

MoonMech

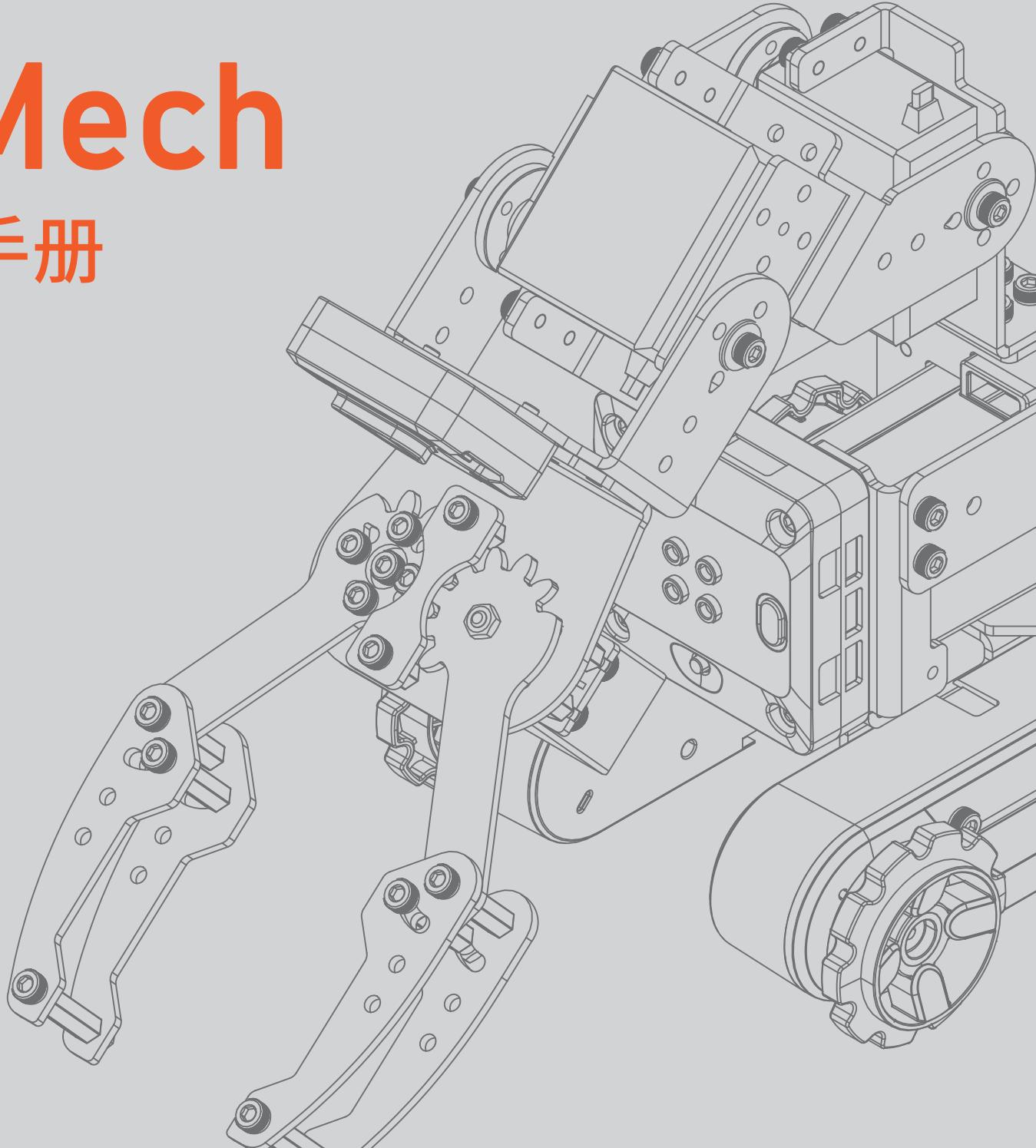
机械臂搭建手册

235

零件数

2 h

预估搭建时间



使用前必读

各位家长,为保障您的孩子在使用时的安全,请在搭建前仔细阅读说明书。

此产品适合8岁以上人群,8岁以下请在父母指导下完成。请仔细按照说明书步骤安装,安装错误可能导致机器人损坏或非正常工作。

⚠ 安全警告:

1. 注意金属部件尖锐处,防止割伤,通电运行中不要把手靠近活动部件或接缝处。
2. 内含细小部件请勿吞食,可能造成窒息风险,本品不适合3岁以下儿童。
3. 请将此产品远离火源热源,请勿将产品浸入水中。

注意事项:

1. 组装前和通电状态请不要扭动舵机的输出轴,扭动可能会导致舵机齿轮损伤。
2. 投掷或者不小心摔落本产品可能会造成损坏,请勿跌落或外力撞击机器人或任何部件。
3. 请不要遮挡摄像头,因为会影响机器人的识别效果。

电池注意事项:

