

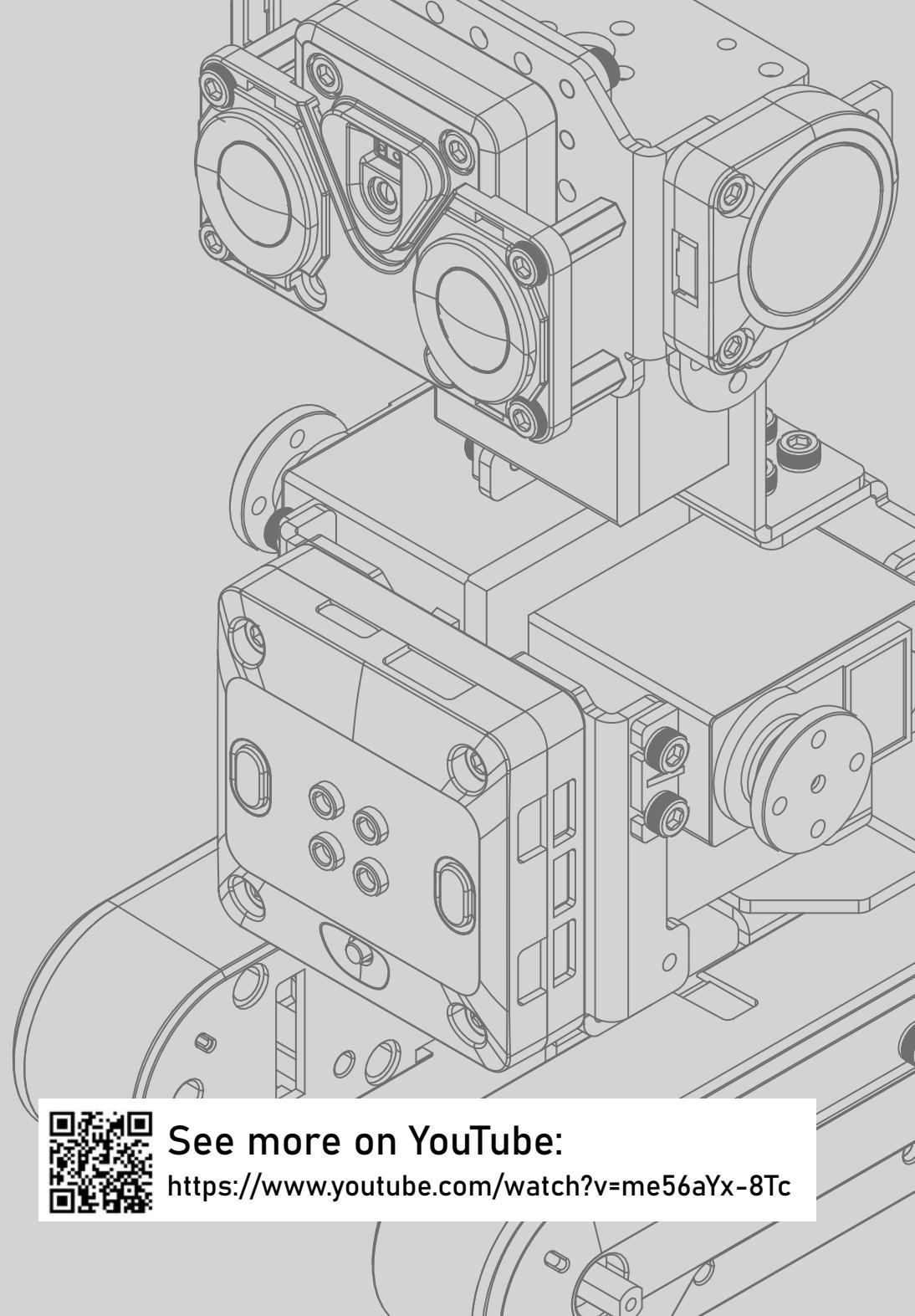
MoonBot Manual

248

Pieces

2.5h

Estimated
Build Time



See more on YouTube:

<https://www.youtube.com/watch?v=me56aYx-8Tc>

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)

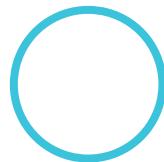
1. Do not disassemble the lithium battery module to avoid dropping, impacting or squeezing the lithium battery. Avoid using it in humid, low temperature (below 0 degree) and high temperature (above 50 degree). Keep away from fire and do not soak. ;
2. The charging process is a non-linear process. The 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.

SYMBOLS & LEGEND



Flip viewpoints



Caution

Screw Case

 M3X4	 M3X8	 M3X12	 COPPER COLUMN	 M3X28
 BEARING	 WASHER	 NUT	 R3035	 R3075

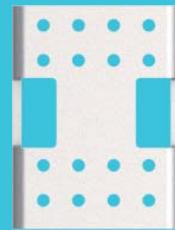
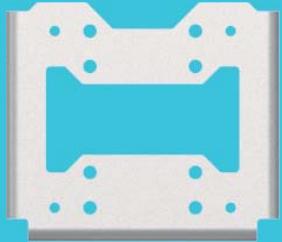


1:1

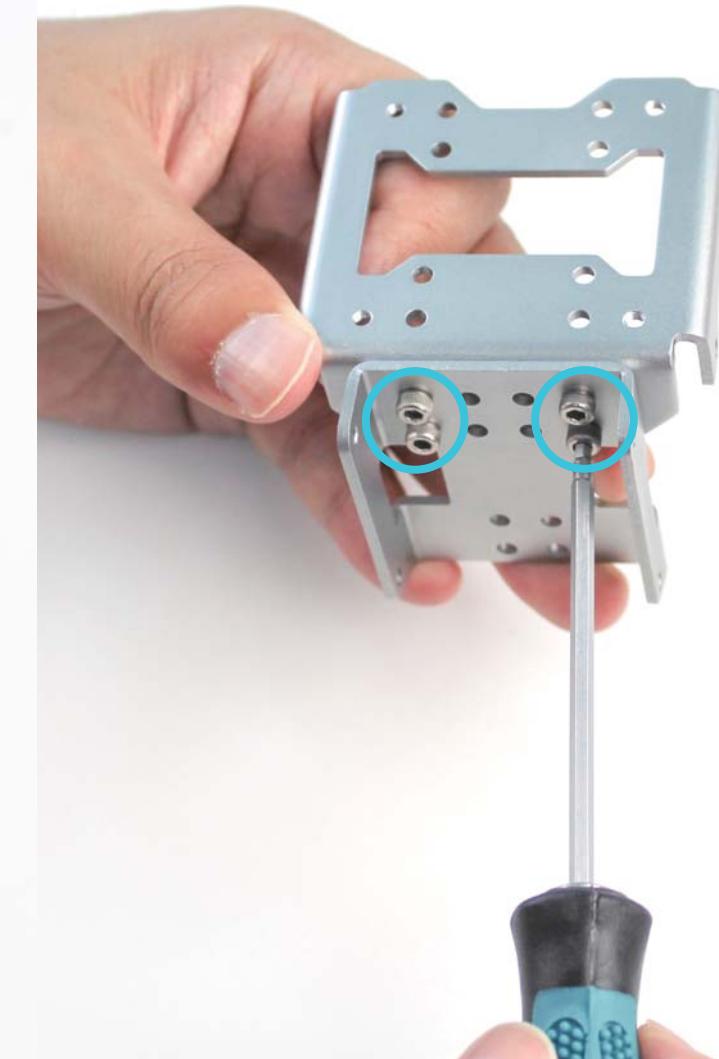
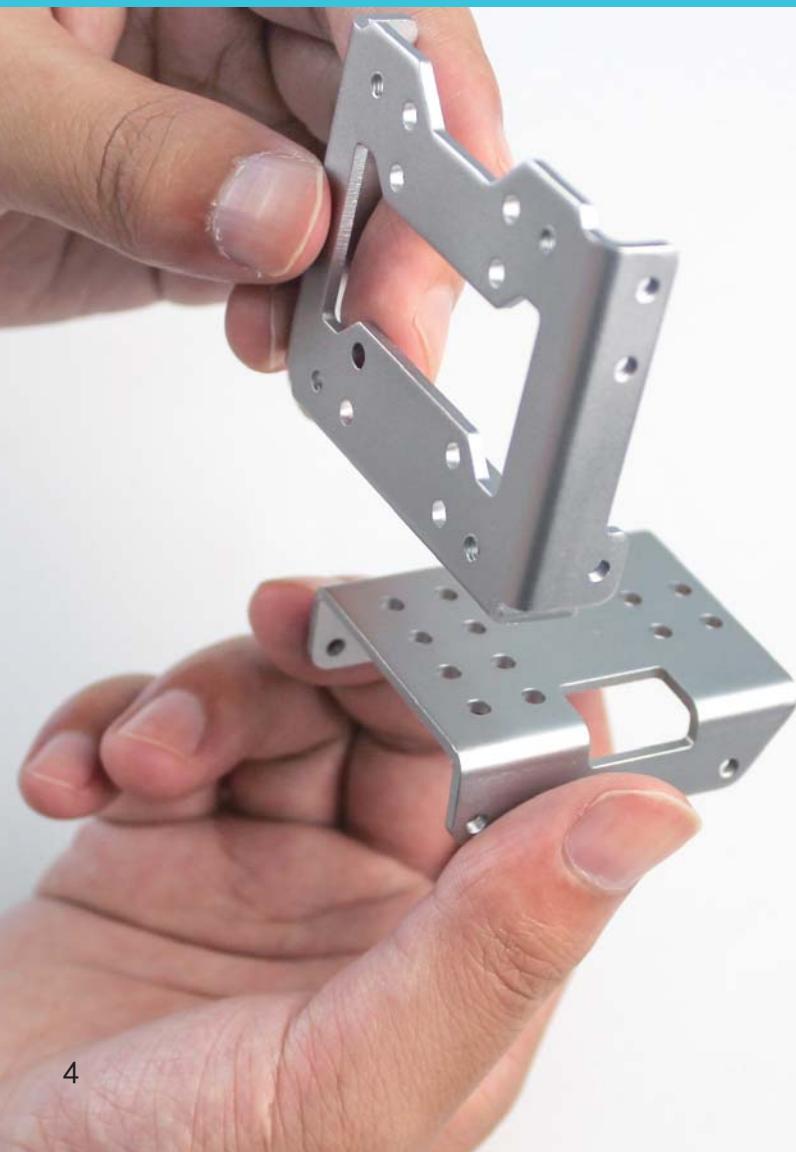


Please compare the length of the screw as shown in Figure 1:1.

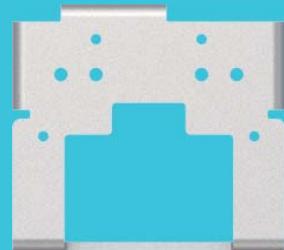
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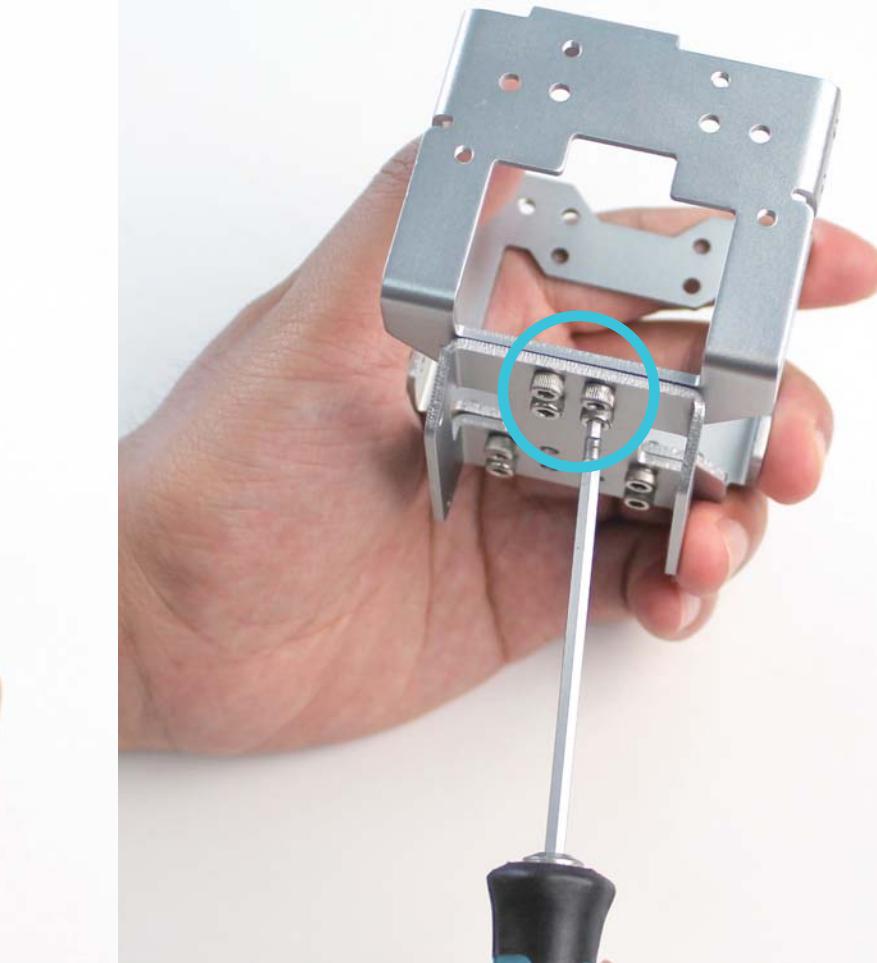
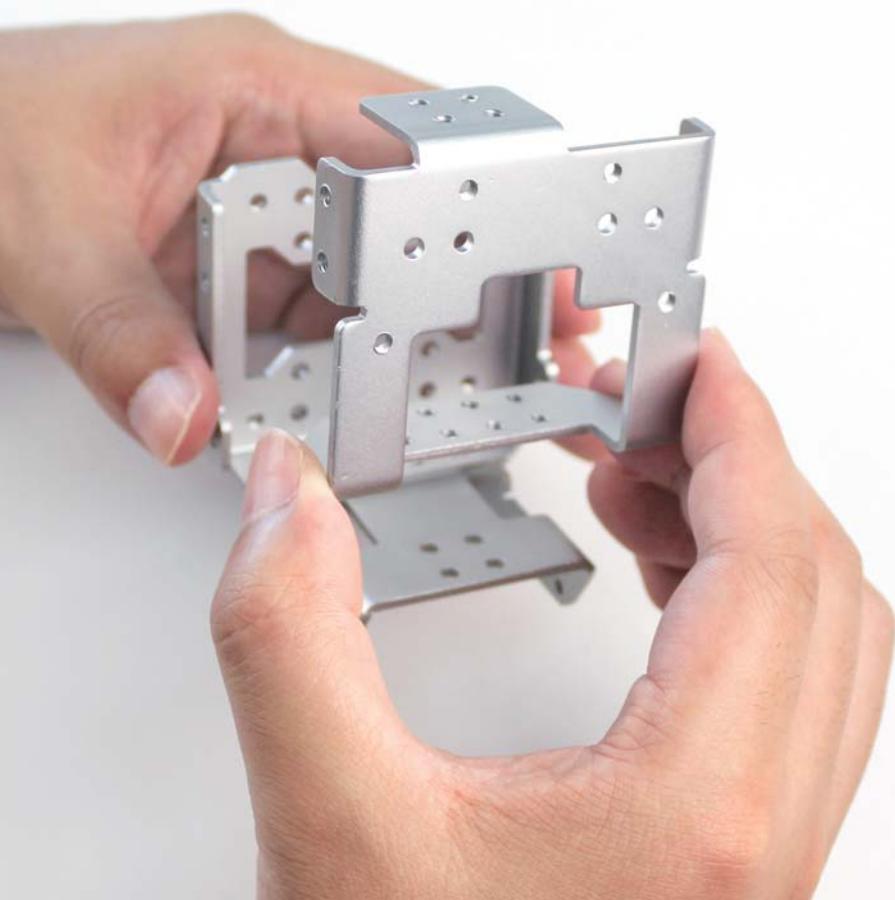
X4



2



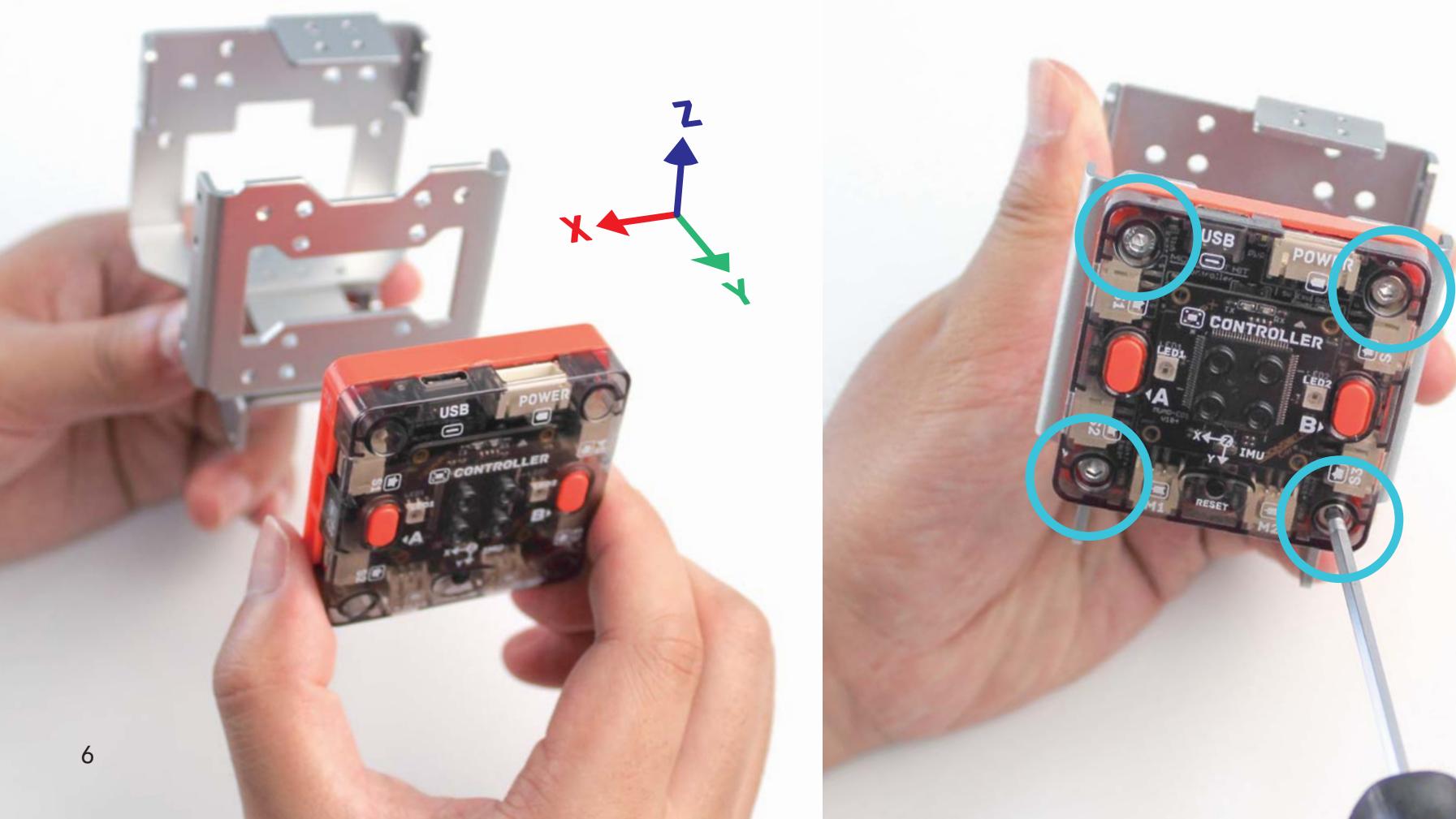
X4



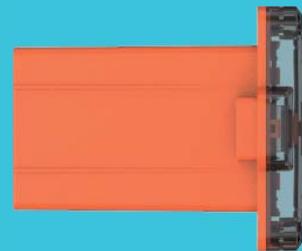
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X4



