

# MoonMech

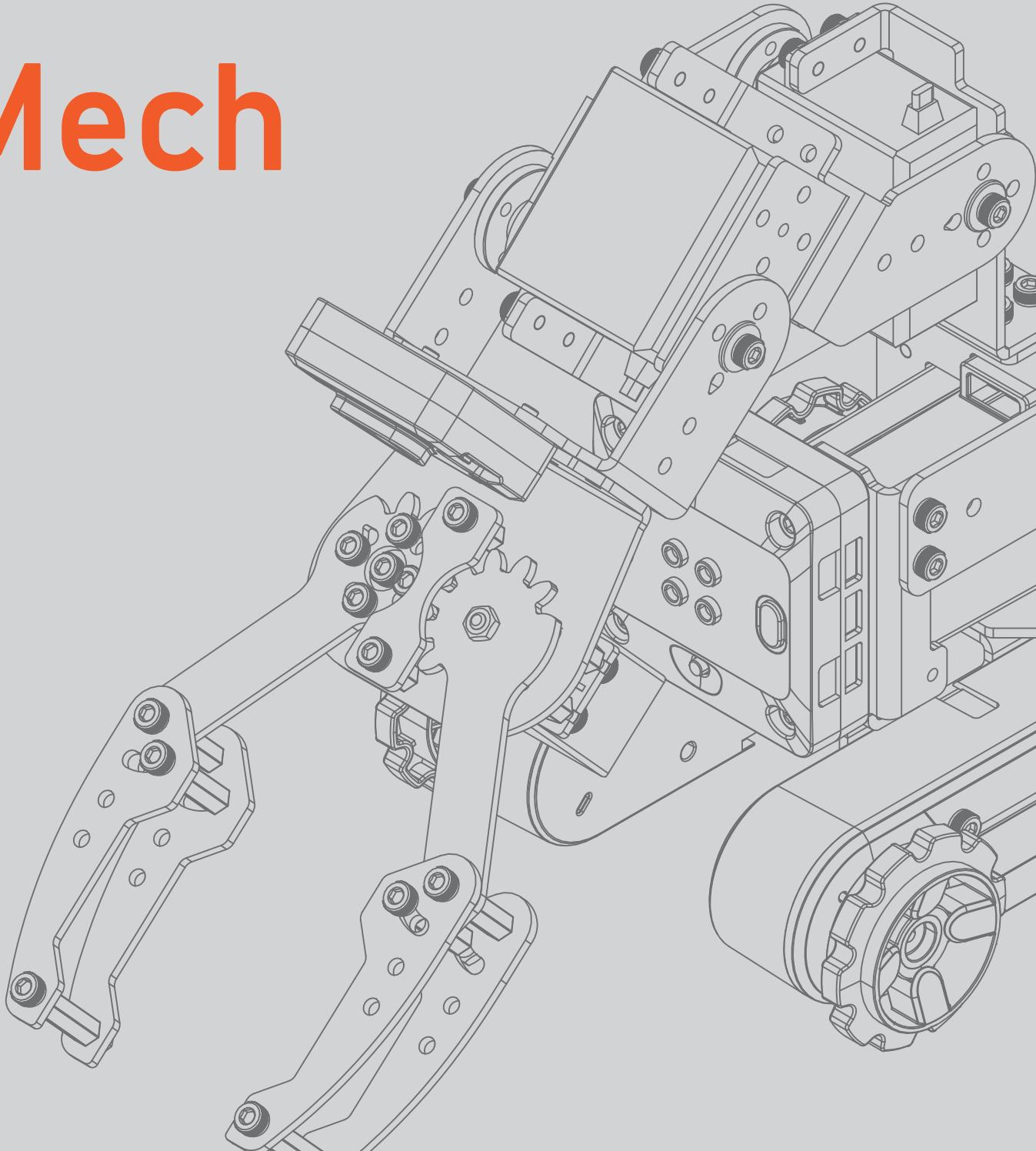
## Manual

**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.

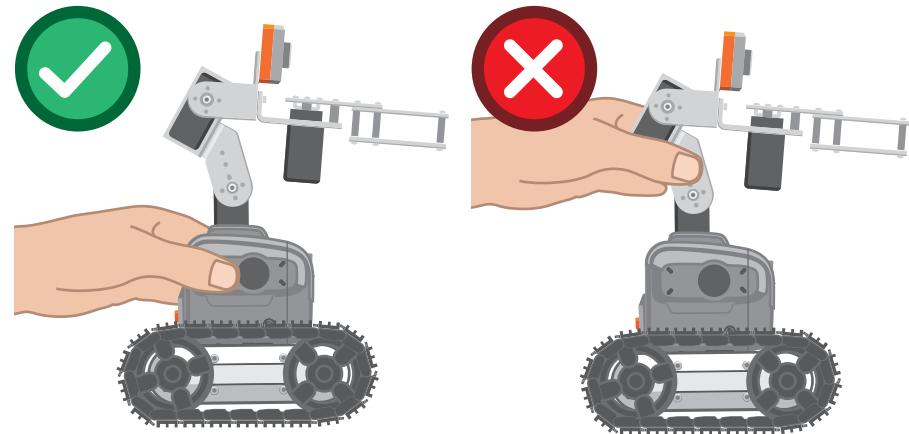
## POWER MODULE(Battery)

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

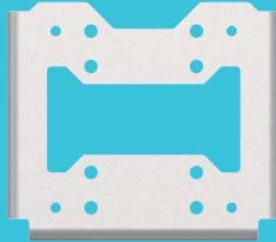



1:1

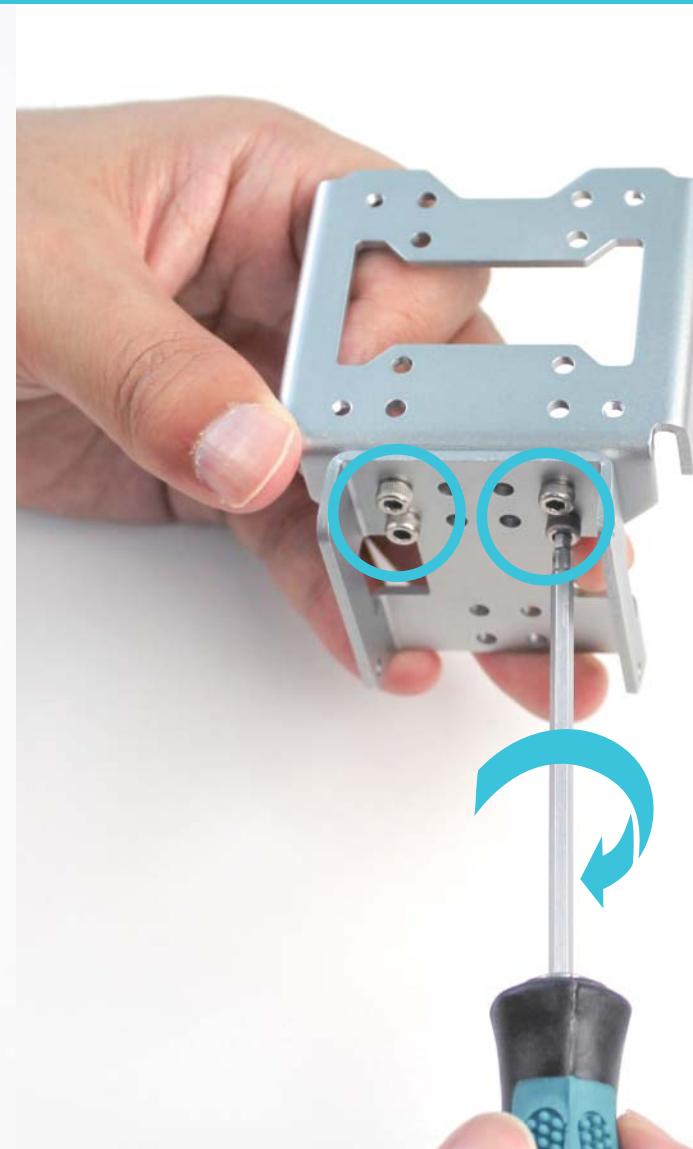
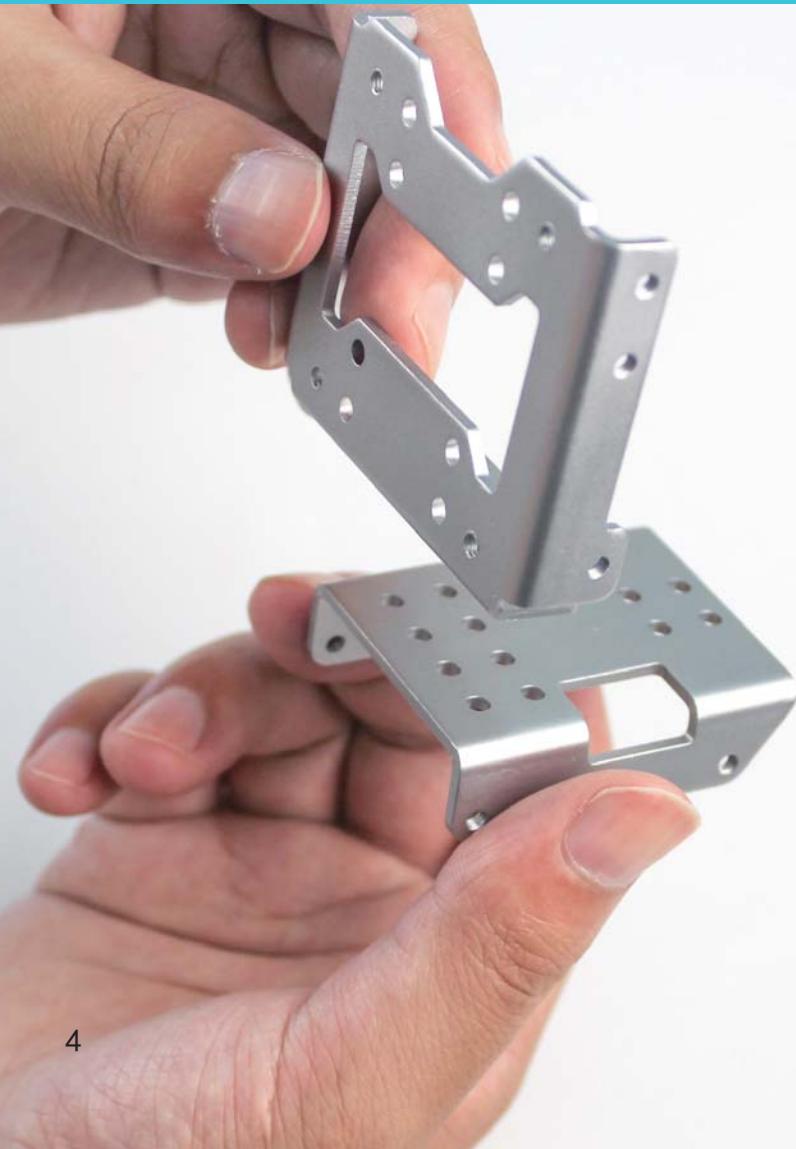


Please compare the length of the screw as shown in Figure 1:1.

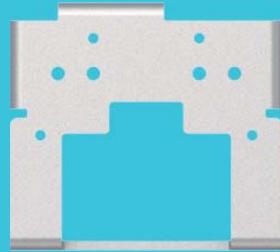
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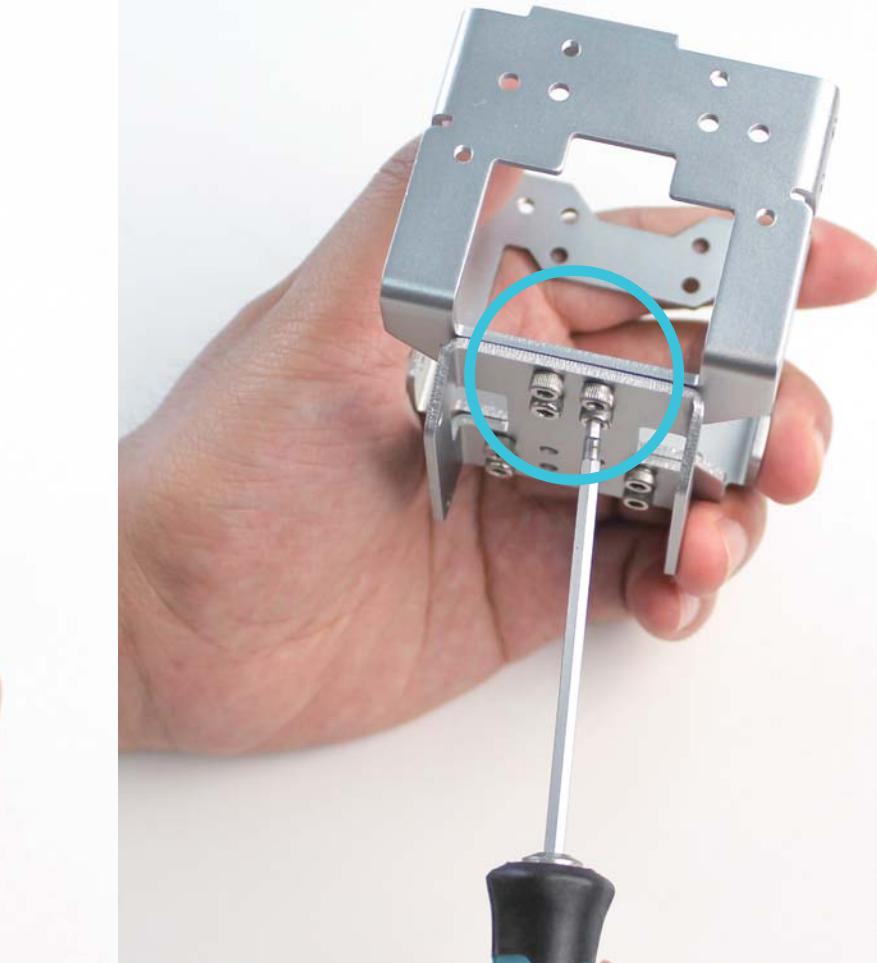
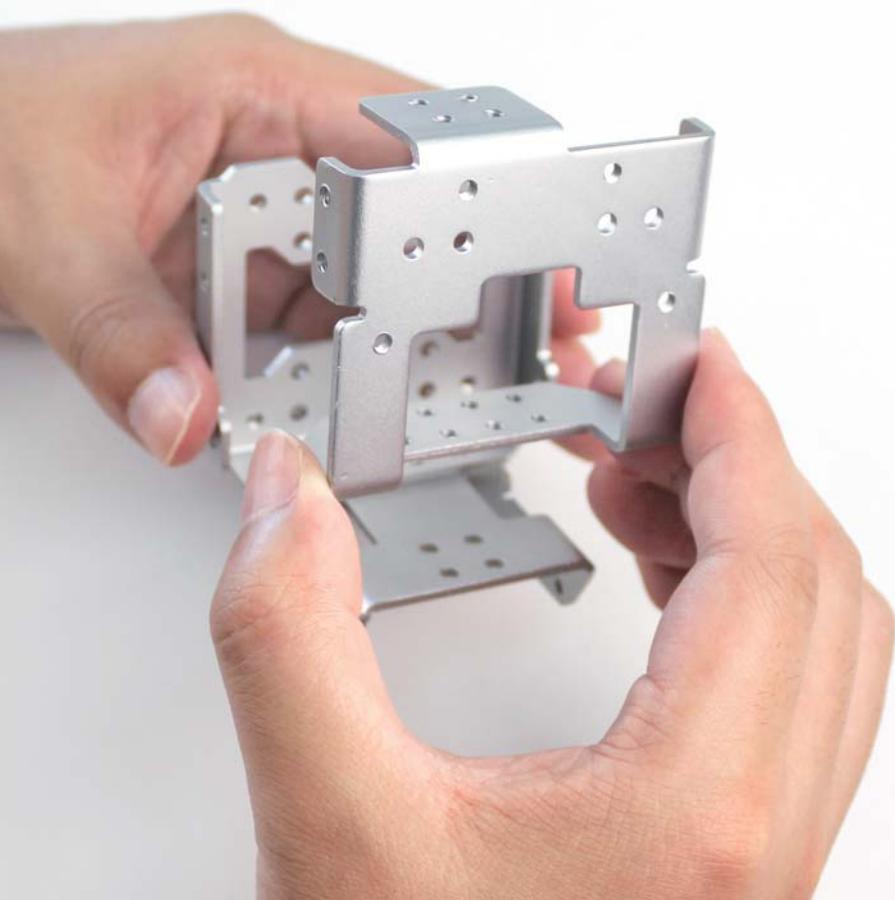
M3X4  
X4