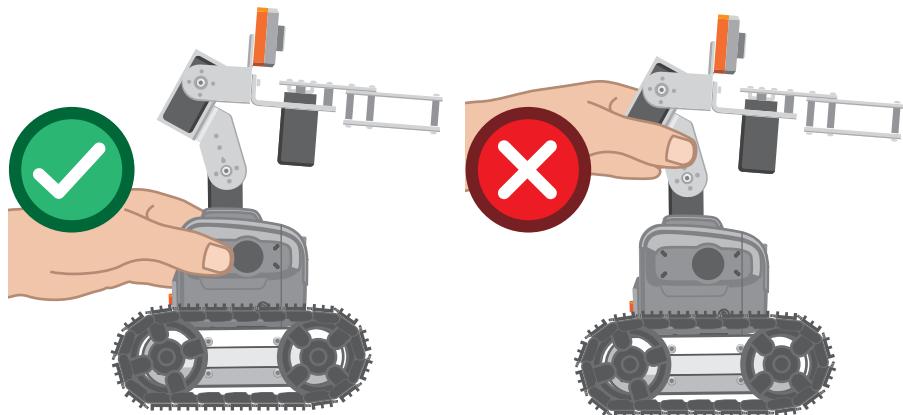
1. 请勿拆卸锂电池模组,避免跌落、撞击、挤压锂电池,避免在潮湿、低温(低于0度),高温(高于50度)环境下使用,远离火源,请勿浸水;
2. 请使用安全可靠的USB电源设备进行充电,充电前,请先关闭锂电池模组的电源输出,充电时,请勿频繁拔插USB;
3. 充电过程是非线性过程,前95%之间的电量会充的比较快速,而最后5%的电量会用时比较长,属于正常现象;
4. 请在电量处于较低水平时再进行充电,如果在电量在LED4(100%)时进行充电,LED4(100%)可能一直处于闪烁状态,

此时无须继续充电,直接使用即可;

5. 虽然锂电池内部具备完善的保护电路,但在使用过程中还是要避免出现以下情况,过度充电,过度放电,电极短路,电流倒灌,大电流输出;
6. 当锂电池模组长时间不使用时,请将锂电池维持在75%的电量进行存储;
7. 锂电池具有一定的使用寿命,其电池容量会随使用时间而有所衰减,当电池使用时间无法满足日常使用需求时,建议更换新的锂电池模组;
8. 废弃锂电池模组应妥善处置,不可随意丢弃;

⚠ 注意

当机械臂上方部件运动时,如有需要,请拿下方来进行调整。



*因版本更新产品和说明书可能会略有不同,不会影响安装和使用,一切请以实物为准。

图标说明



翻转视角



注意

零件盒参照图

| | | | | |
|------|------------|-------|-------|-------|
| M3X4 | M3X8 | M3X12 | 六角铜柱 | M3X28 |
| 轴承 | 垫片 M3螺母 | R3035 | R3075 | R3045 |

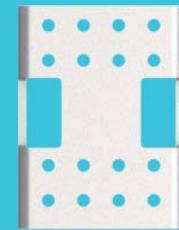
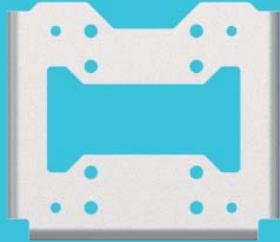