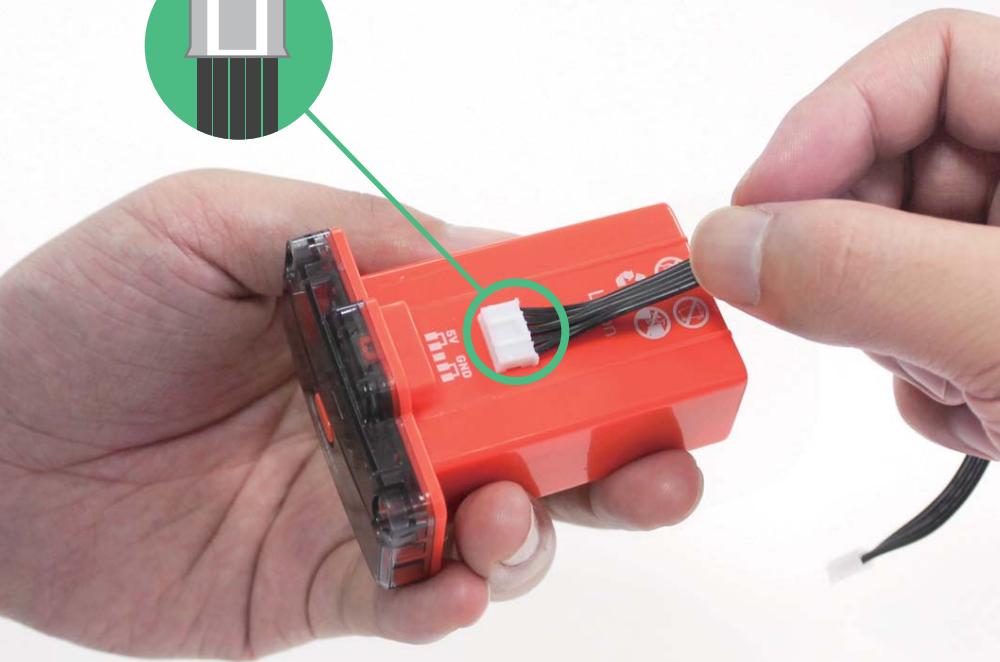
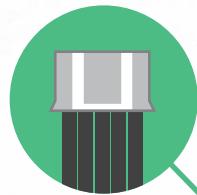
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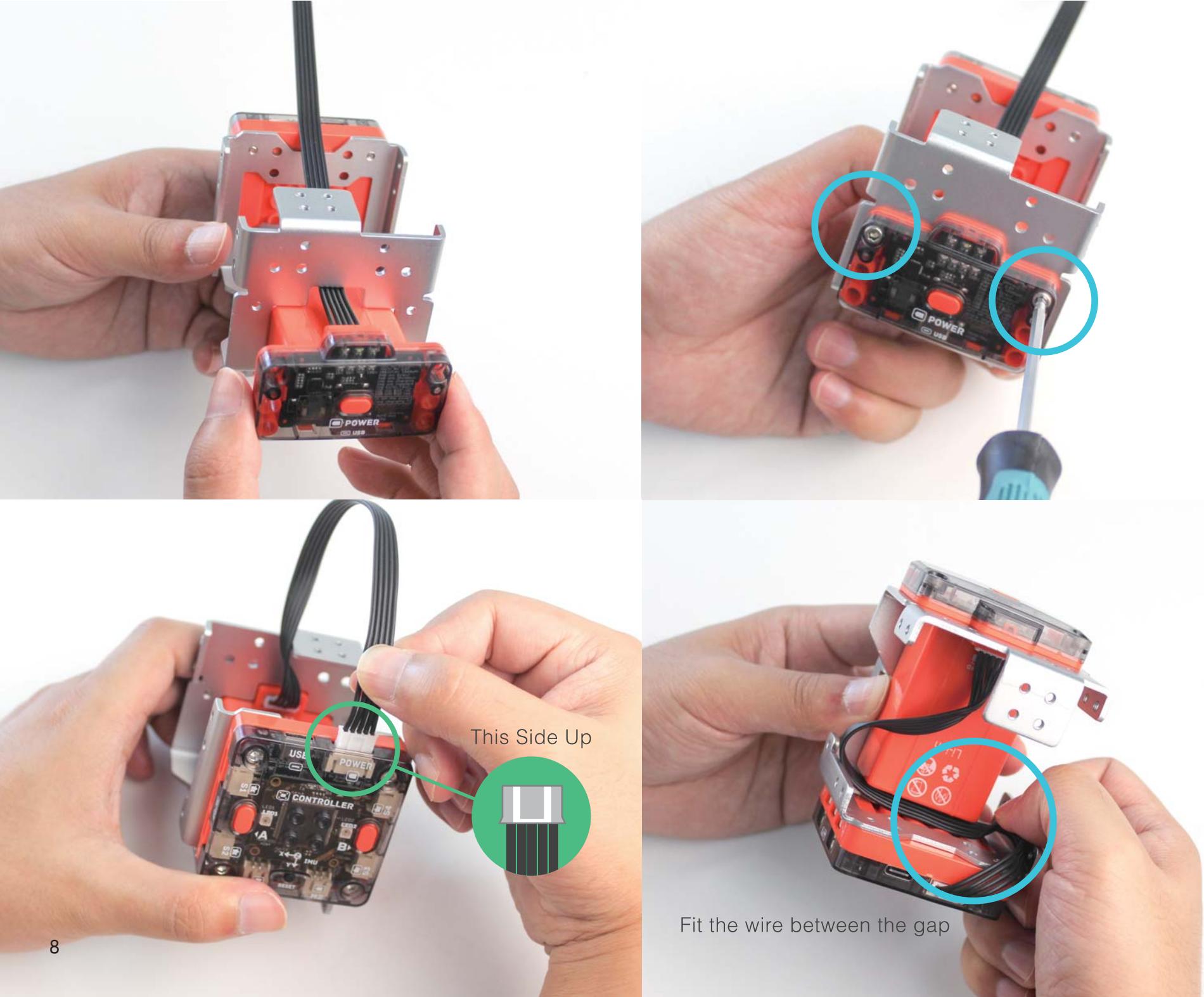


X2



This Side Up



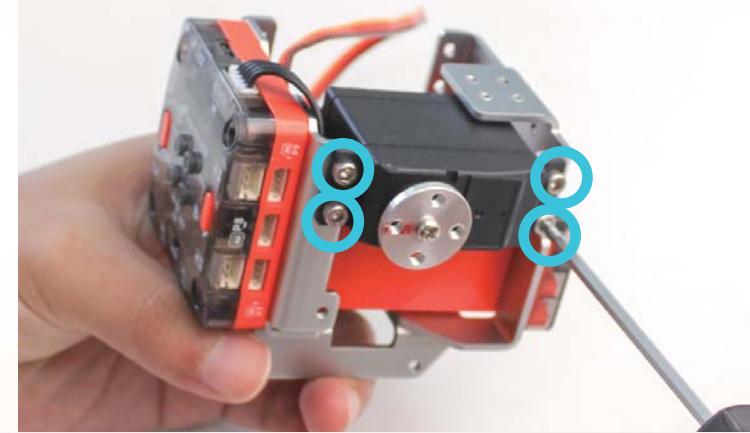
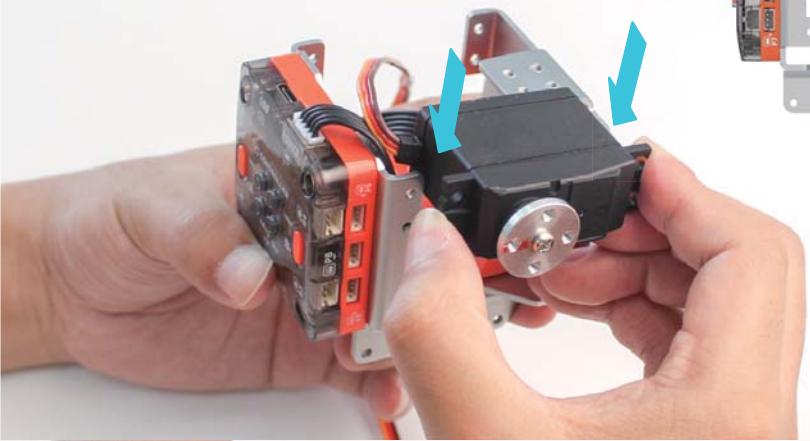
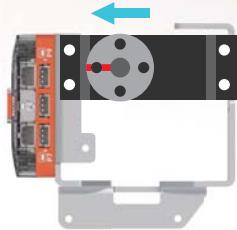


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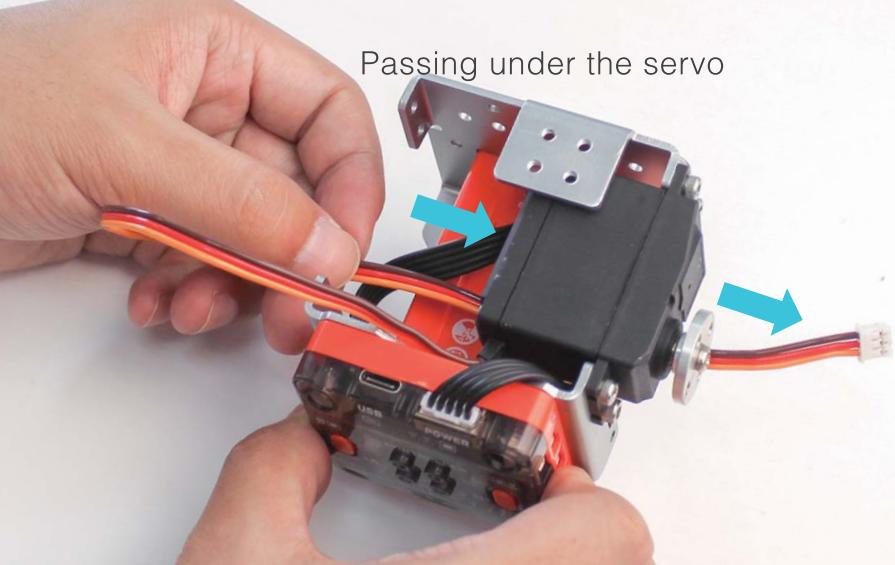


M3X4
X4

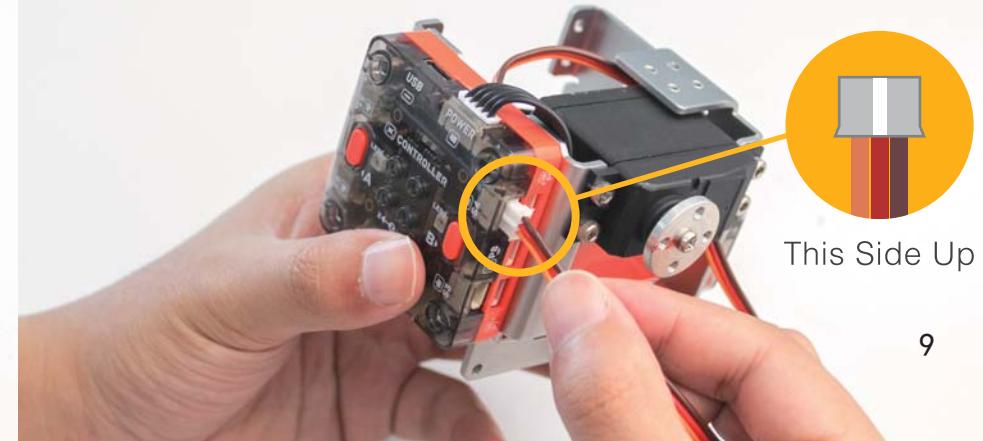
Please keep the servo arm close to the controller side



Passing under the servo



LEFT ARM » S4

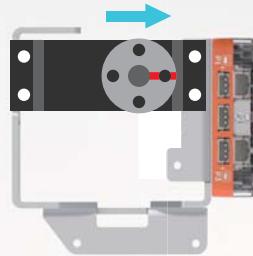


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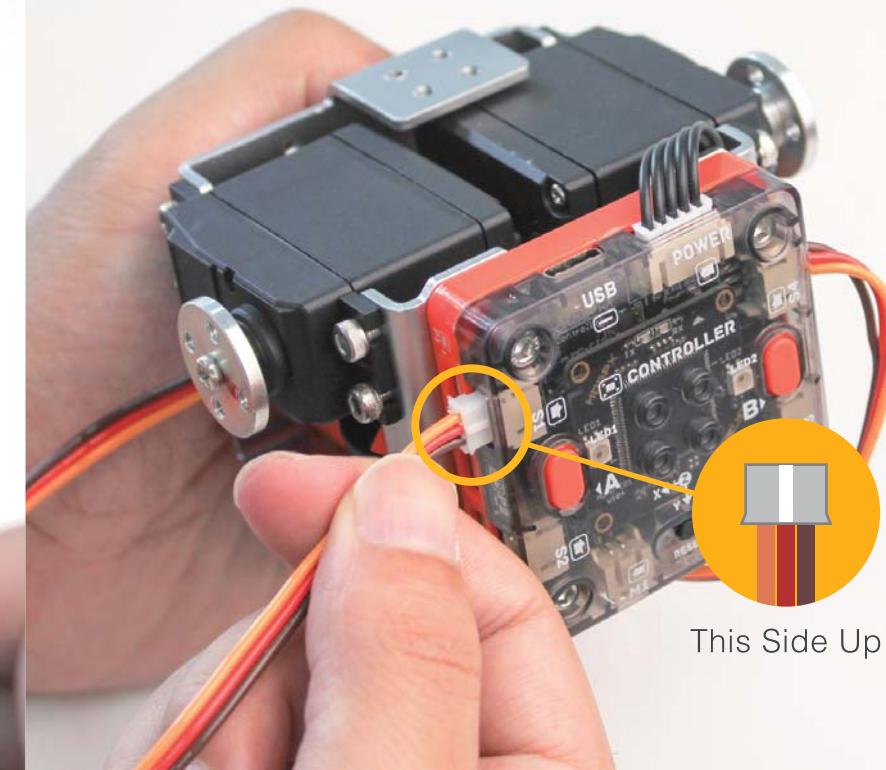
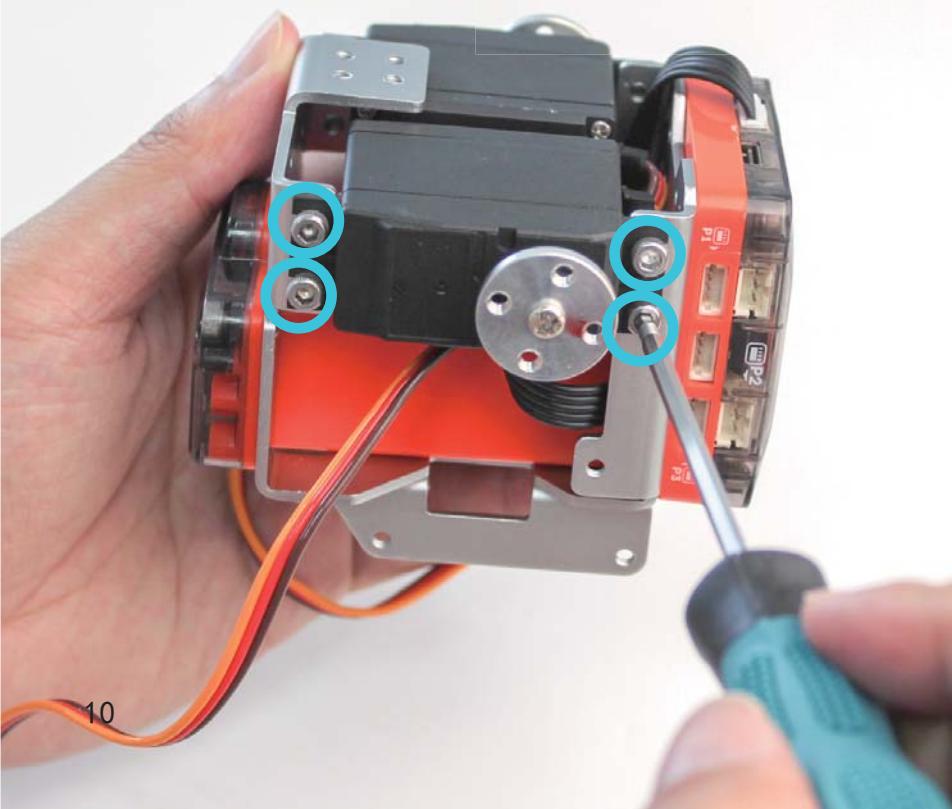


