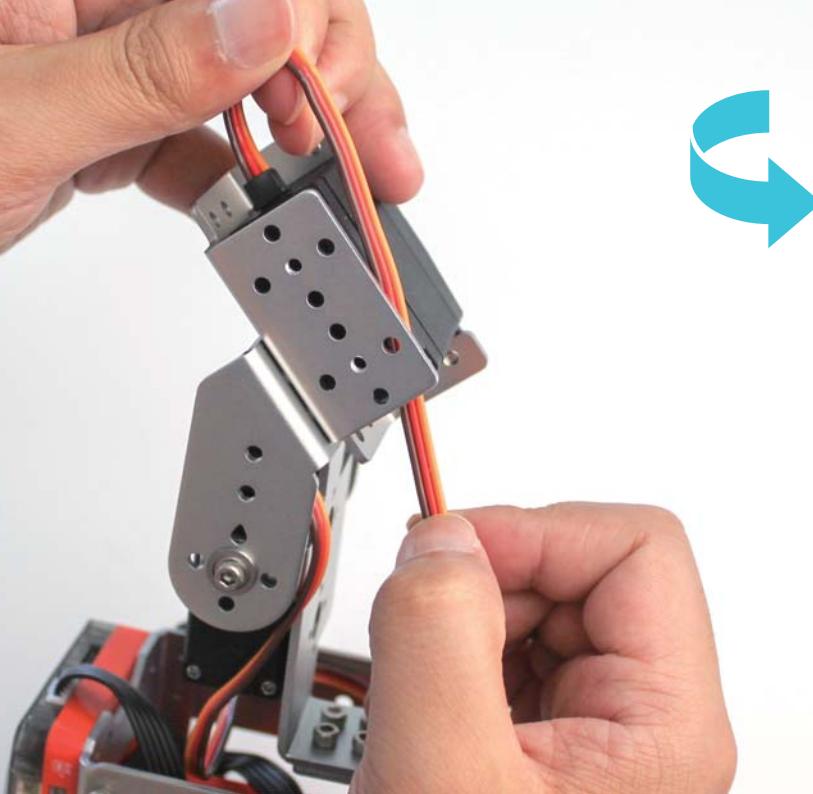


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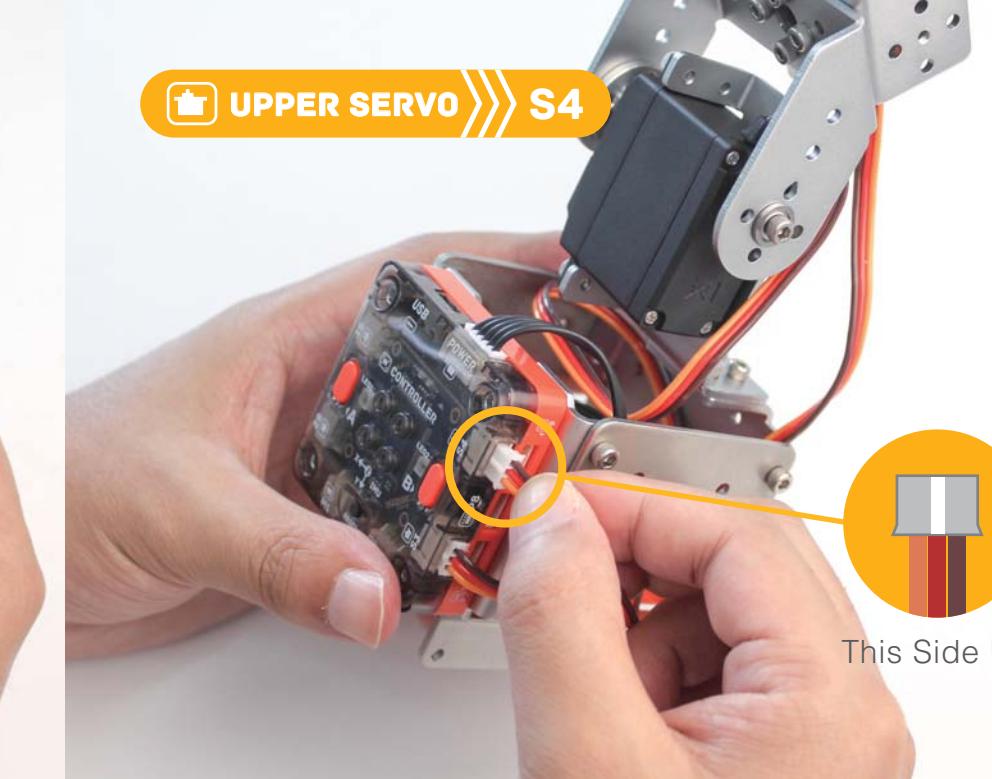


X4

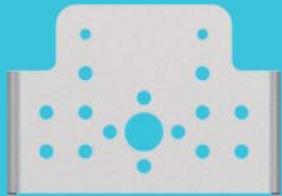




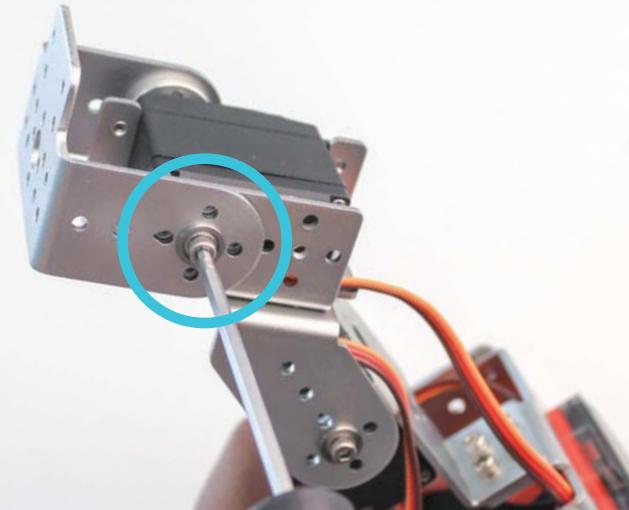
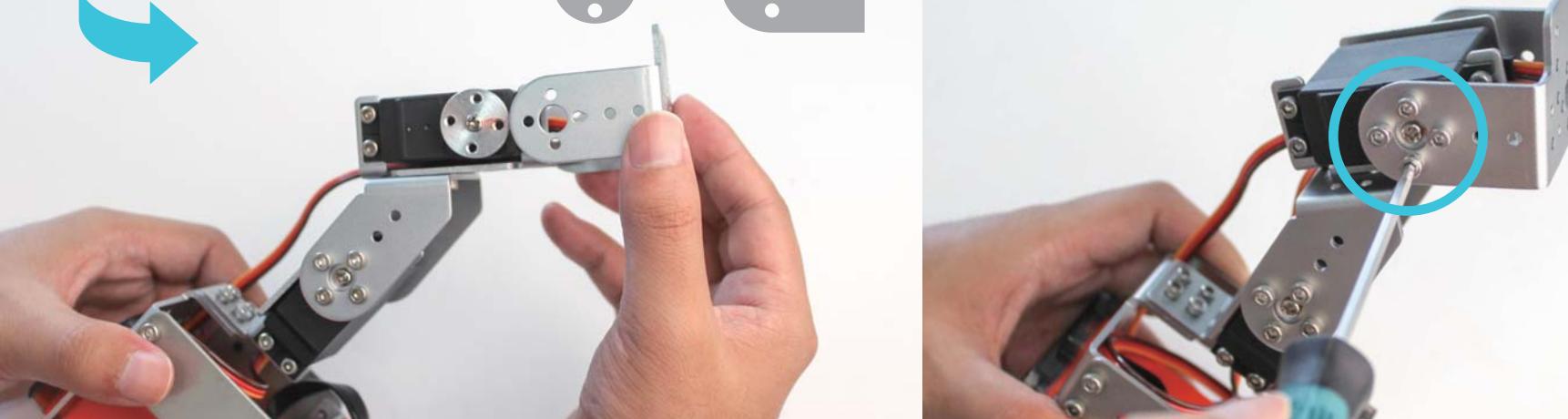
UPPER SERVO ➞ S4



