

# MoonBot

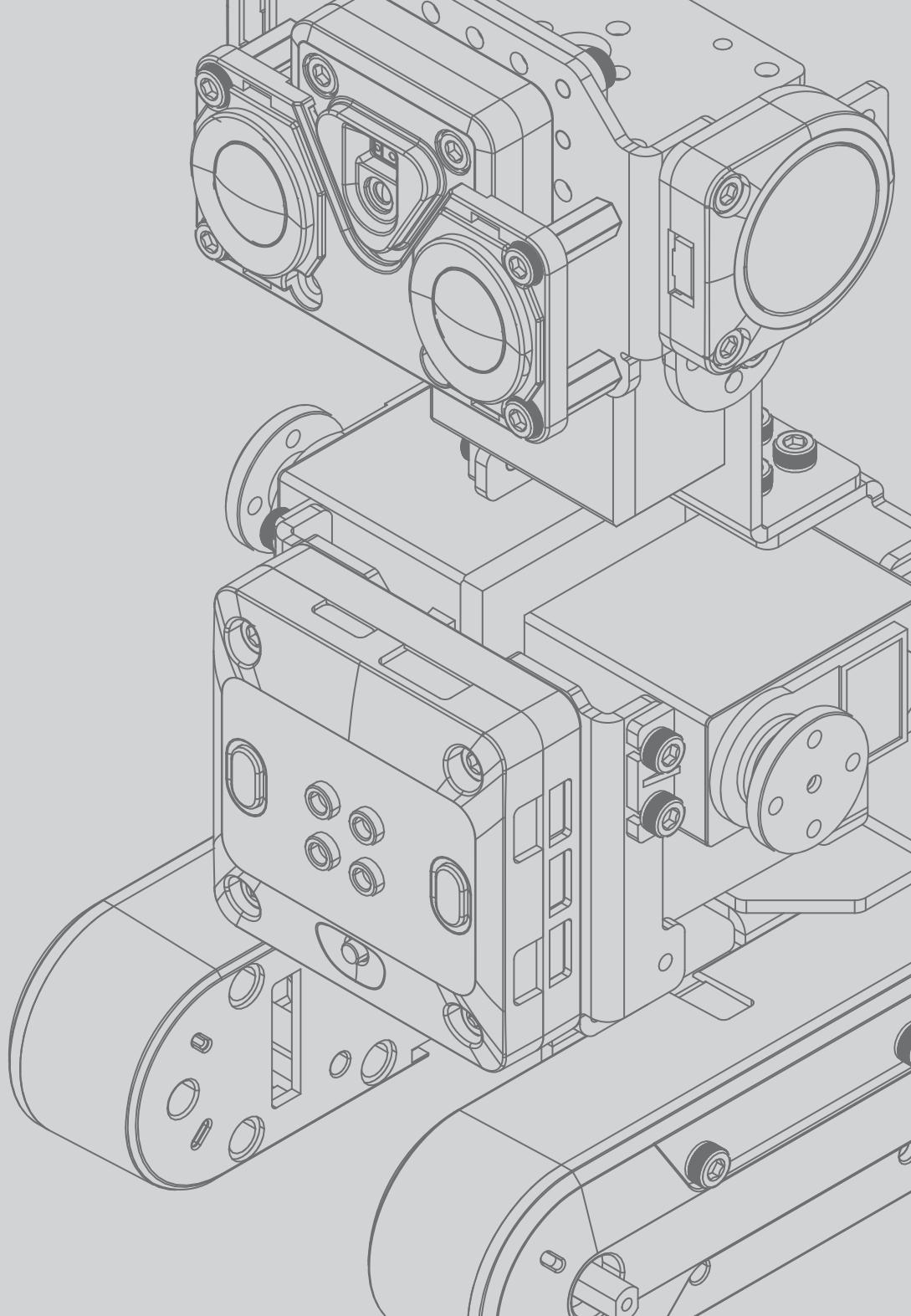
## Manual

**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	R3045

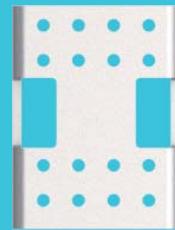
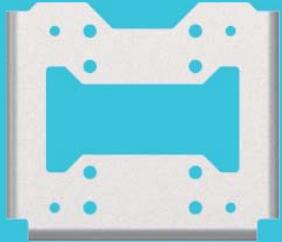


1:1

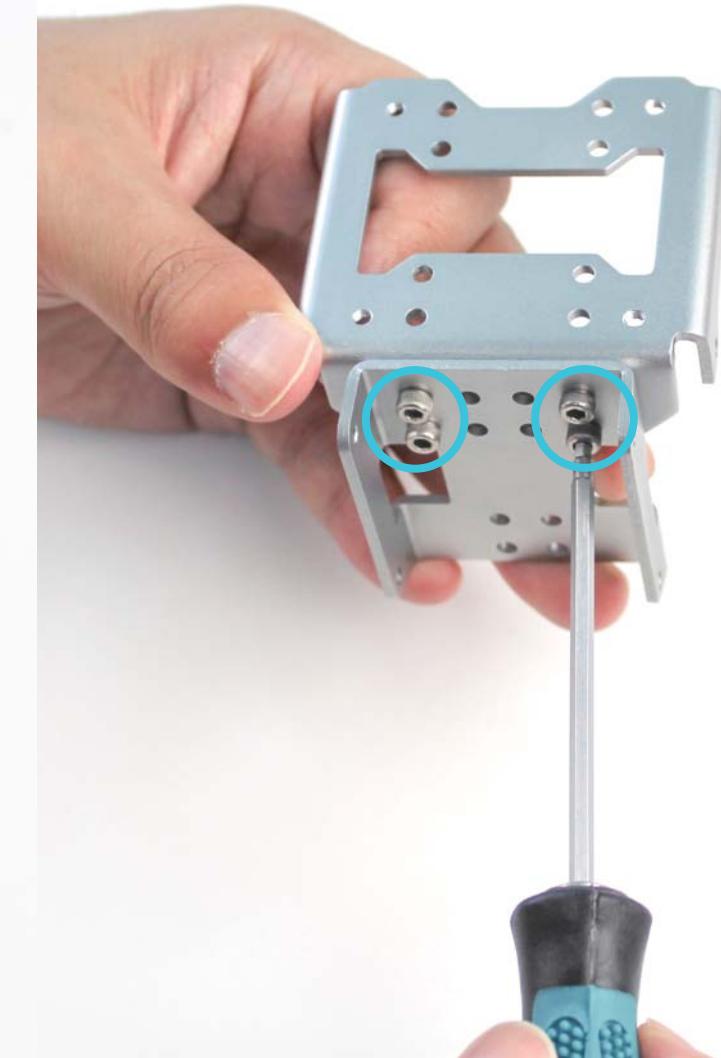
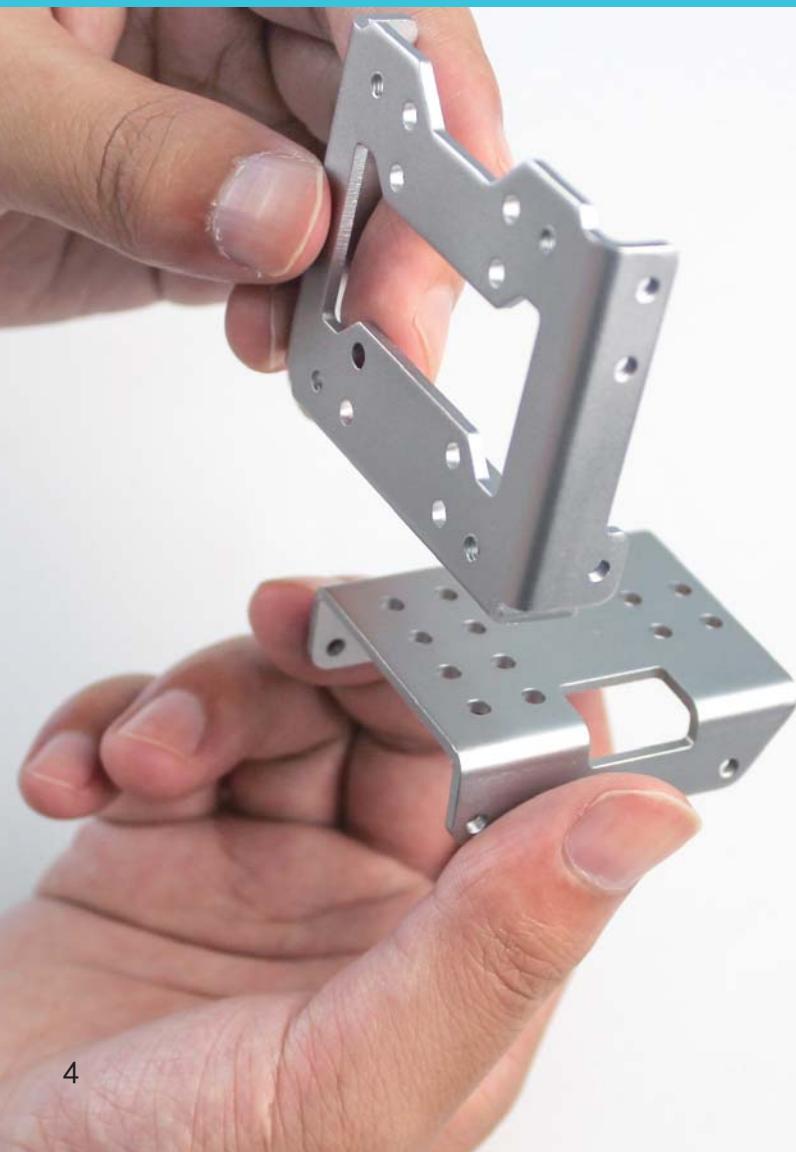


Please compare the length of the screw as shown in Figure 1:1.

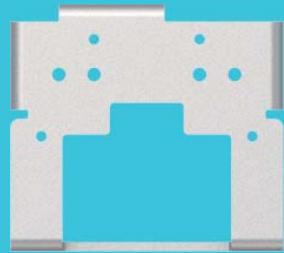
1



X4

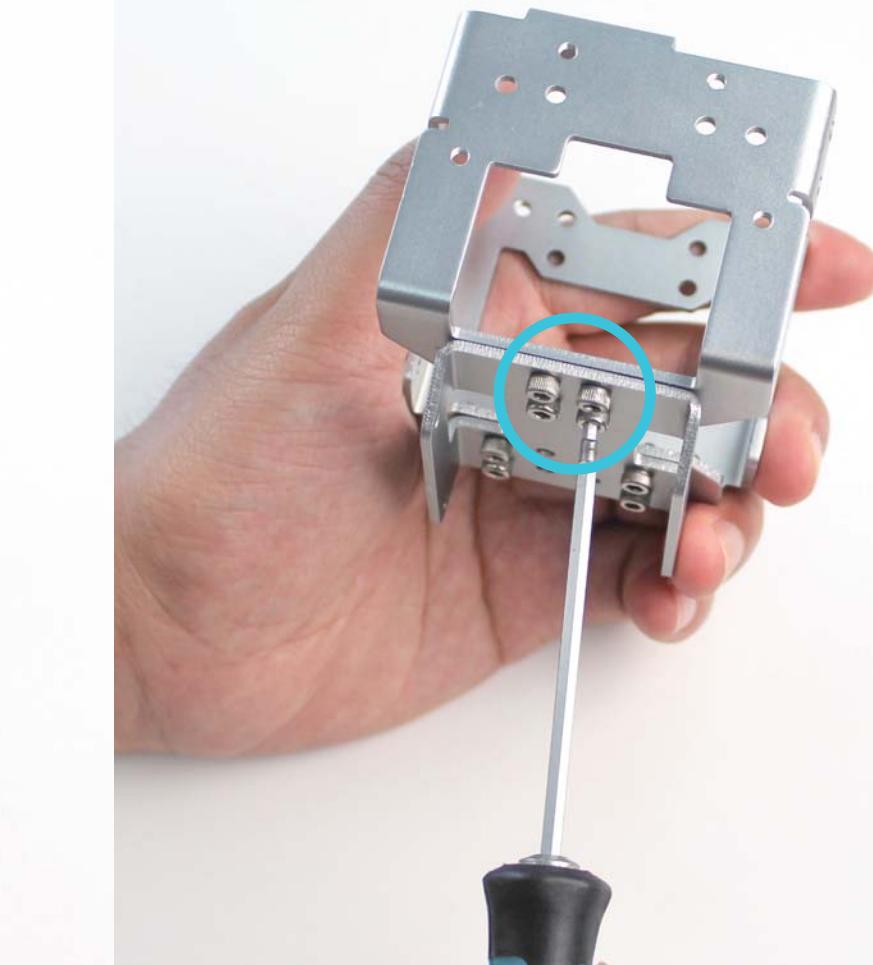
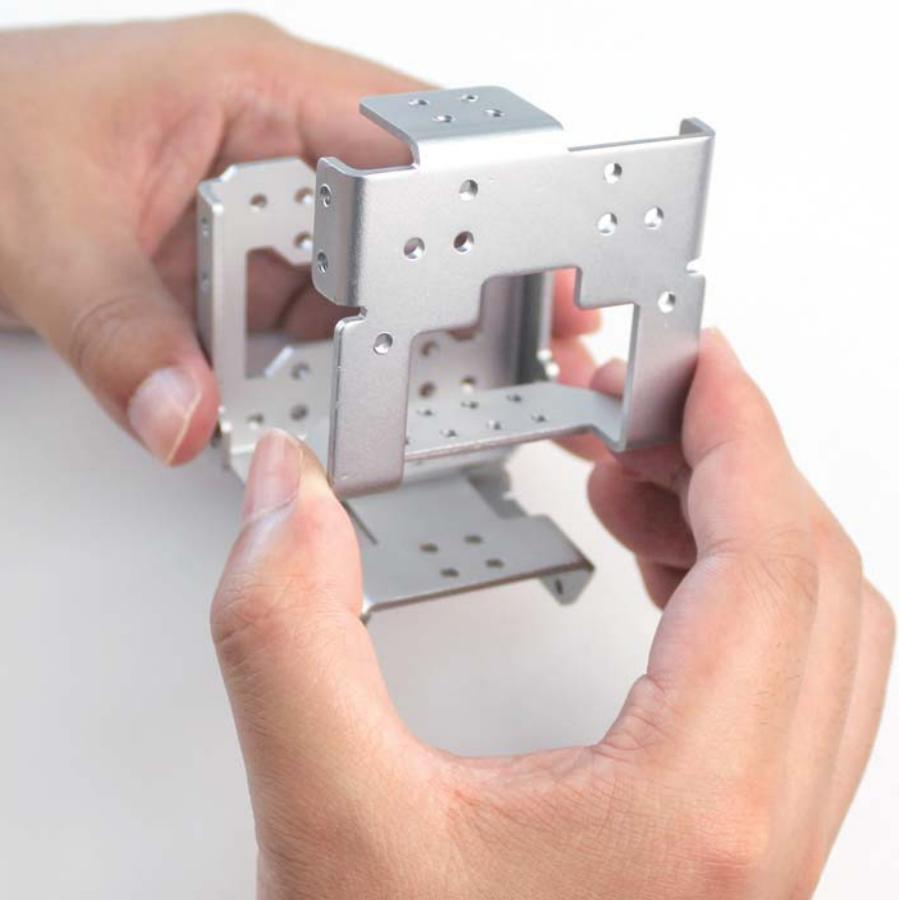


2



M3X4

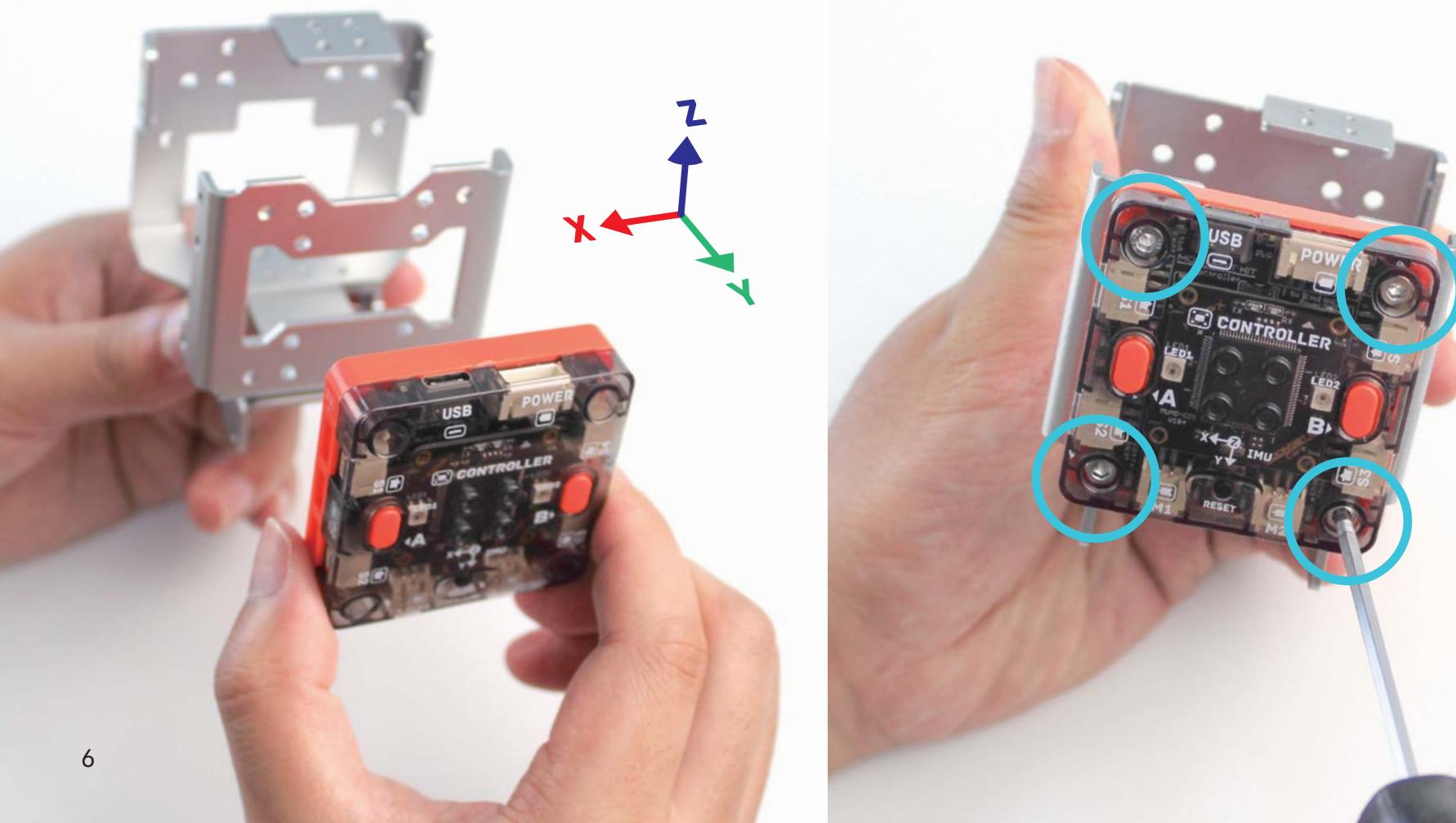
X4



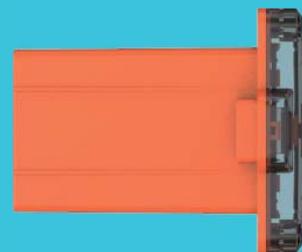
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X4