1:1

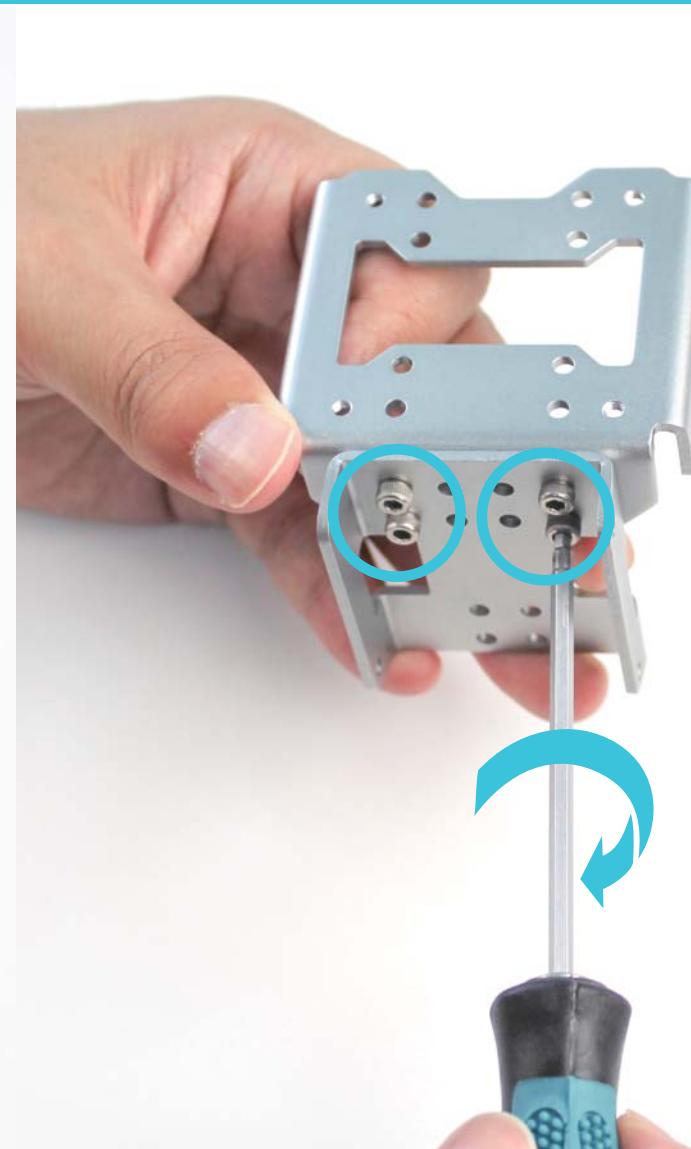
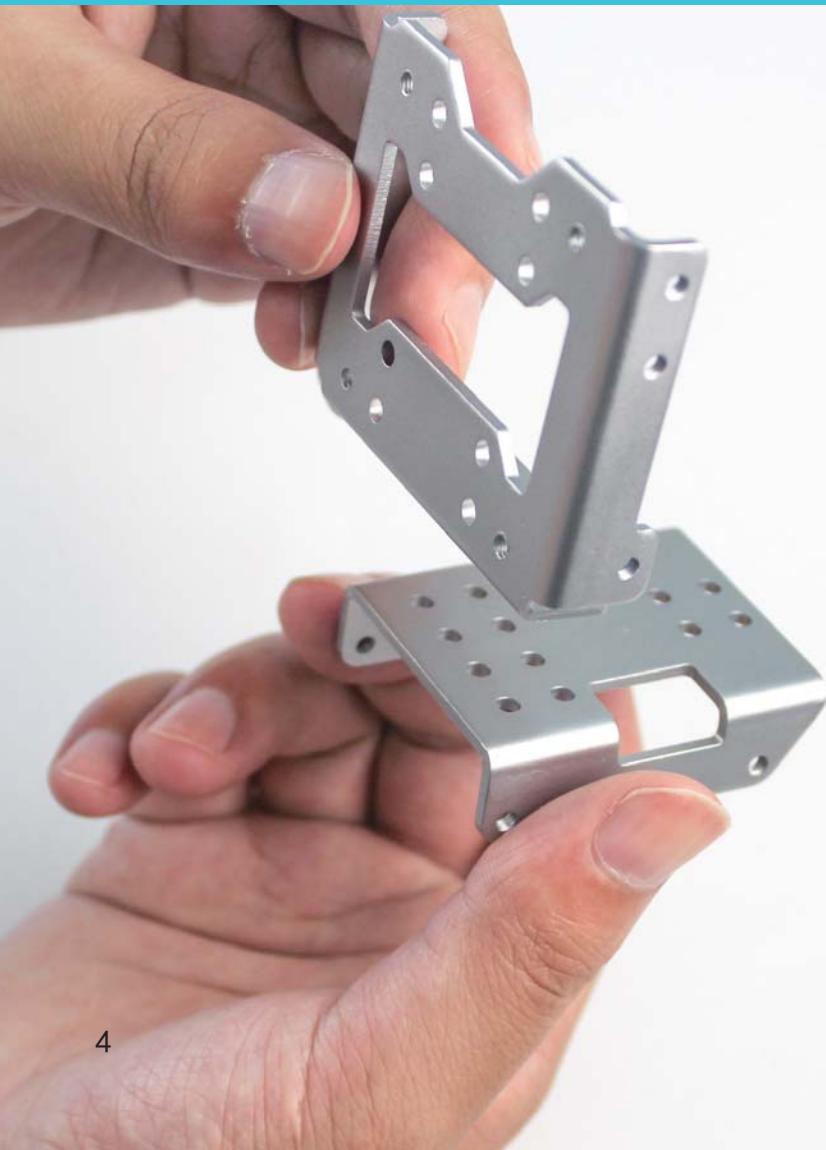