13



X4



14



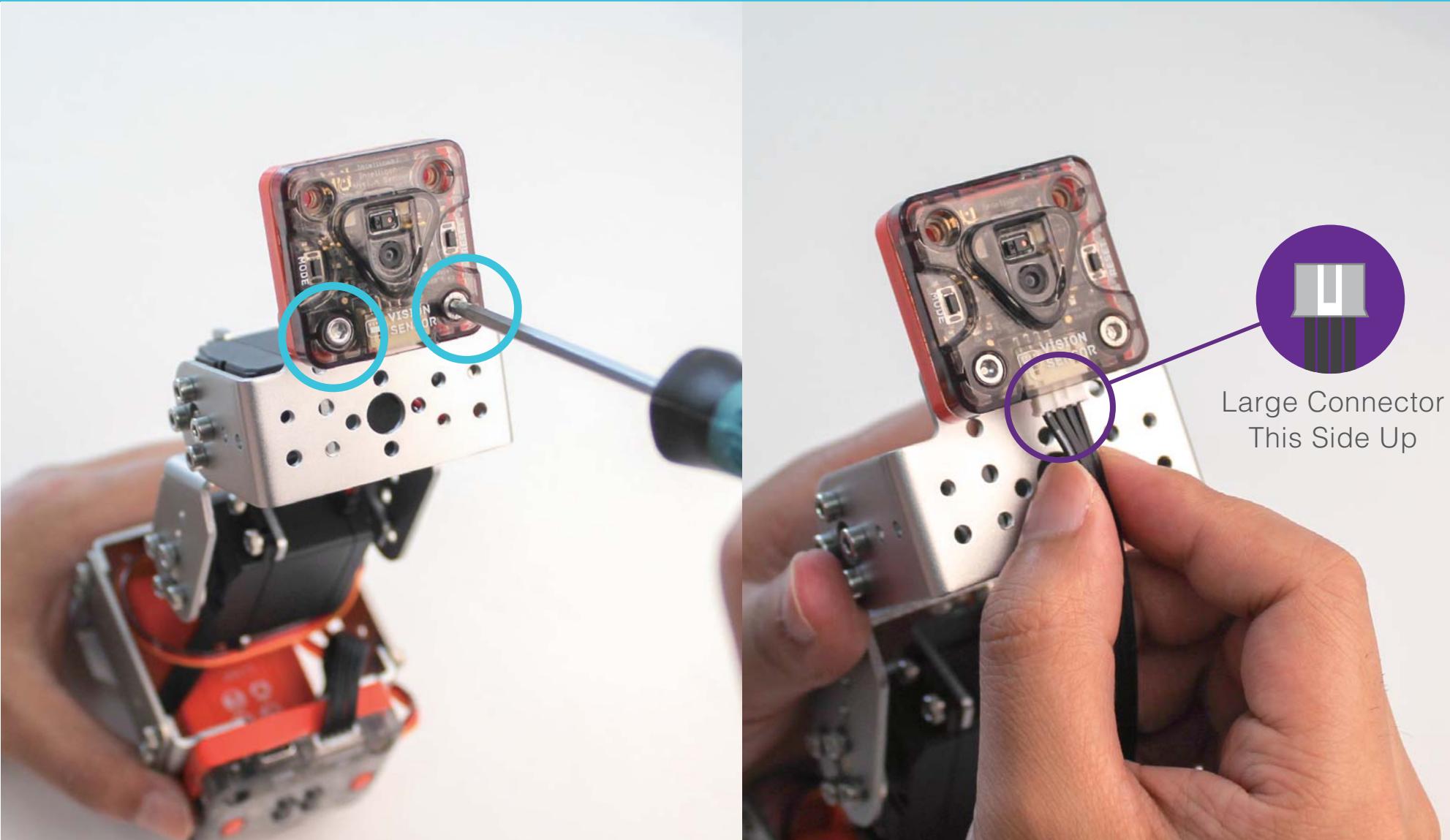
X2

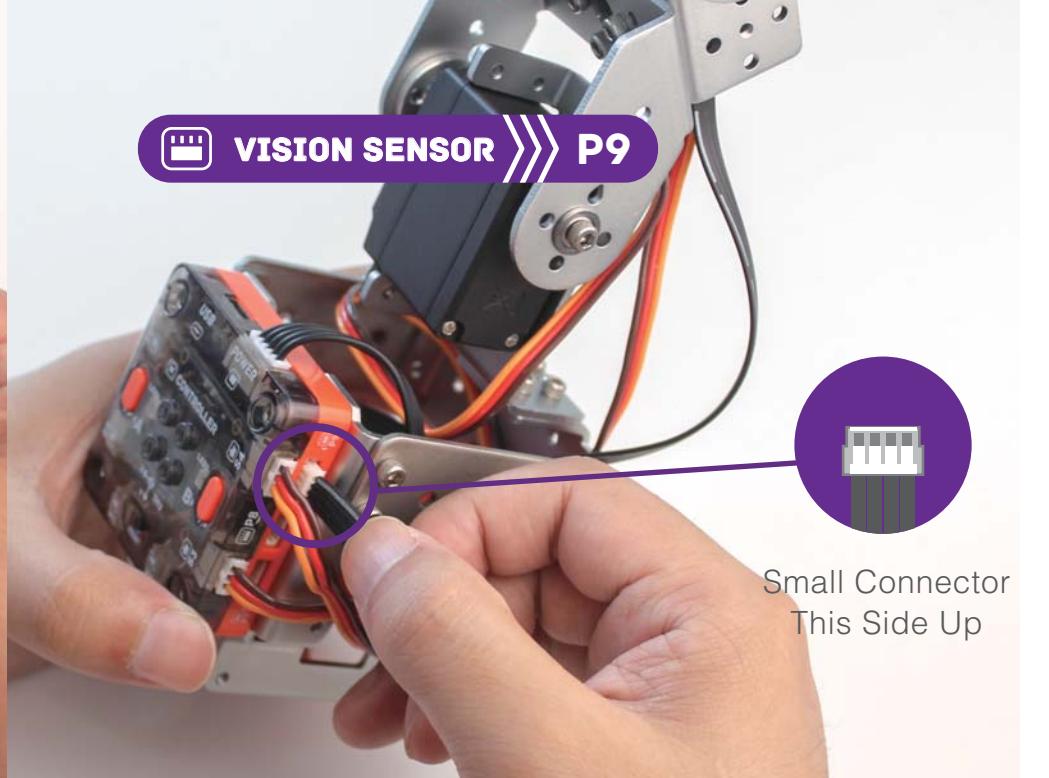
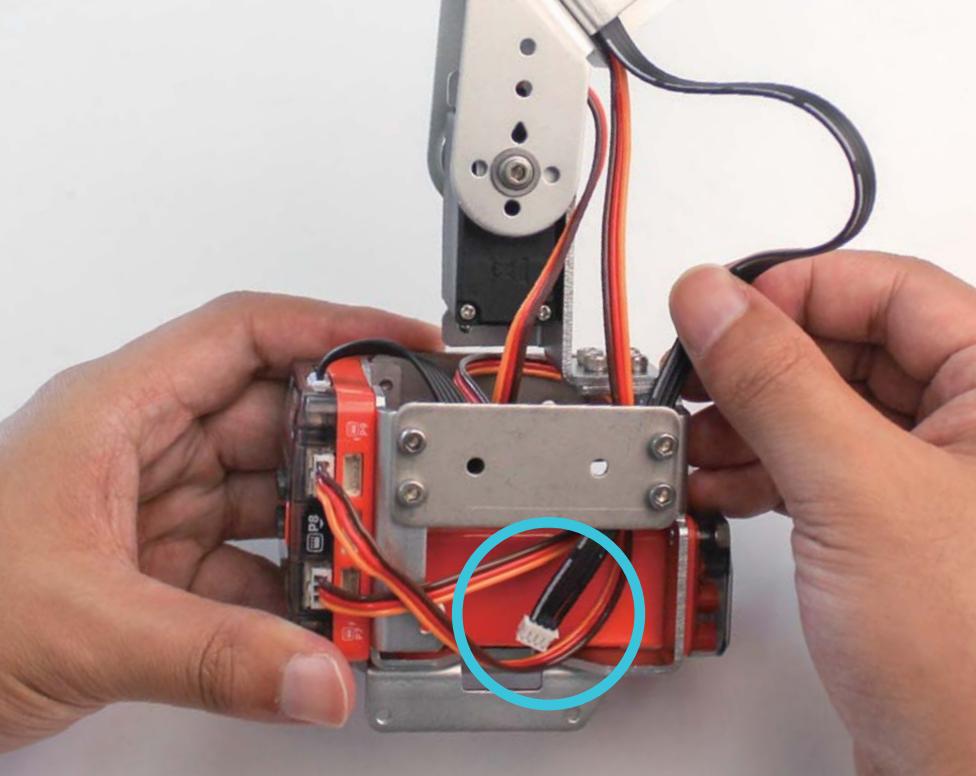
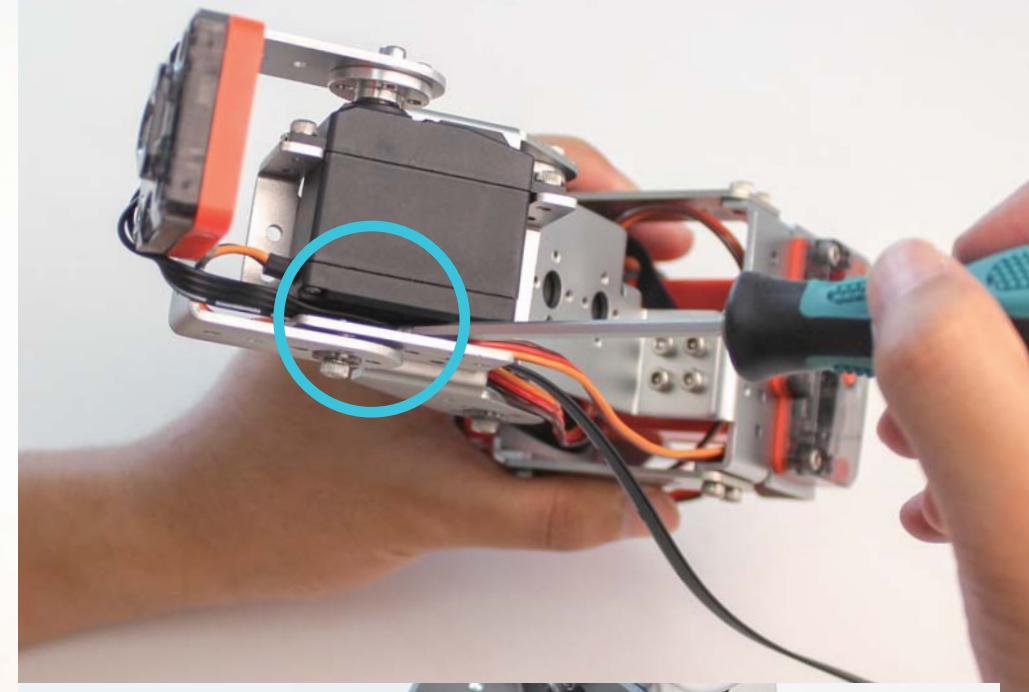
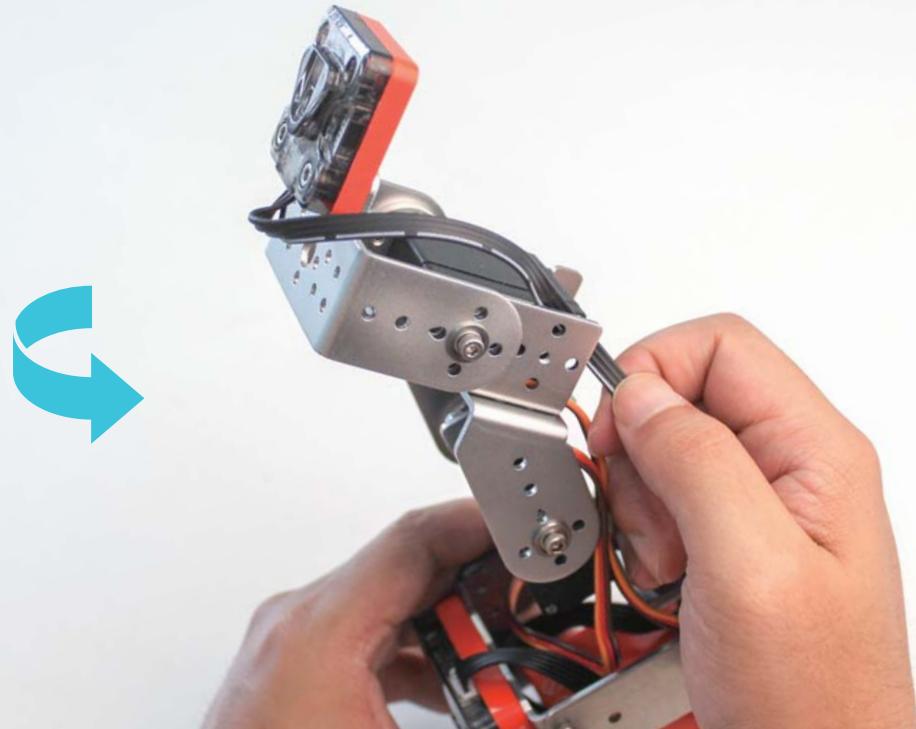


