

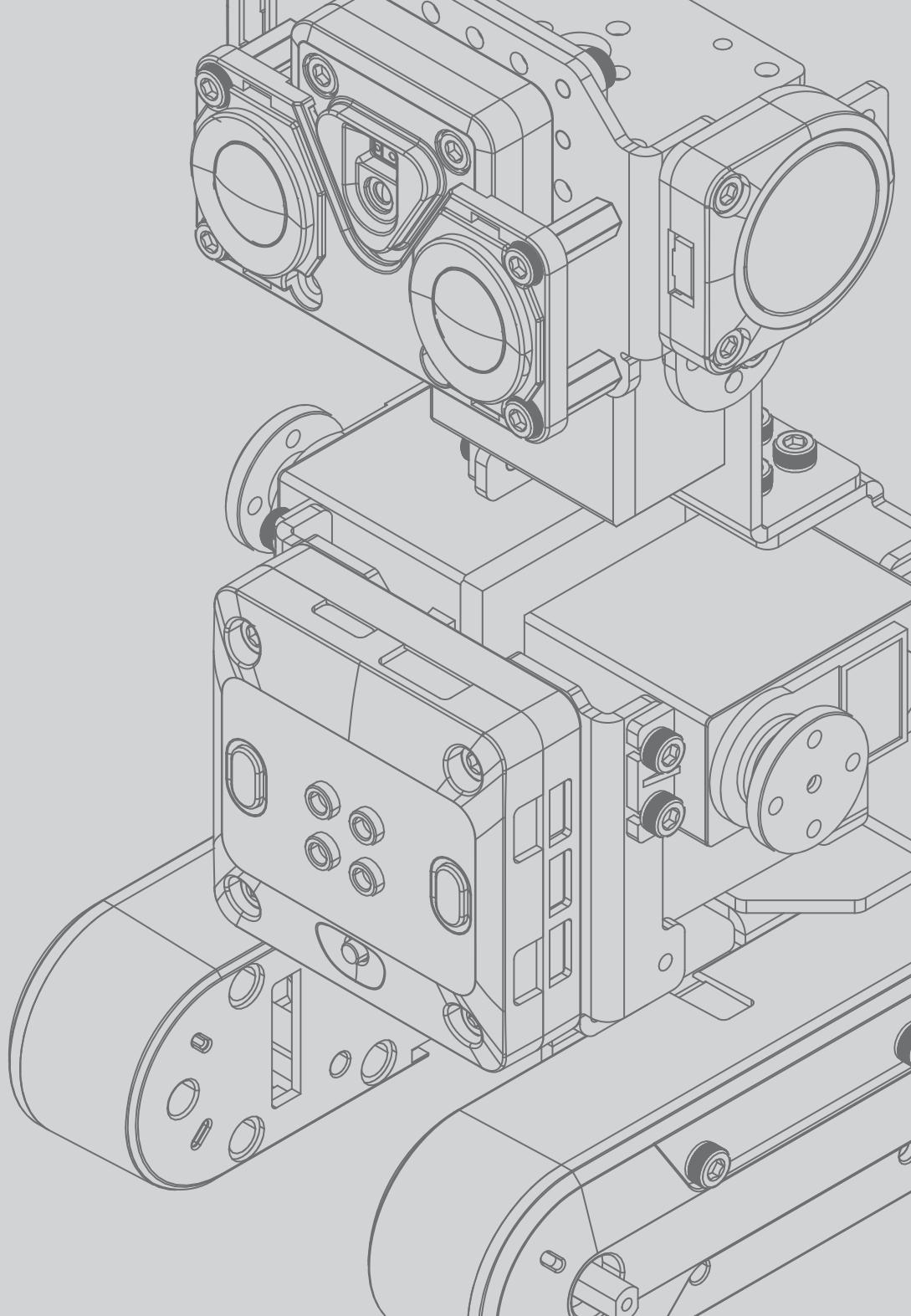
# MoonBot Manual

**248**

Pieces

**2.5h**

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.

# SYMBOLS & LEGEND



Flip viewpoints



Caution

## Screw Case

 M3X4	 M3X8	 M3X12	 COPPER COLUMN	 M3X28
 BEARING	 WASHER	 NUT	 R3035	 R3075

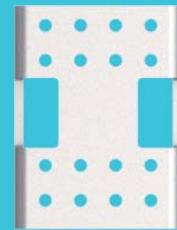
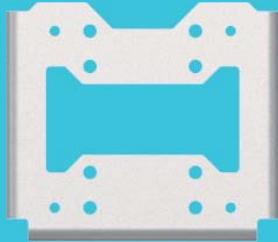


1:1



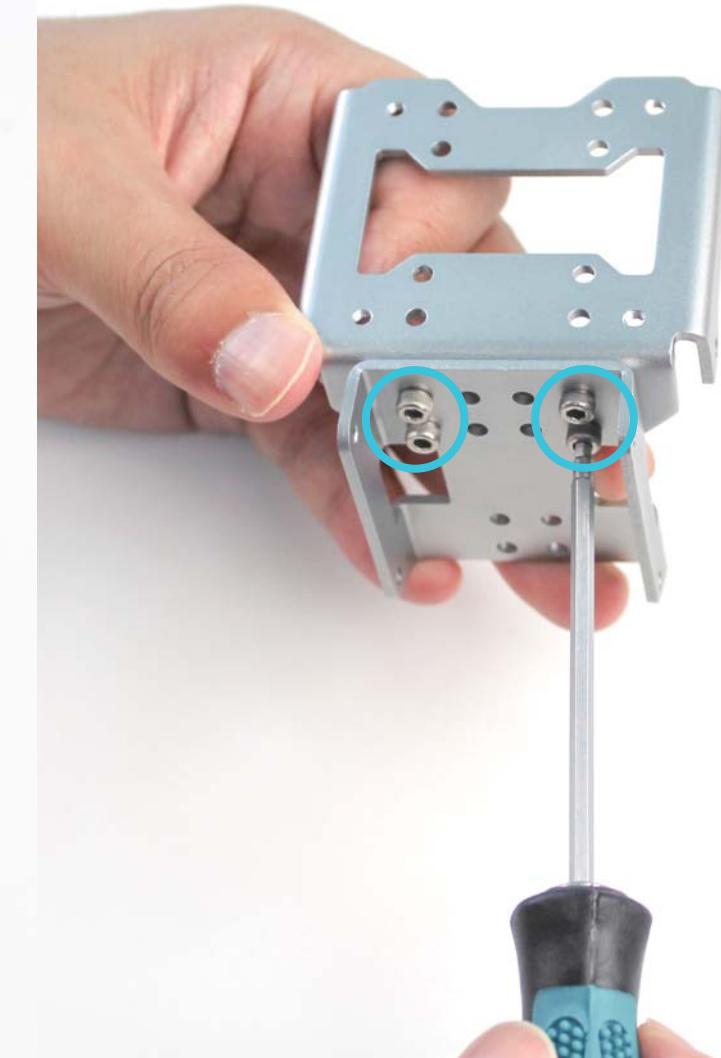
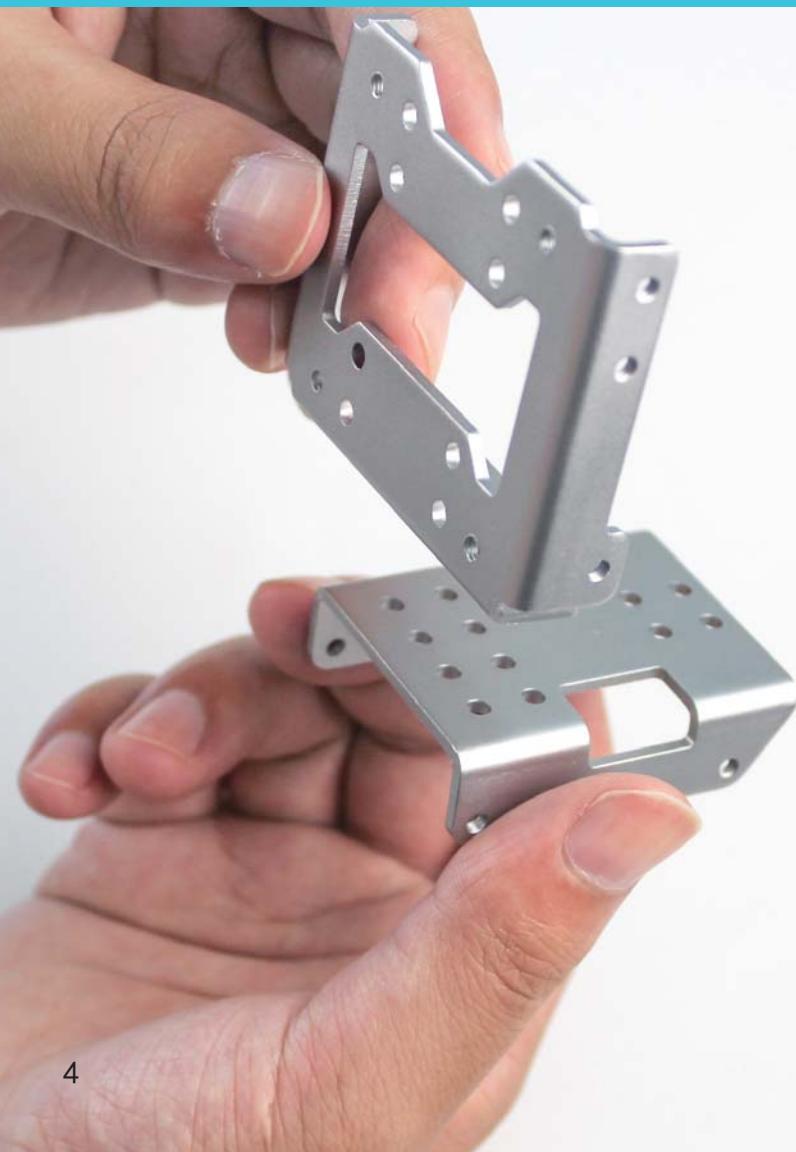
Please compare the length of the screw as shown in Figure 1:1.

1

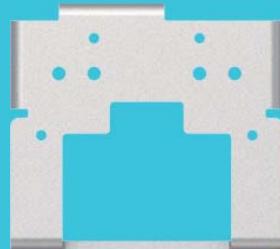


M3X4

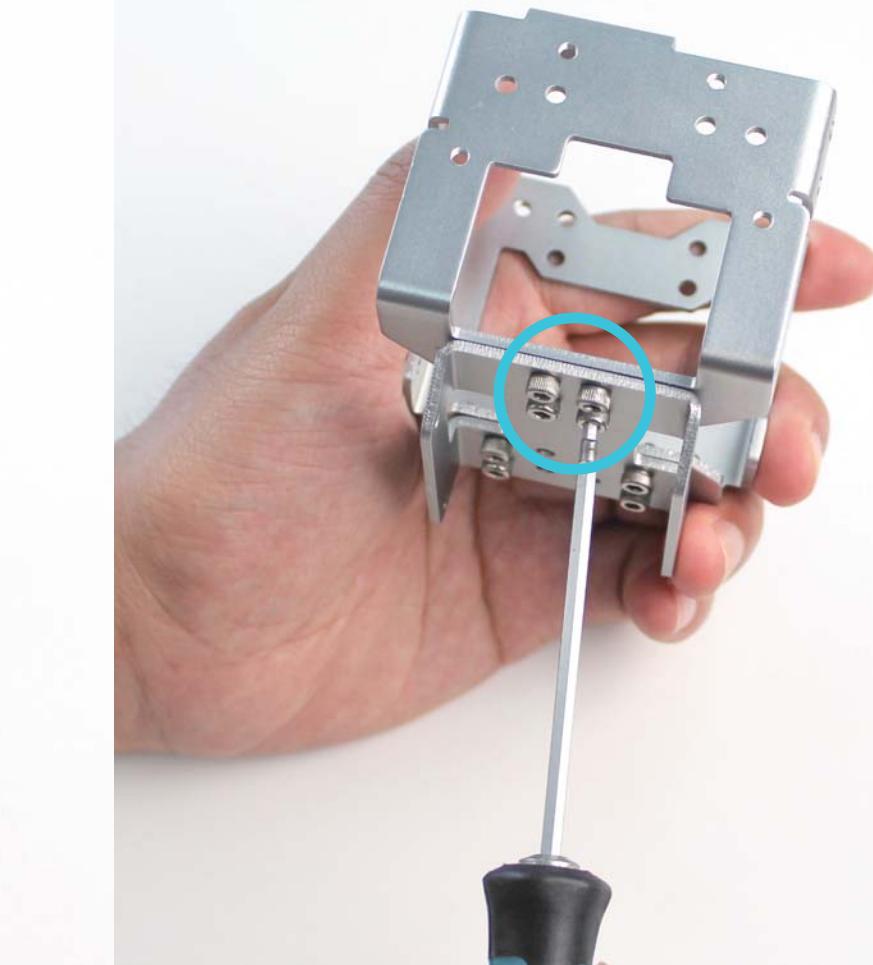
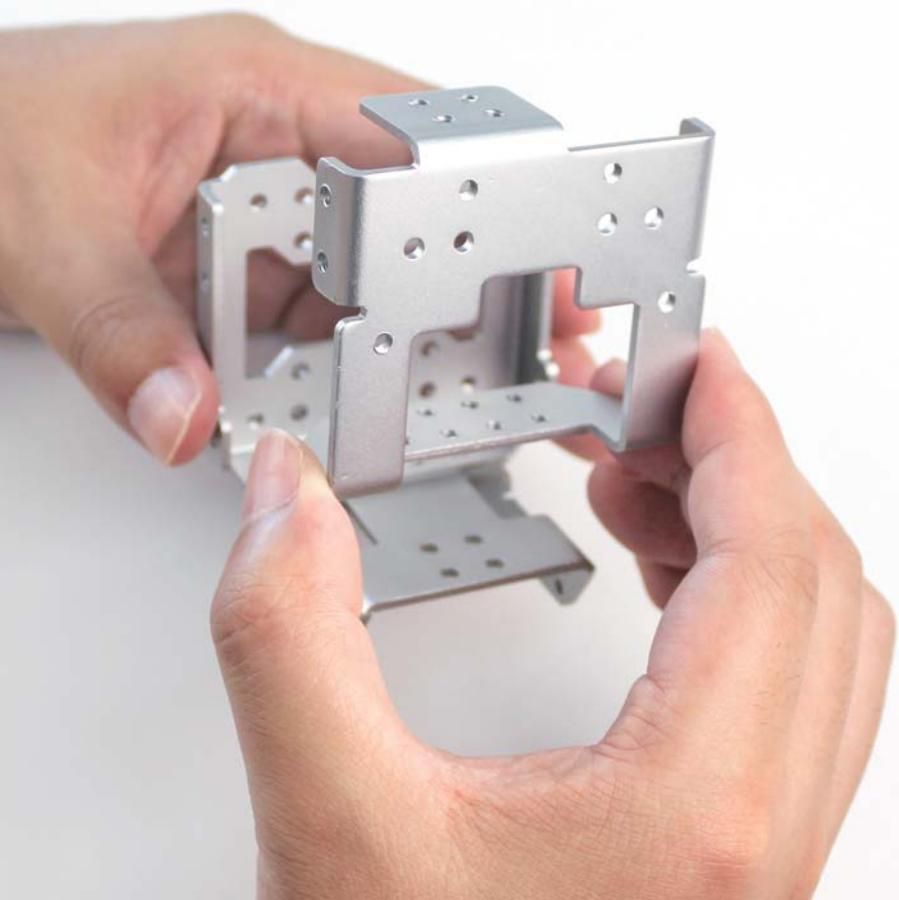
X4



2



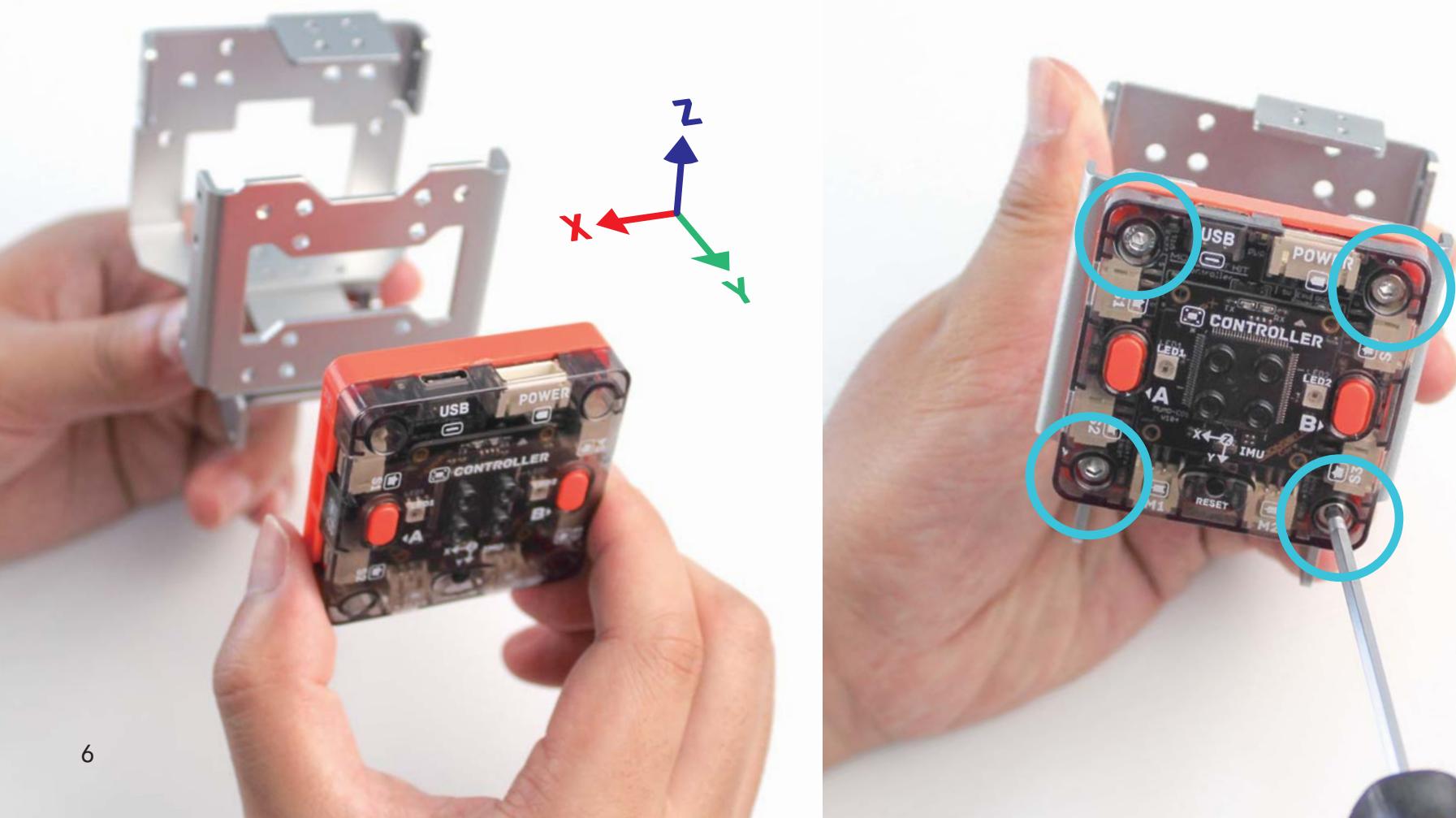
×4



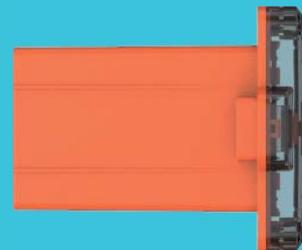
3



X4



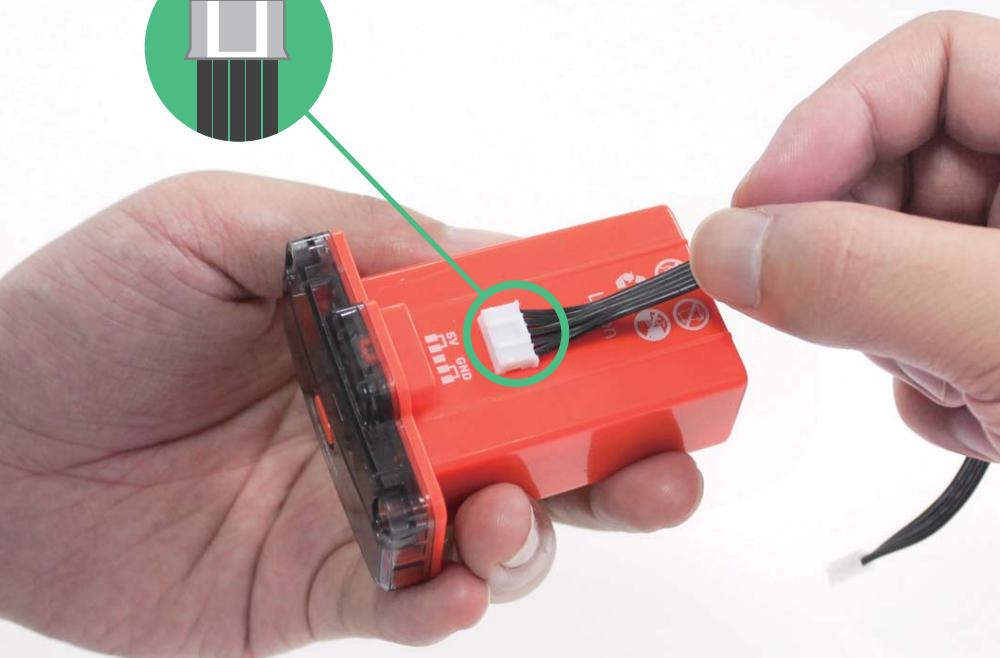
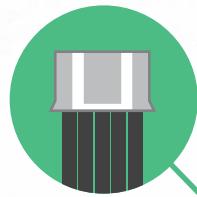
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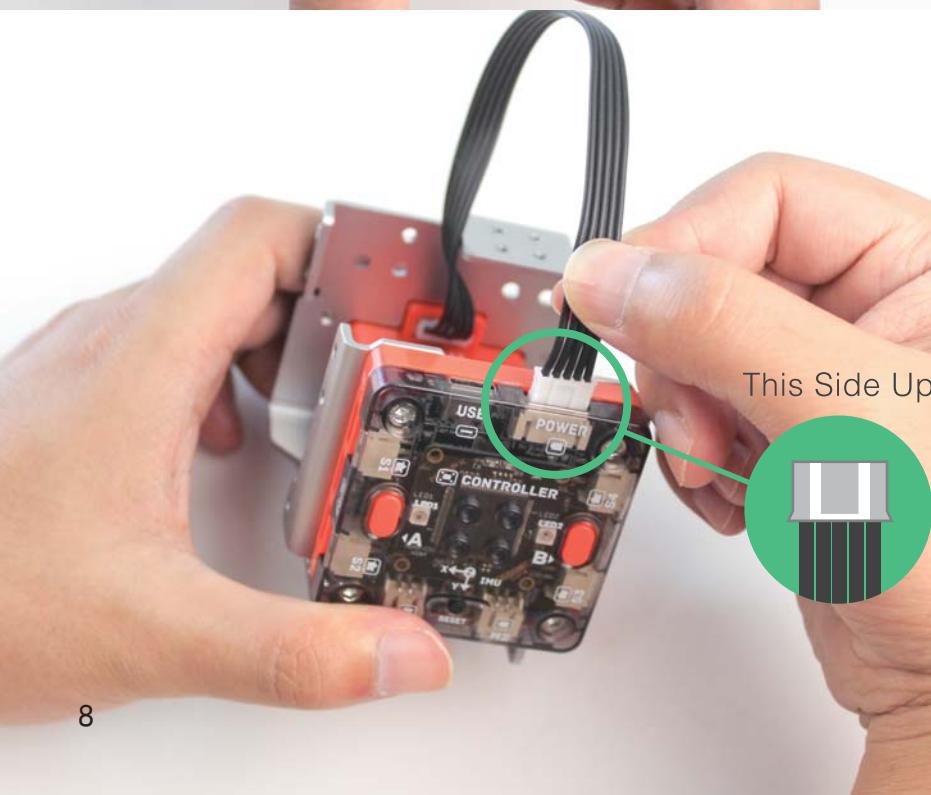
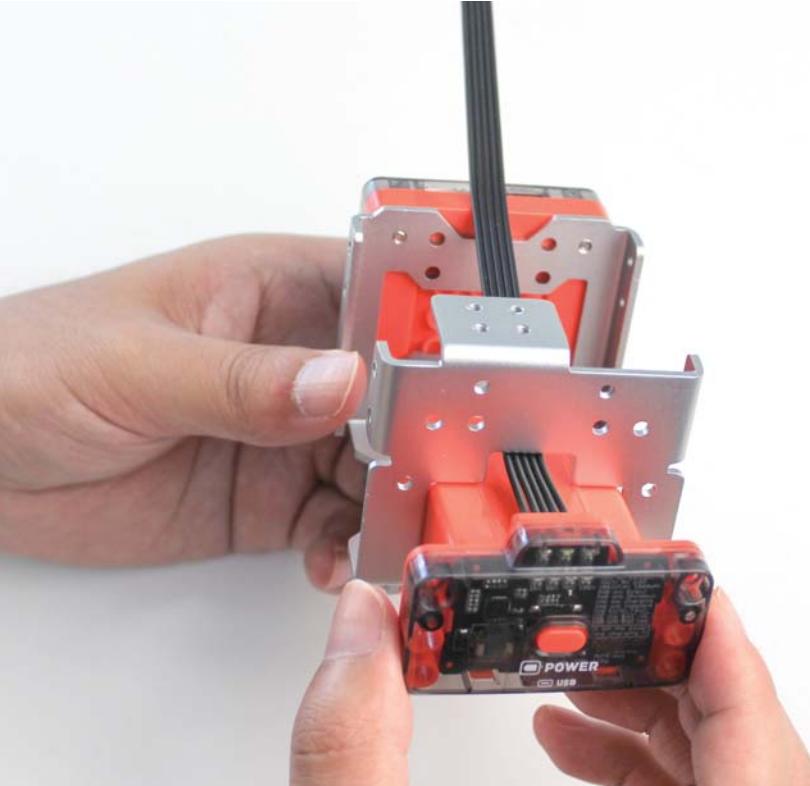