2



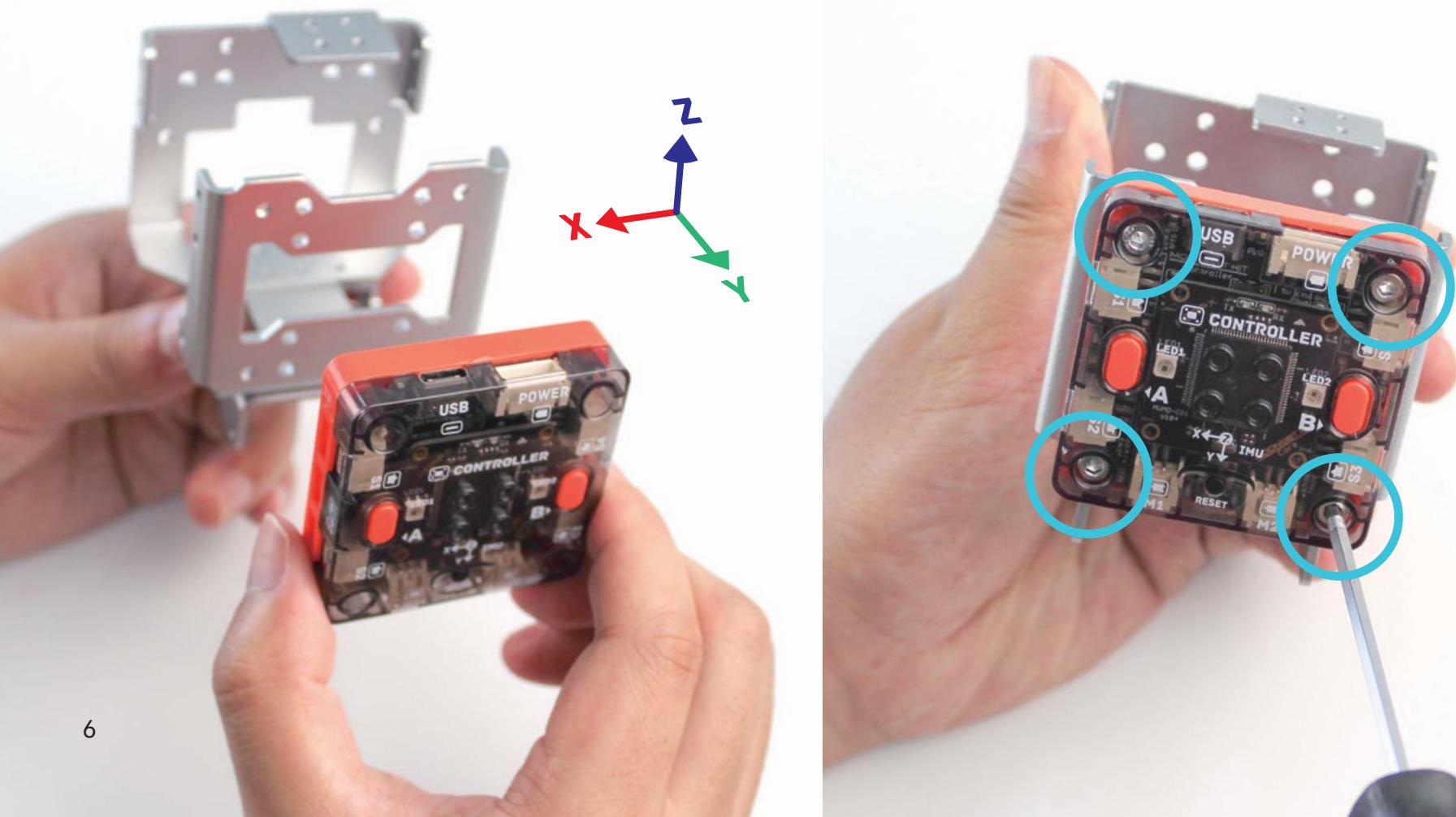
X4



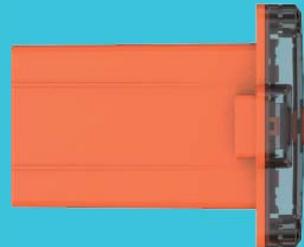
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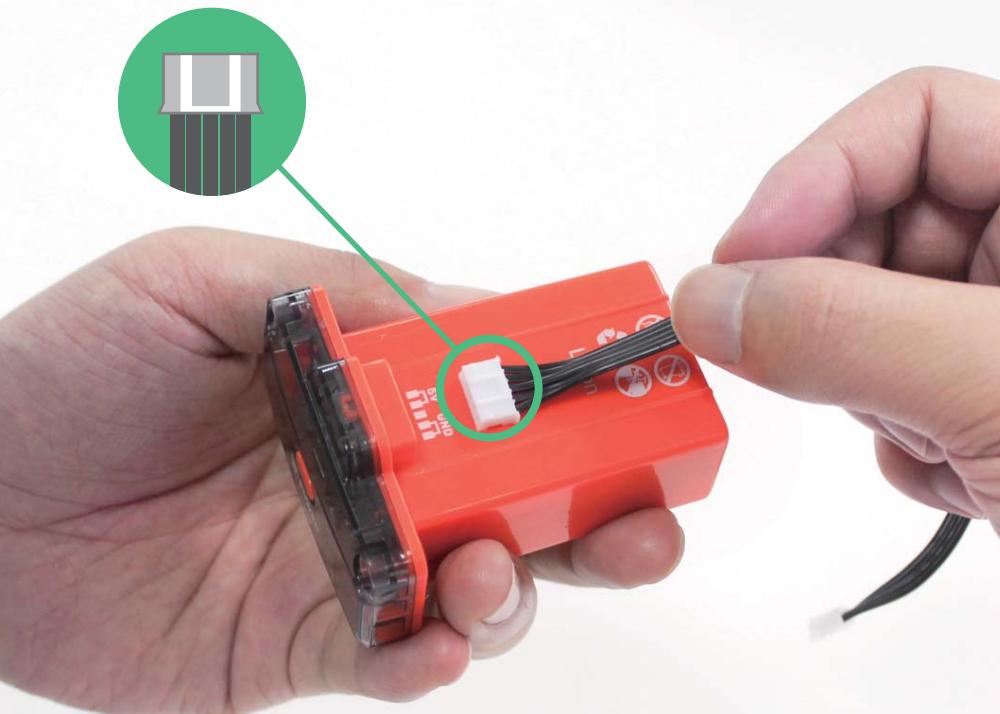
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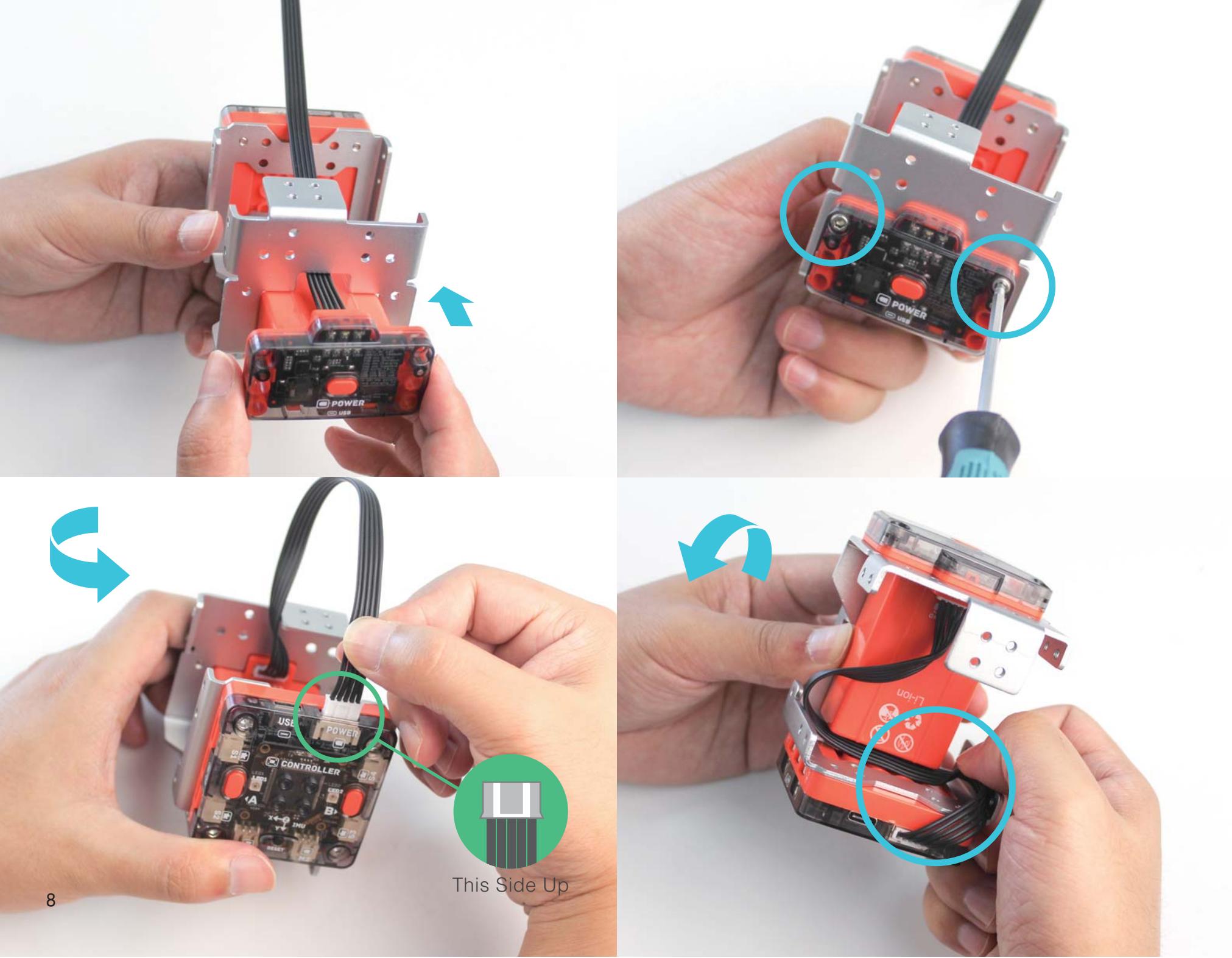


4



This Side Up

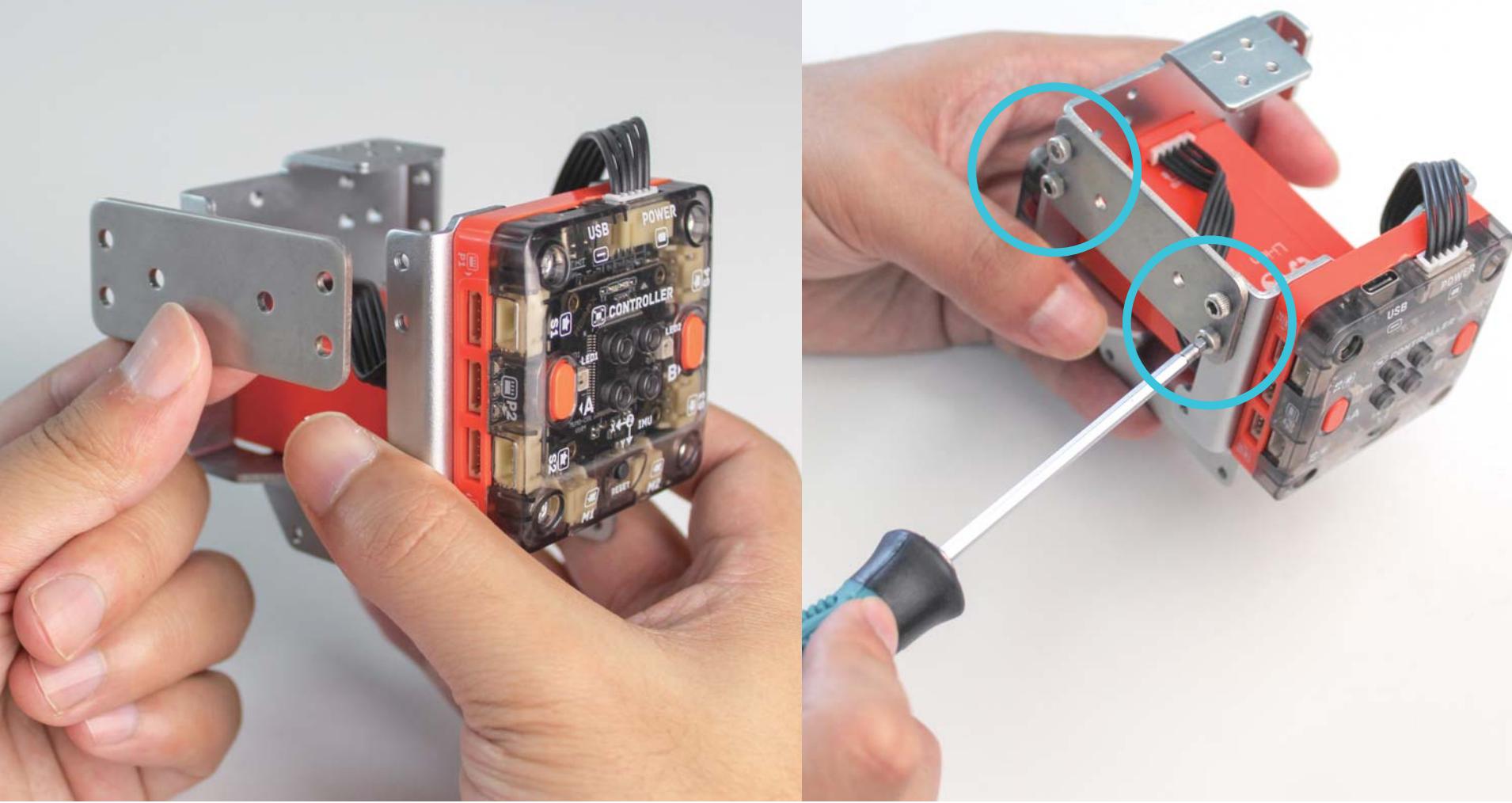




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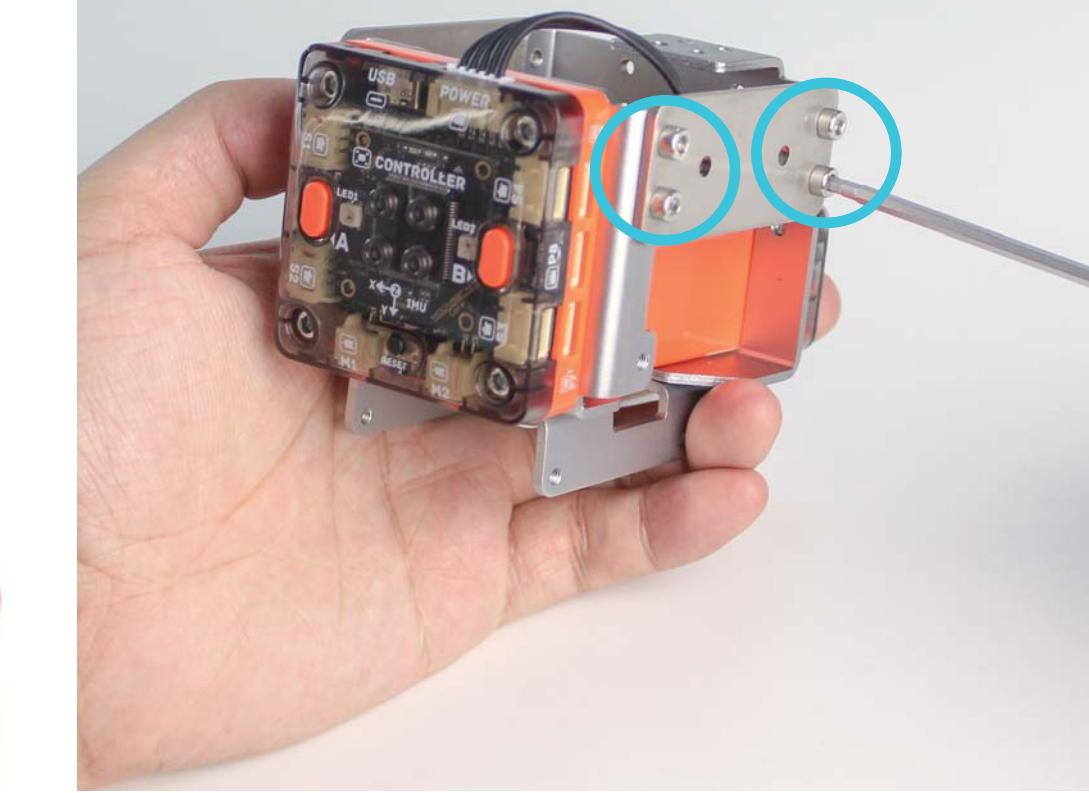
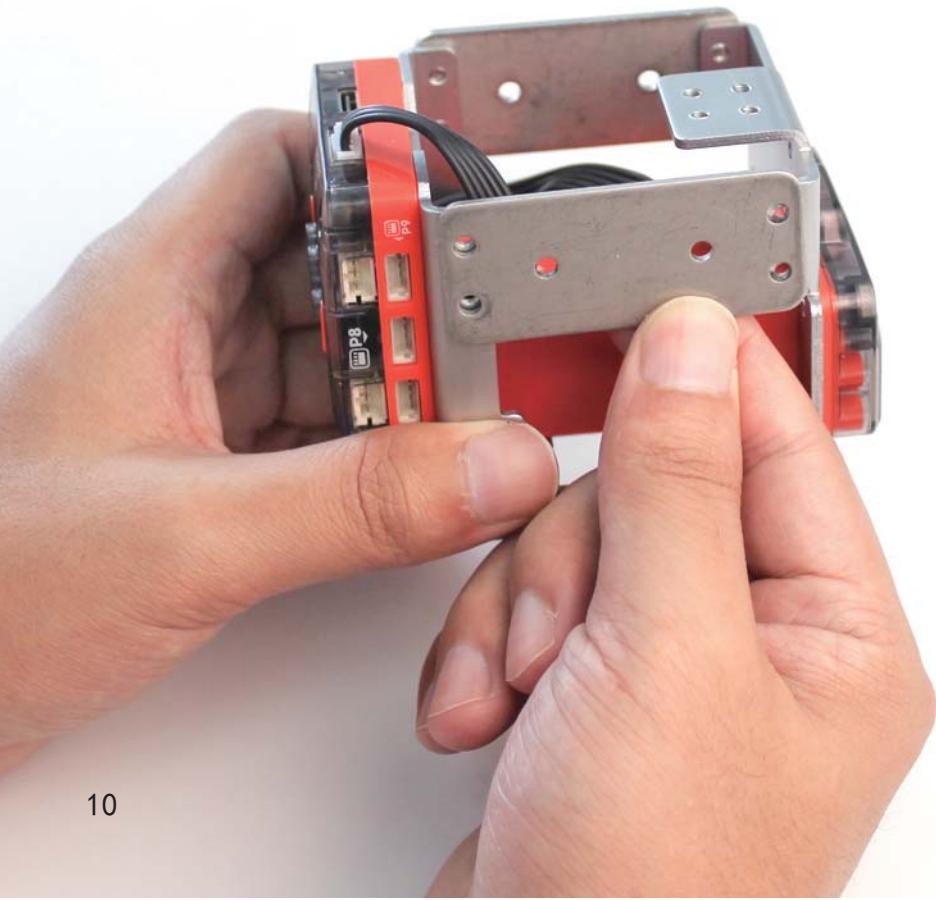
X4



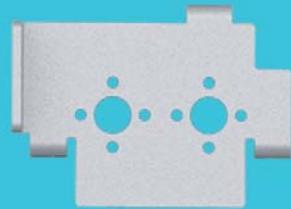
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X4

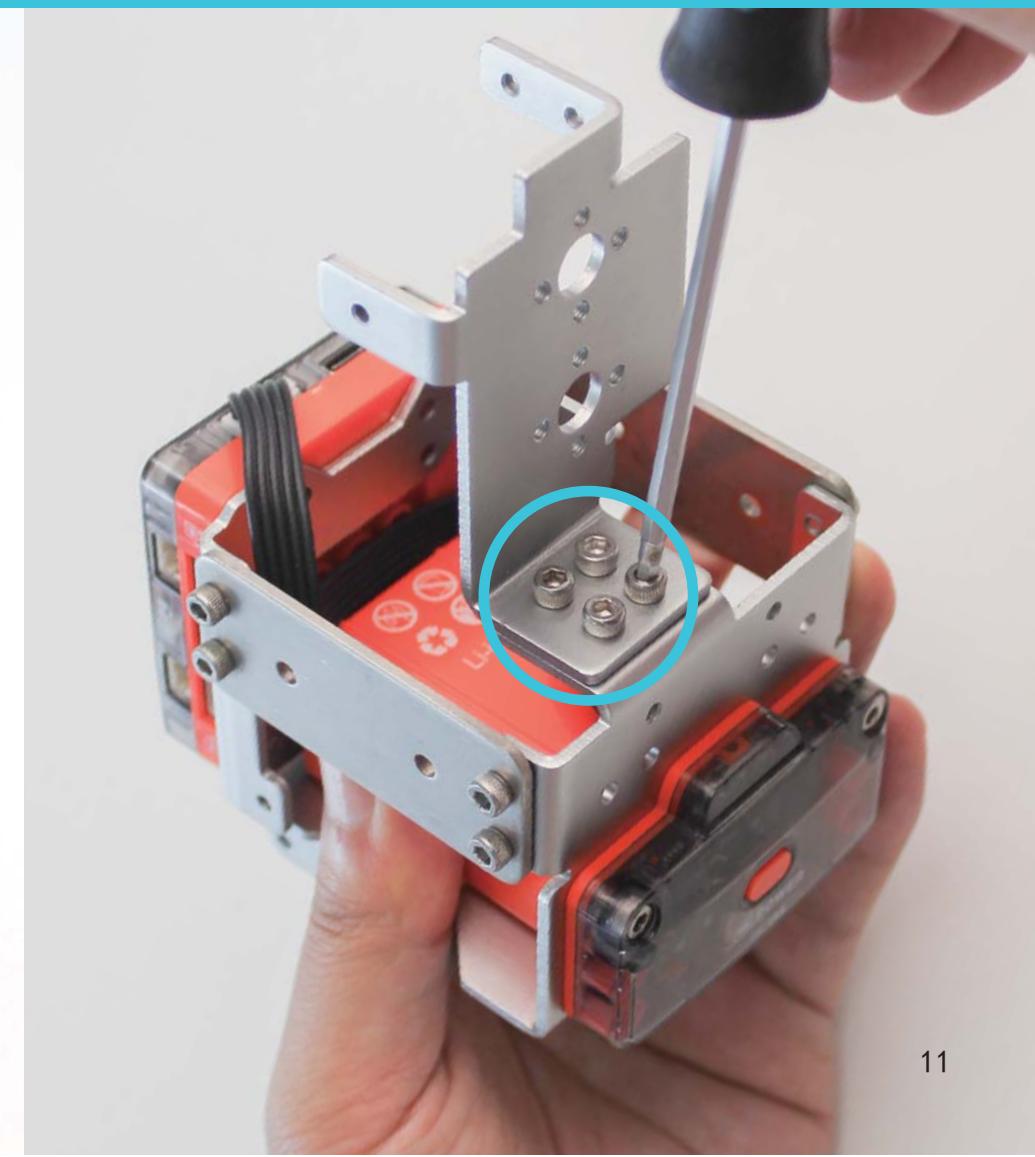
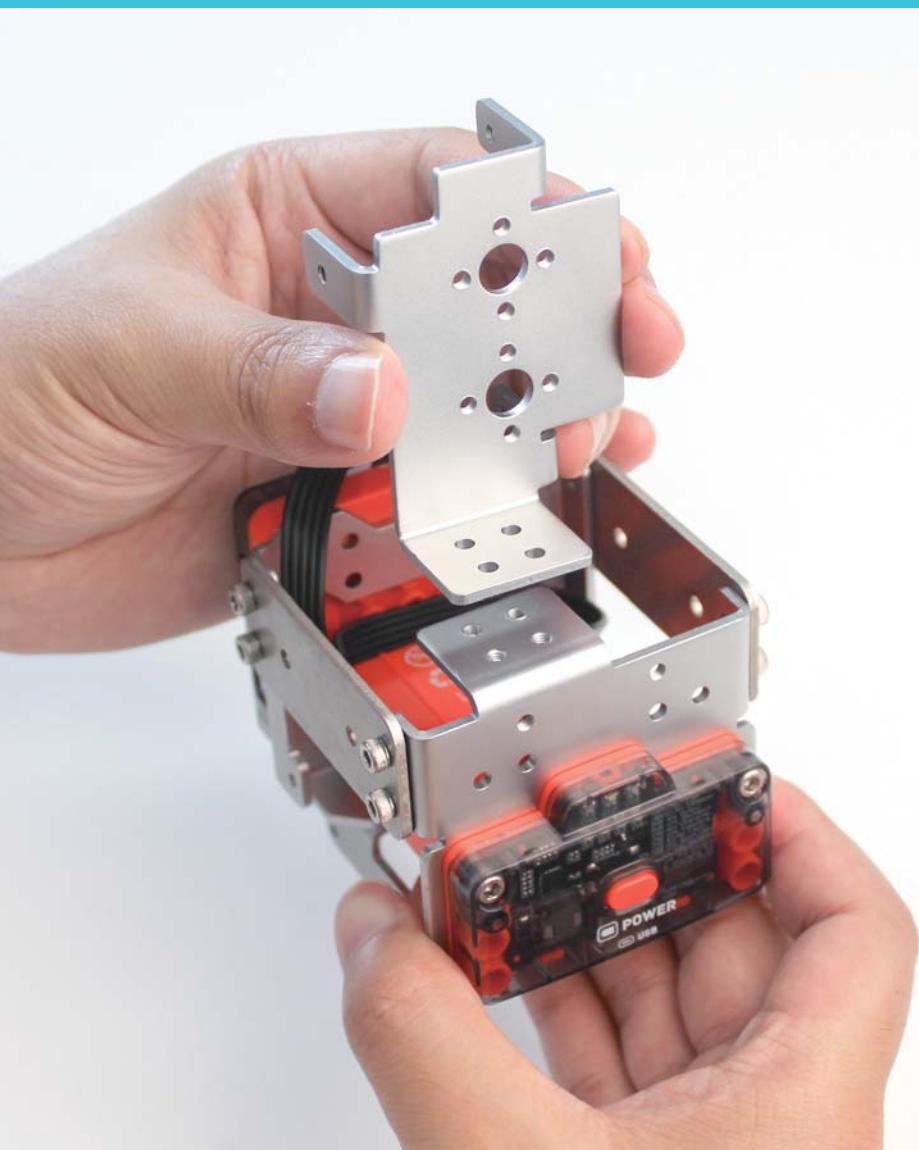


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M3X4

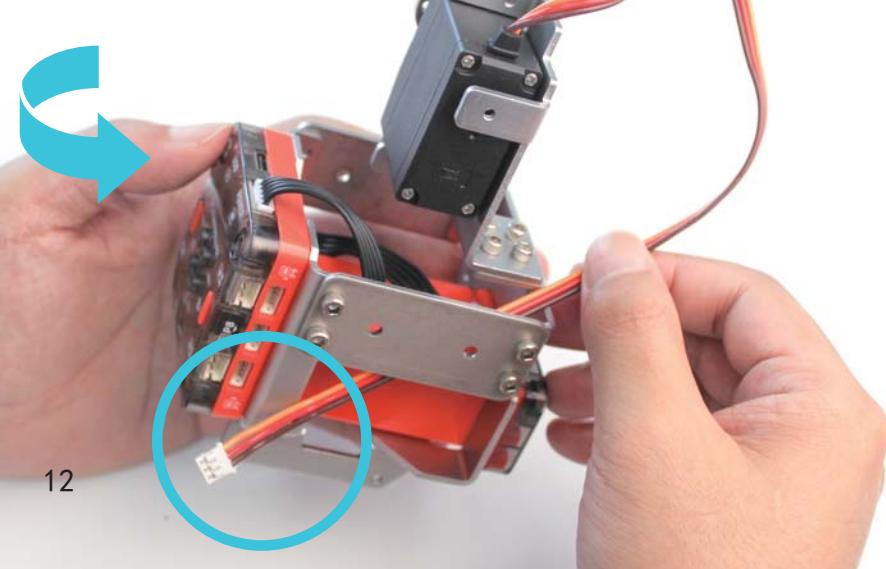
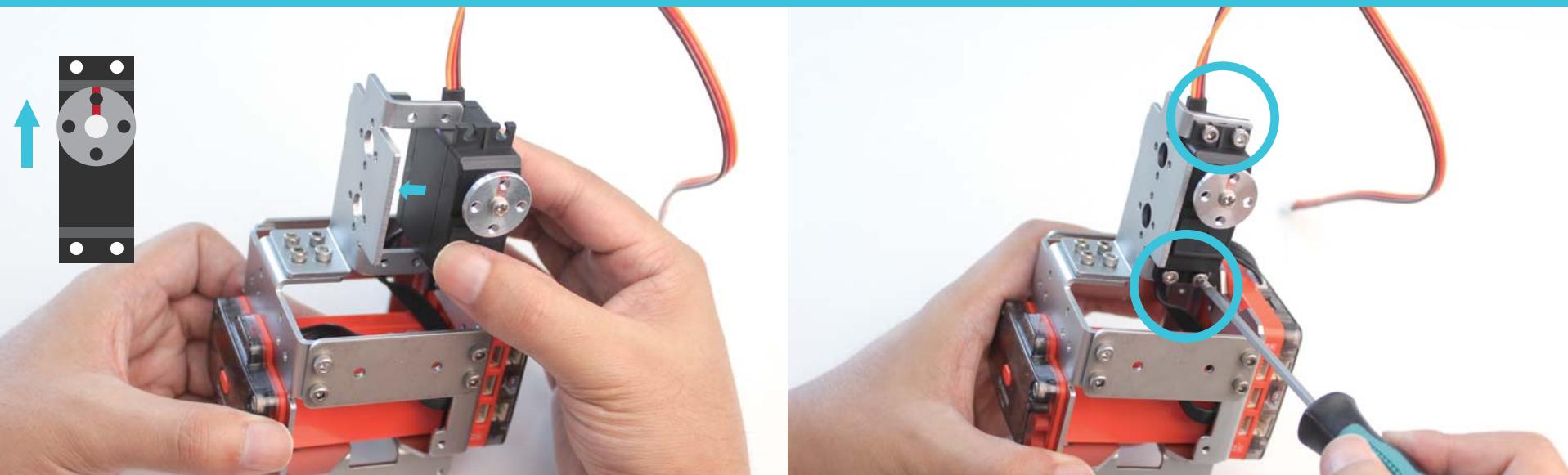
X4