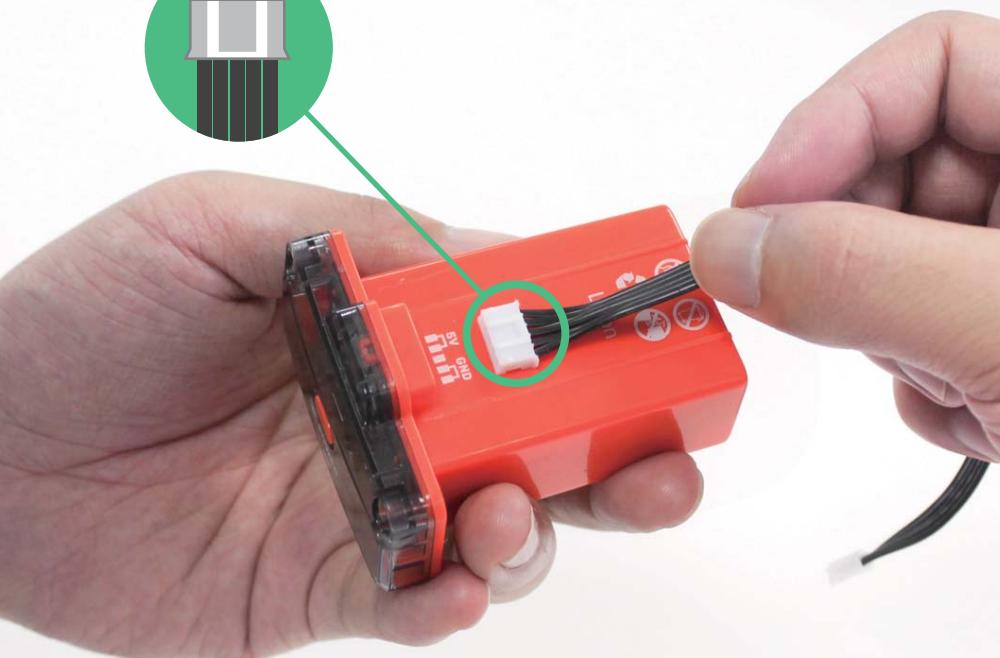
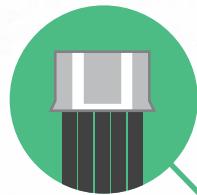
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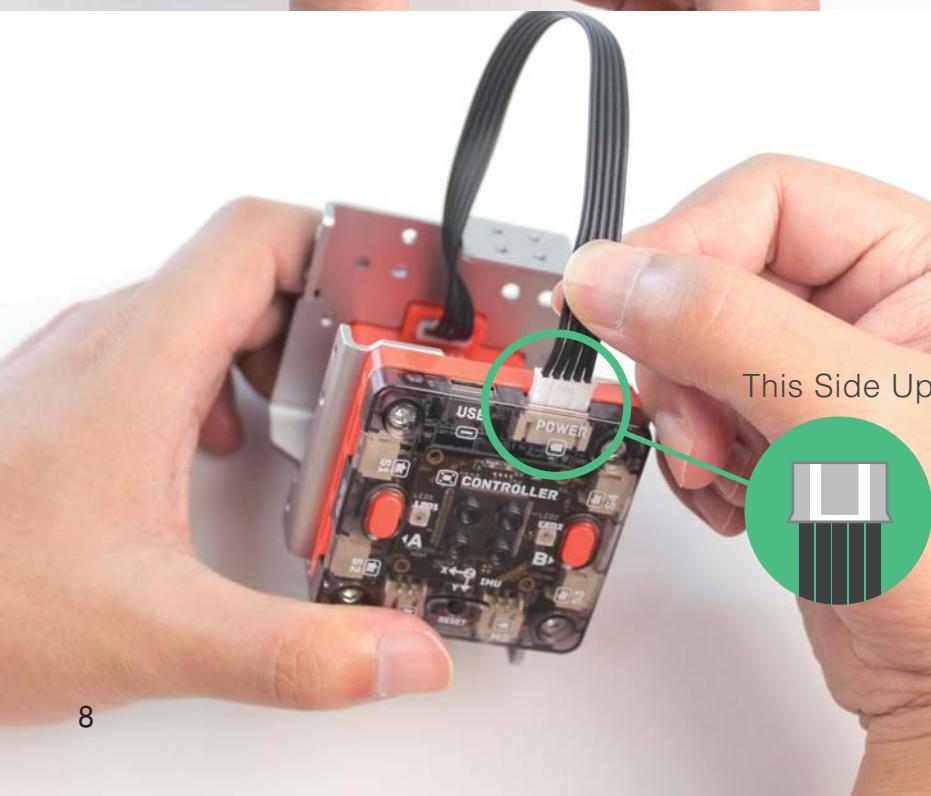
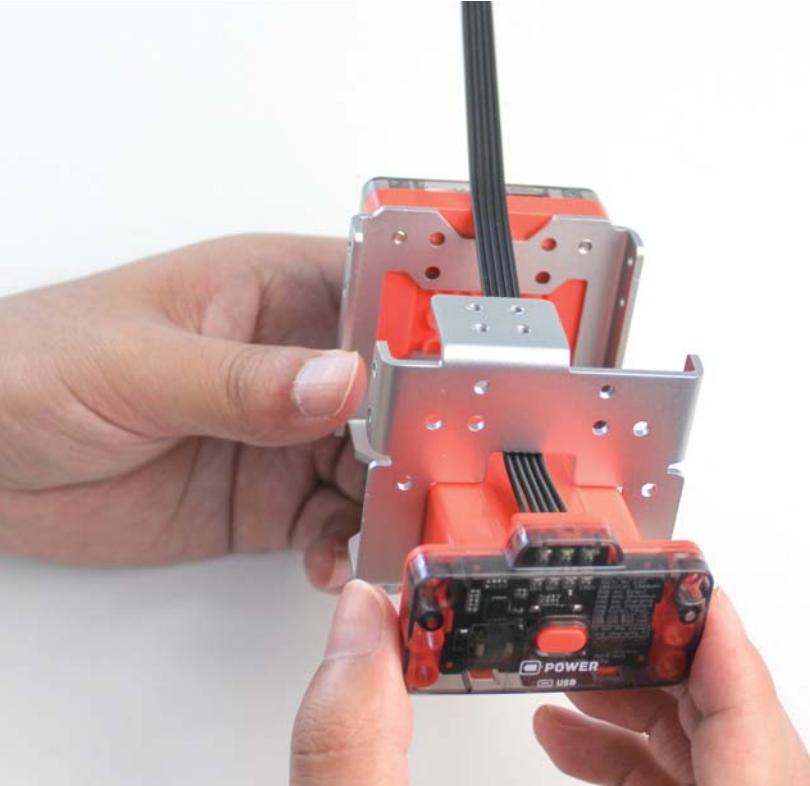


X2



This Side Up



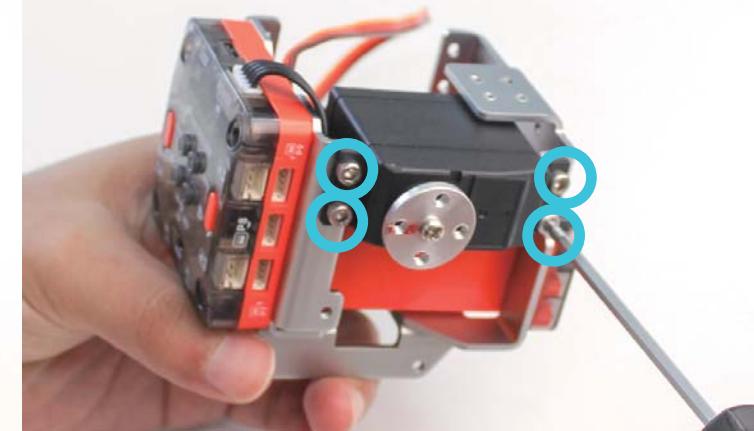
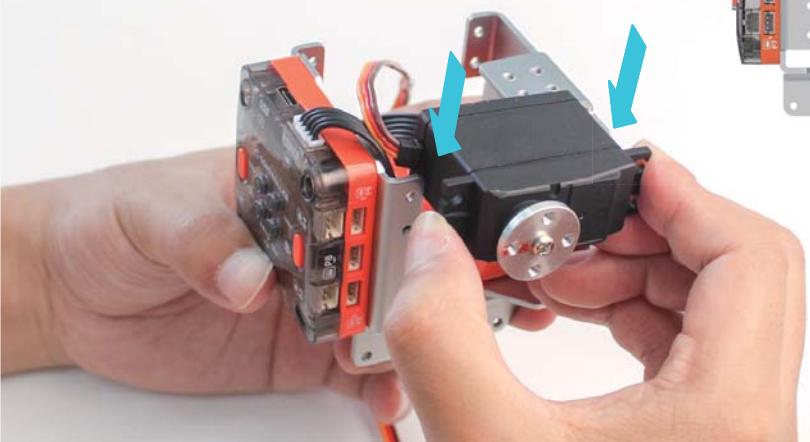
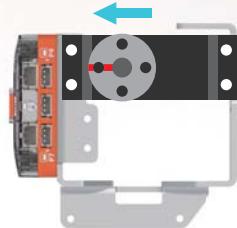


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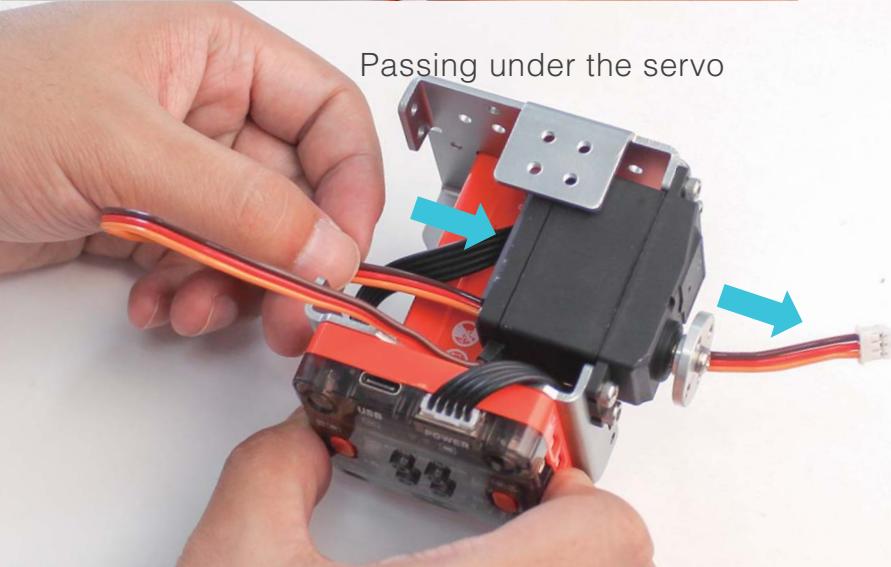


M3X4  
X4

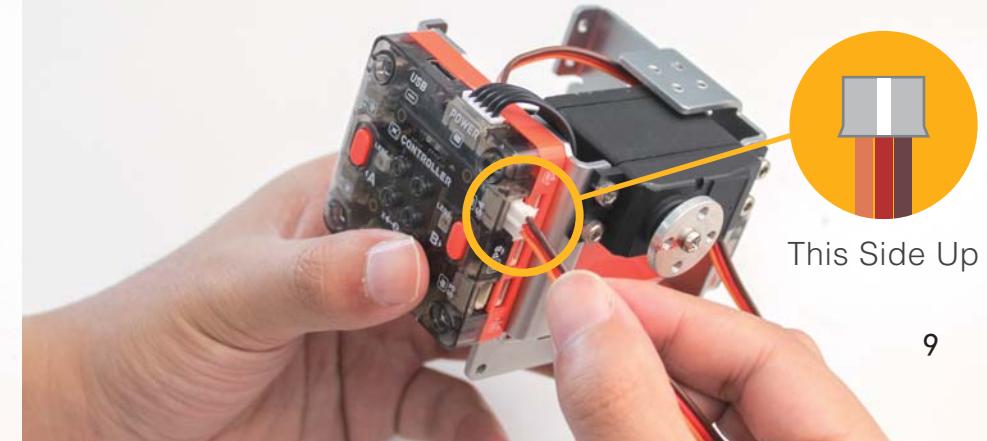
Please keep the servo arm close to the controller side



Passing under the servo



LEFT ARM » S4

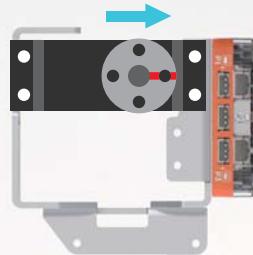


6

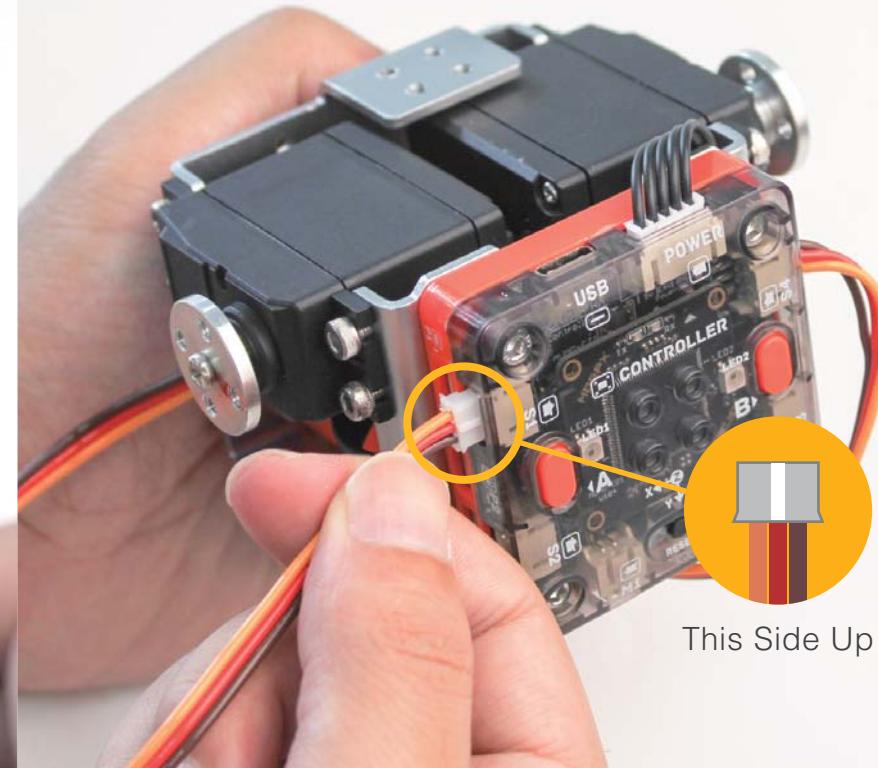
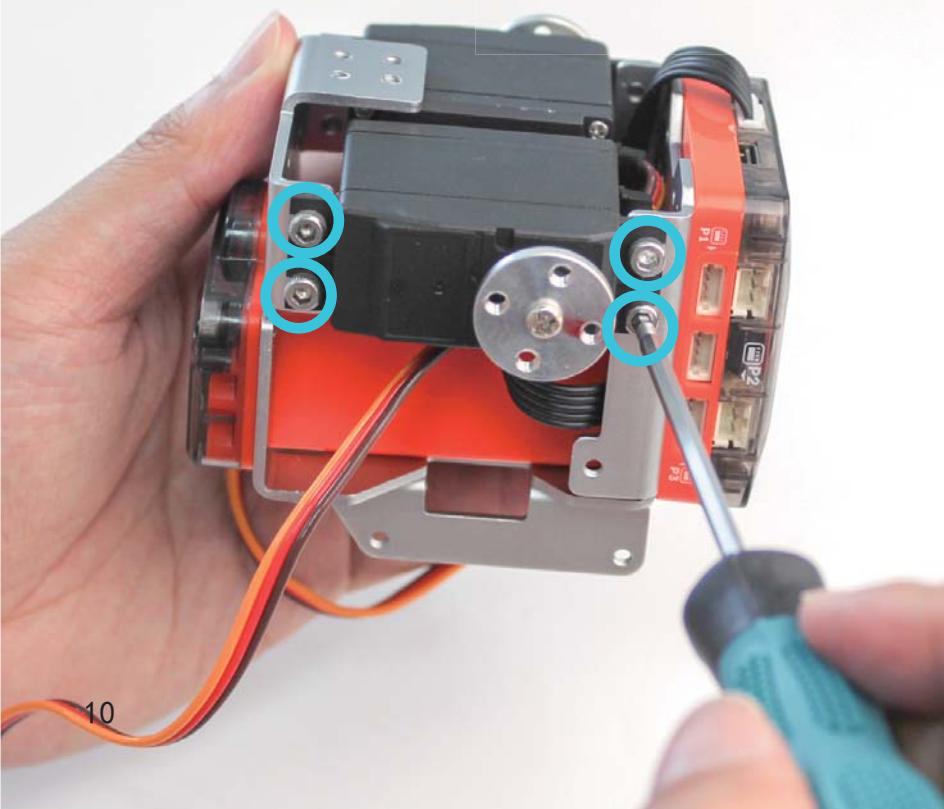


M3X4  
X4

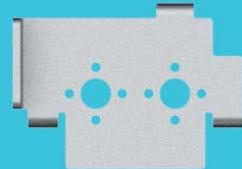
X4



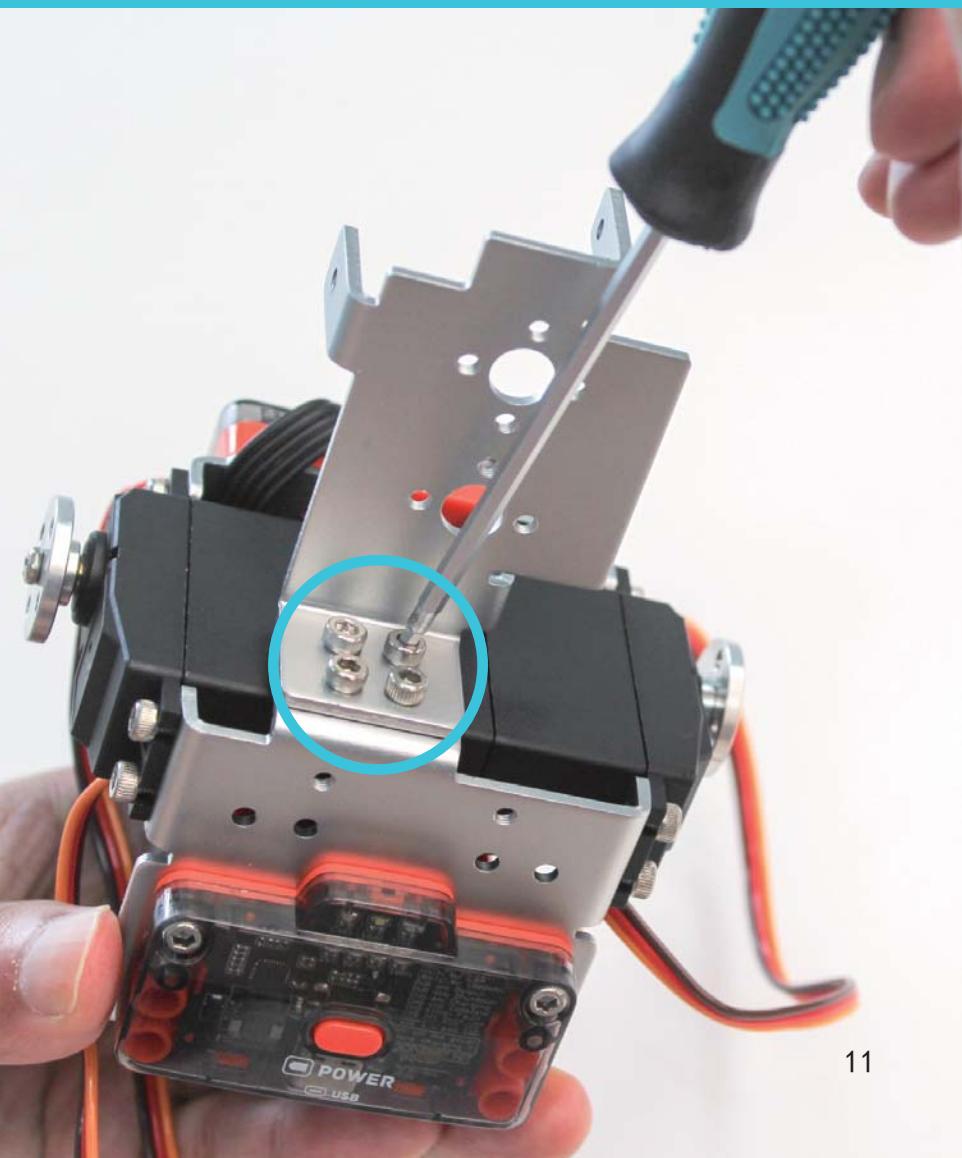
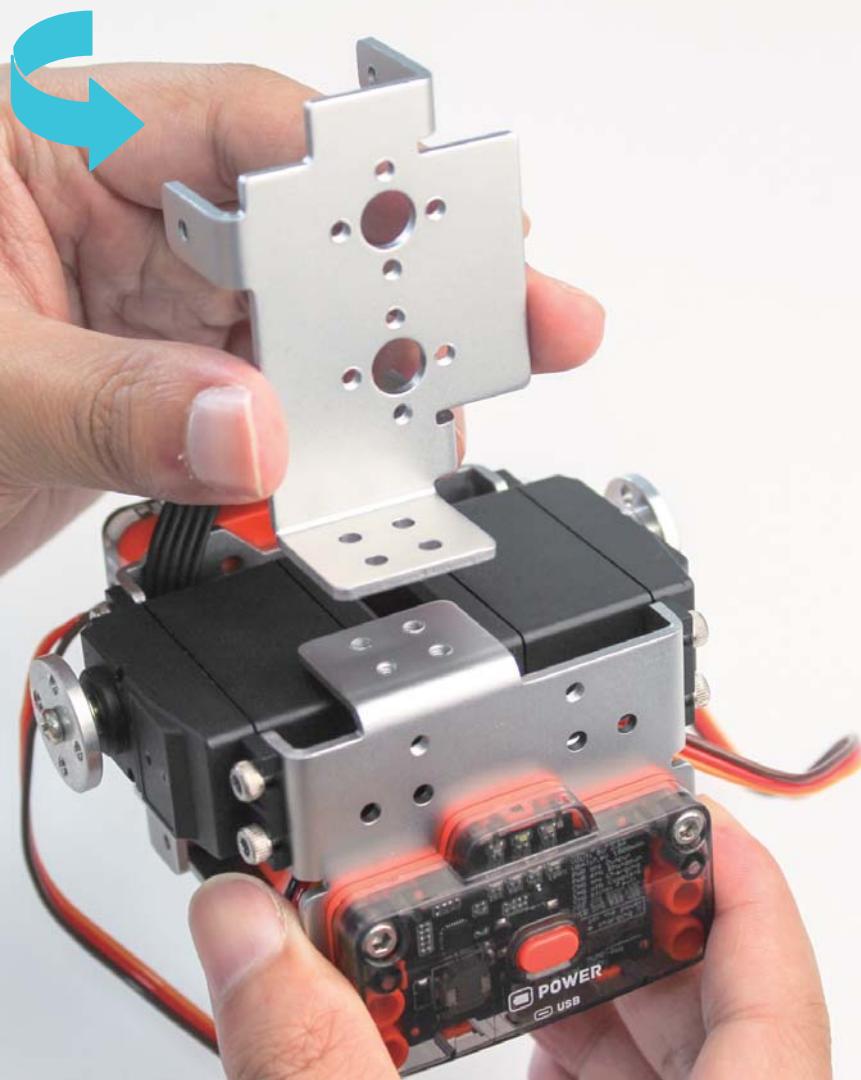
RIGHT ARM >> S1