此图标和实物是1:1大小的,请对照图中的型号和长度

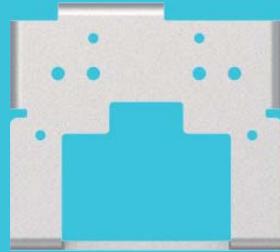
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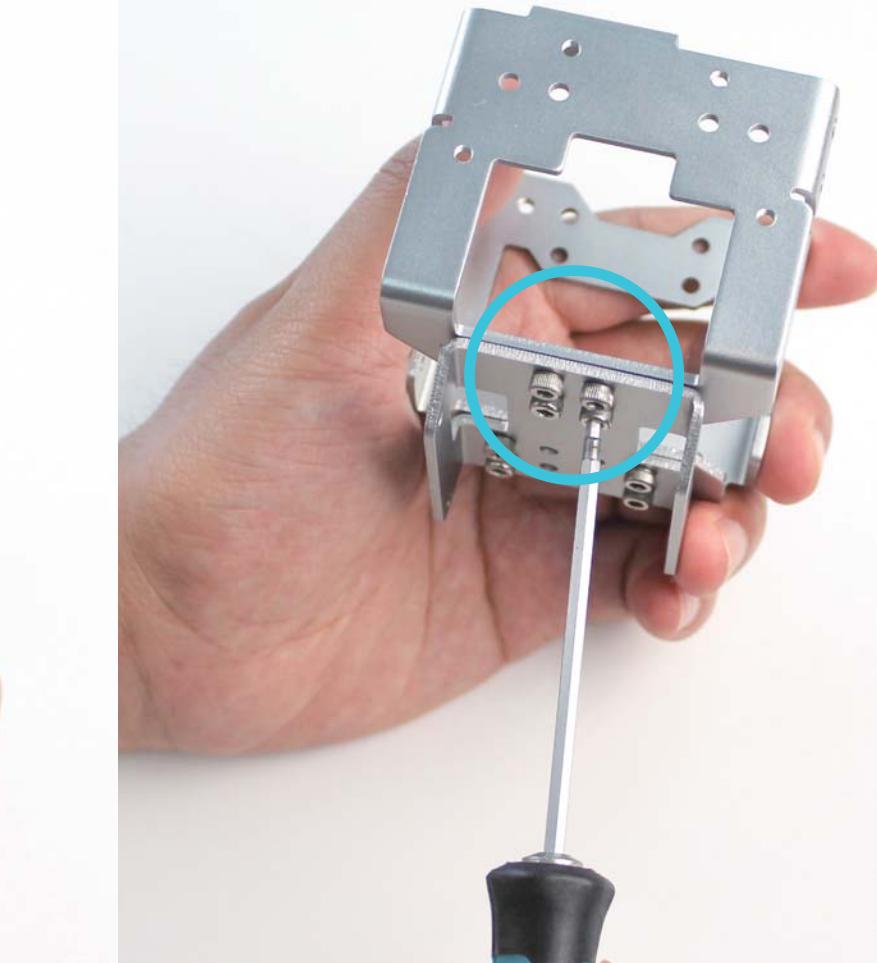
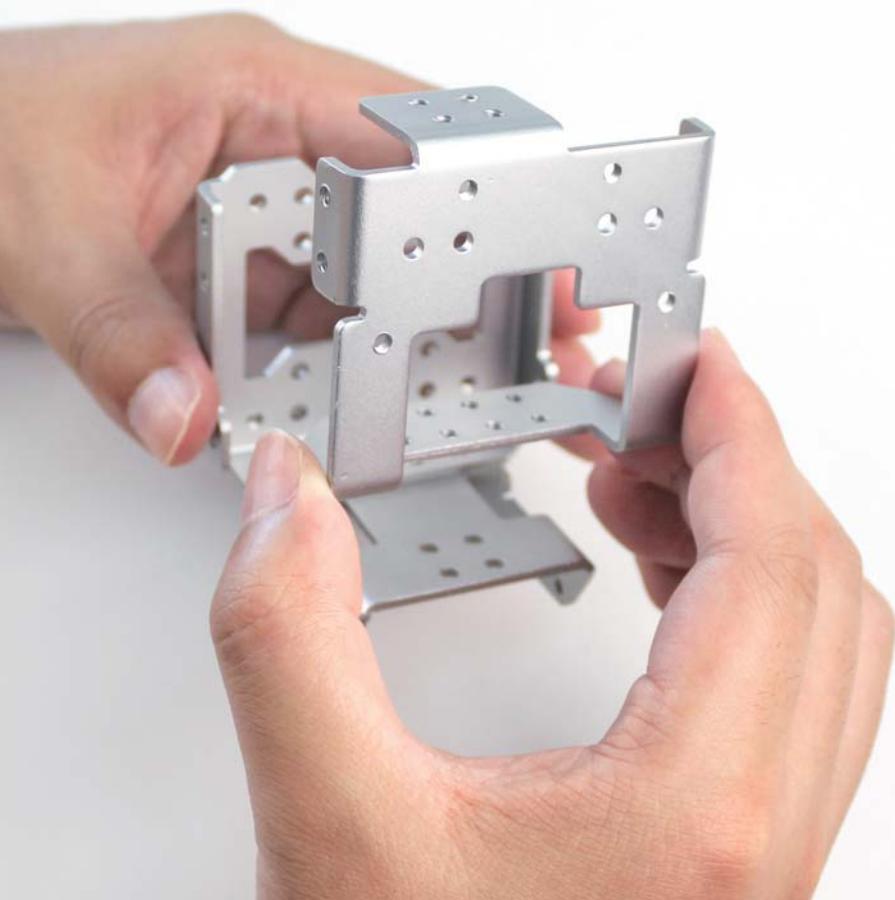
M3X4
X4