8



M3X4  
X4

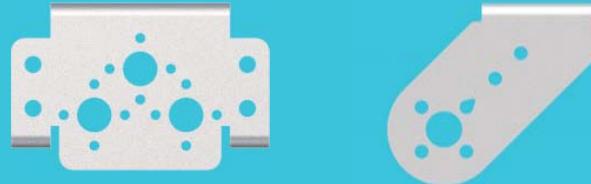


LOWER SERVO »» S3



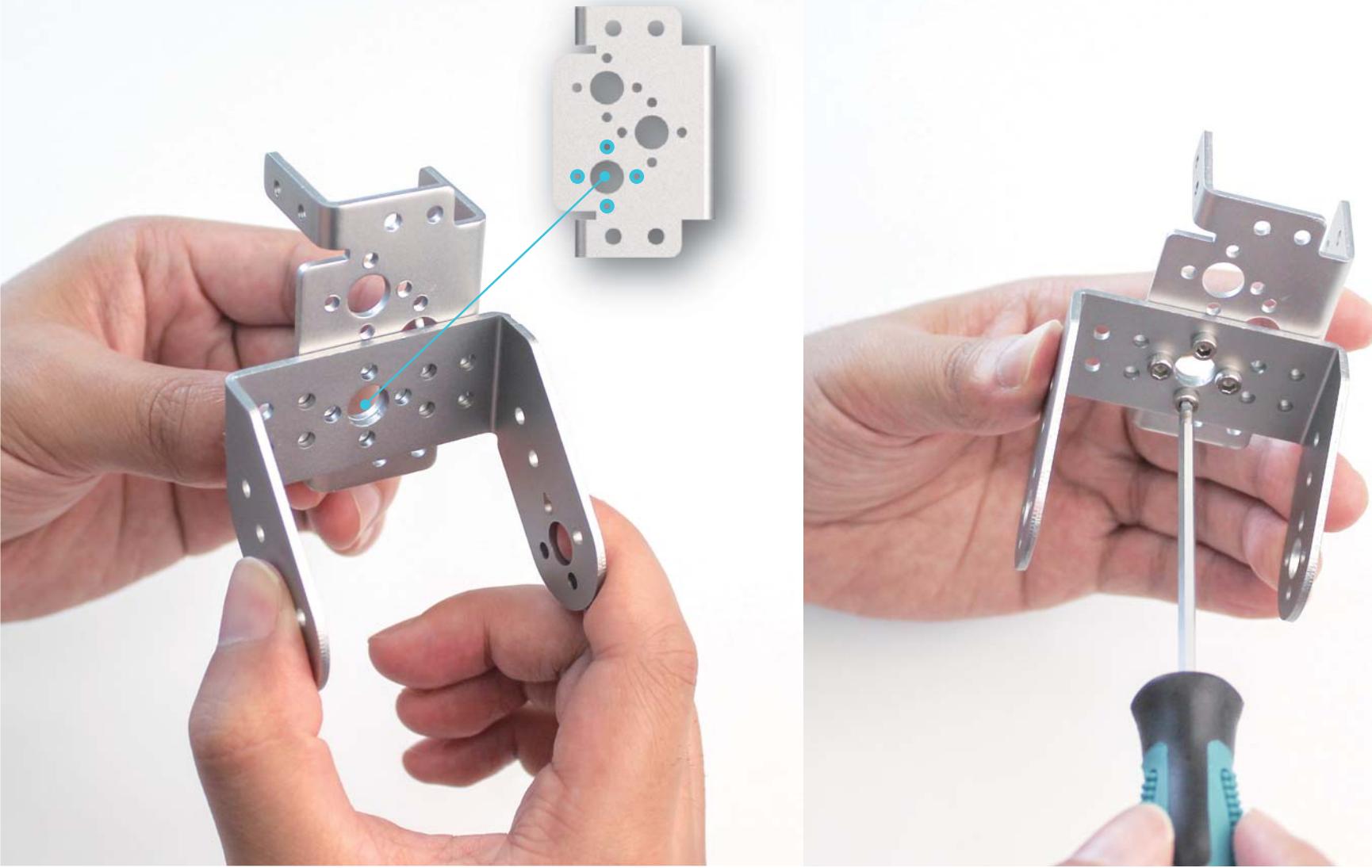
This Side Up

9



M3X4

X4

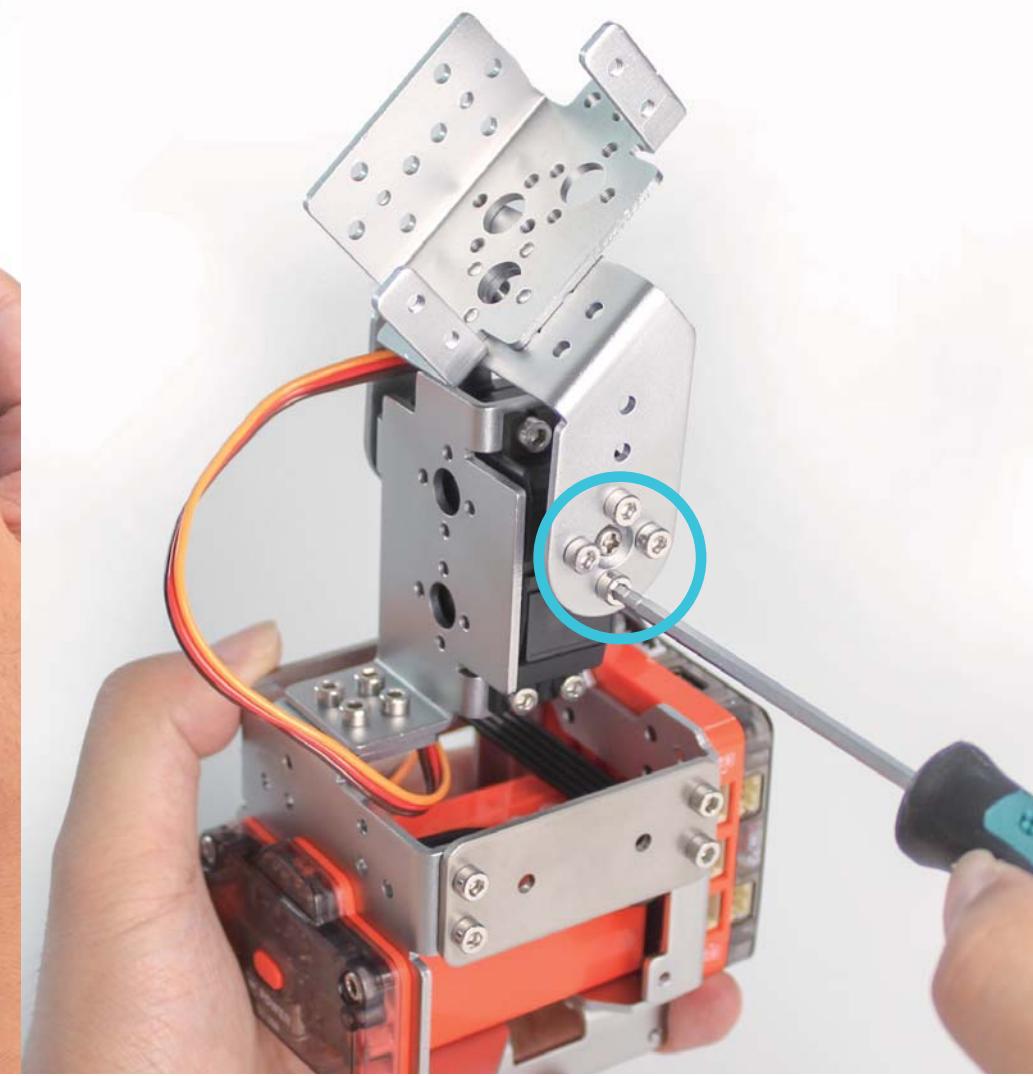
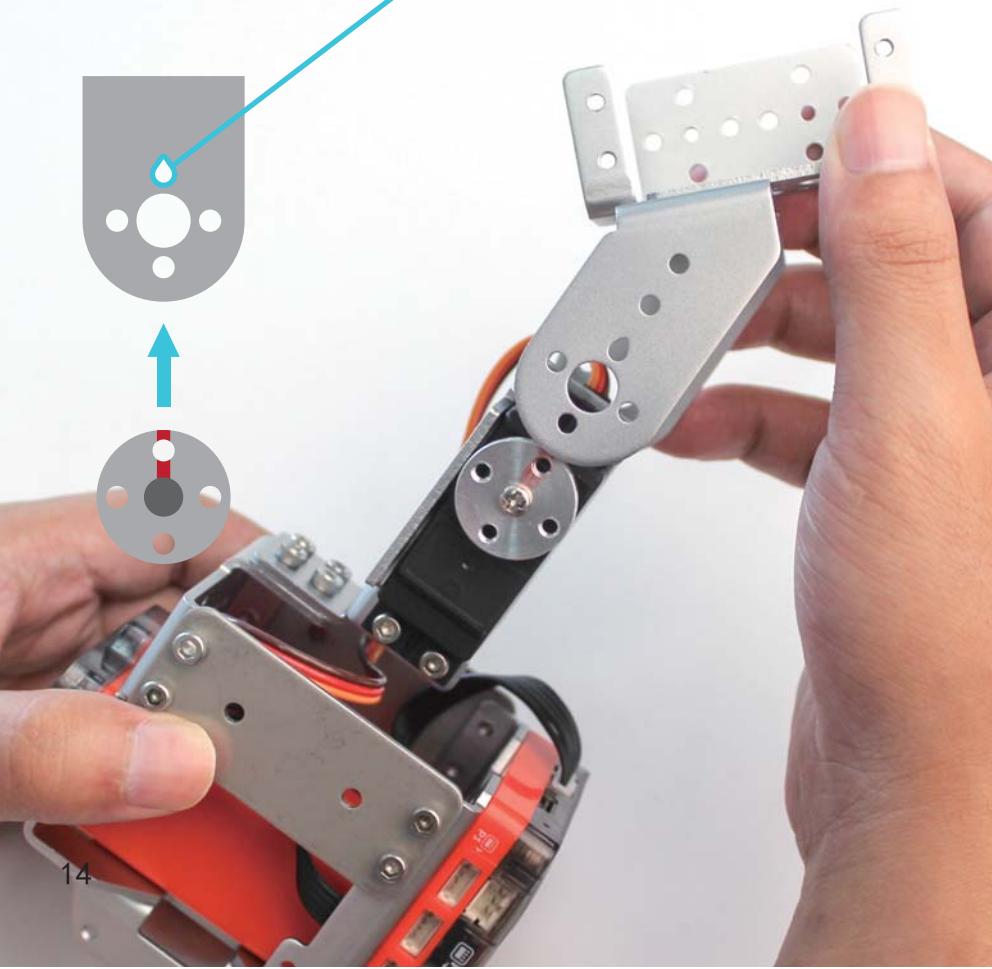


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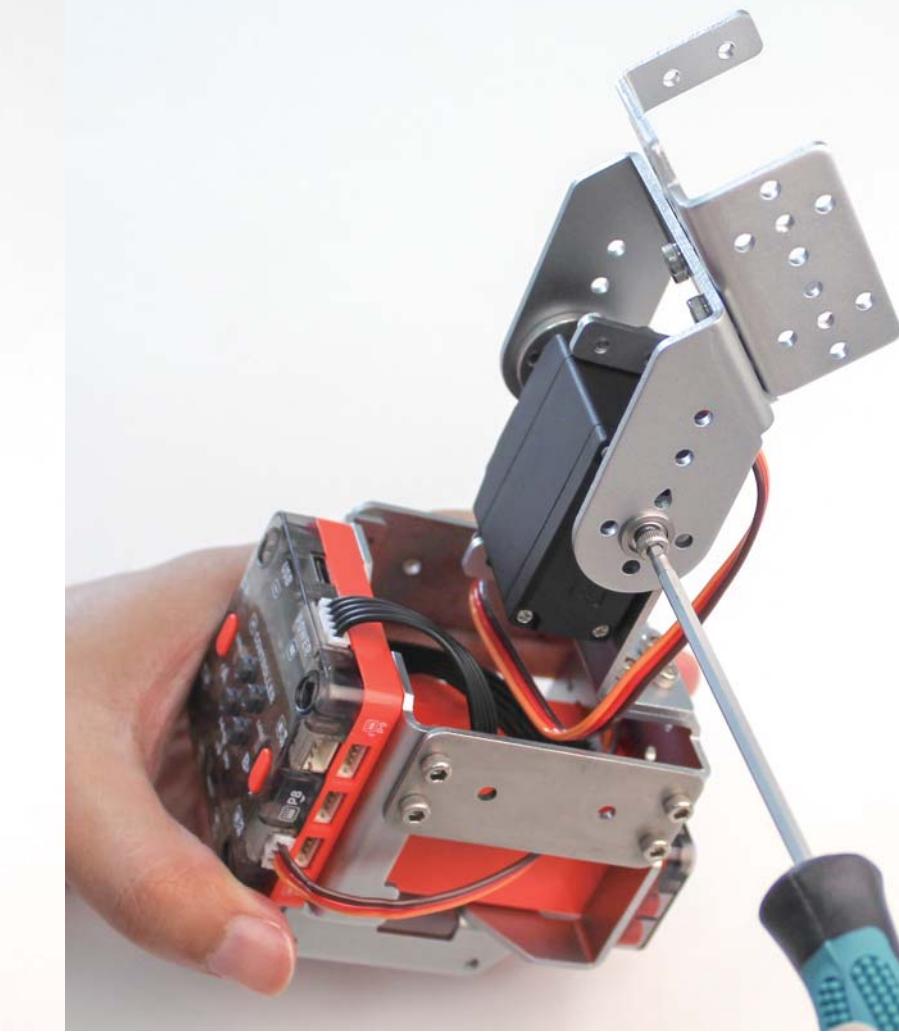
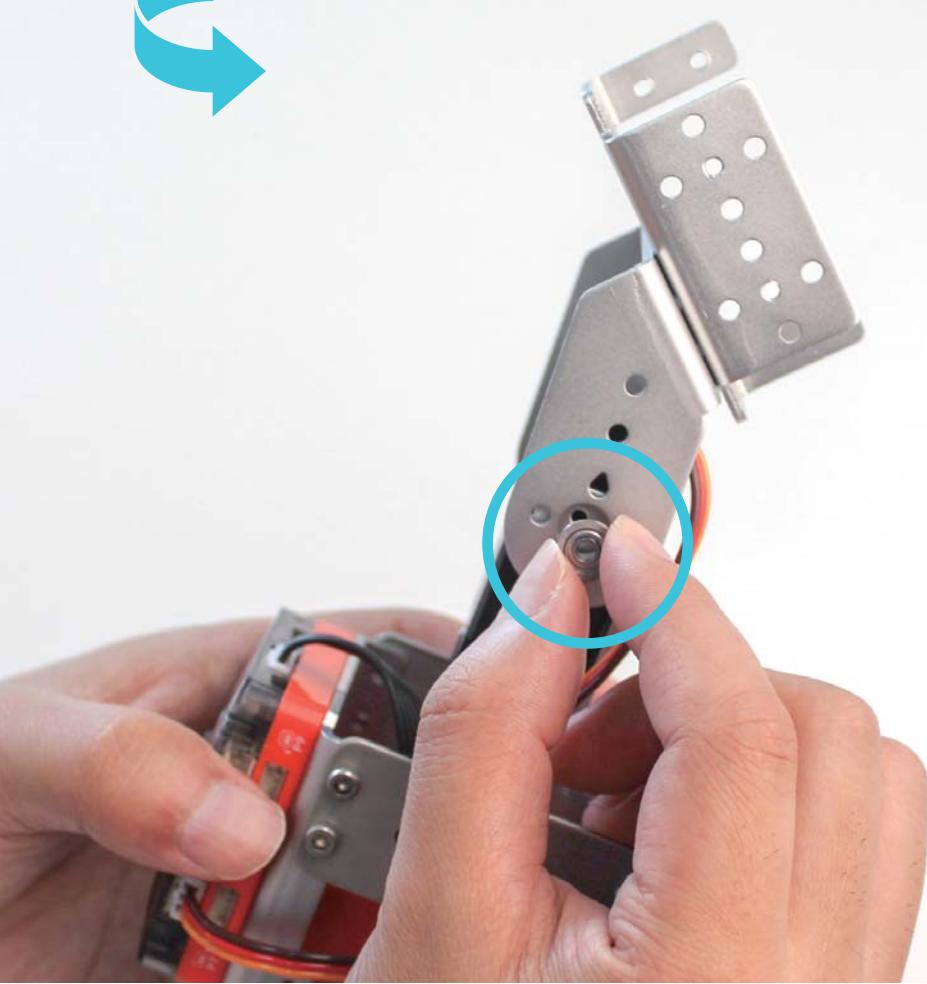