M3X4
X4

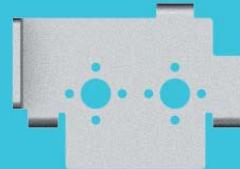
X4



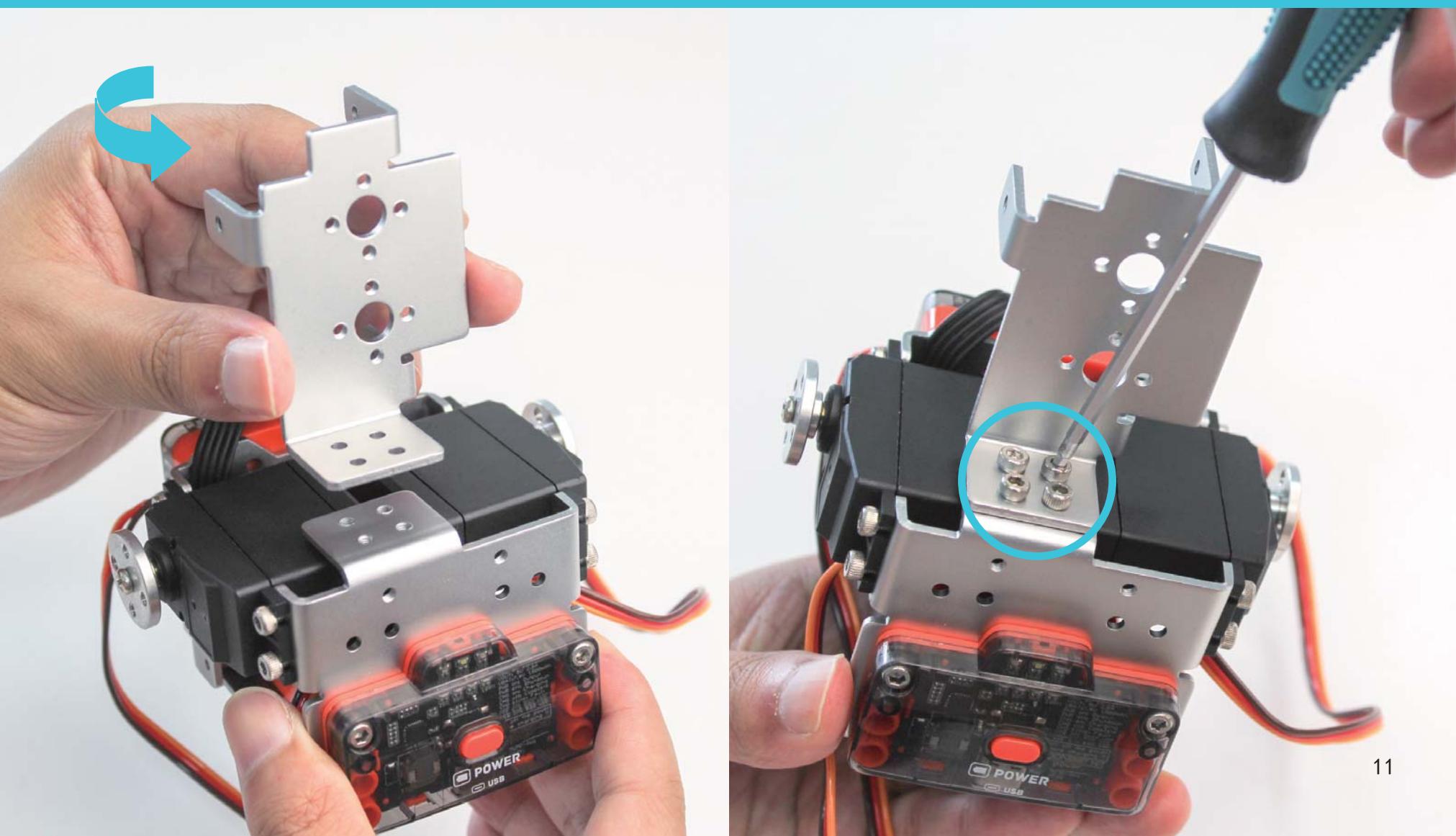
RIGHT ARM >> S1



7



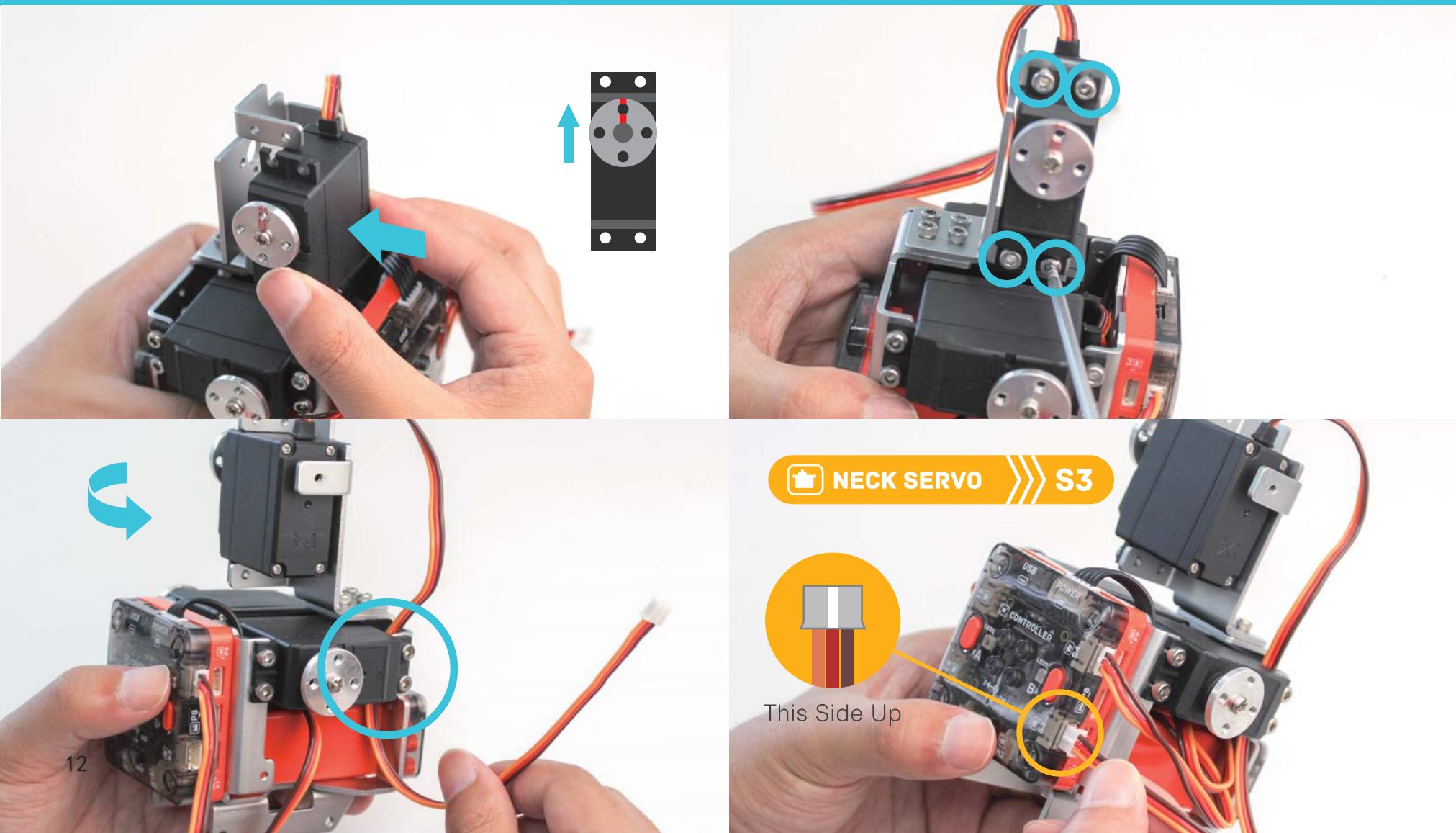
X4



8



X4



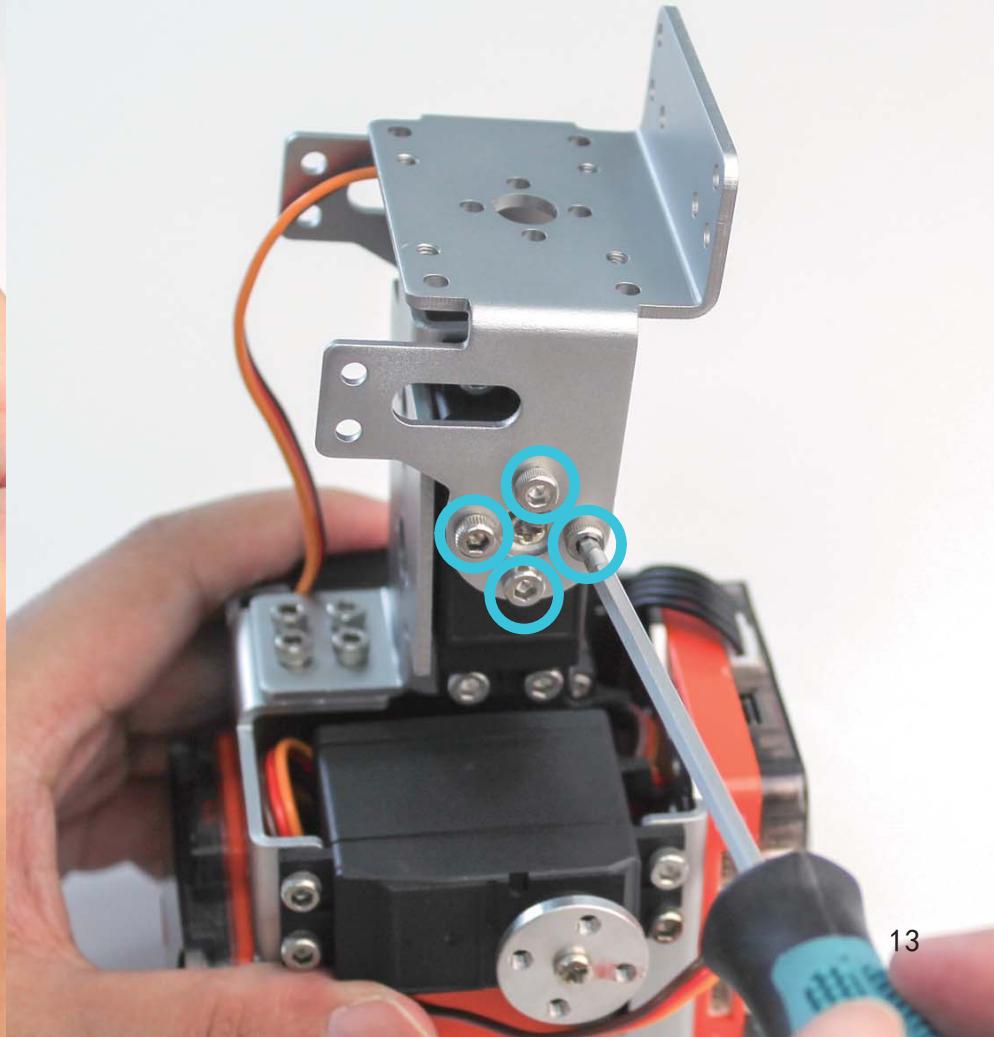
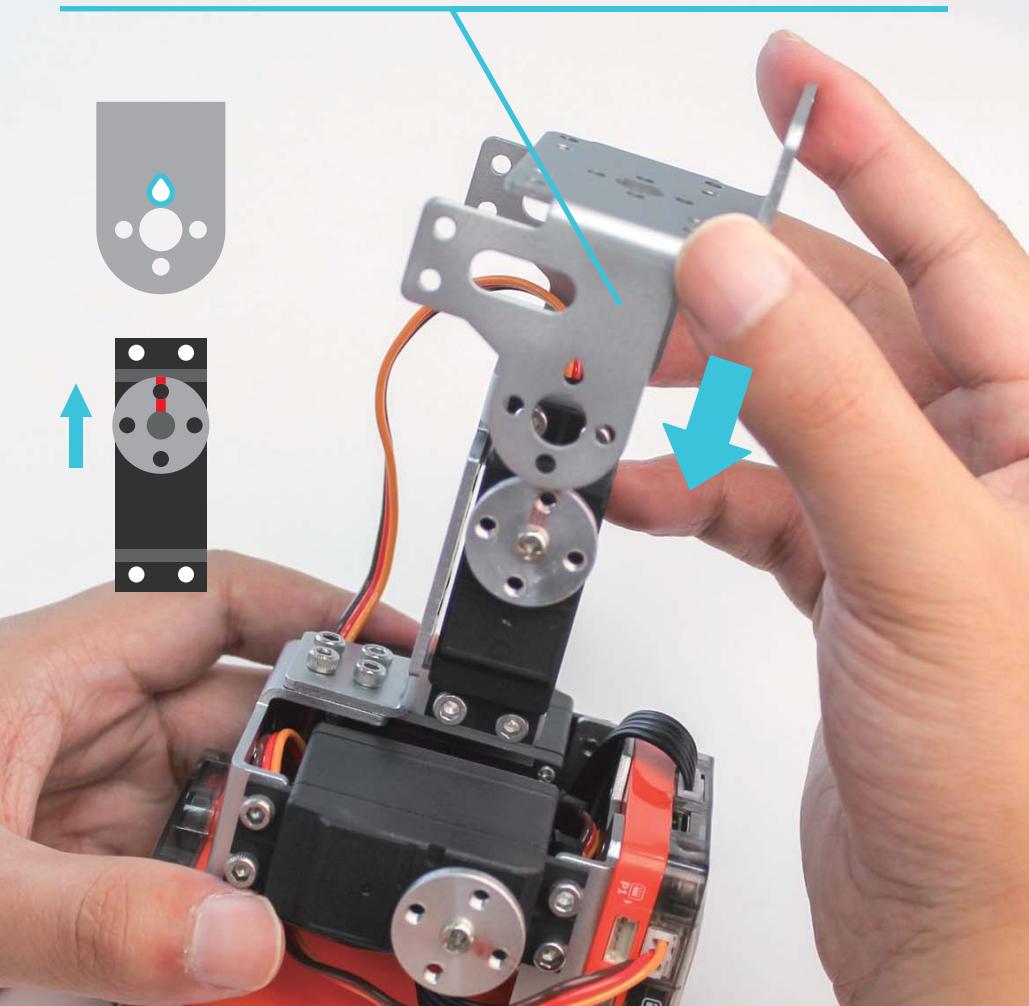
9



M3X4
X4



Please align this symbol with the red line on the servo plate



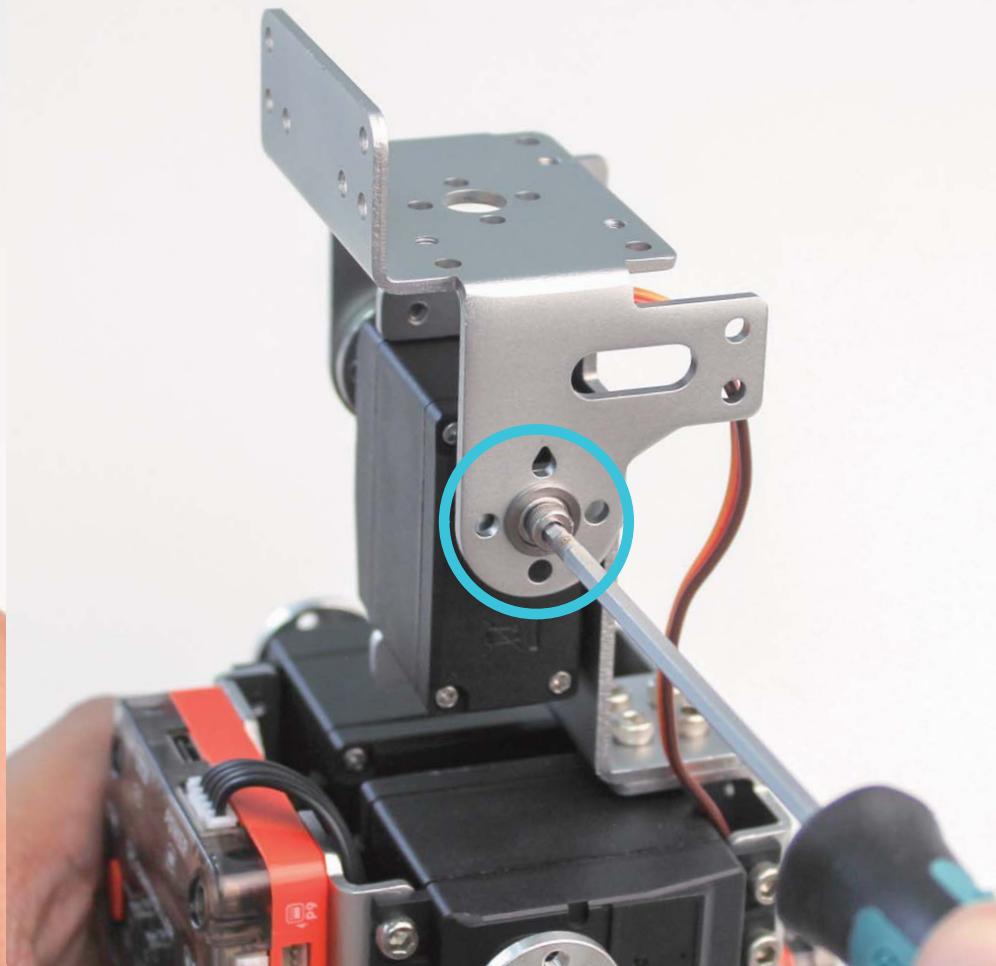
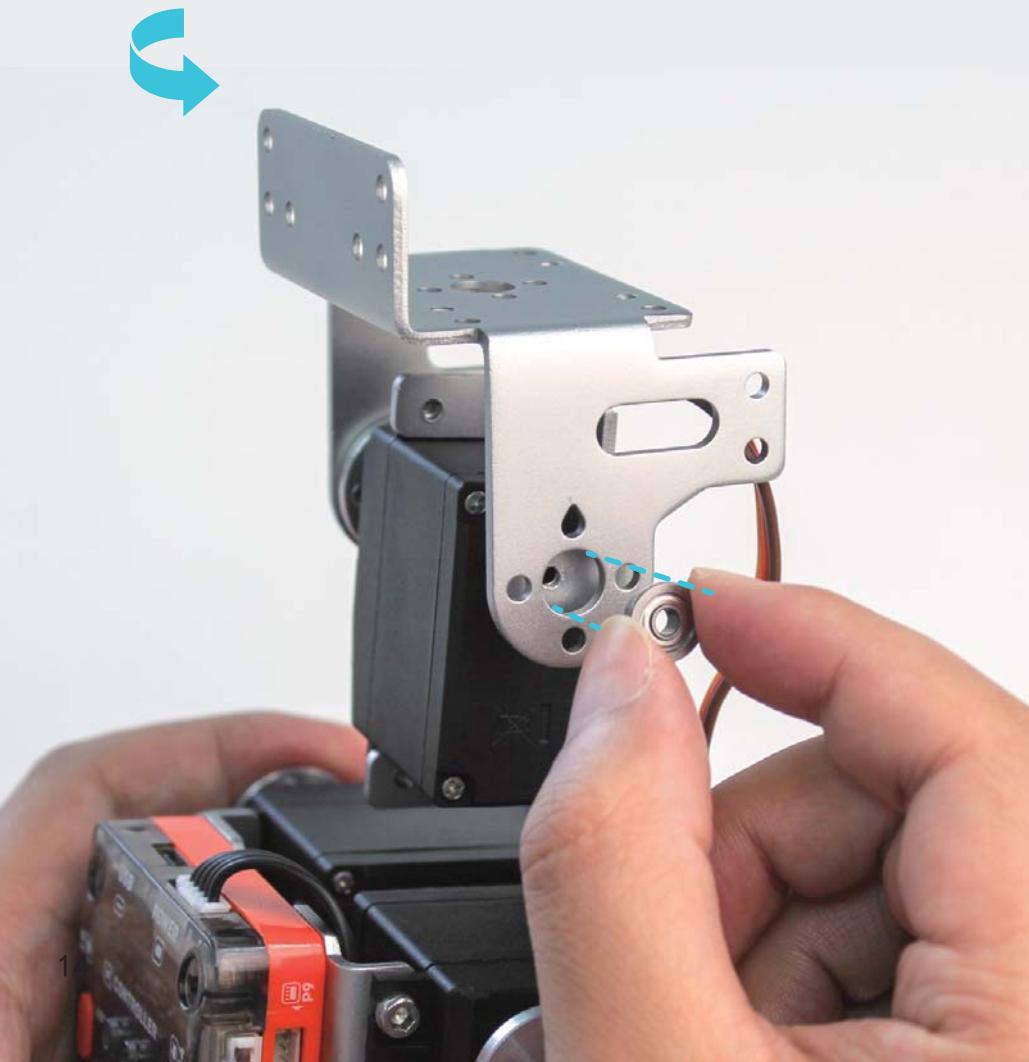
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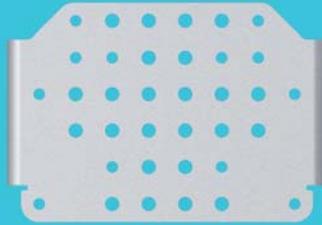
BEARING



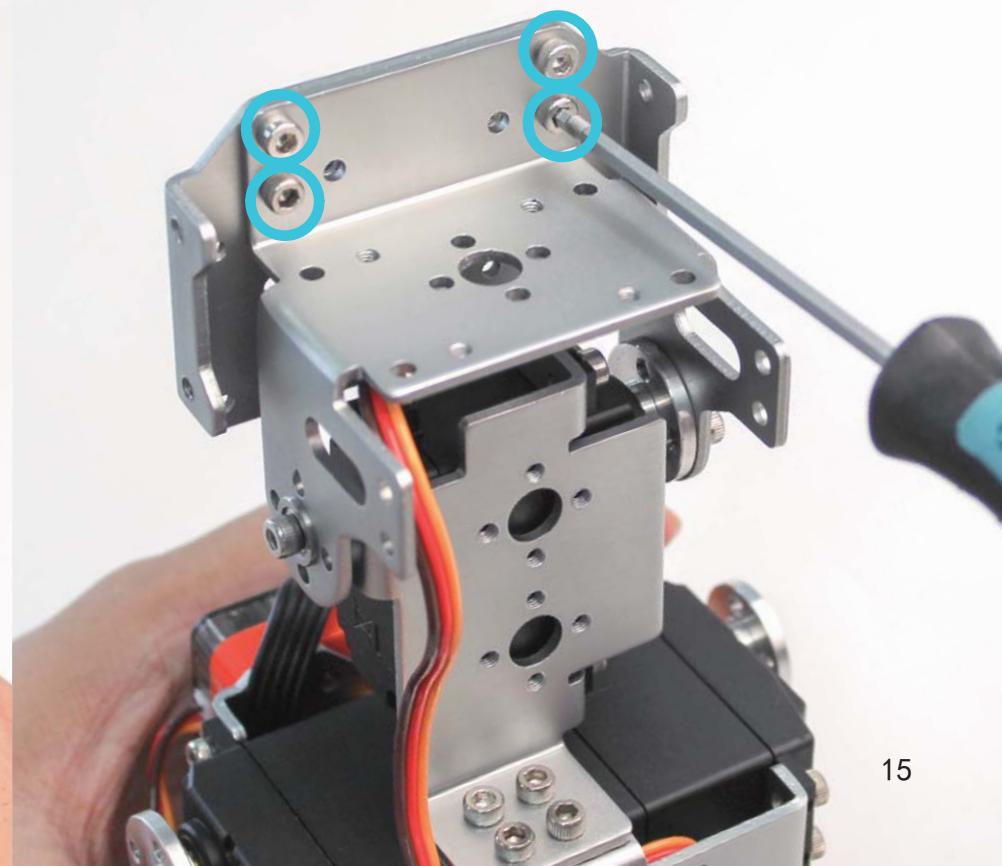
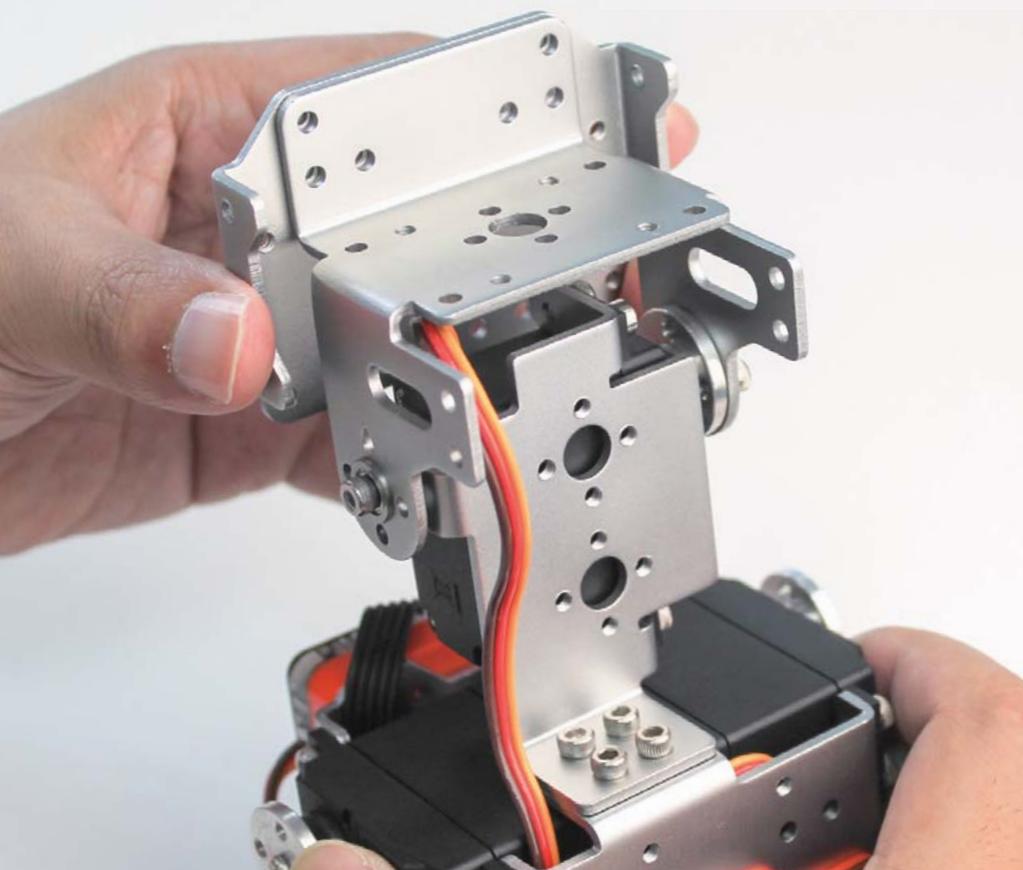
M3X8