X2



This Side Up





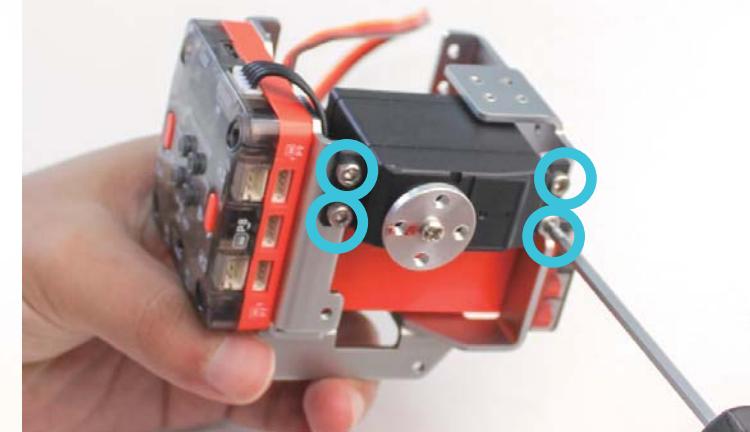
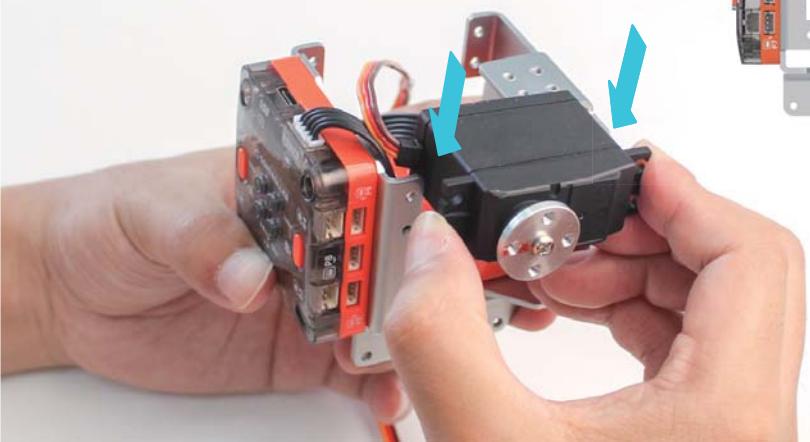
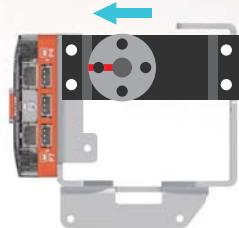
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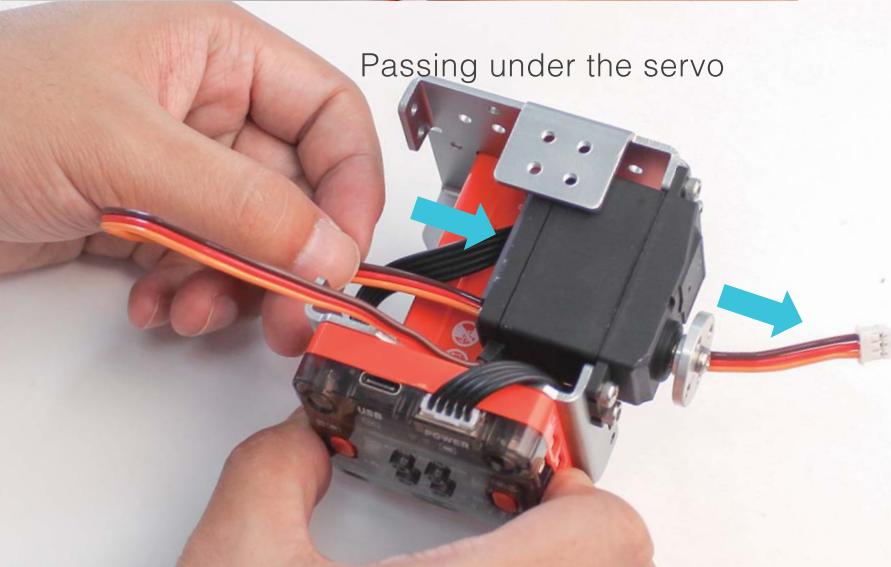
 M3X4

X4

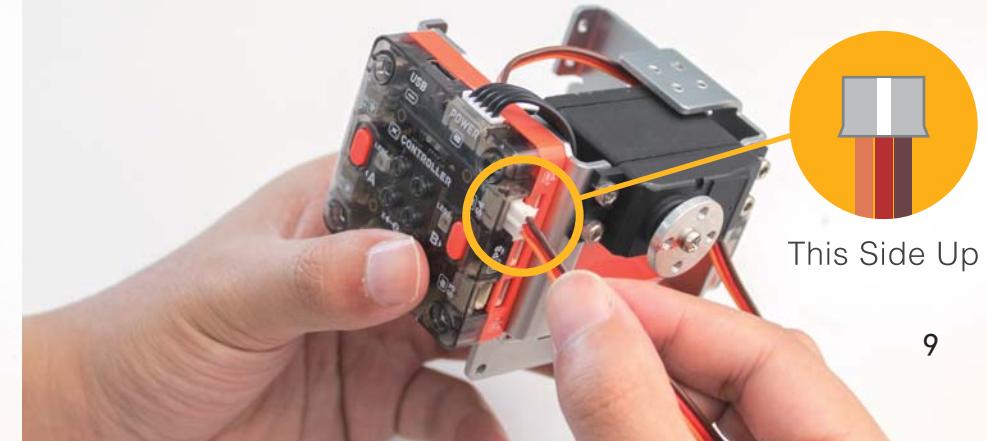
Please keep the servo arm close to the controller side



Passing under the servo



 LEFT ARM »» S4

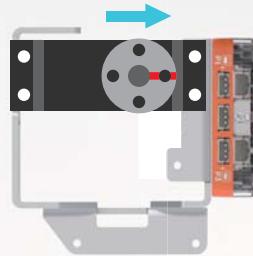


6

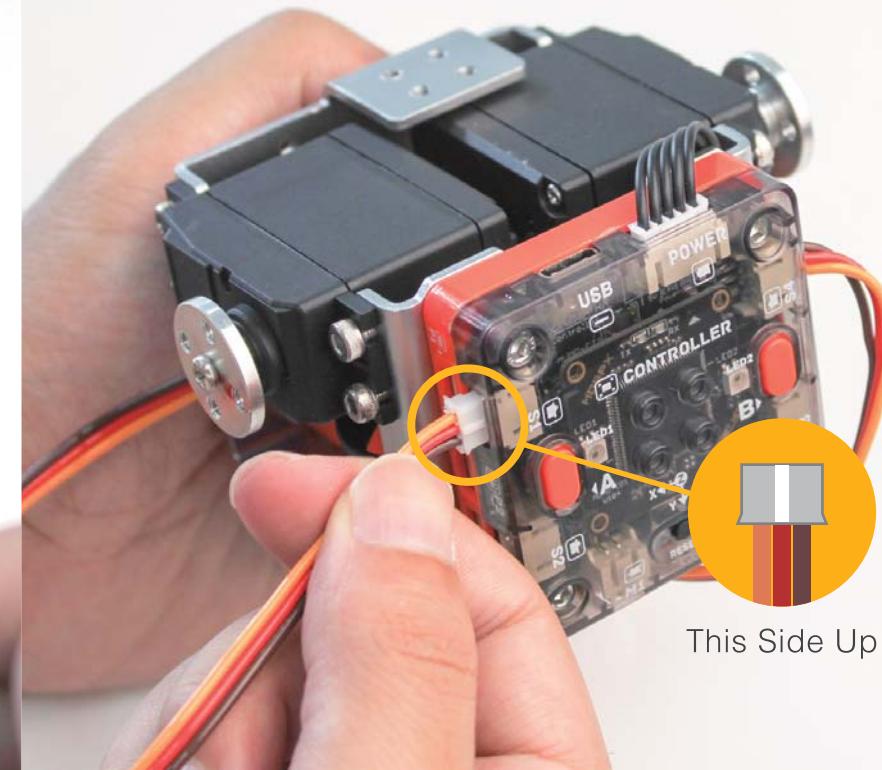
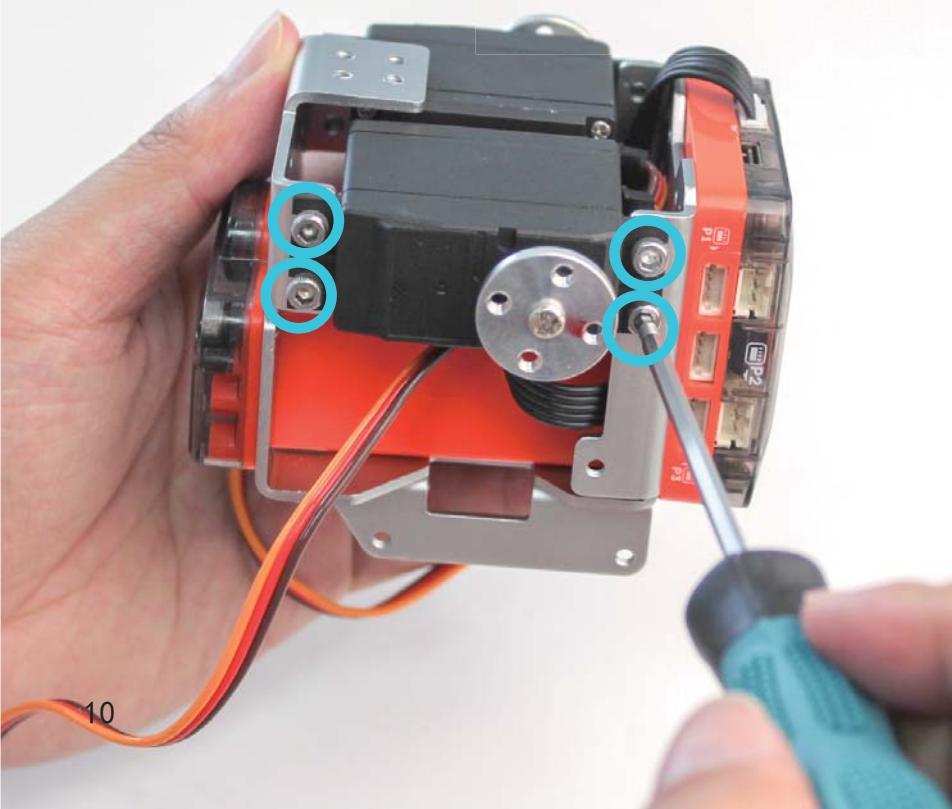