2



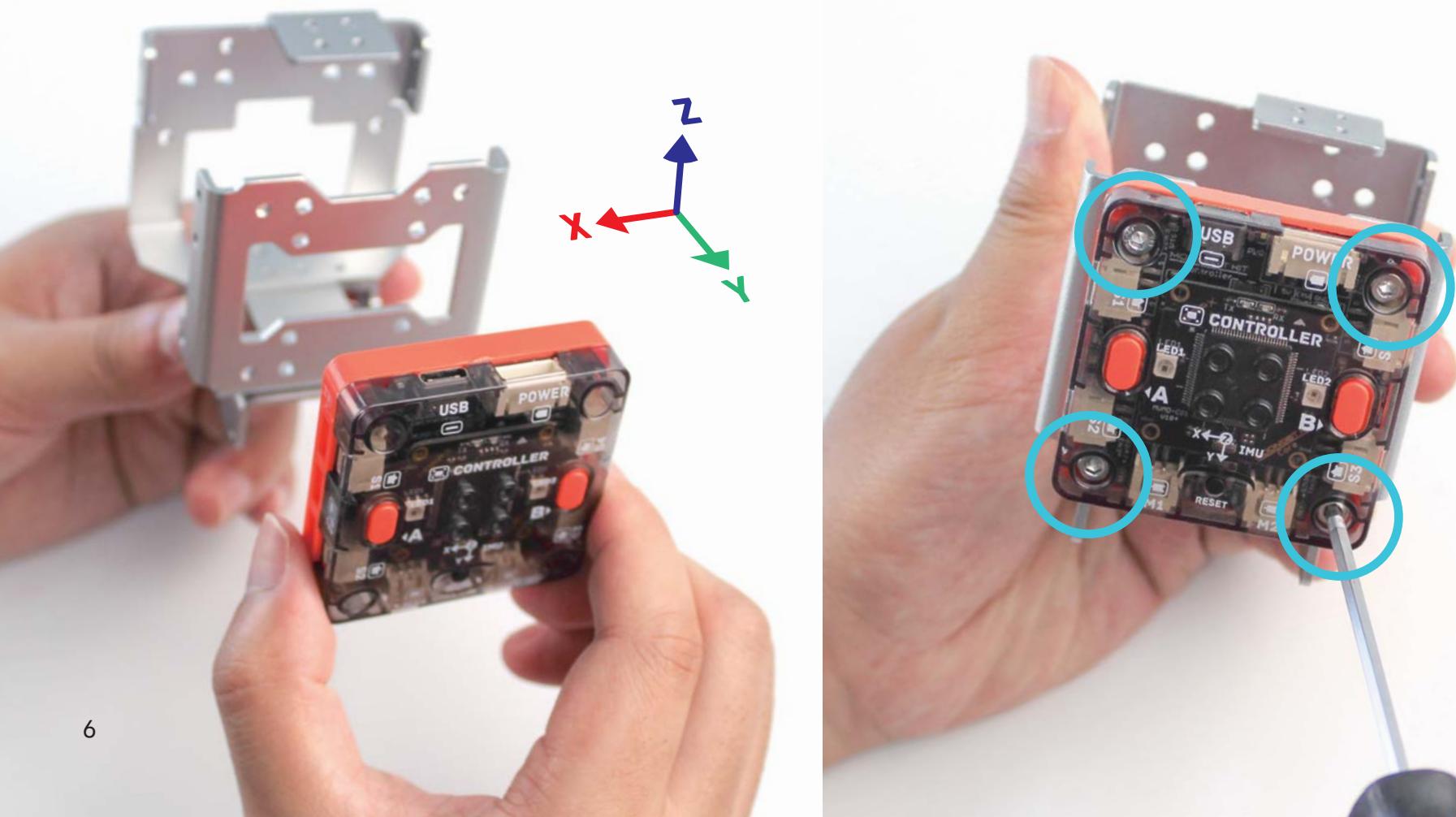
X4



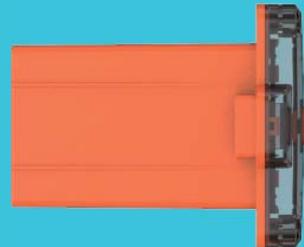
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X4