11



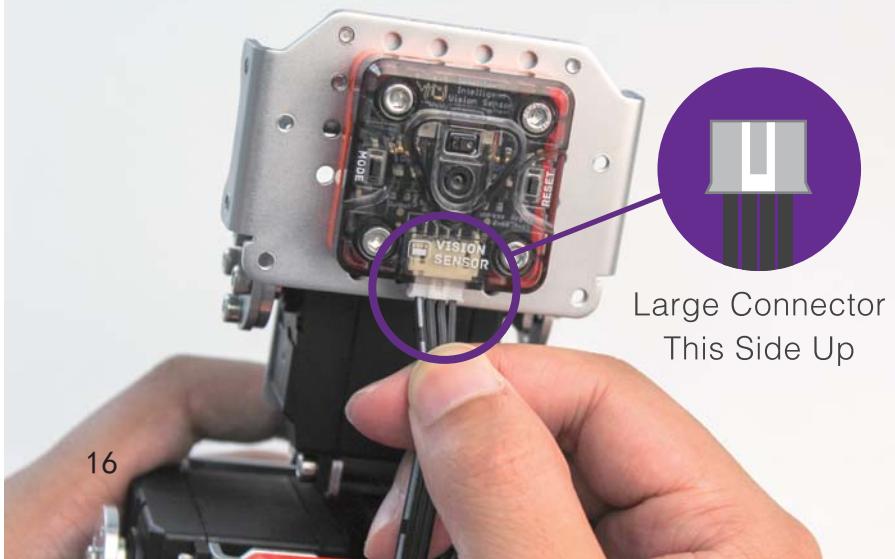
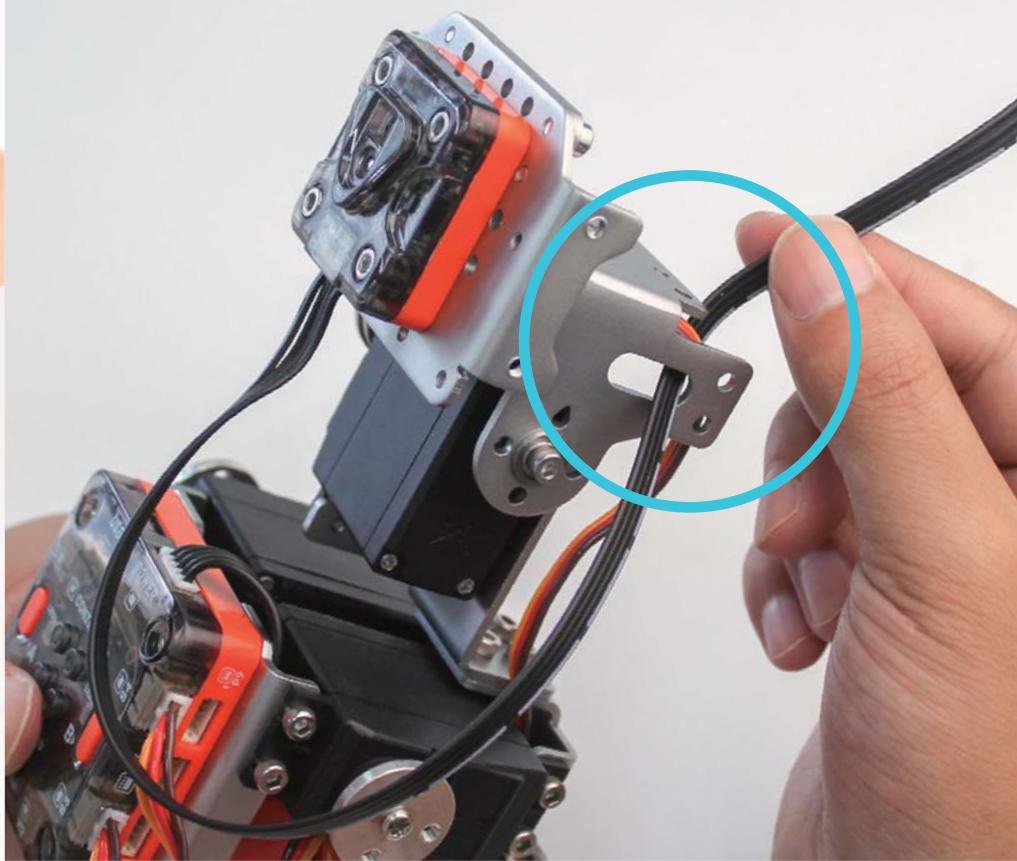
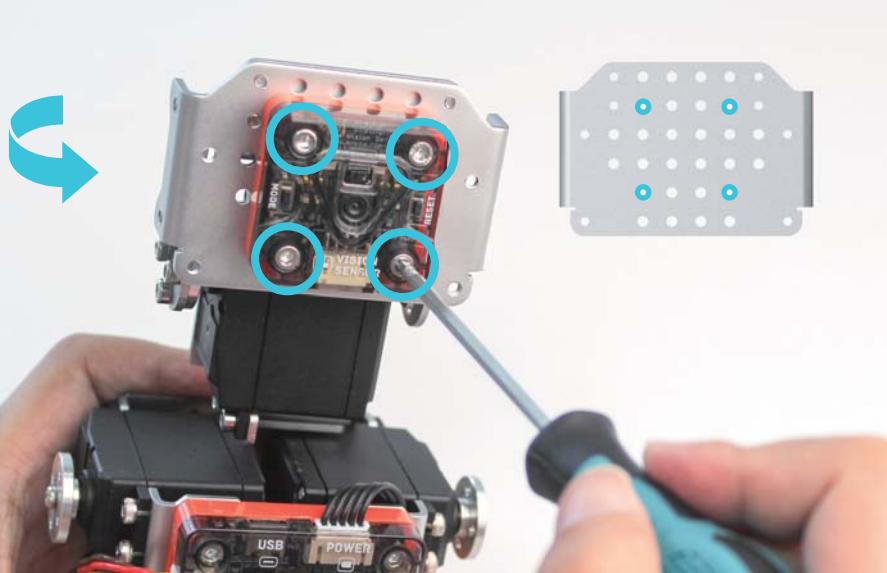
X4

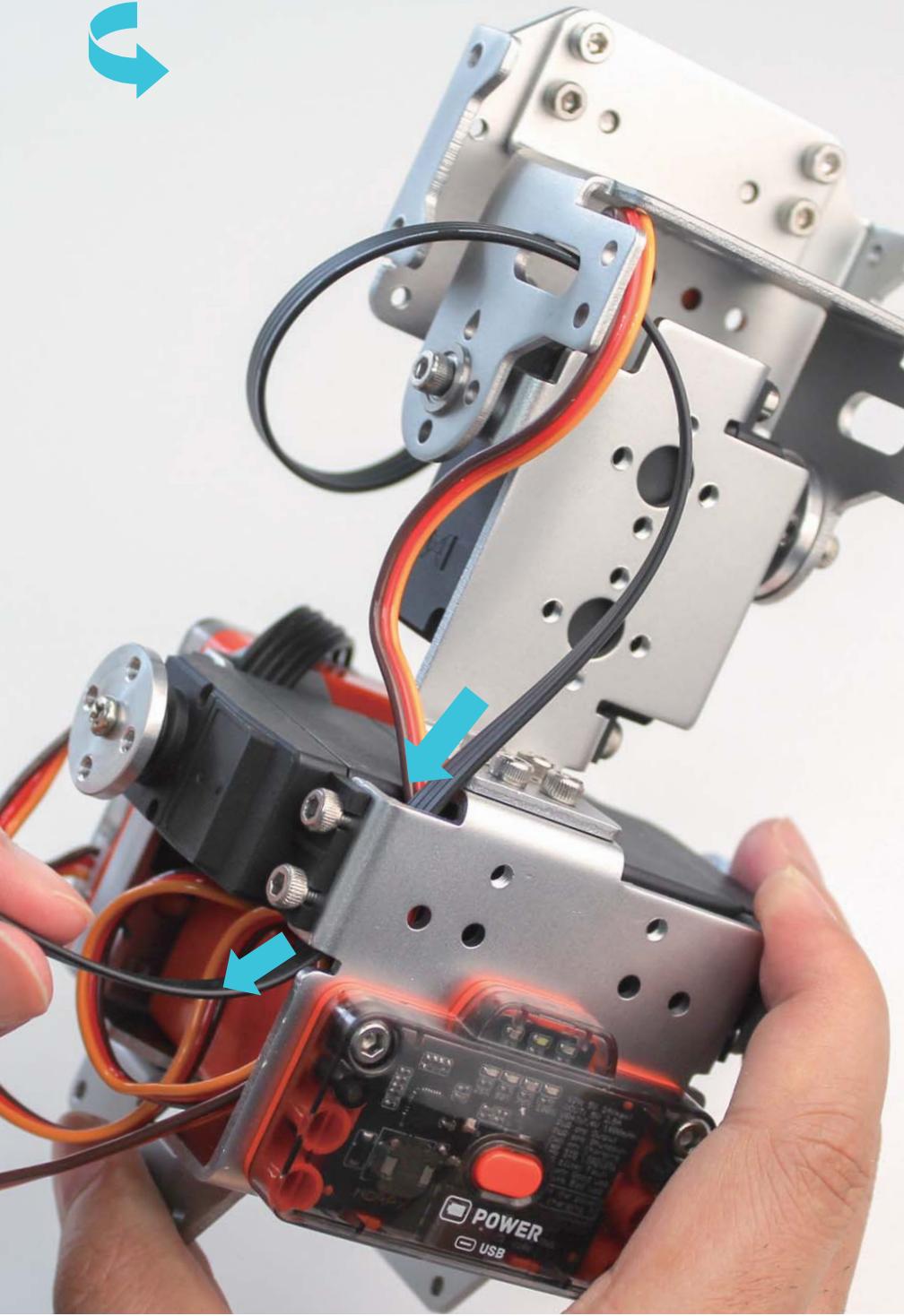


12



X2





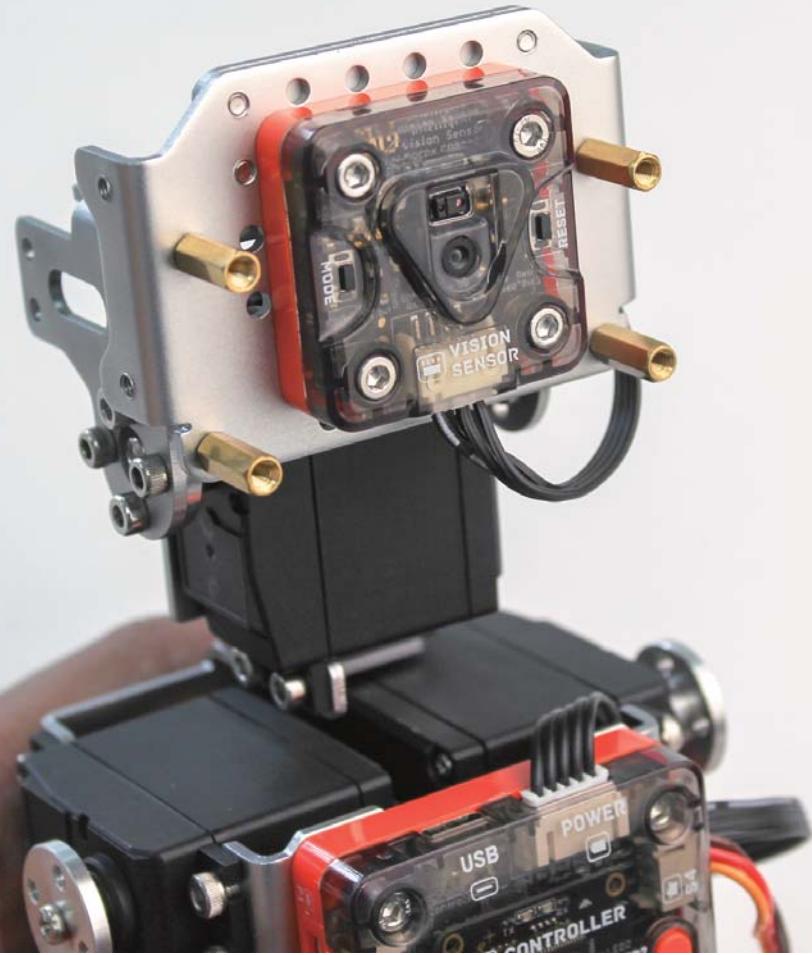
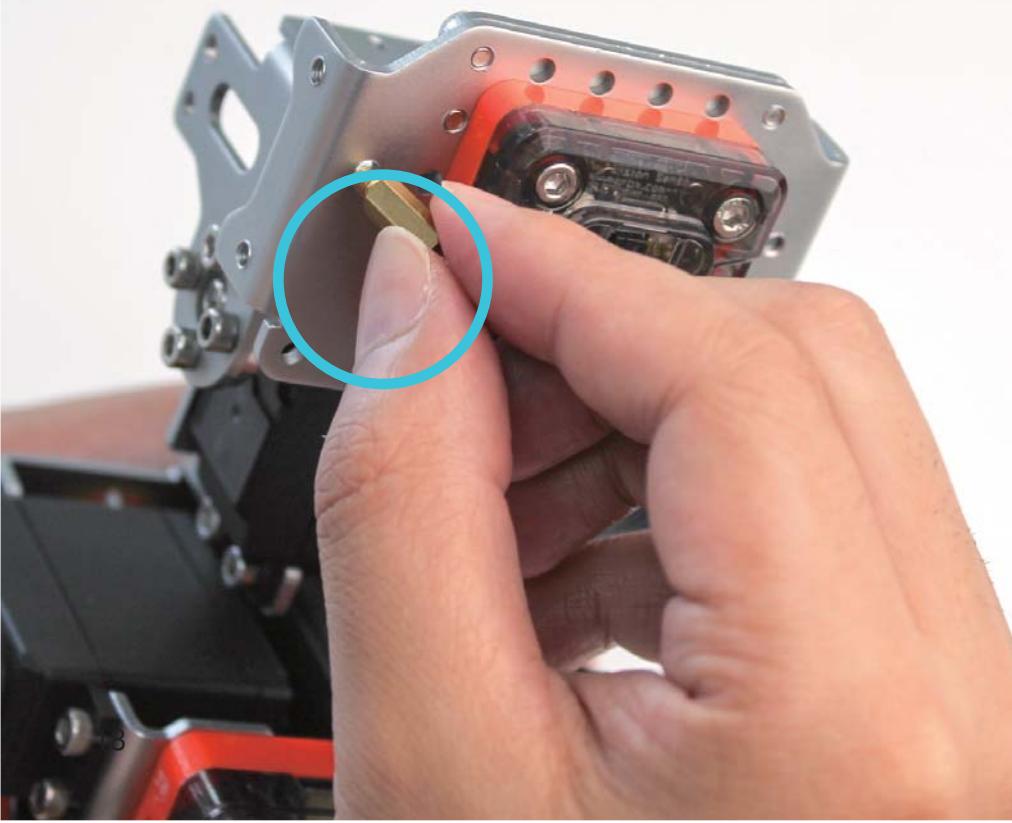
VISION SENSOR »» **P9**



13



X4



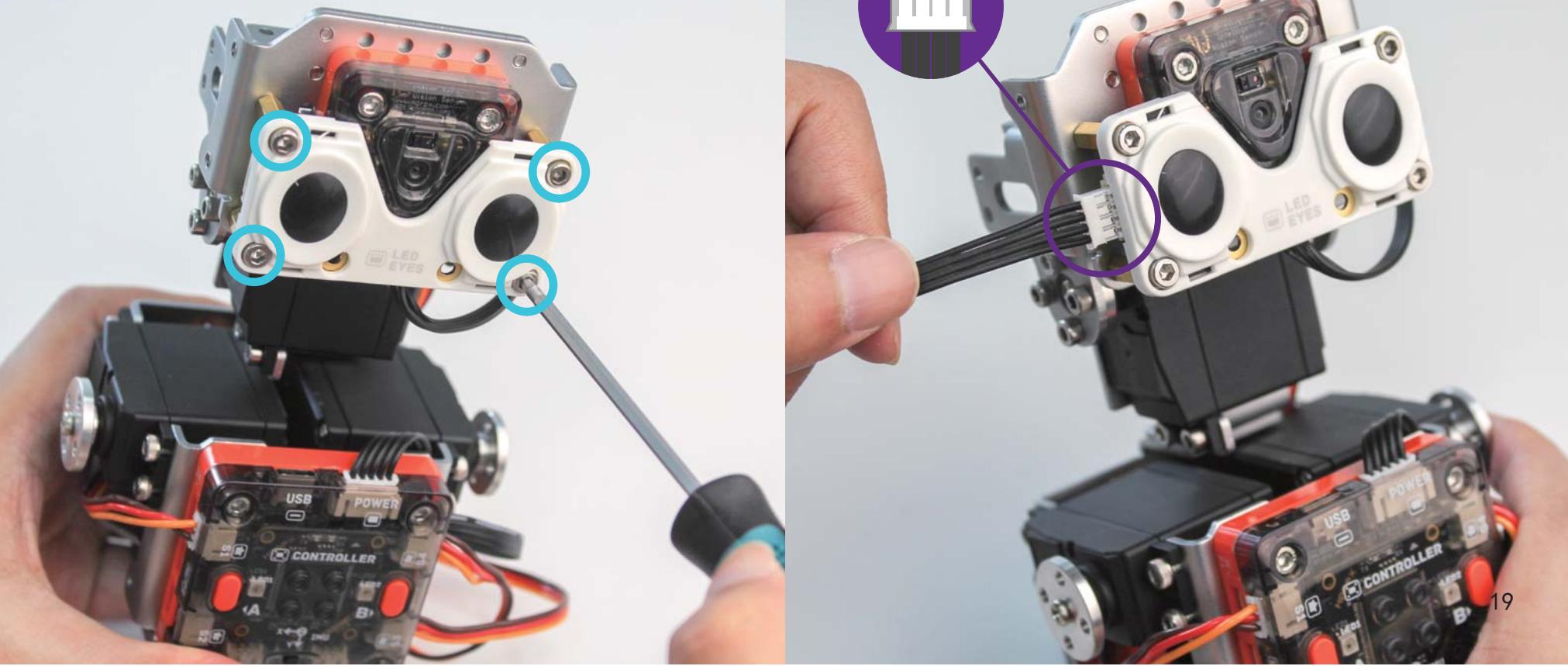
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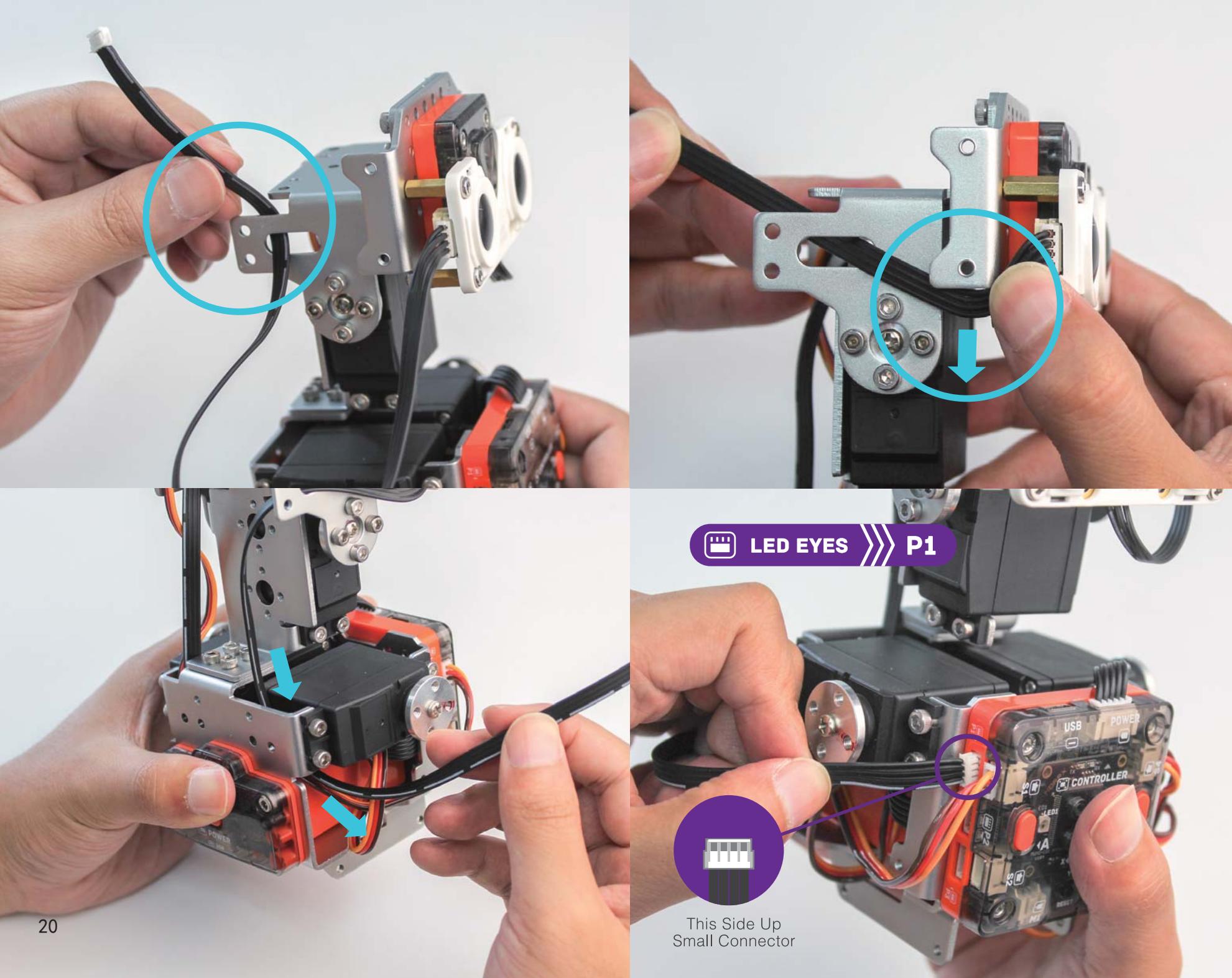