4PIN

↔

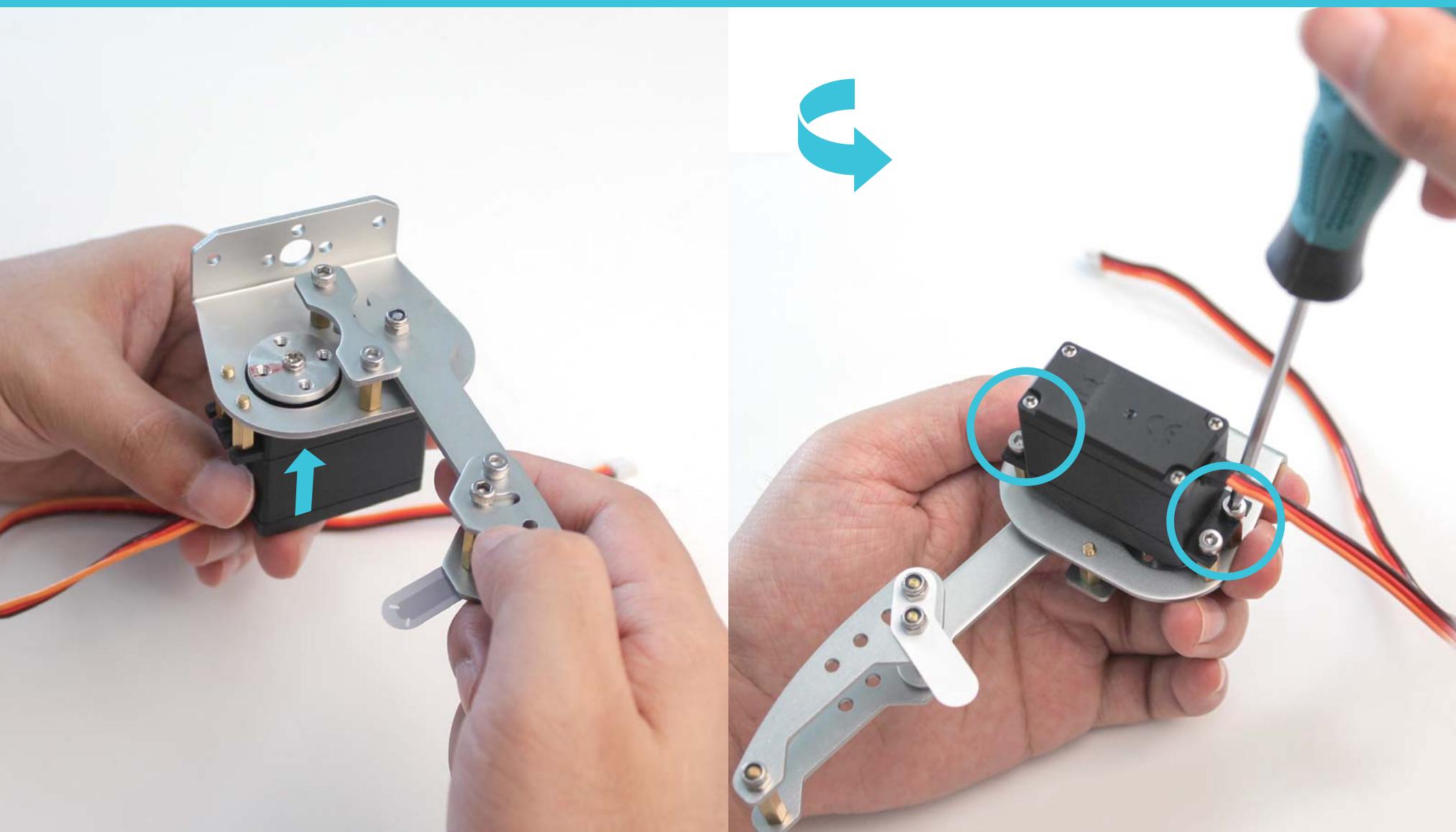
30CM





Small Connector  
This Side Up

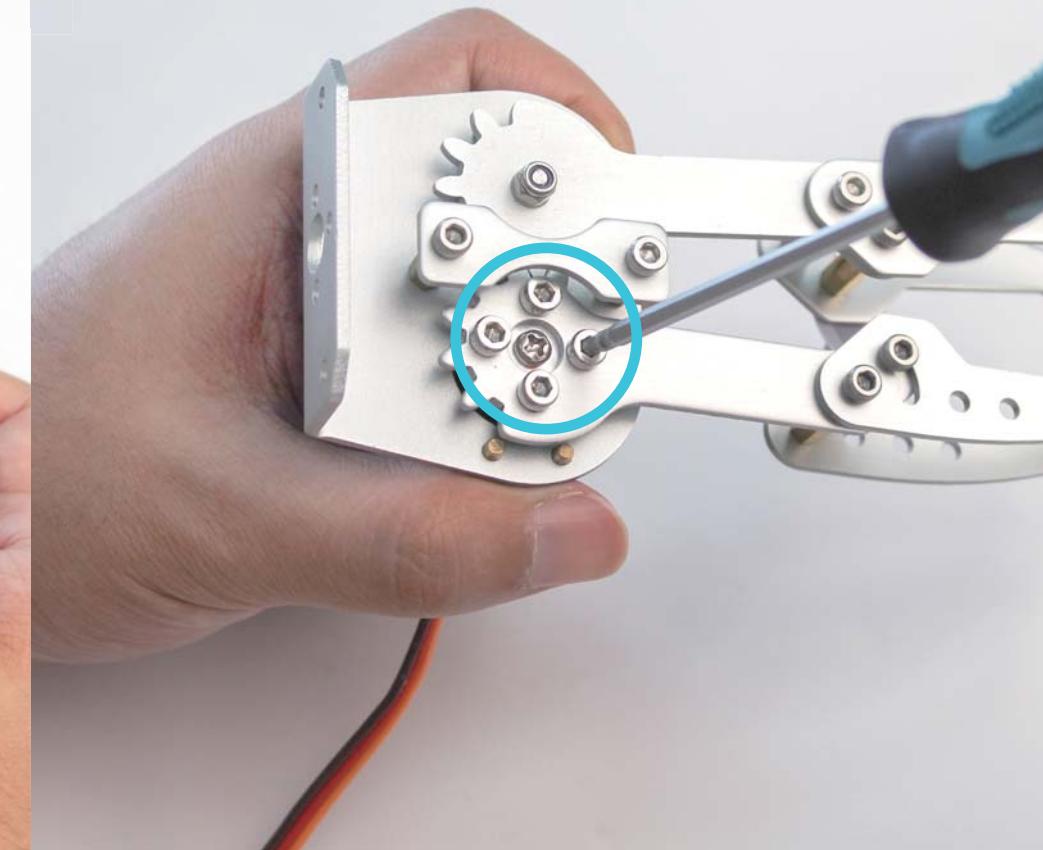
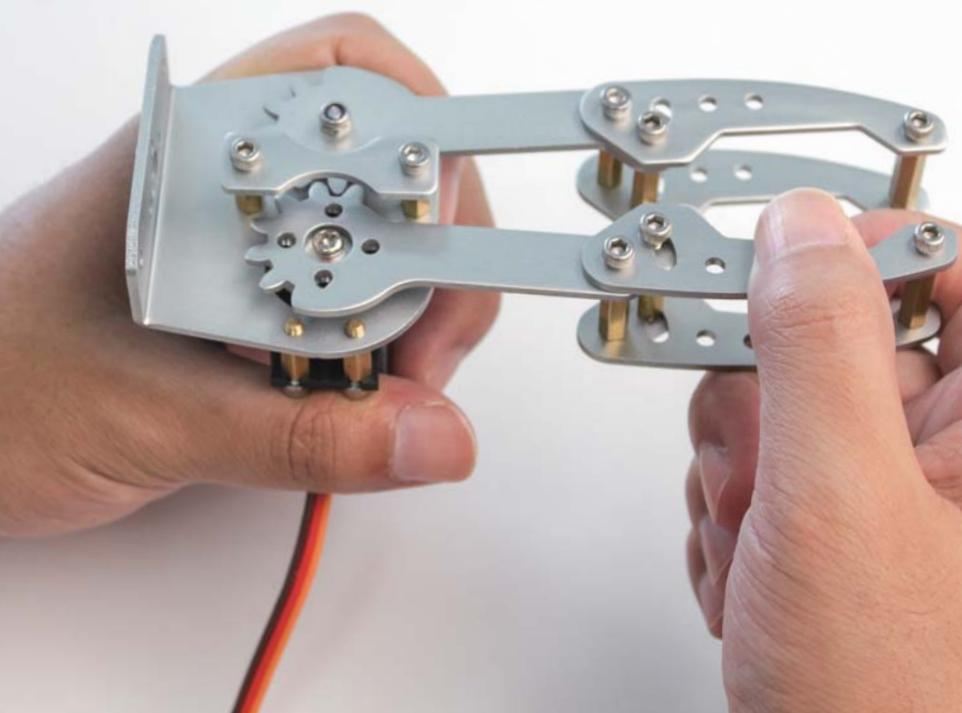
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17



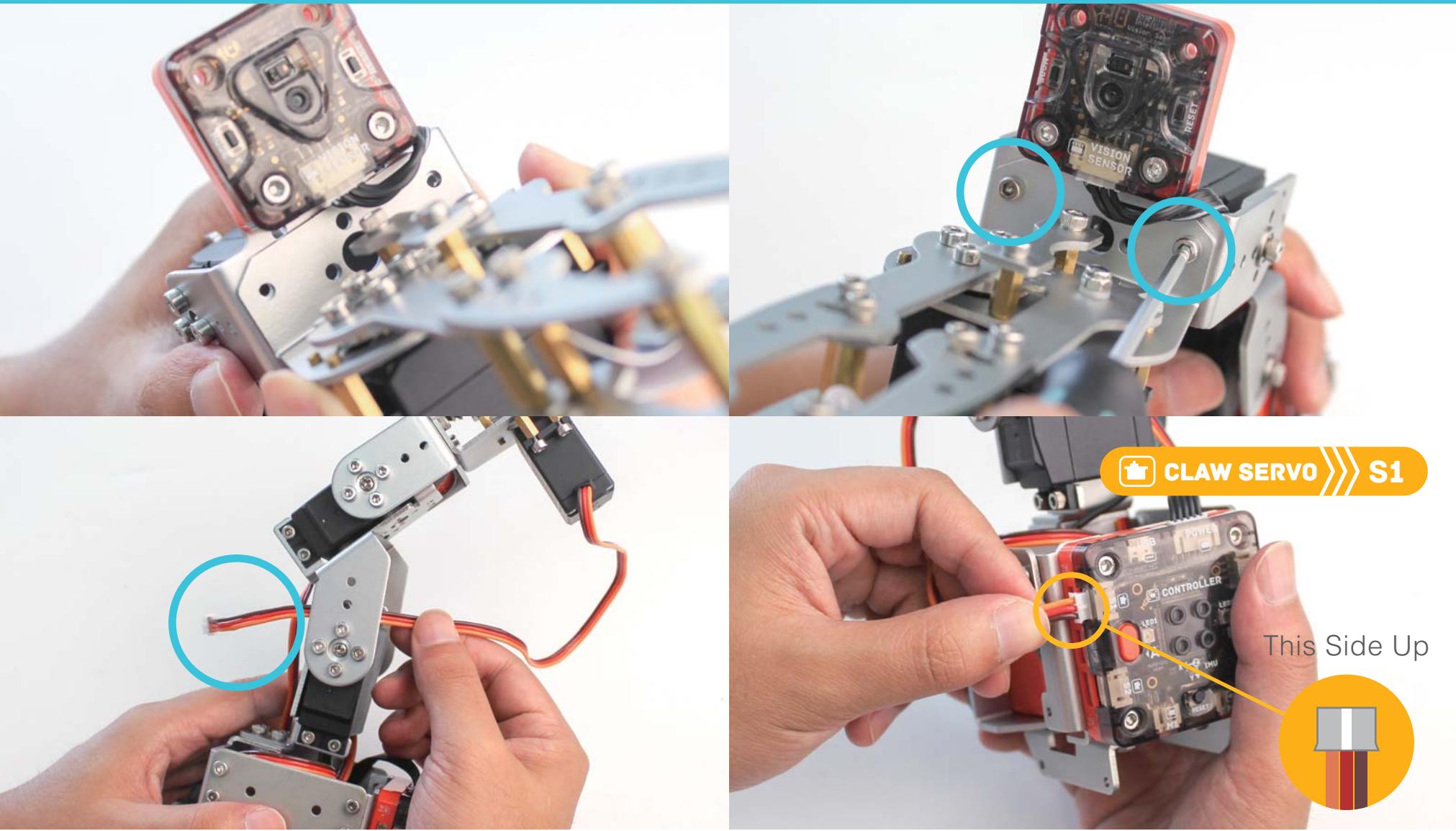
M3X4  
X4



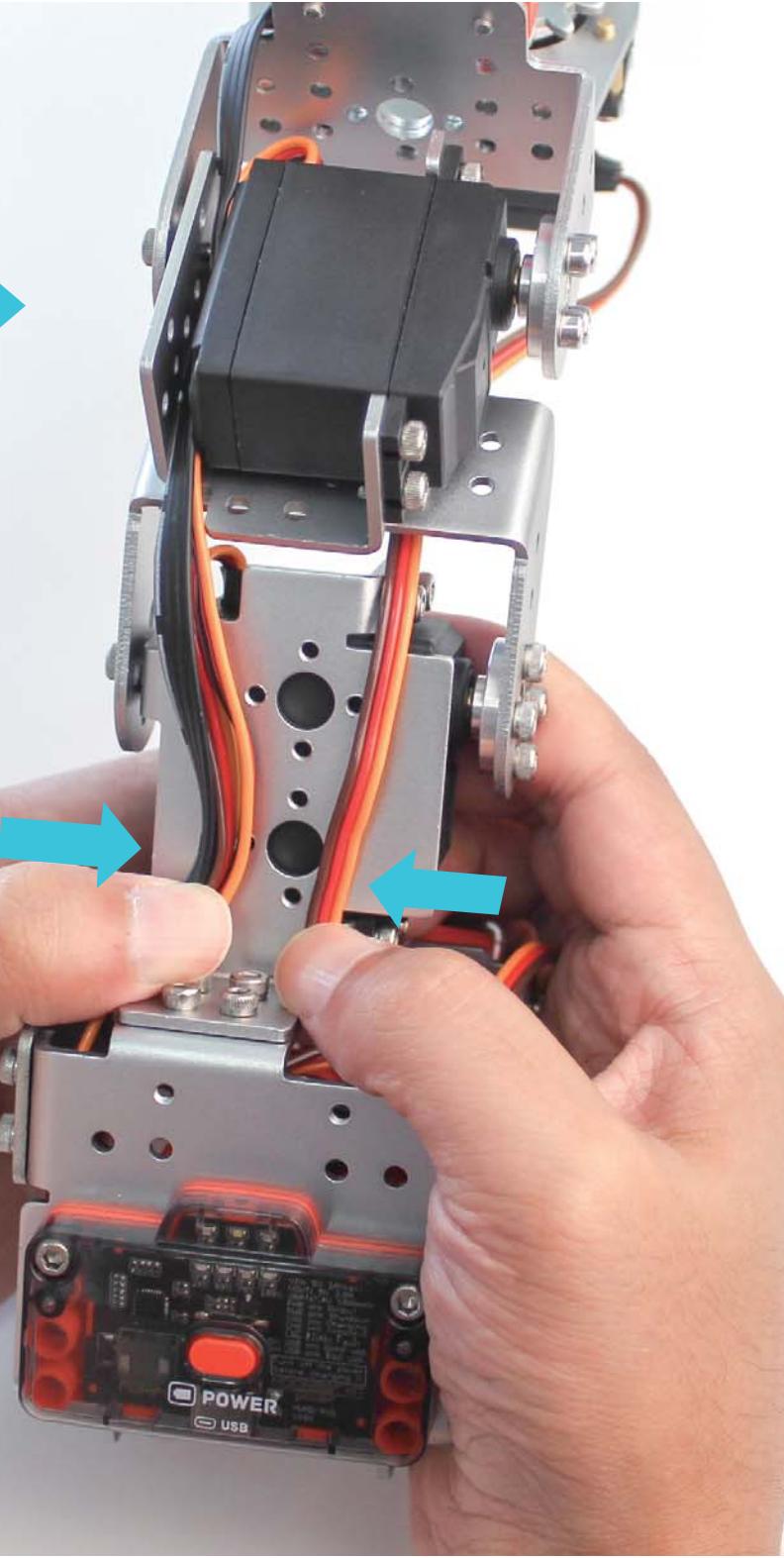
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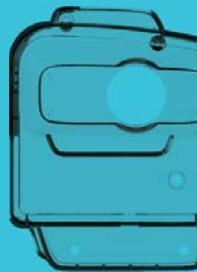
X2