X4

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



11

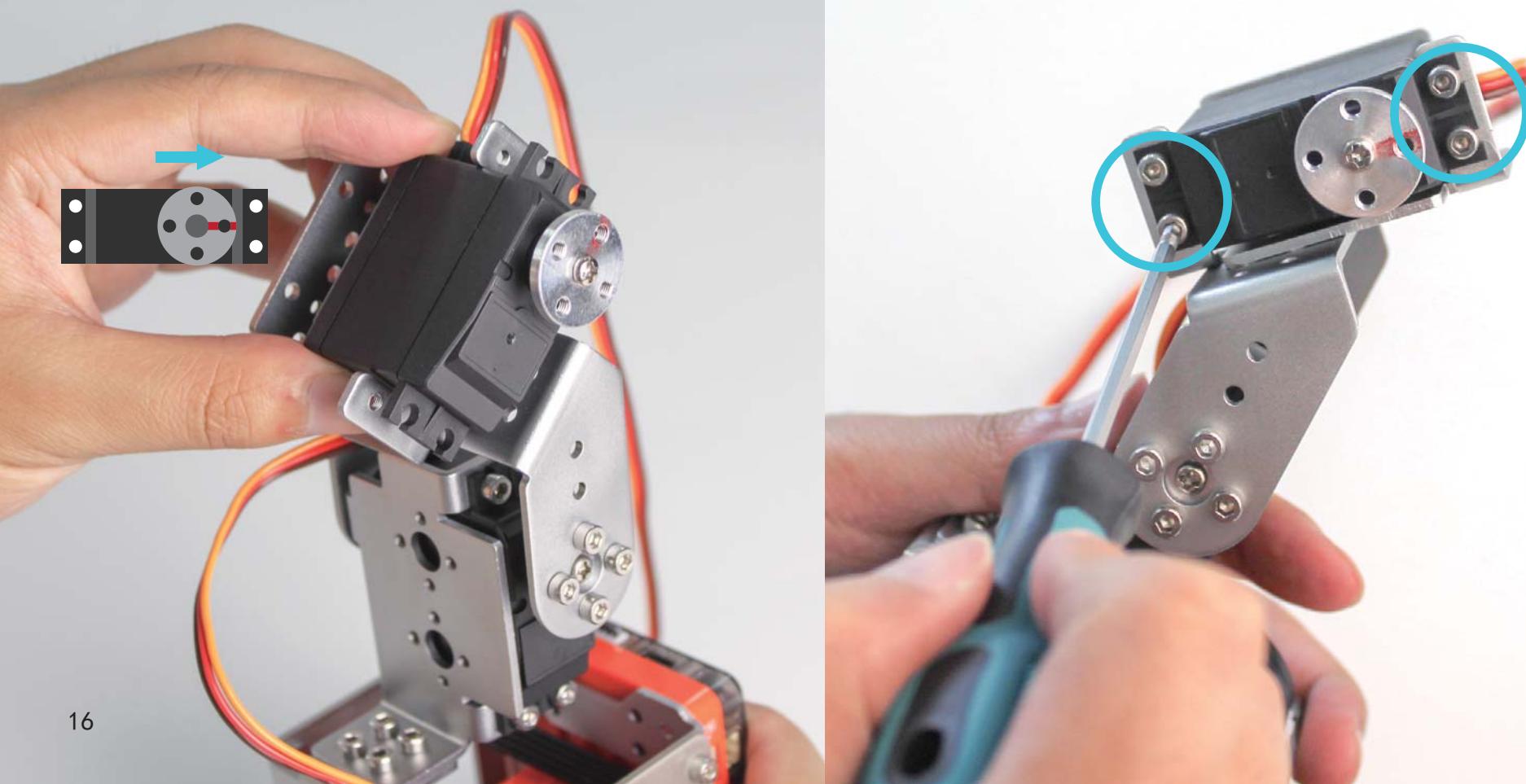


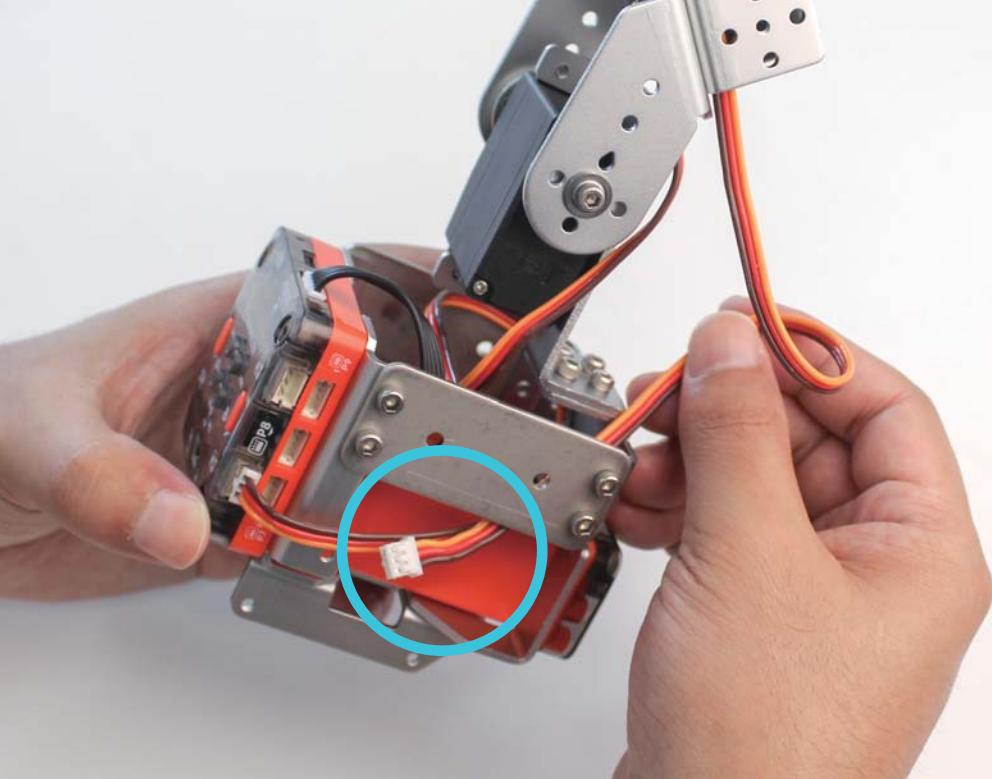
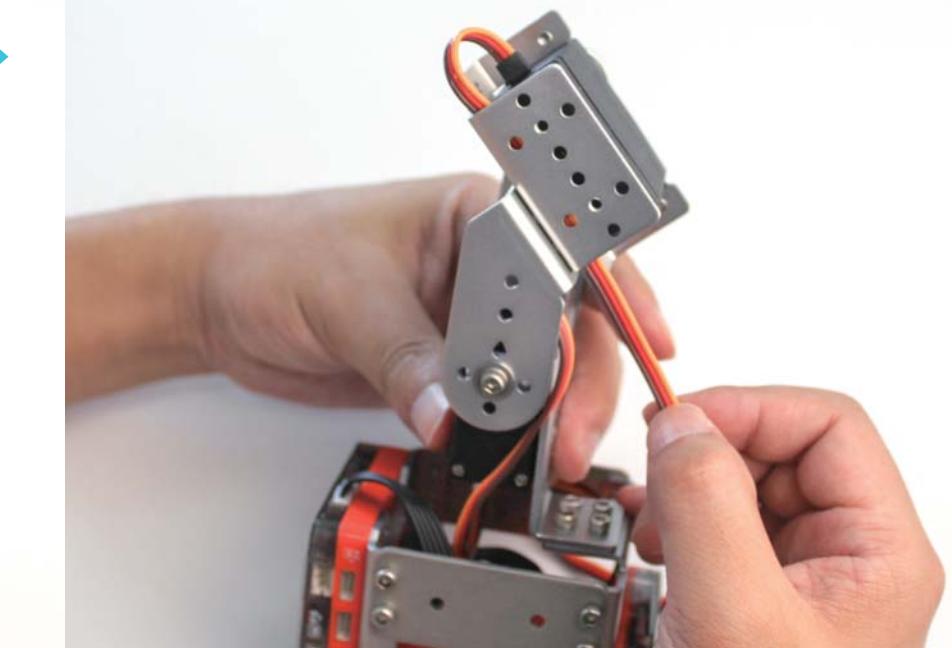
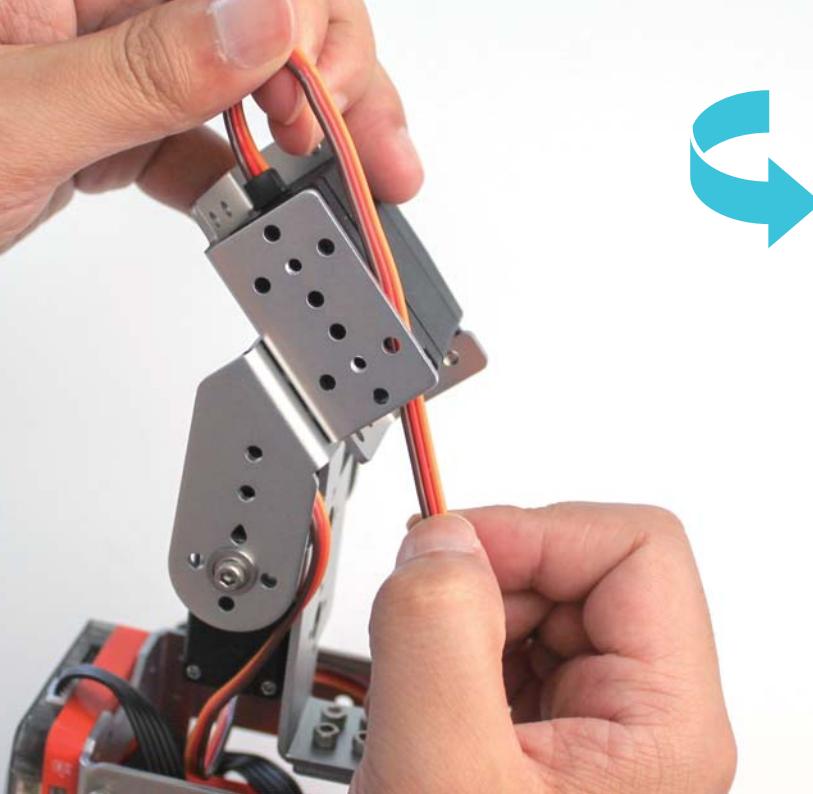
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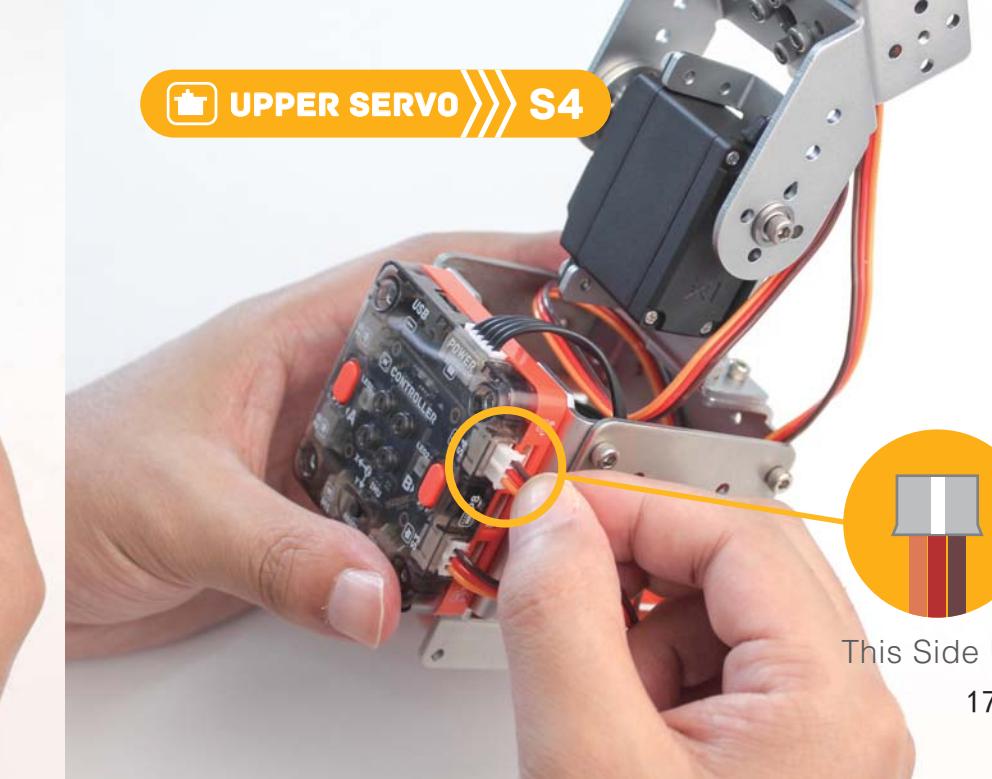
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X4

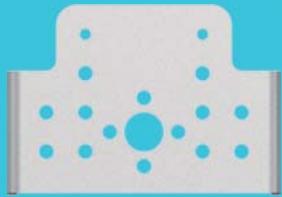




UPPER SERVO ➞ S4



13



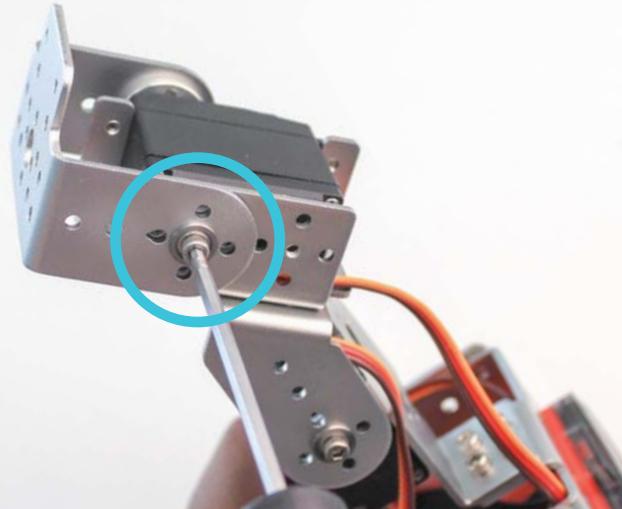
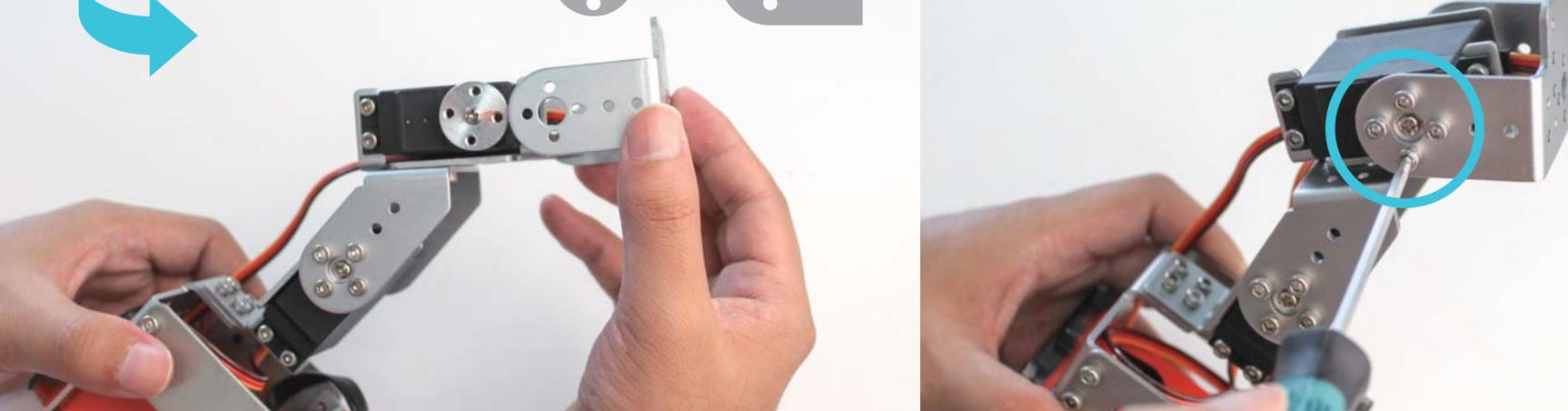
X4



BEARING



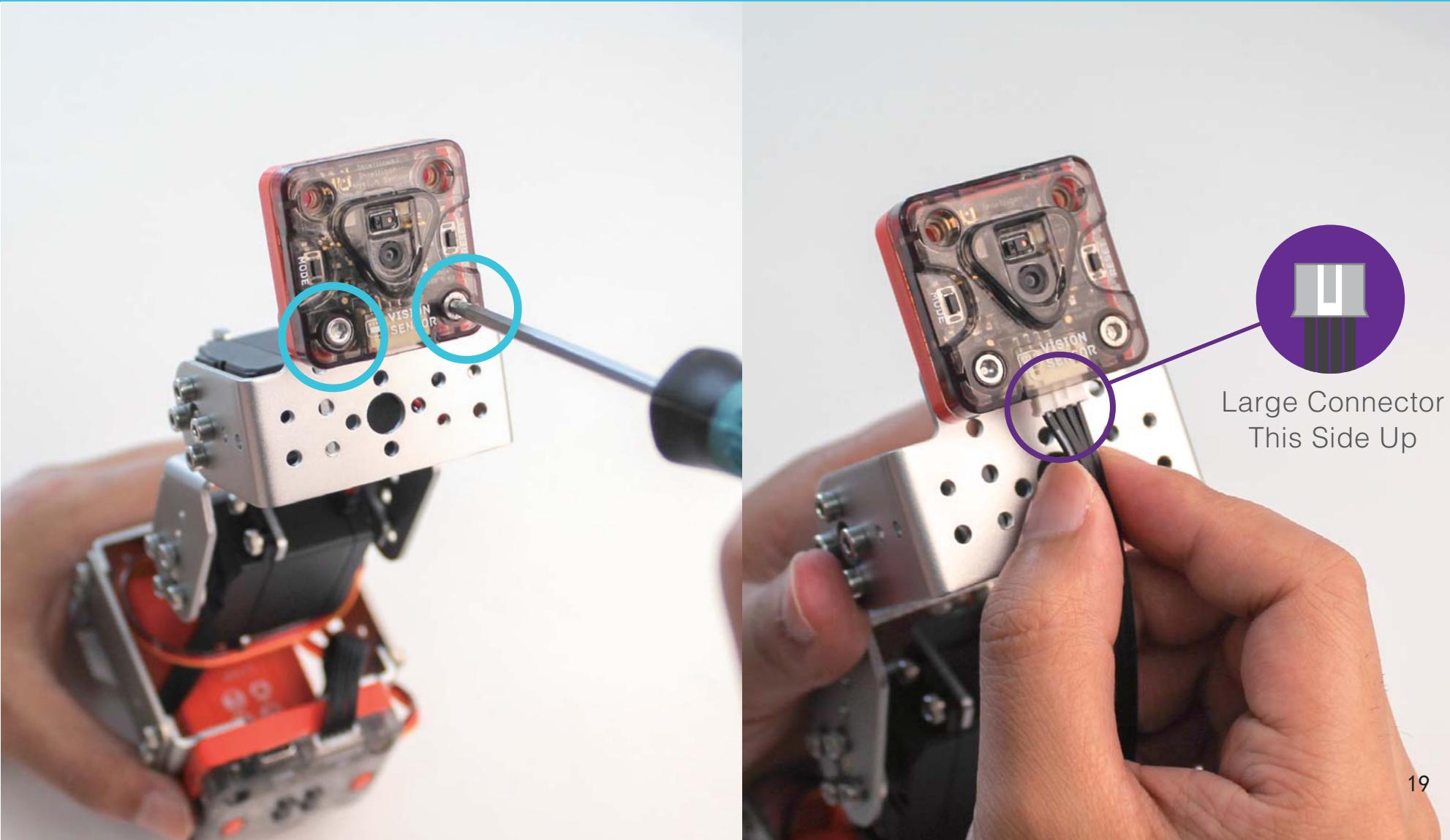
M3X8

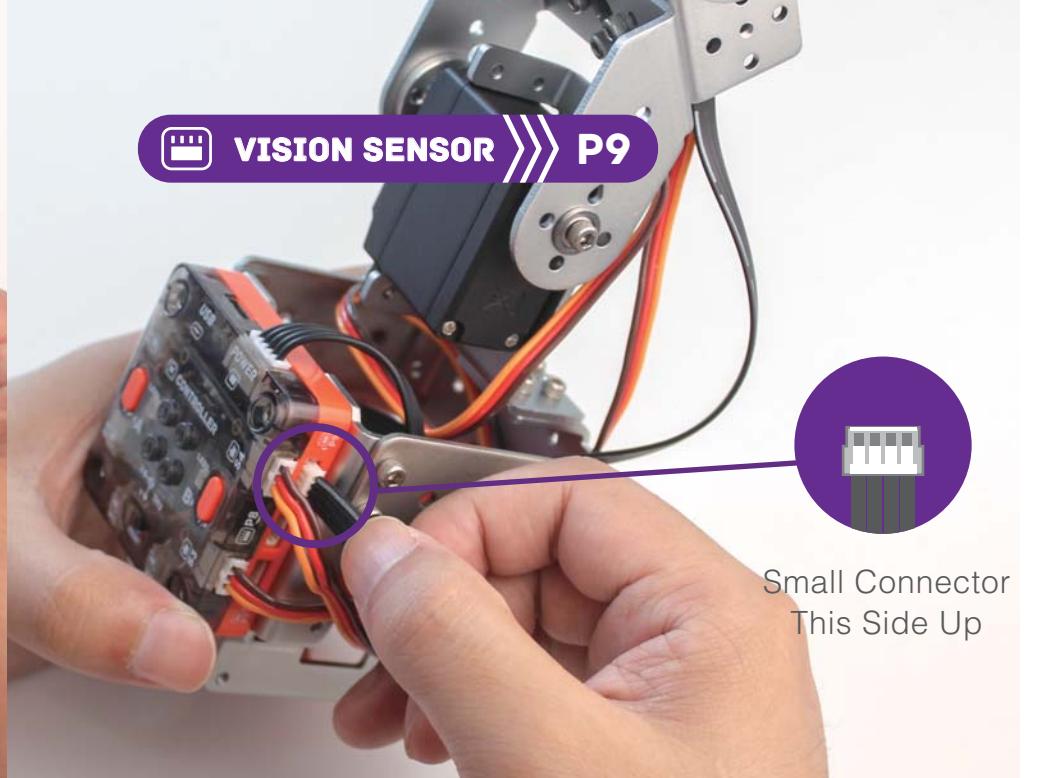
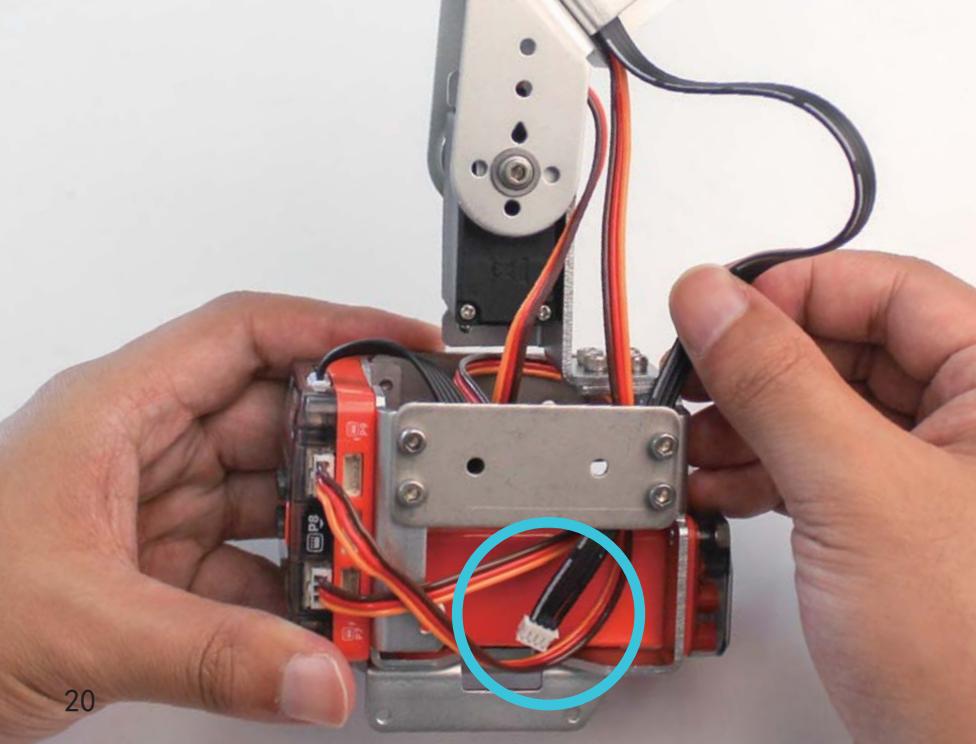
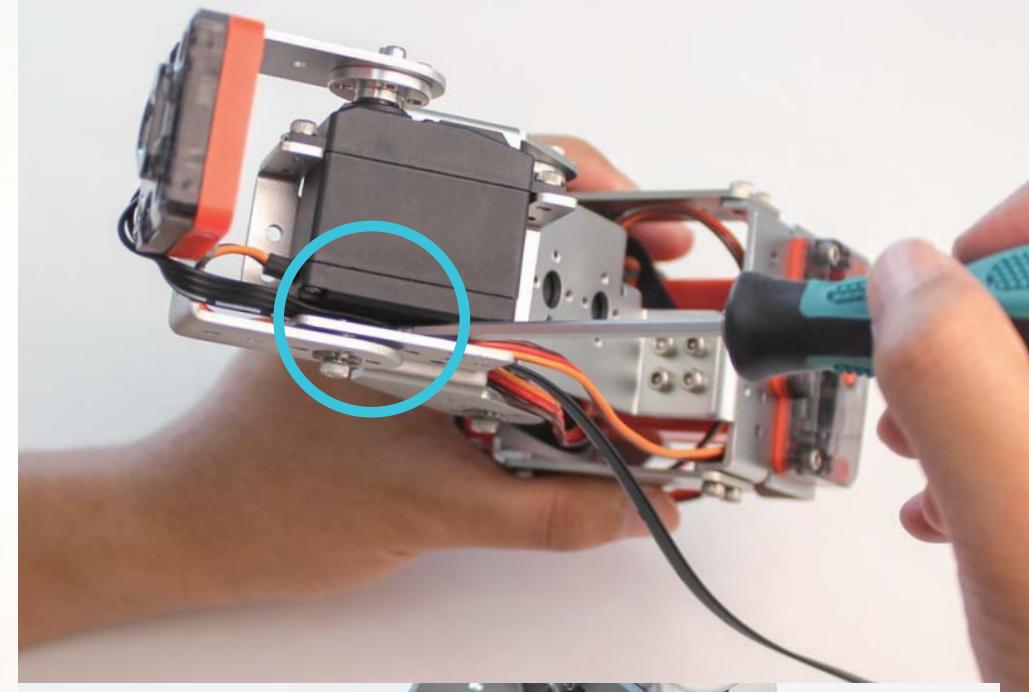
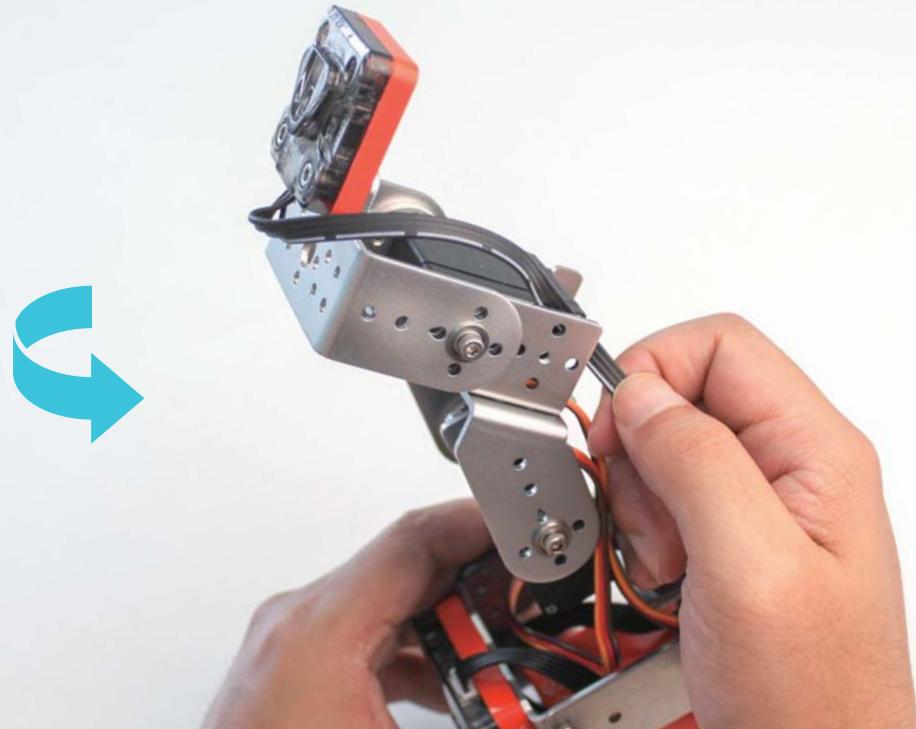