X4



This Side Up
Large Connector



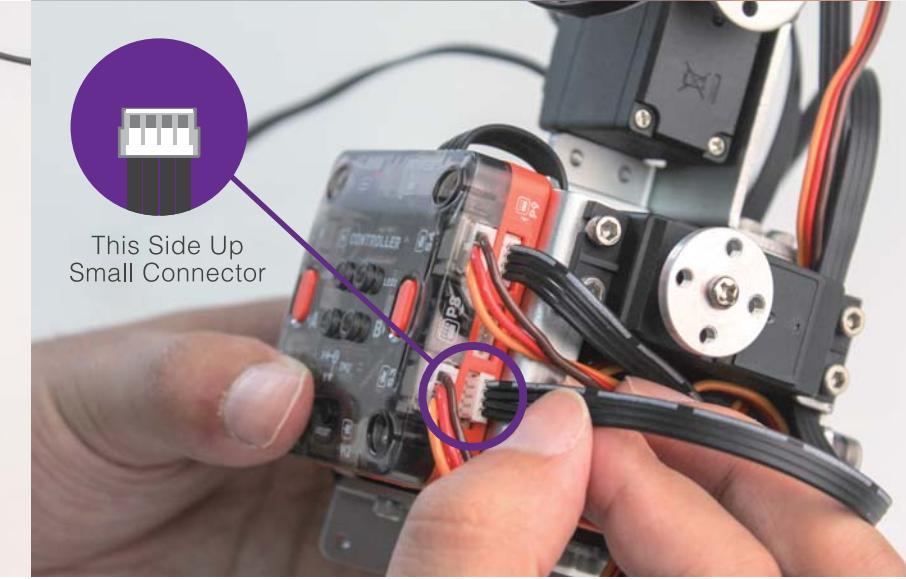
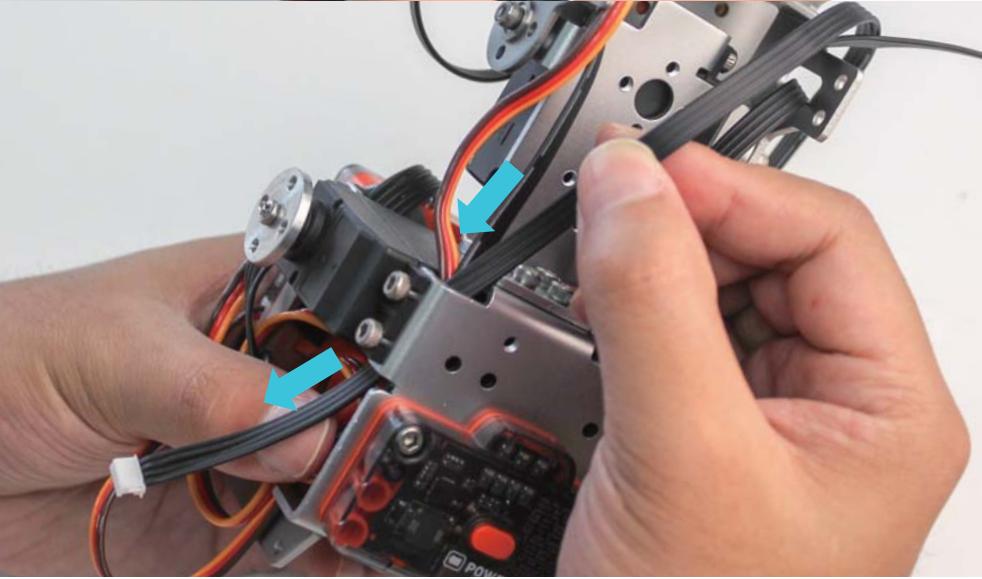
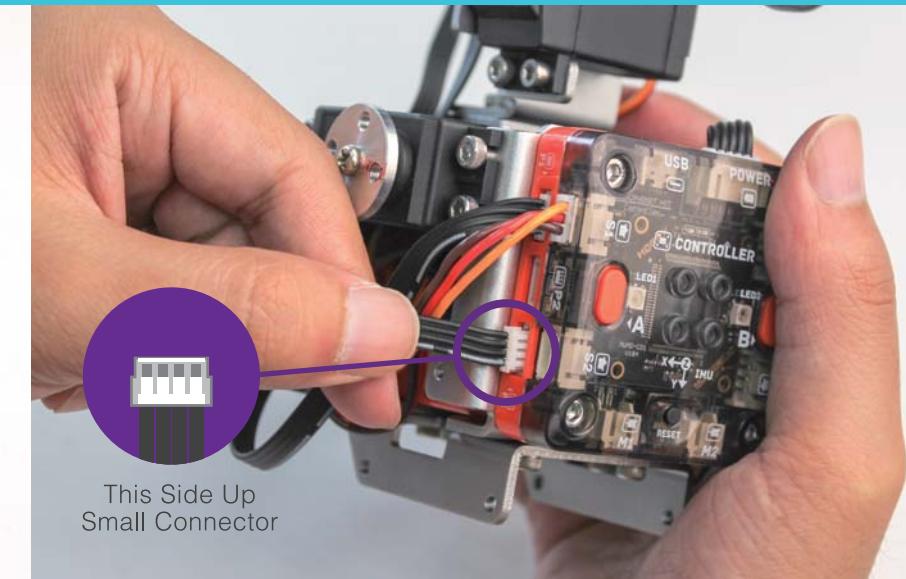
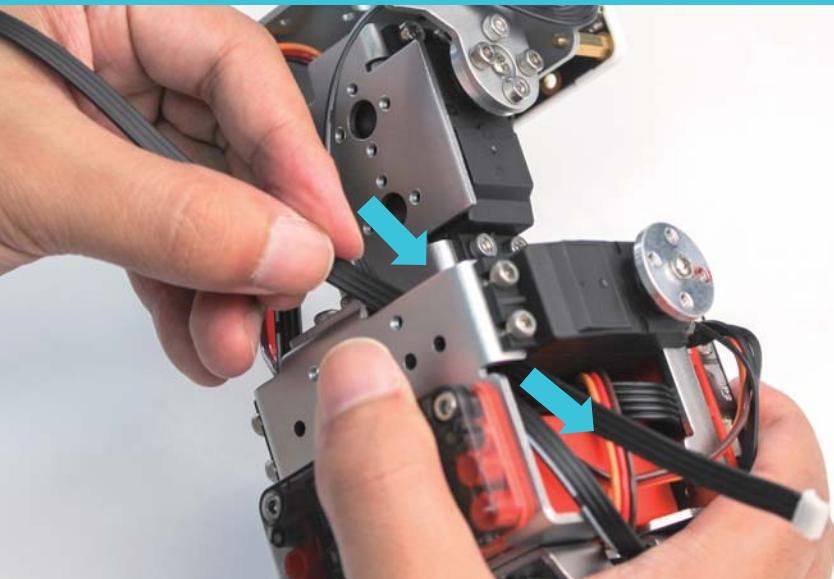


LED EYES ➤ P1



This Side Up
Small Connector

15



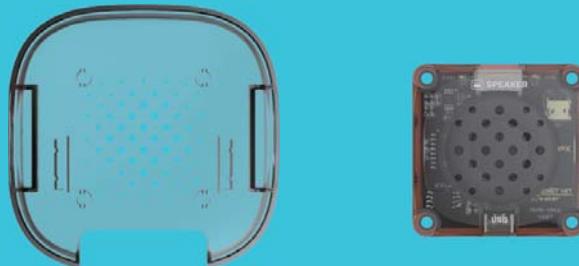


RIGHT TOUCH SENSOR »» P3

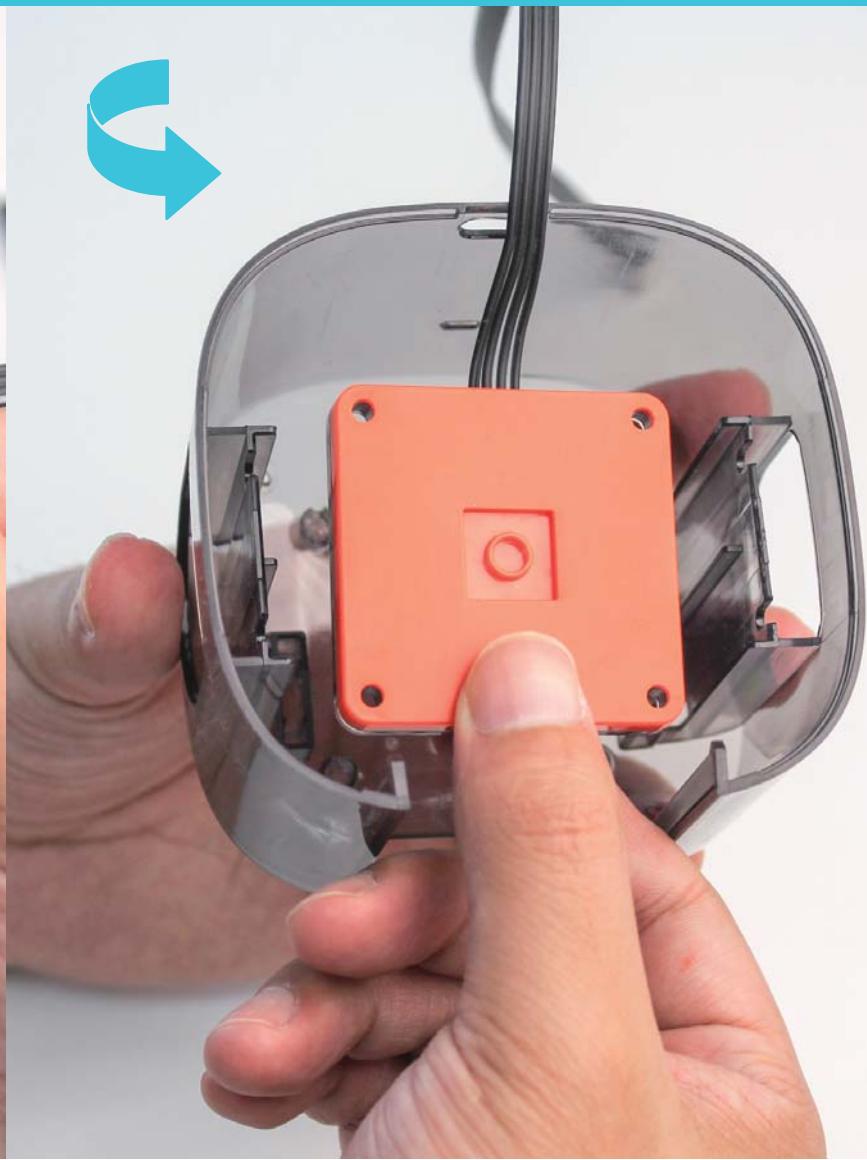
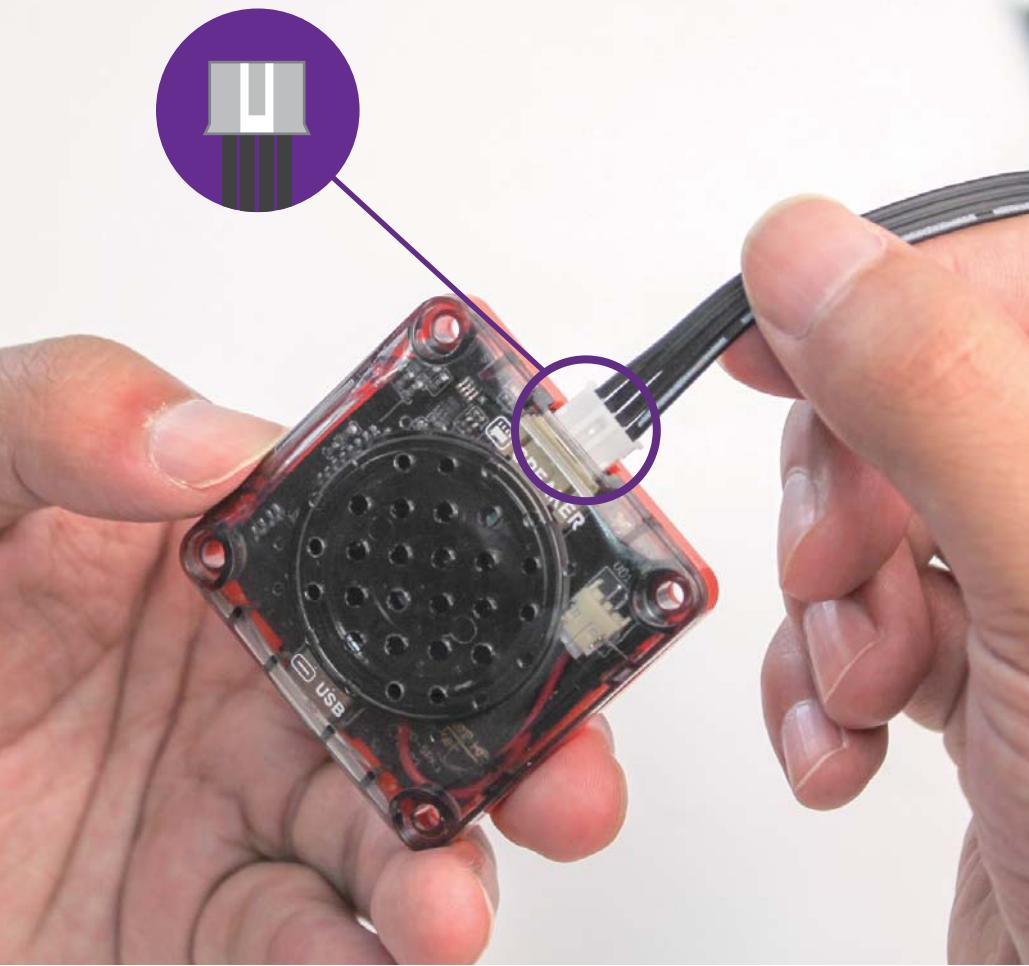


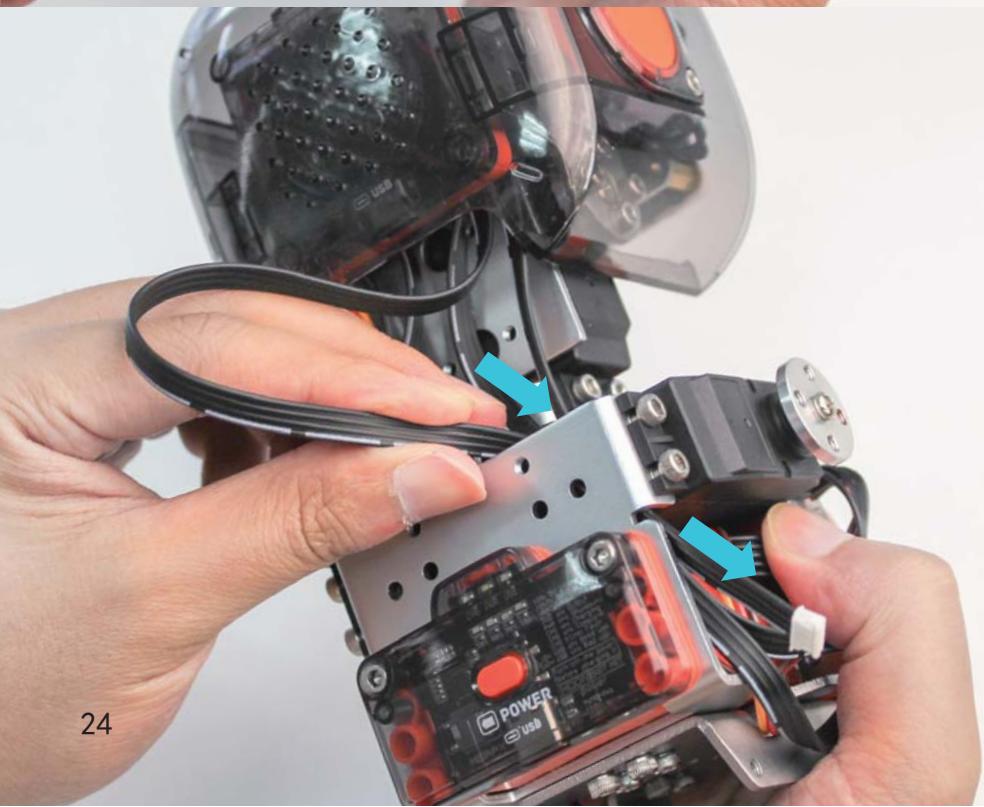
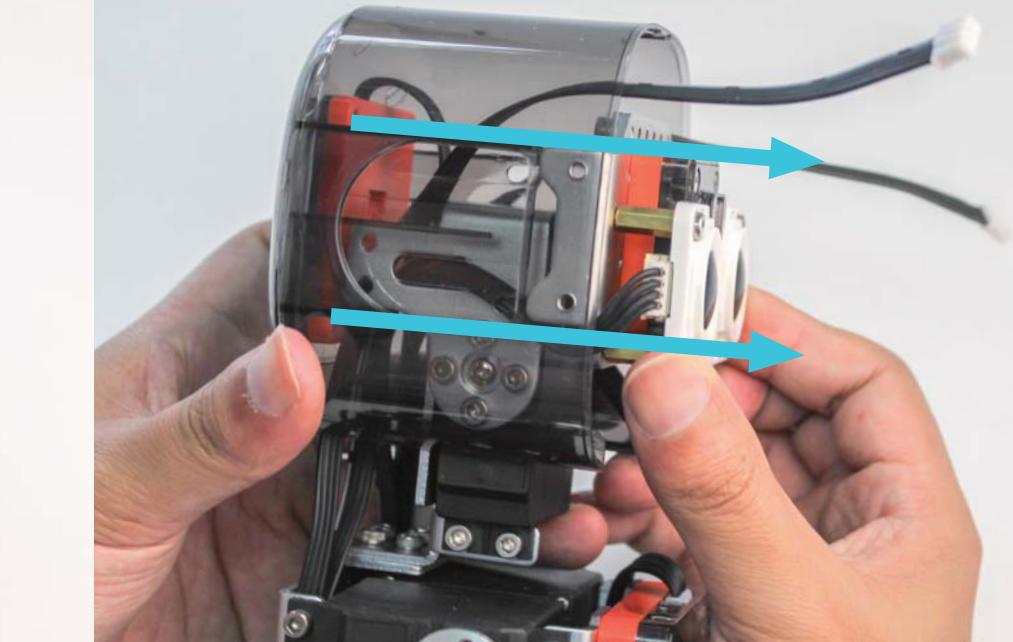
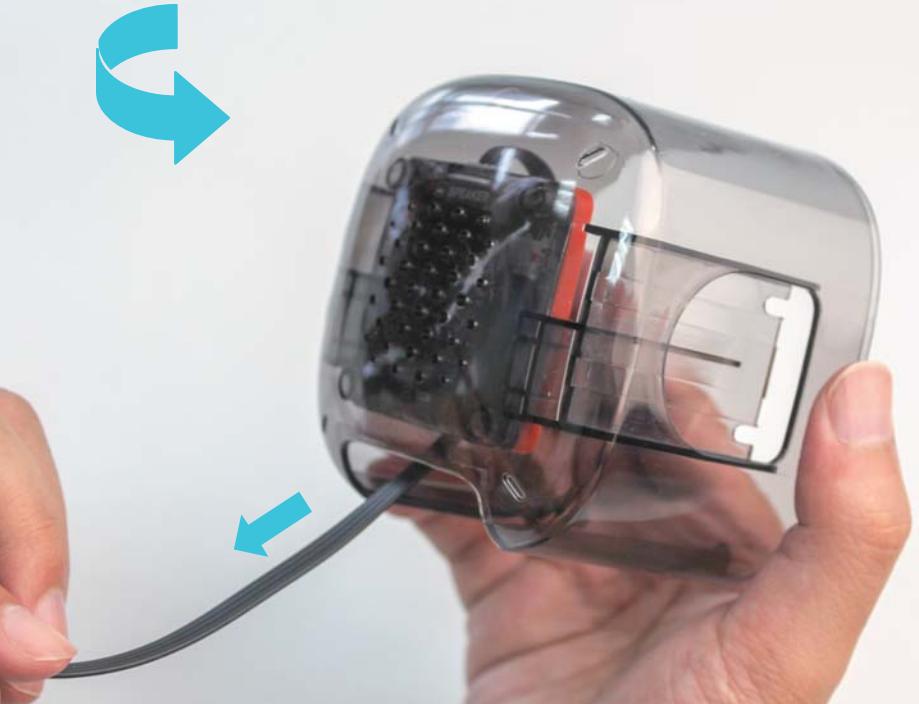
LEFT TOUCH SENSOR »» P7