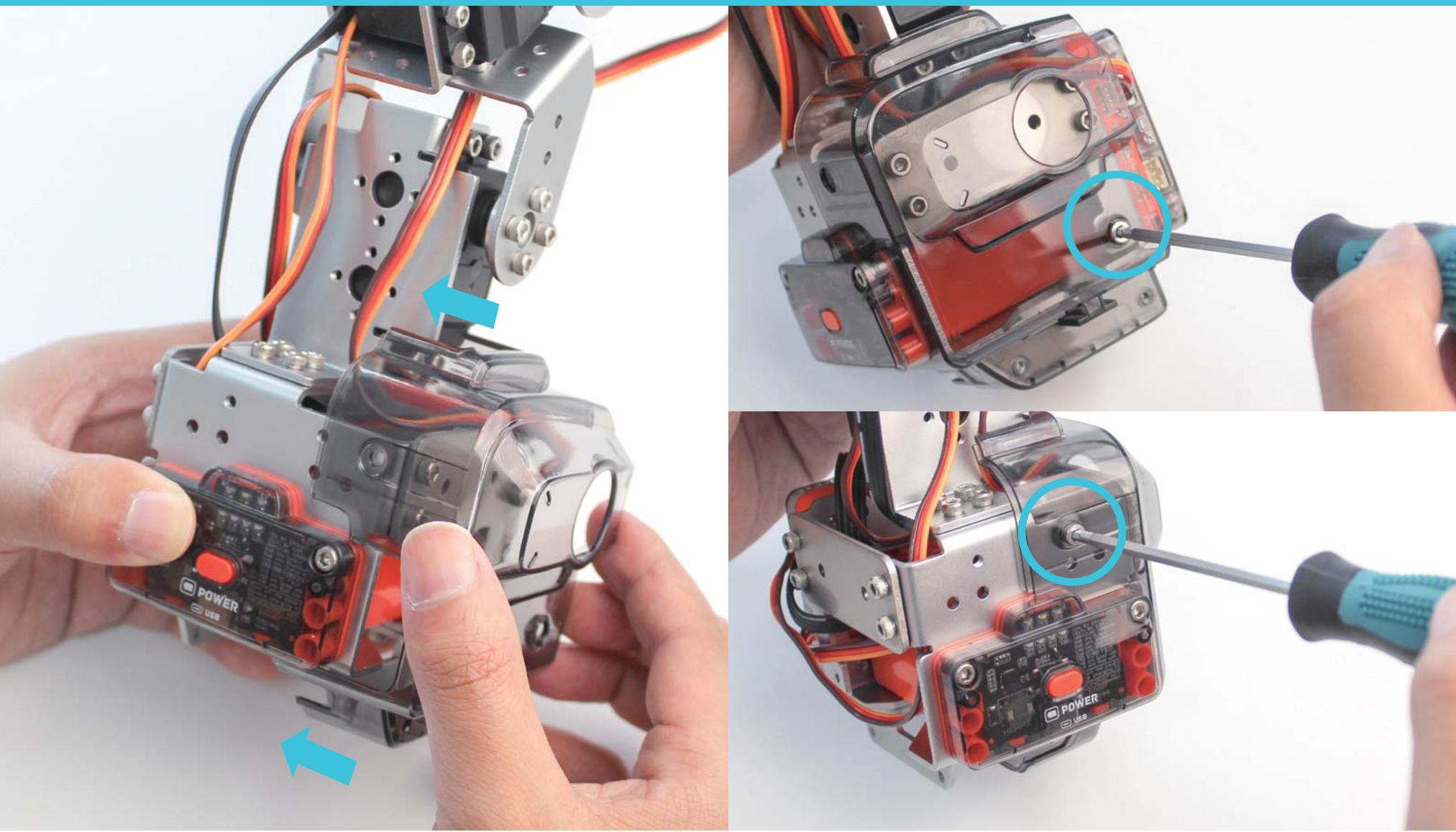
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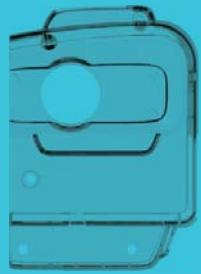
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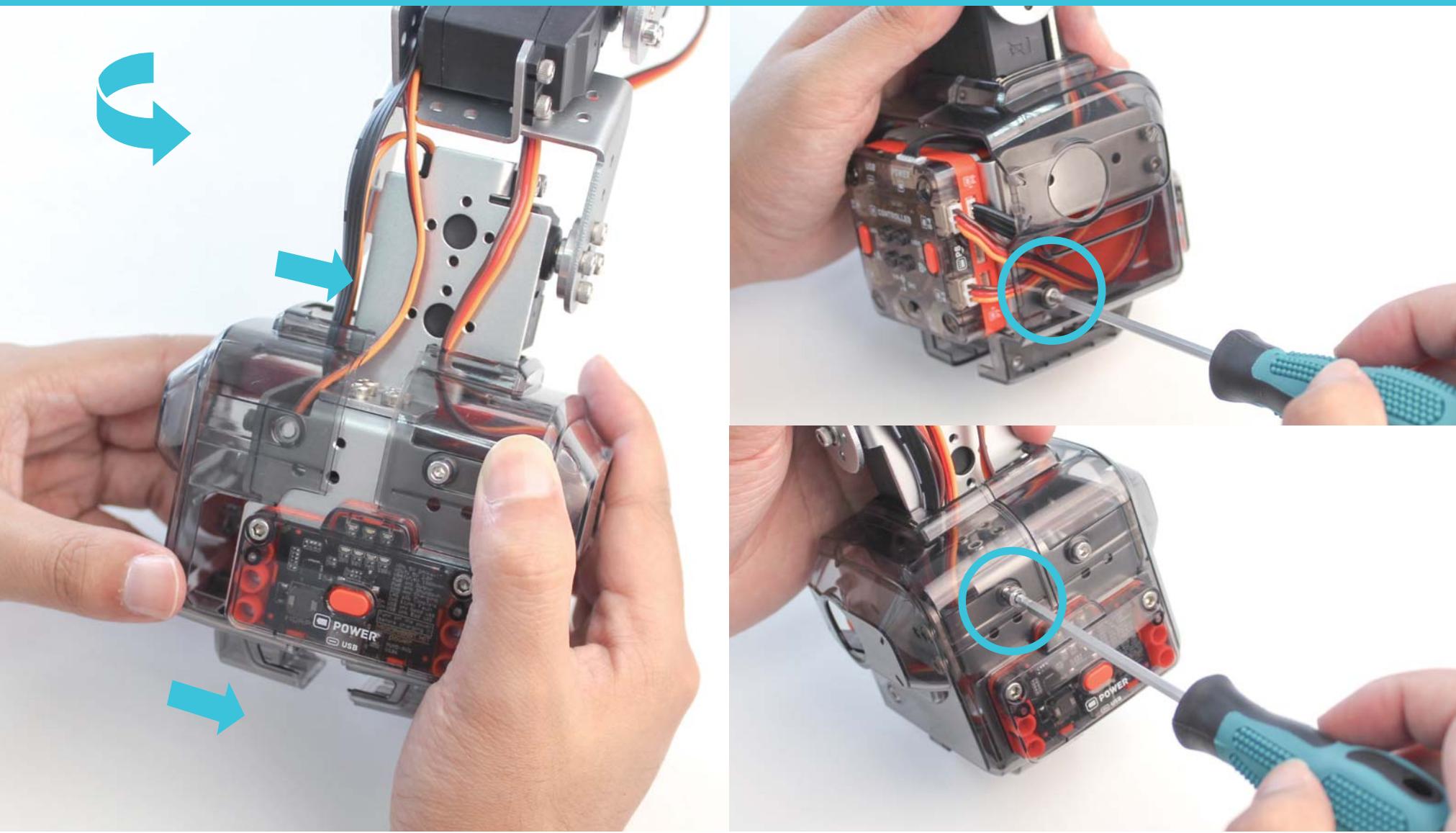
M3X4  
X2



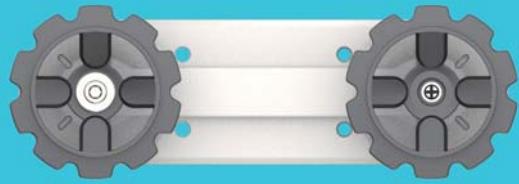
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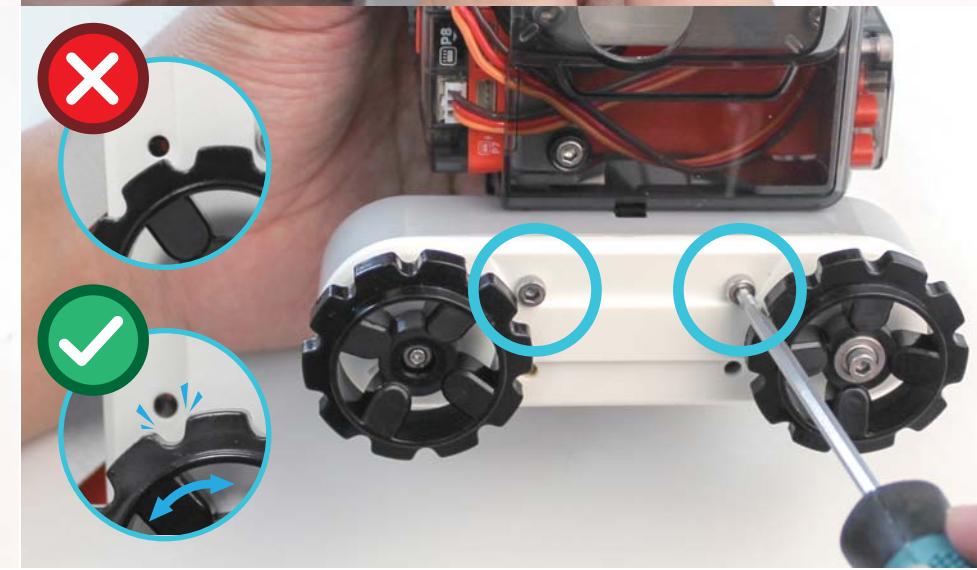
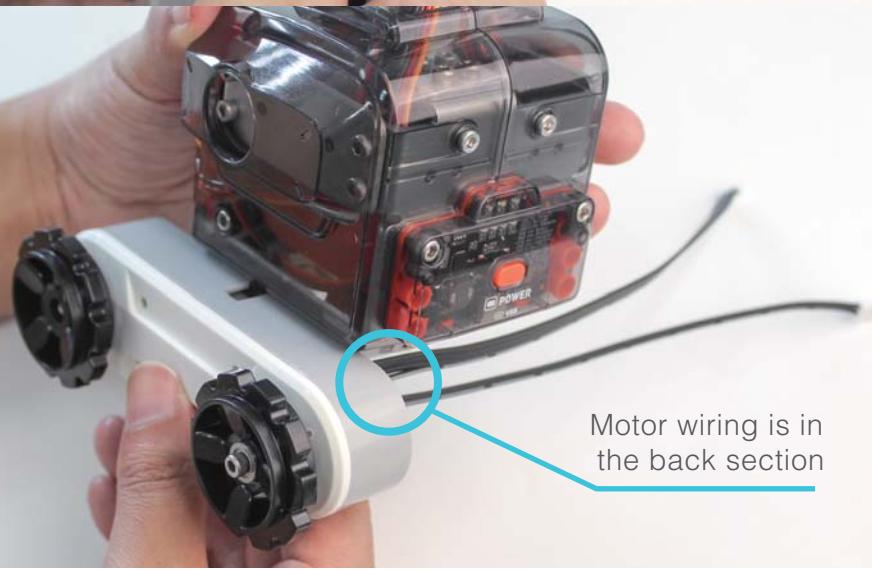
M3X4  
X2