7



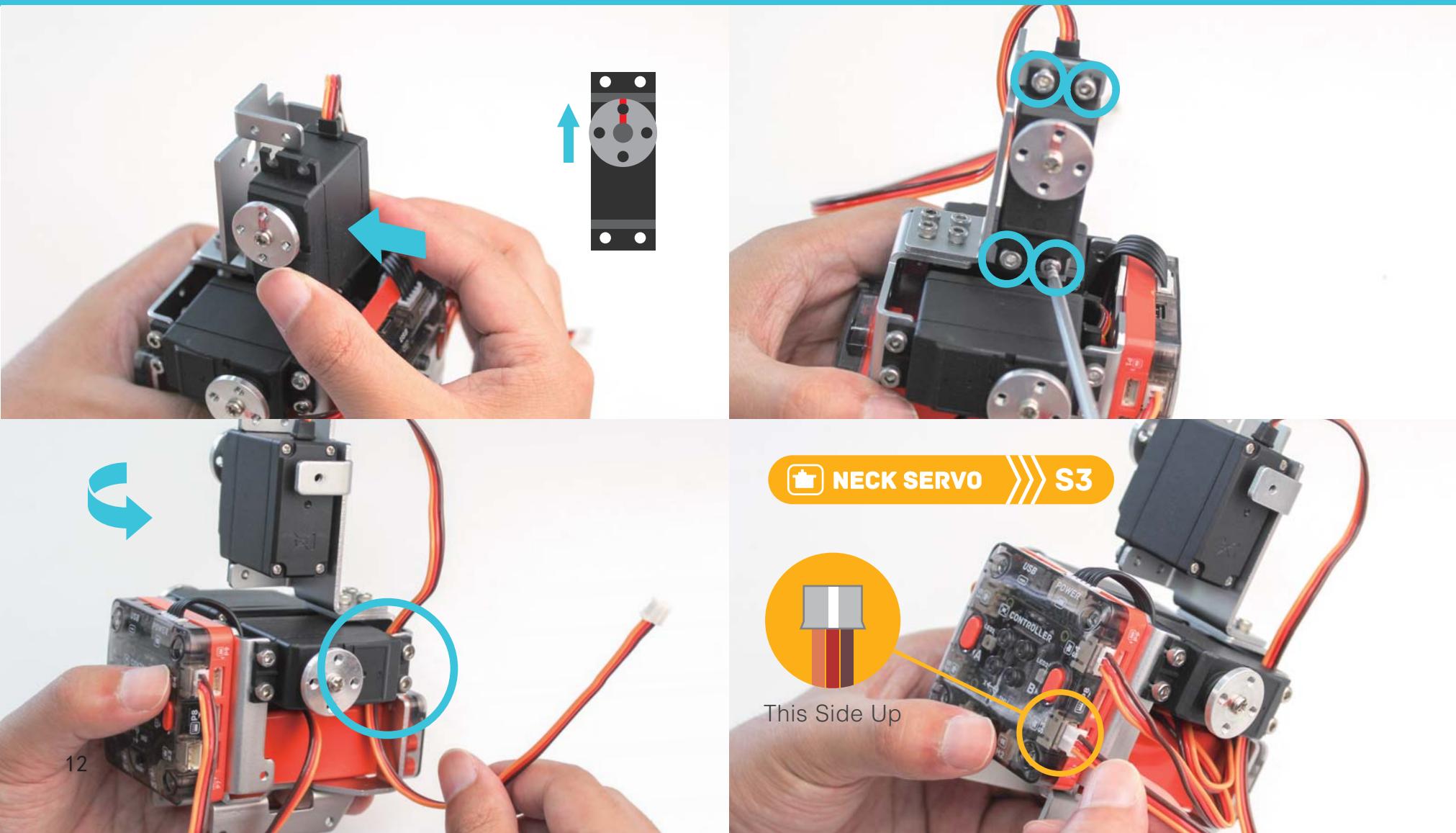
M3X4  
X4



8



X4



# 9

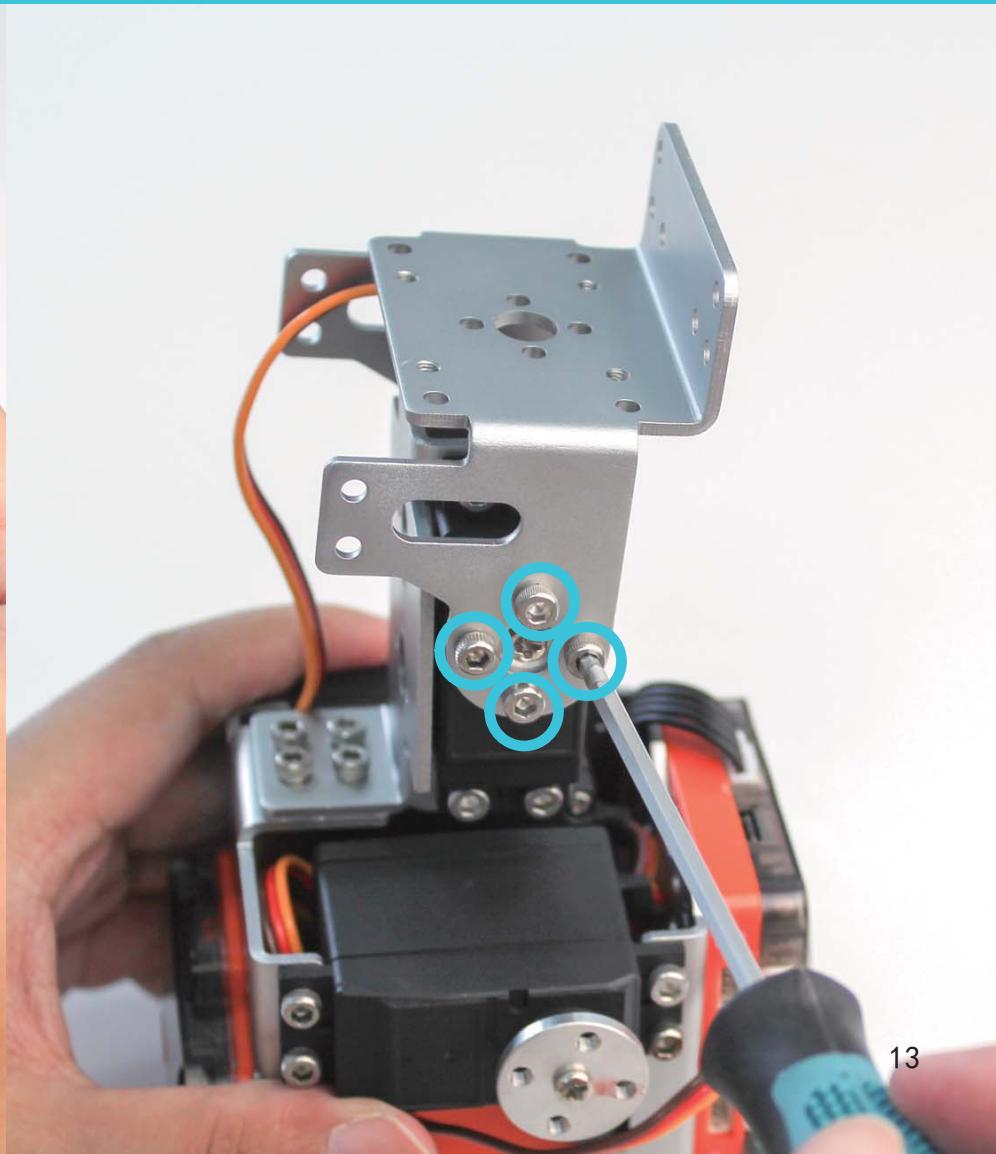
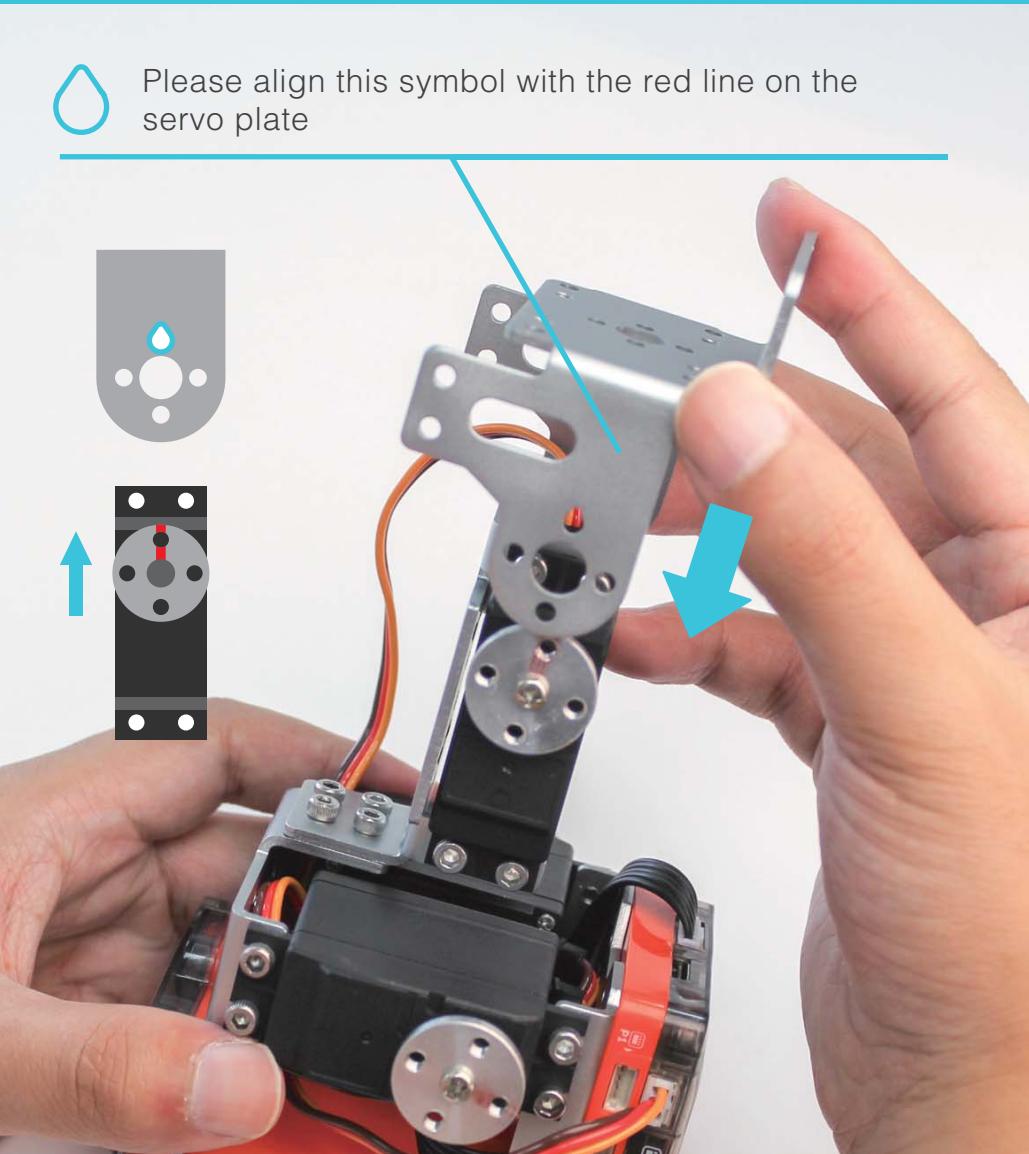


M3X4  
x4

x4



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



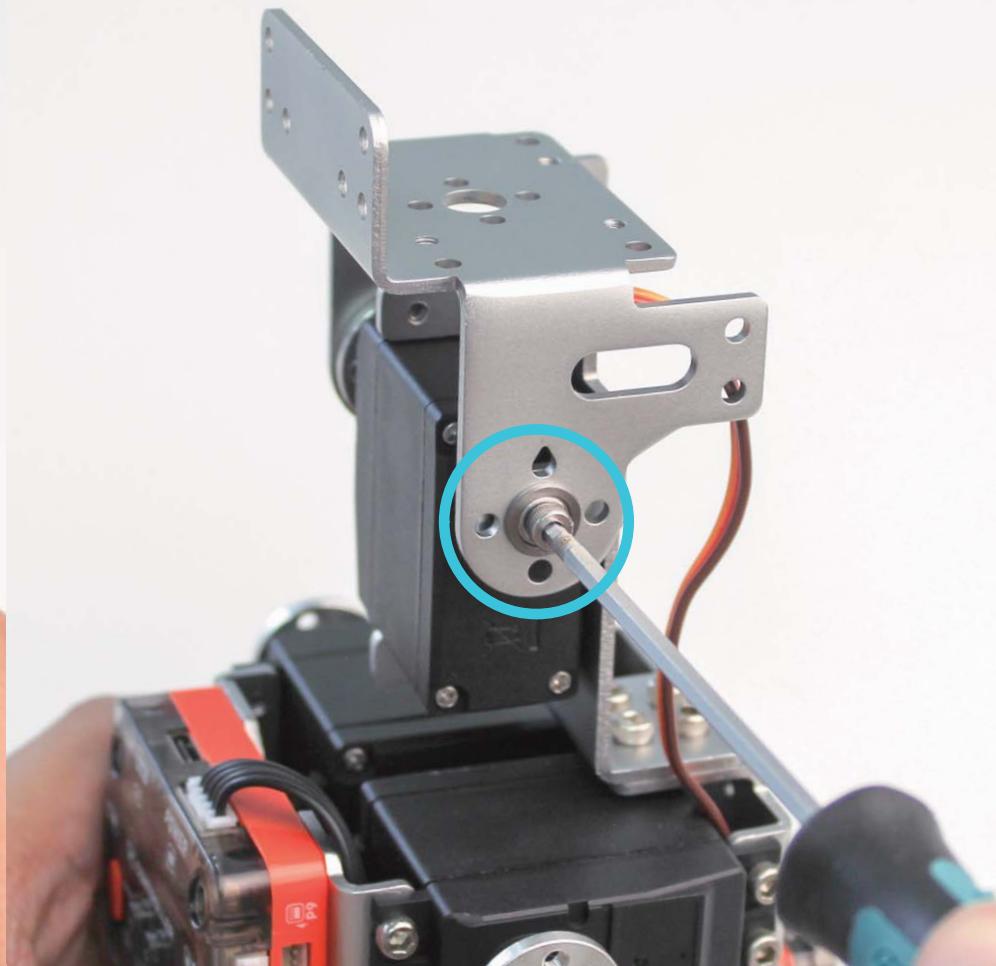
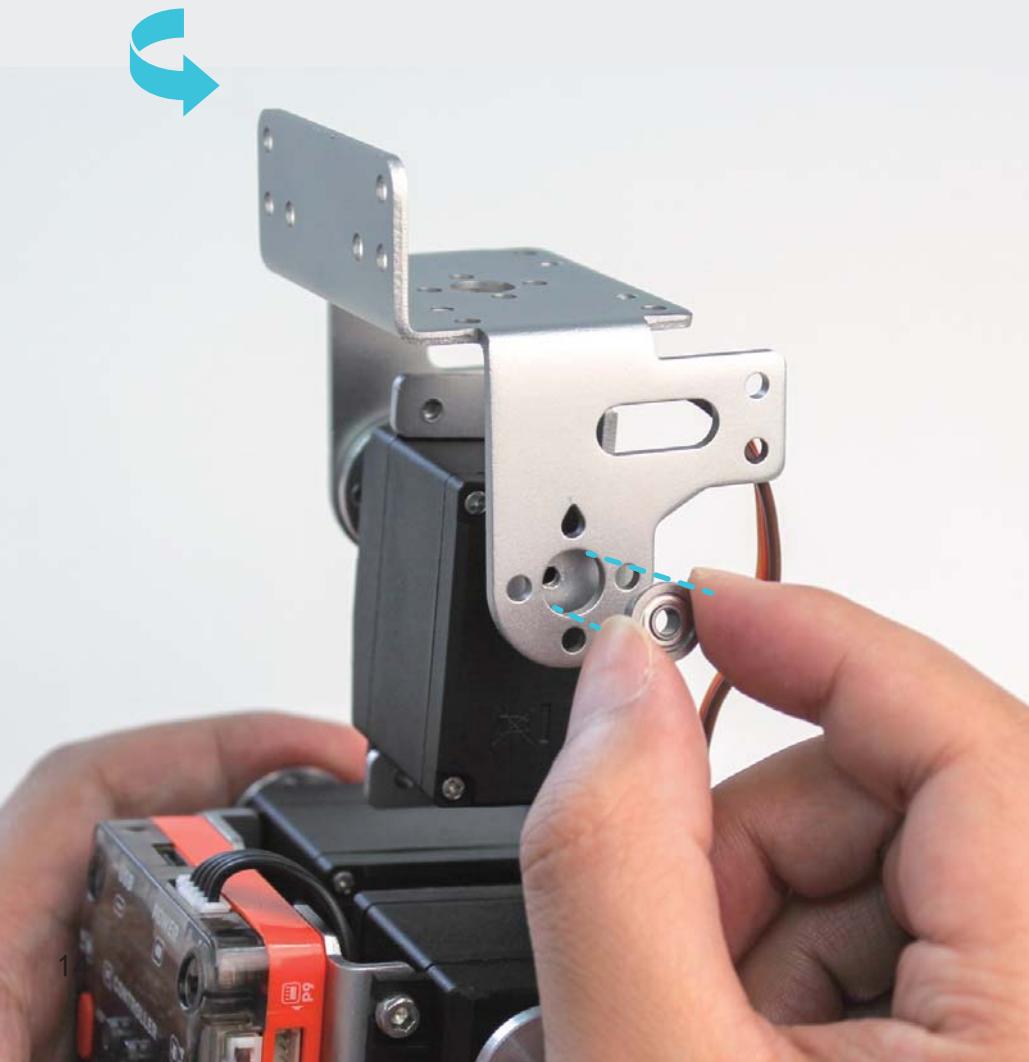
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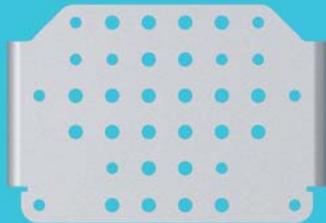
BEARING



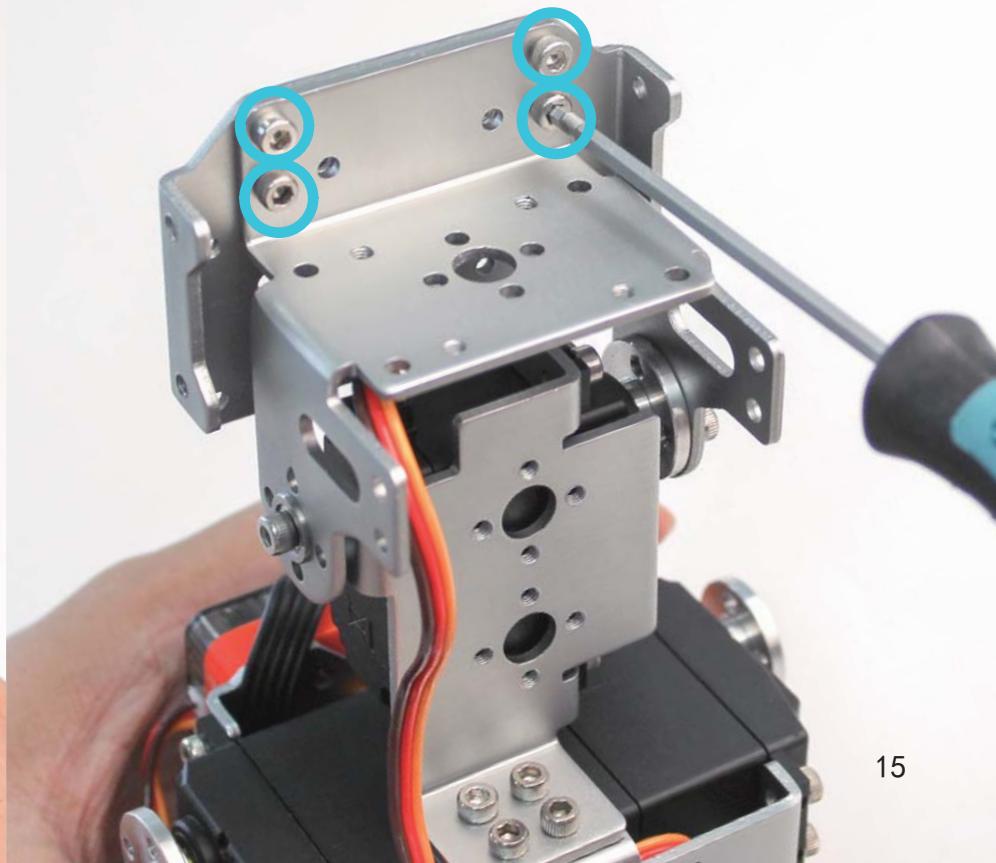
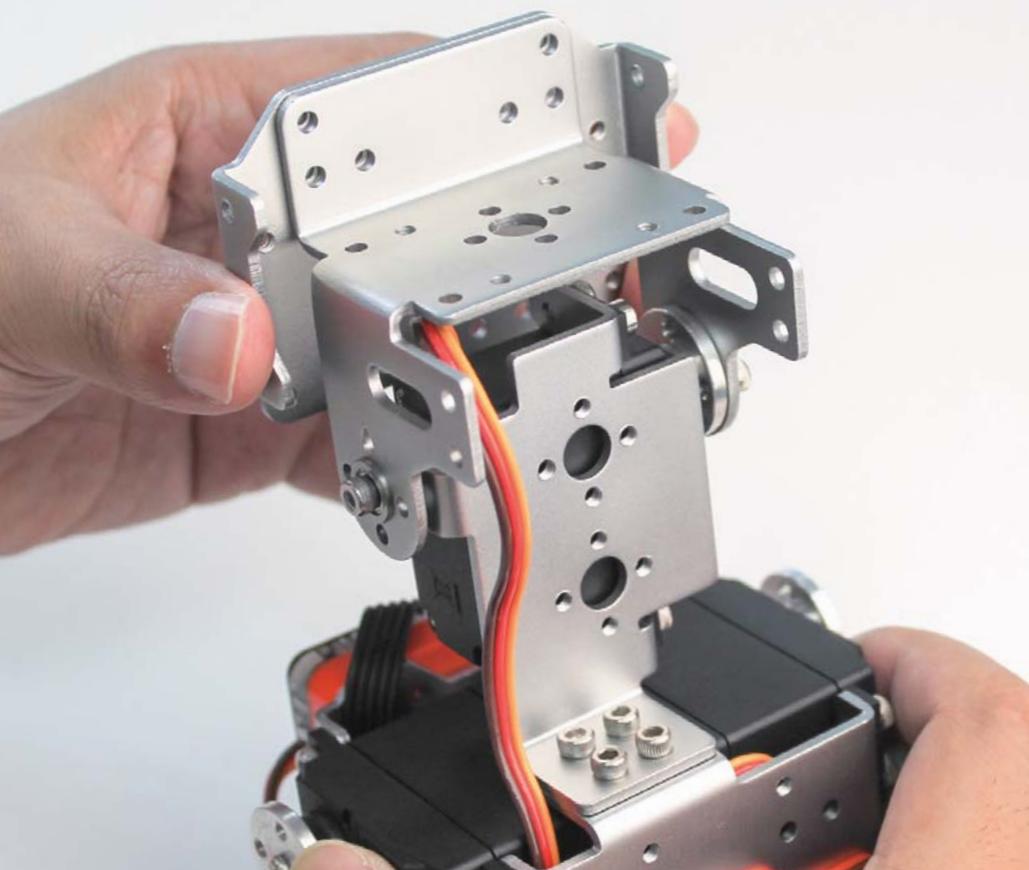
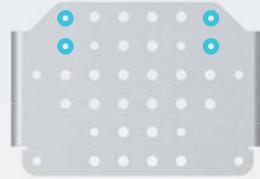
M3X8