14



X2



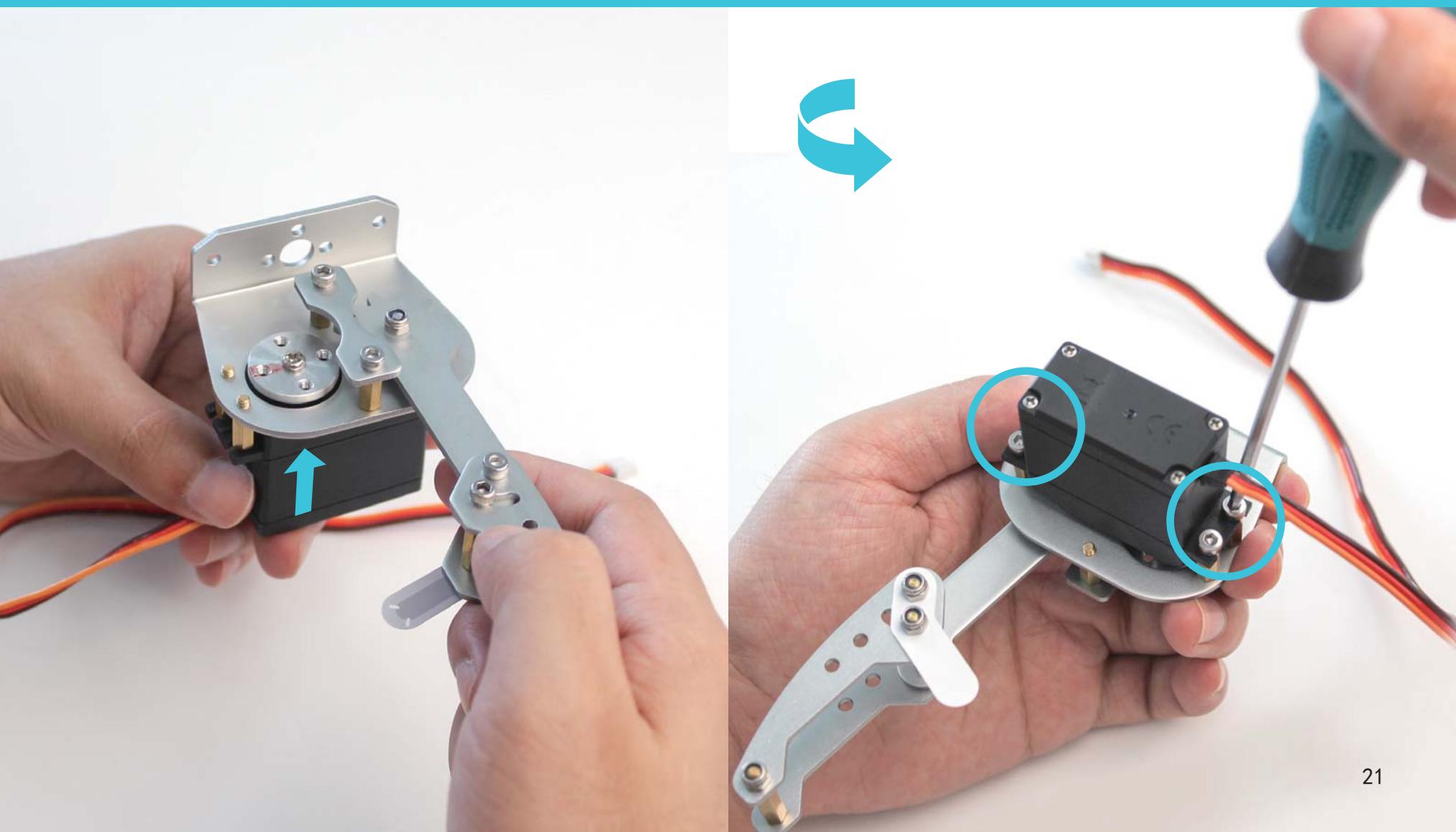


15



M3X4  
x4

x4

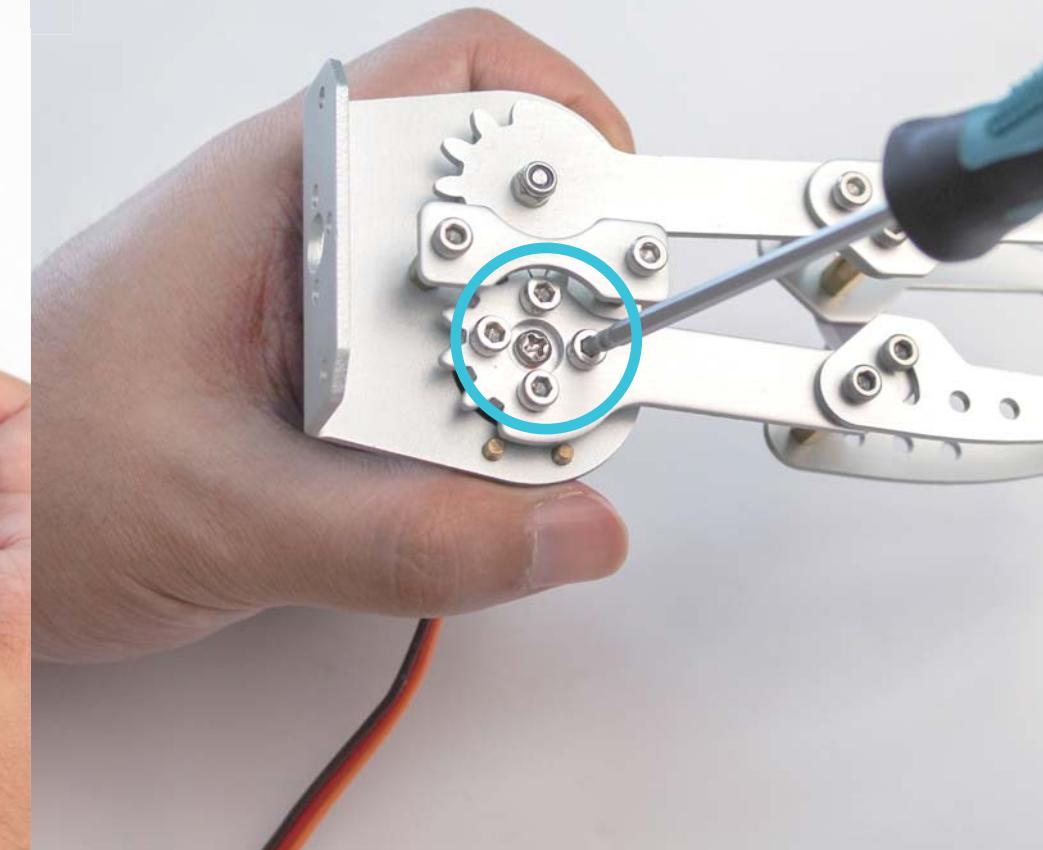
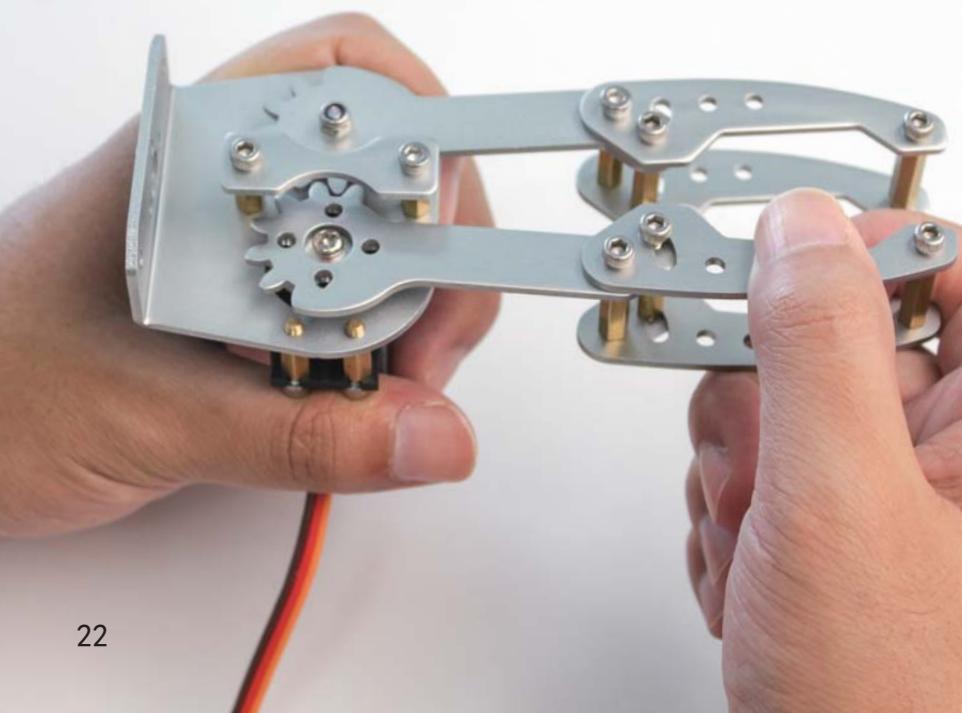


16



M3X4  
X4

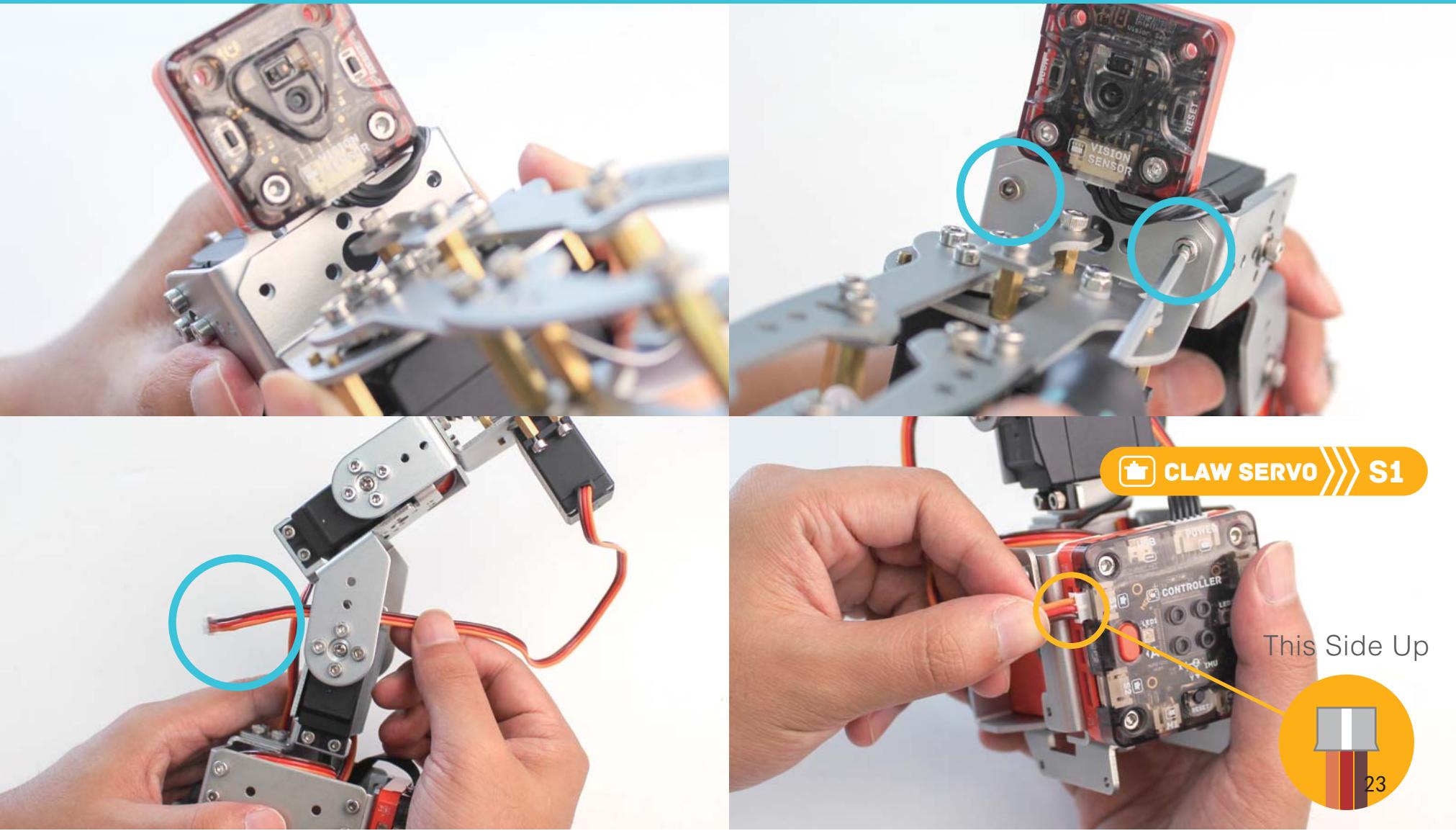
X4



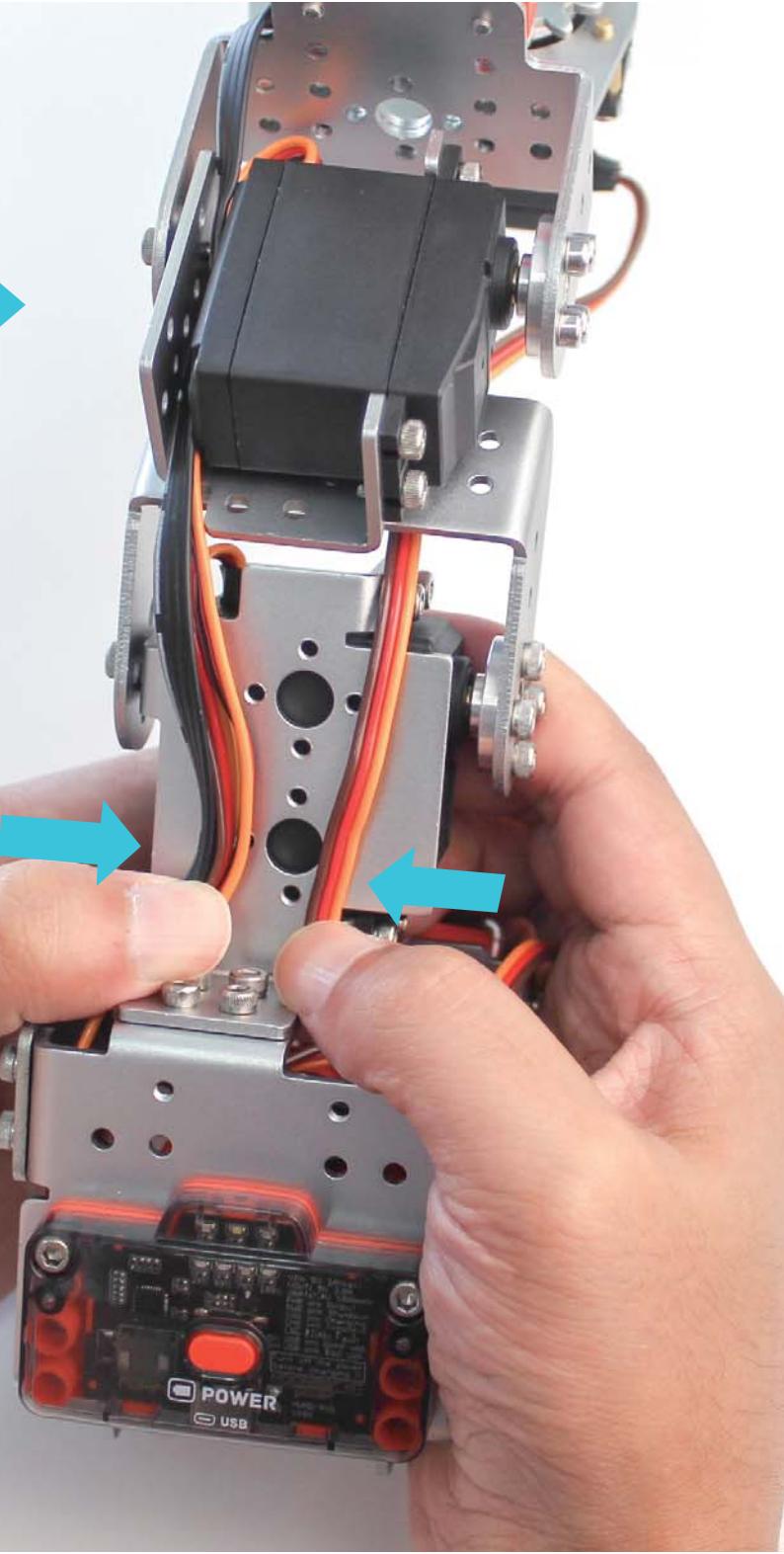
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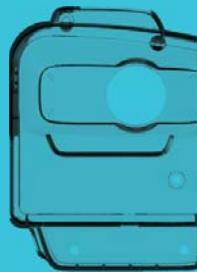
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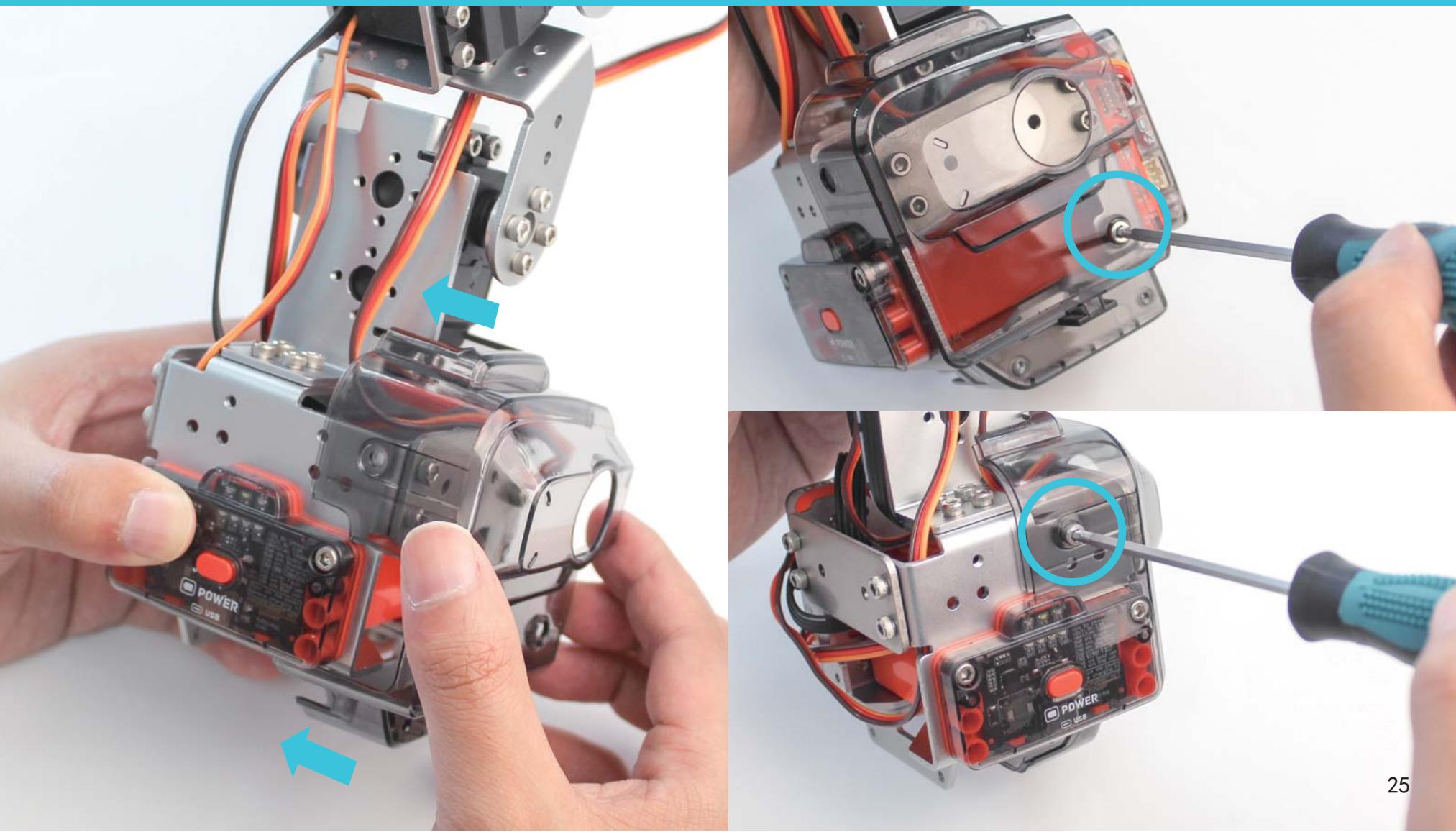


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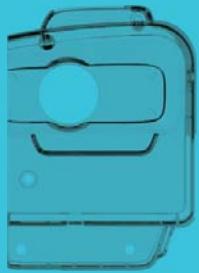