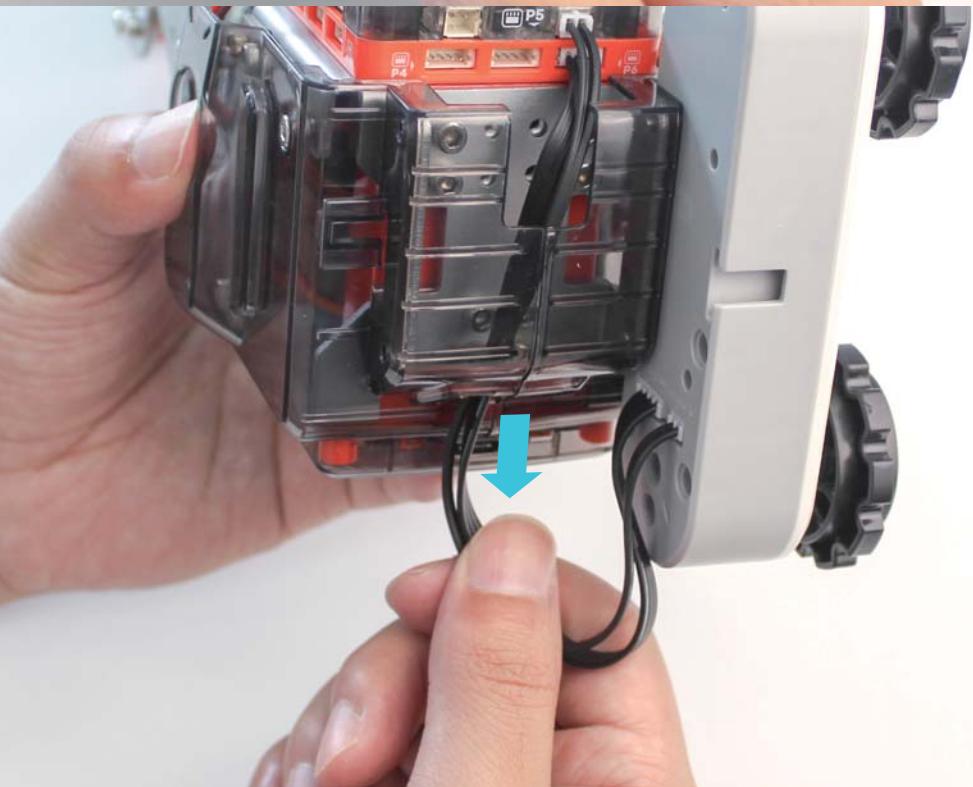
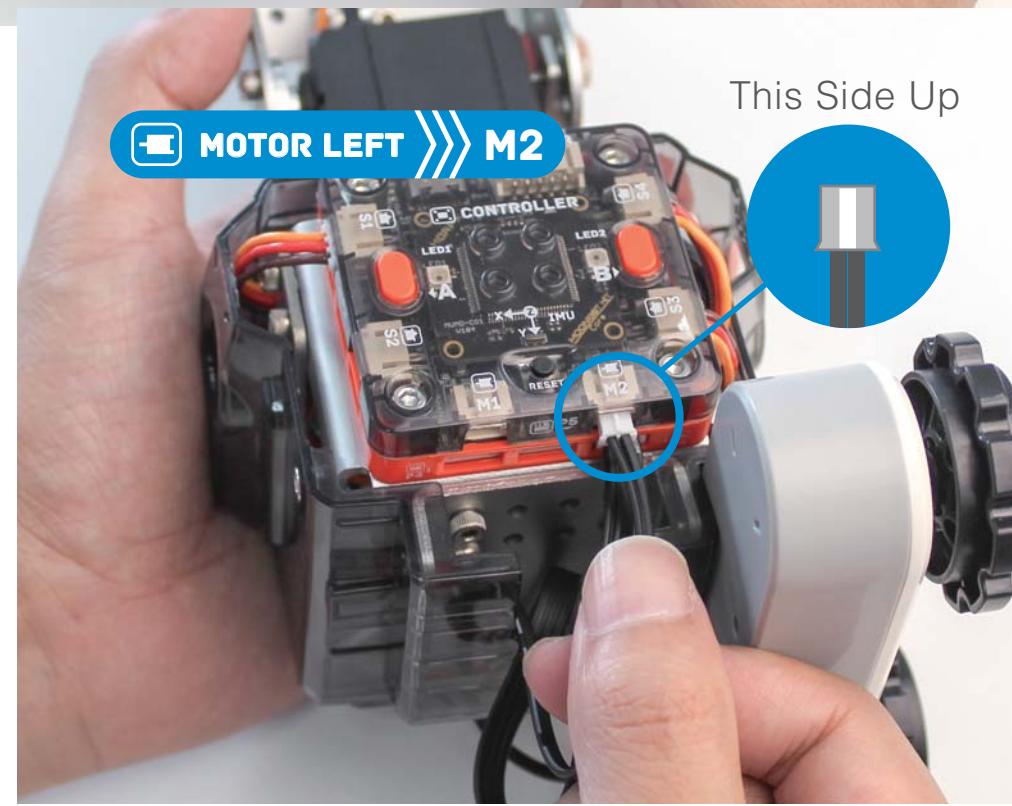
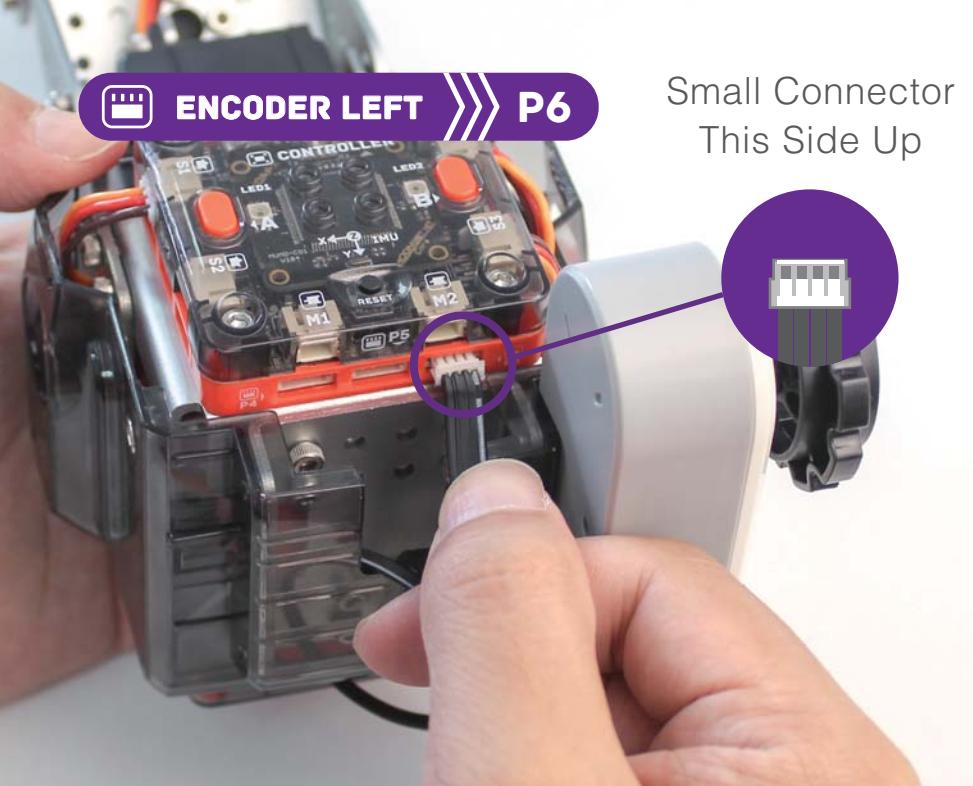
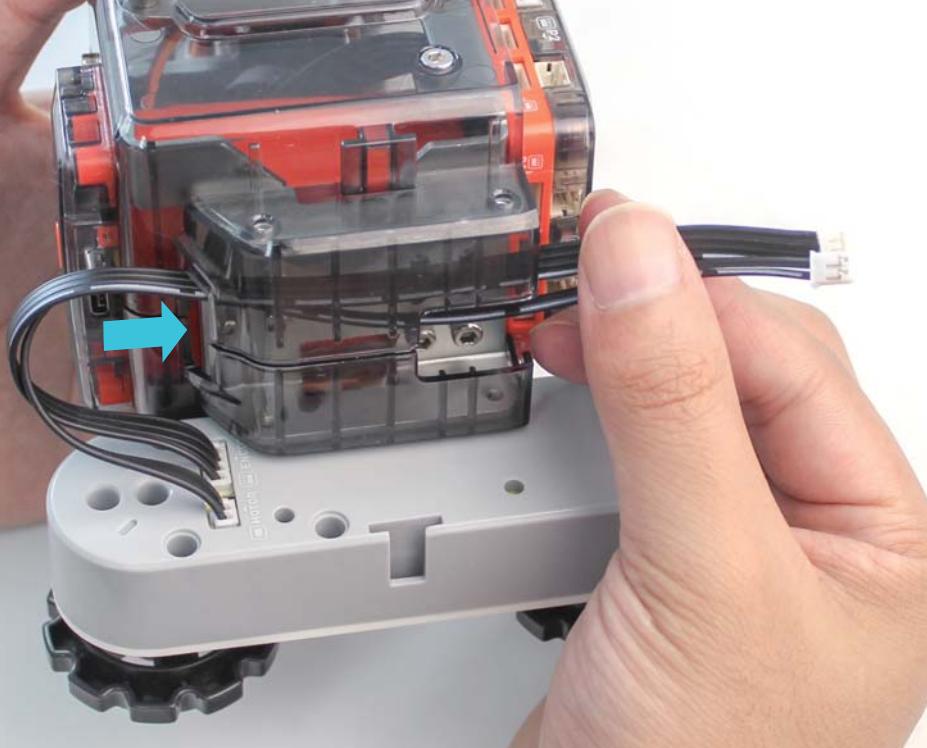


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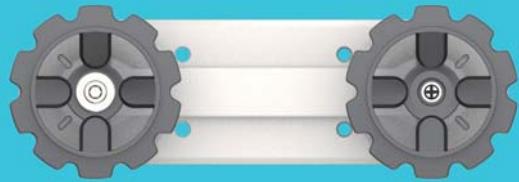


X4

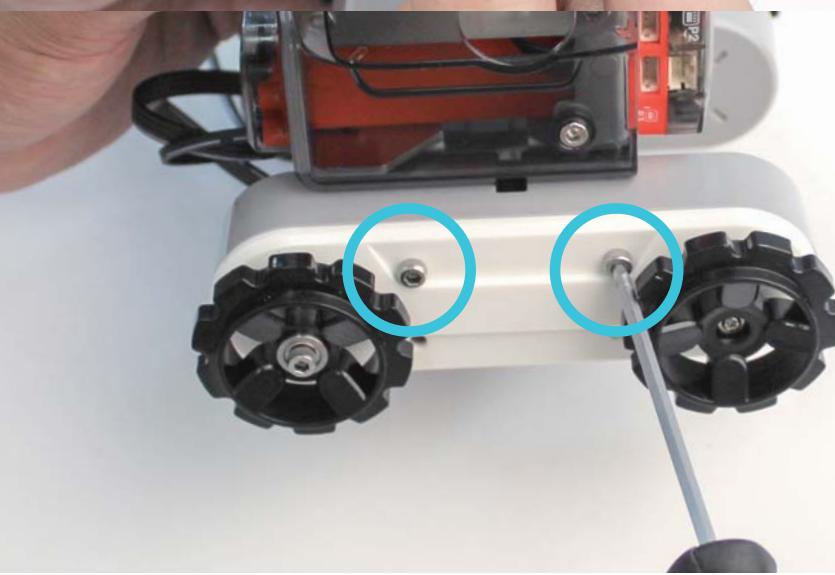
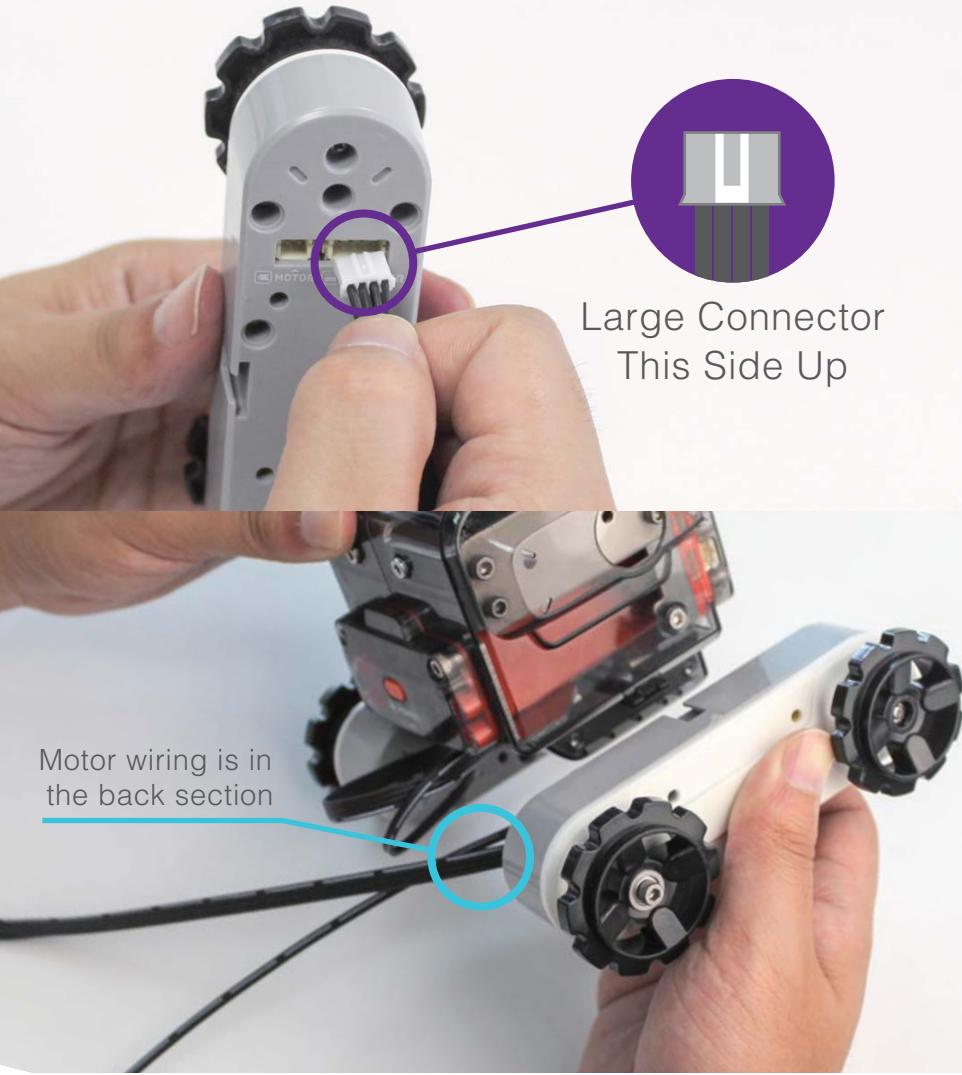