11



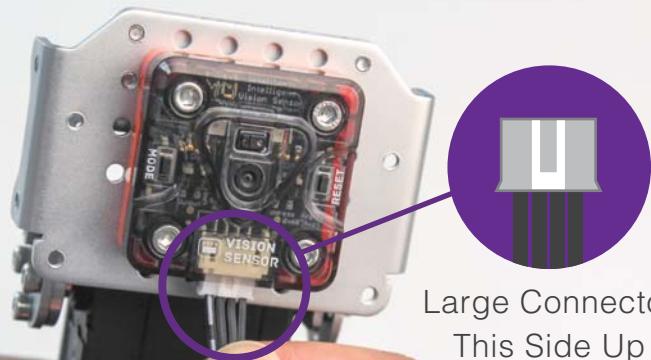
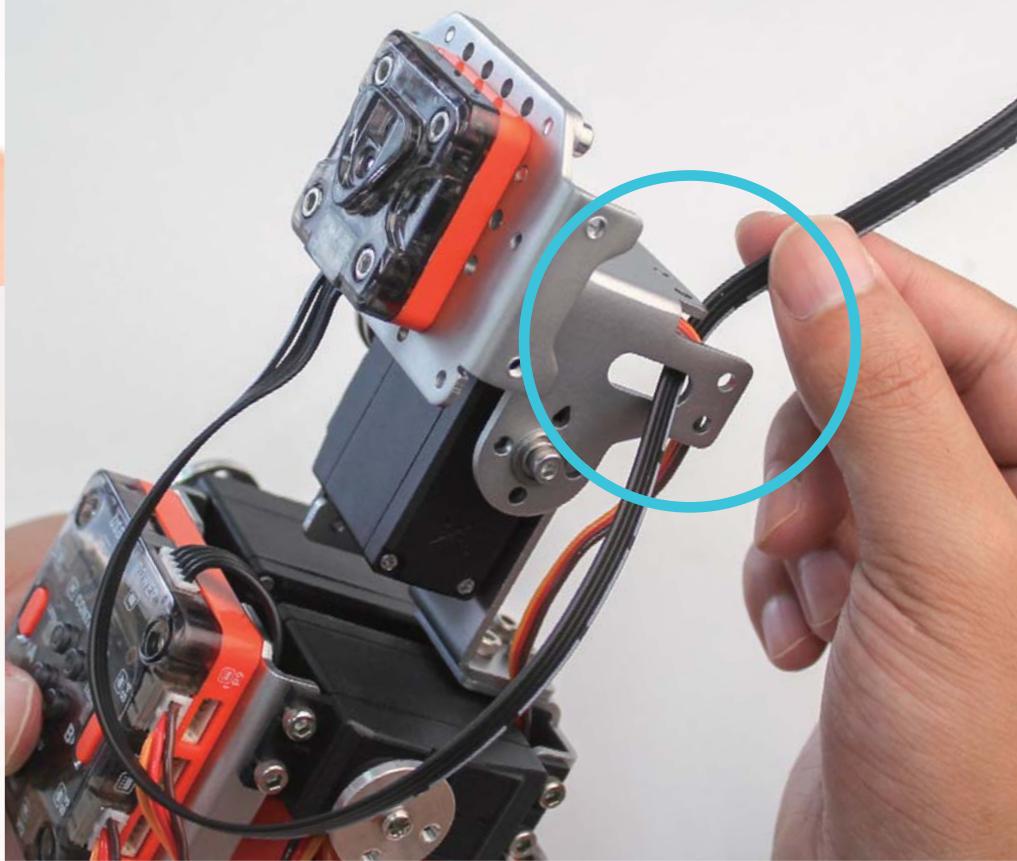
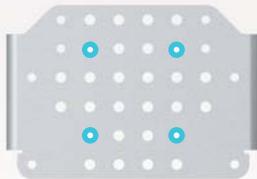
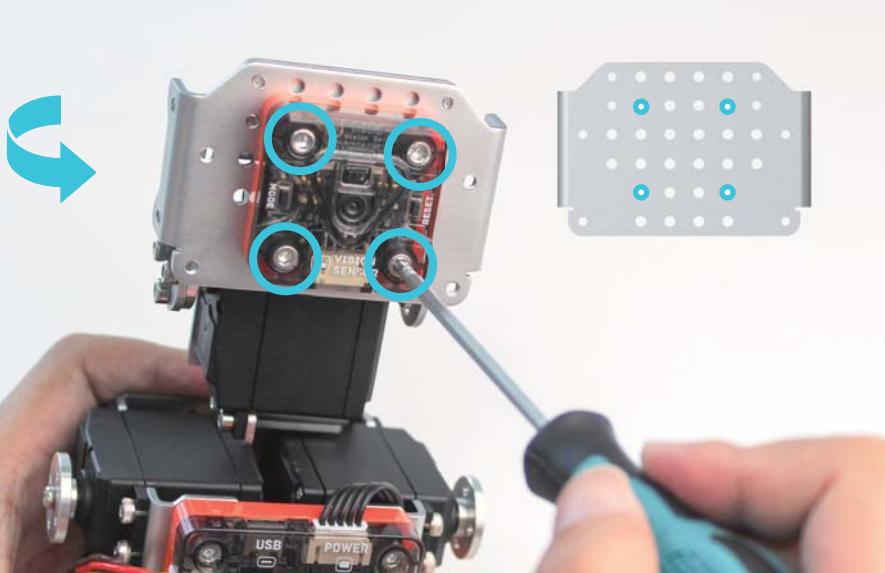
X4



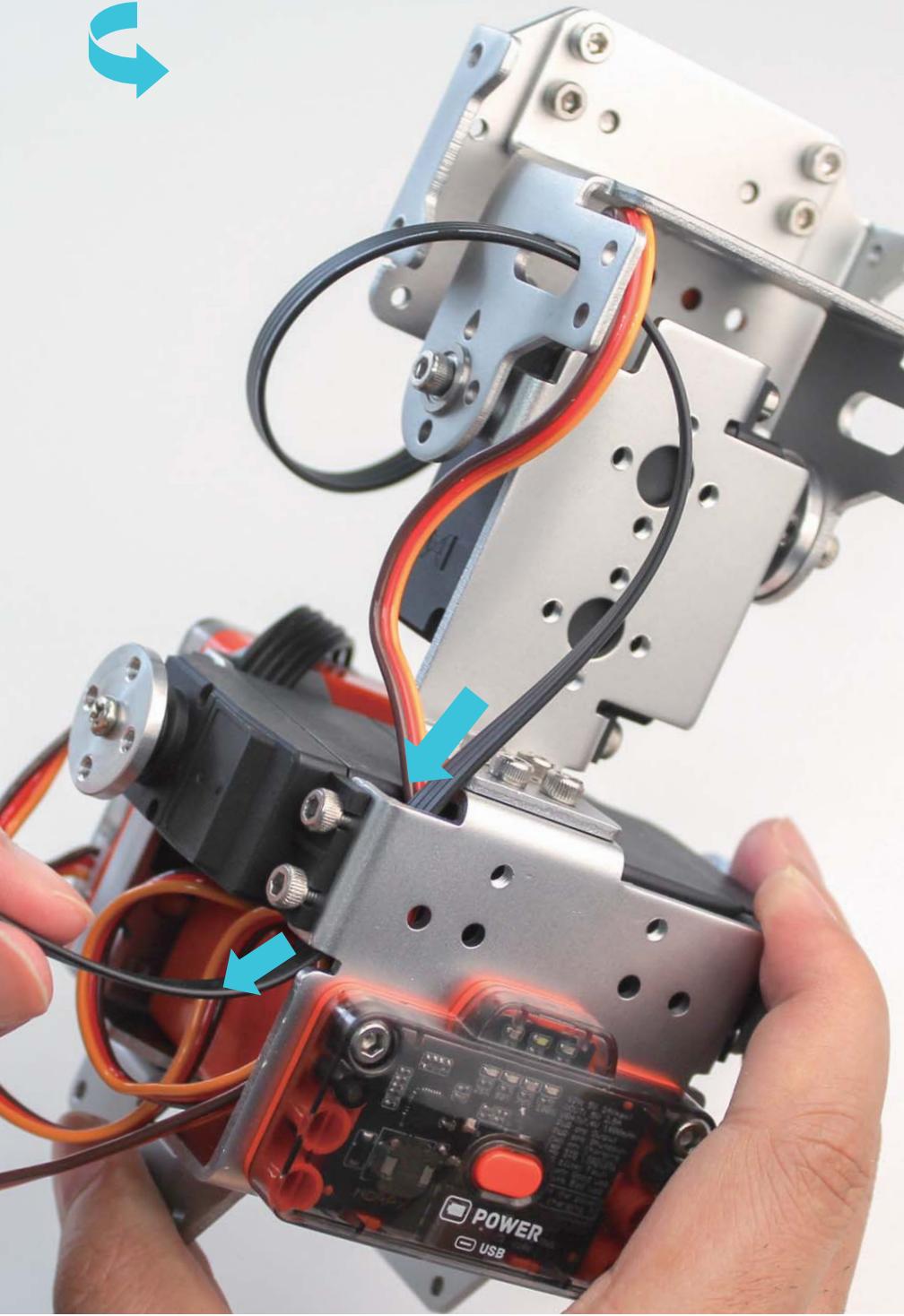
# 12



X2



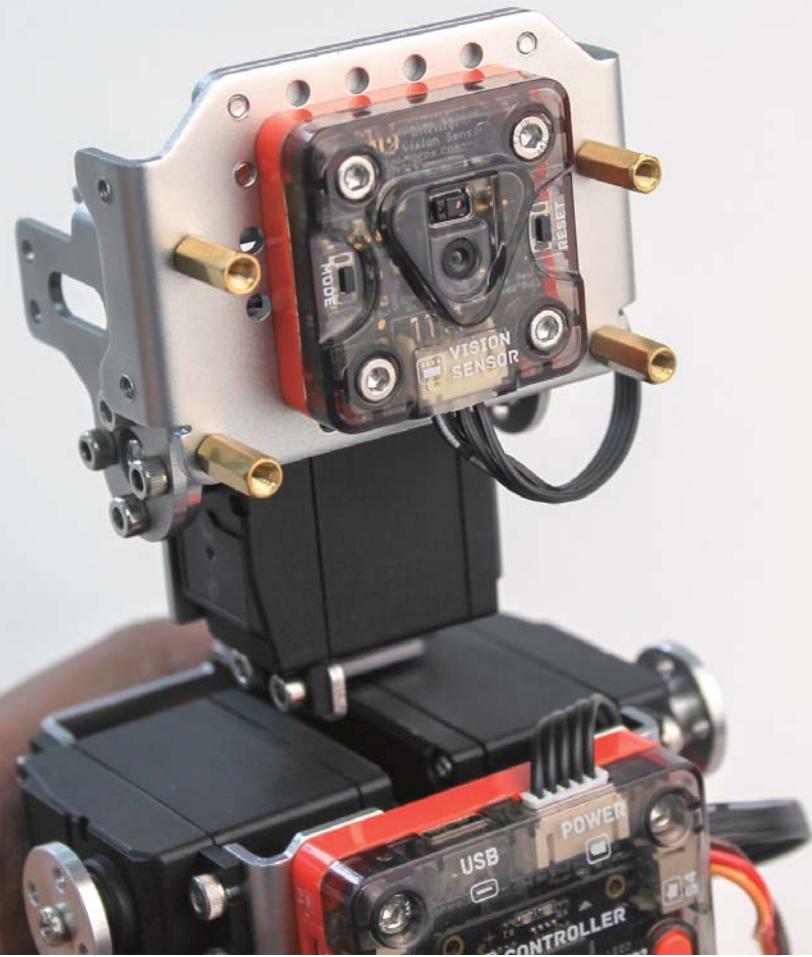
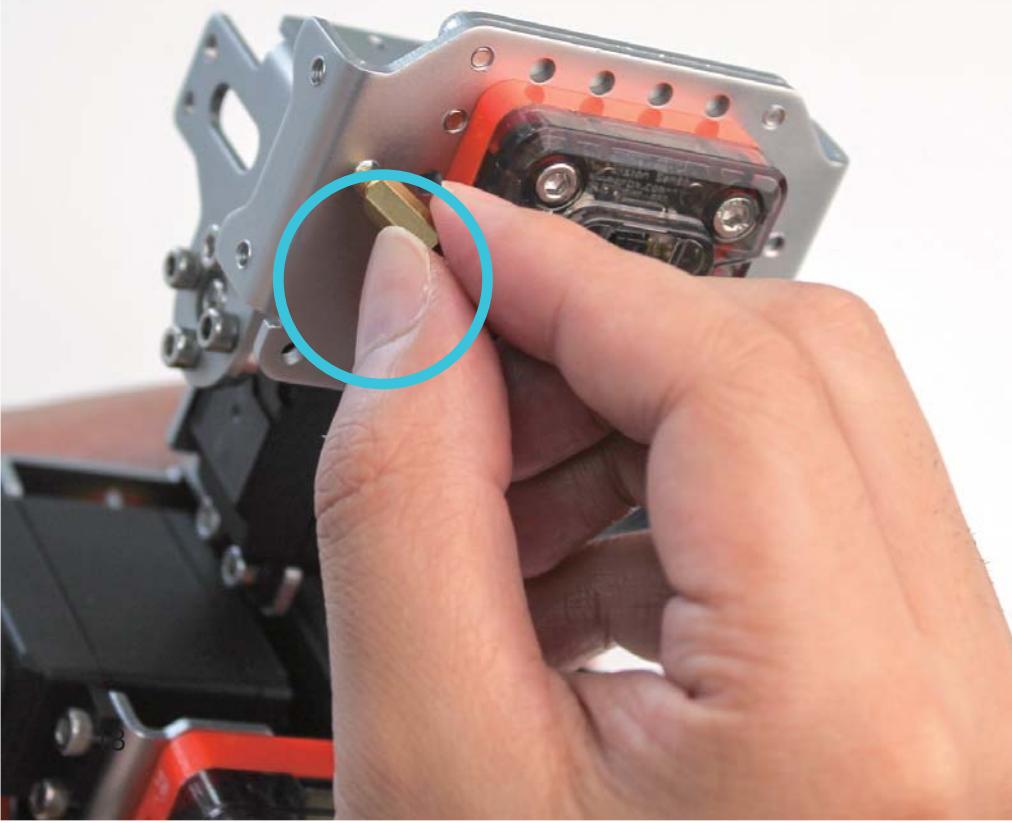
Large Connector  
This Side Up



13



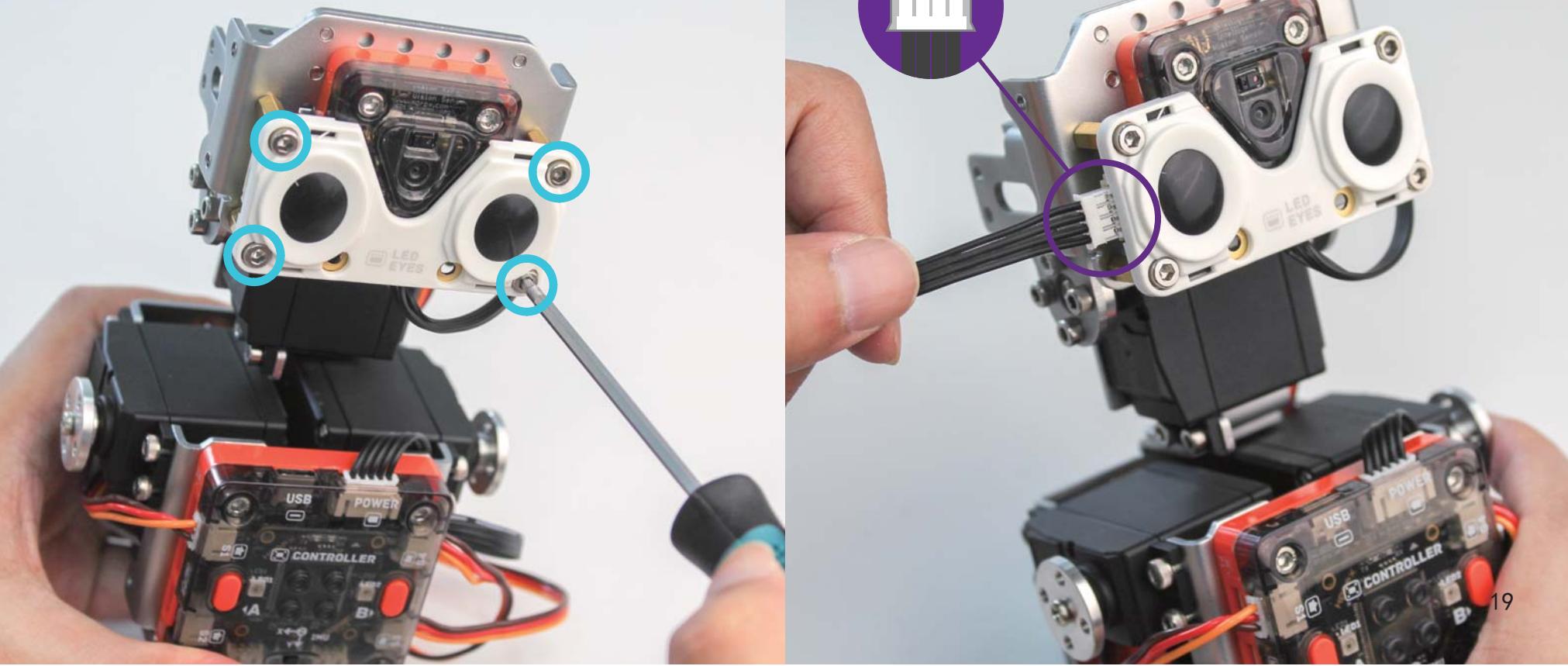
X4



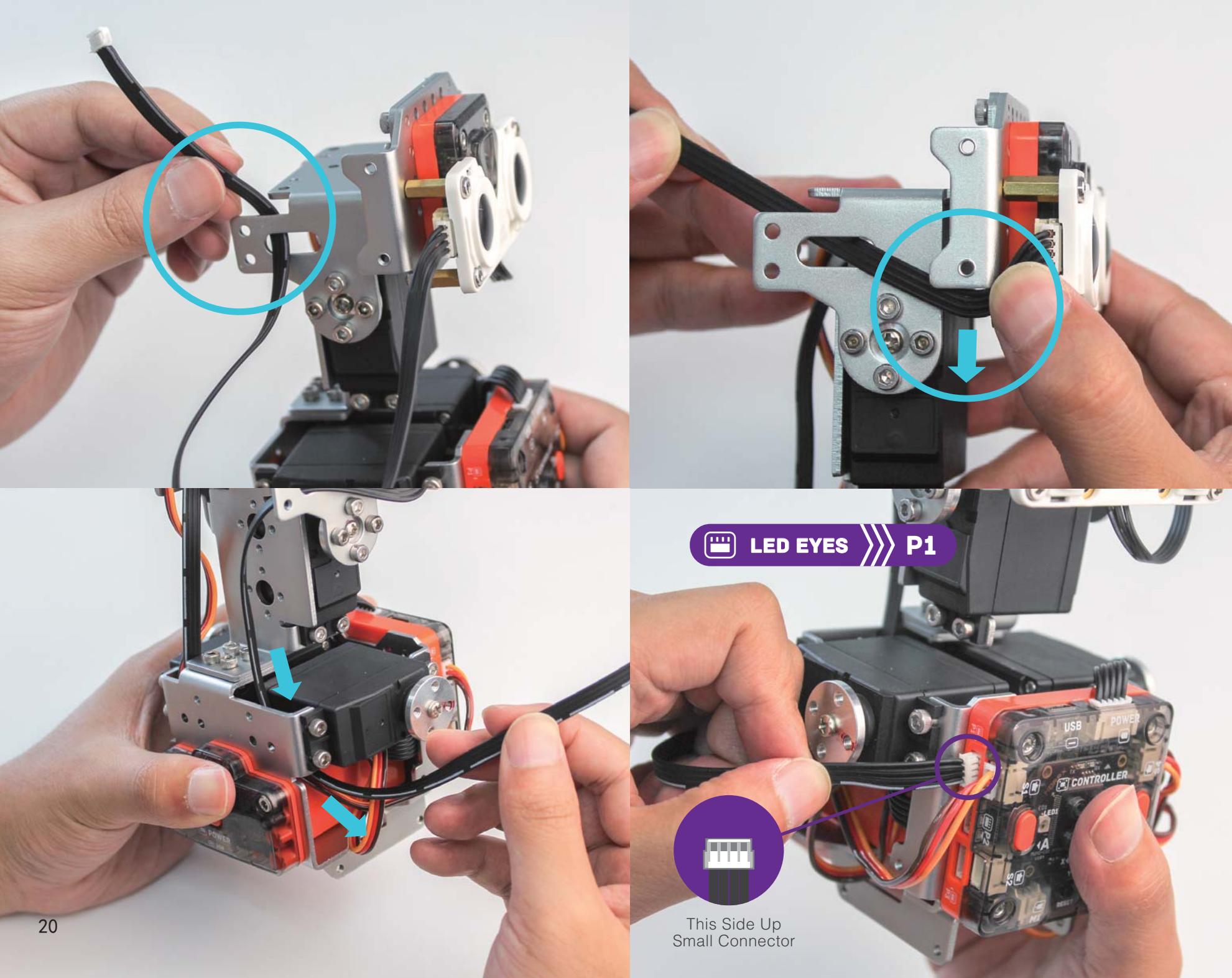
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X4