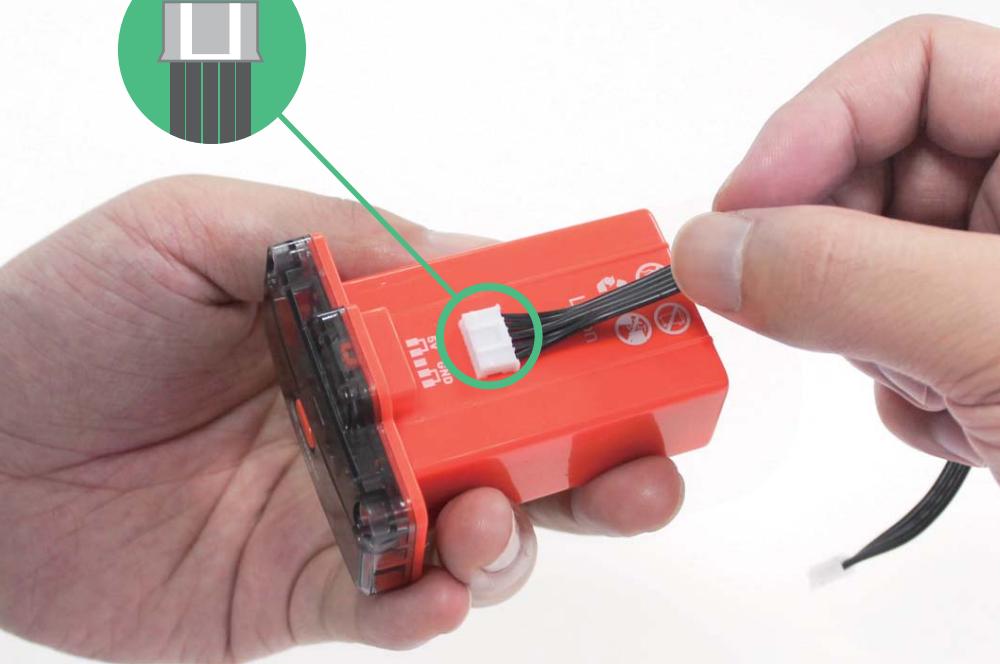
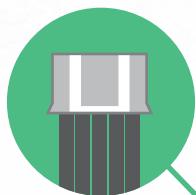
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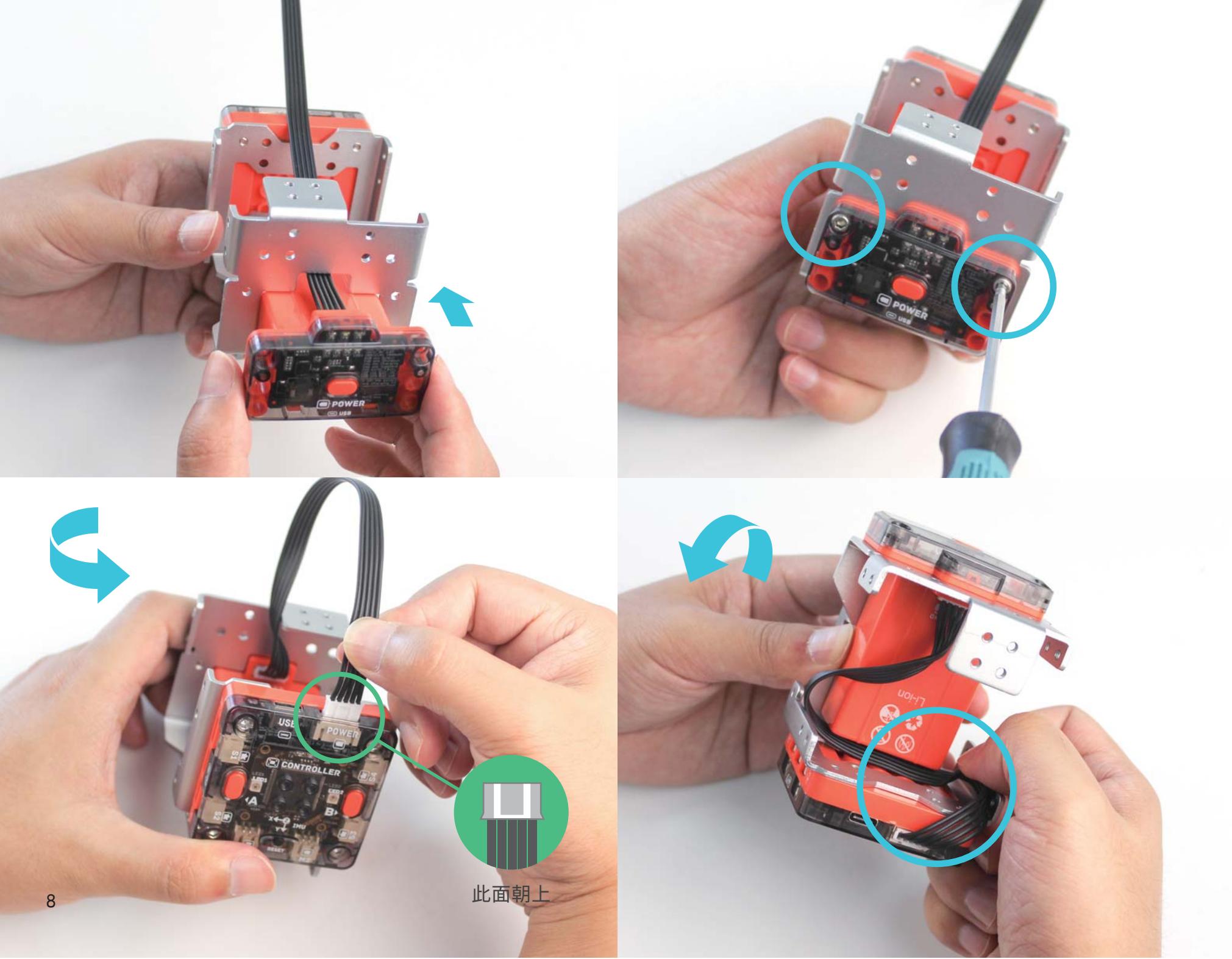