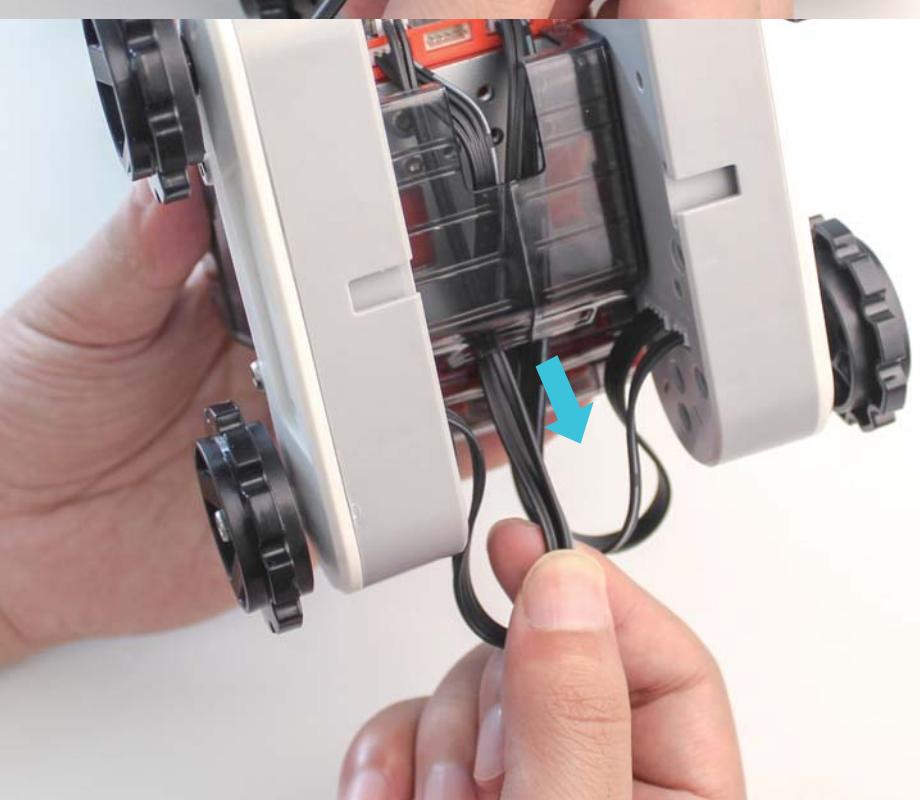
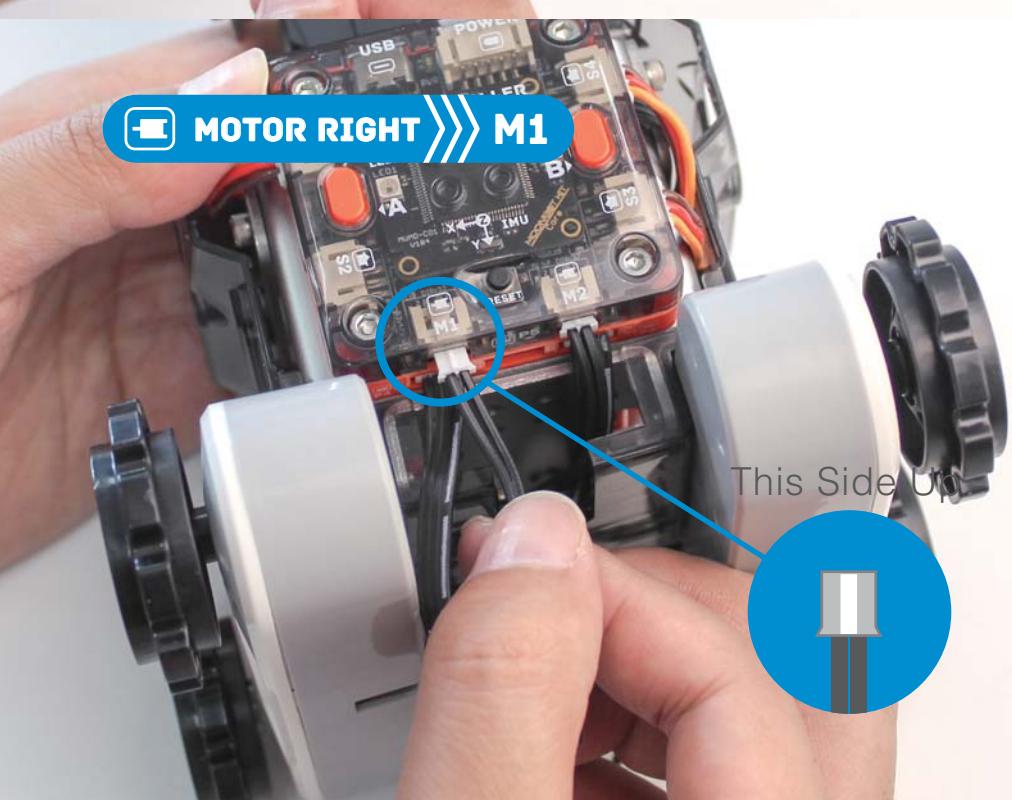
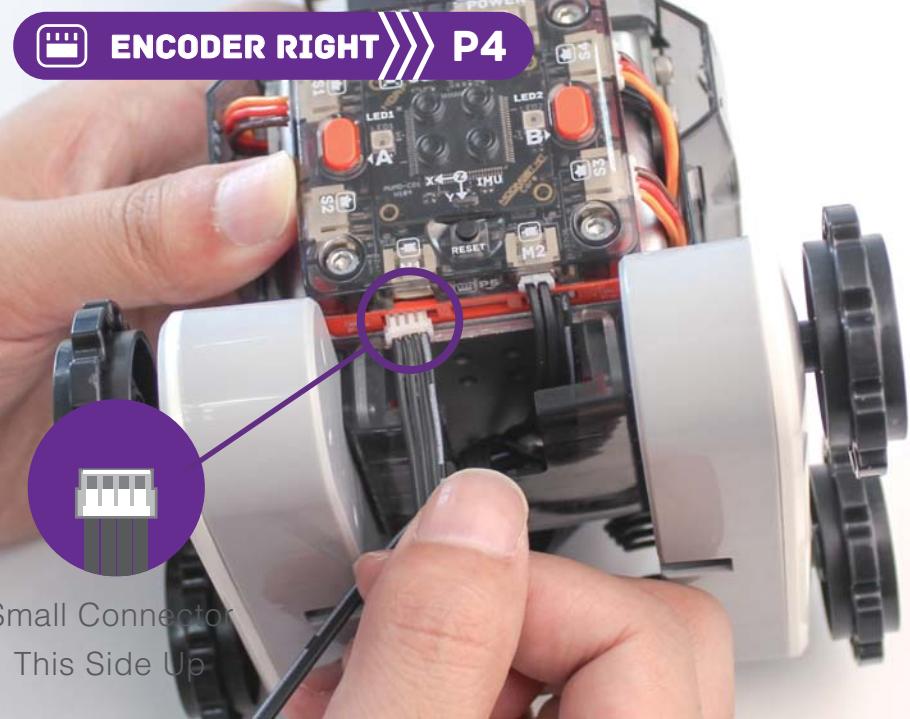
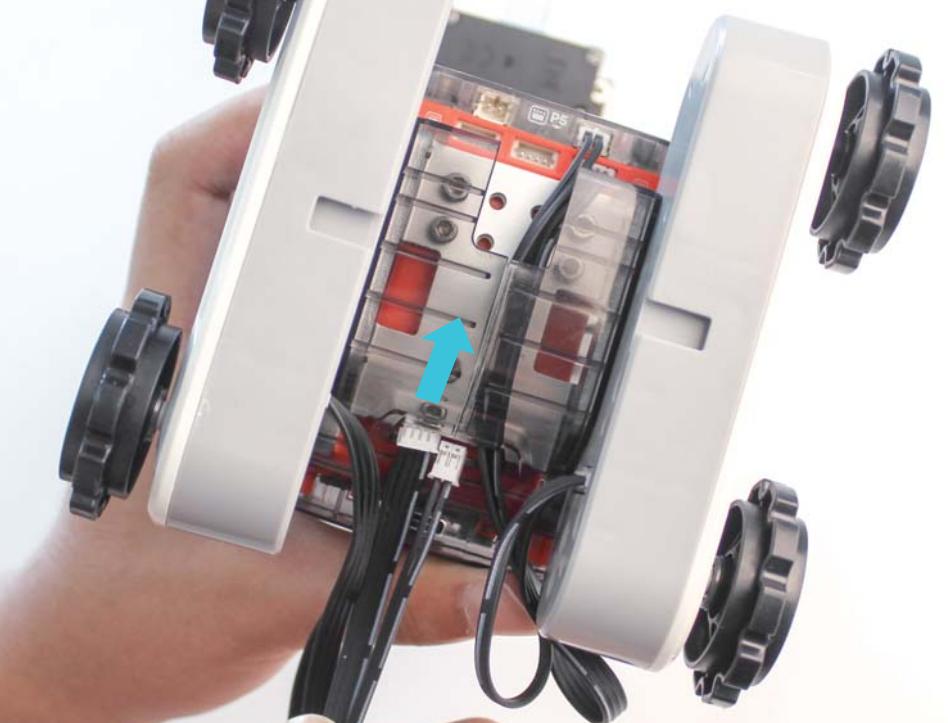
# 23



X4



Motor wiring is in  
the back section



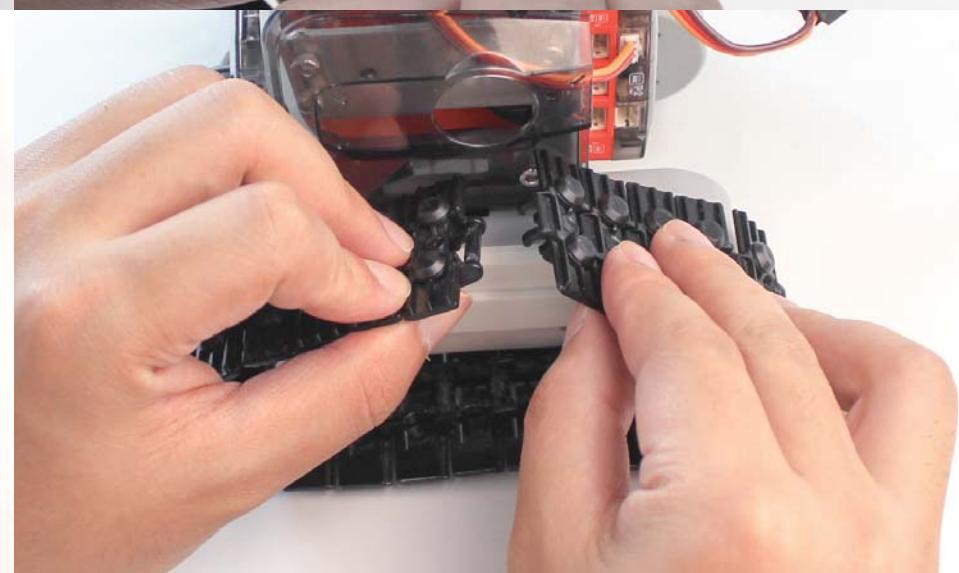
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X23