This Side Up  
Large Connector

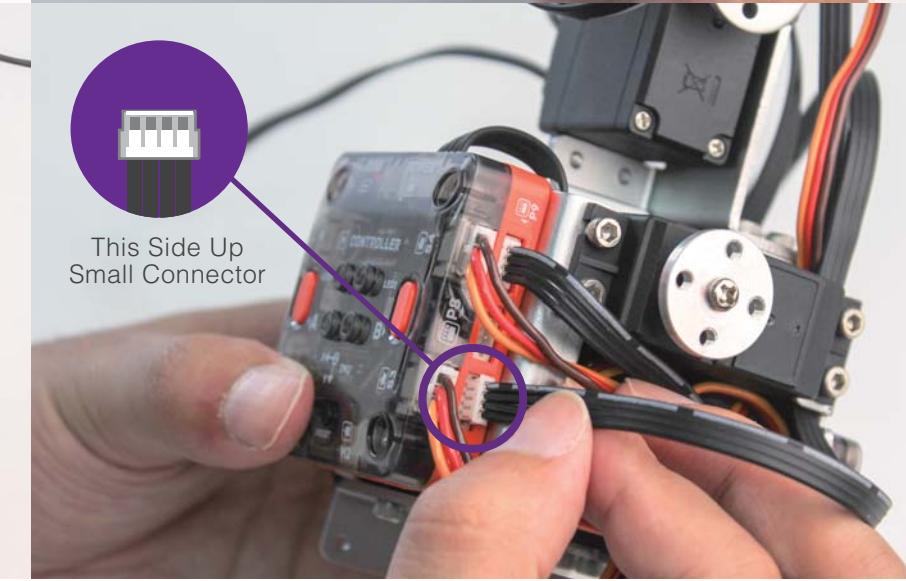
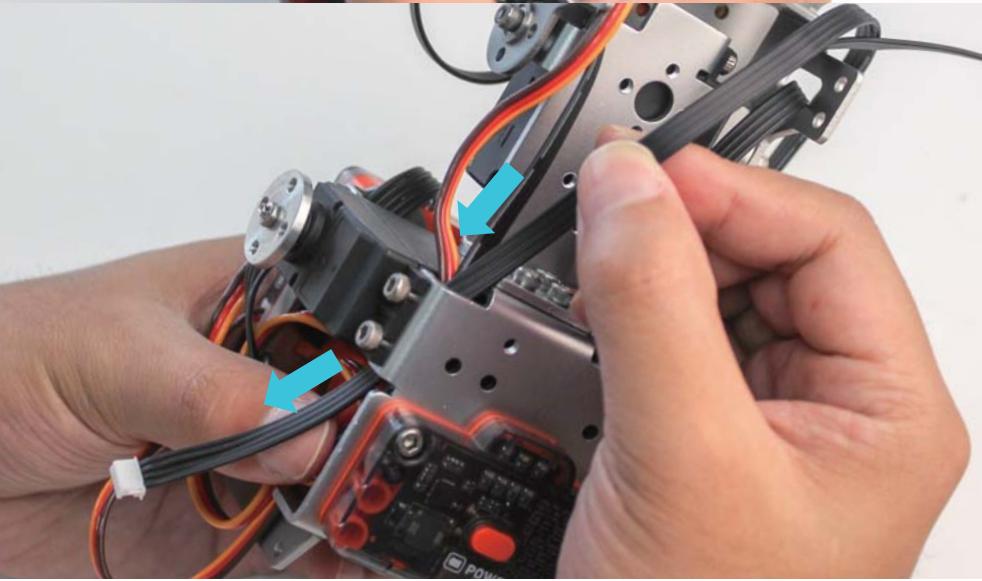
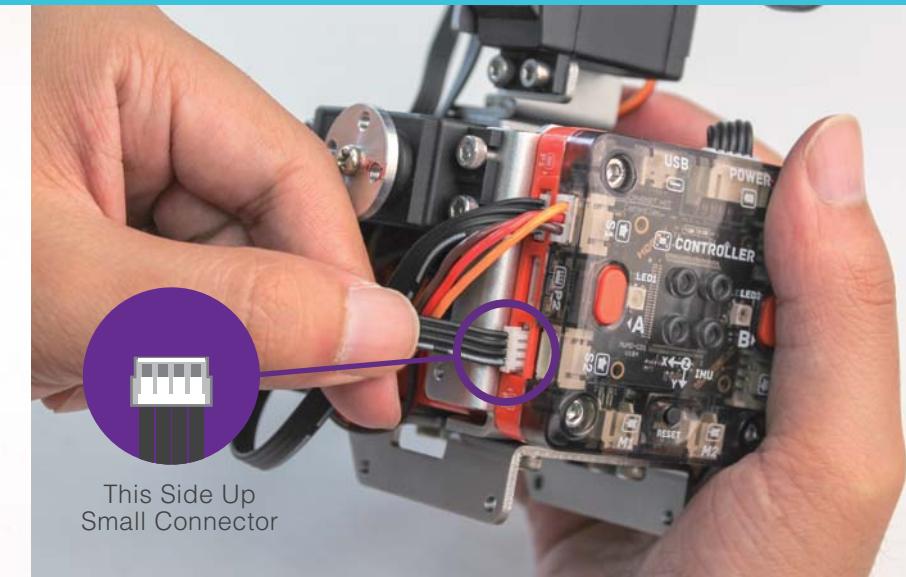
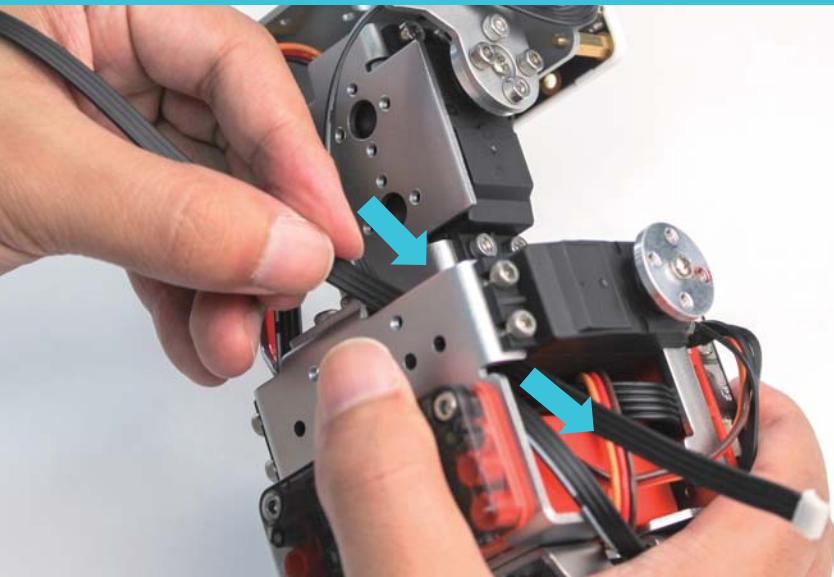


LED EYES >>> P1



This Side Up  
Small Connector

# 15



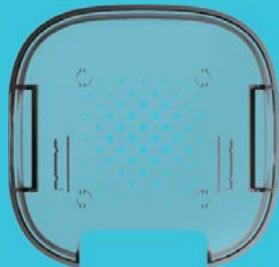


**RIGHT TOUCH SENSOR** »» P3

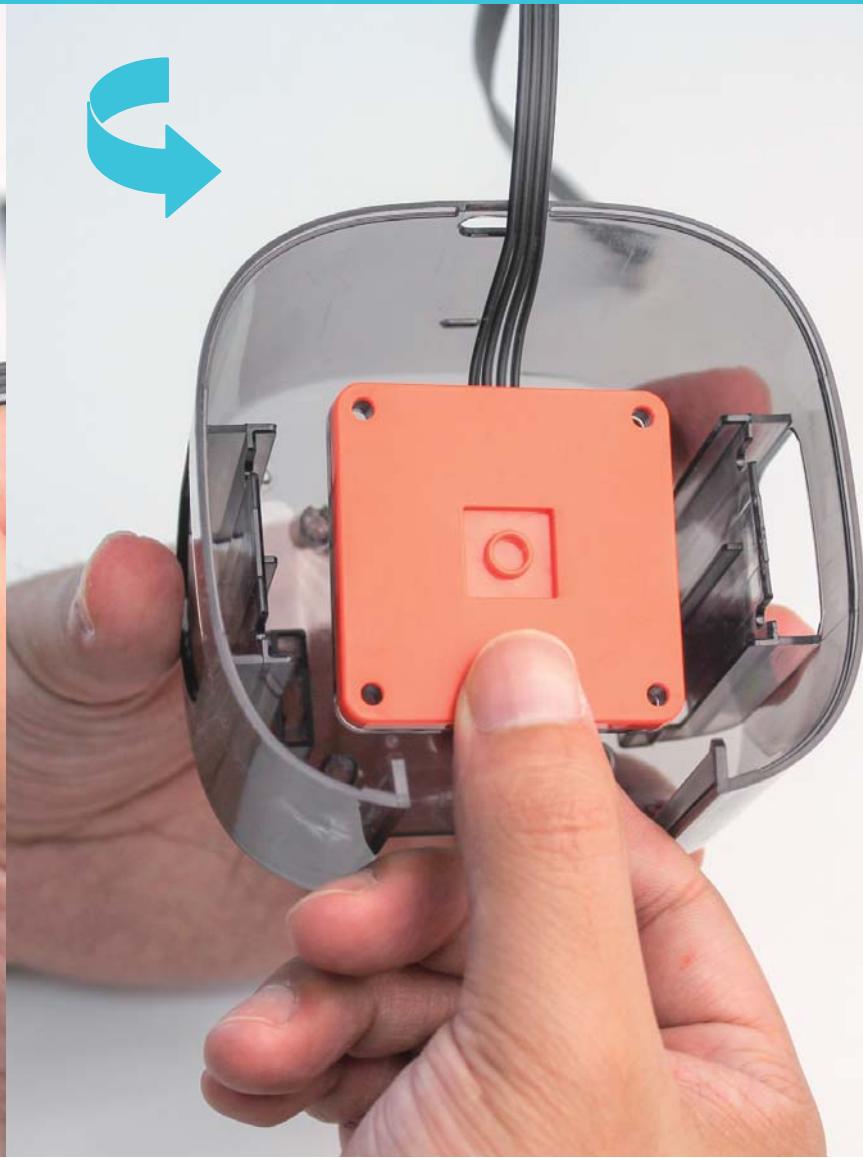
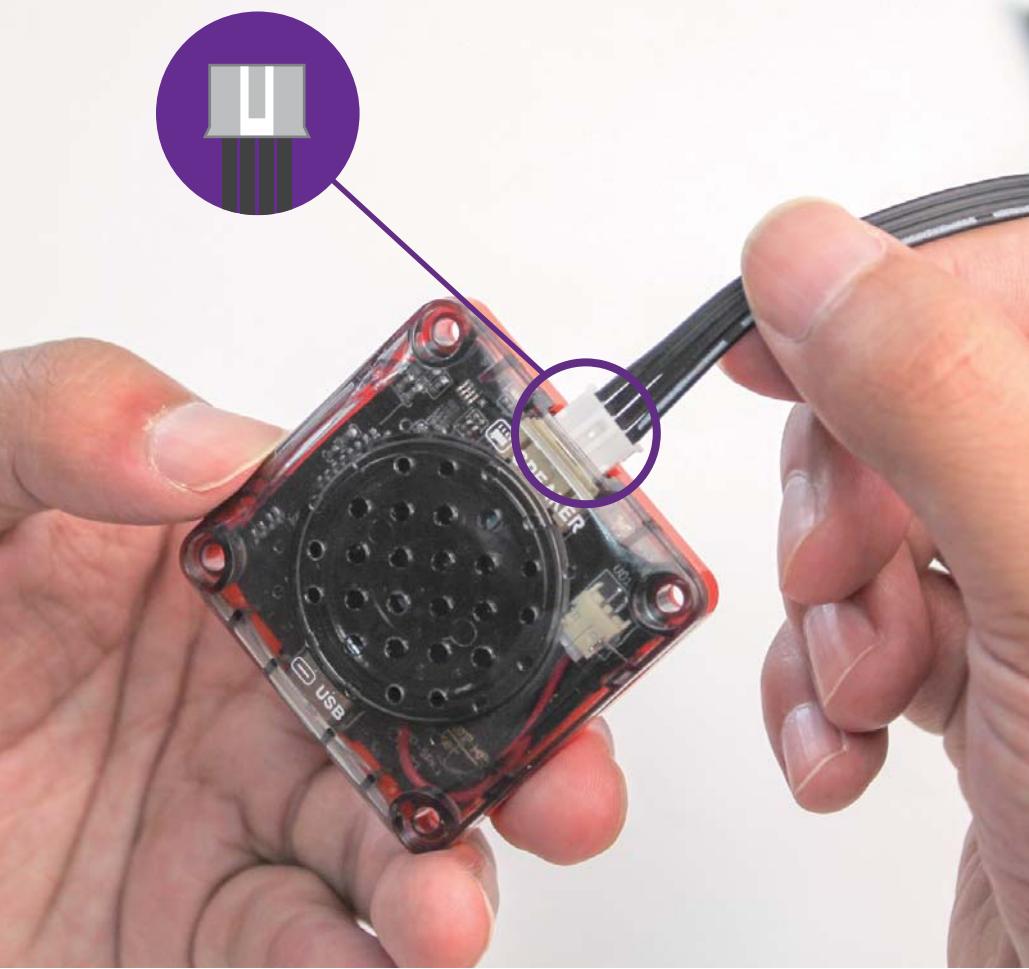


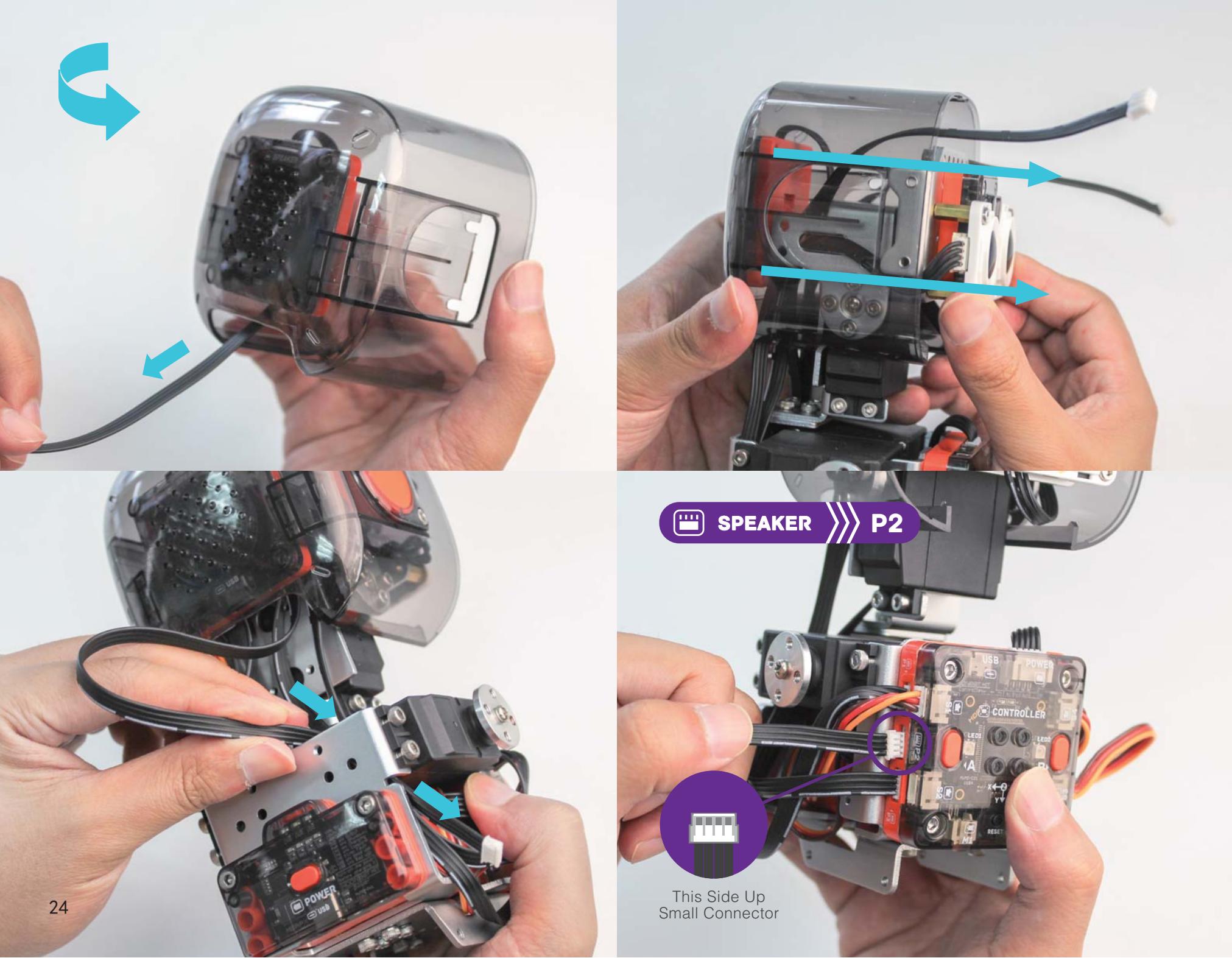
**LEFT TOUCH SENSOR** »» P7

# 16



Large Connector  
This Side Up



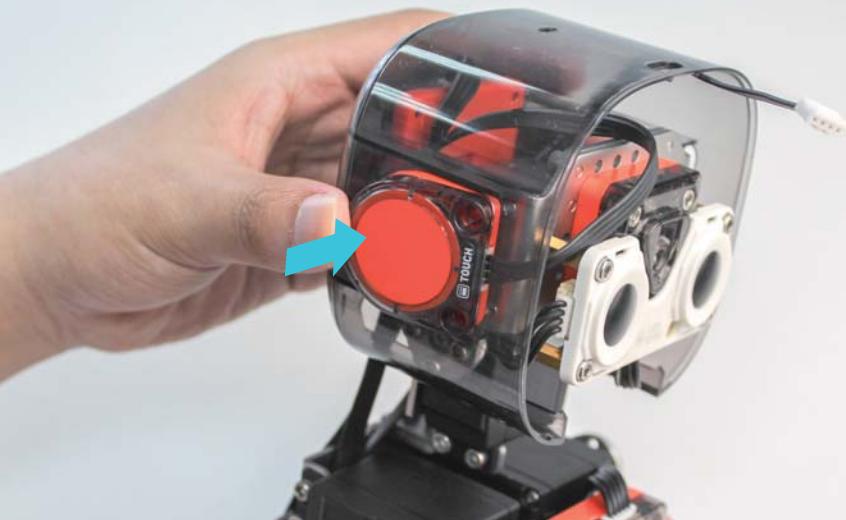
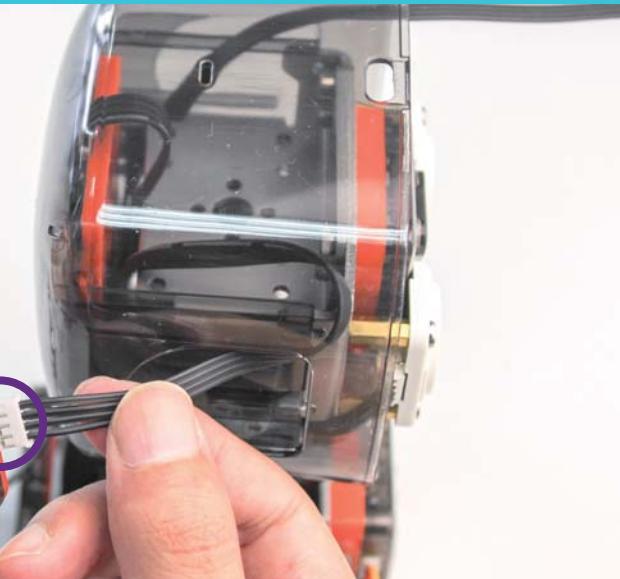