X2



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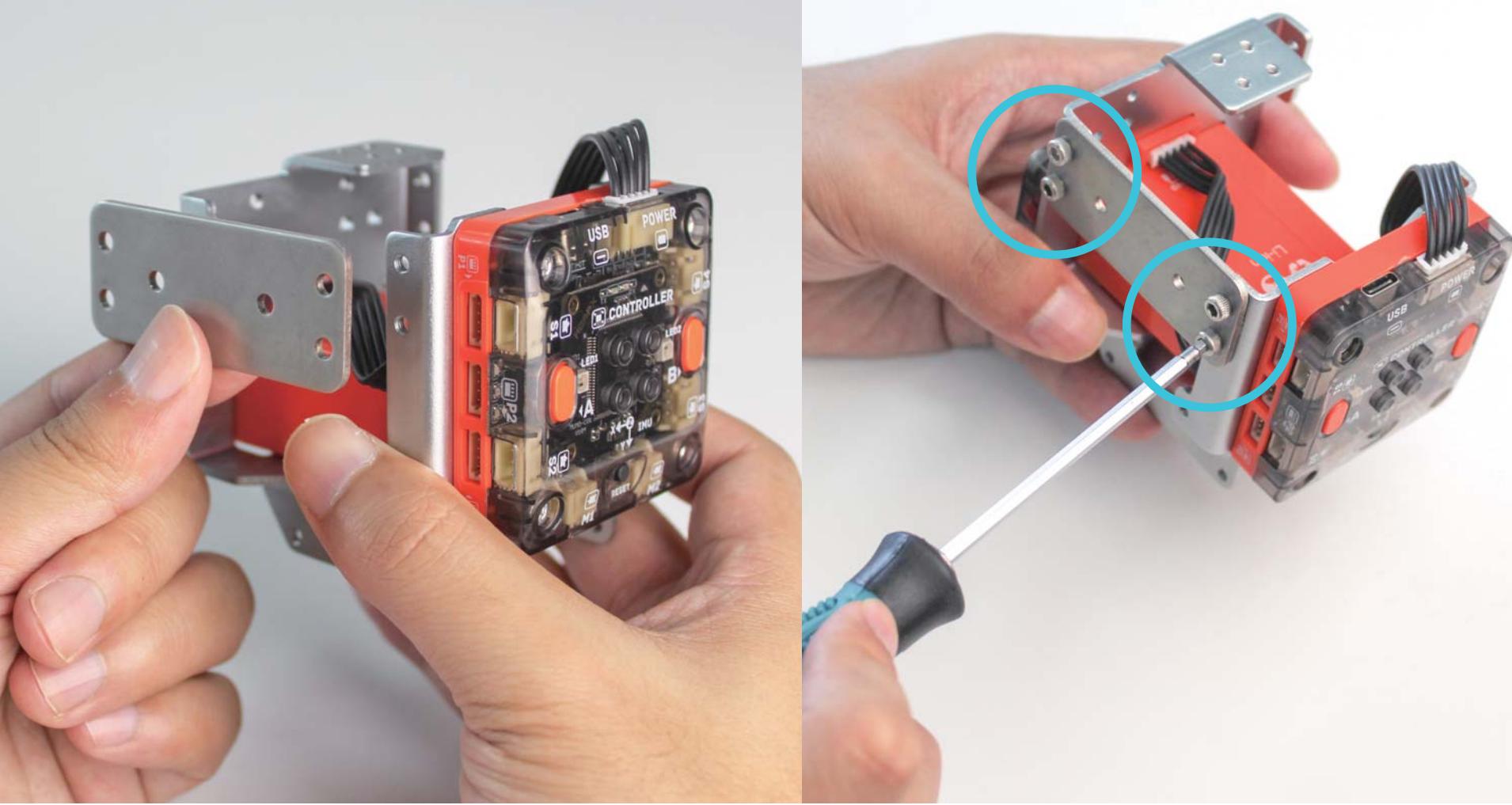