X46



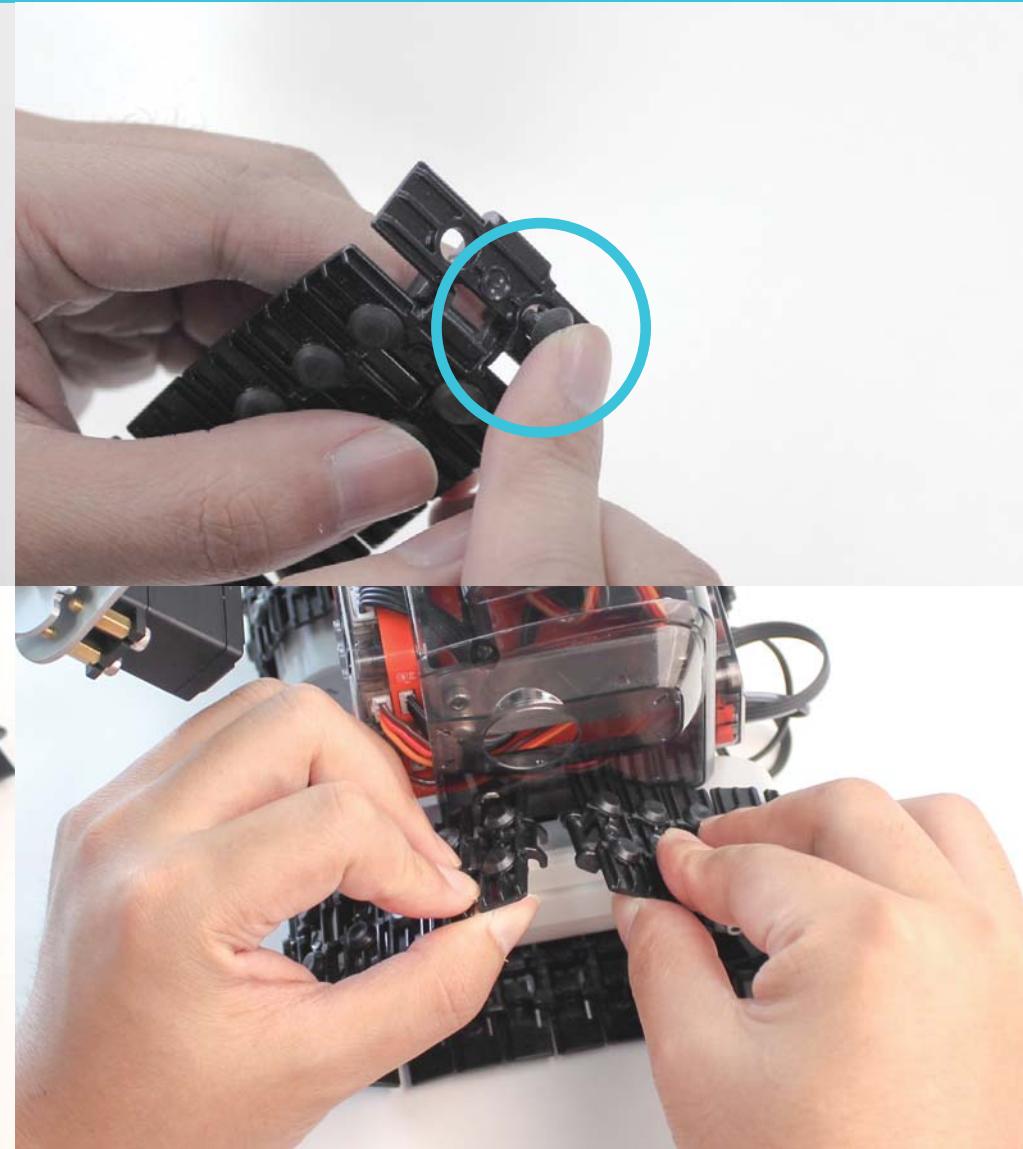
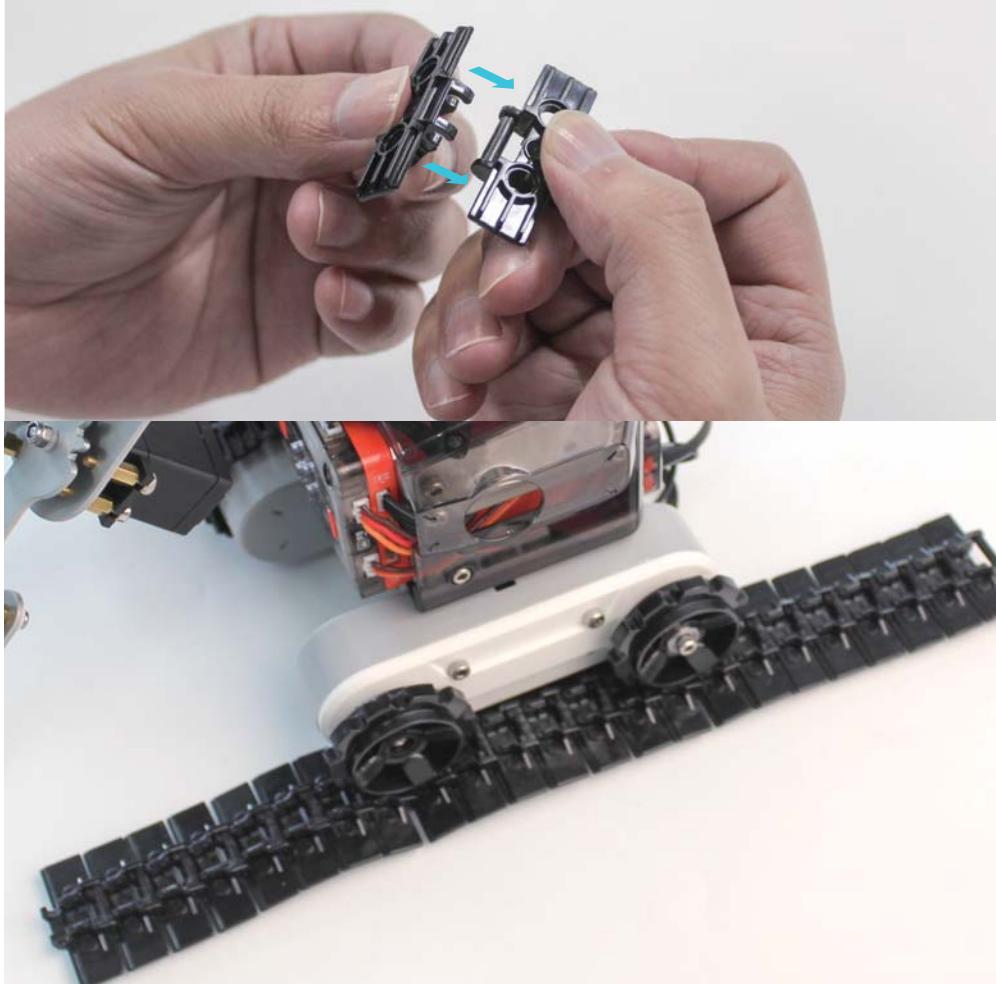
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X23



X46



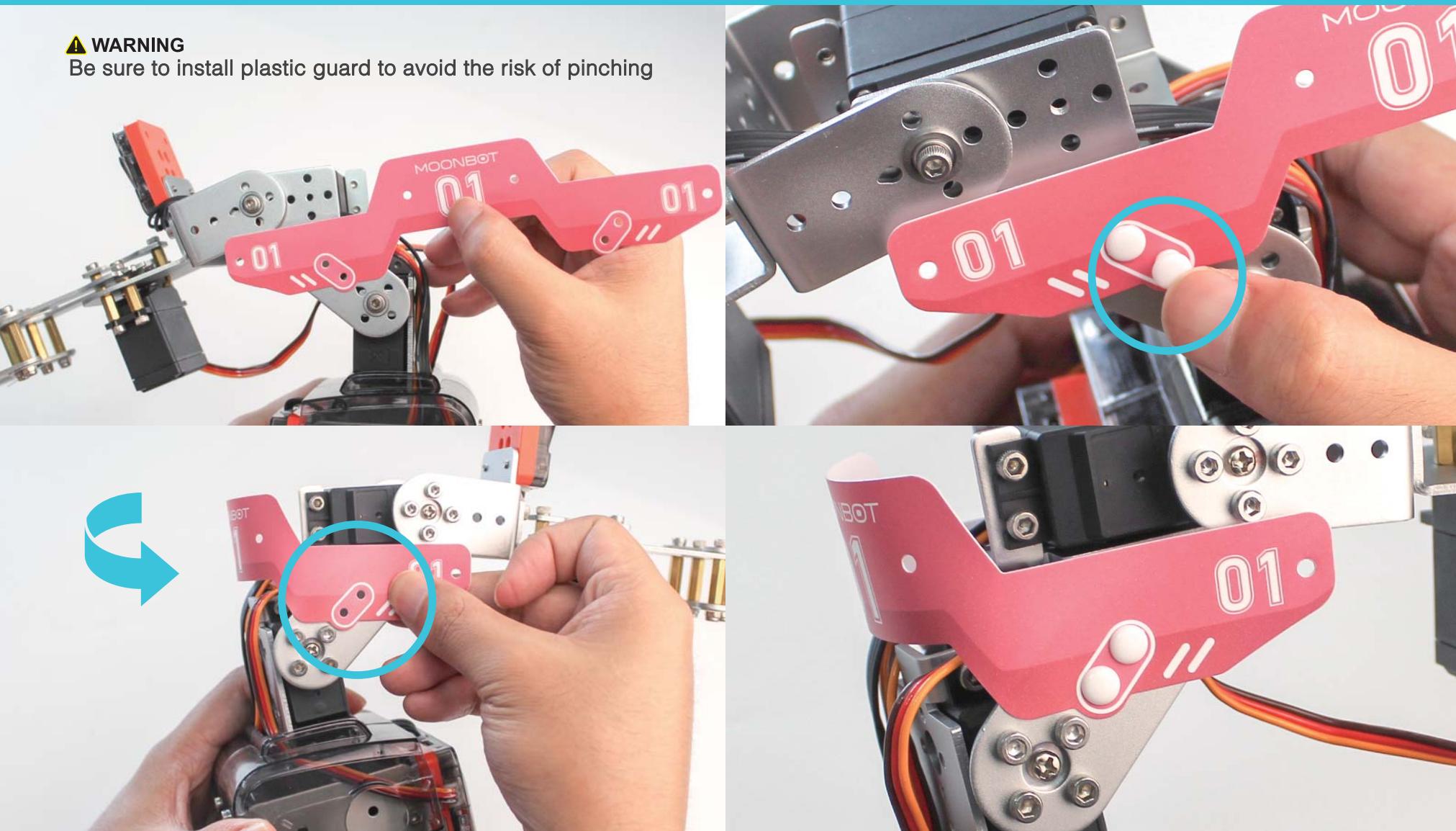
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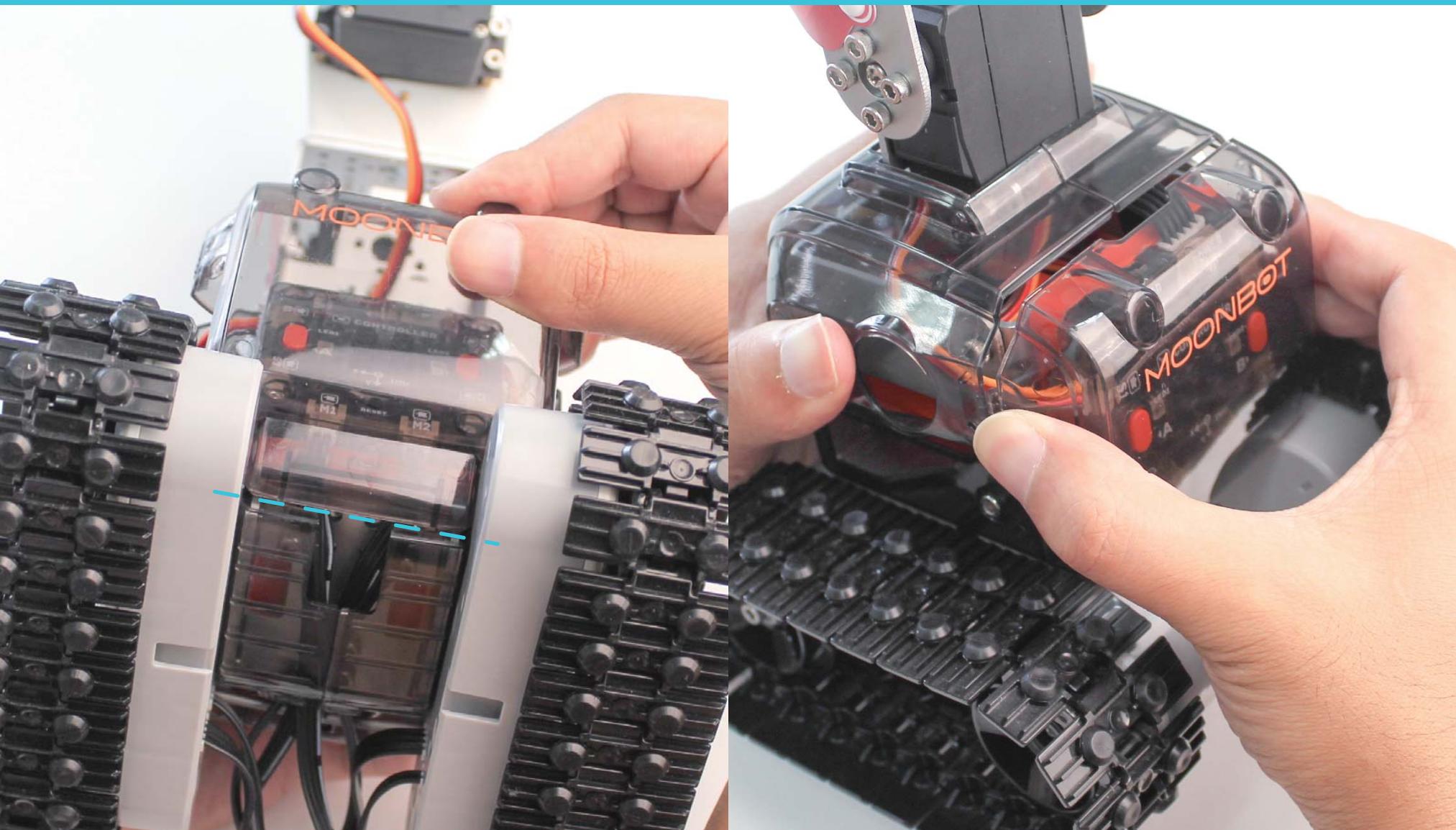
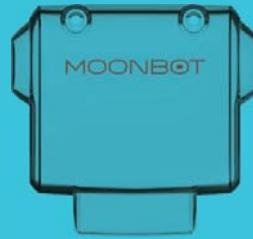
X4