17



X2

This Side Up  
Large Connector



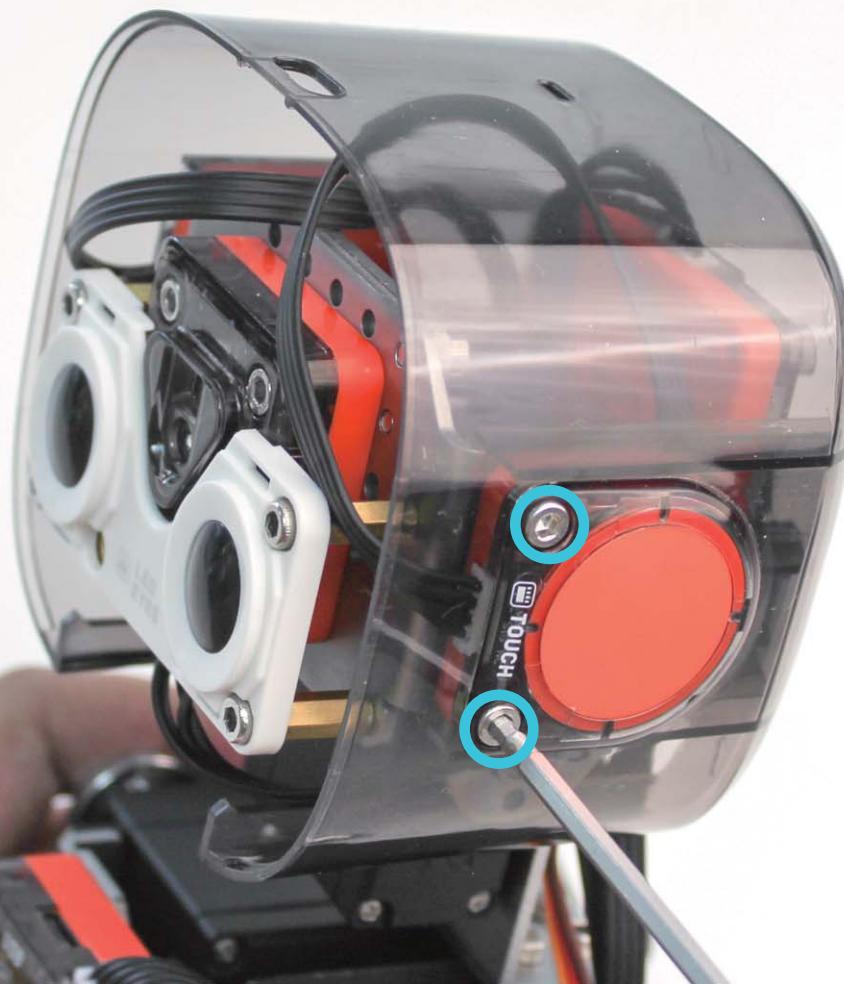
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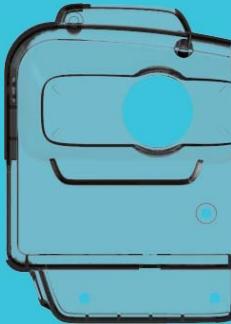
X2



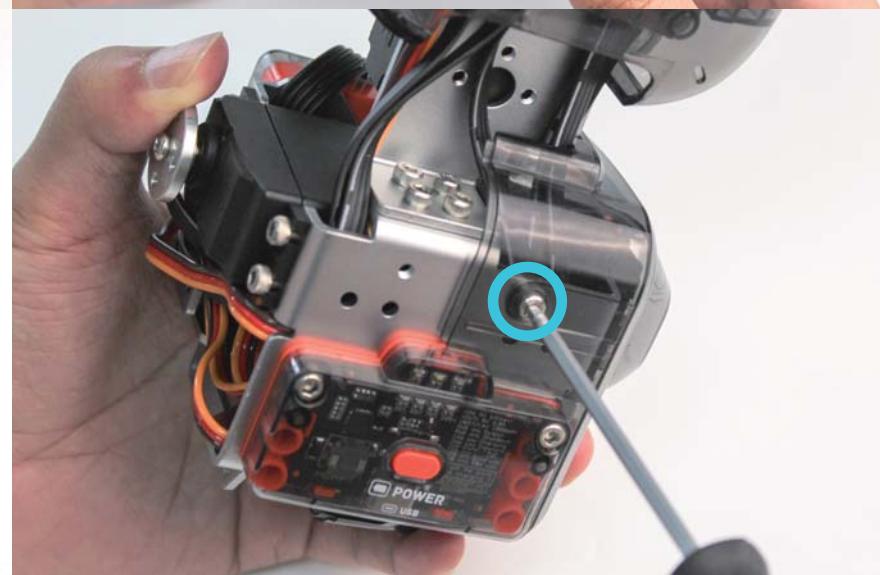
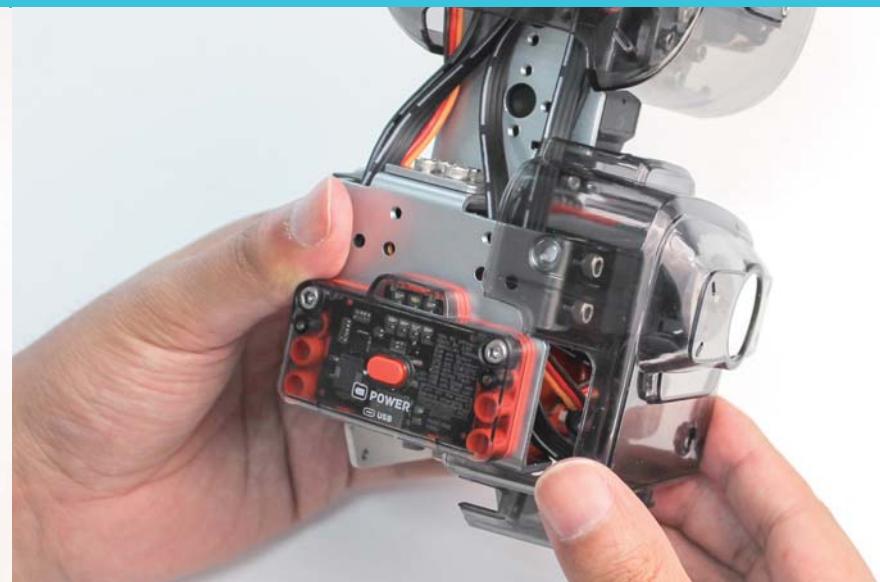
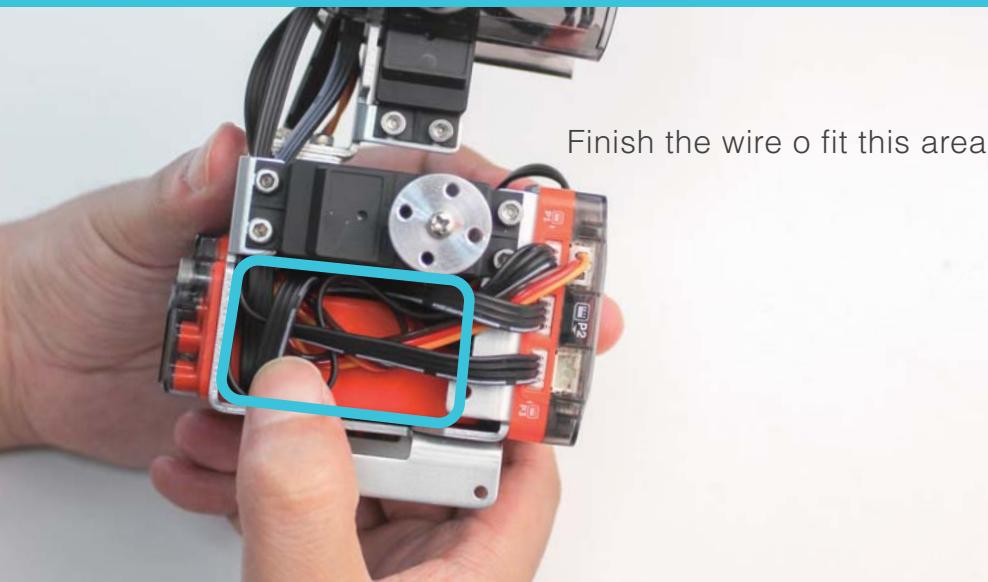
Use the same method to install the left touch module



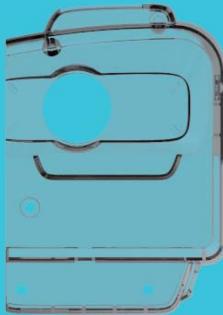
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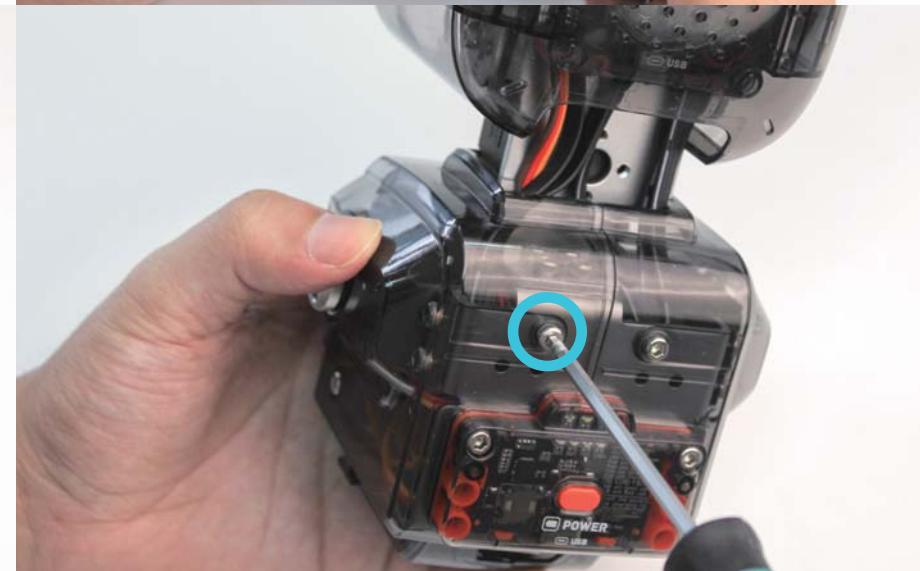
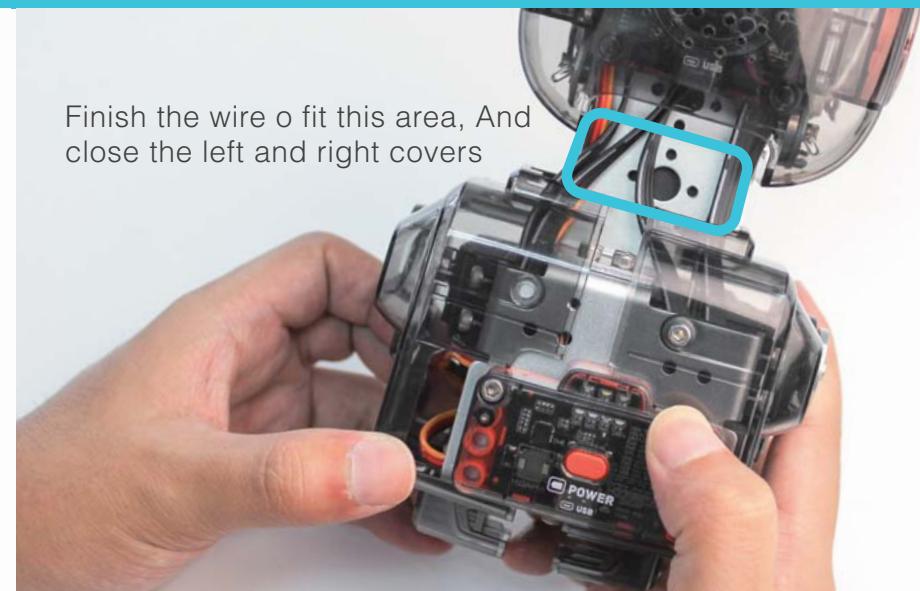
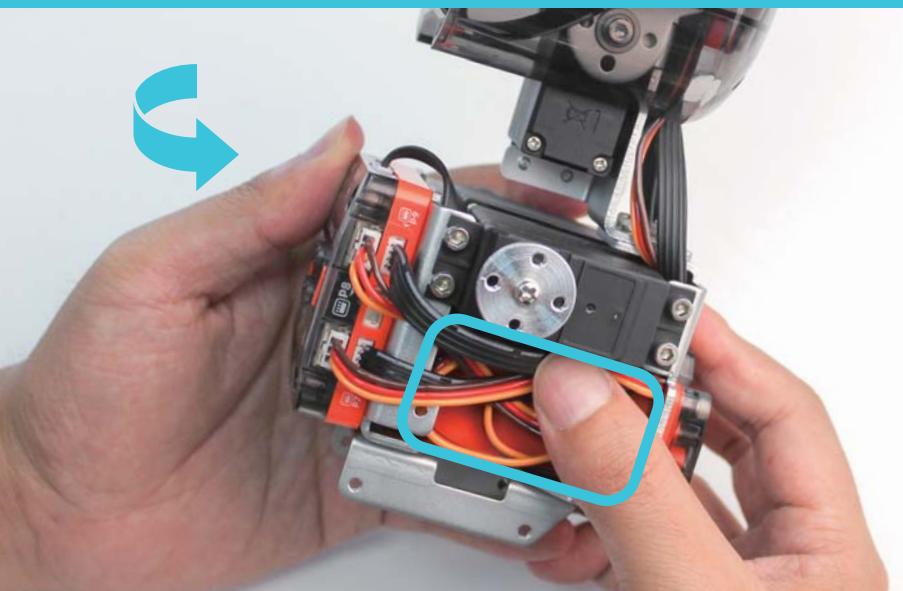
X2



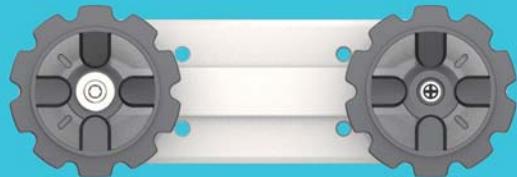
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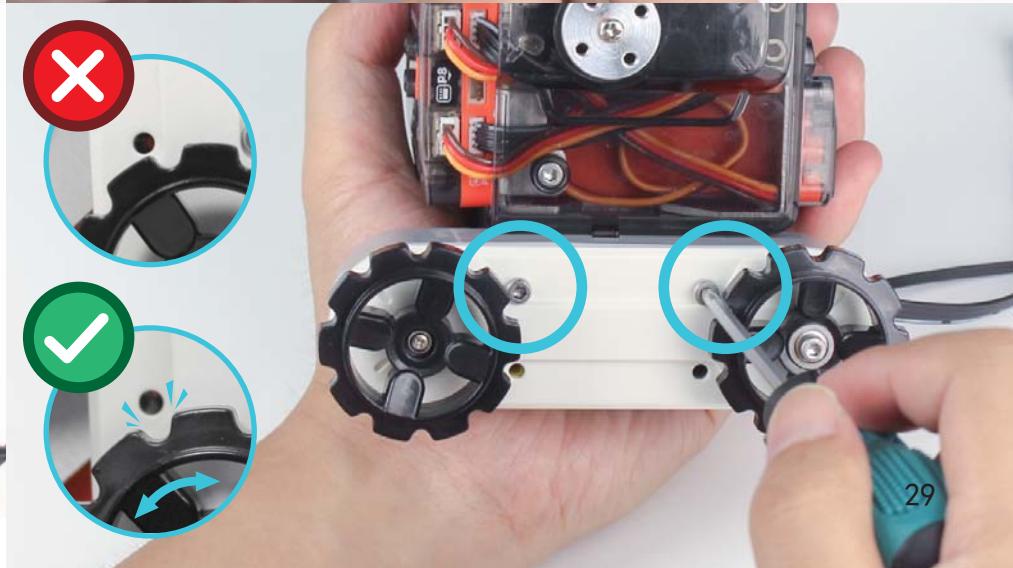
M3X4  
X2

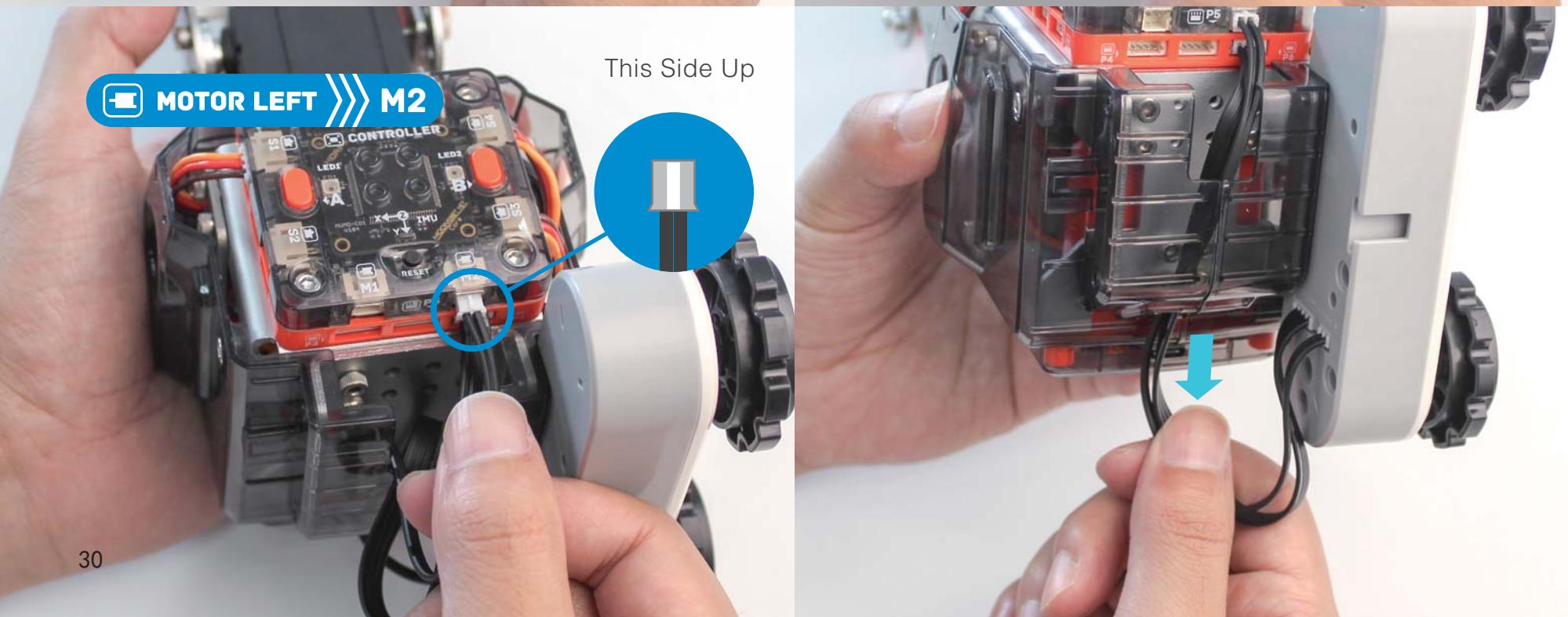


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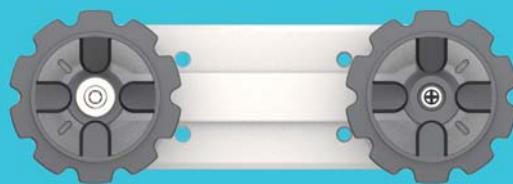