16

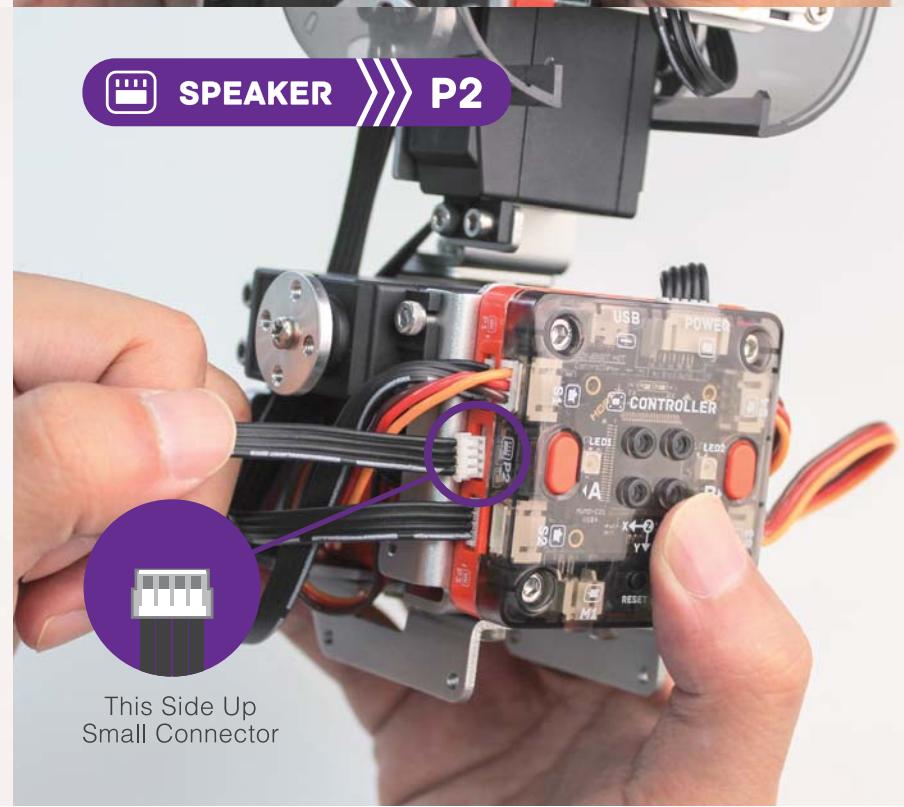


Large Connector
This Side Up





SPEAKER ➞ P2

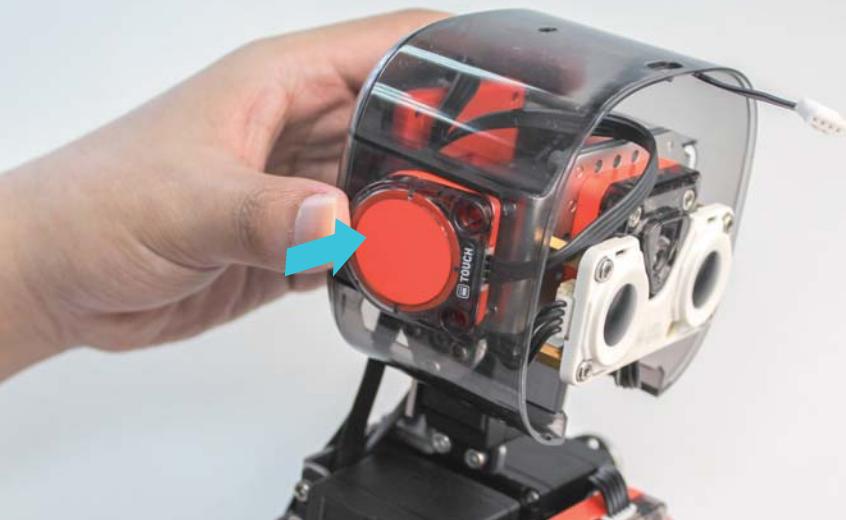


17



X2

This Side Up
Large Connector



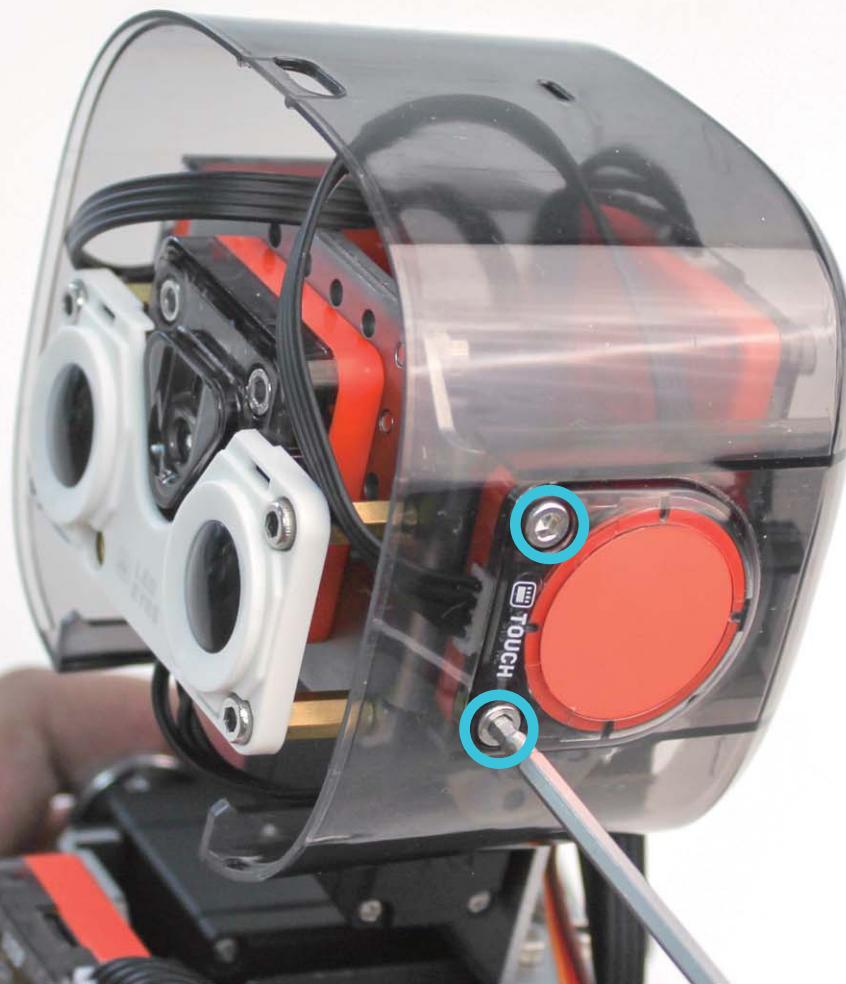
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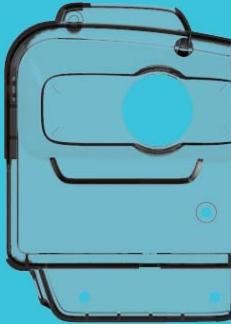
X2



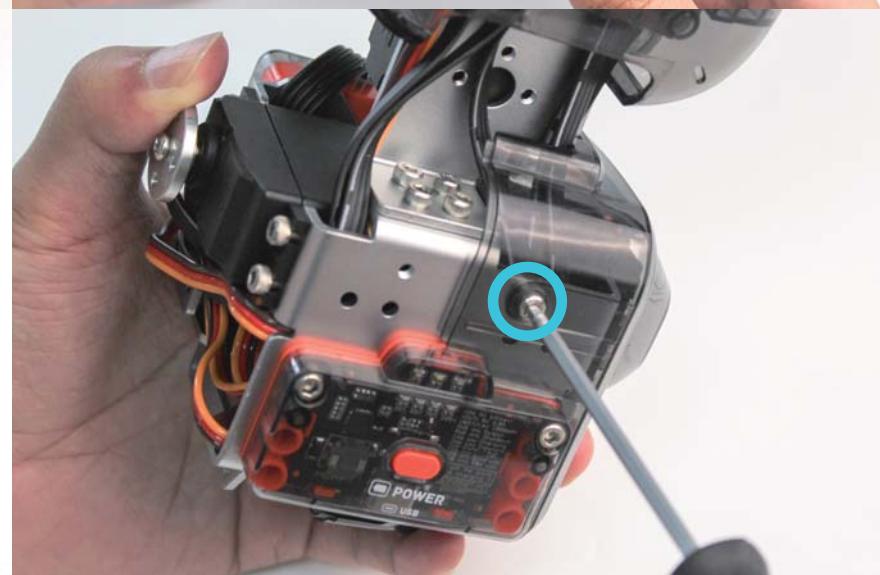
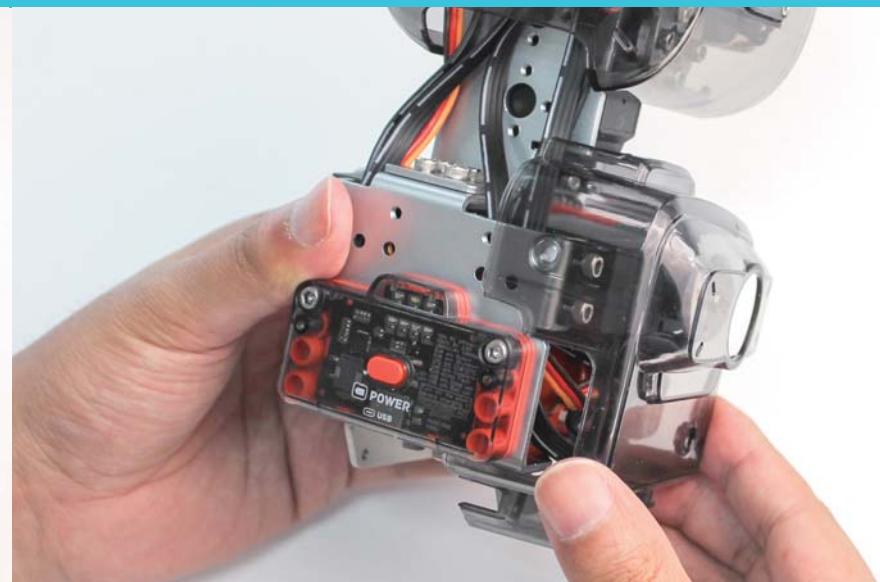
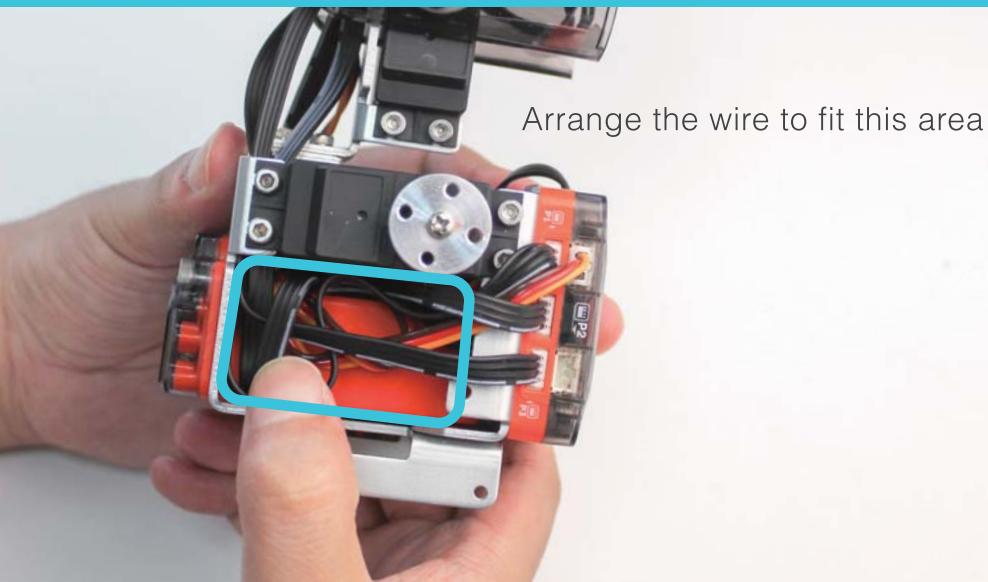
Use the same method to install the left touch module



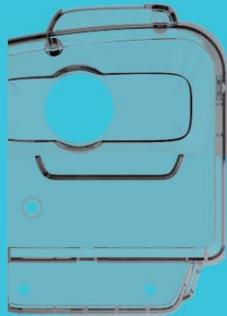
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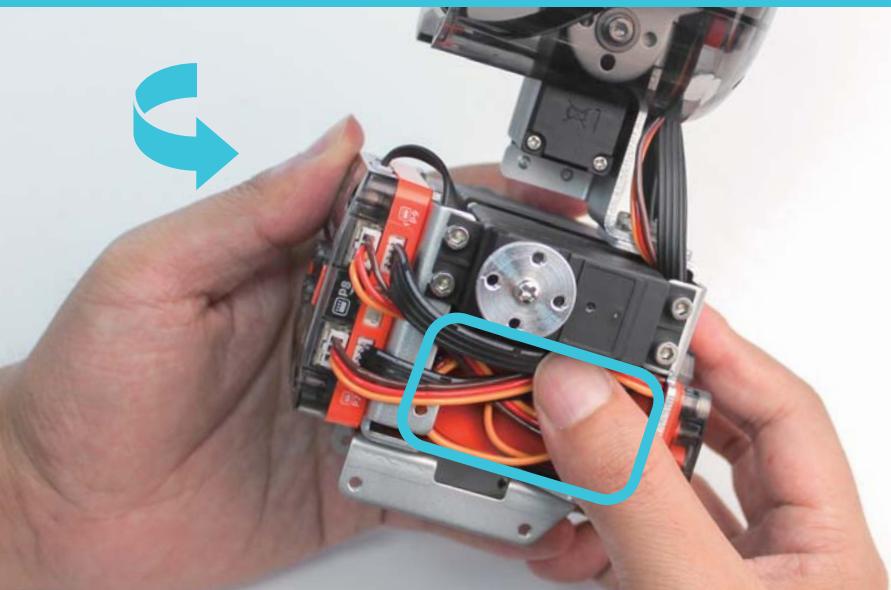
X2



20



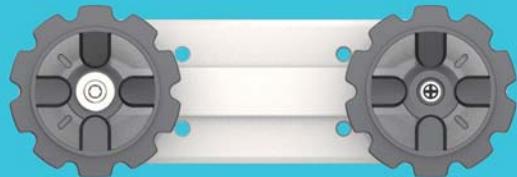
M3X4
X2



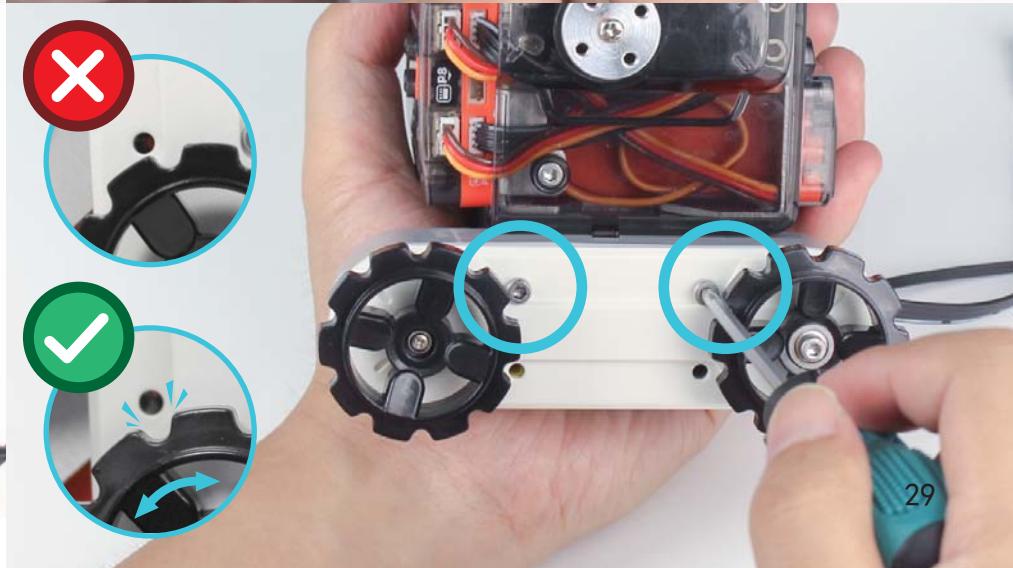
Arrange the wire to fit this area, And close the left and right covers

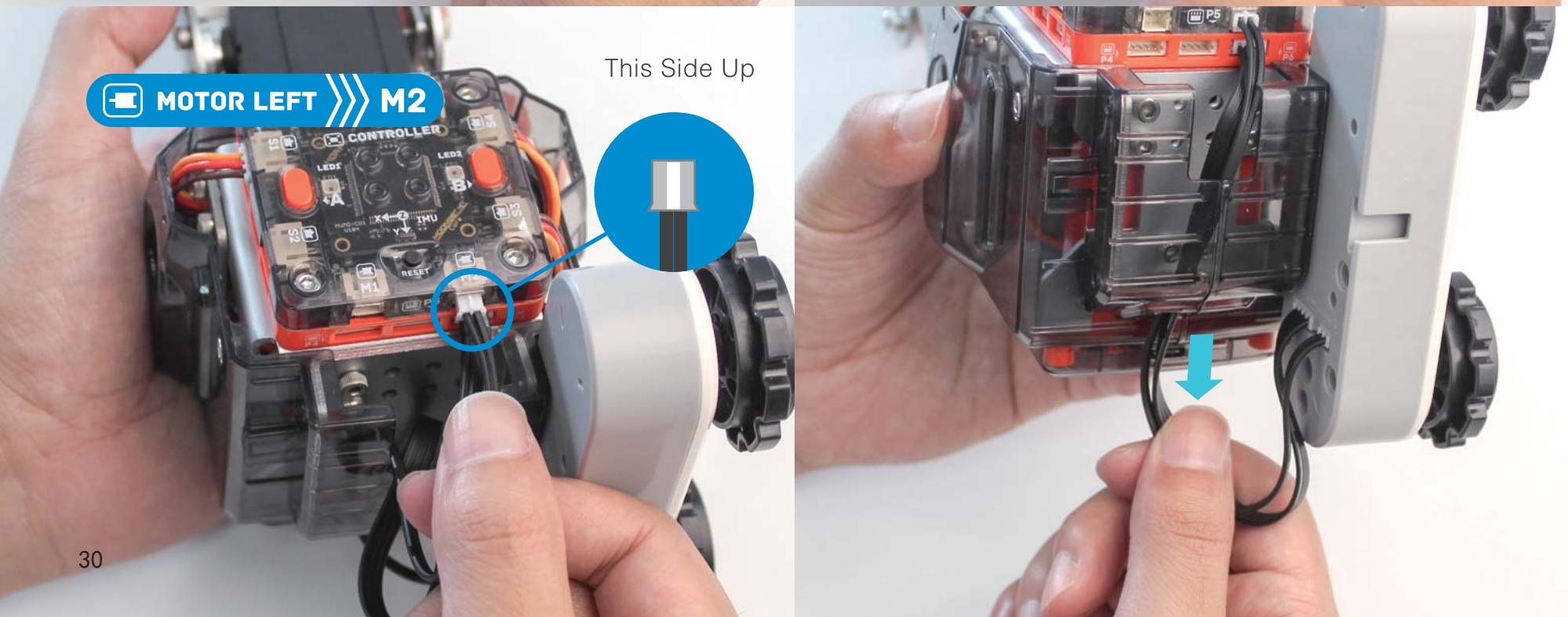
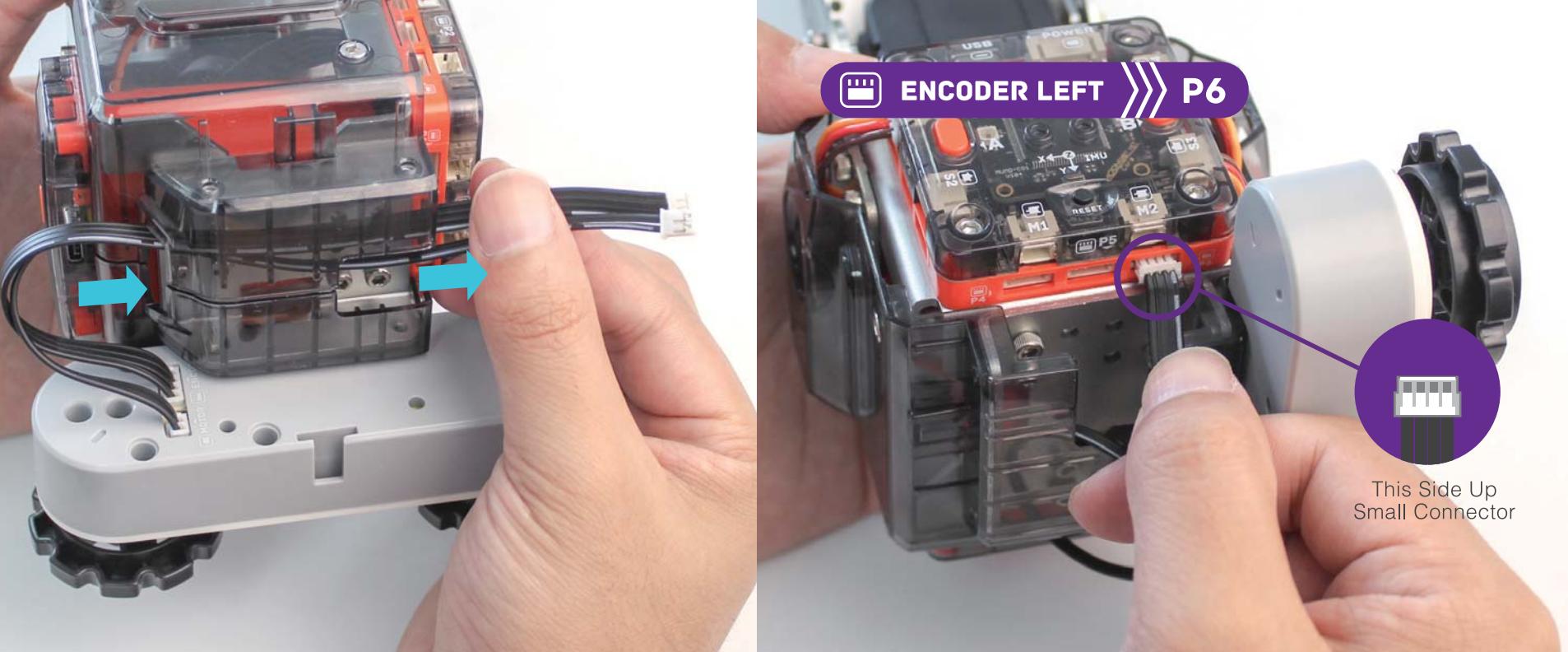


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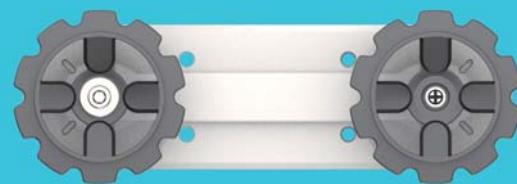