M3X4

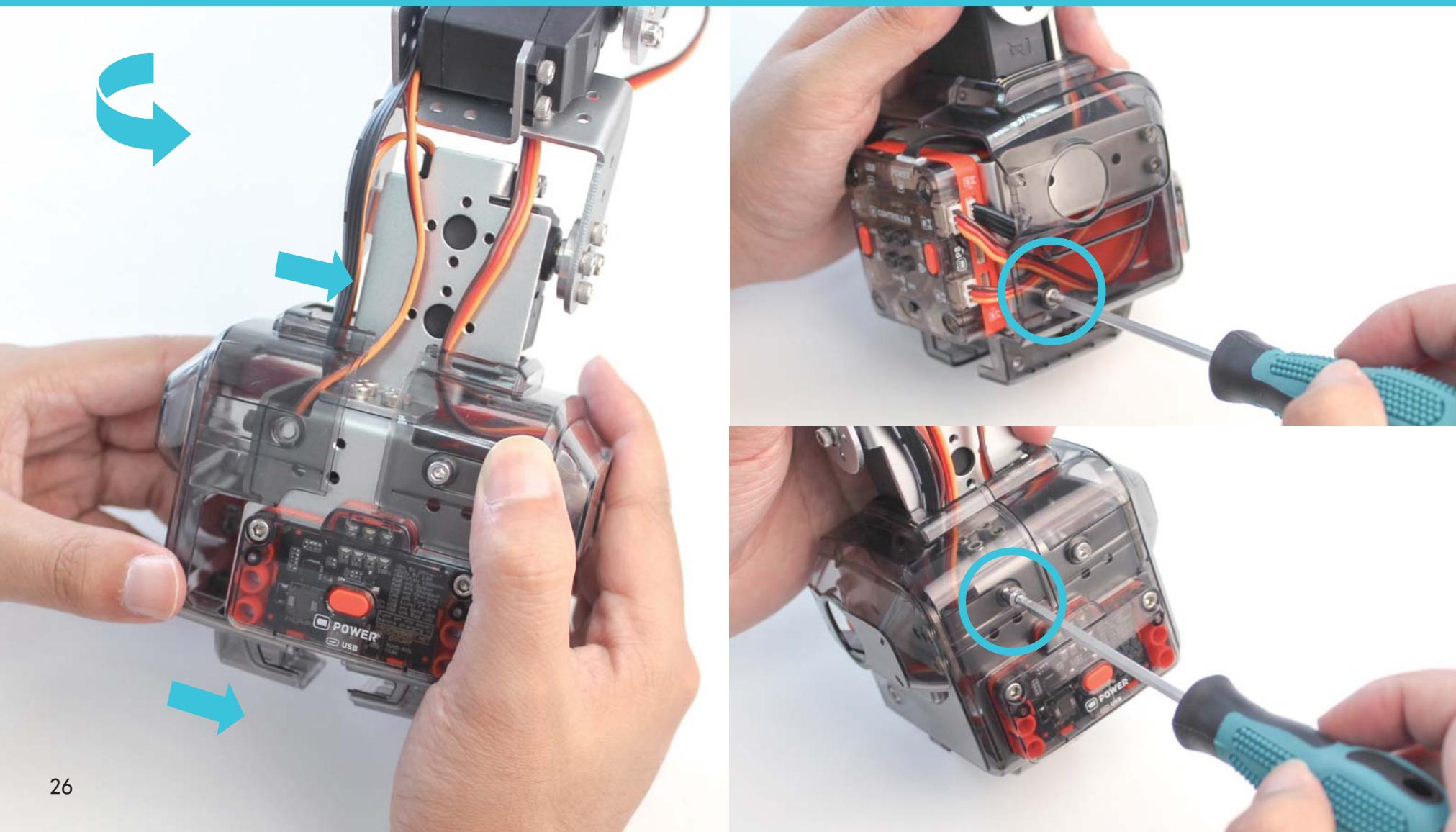
X2



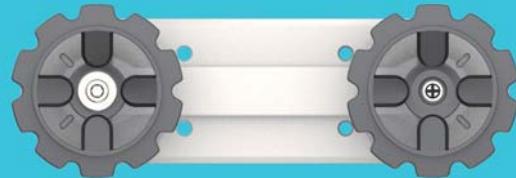
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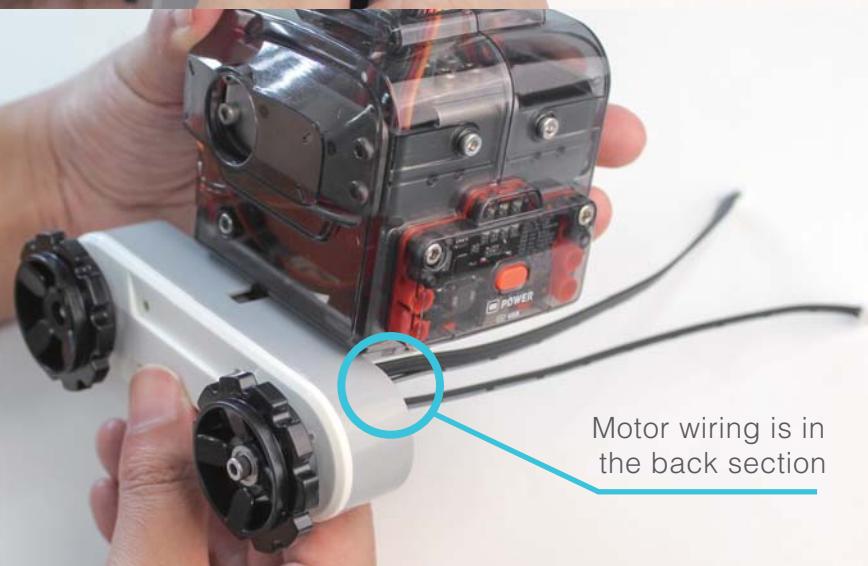
M3X4  
X2



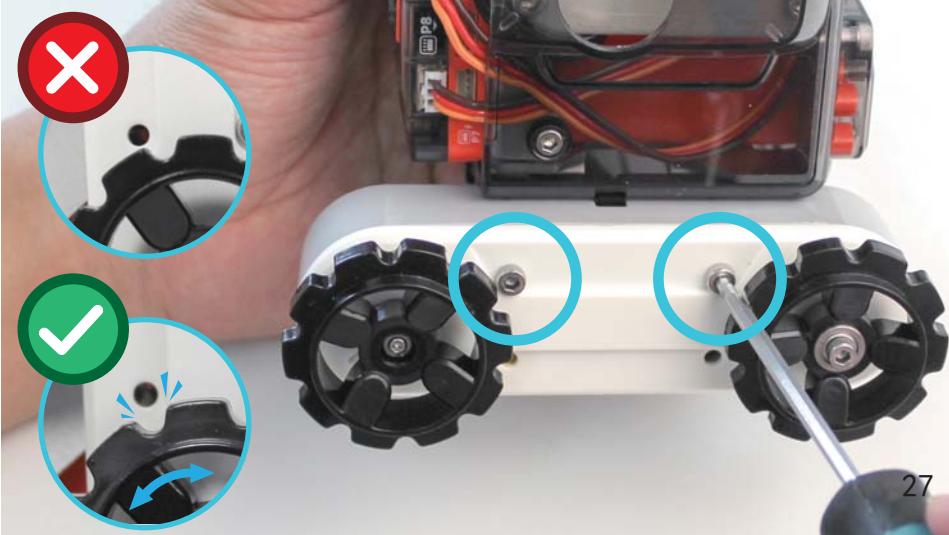
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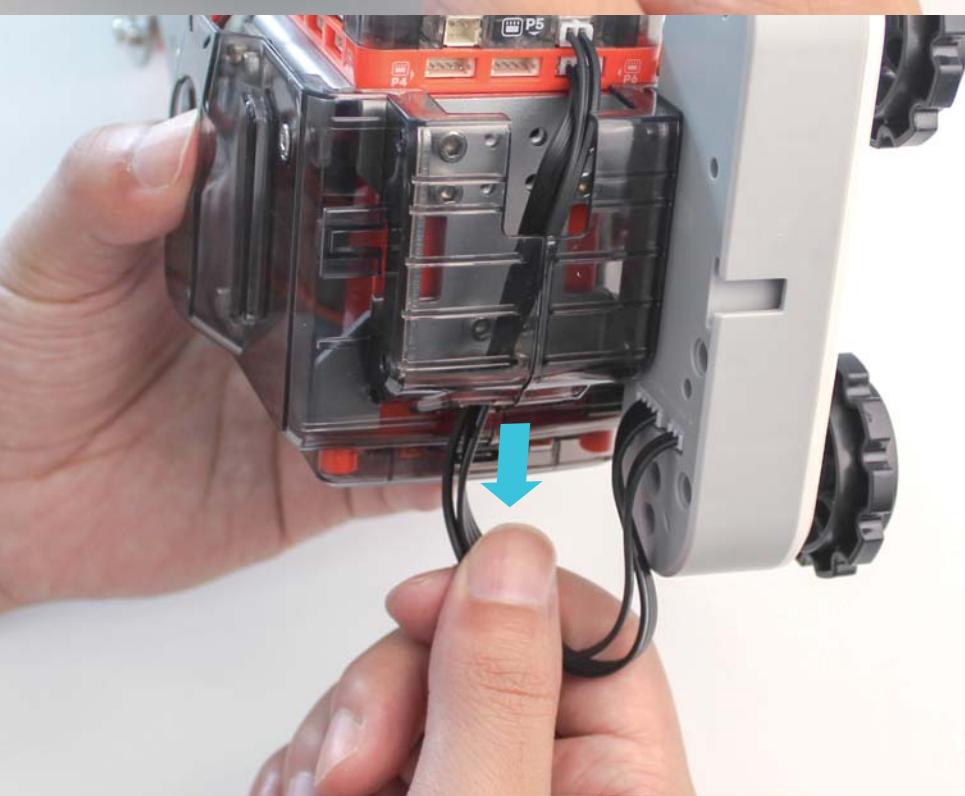
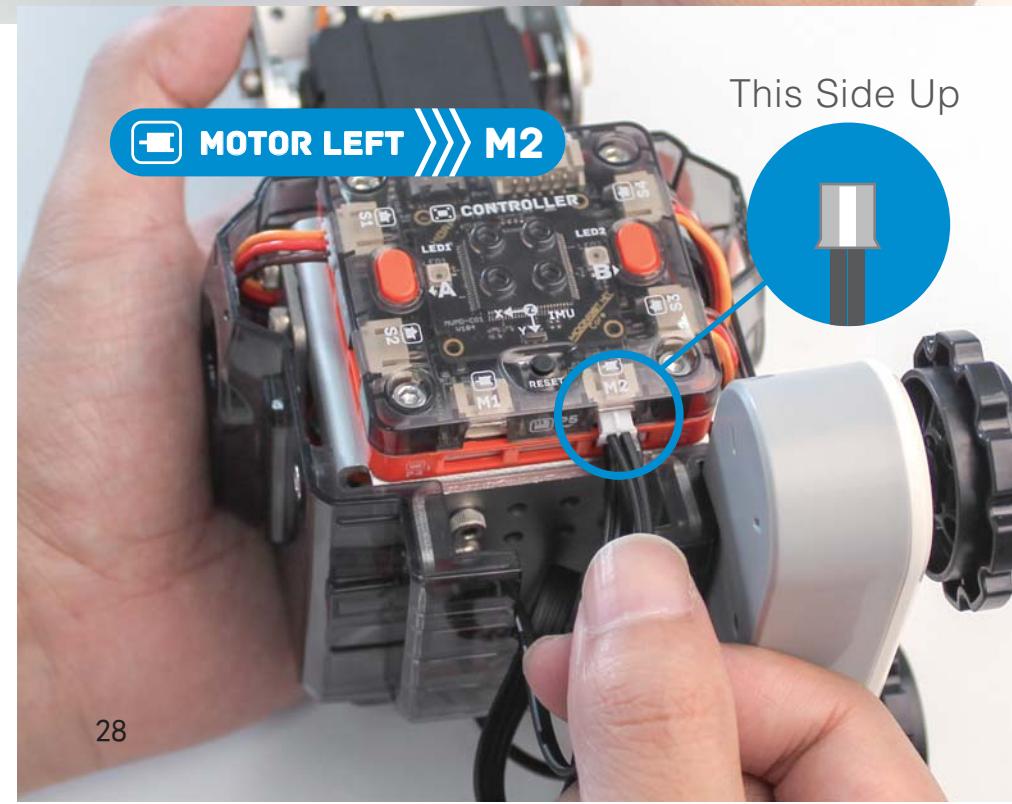
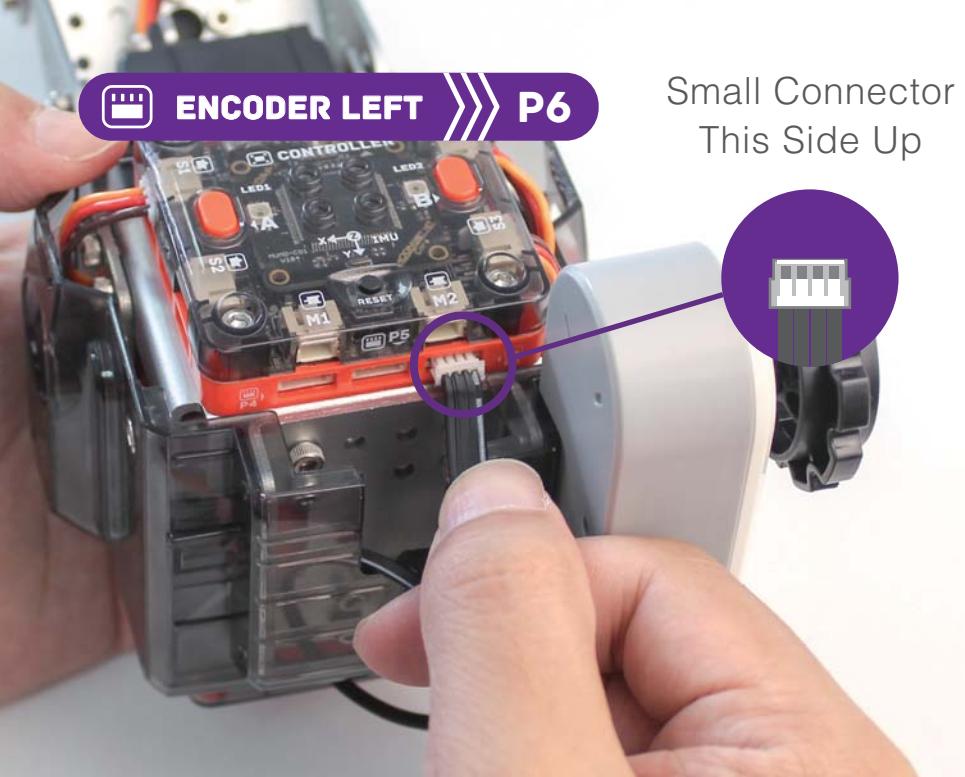
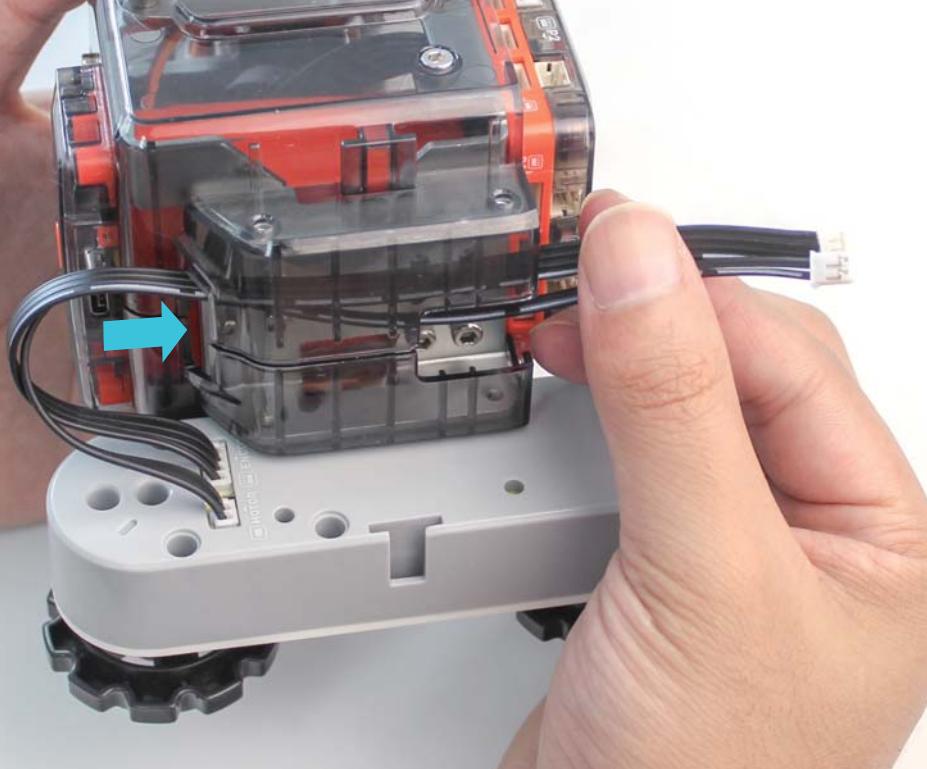


X2

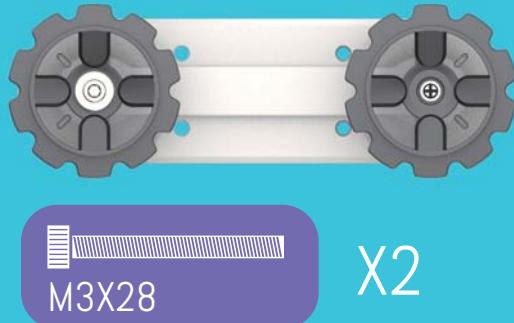


Motor wiring is in  
the back section



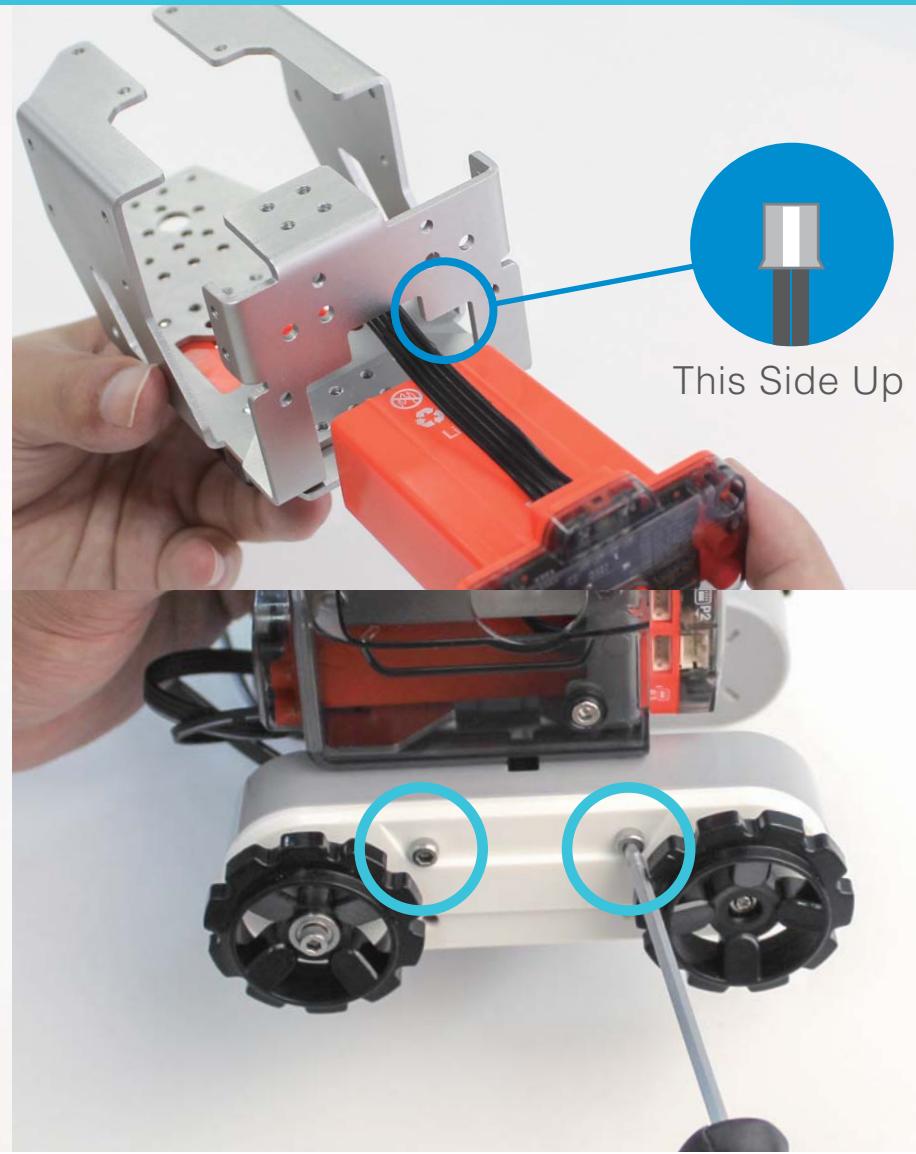
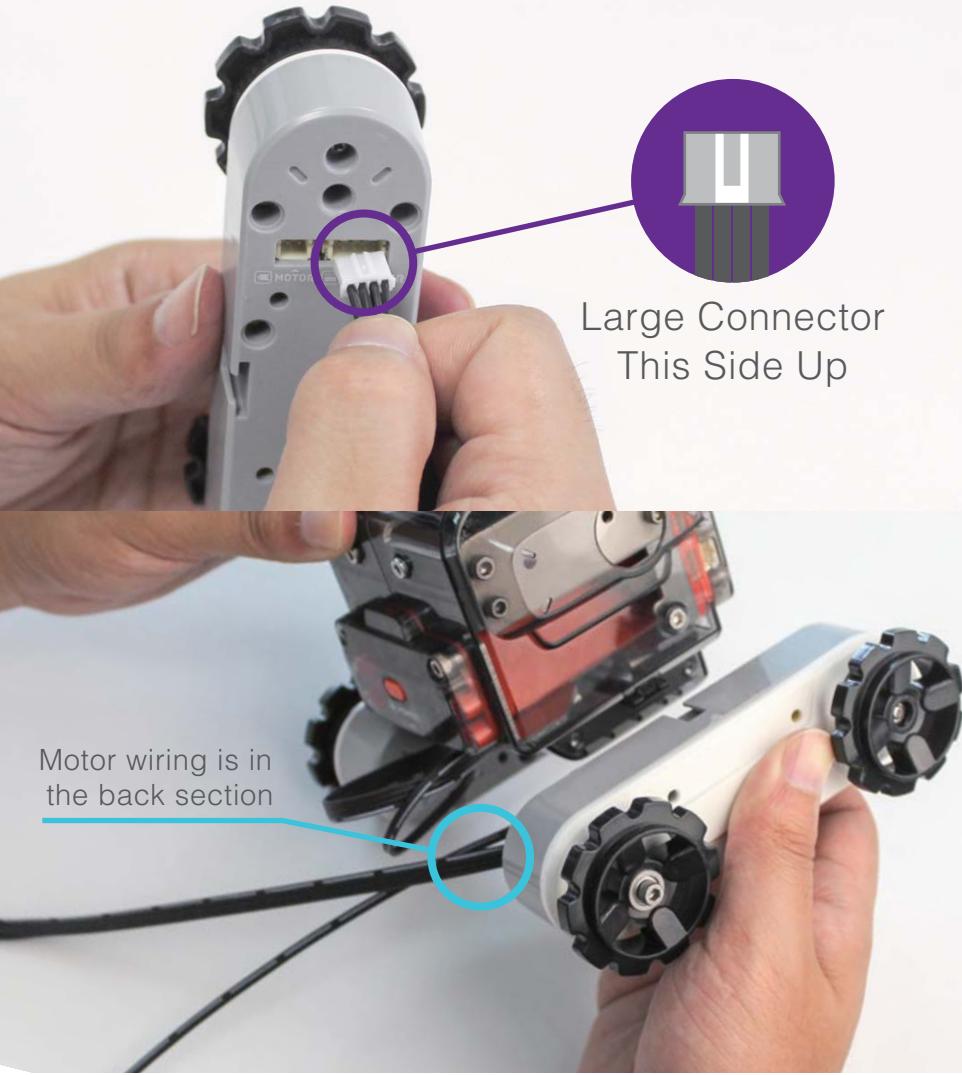