M3X4  
X4

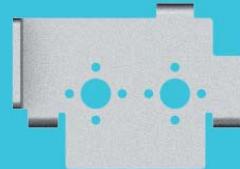
X4



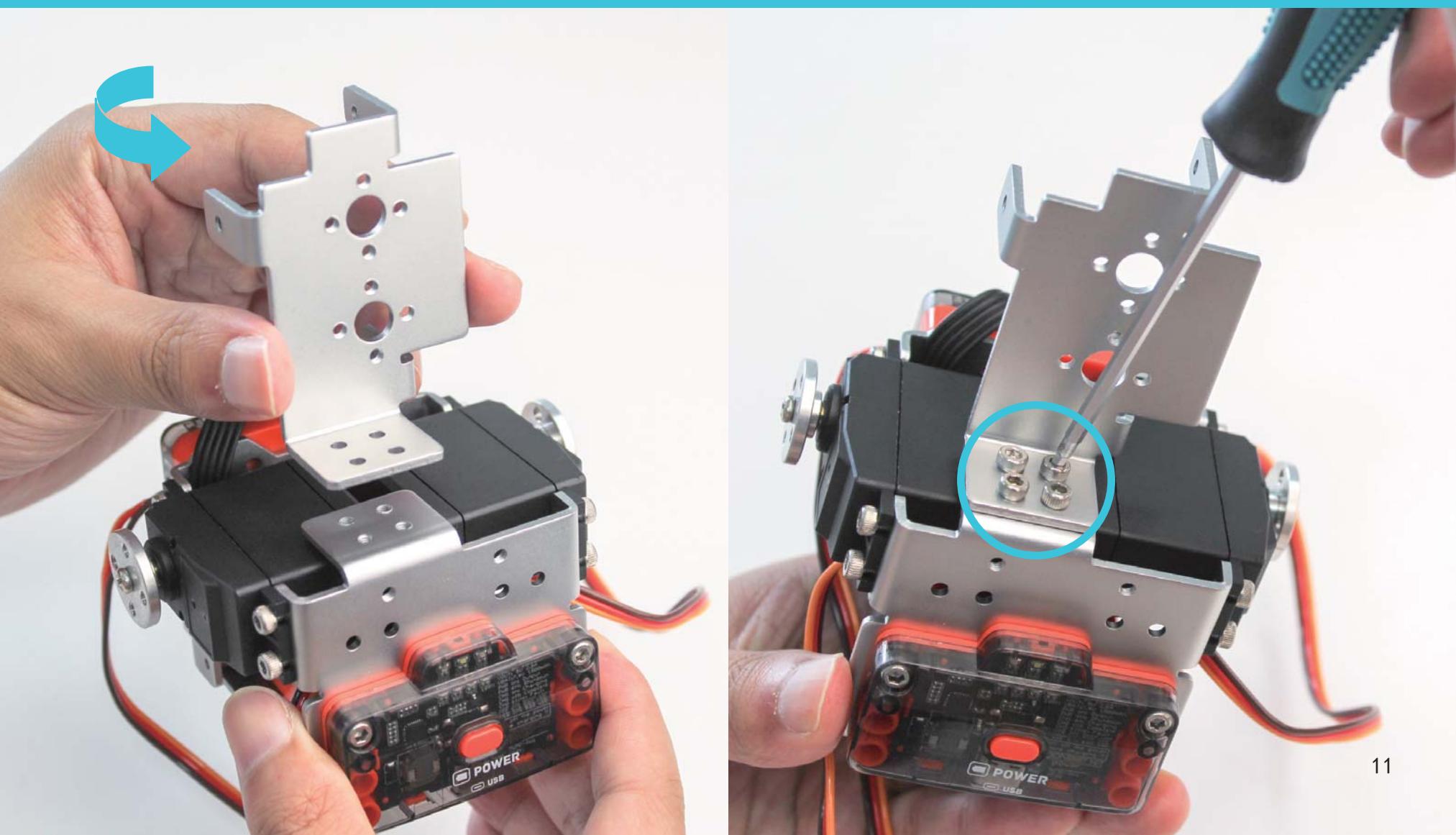
RIGHT ARM >>> S1



7



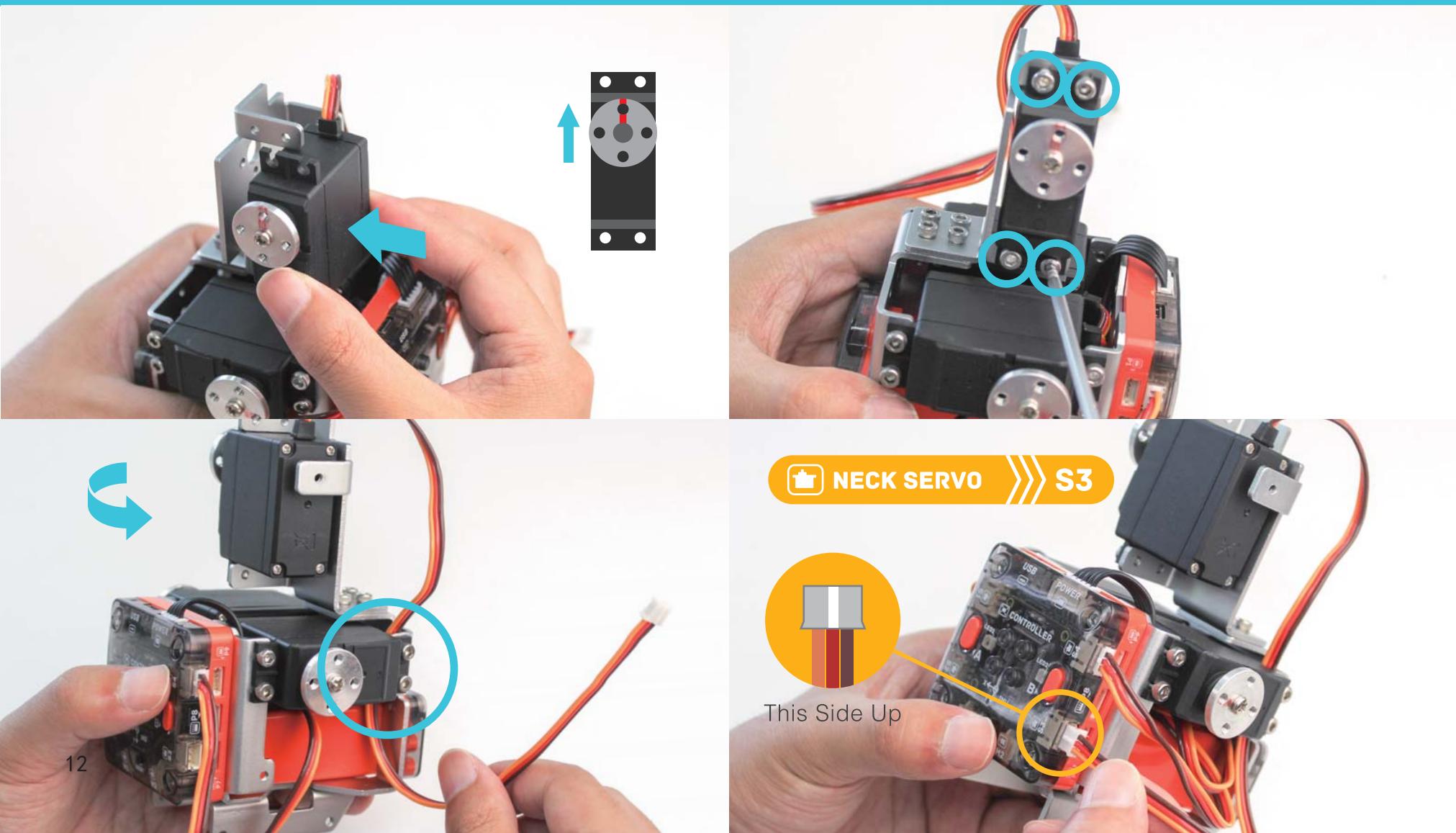
X4



8



X4



9

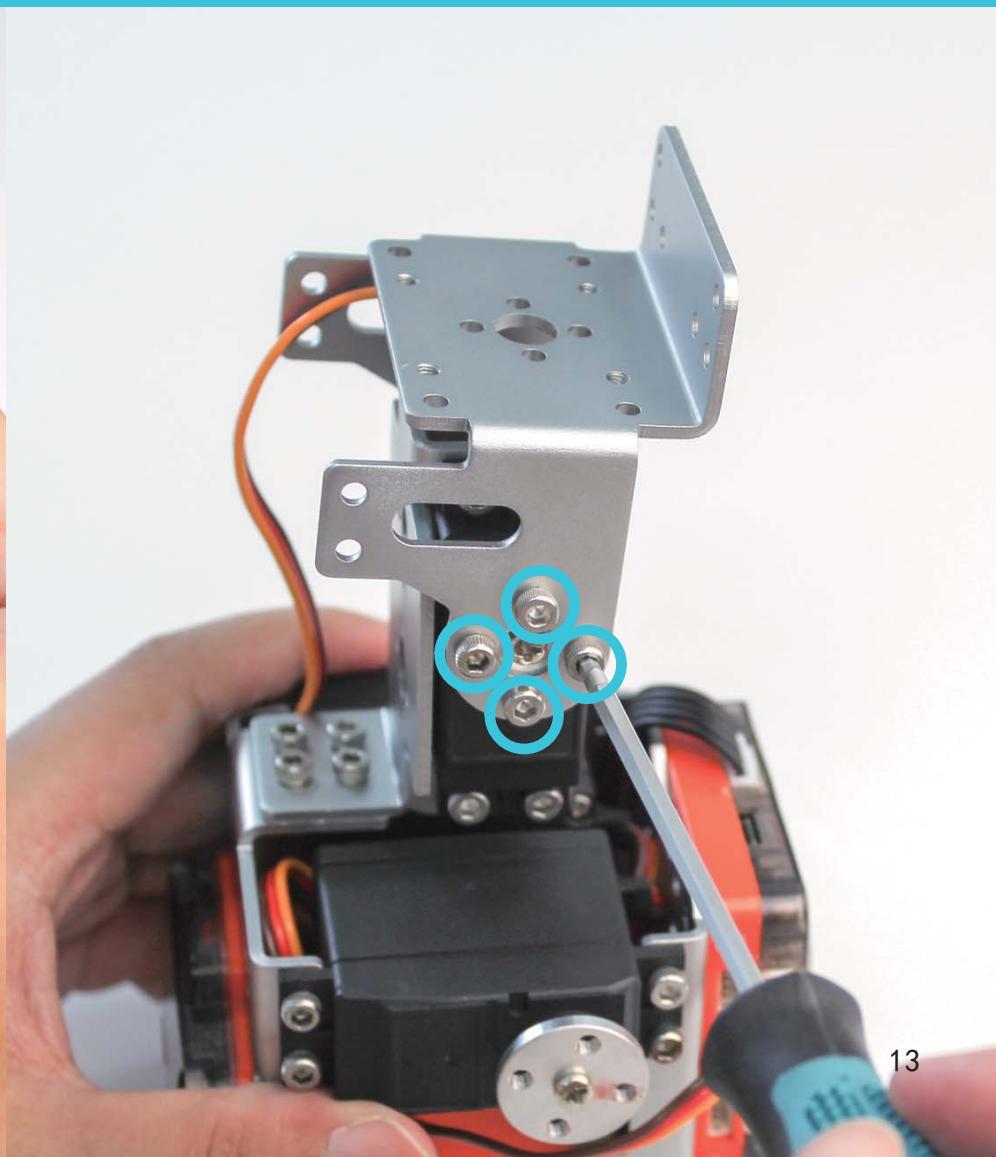
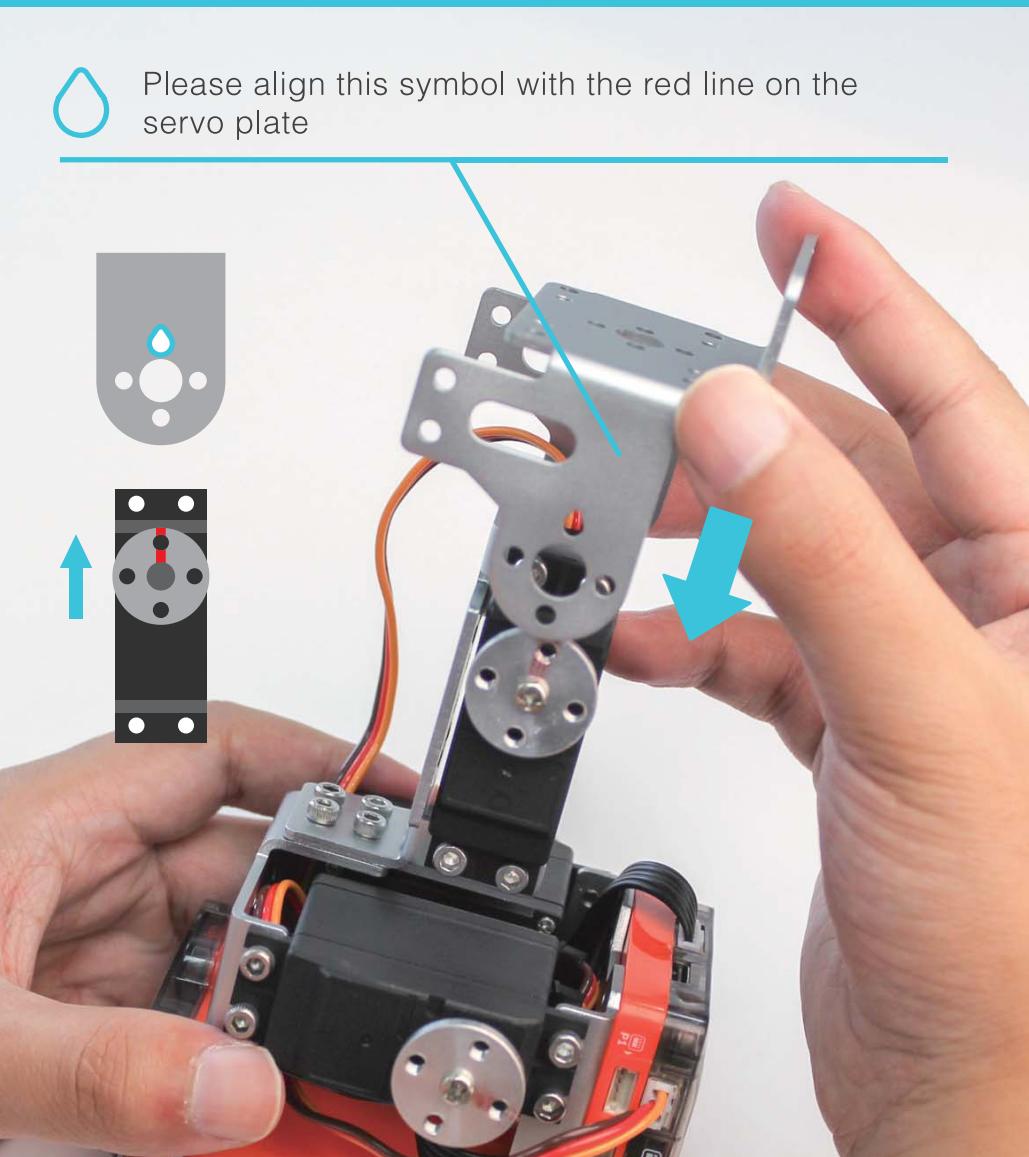


M3X4

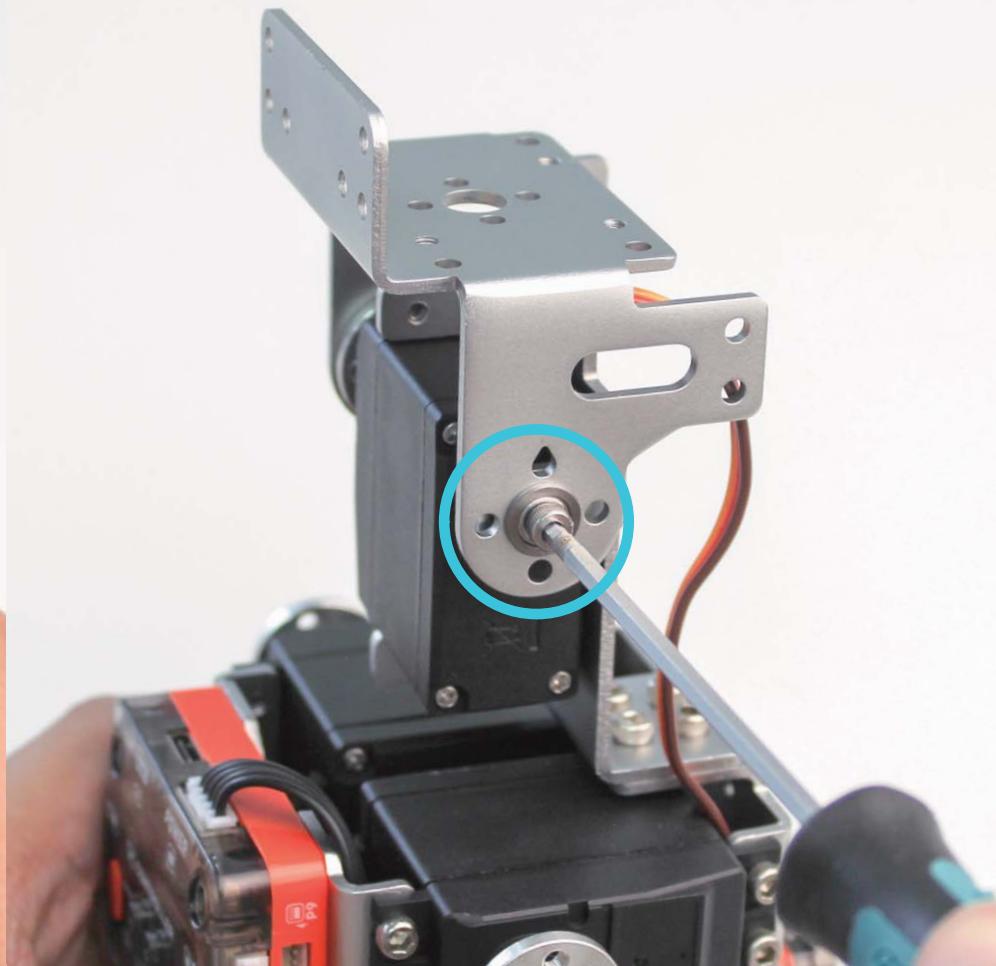
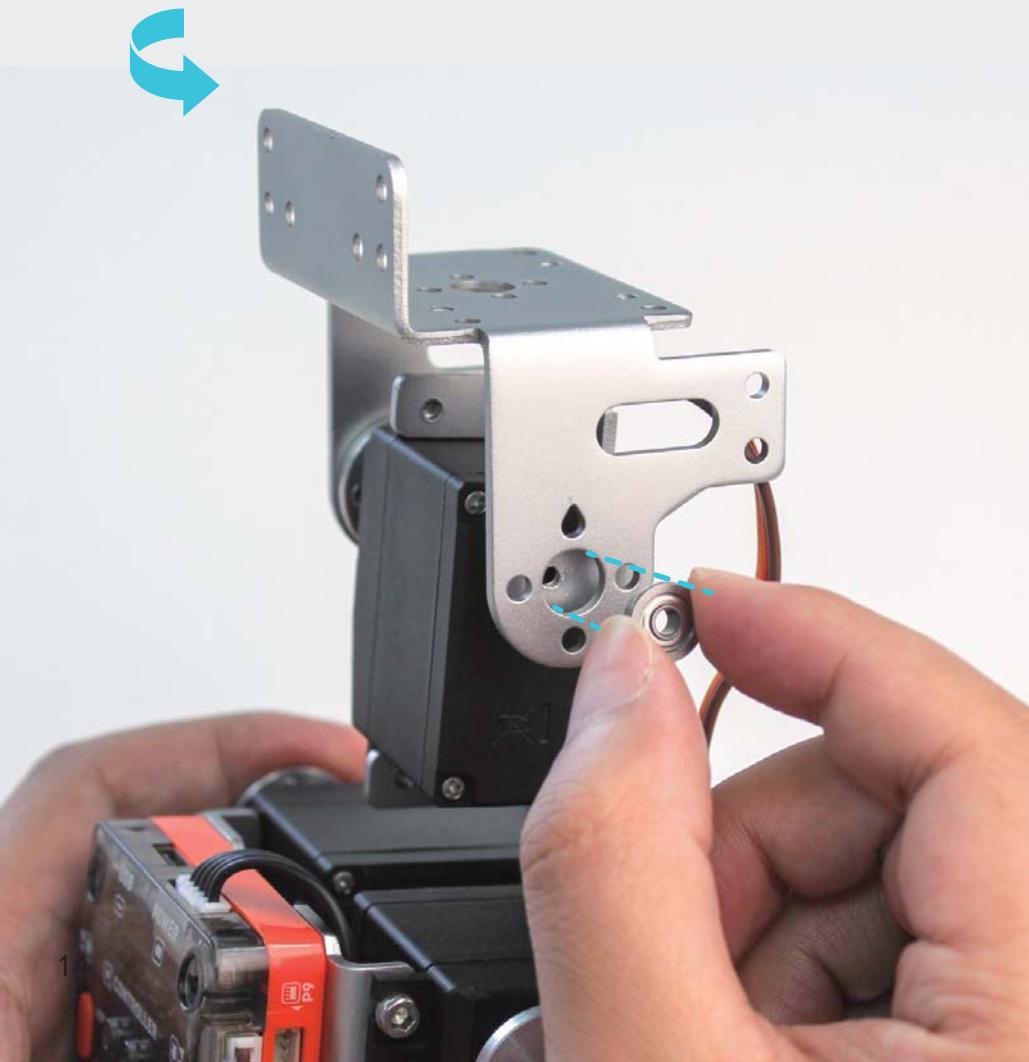
X4



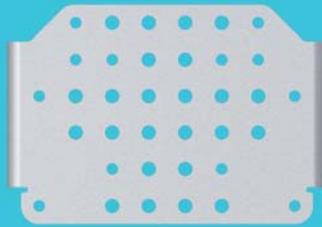
Please align this symbol with the red line on the servo plate



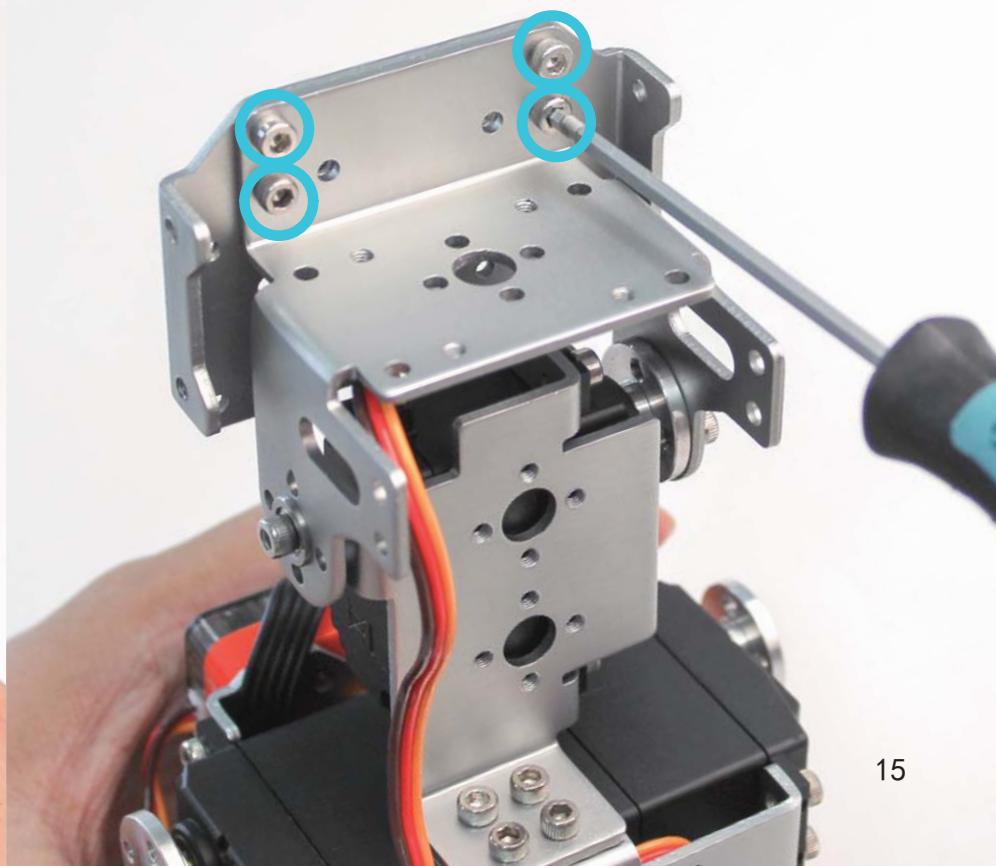
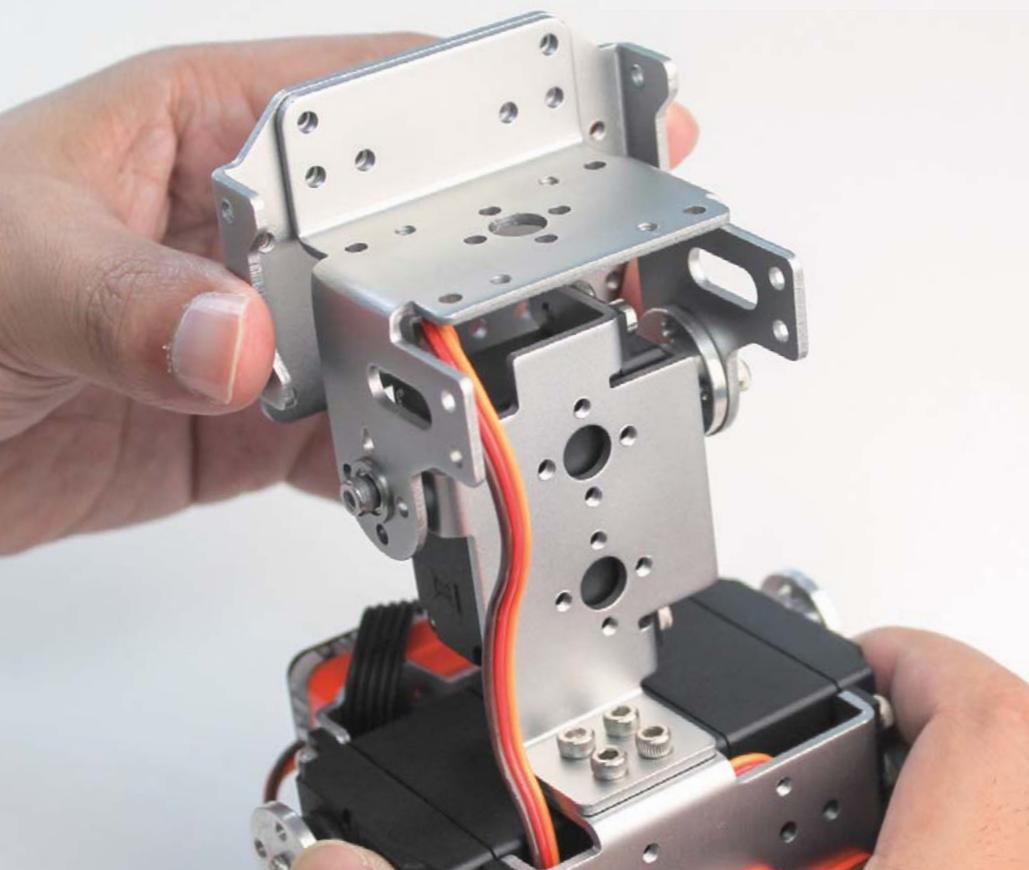
10



11



X4



12



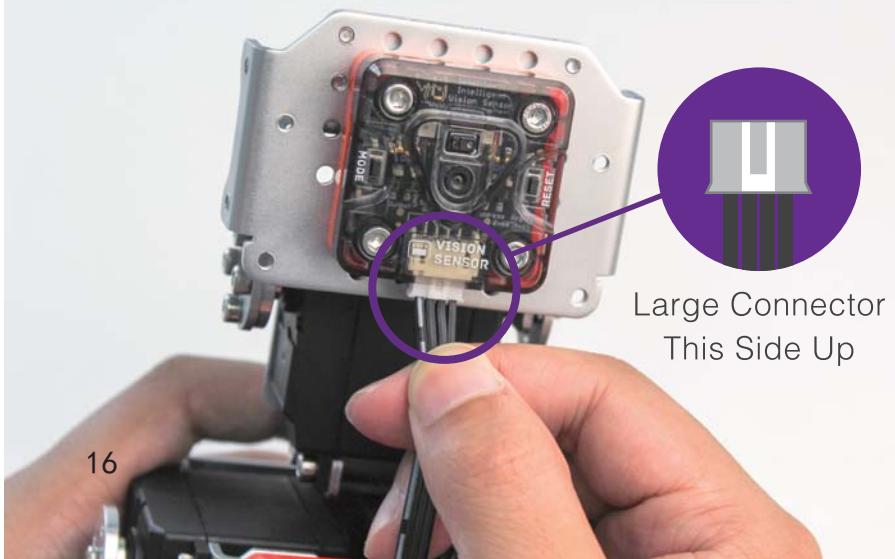
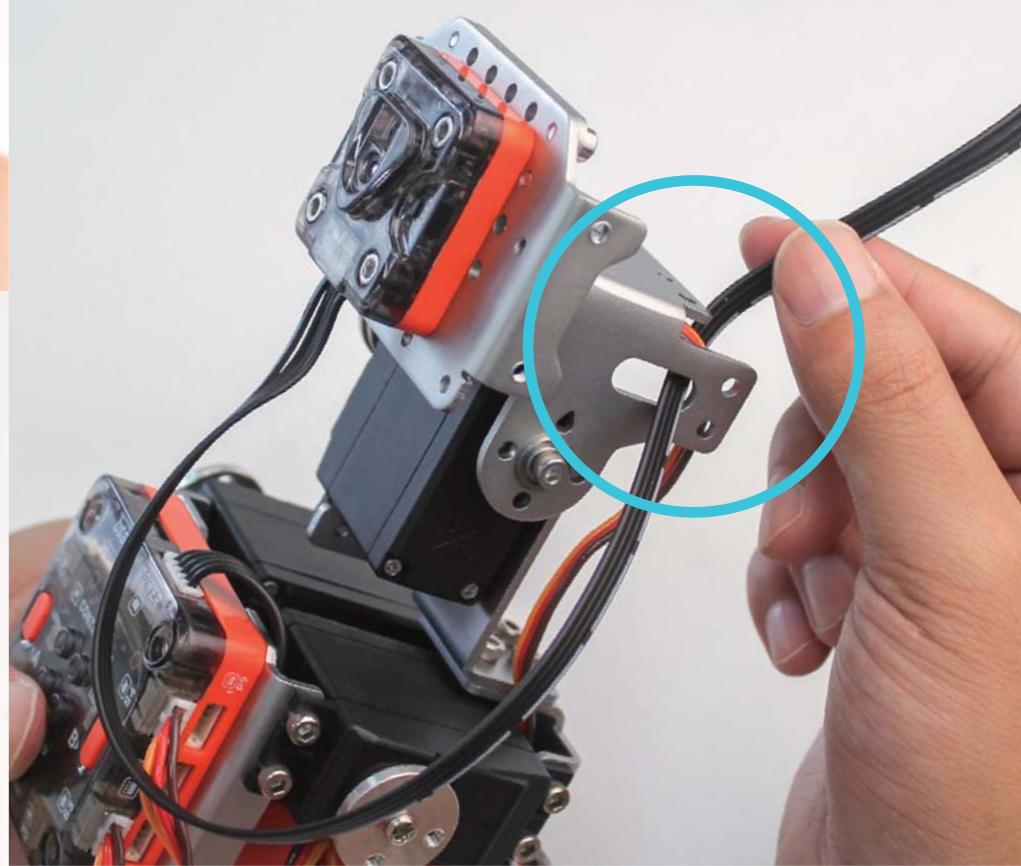
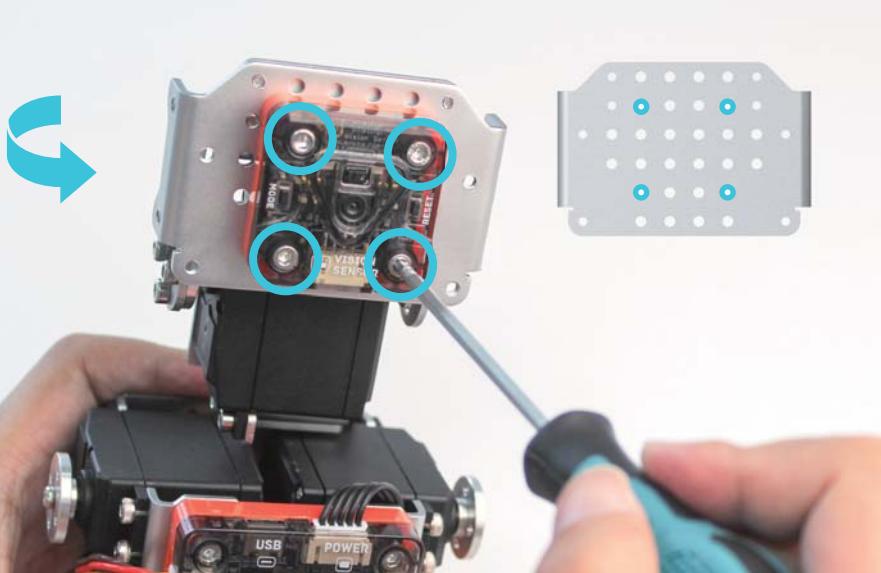
X2