X2





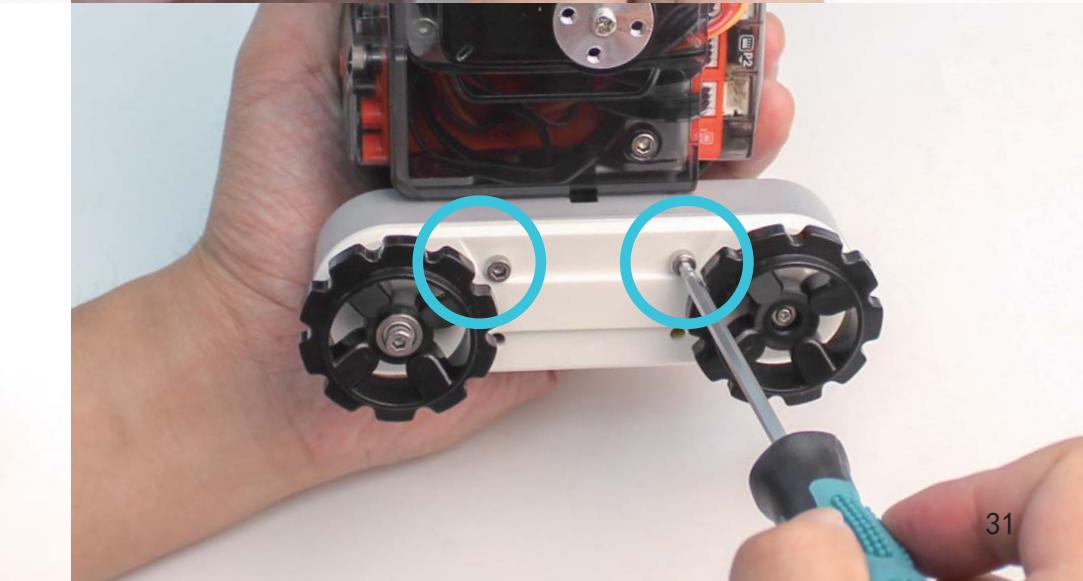
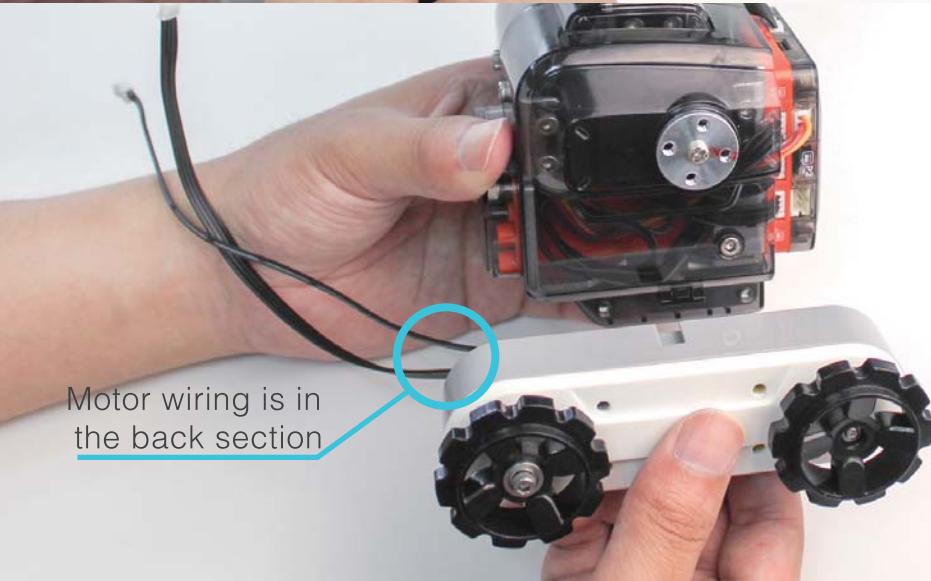
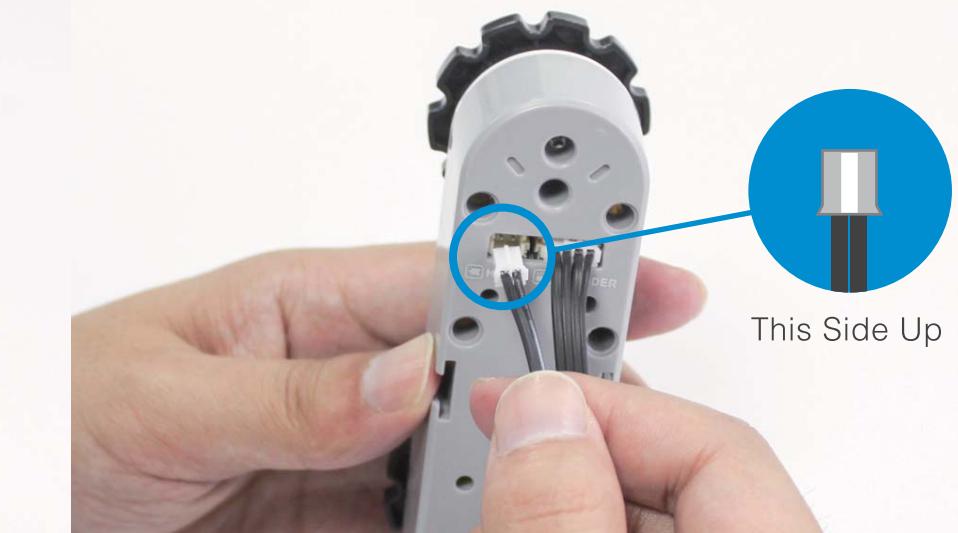
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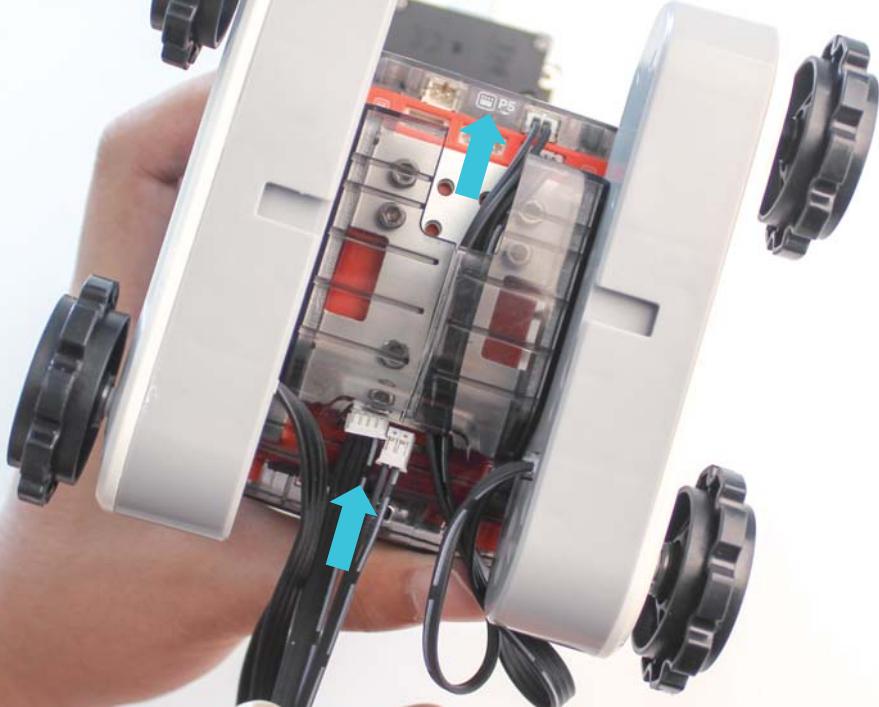


M3X28
X2

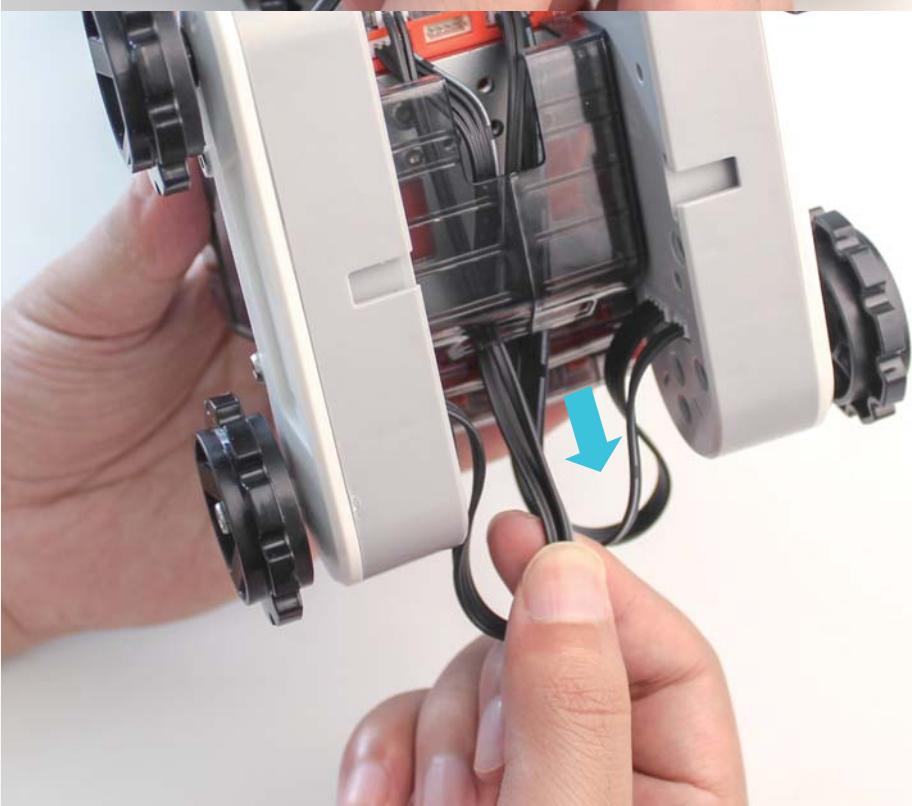
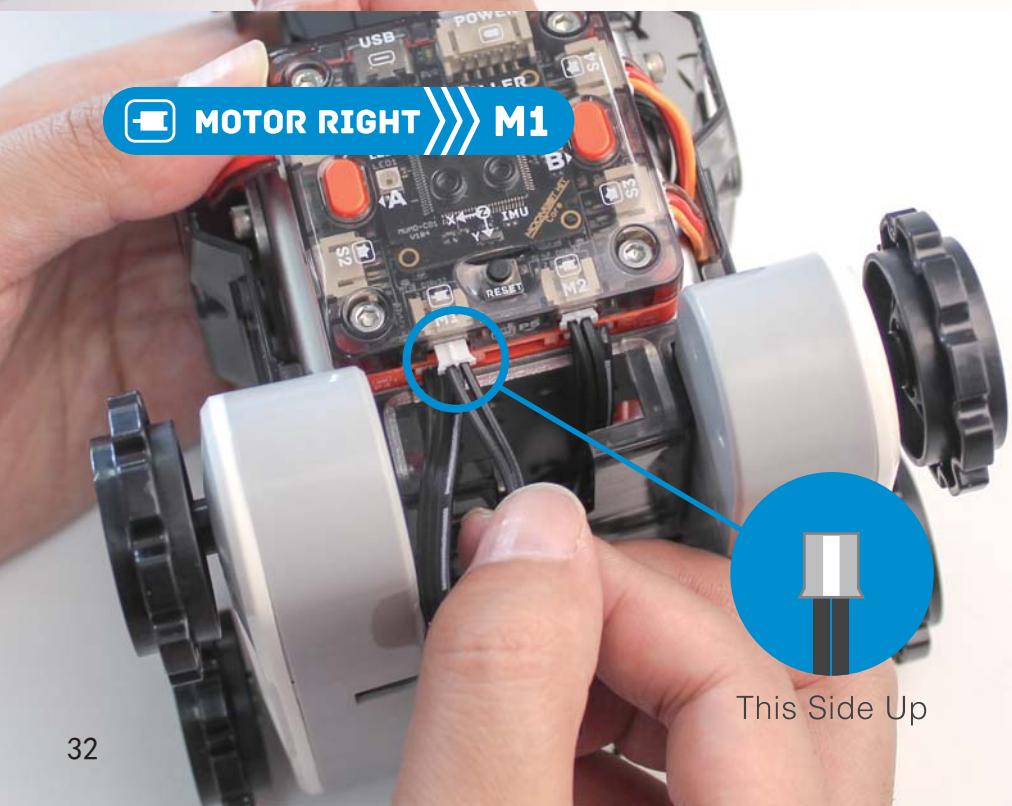
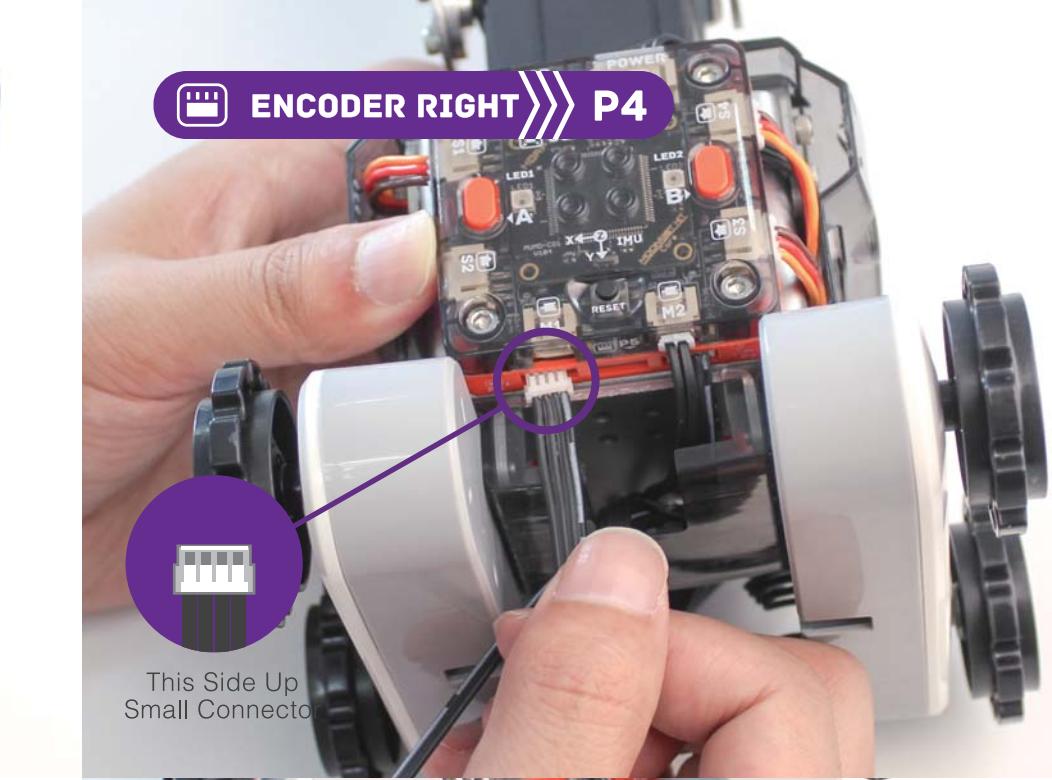
= 2PIN | 18CM

= 4PIN | 18CM





🎥 ENCODER RIGHT ➞ P4



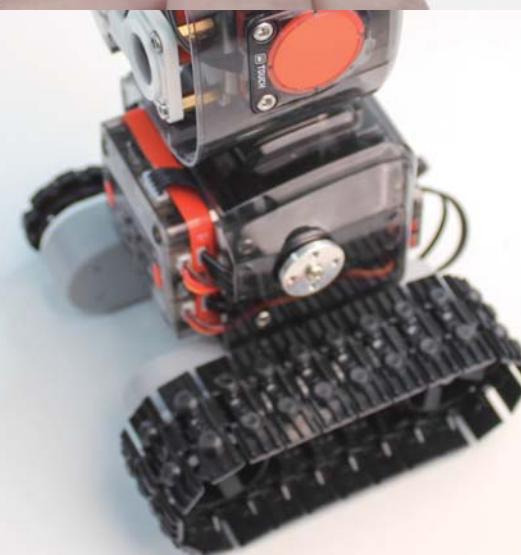
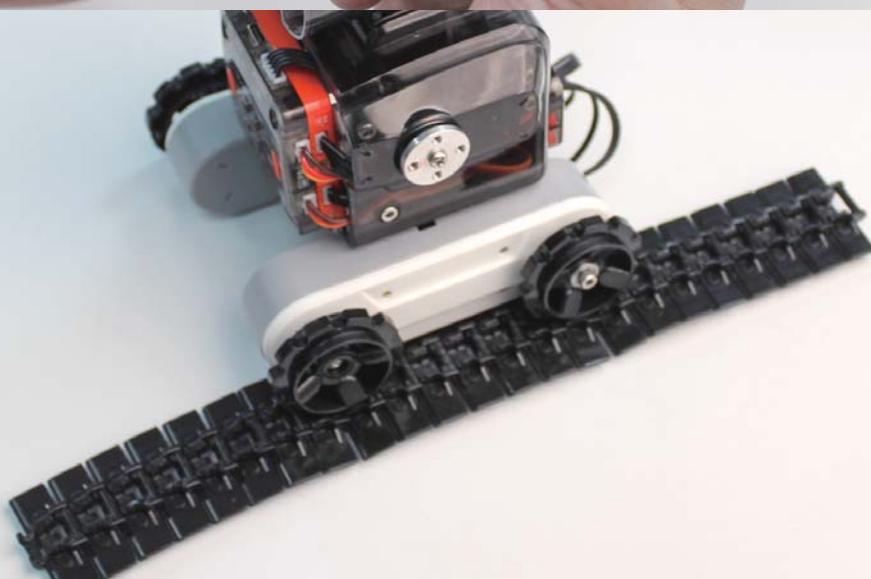
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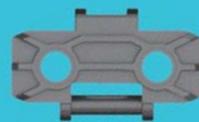
X23



X46



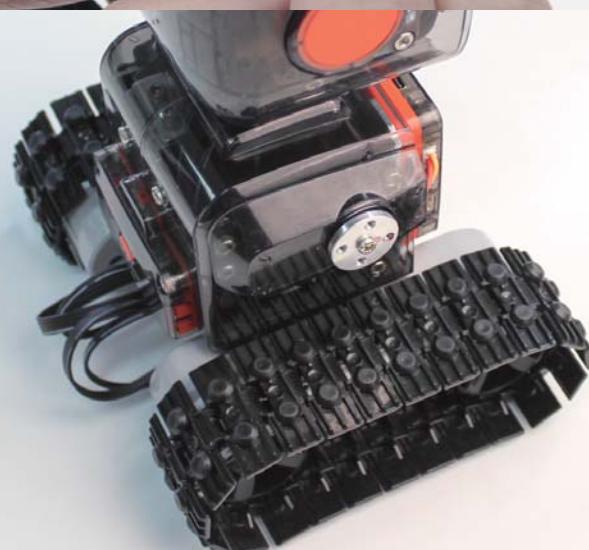
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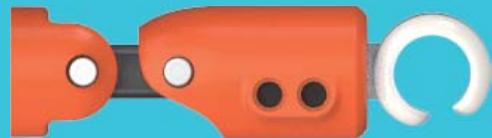
X23