**⚠️ WARNING**

Be sure to install plastic guard to avoid the risk of pinching

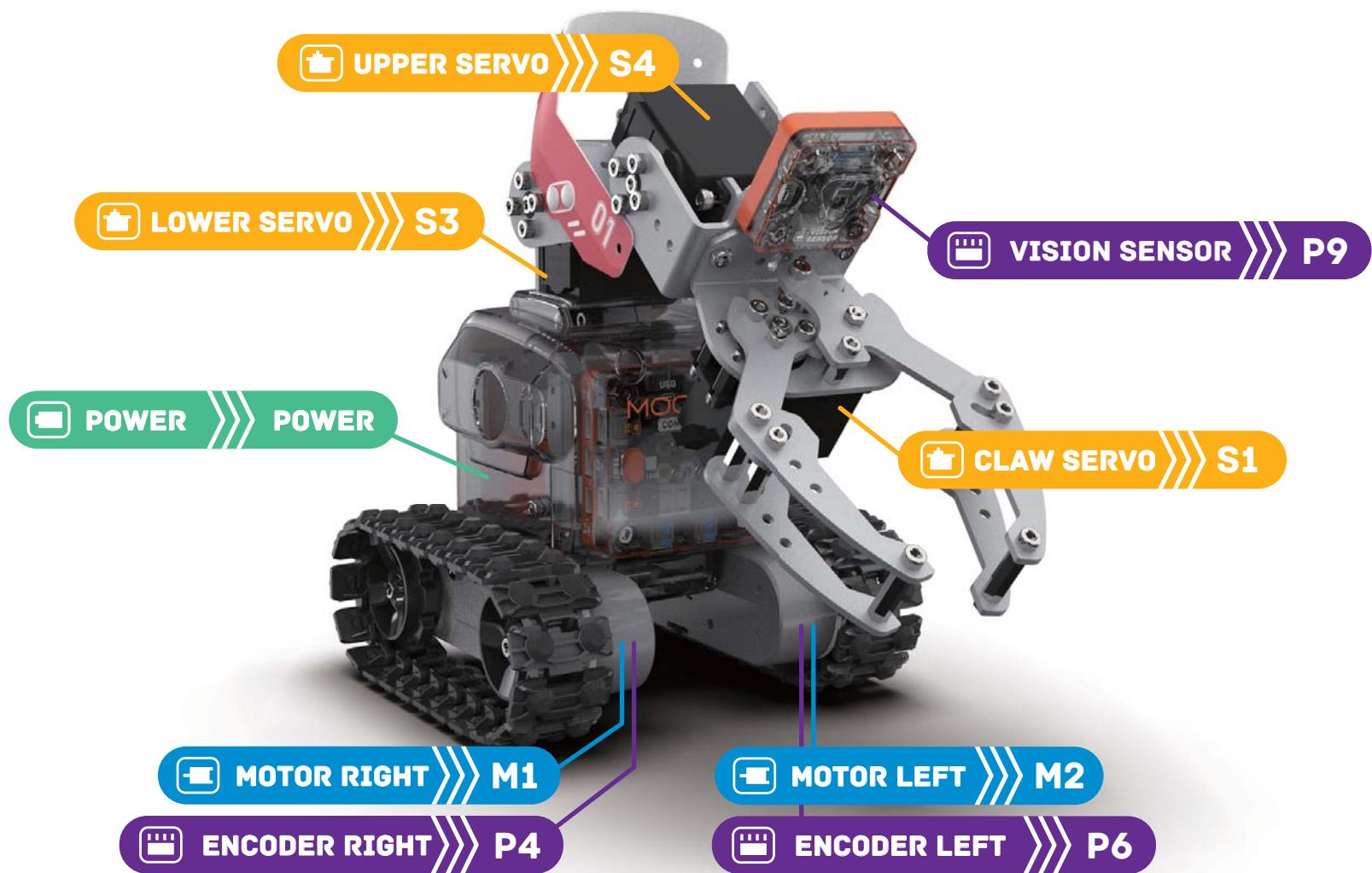


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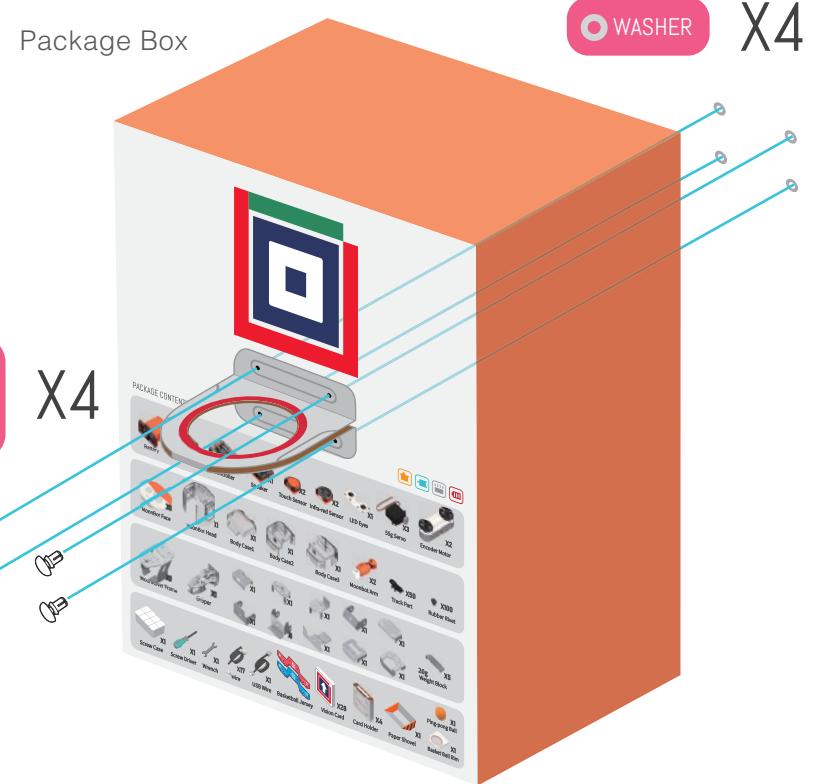
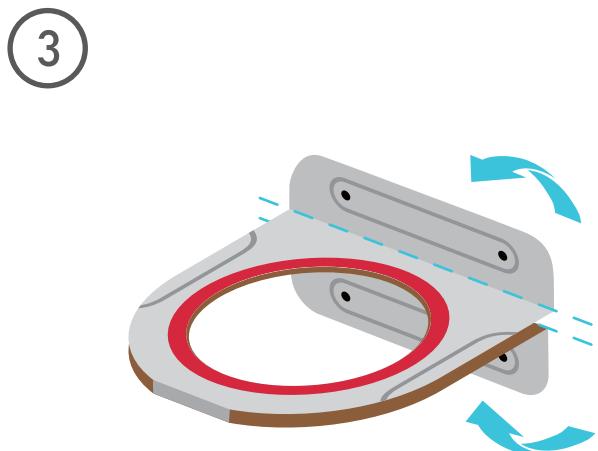
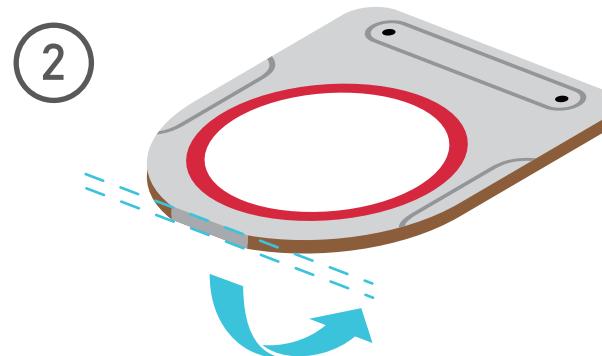


# CHECK CONNECTIONS

Reconfirm the wiring of each module as in the figure, otherwise MoonRover will not work properly.



# BUILD A BASKETBALL HOOP

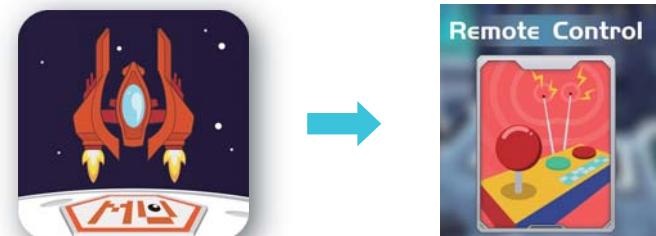


# REMOTE CONTROLLED BASKETBALL PLAYING

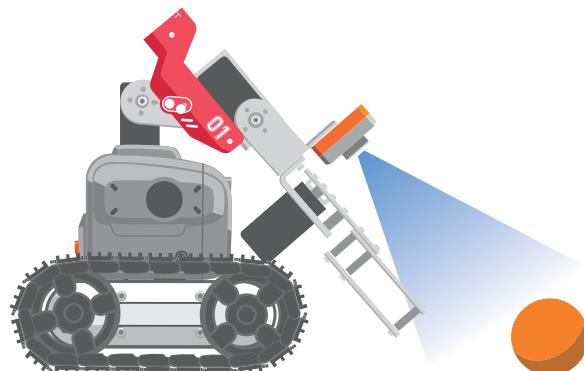
- 1 Press power button



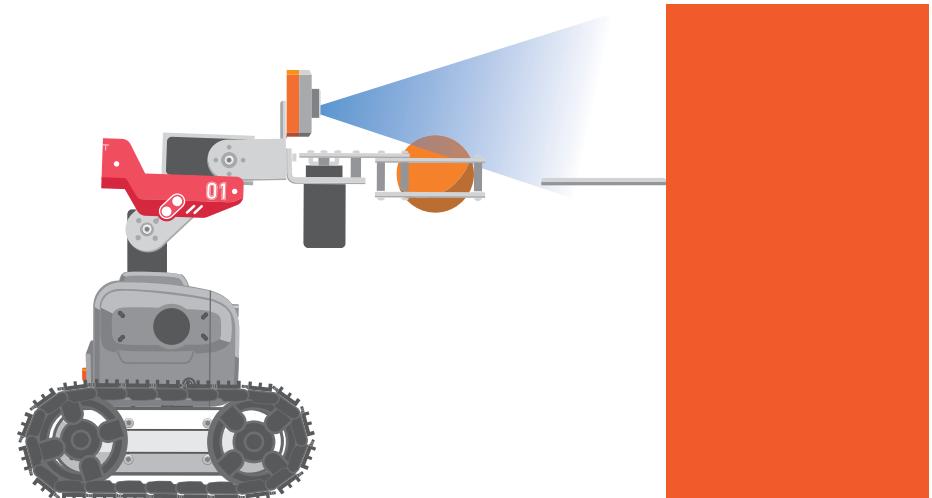
- 2 Start MU Bot APP & Connect



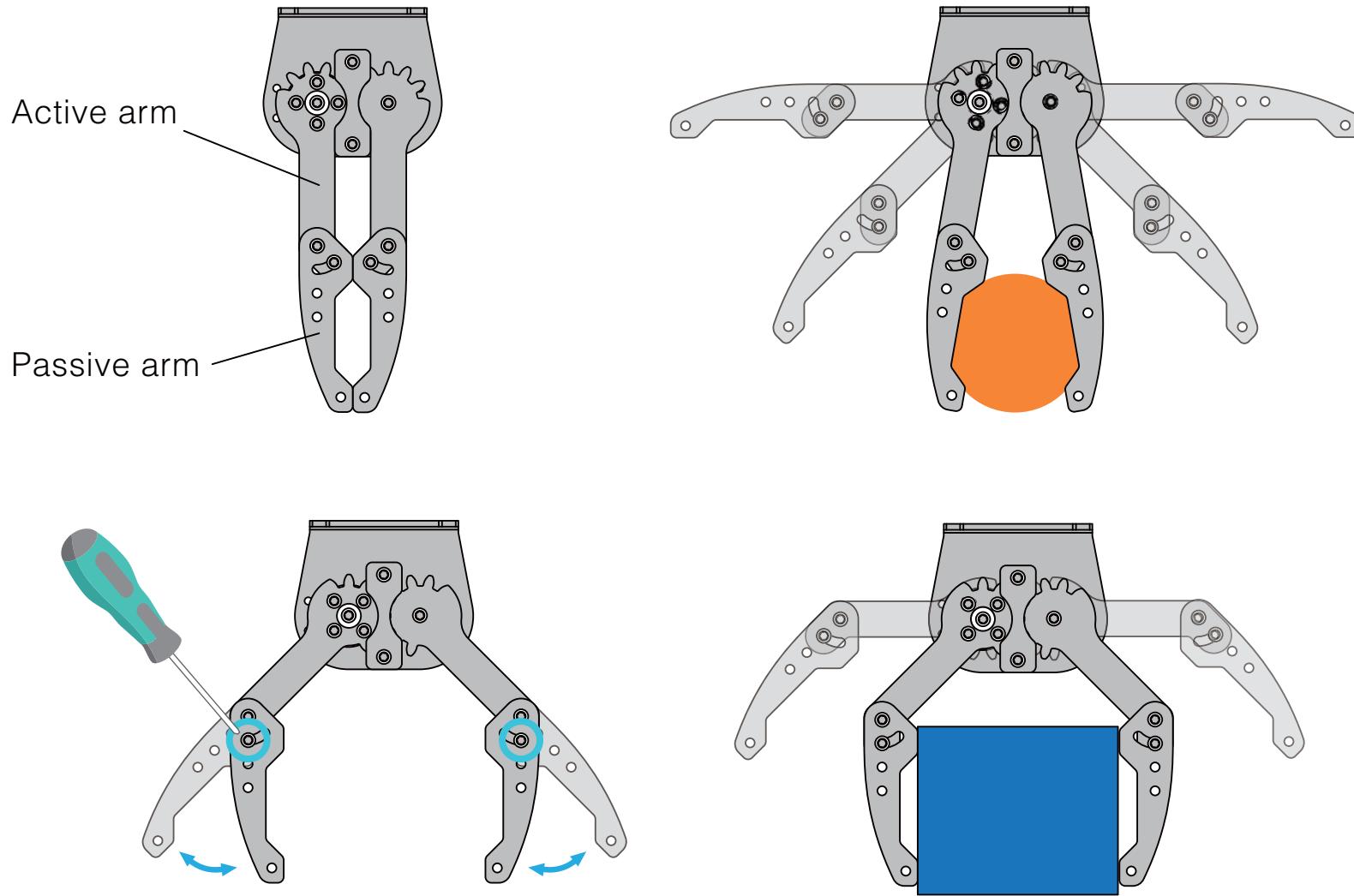
- 3 Place the Ball in front of your MoonMech.



- 4 Control the robot to go to the basketball hoop and show your shot



# ADJUST GRIPPER



Loosen the two screws, adjust the passive arm to the angle you want, then tighten it

# DISCOVER MORE

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