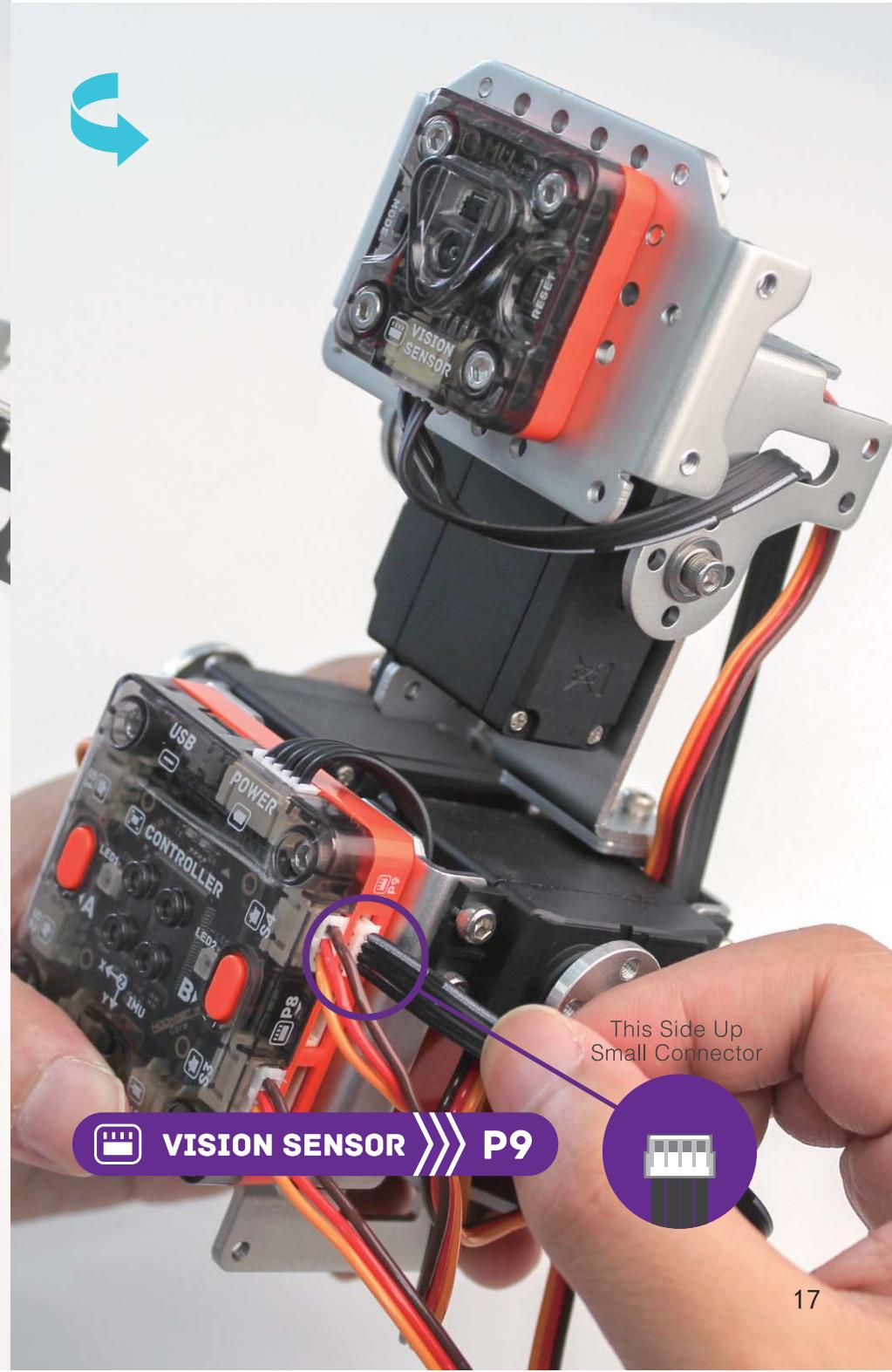
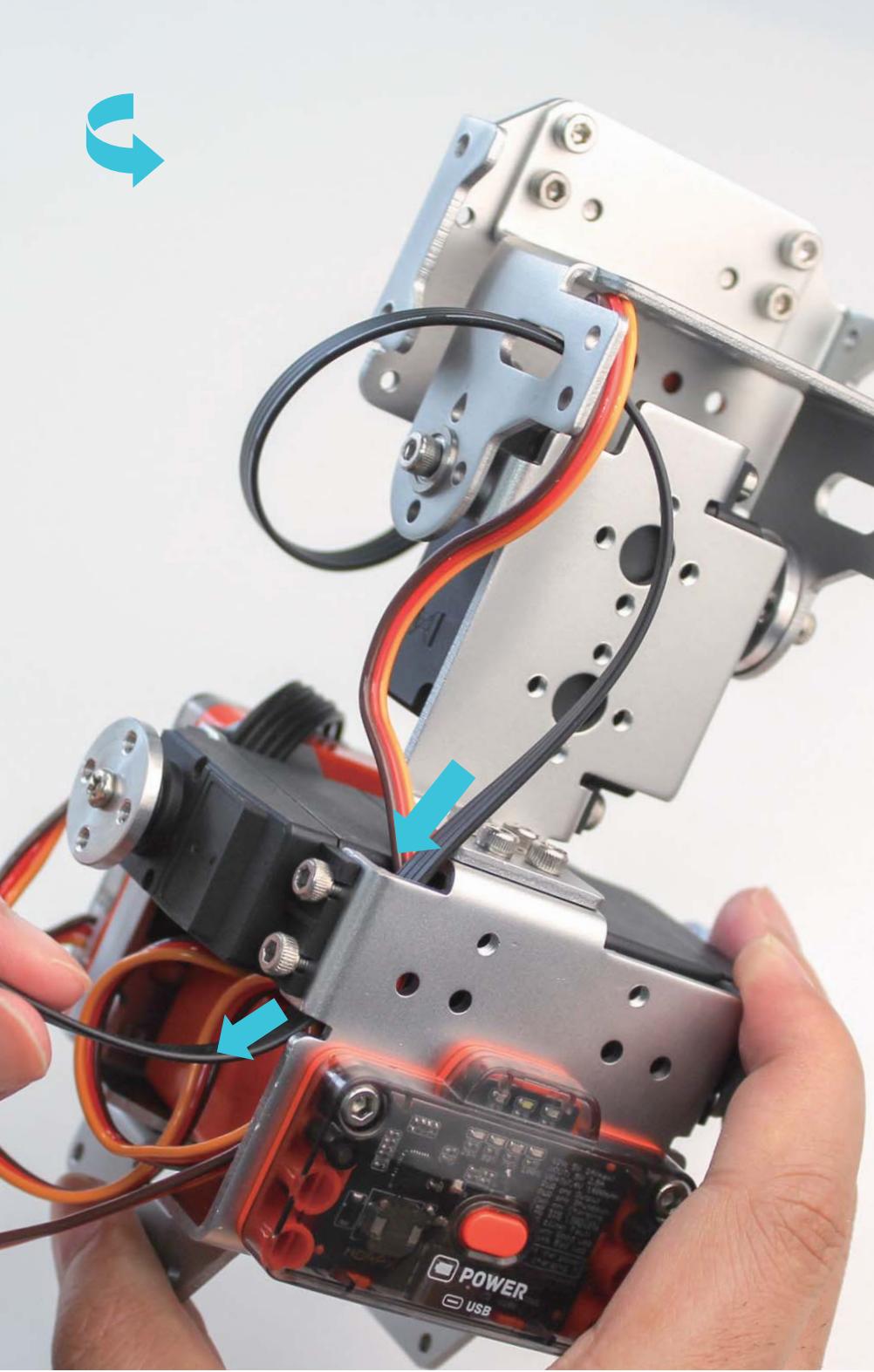
4PIN

↔

30CM



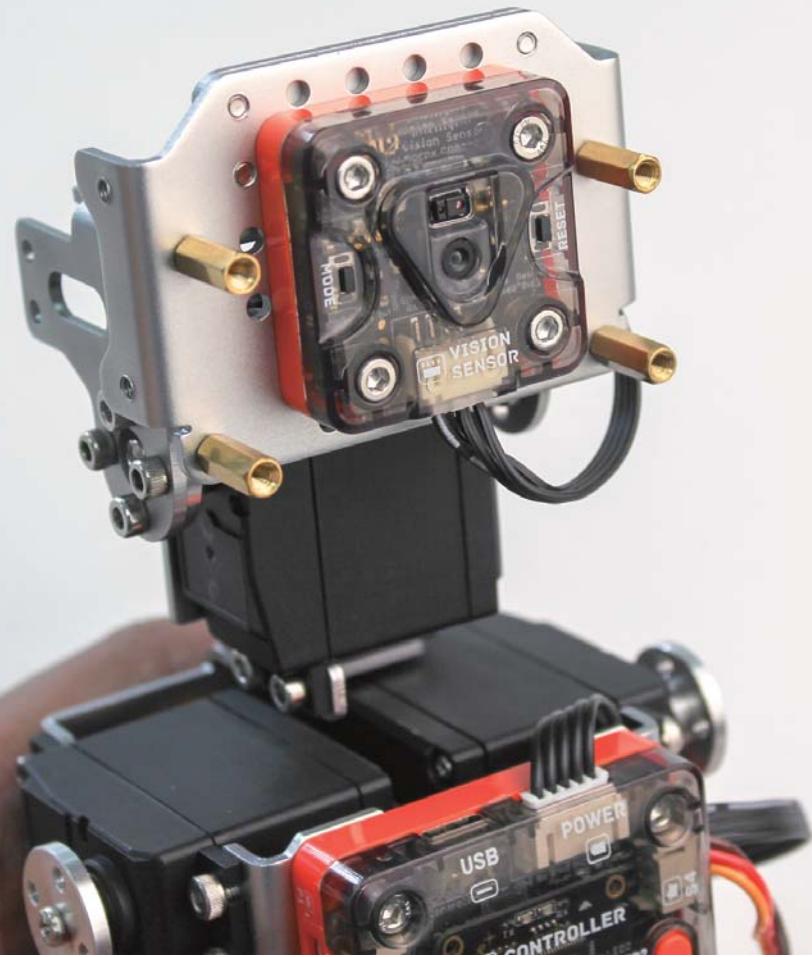
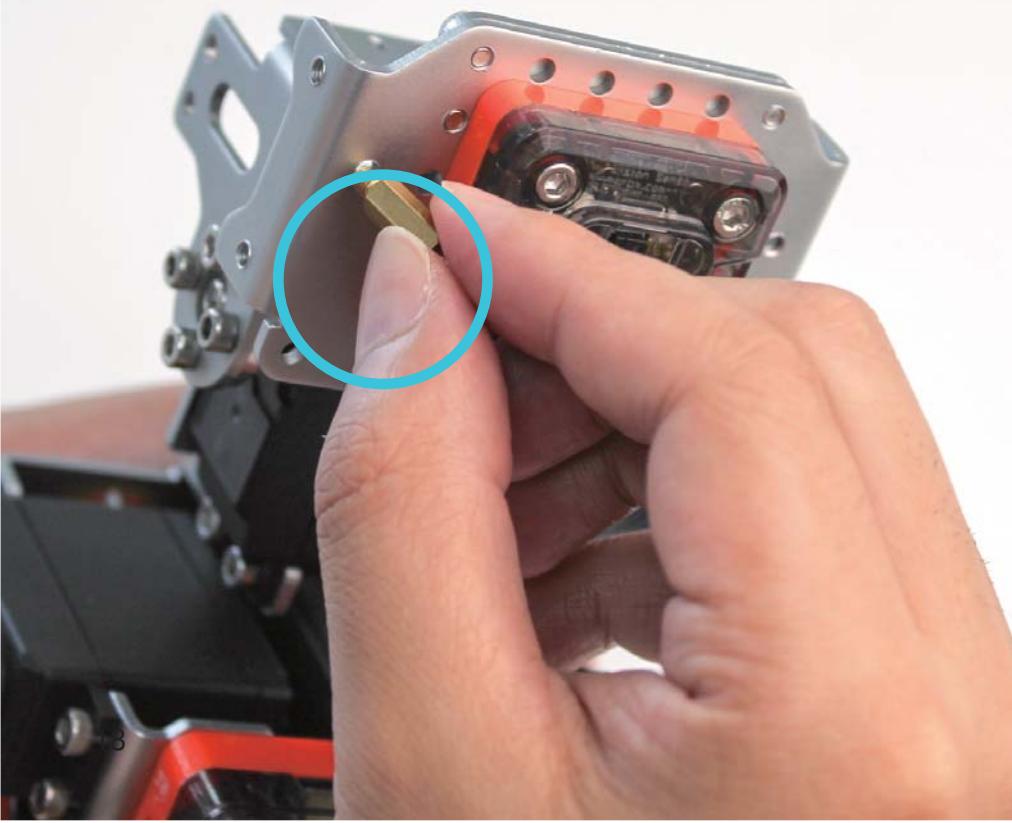
Large Connector  
This Side Up



13



X4



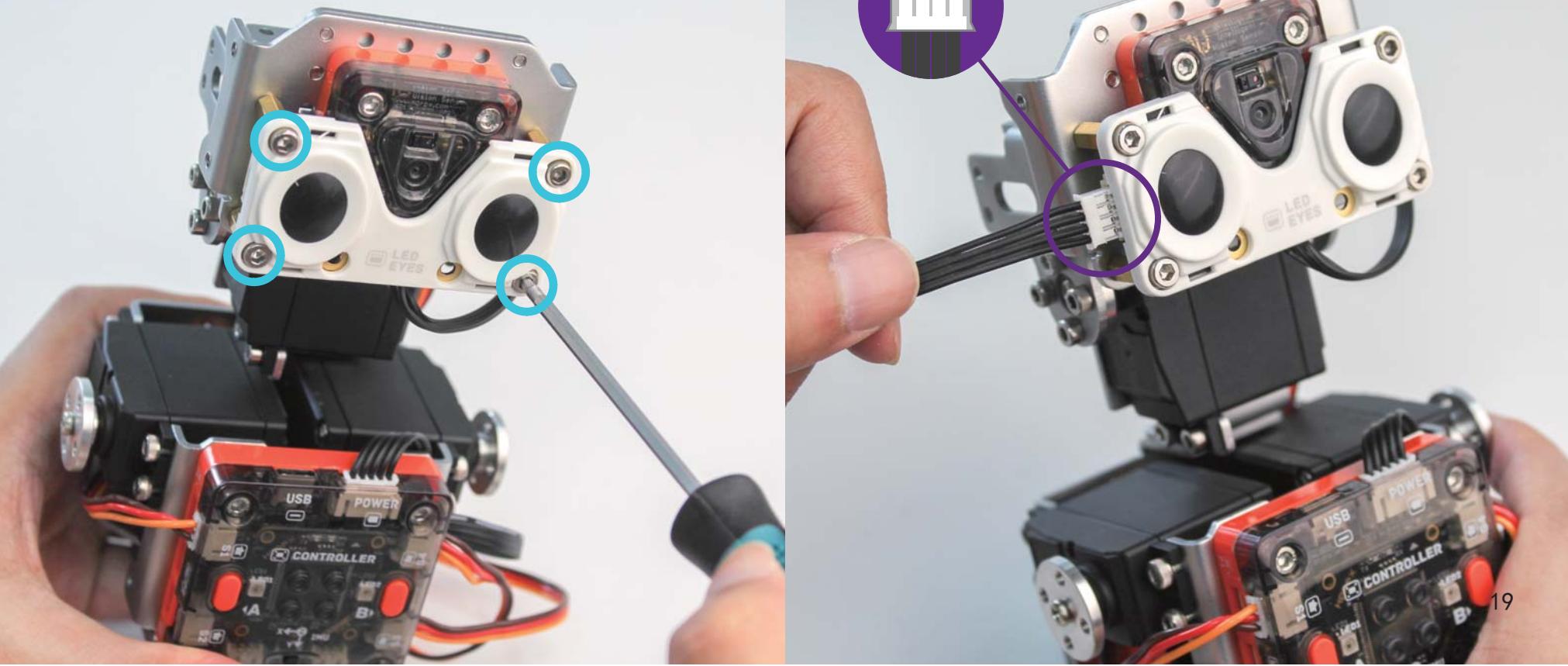
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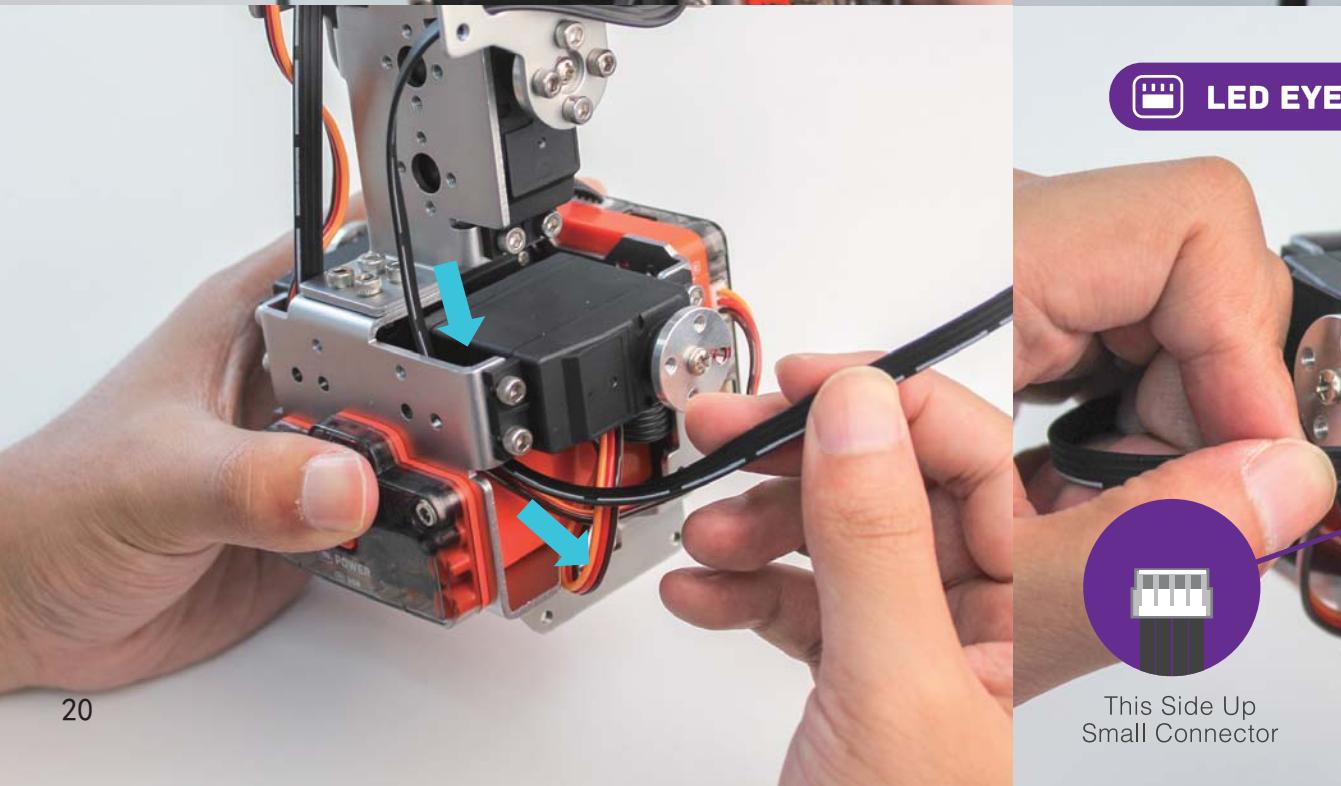
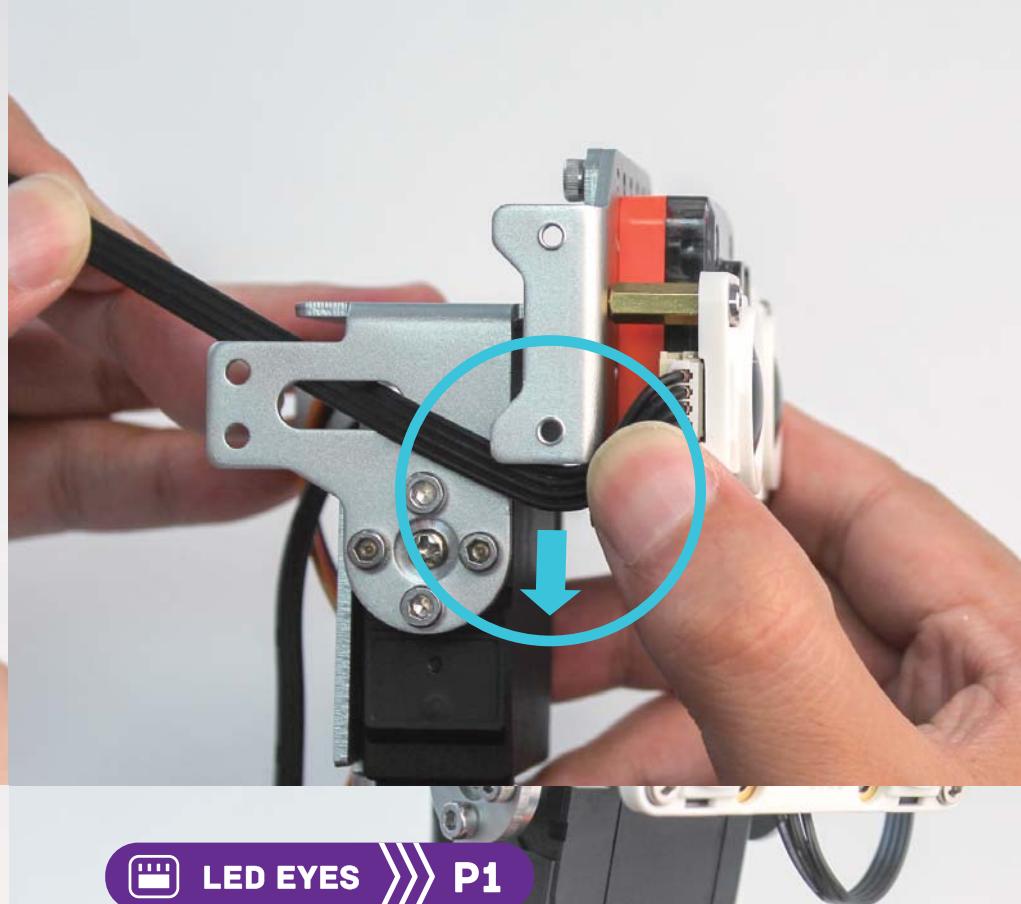
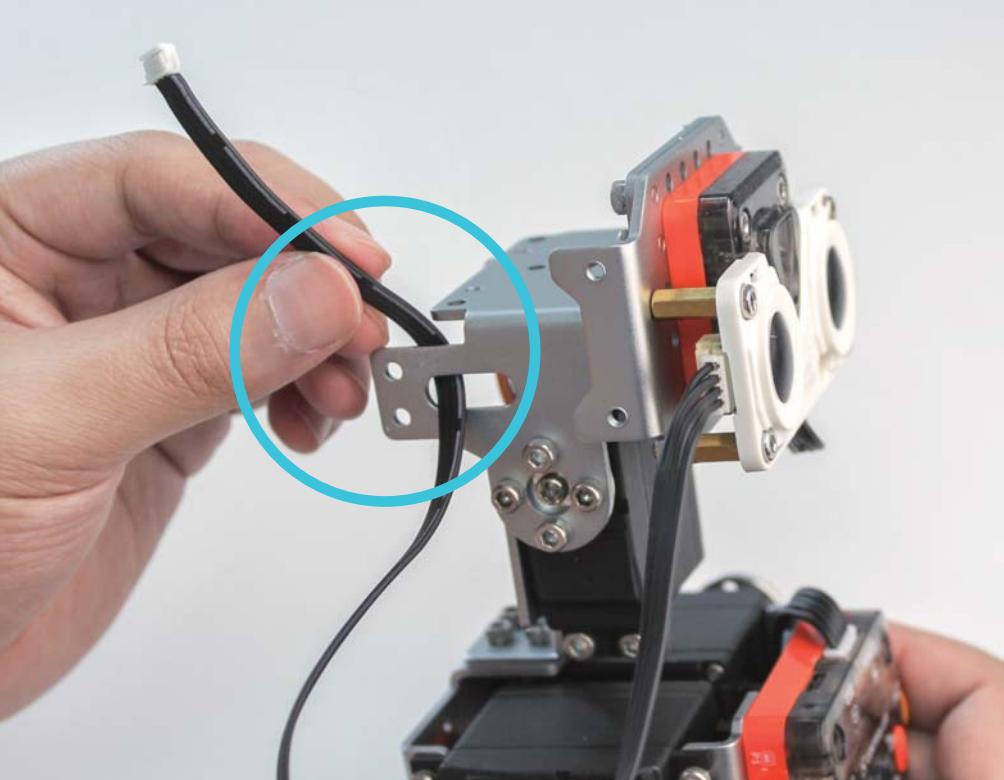