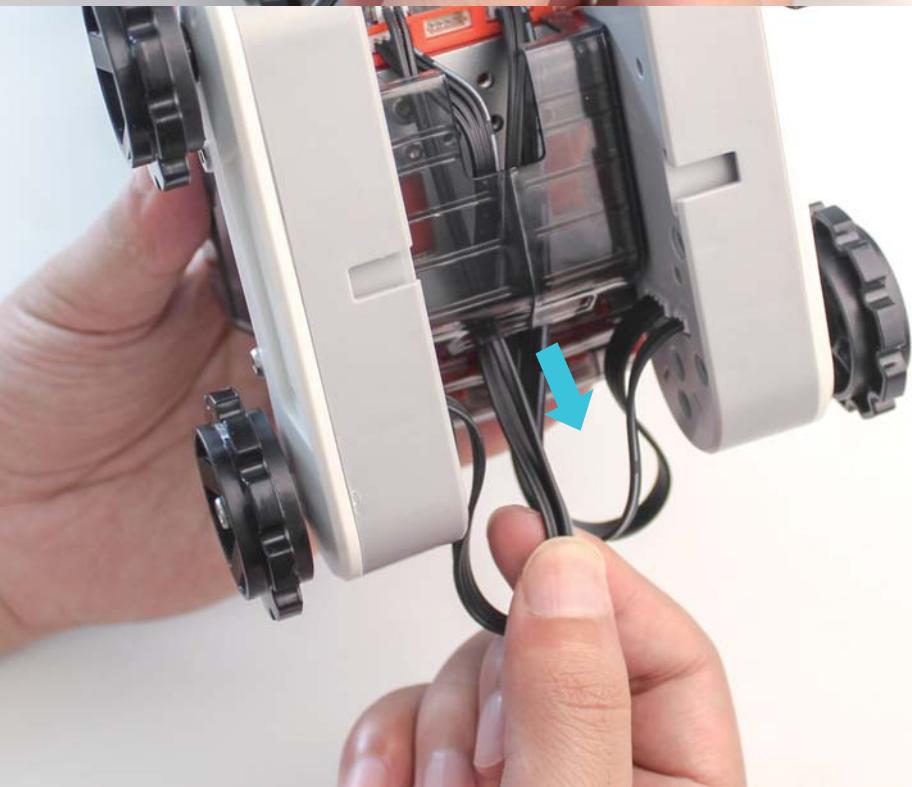
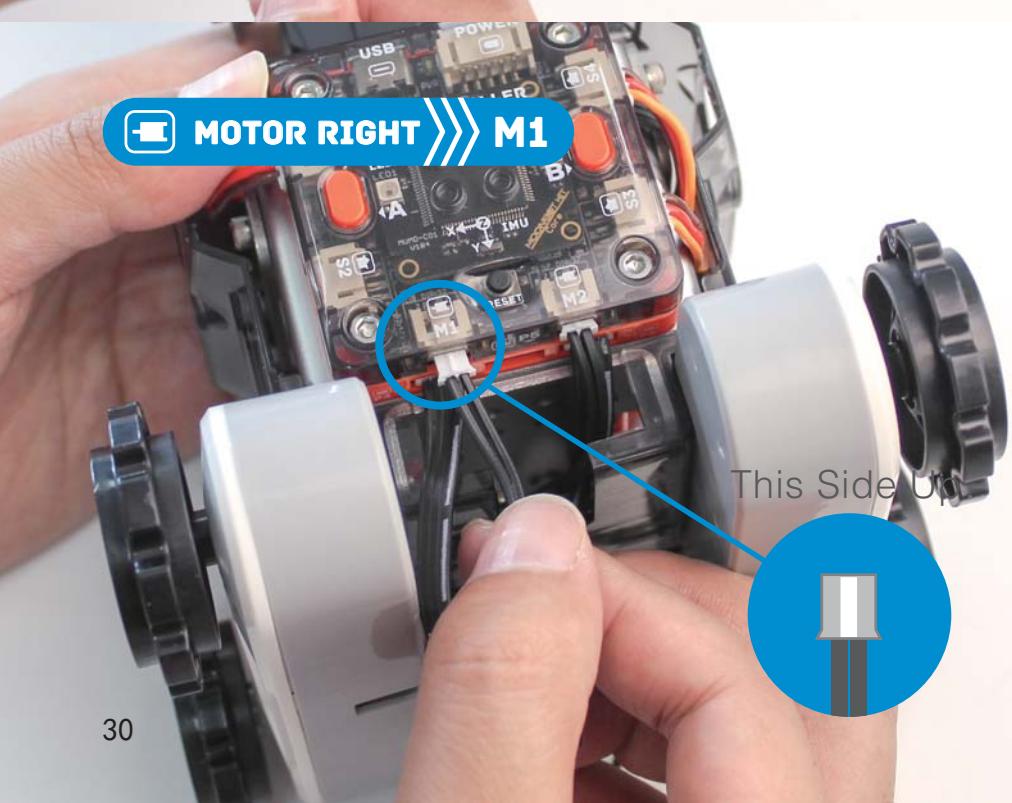
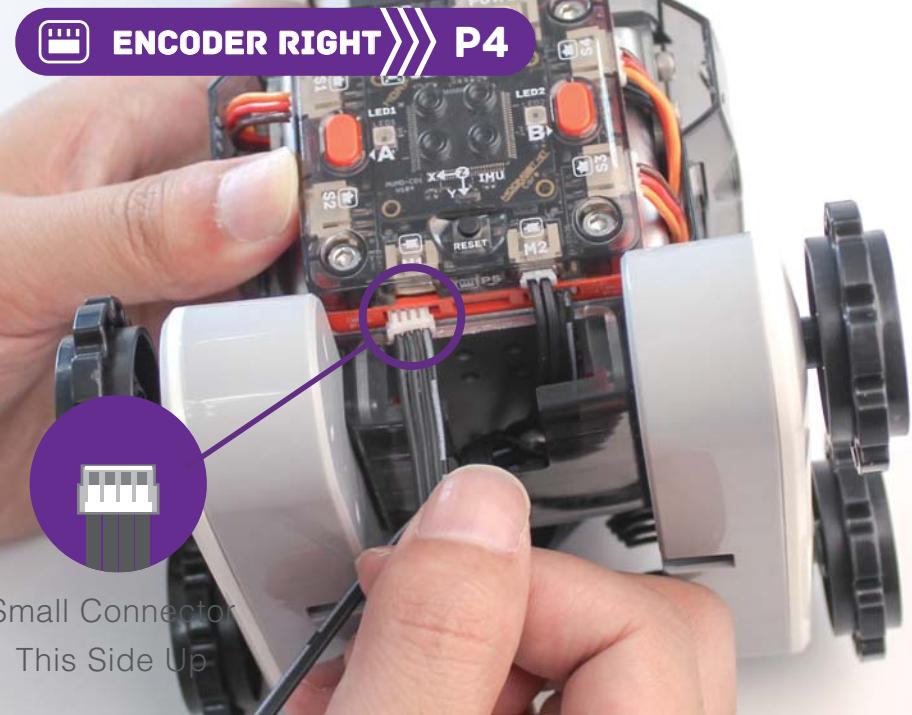
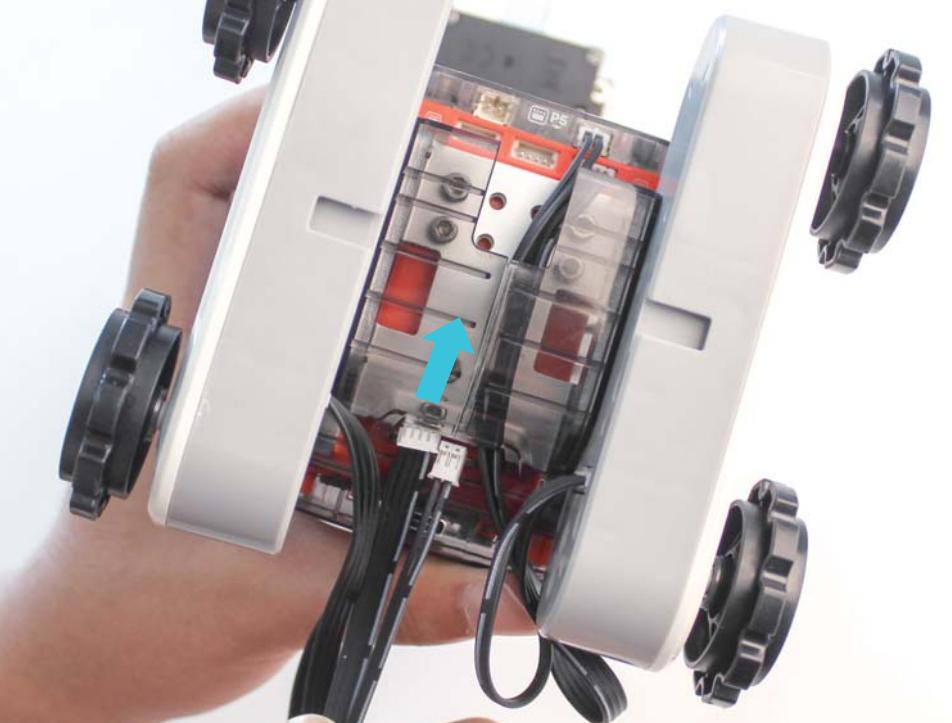
# 22



= 2PIN ↗ 18CM

= 4PIN ↗ 18CM





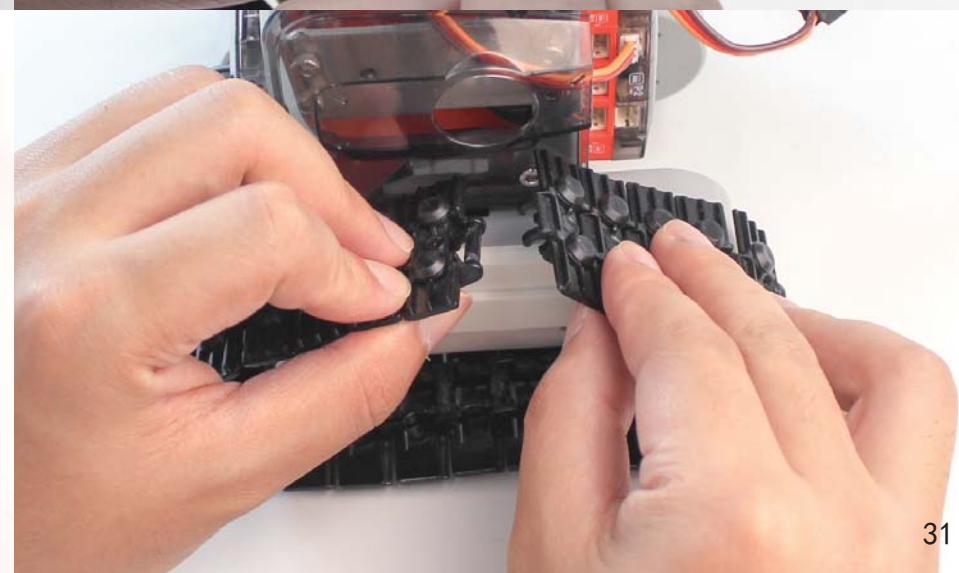
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X23



X46



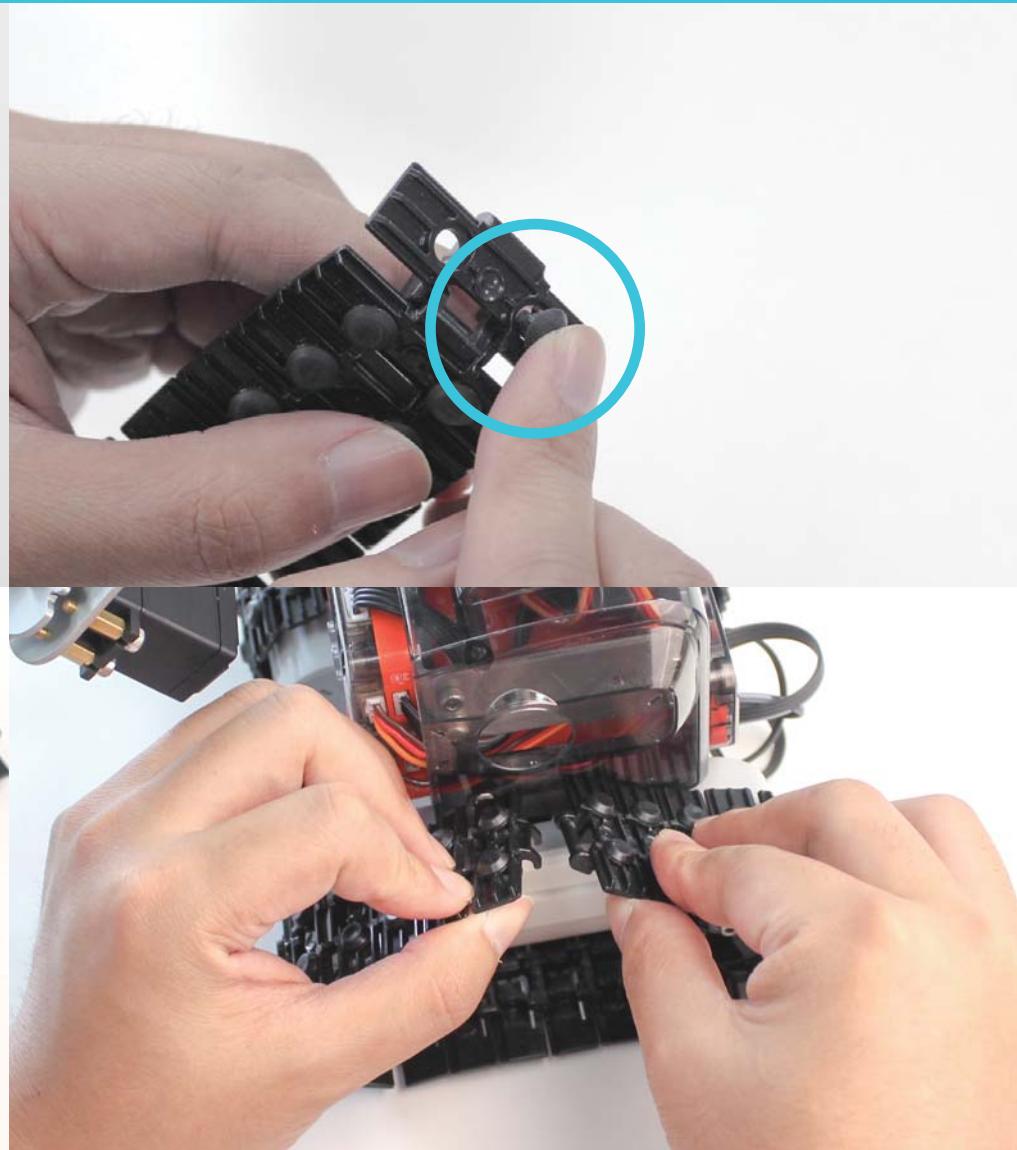
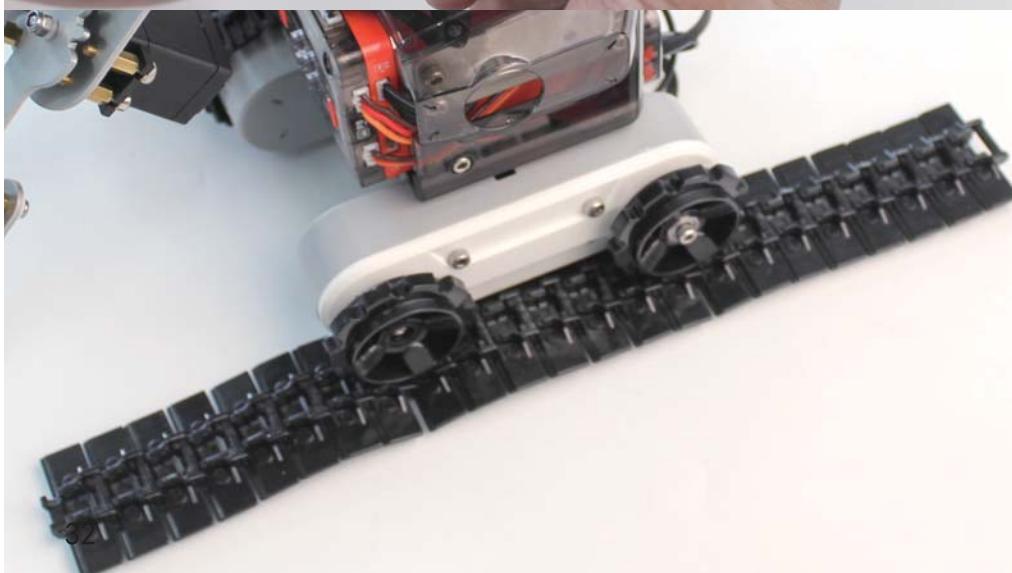
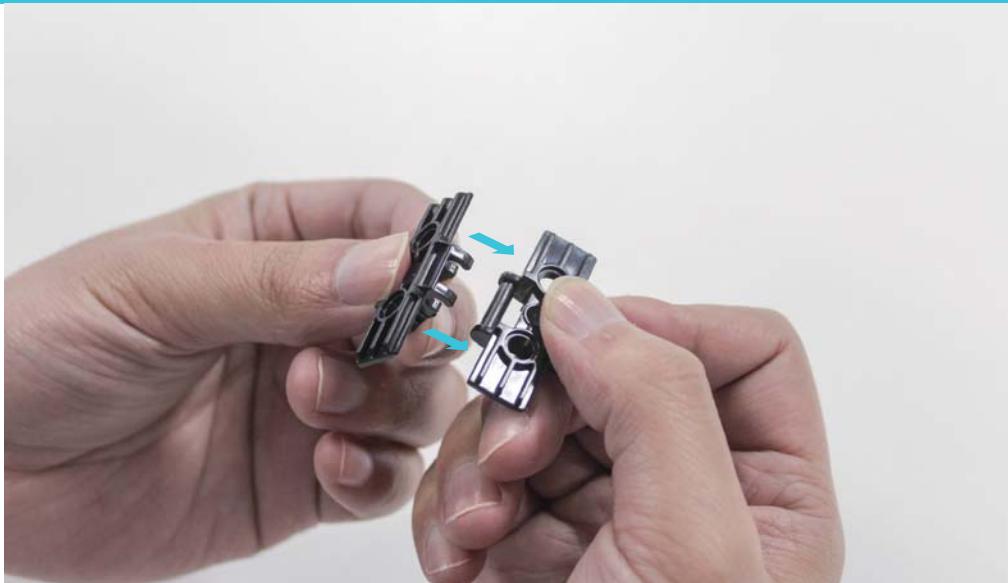
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X23



X46



# 25

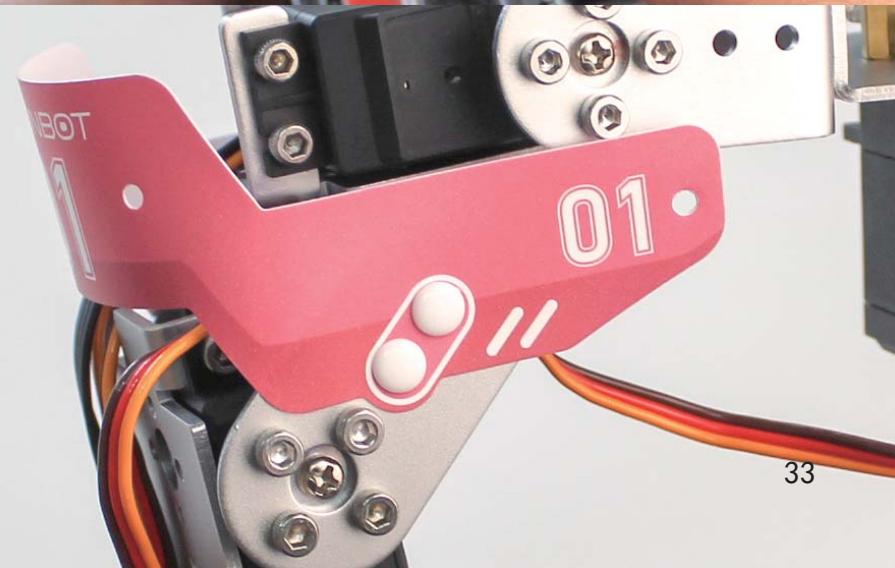
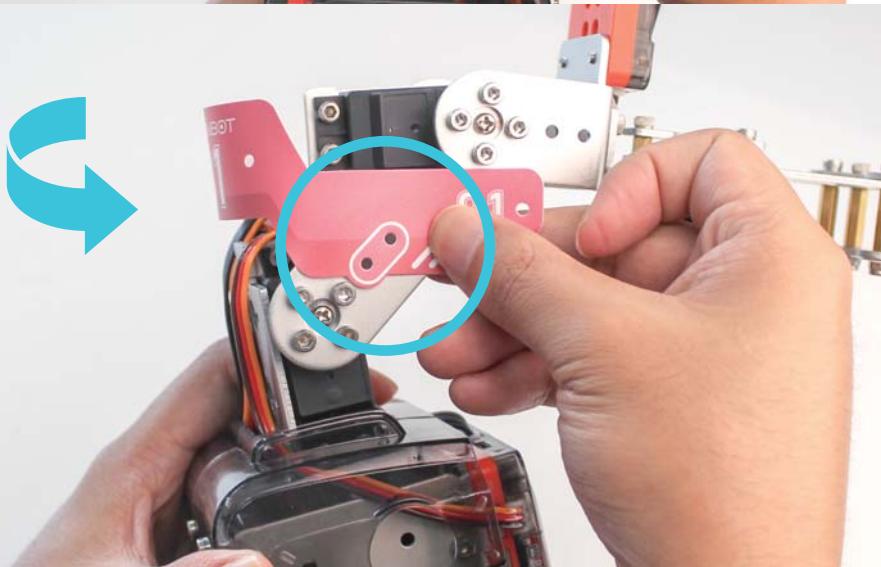
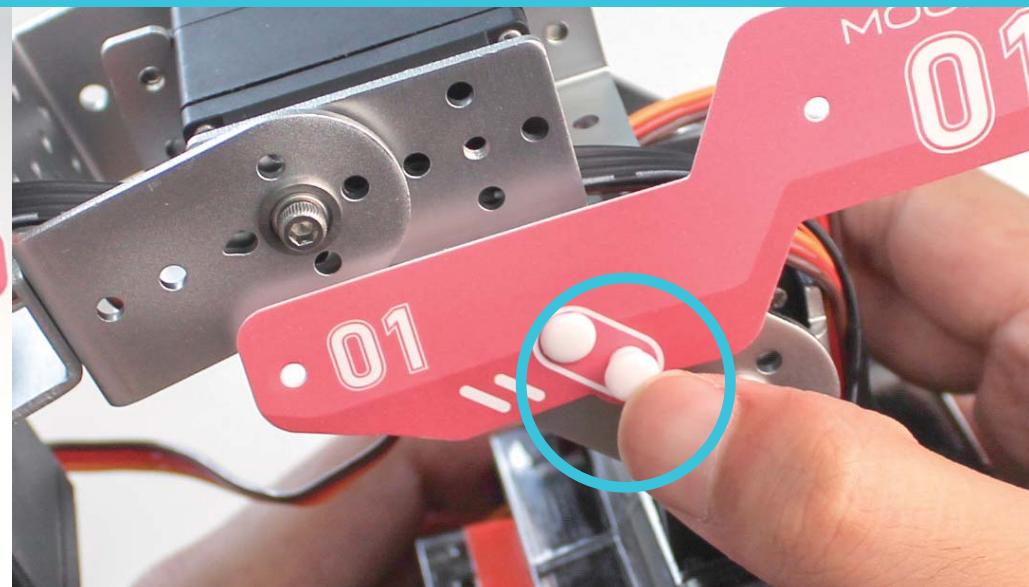
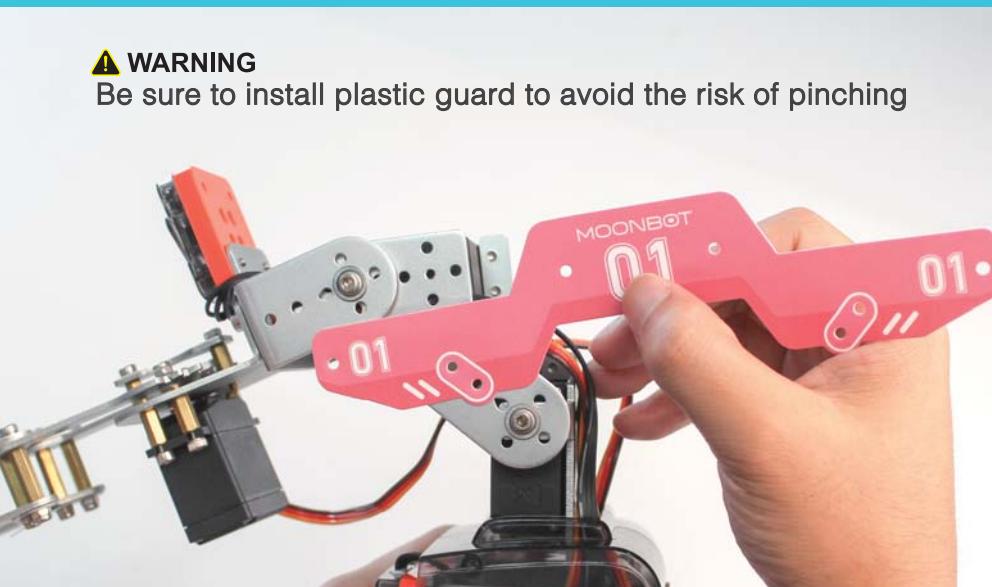