X4

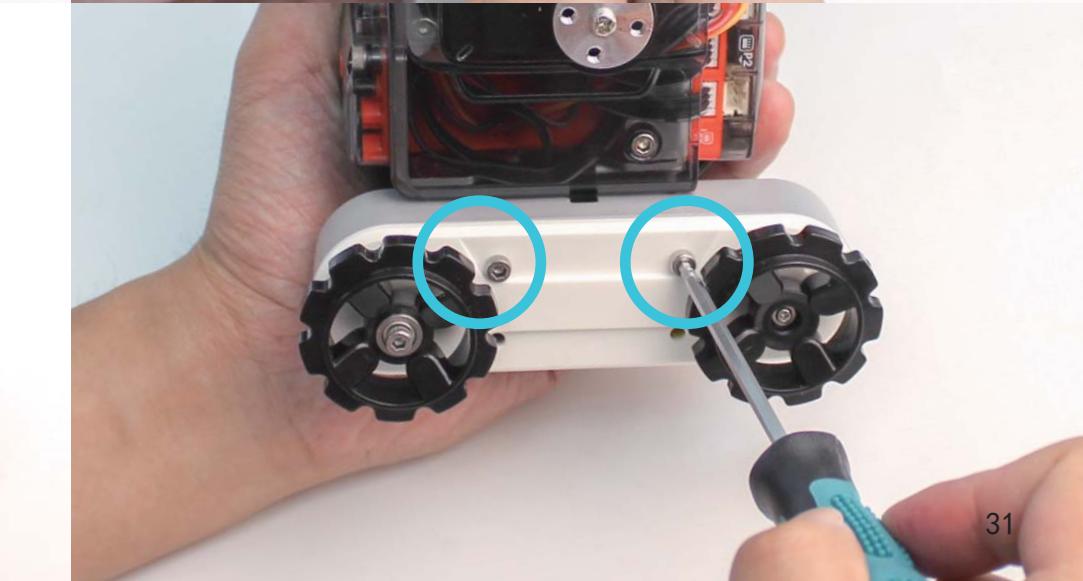
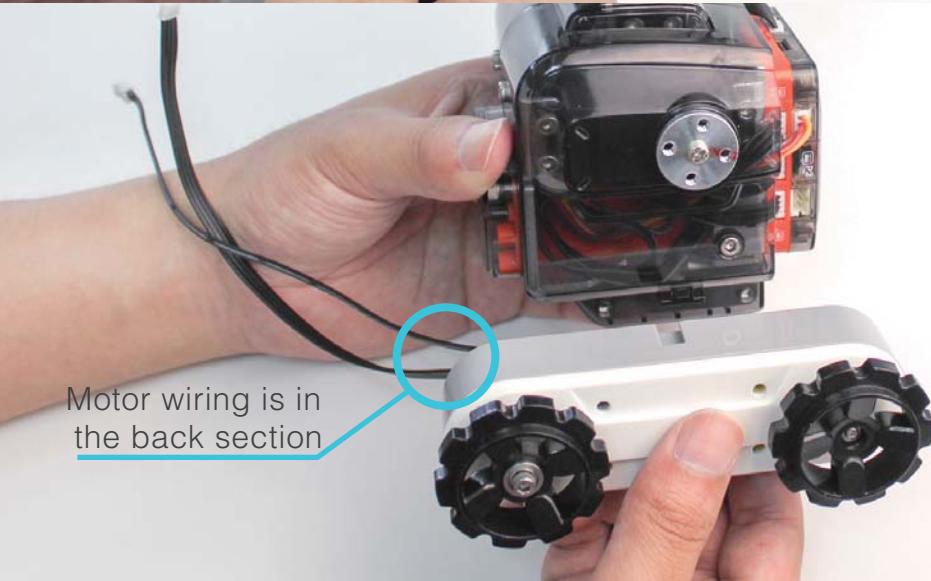
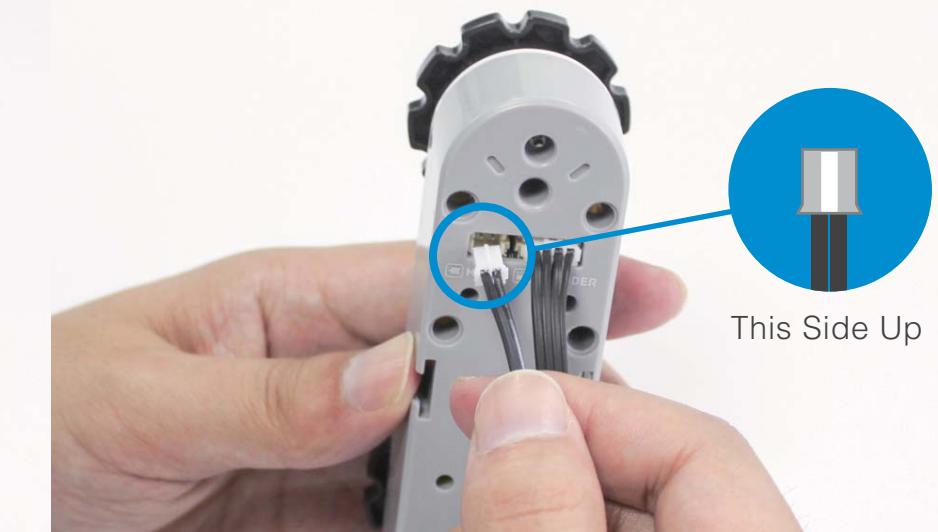


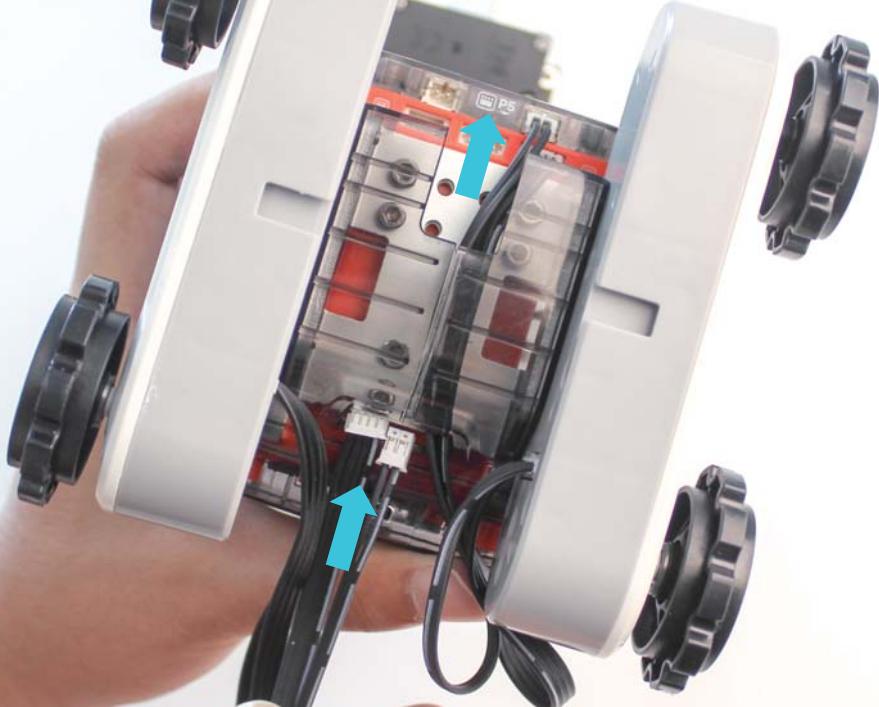


# 22

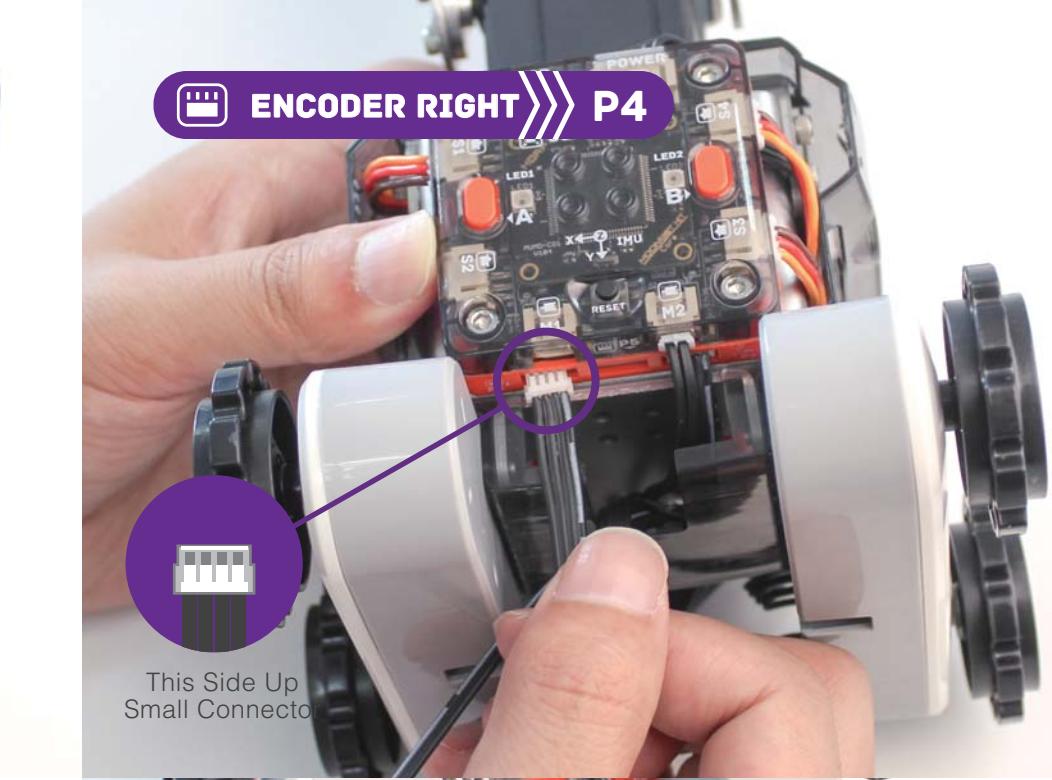


X4

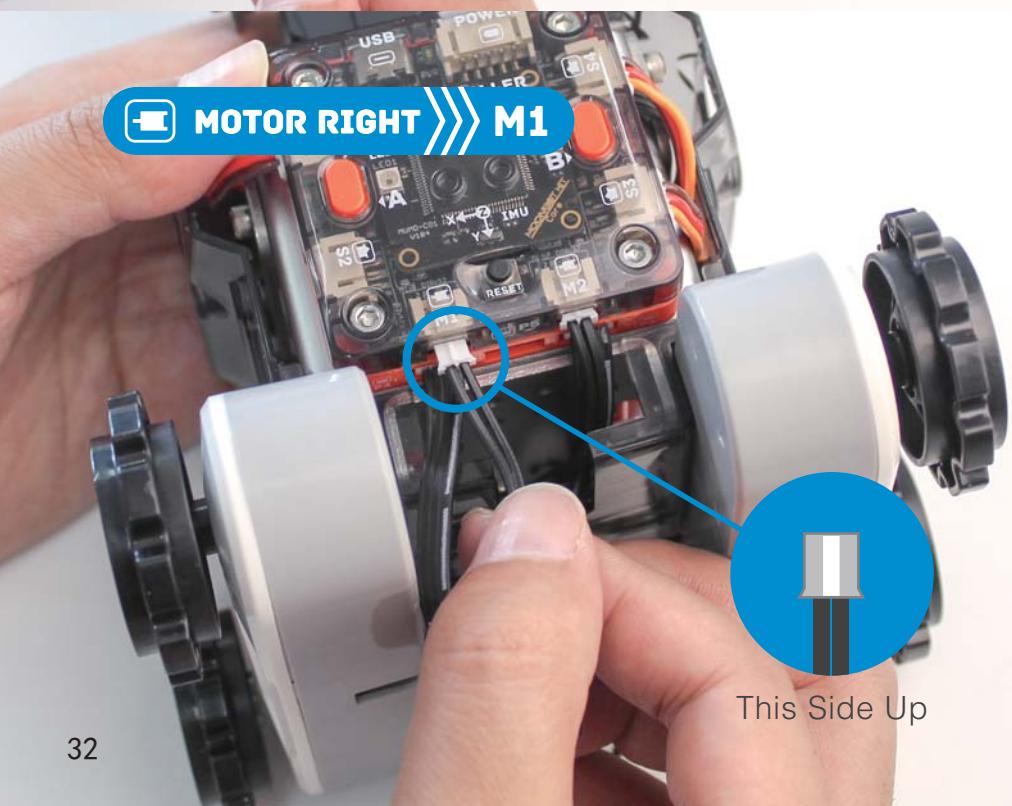




➡ ENCODER RIGHT ➞ P4

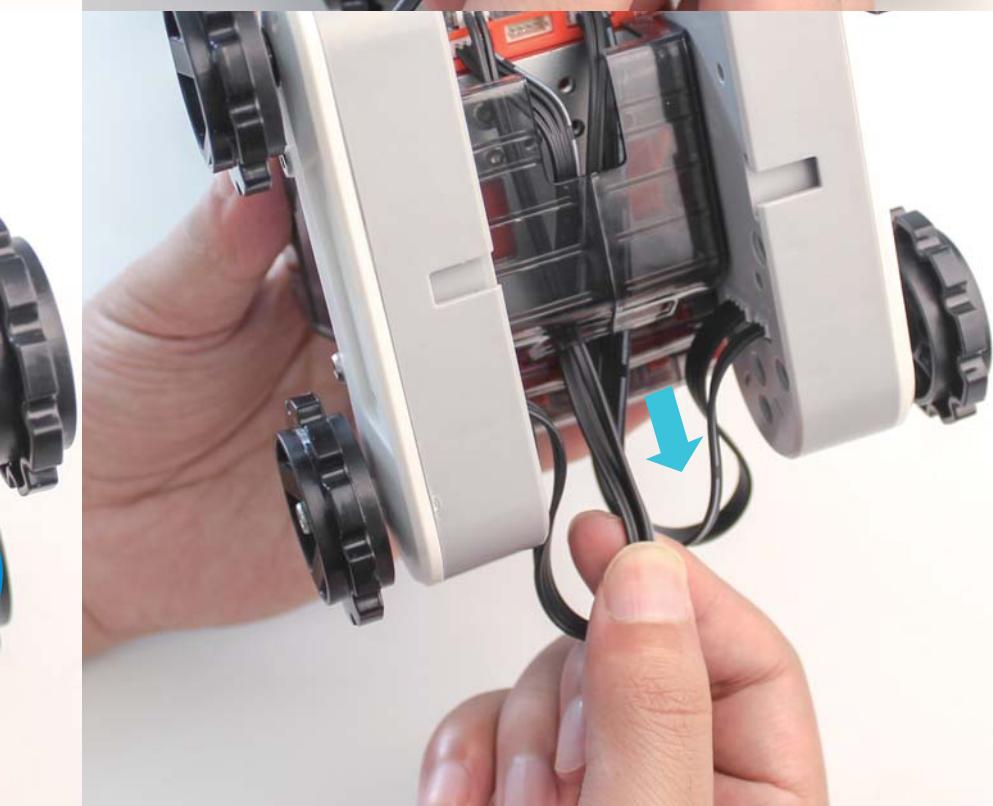


This Side Up  
Small Connector



➡ MOTOR RIGHT ➞ M1

This Side Up



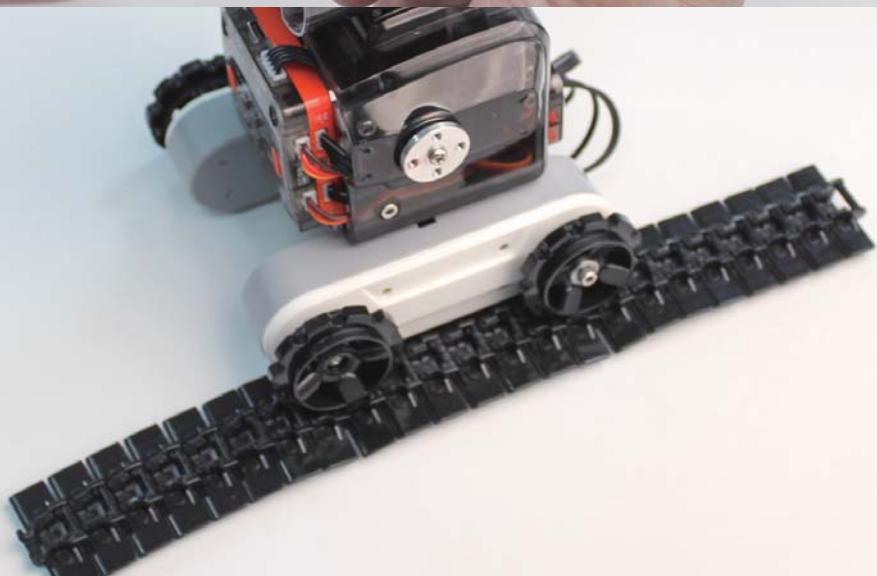
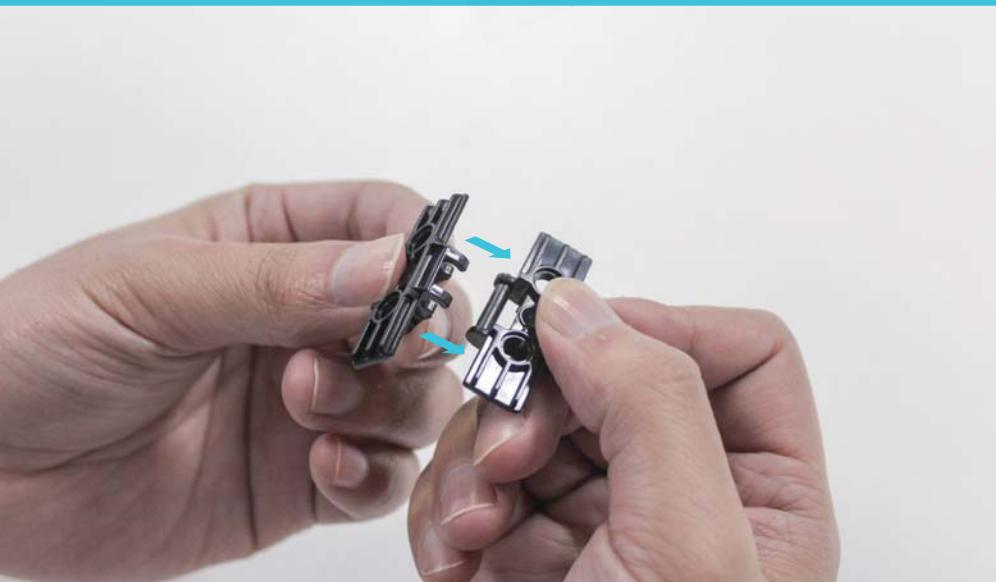
23



X23



X46



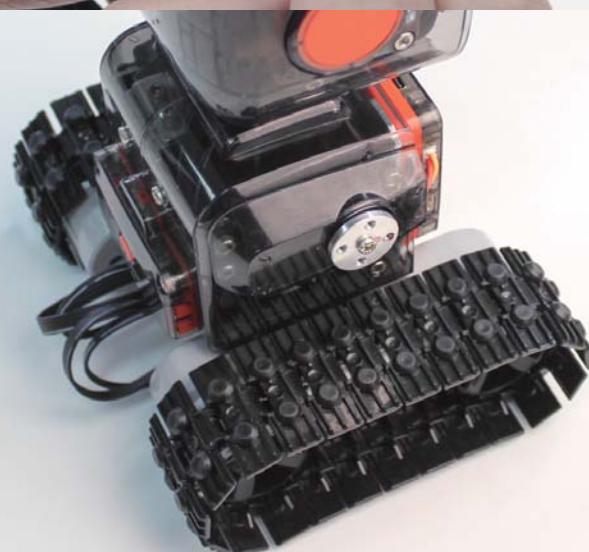
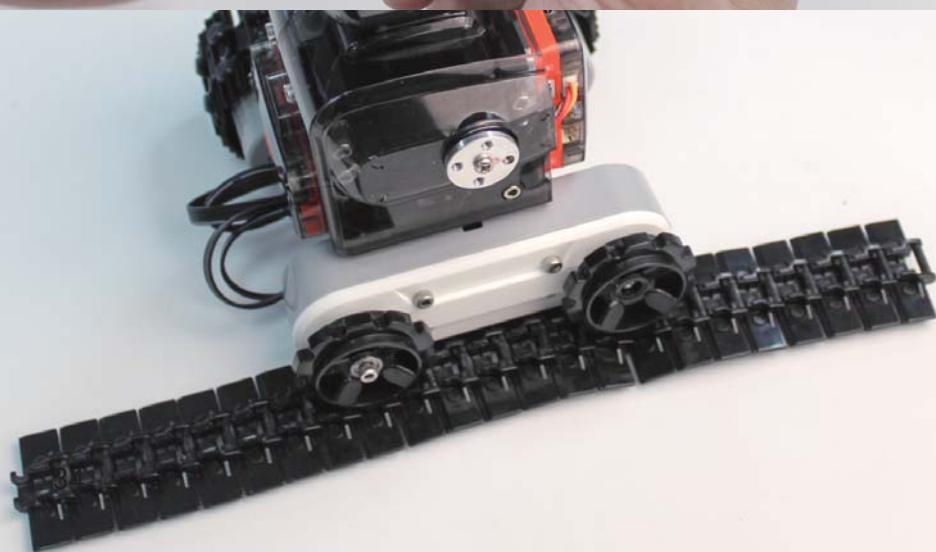
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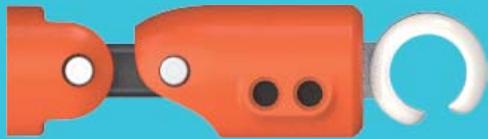
X23