X4



This Side Up  
Large Connector

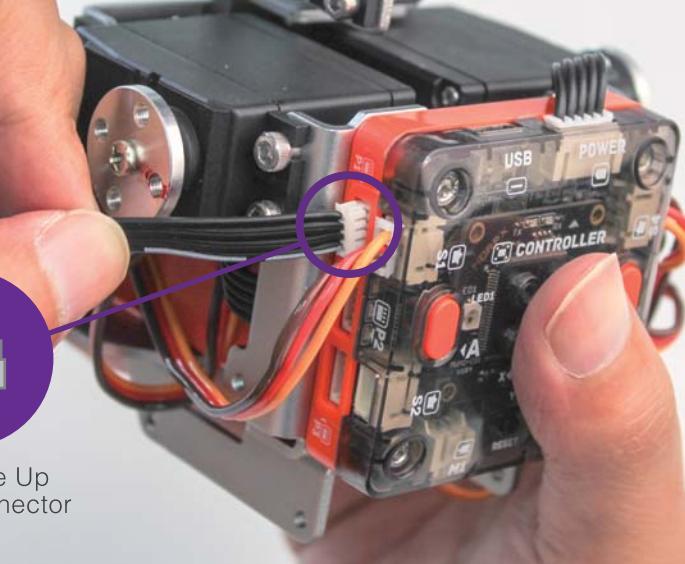




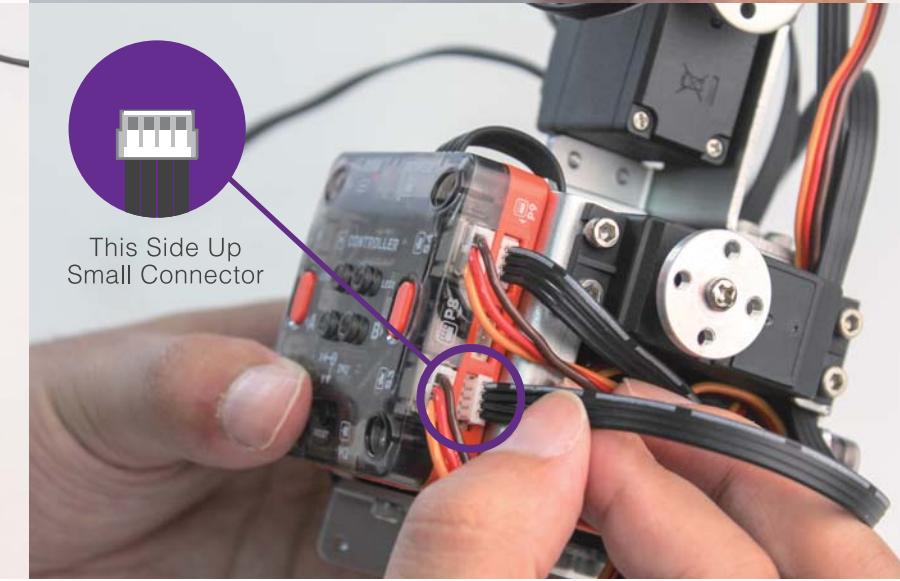
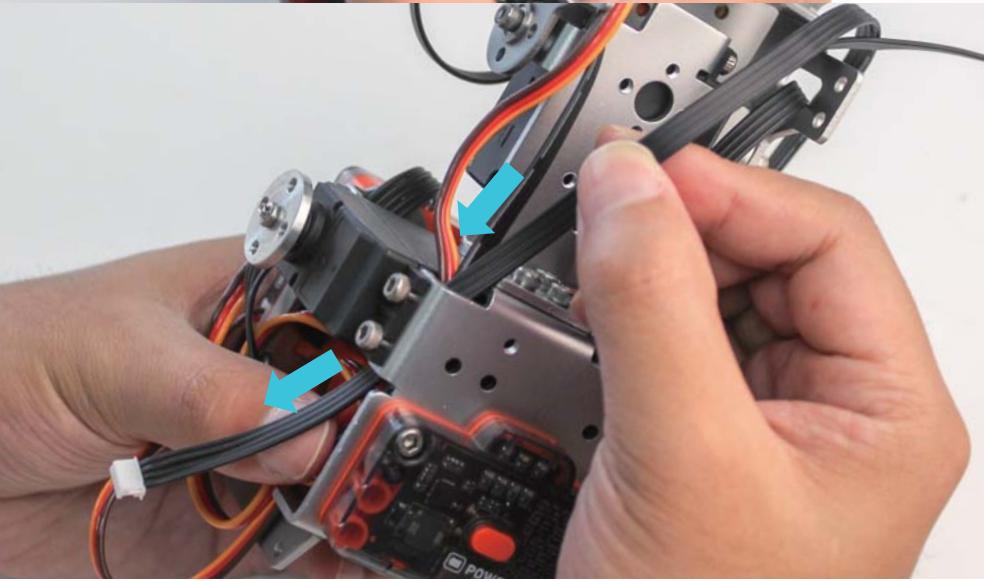
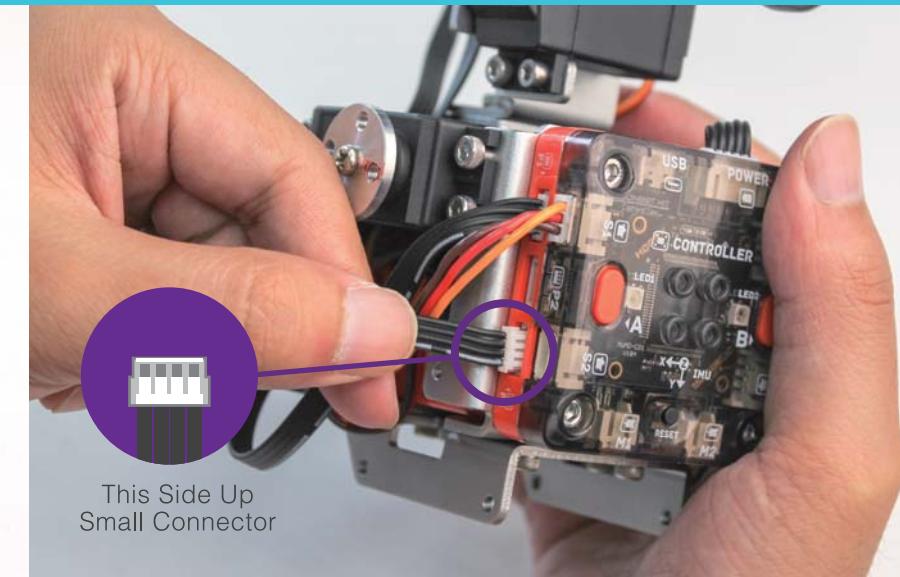
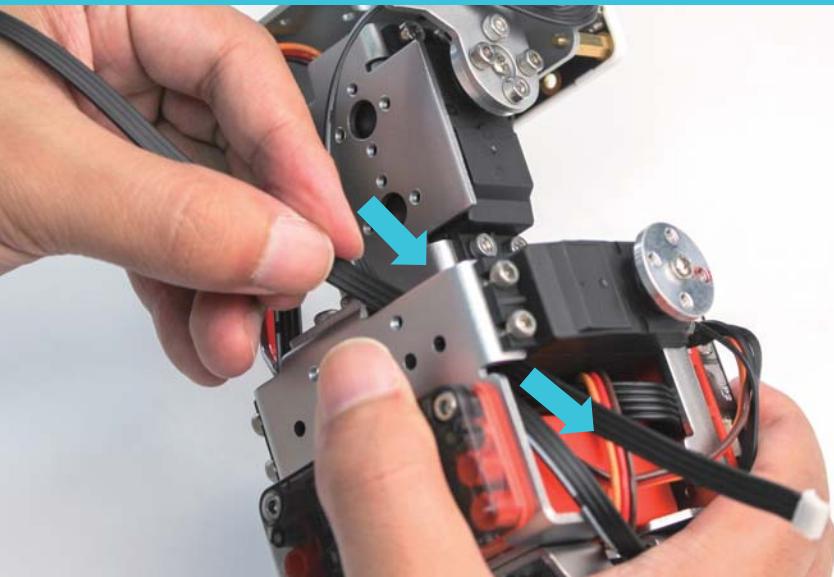
LED EYES ➤ P1



This Side Up  
Small Connector



# 15





**RIGHT TOUCH SENSOR** »» **P3**

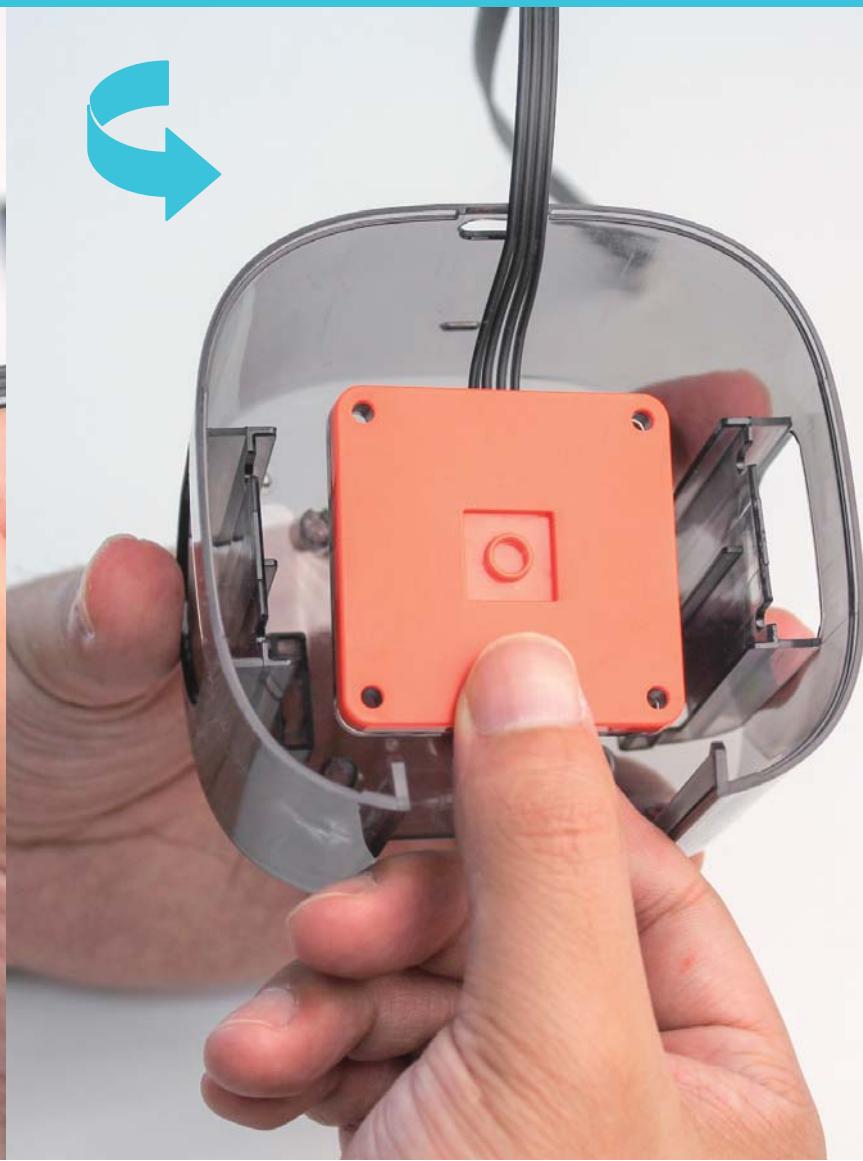
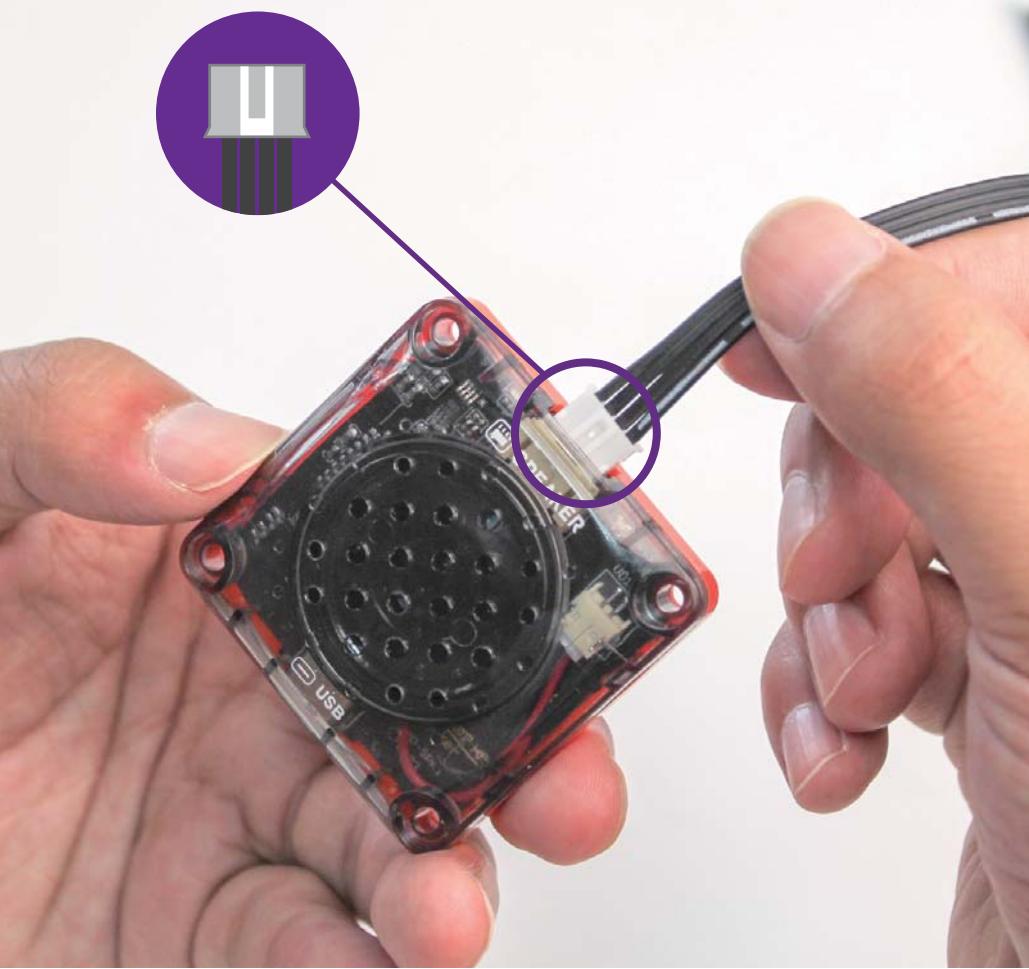


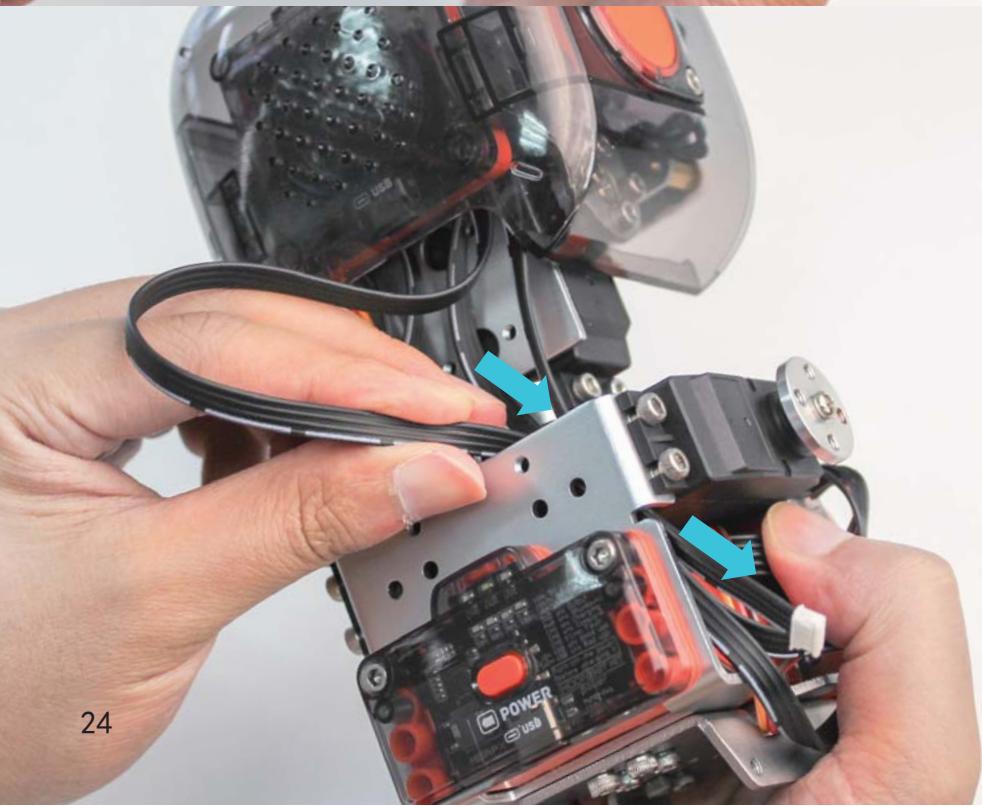
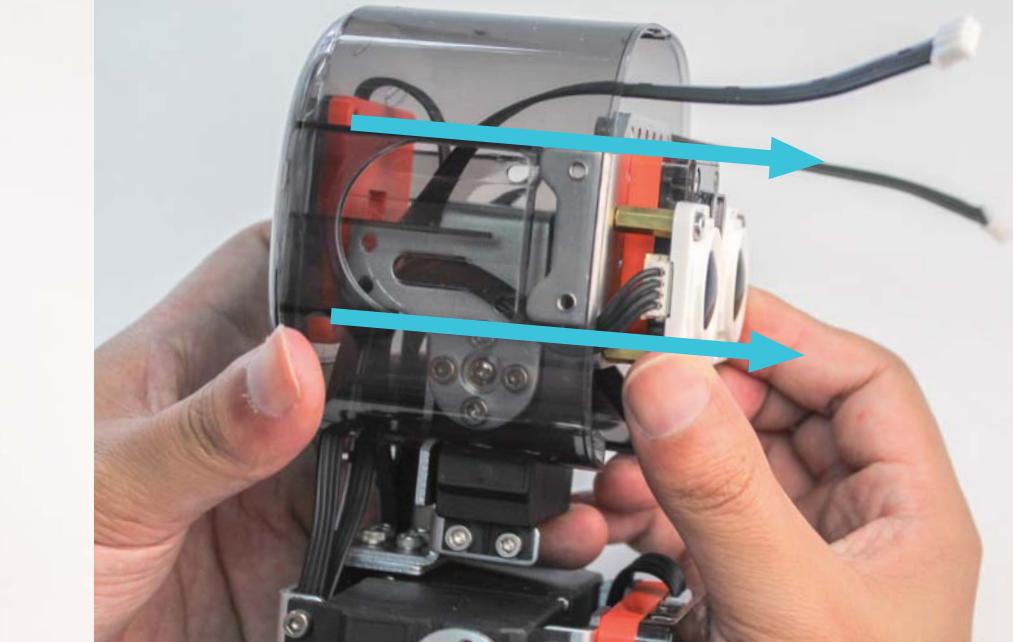
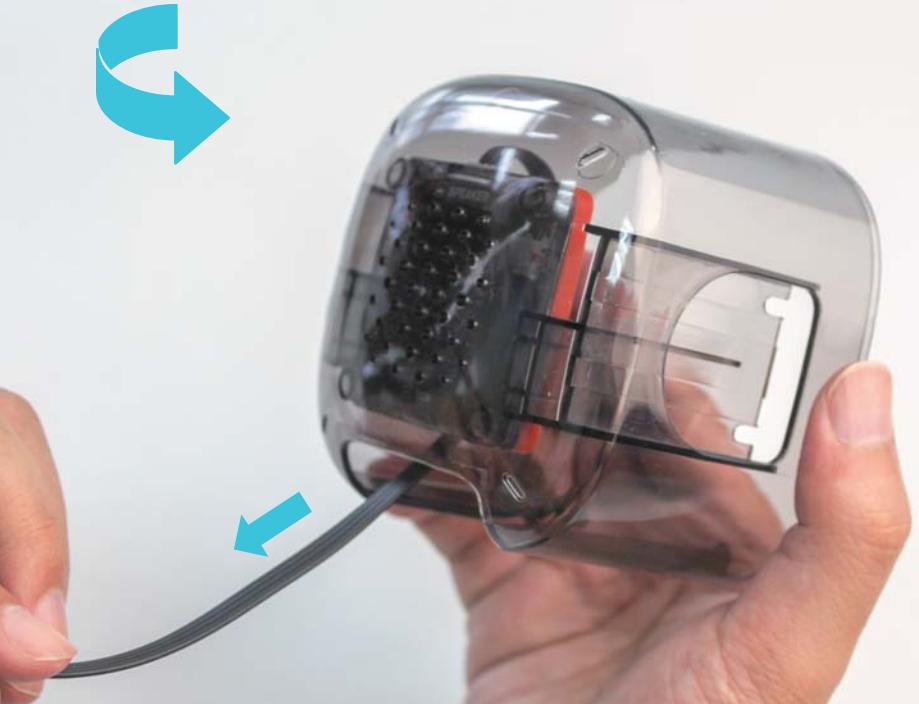
**LEFT TOUCH SENSOR** »» **P7**