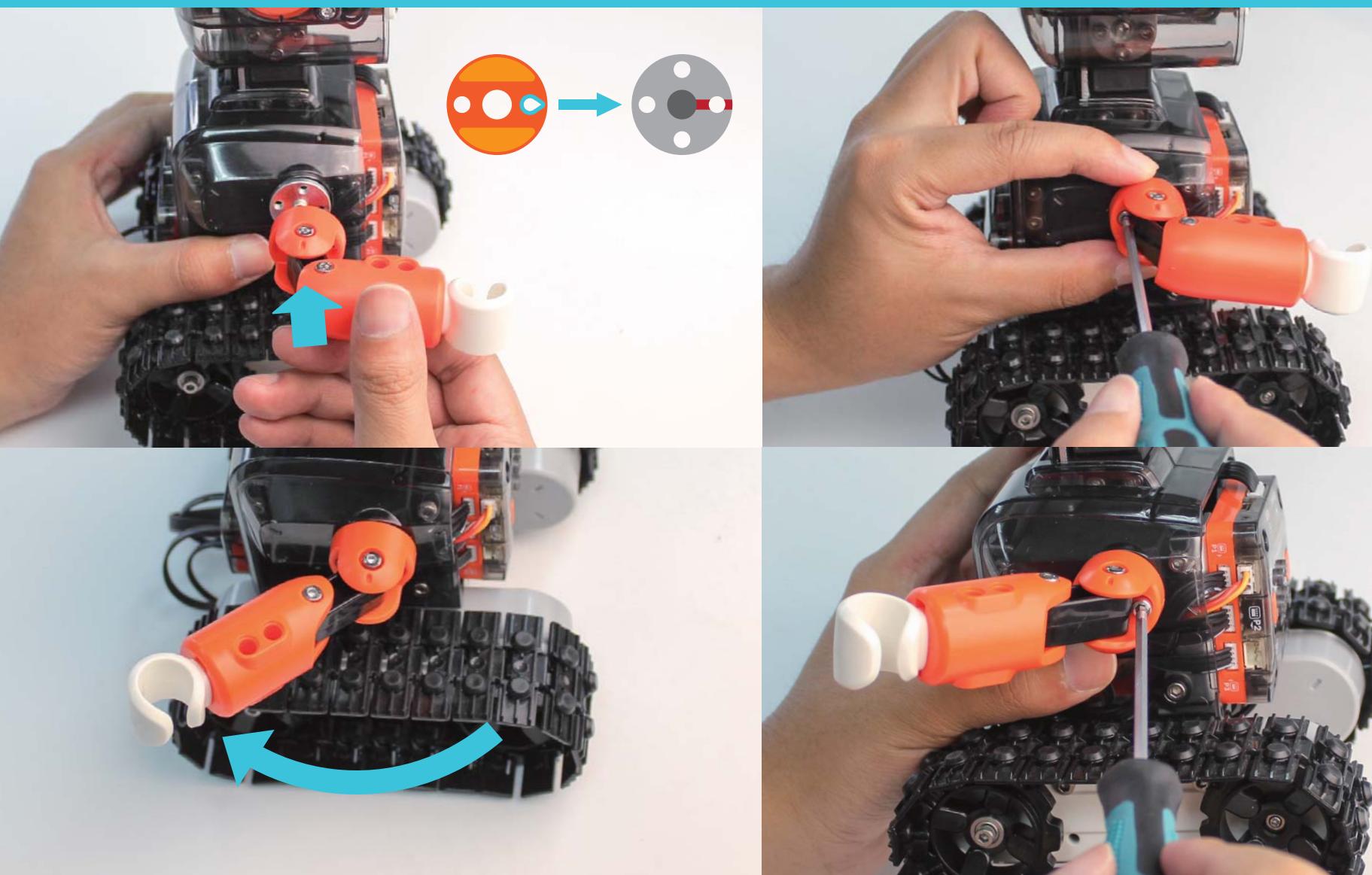
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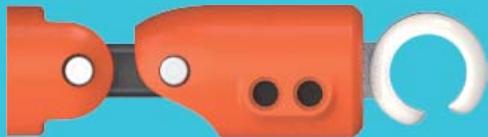
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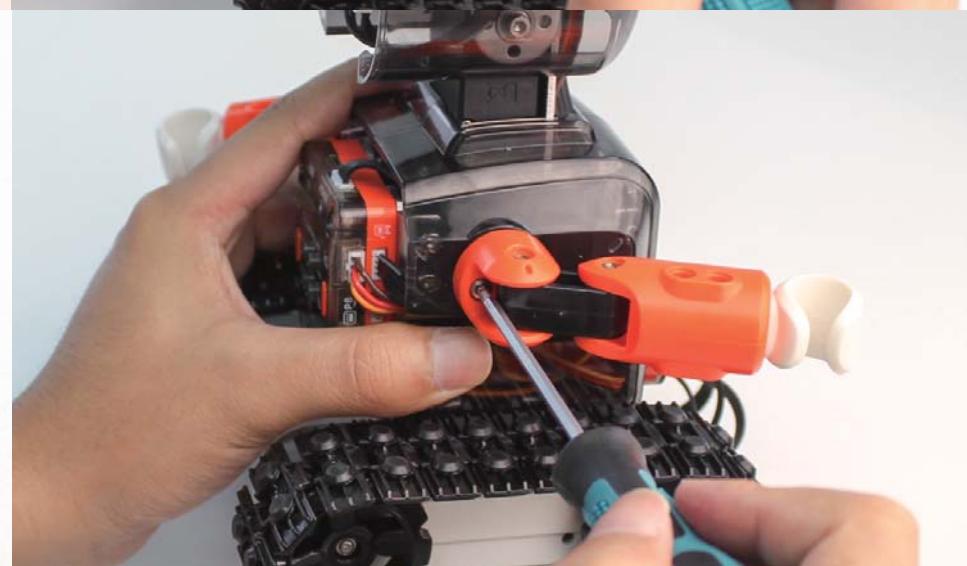
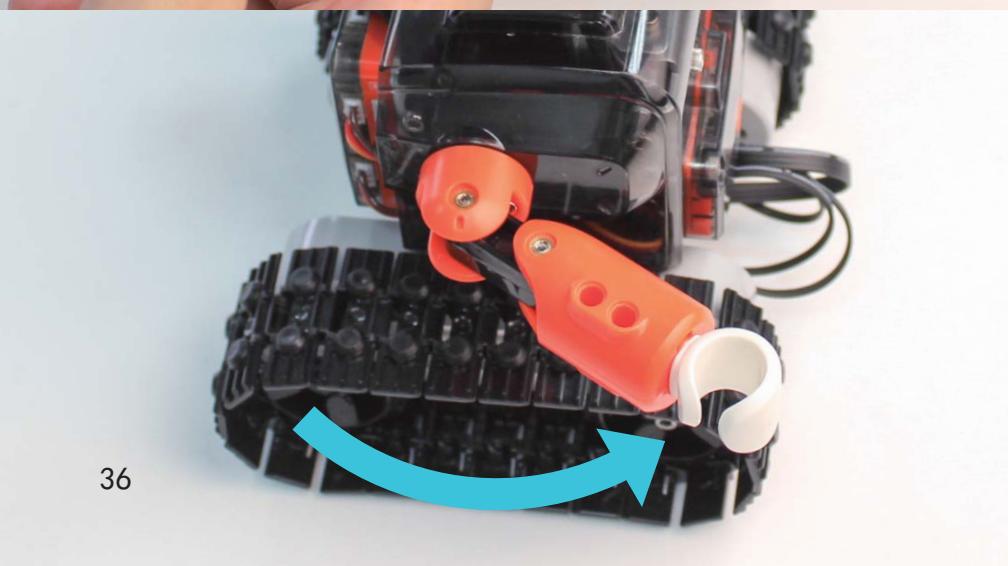
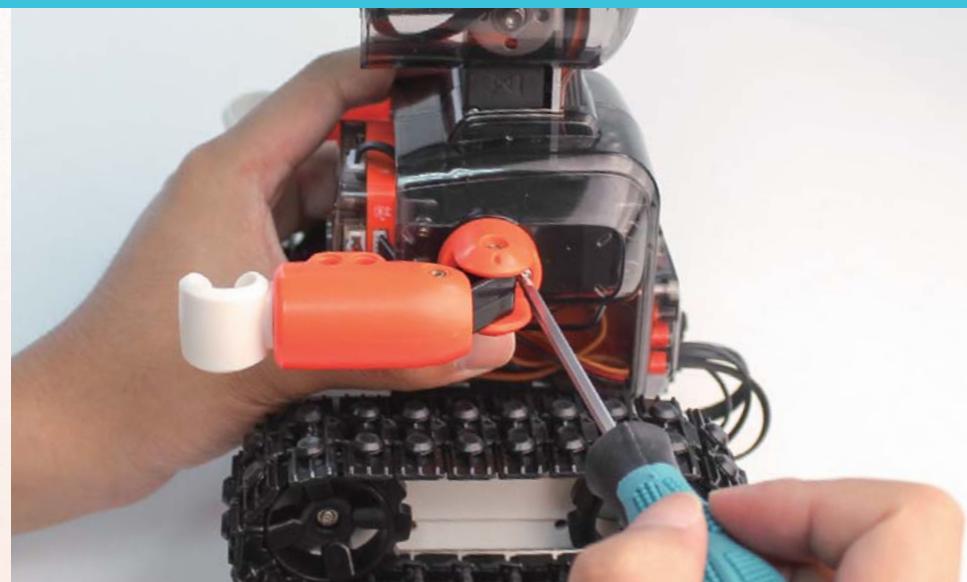
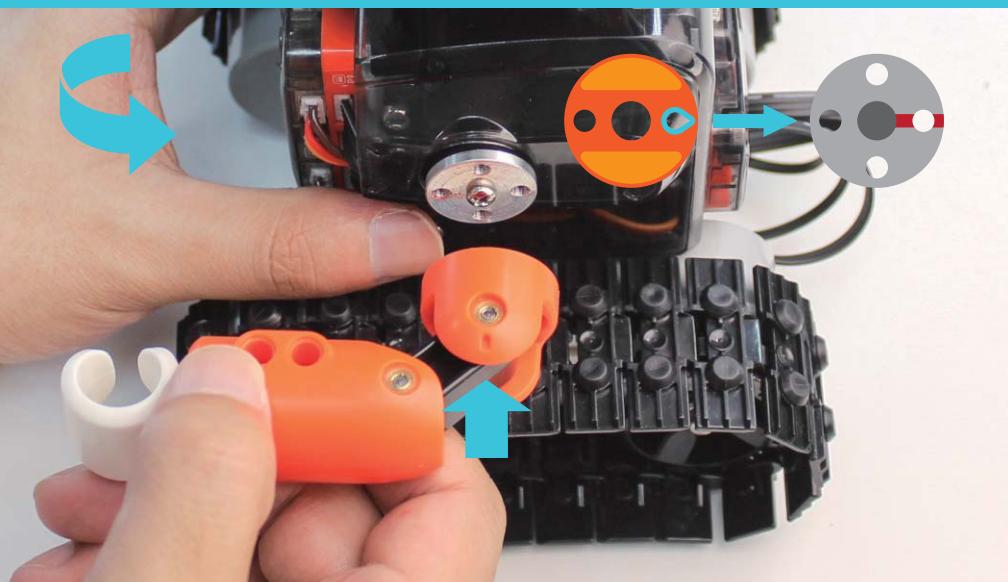
X2



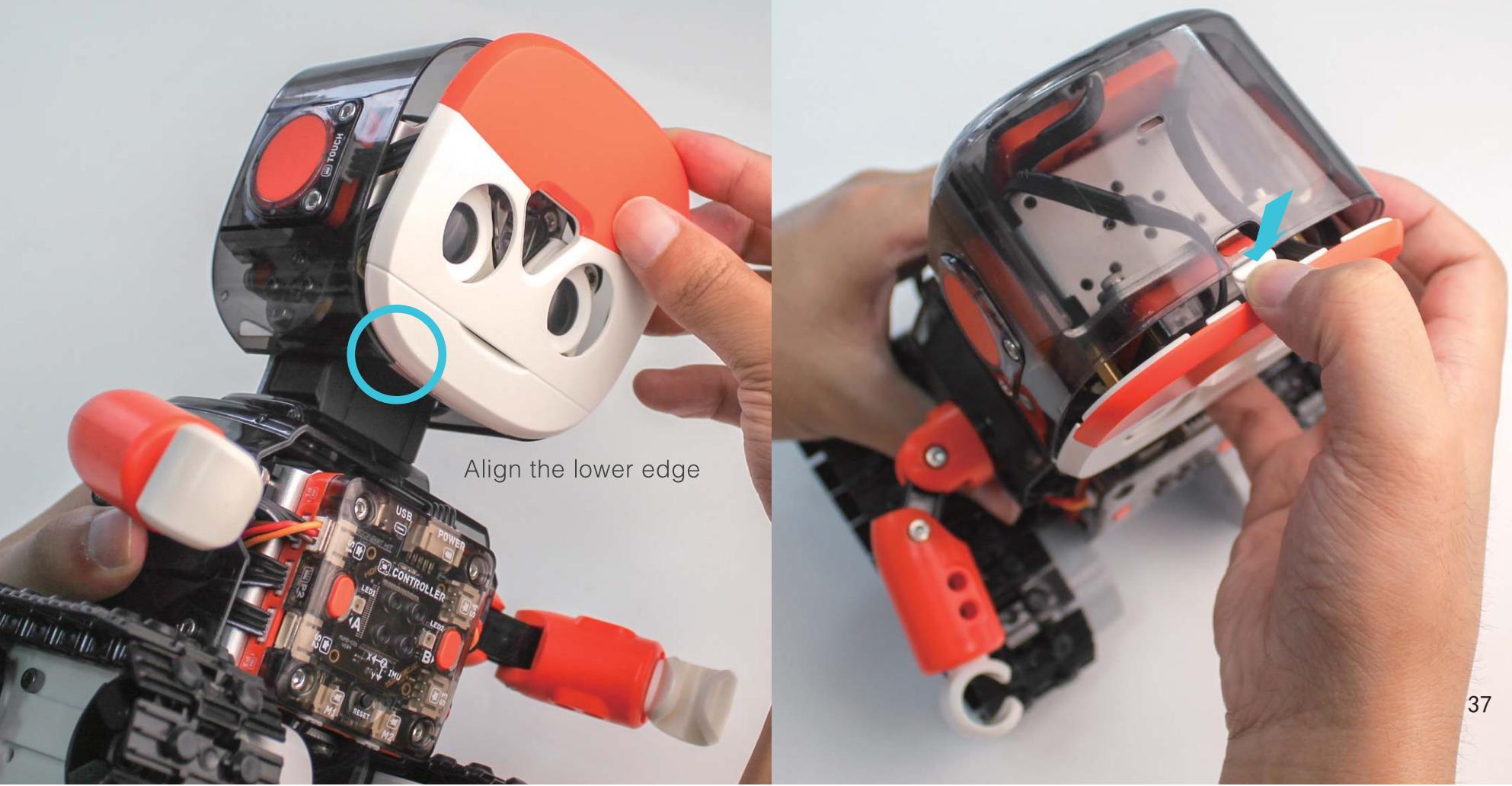
26



M3X4
X2

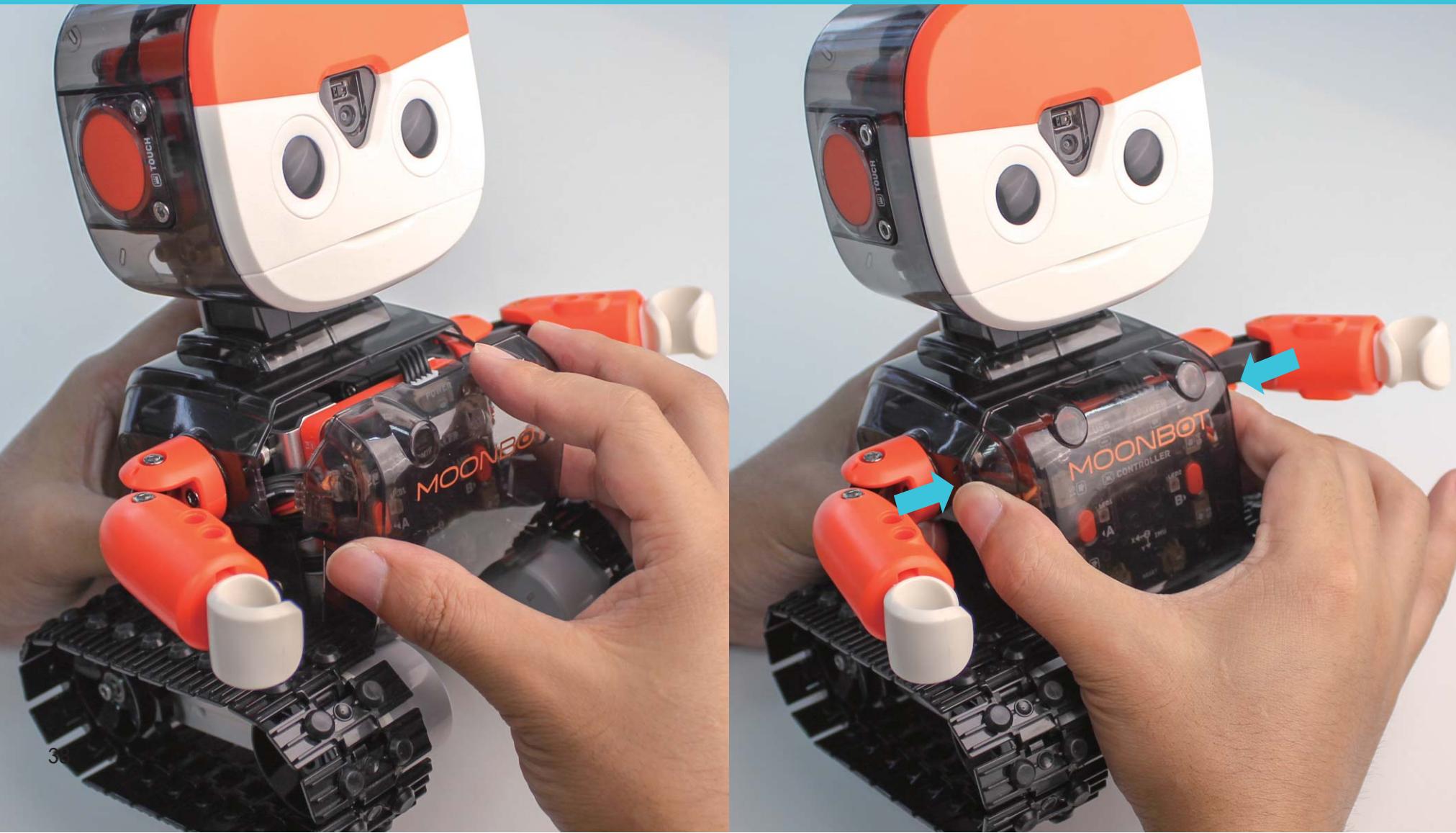
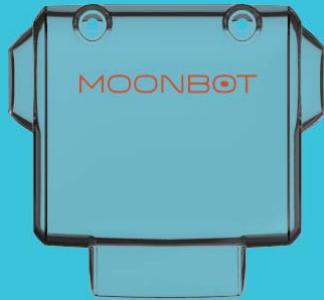


27



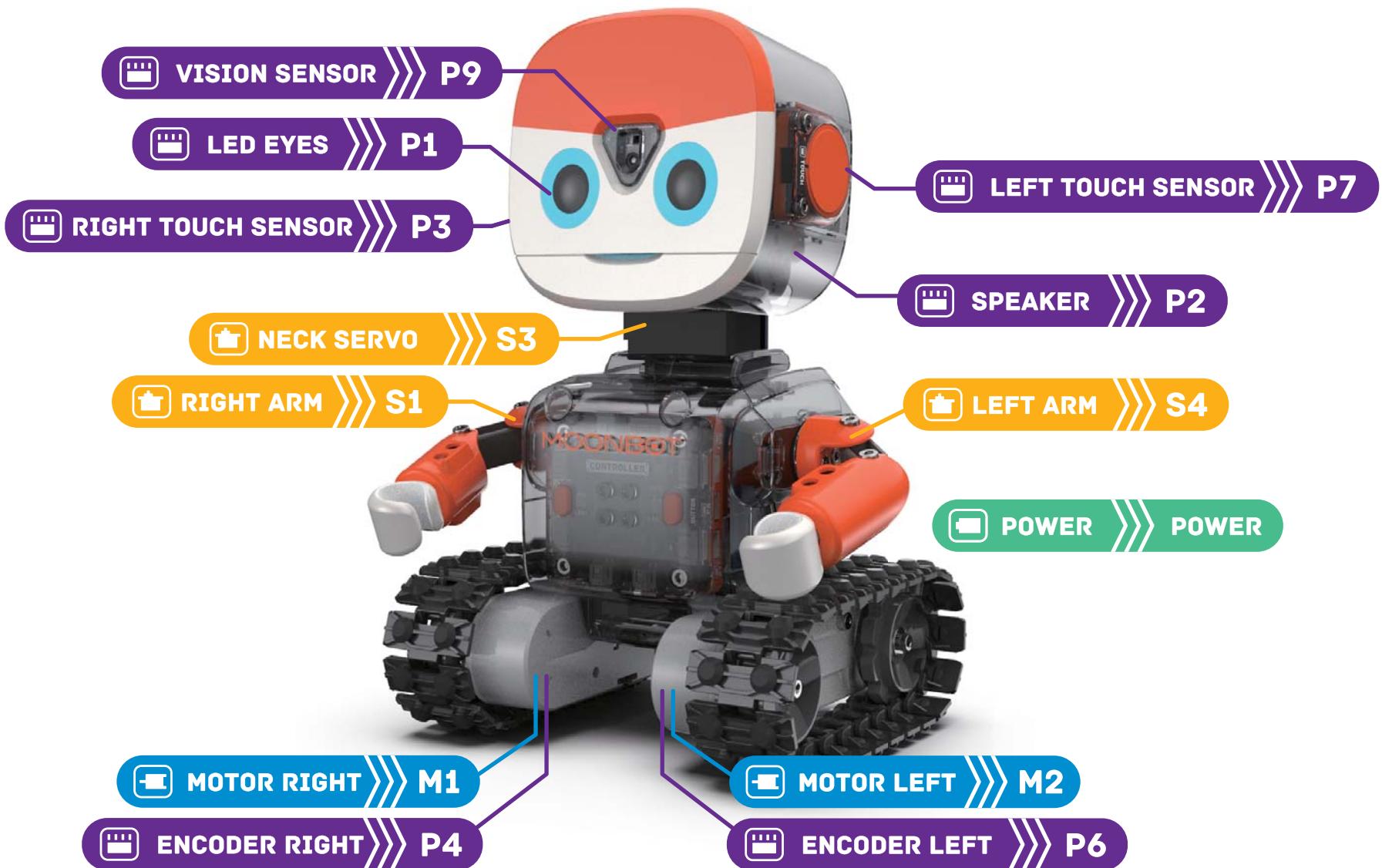
Align the lower edge

28



CHECK CONNECTIONS

Double check the wiring of each module in this figure, or your MoonBot might not work properly.



QUICK PLAY

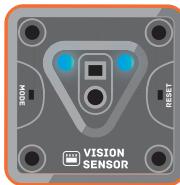
- 1 Press power button



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



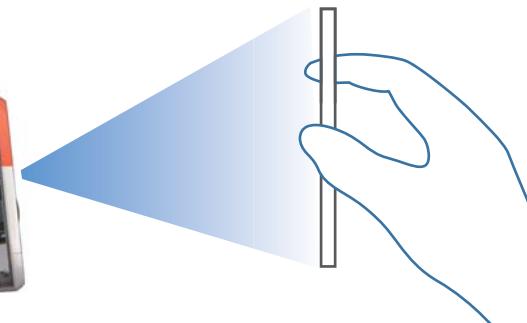
- 3 Use these vision cards to control your MoonBot



Flashing blue light
Target detected



Flashing red light
No target detected



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