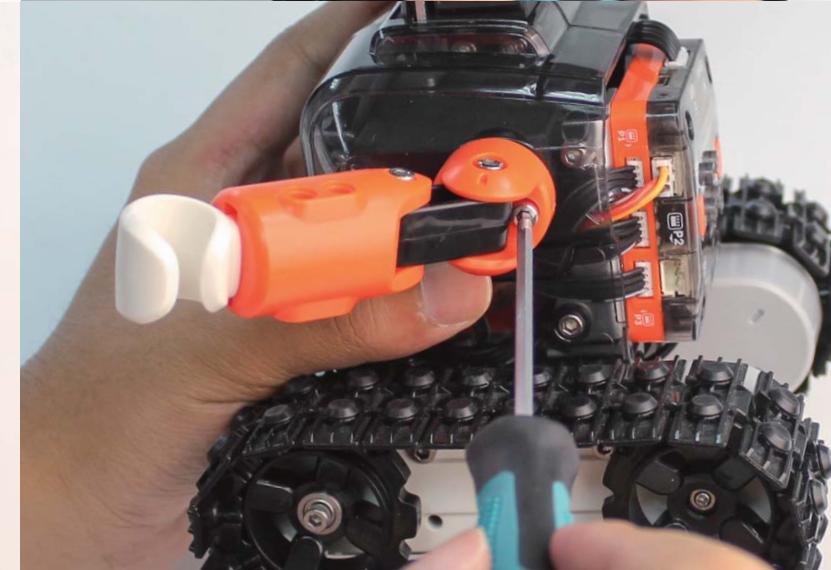
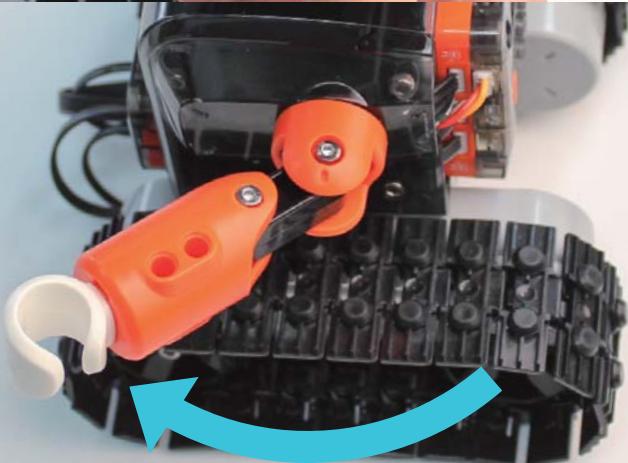
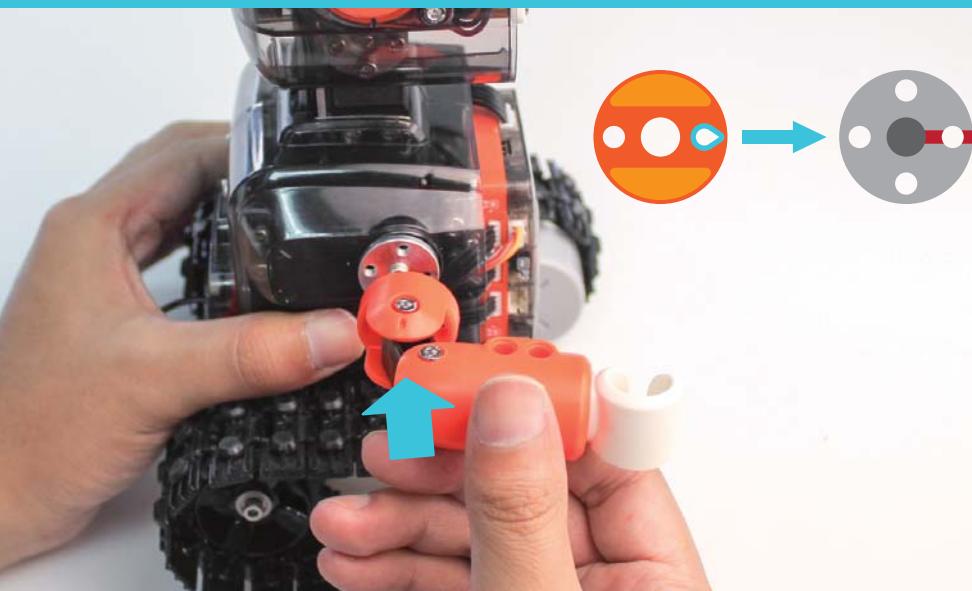
X46



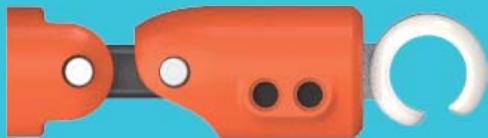
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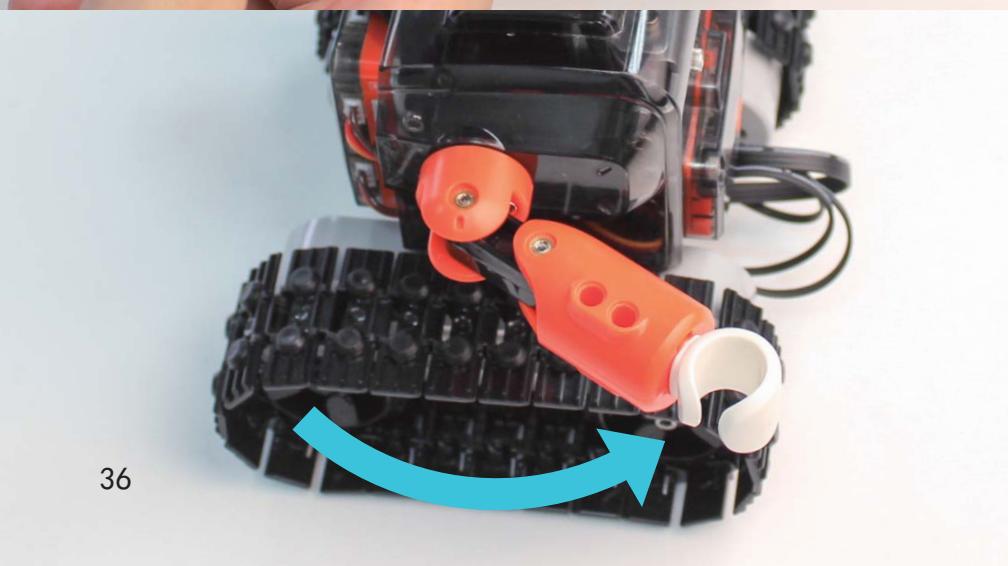
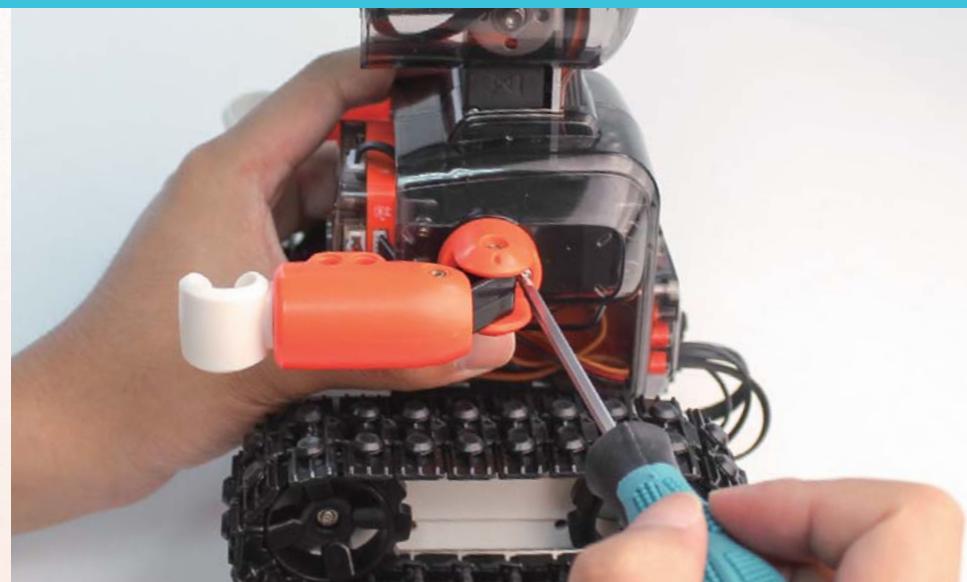
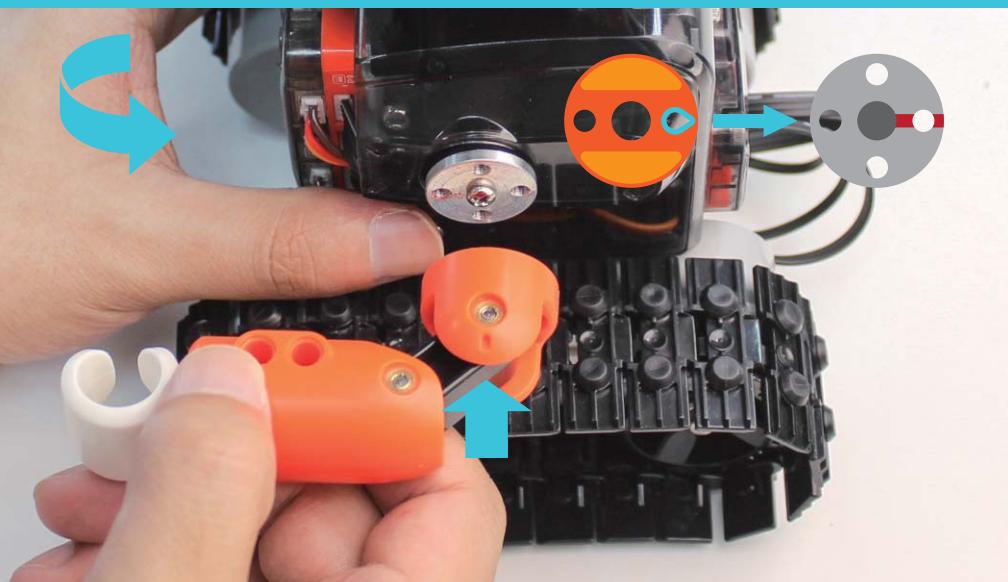
X2



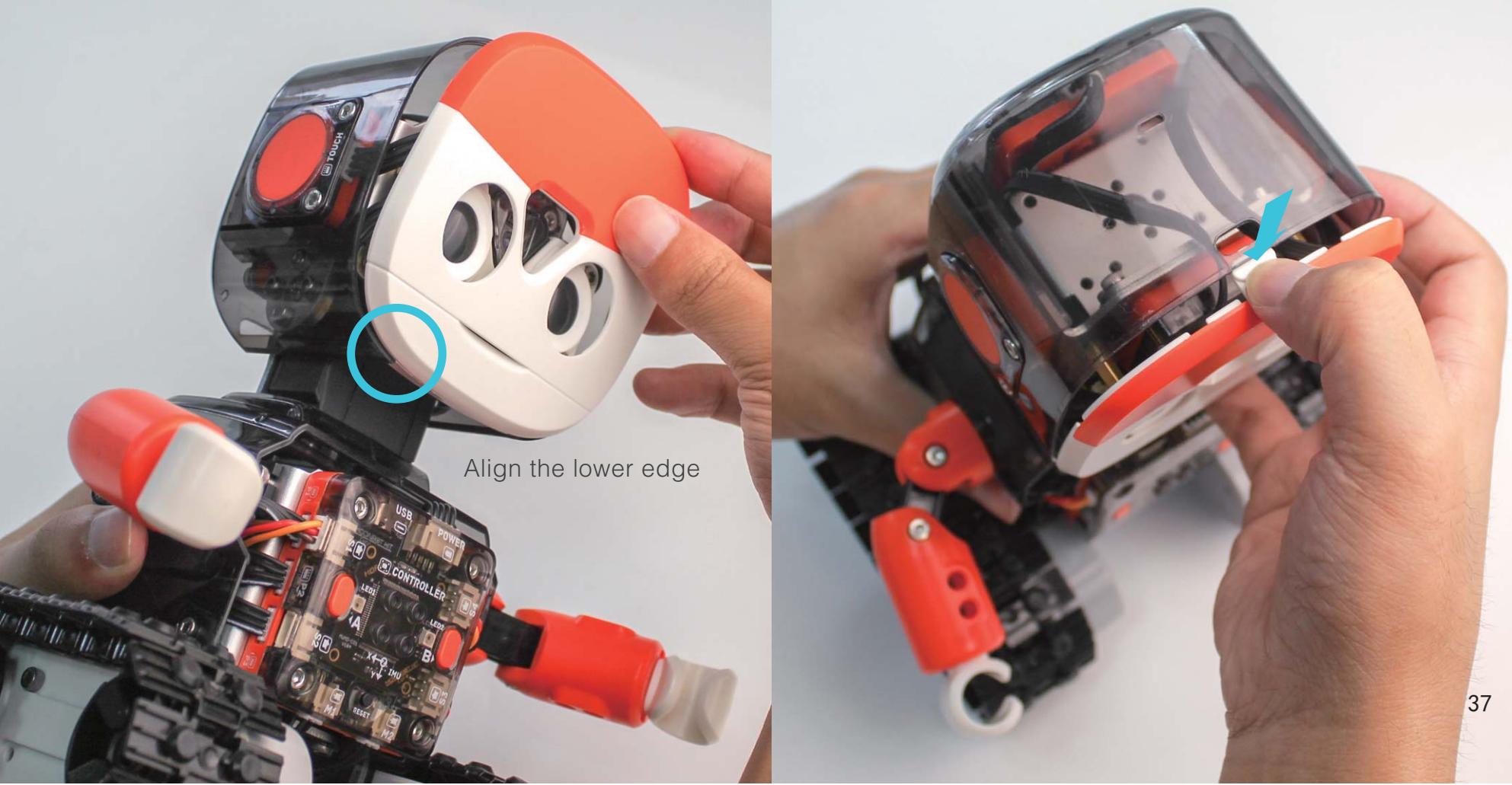
26



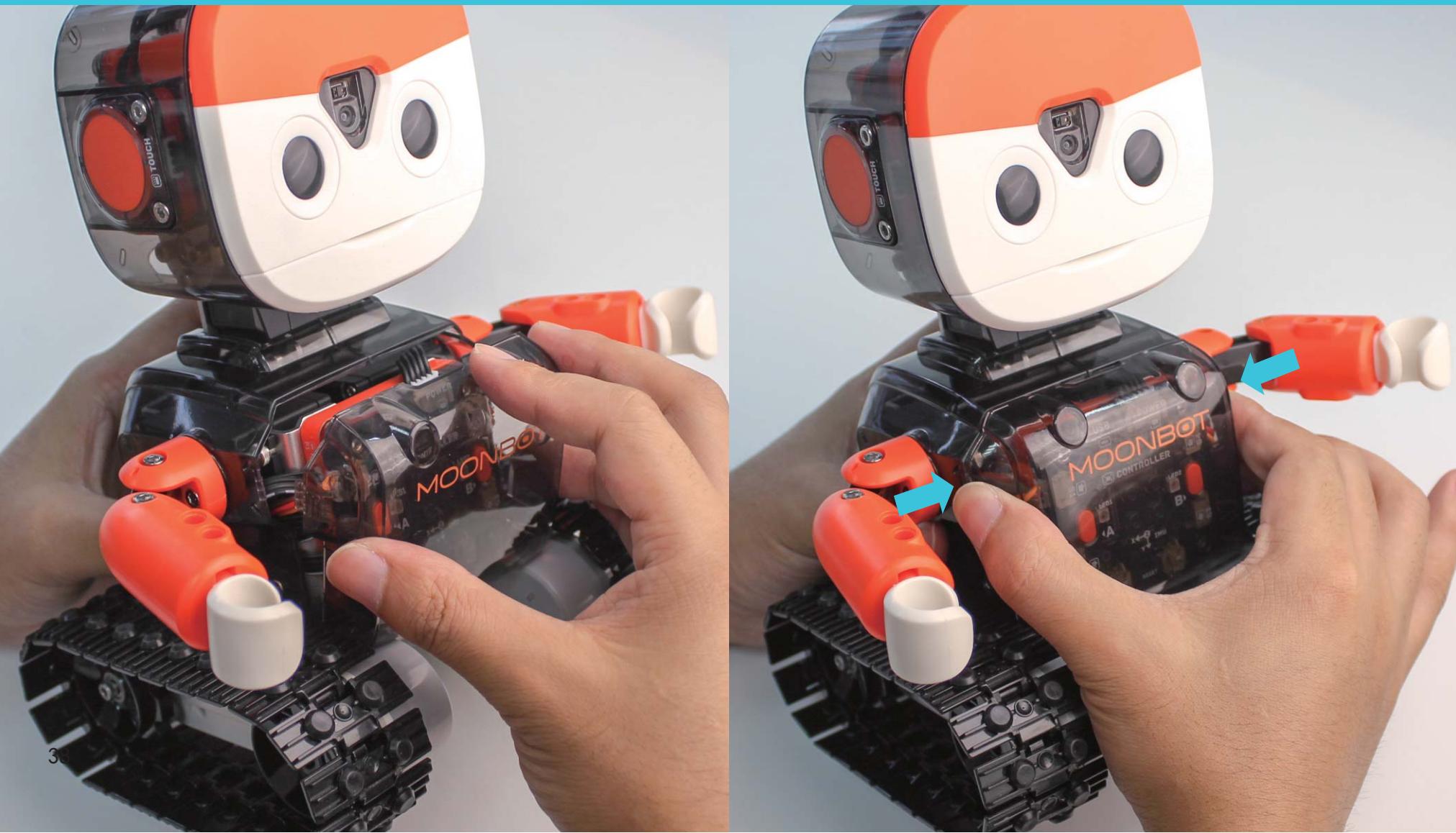
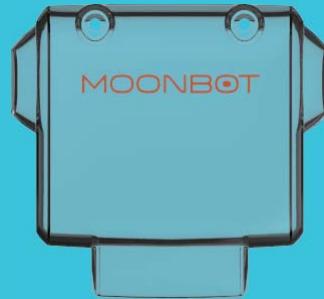
M3X4  
X2



# 27

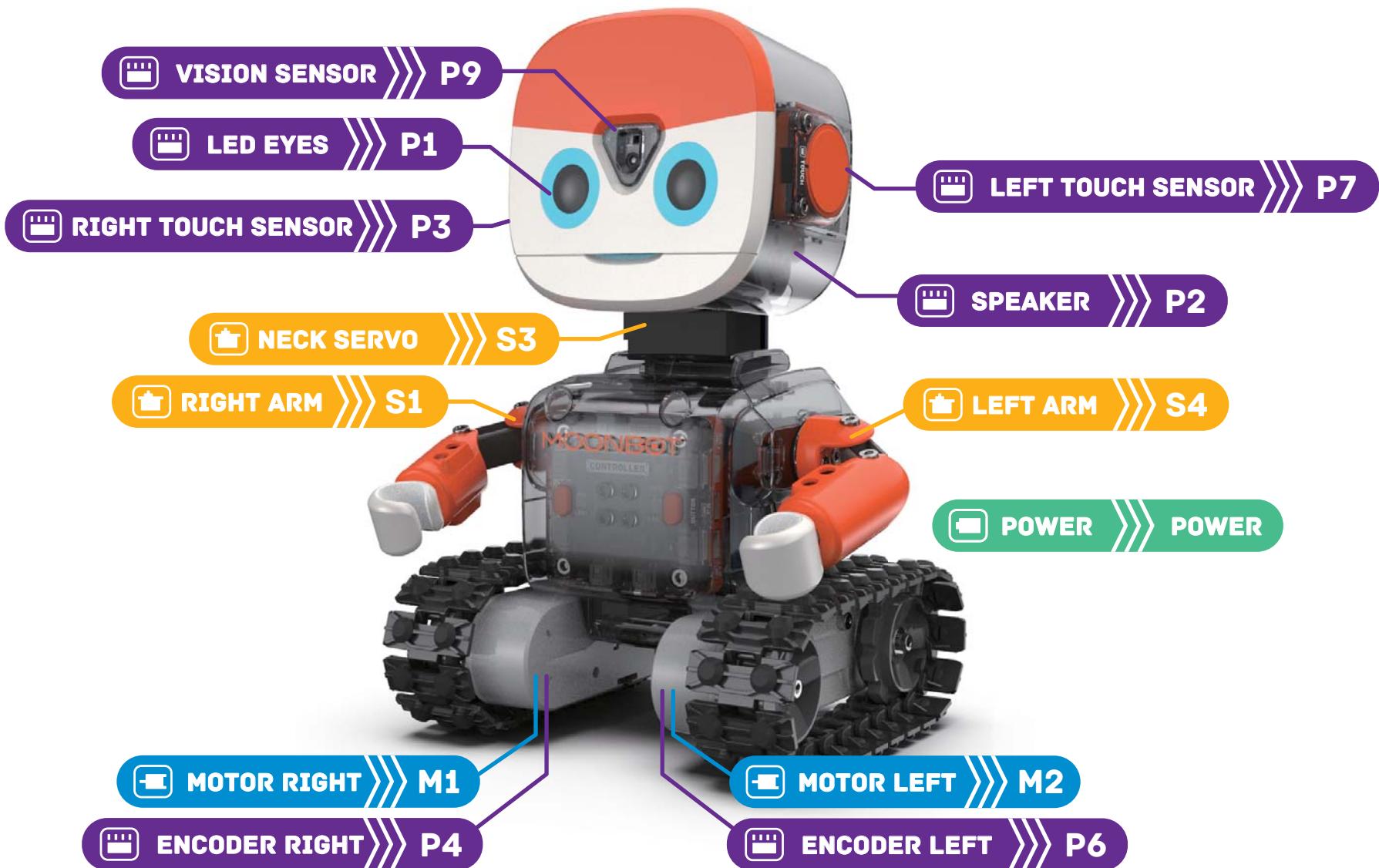


# 28



# CHECK CONNECTIONS

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



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