# 16

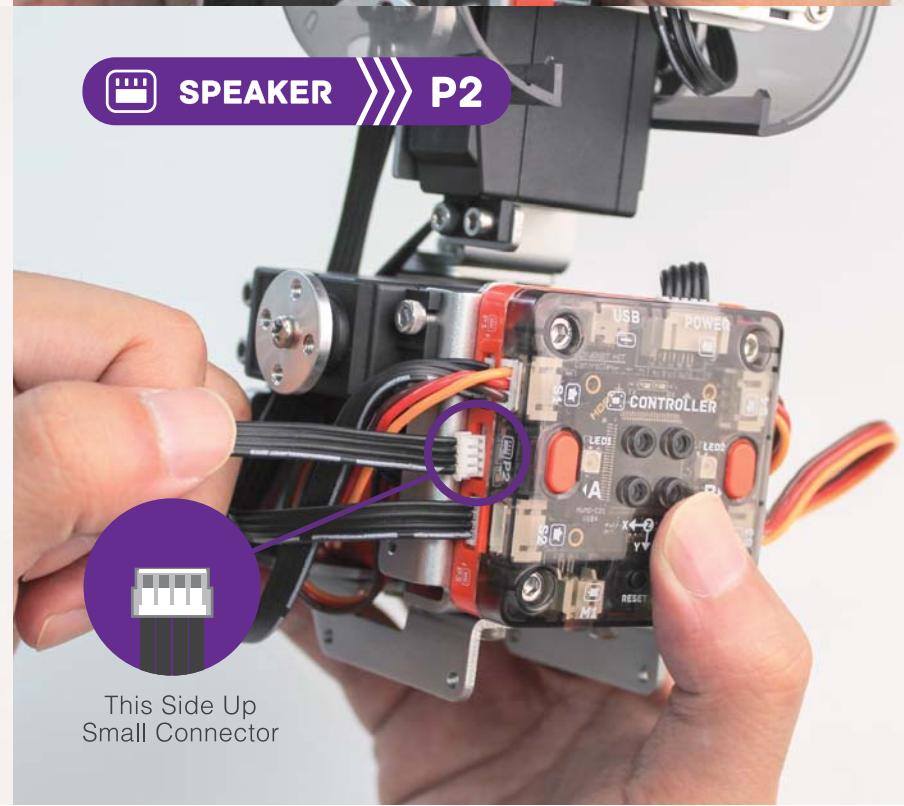


Large Connector  
This Side Up





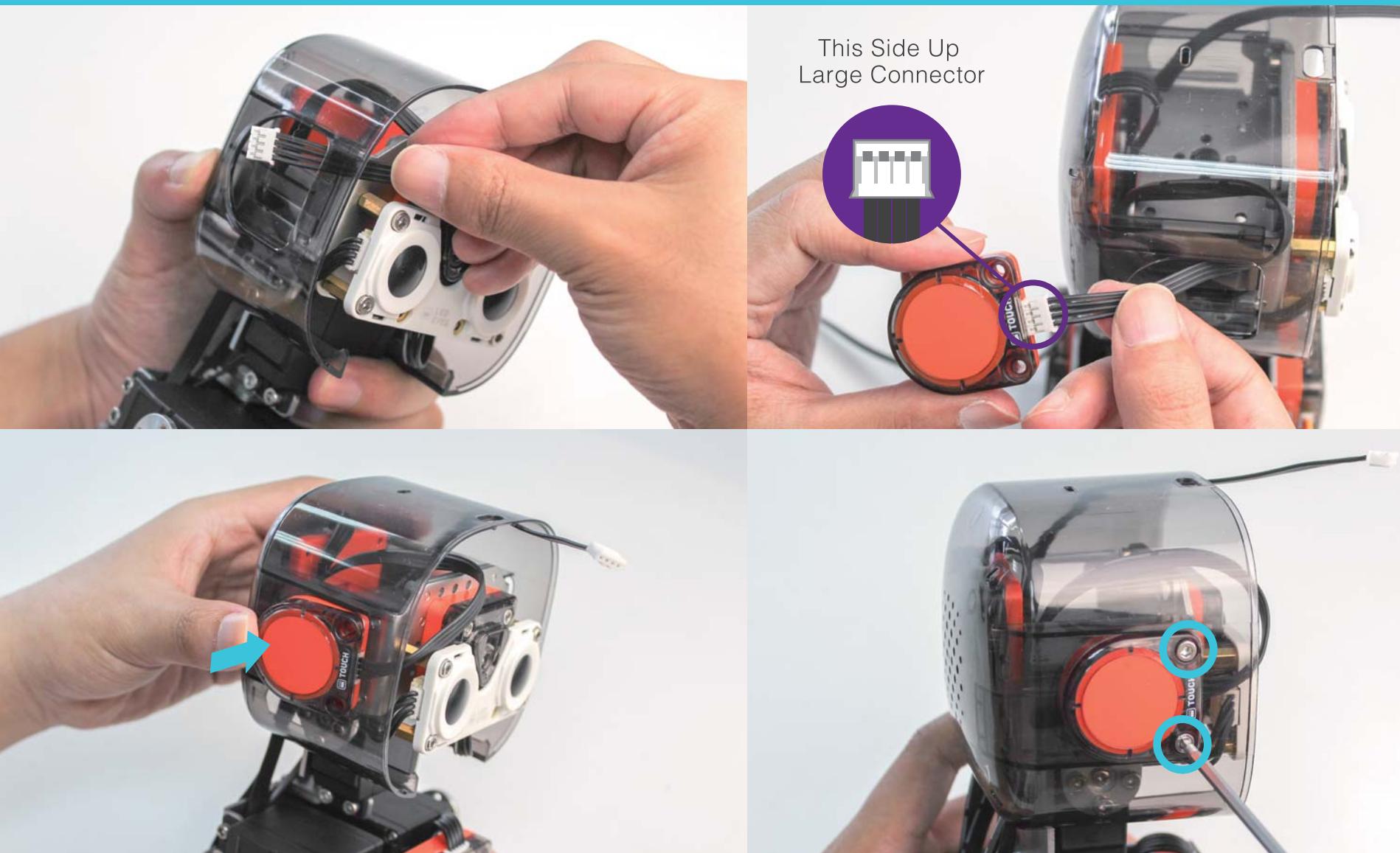
 SPEAKER ➞ P2



17



X2



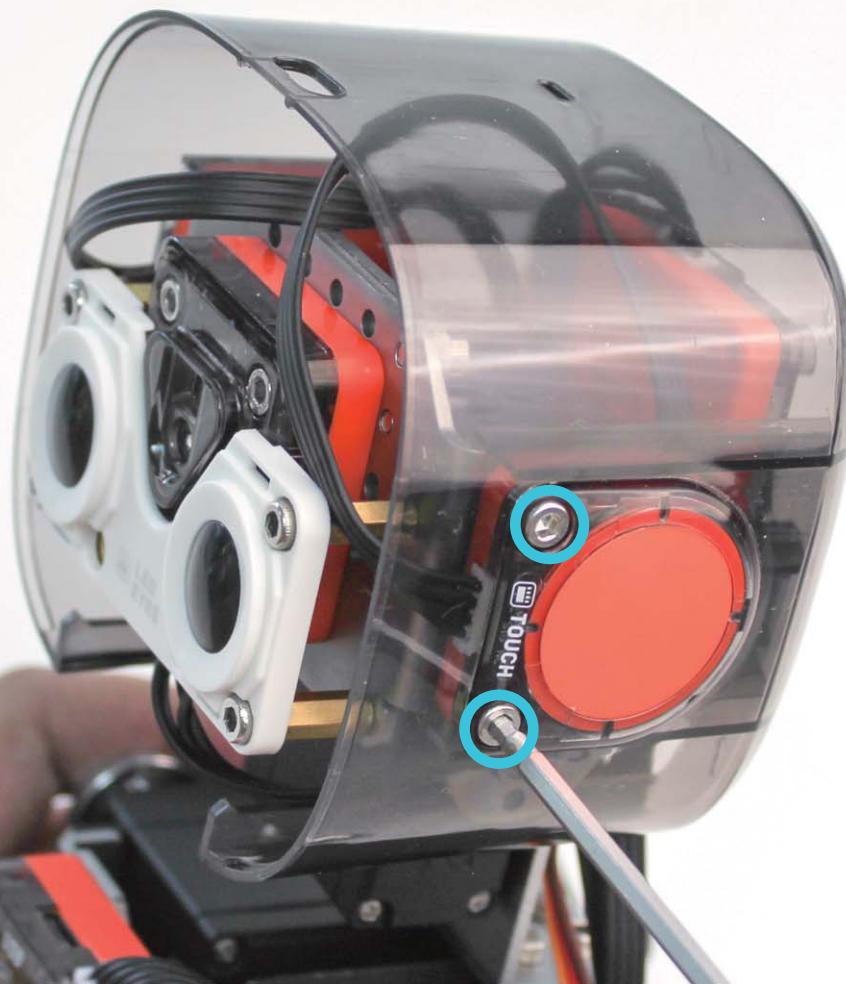
18



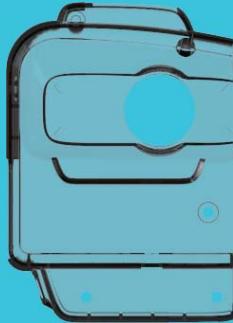
X2



Use the same method to install the left touch module



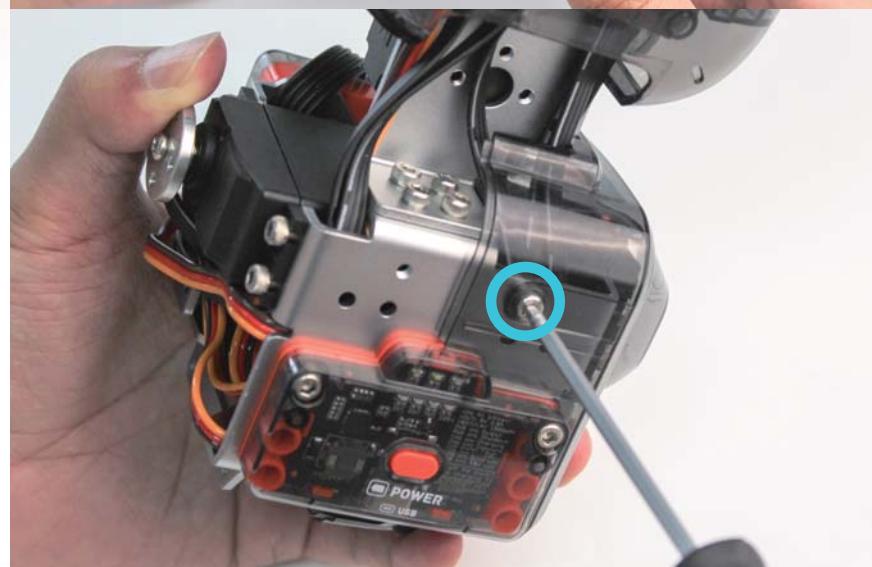
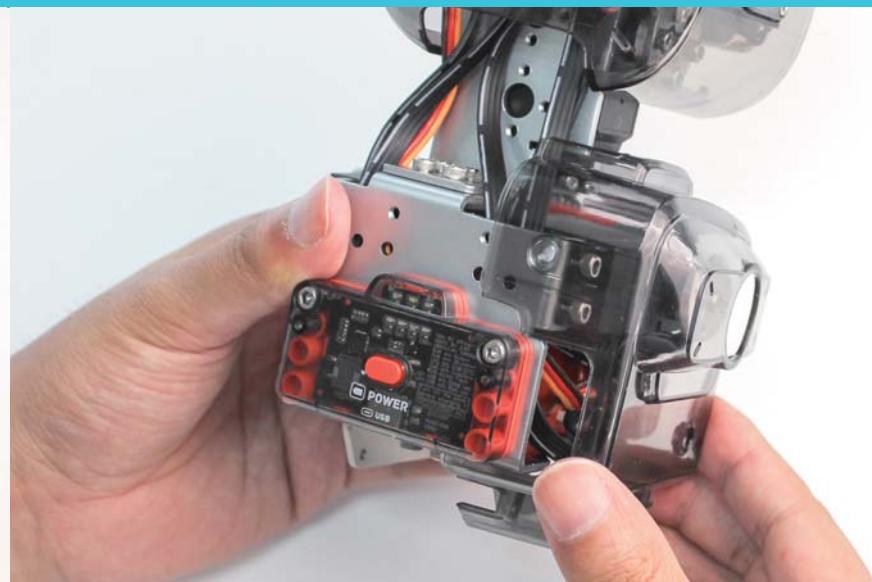
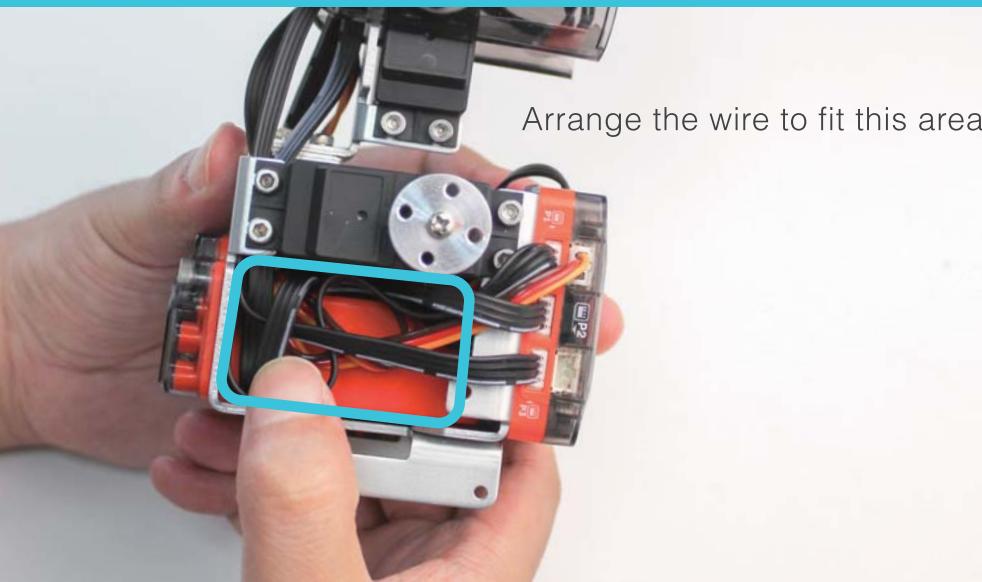
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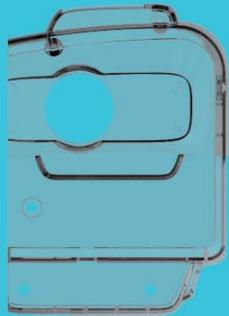
M3X4  
X2

X2

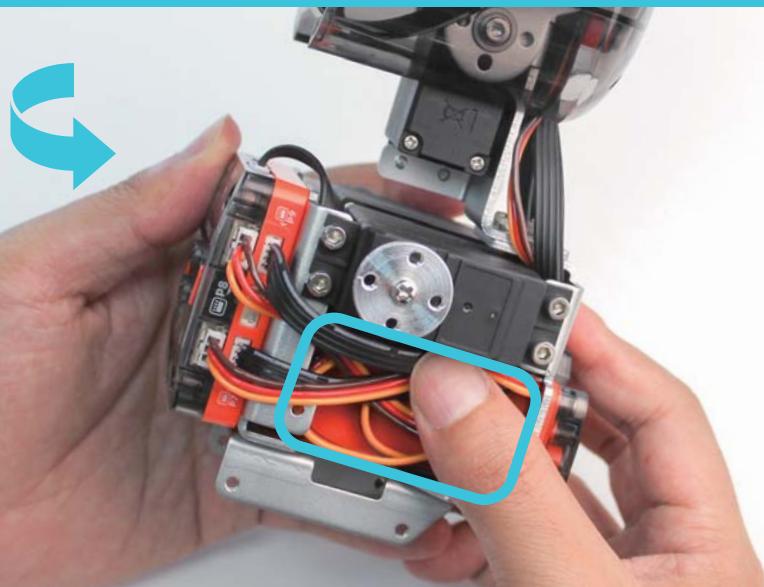
Arrange the wire to fit this area



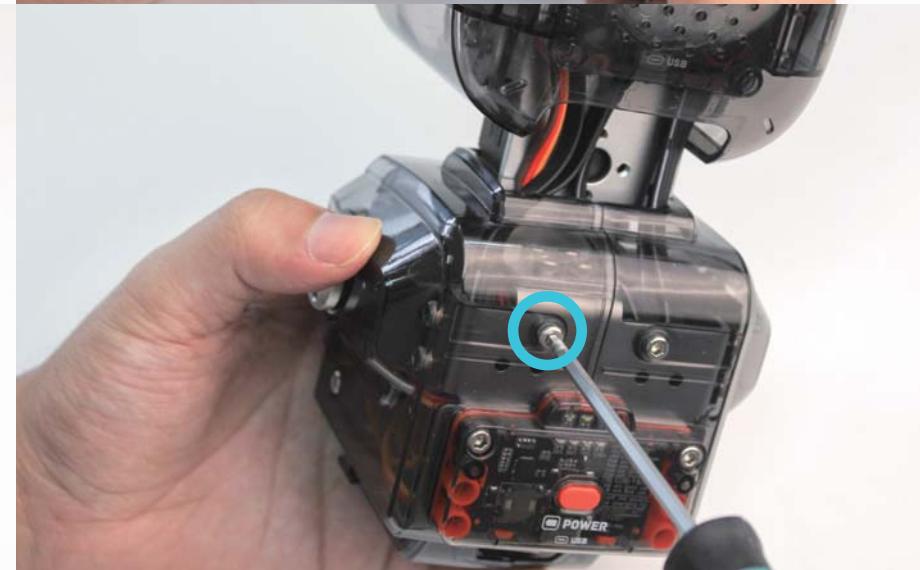
# 20



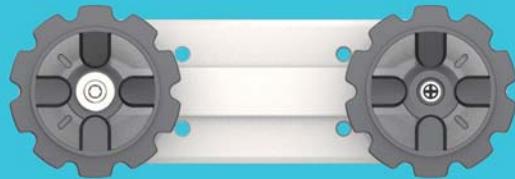
M3X4  
X2



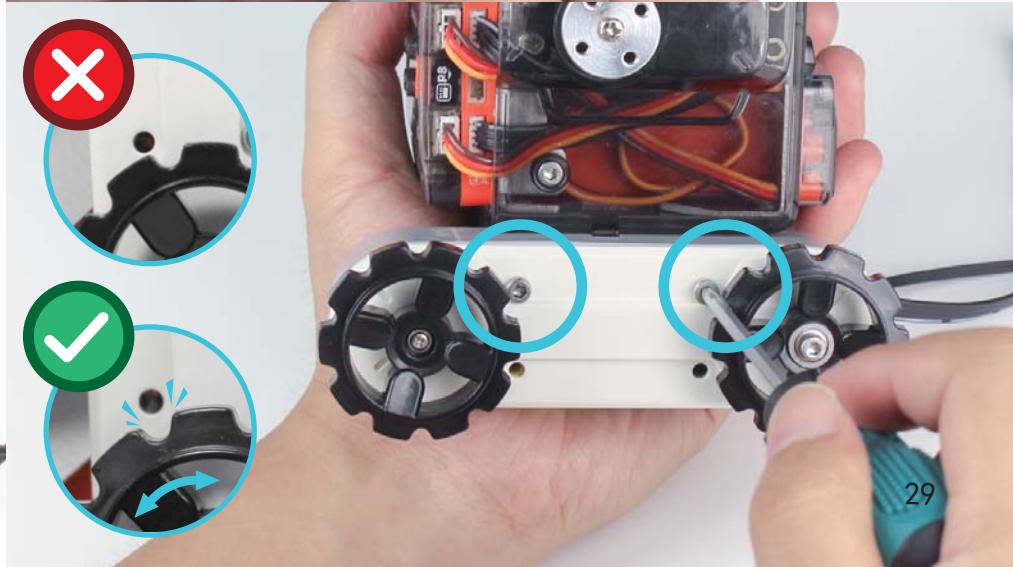
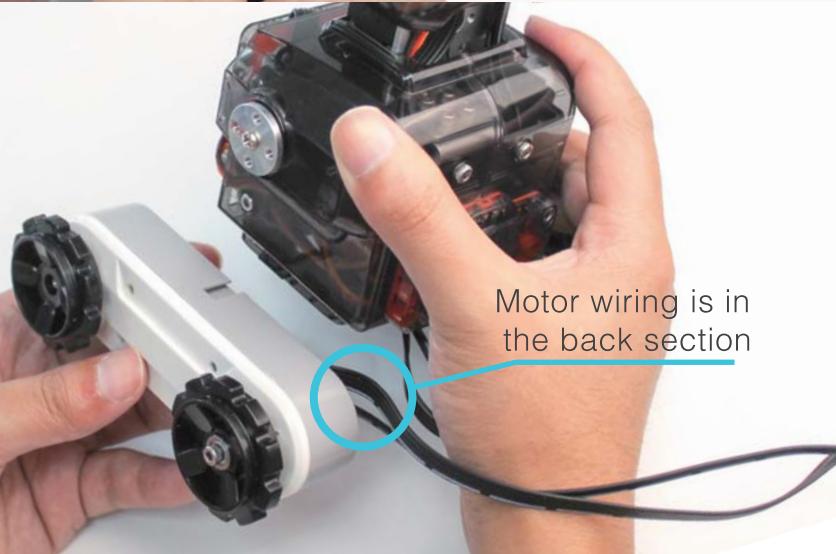
Arrange the wire to fit this area, And close the left and right covers