X4

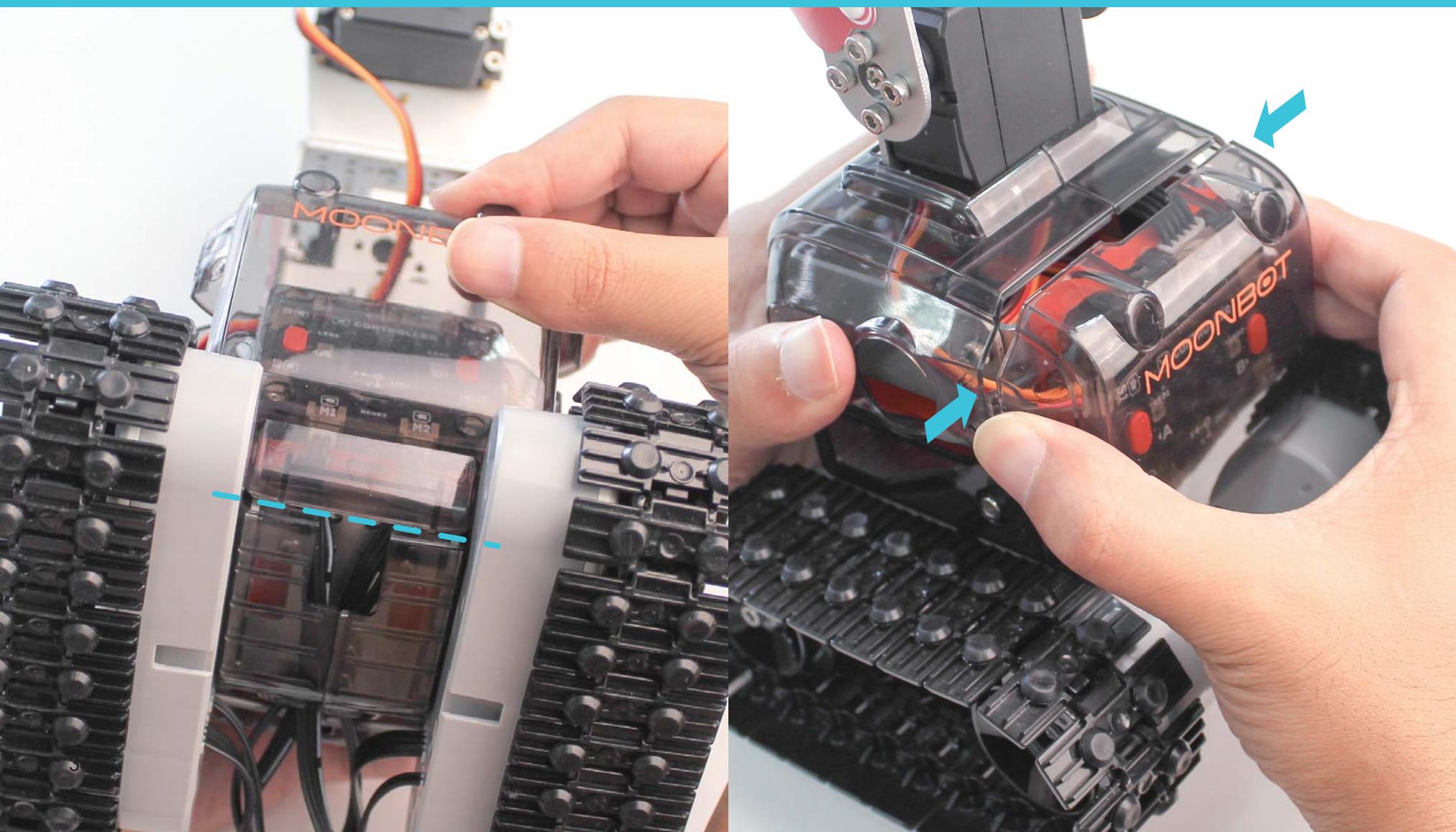
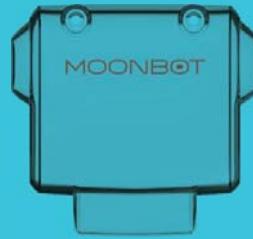


**WARNING**

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

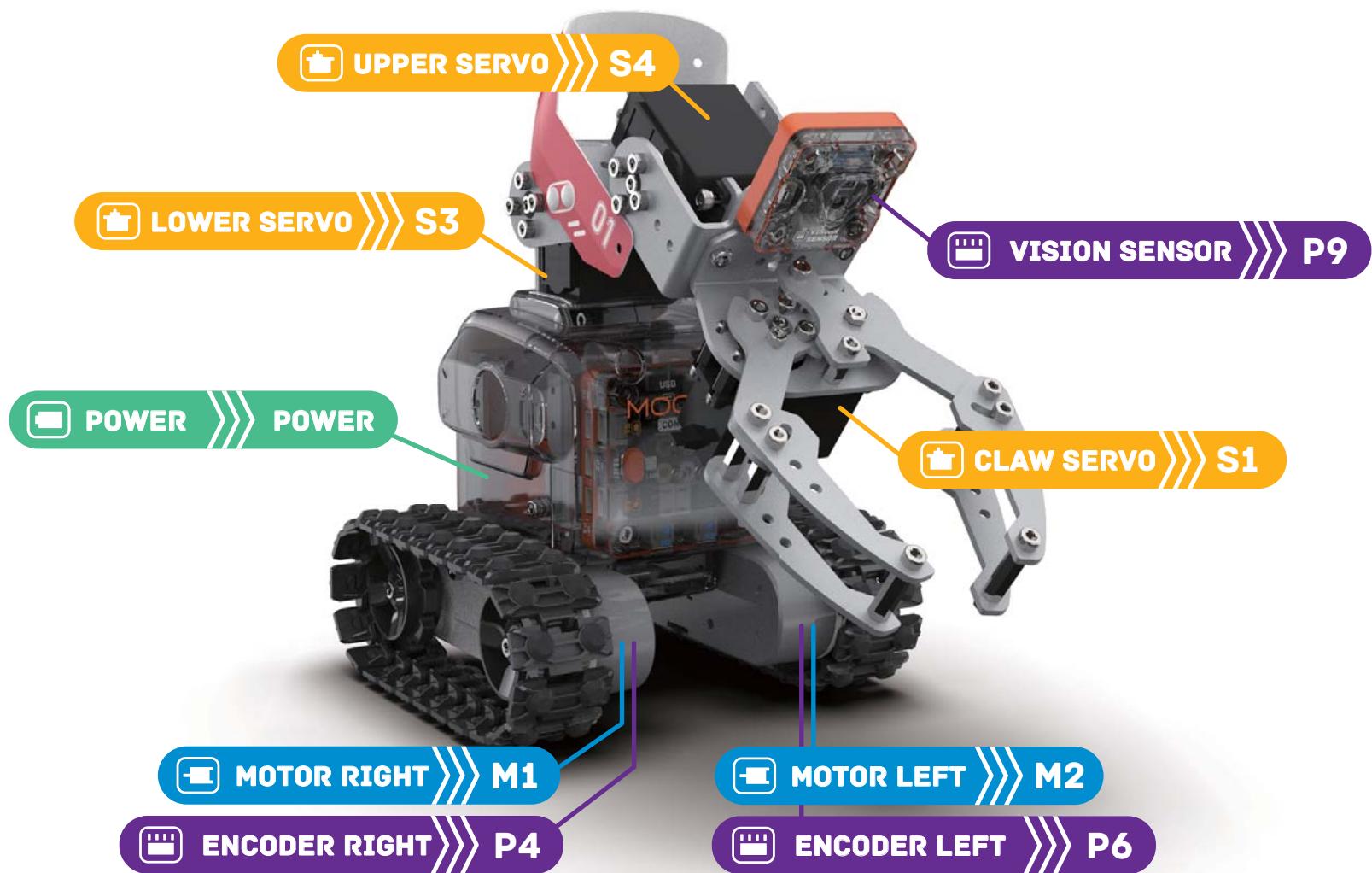


26



# CHECK CONNECTIONS

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



# QUICK PLAY

- ① Press power button



- ② Press Controller button A, LED lights is bright blue



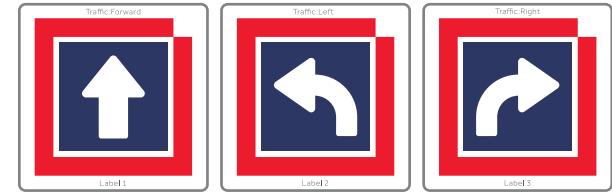
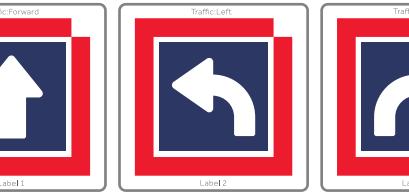
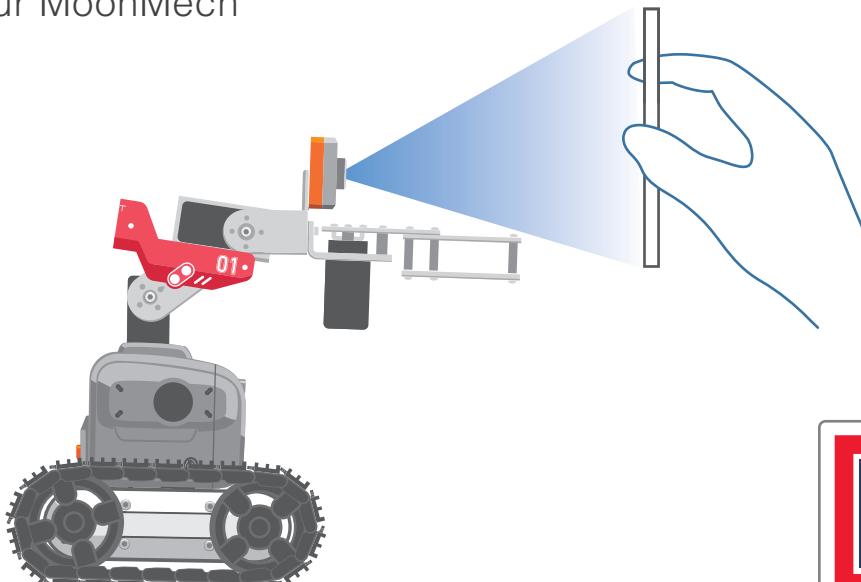
- ③ Use these vision cards to control your MoonMech



Flashing blue light  
Target detected



Flashing red light  
No target detected

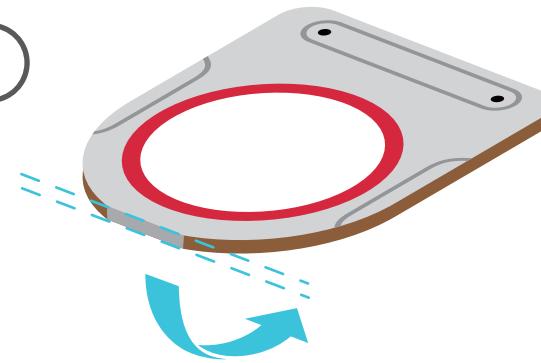


# BUILD A BASKETBALL HOOP

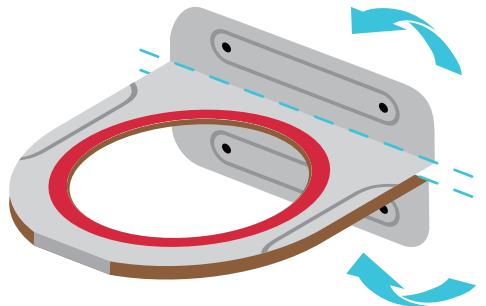
1



2



3

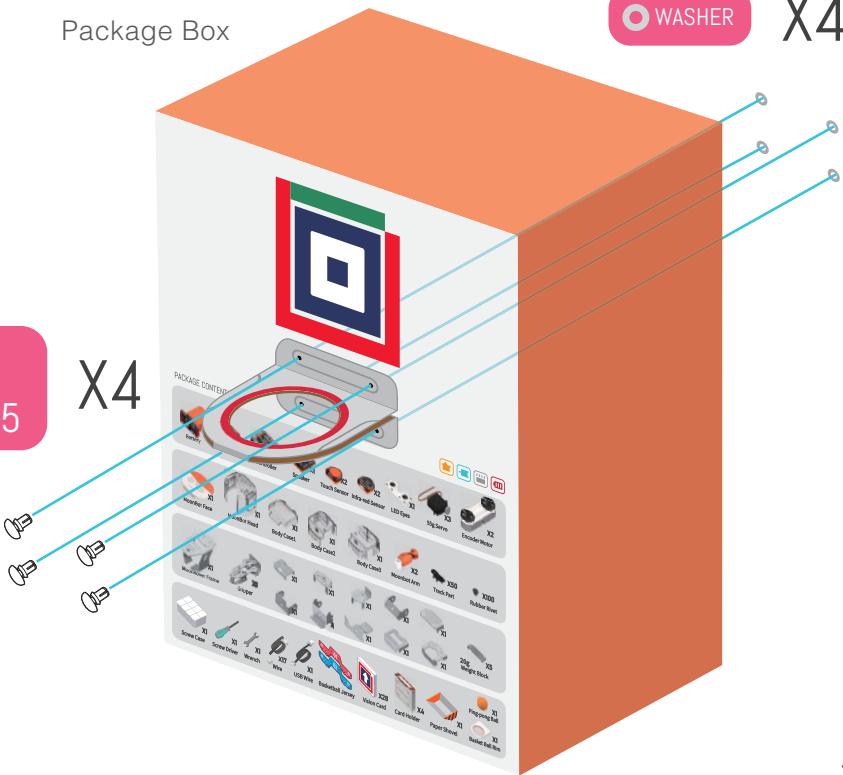


4



Package Box

WASHER X4



# REMOTE CONTROLLED BASKETBALL PLAYING

- ① Press power button



- ② Start MU Bot APP & Connect

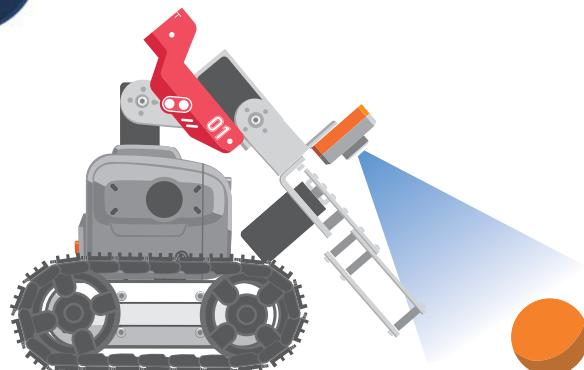


MoonBot

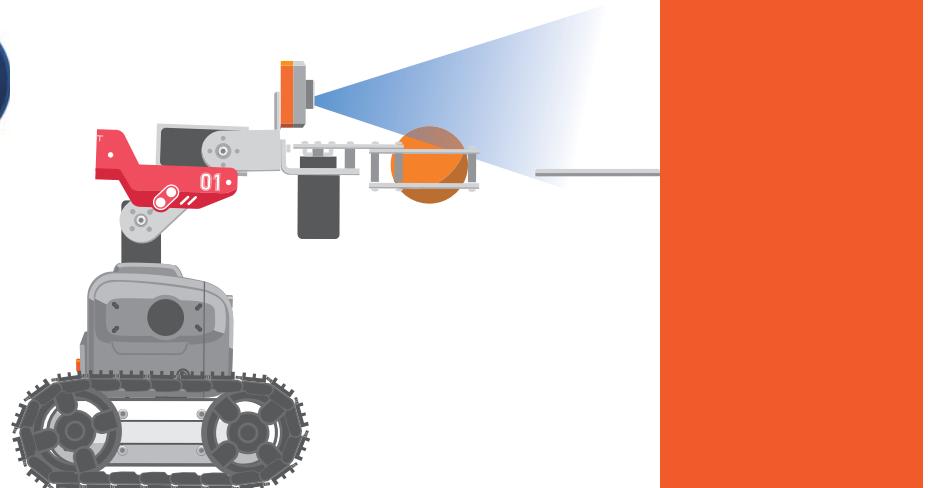
Remote control

MoonMech

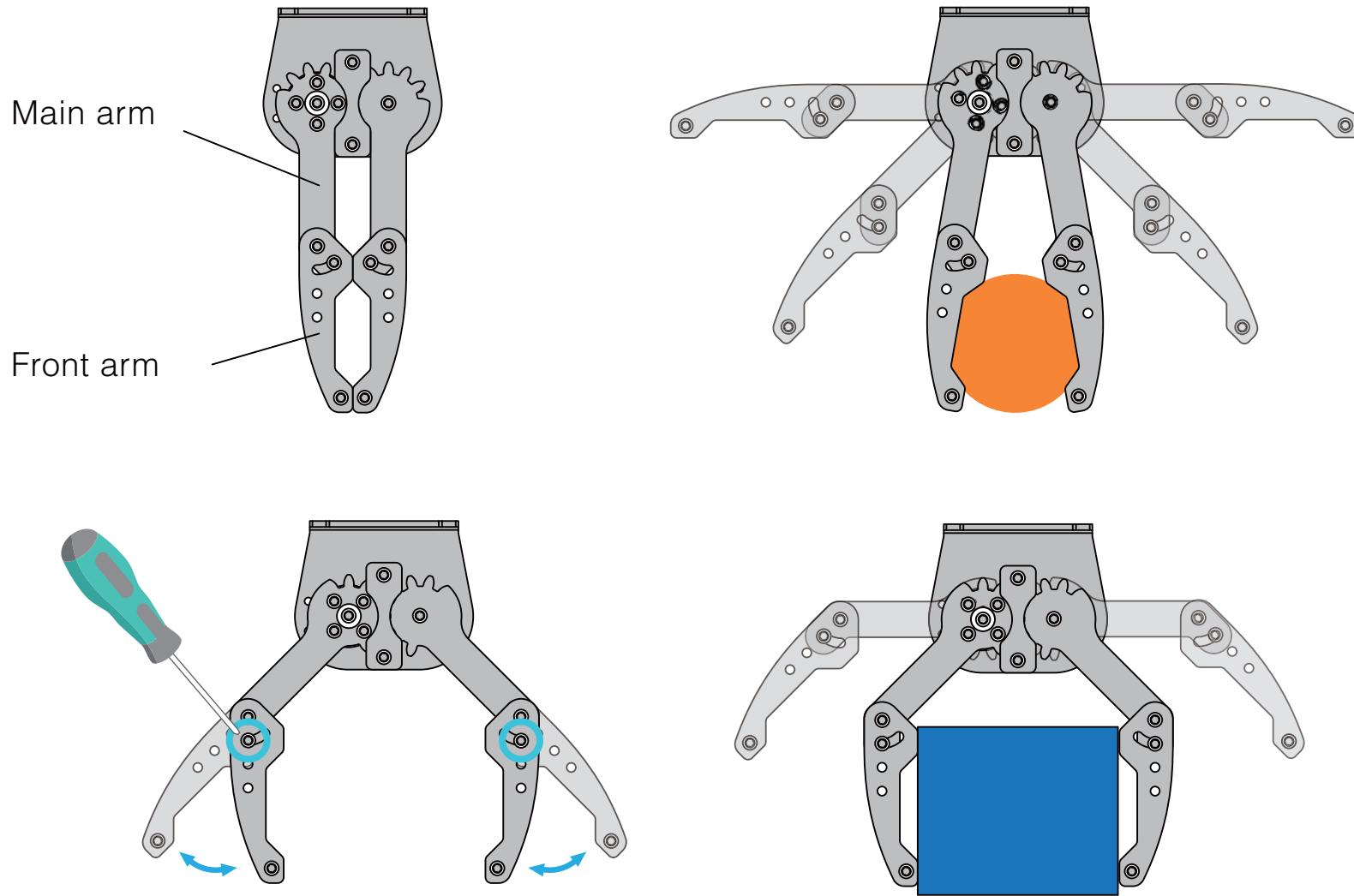
- ③ Place the Ball in front of your MoonMech.



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



# ADJUST GRIPPER



Loosen the two screws and two nuts, adjust the front arm to the angle you want, then tighten it

# DISCOVER MORE

[wiki.morpx.com](http://wiki.morpx.com)



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