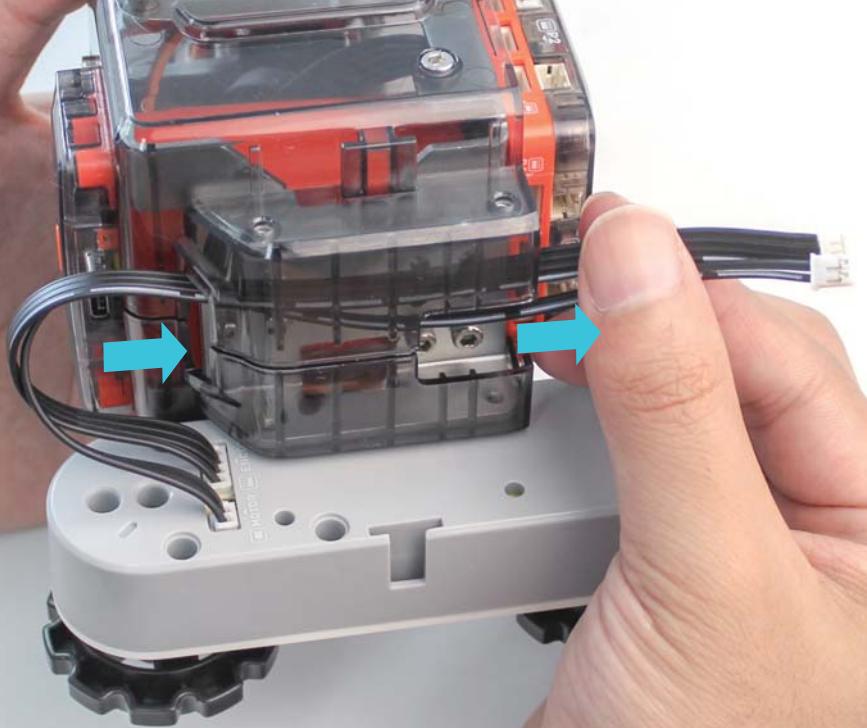


21

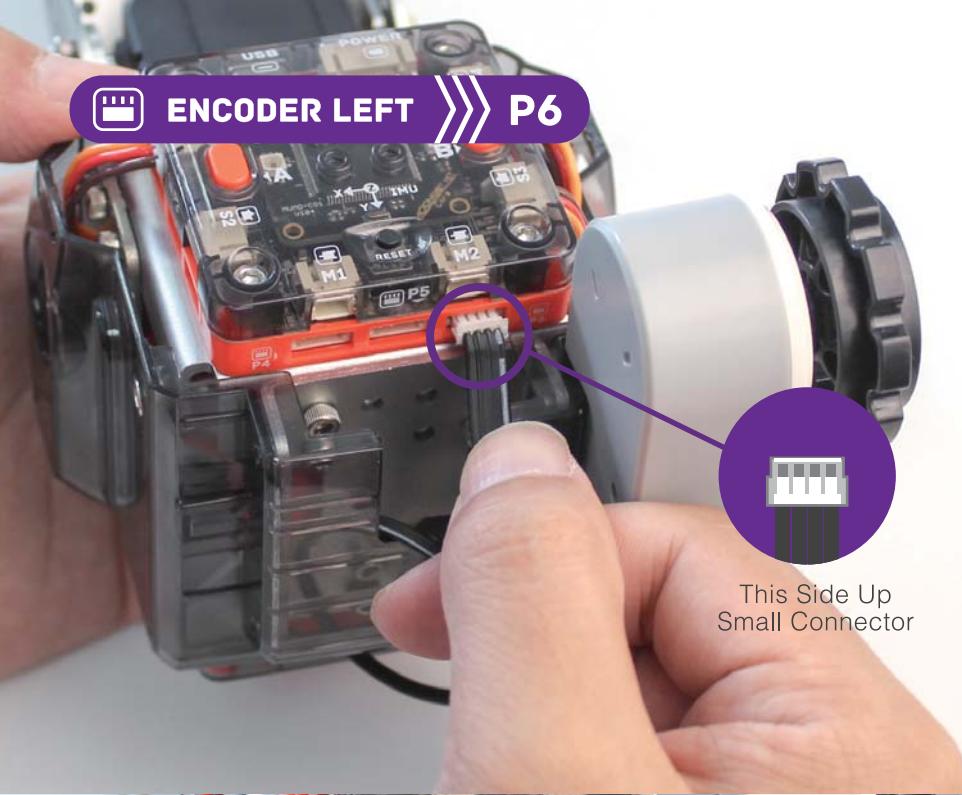


X2

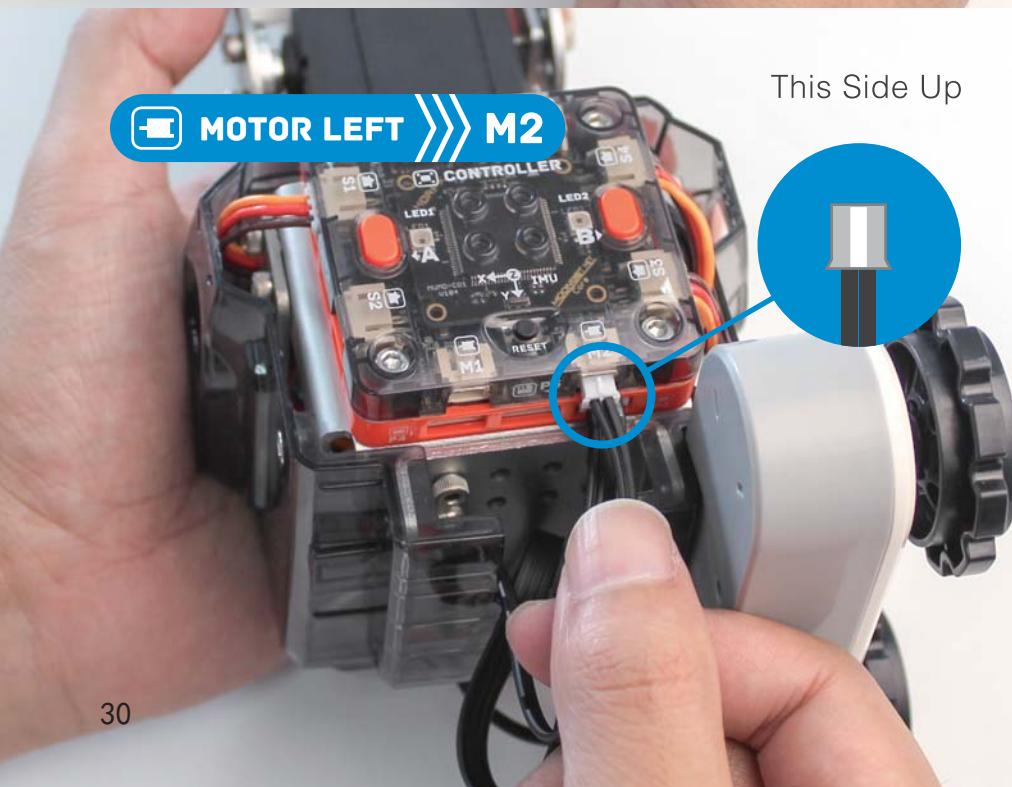




ENCODER LEFT »» P6

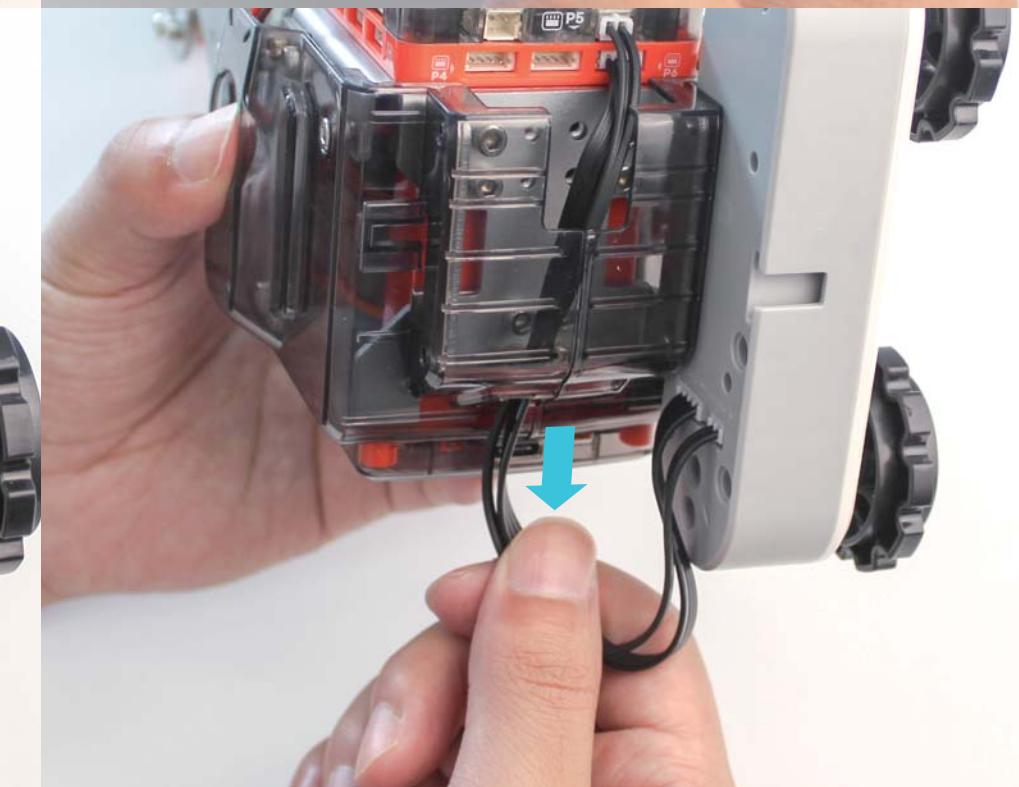


This Side Up  
Small Connector

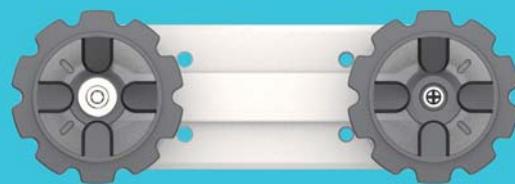


MOTOR LEFT »» M2

This Side Up



22

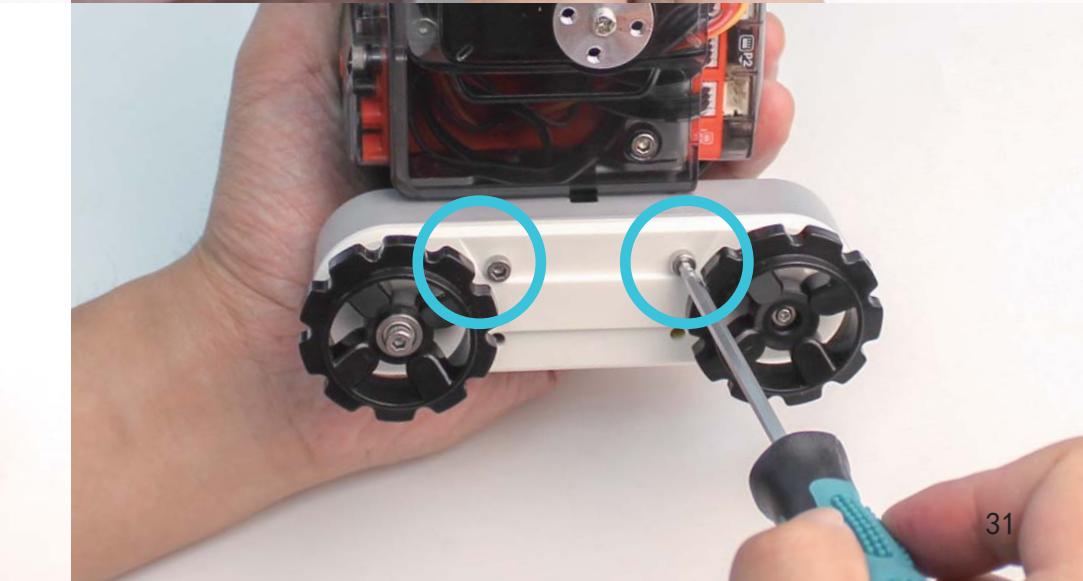
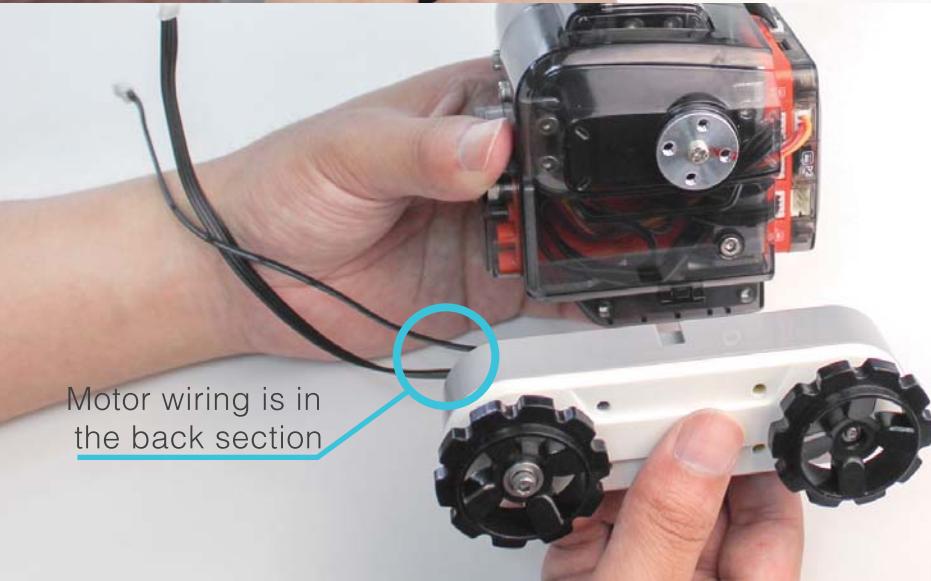
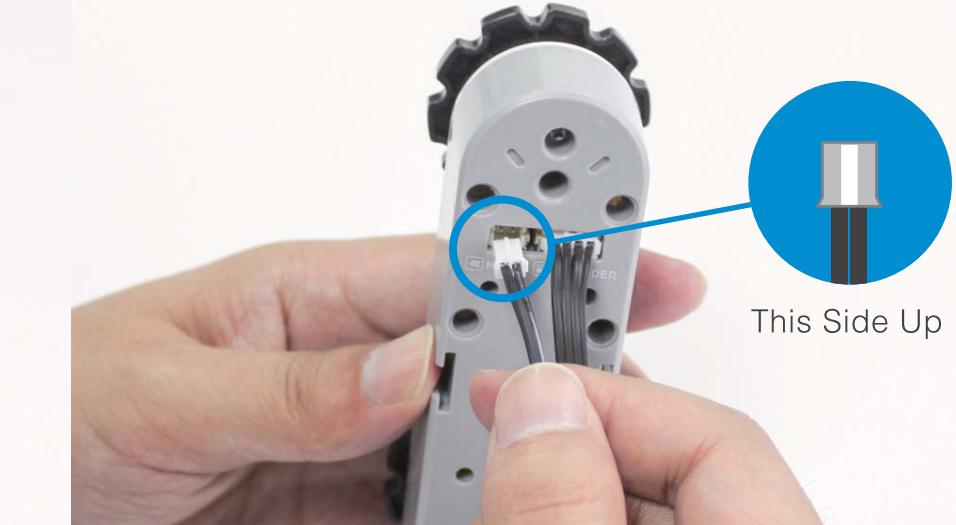


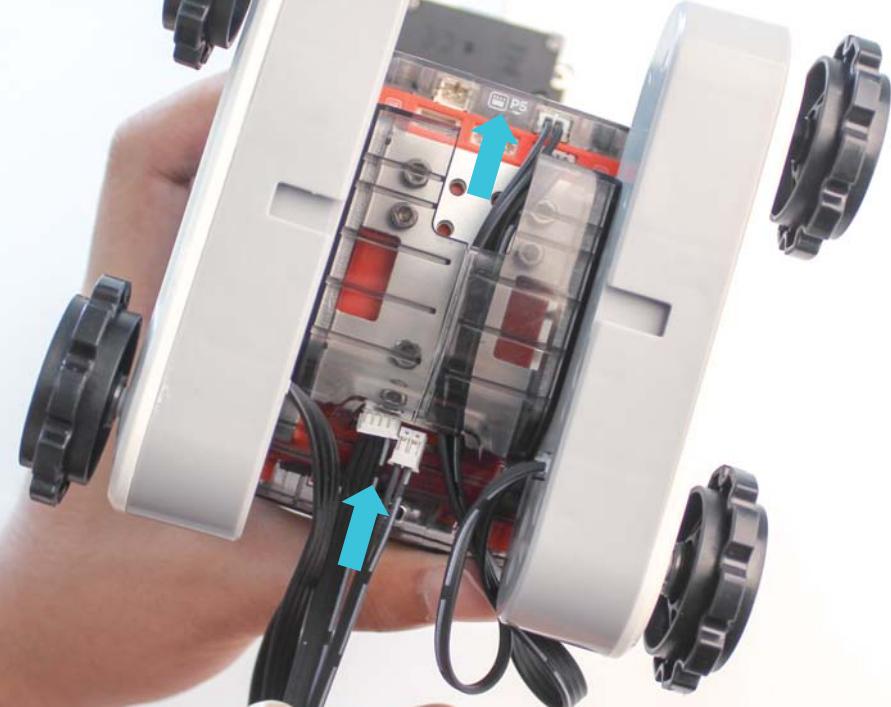
M3X28

X2

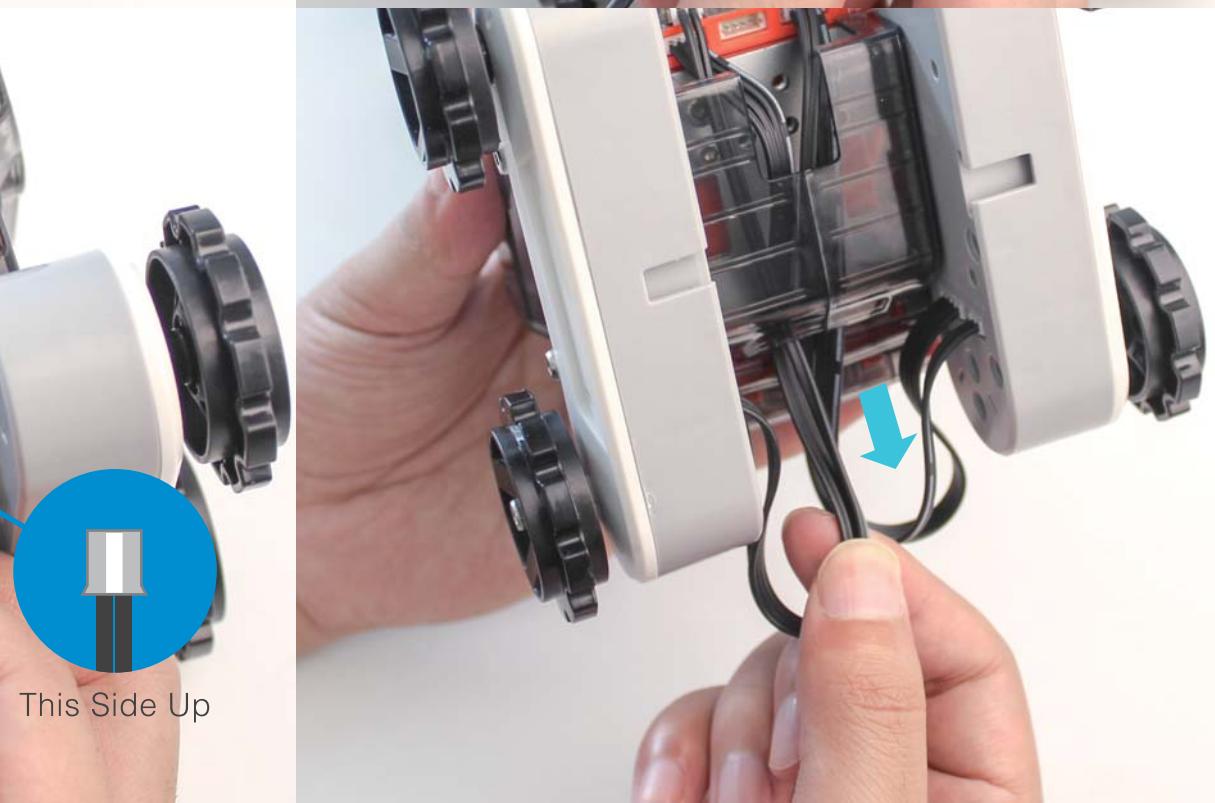
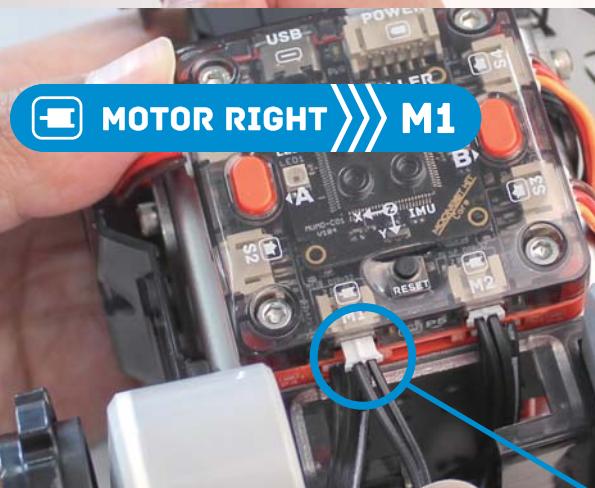
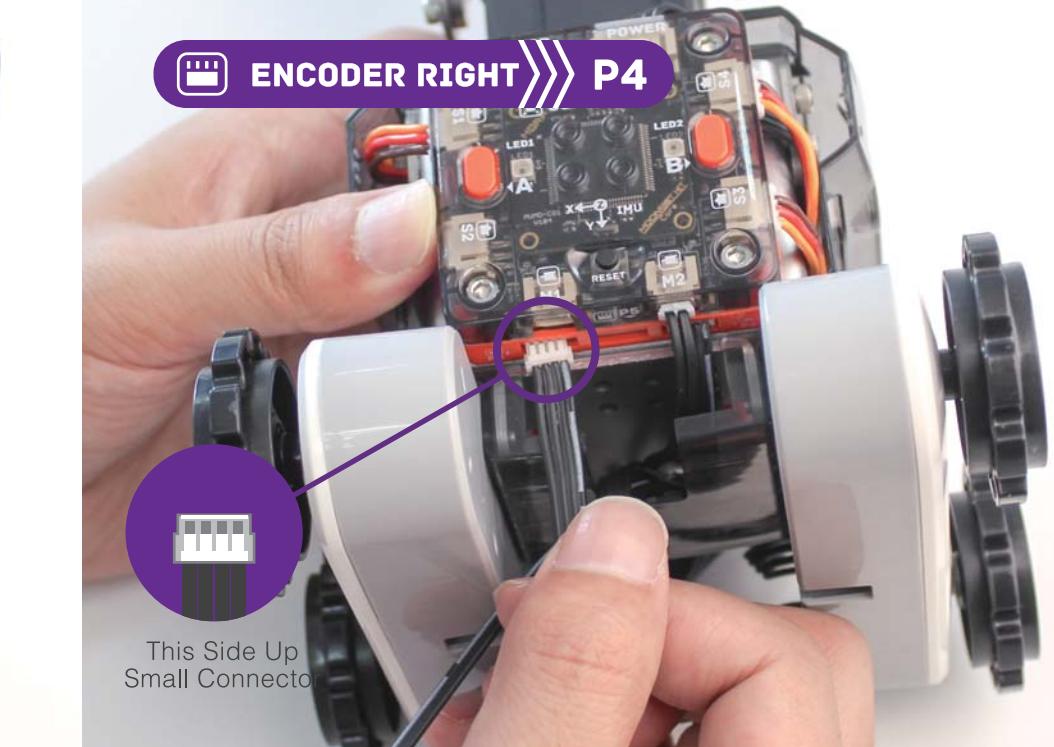
2PIN 18CM

4PIN 18CM

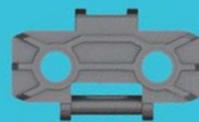




🎥 ENCODER RIGHT ➞ P4



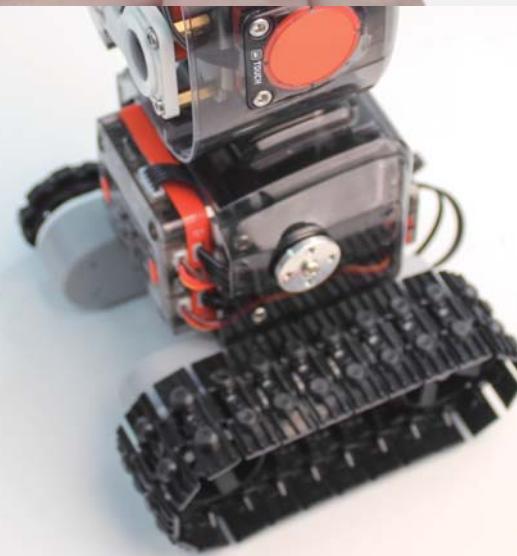
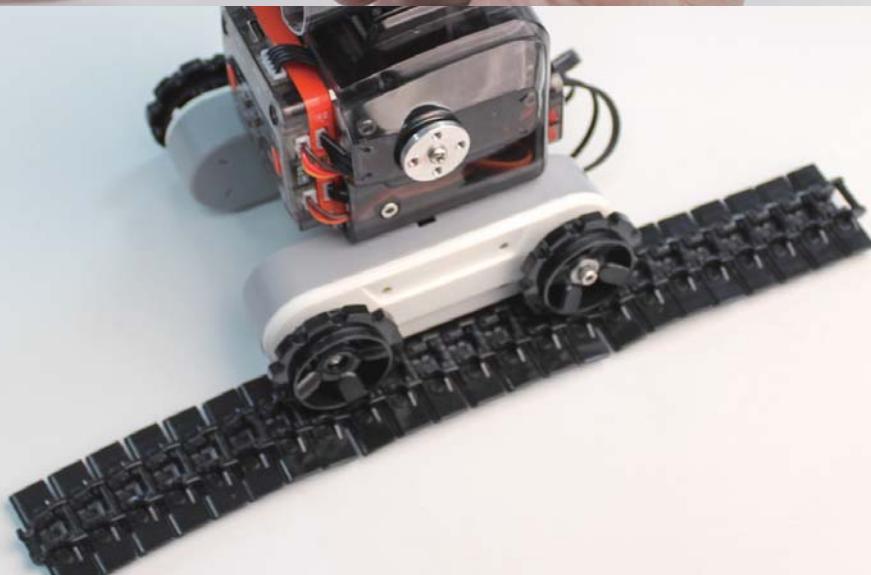
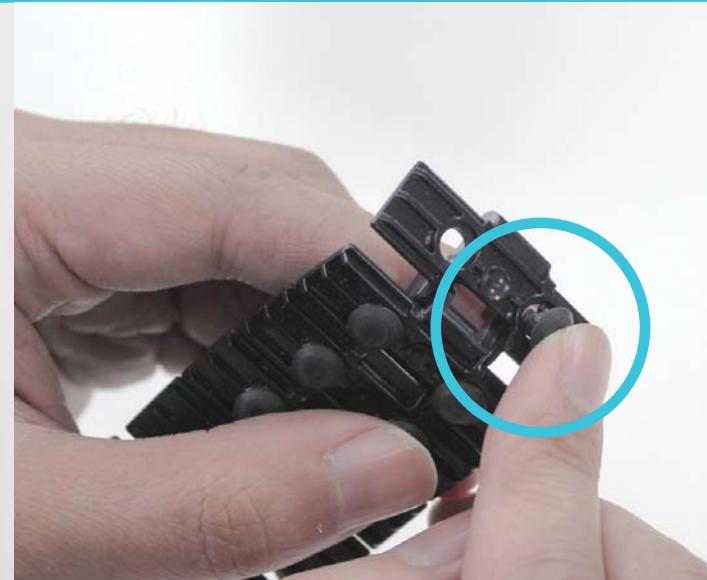
23



X23



X46



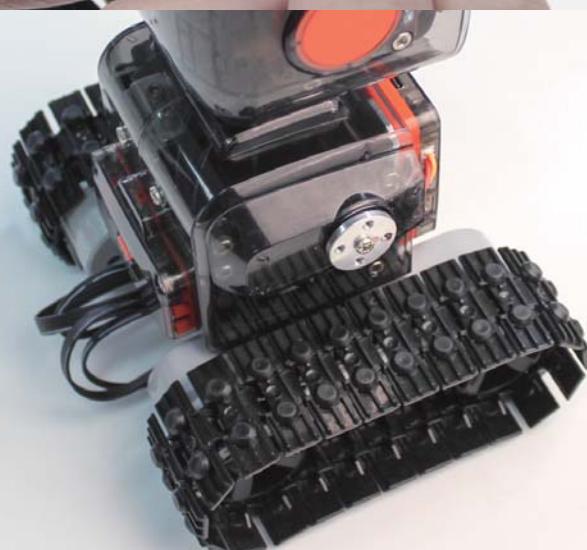
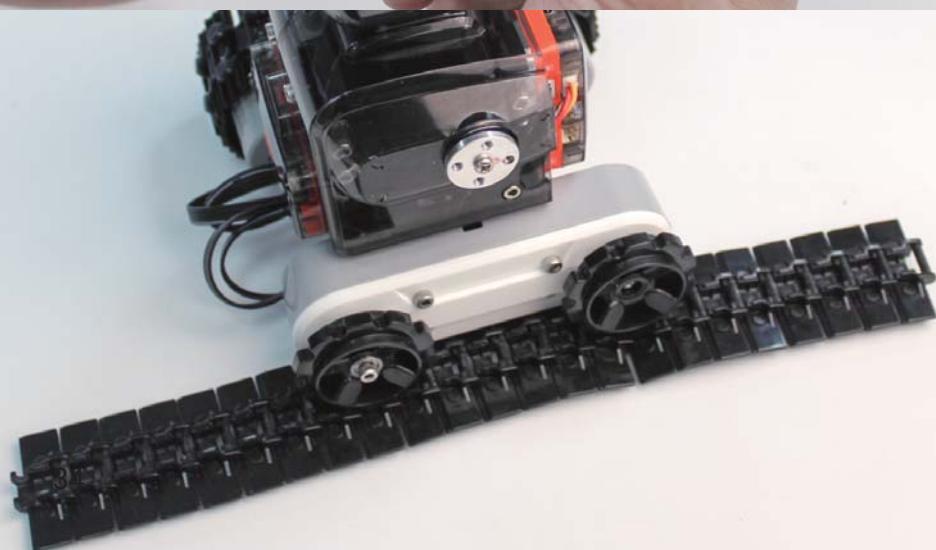
24



X23



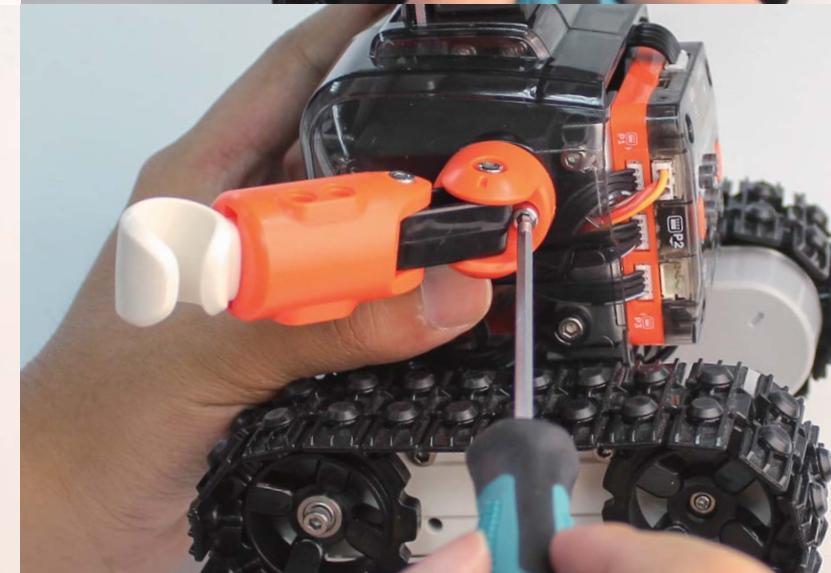
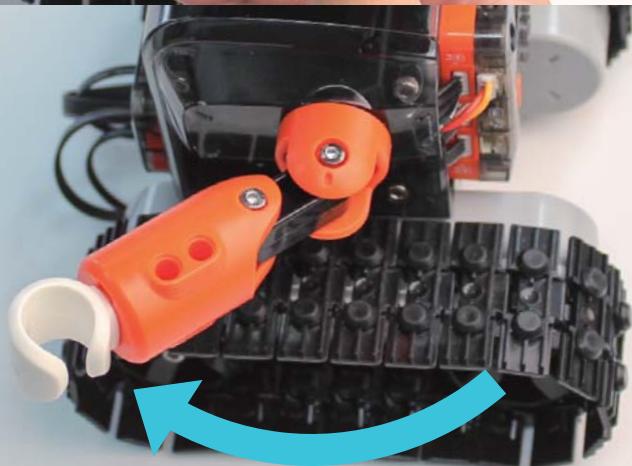
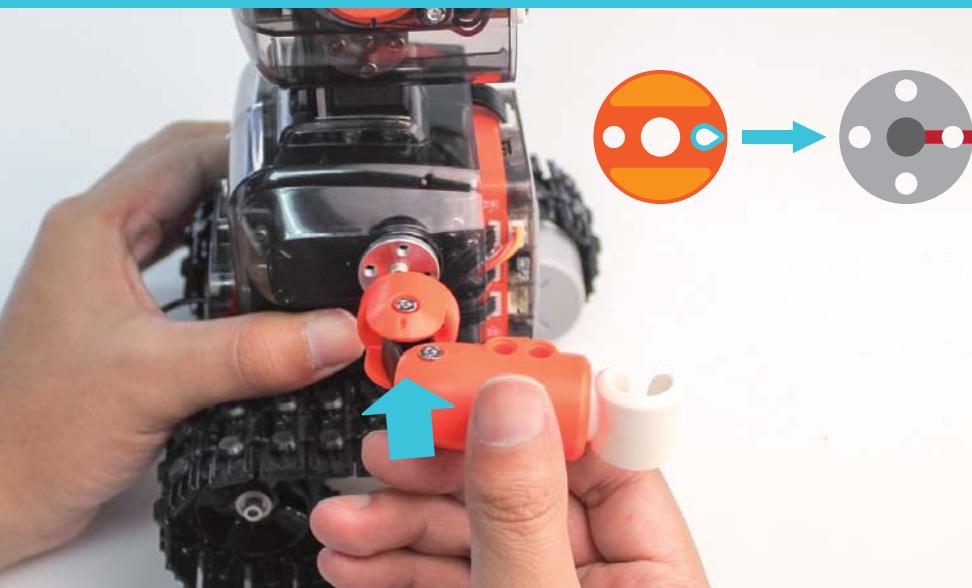
X46



25



X2

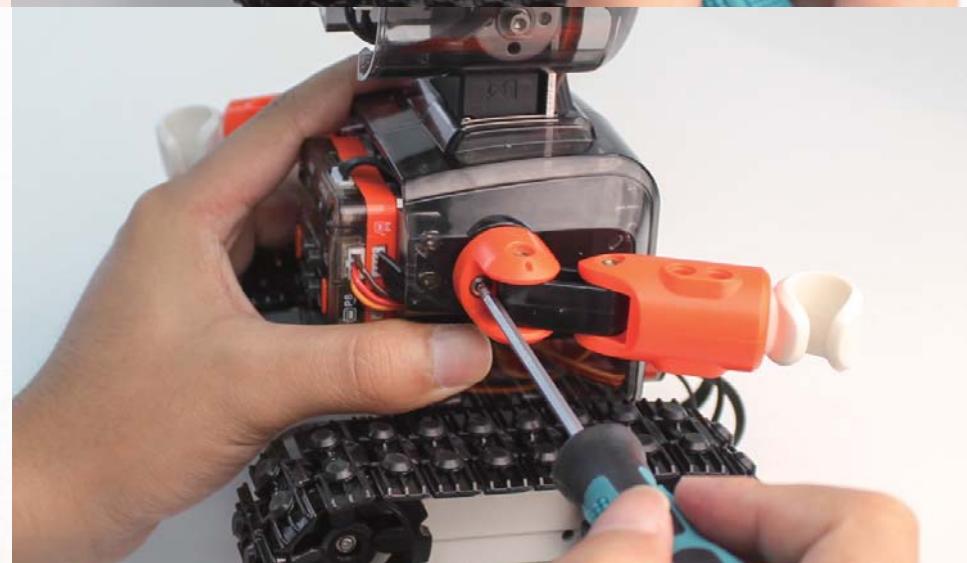
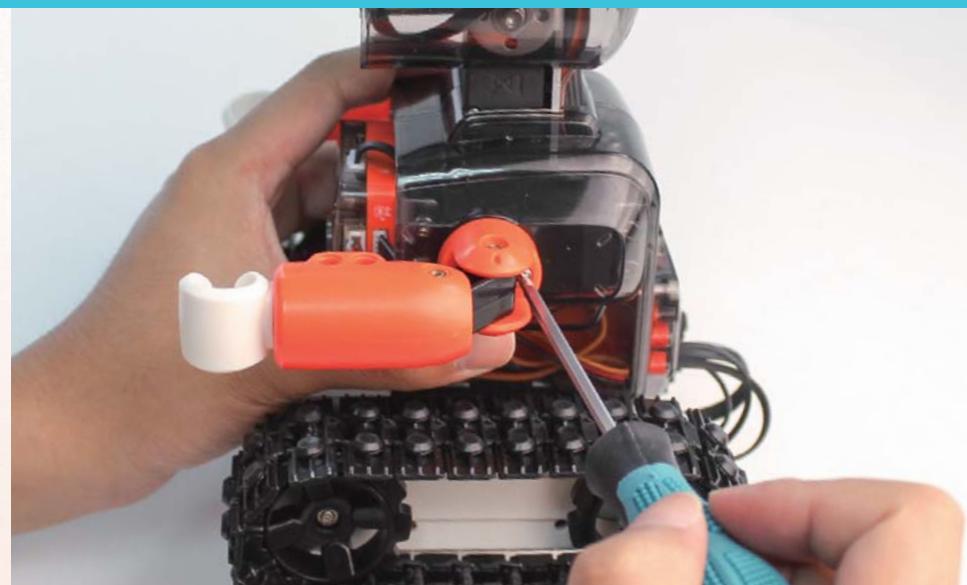
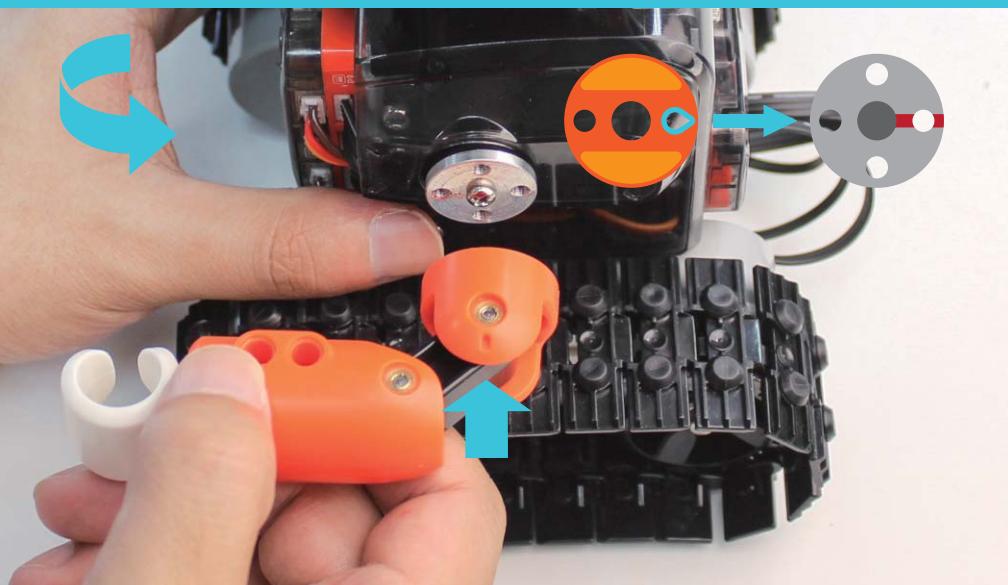


26

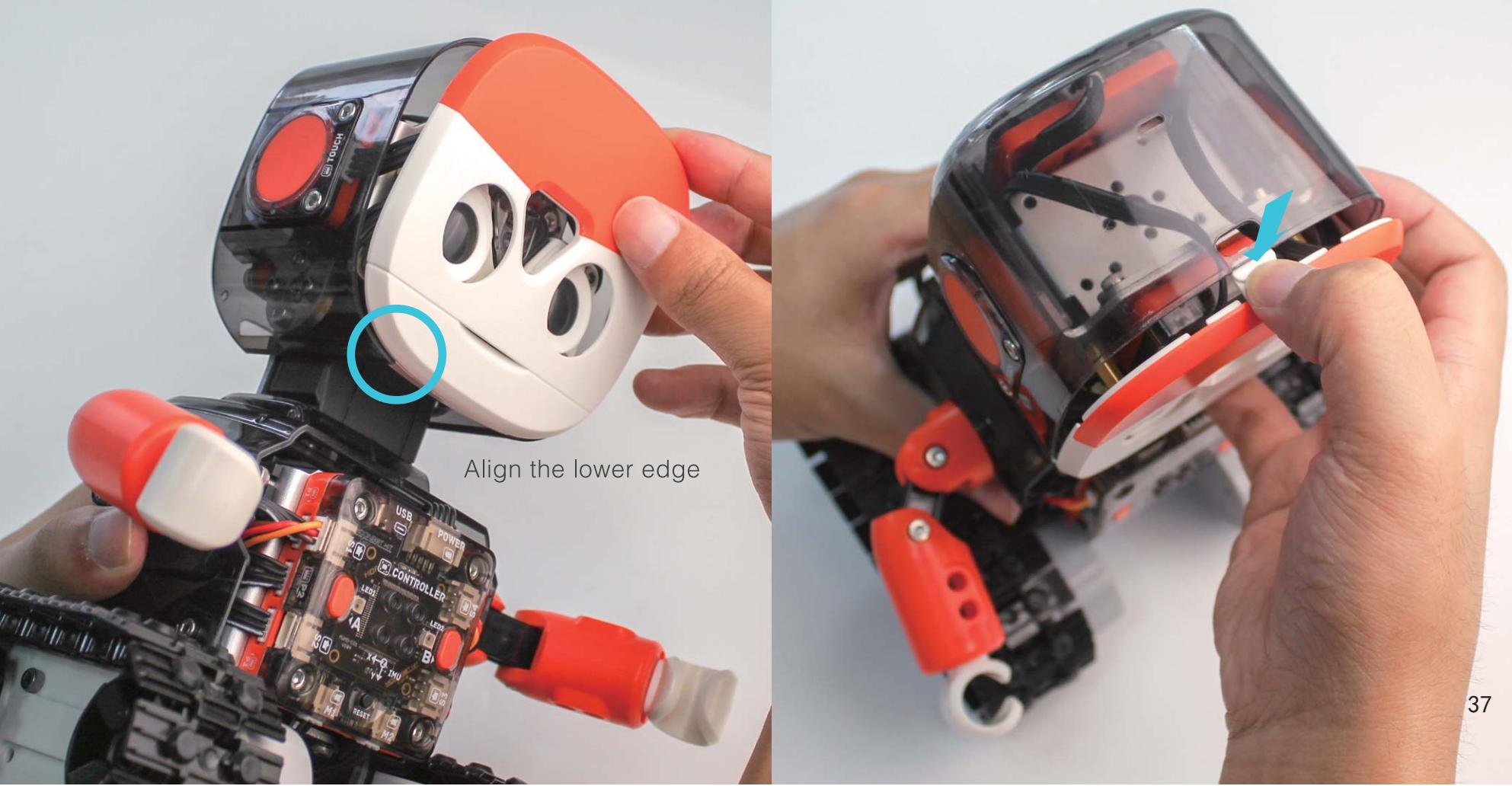


M3X4

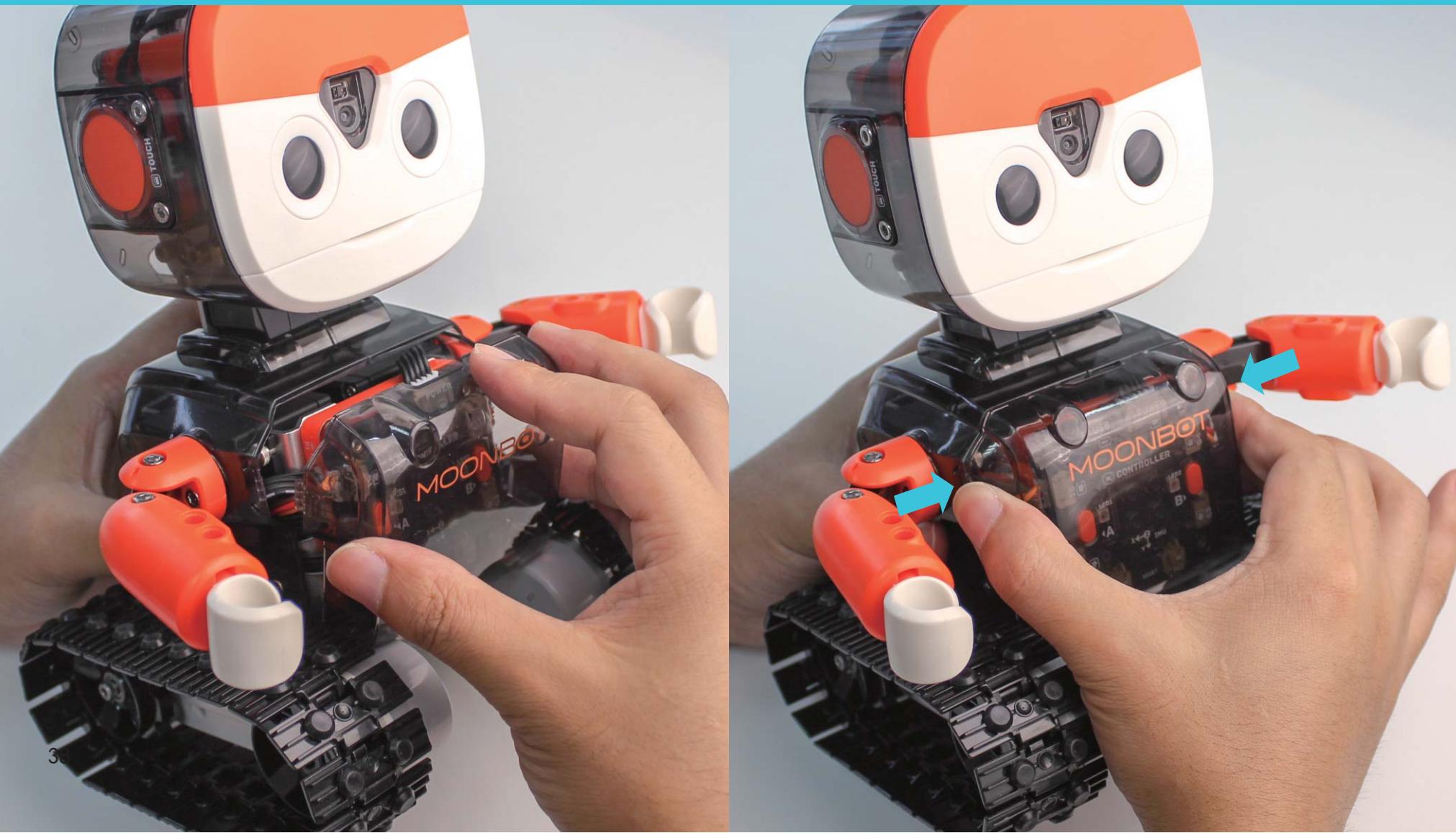
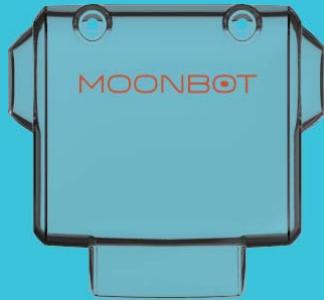
X2



27

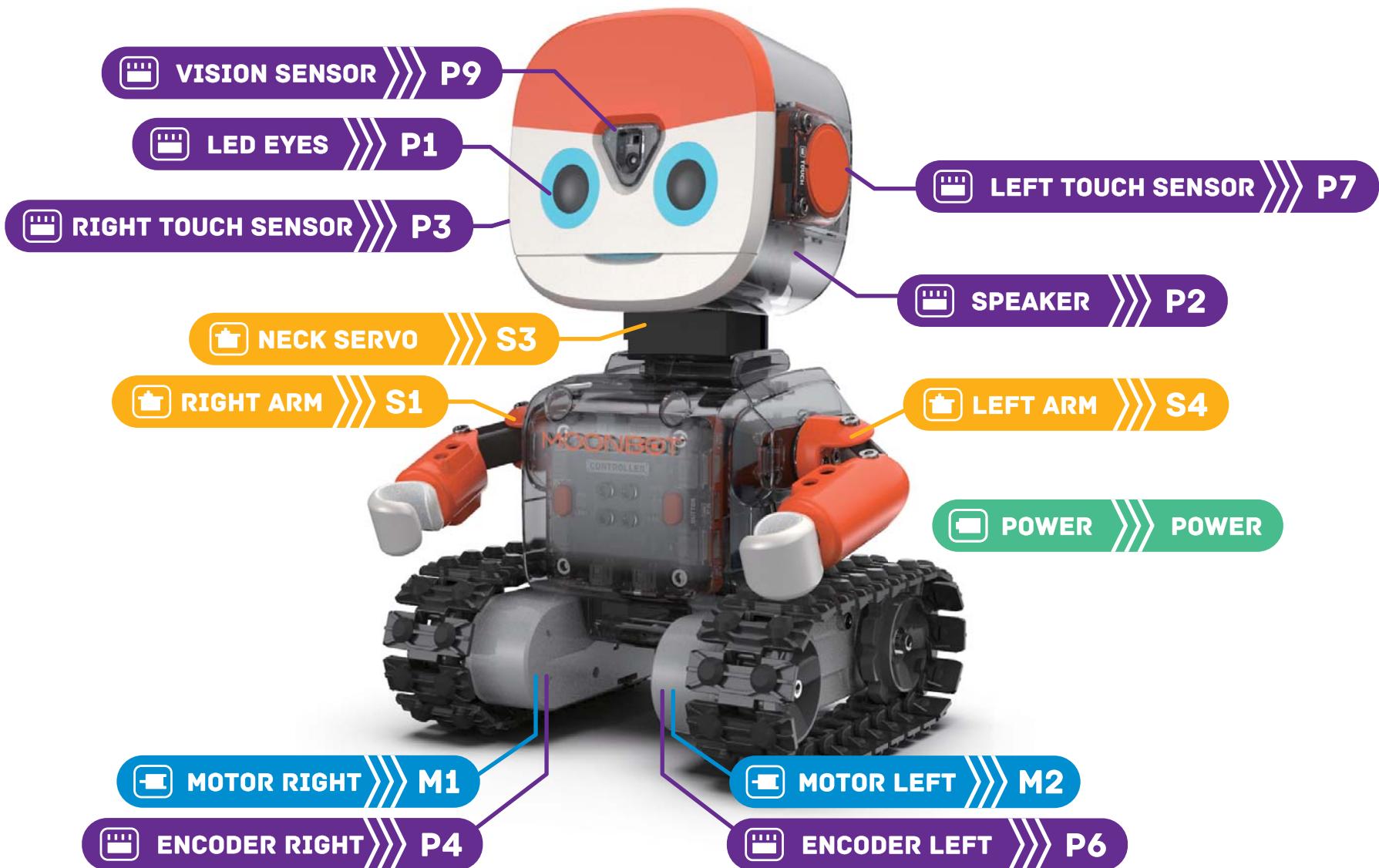


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# CHECK CONNECTIONS

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



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