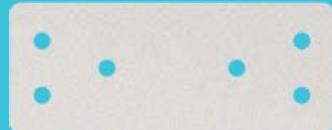
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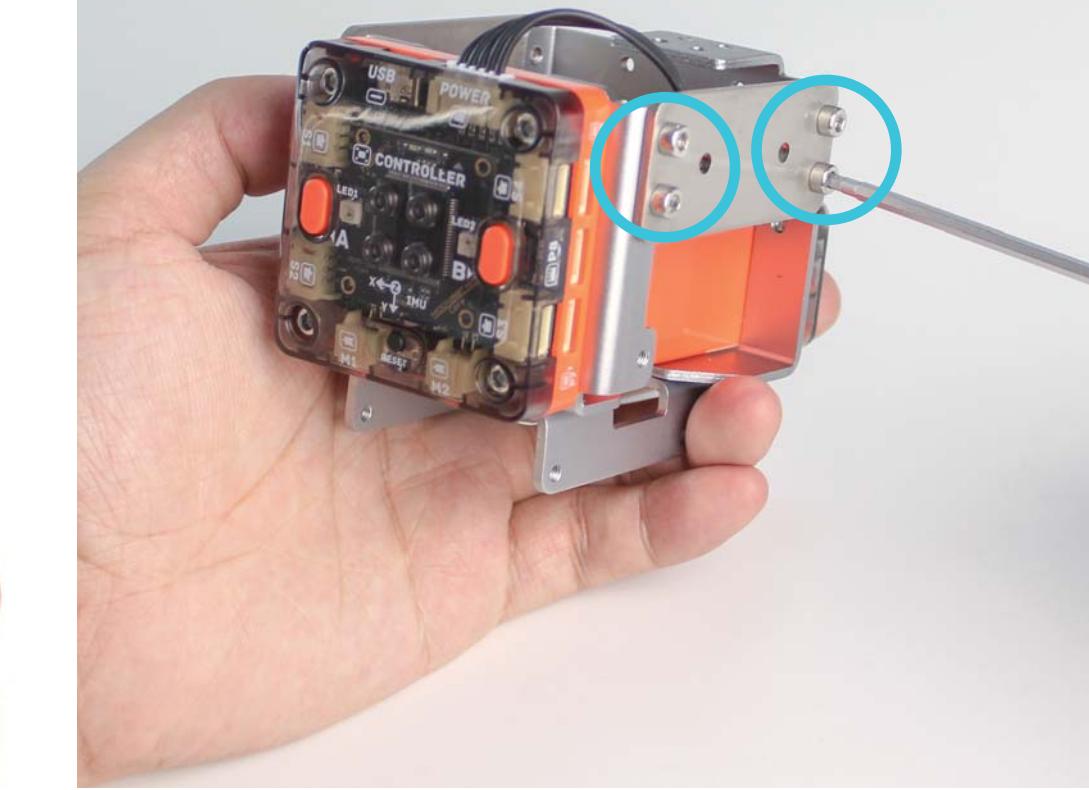
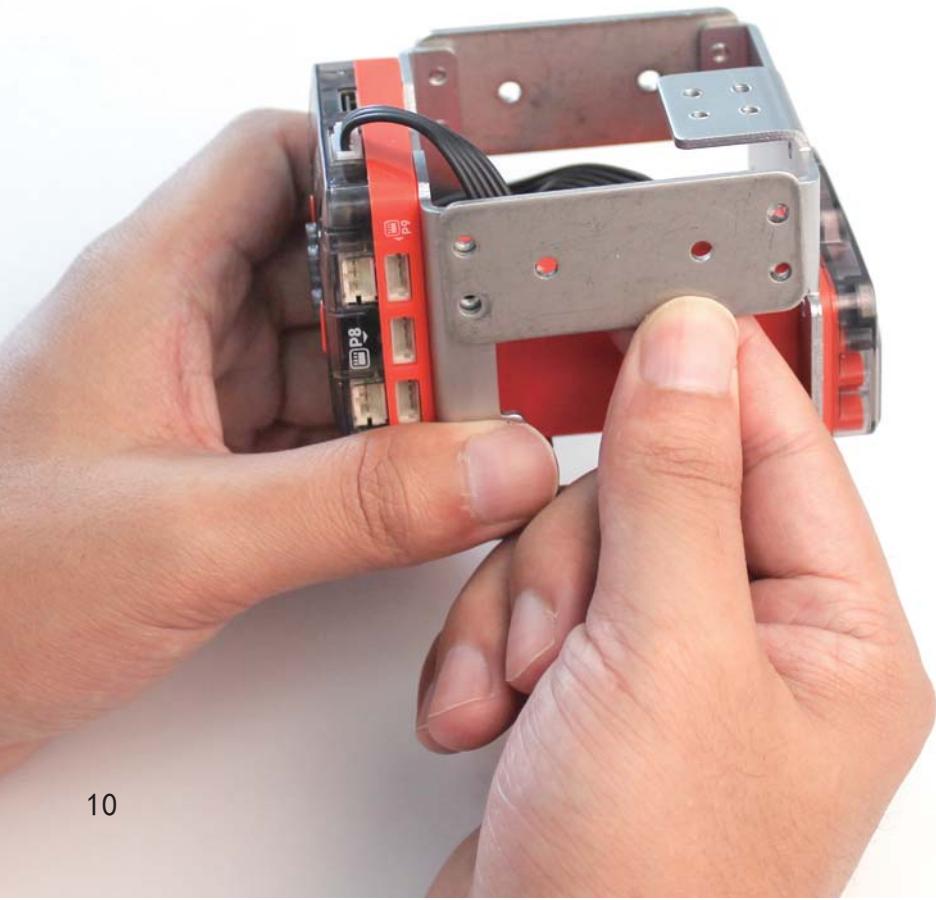
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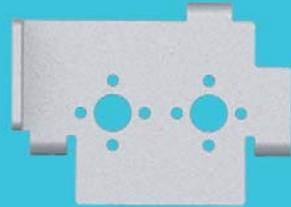
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X4

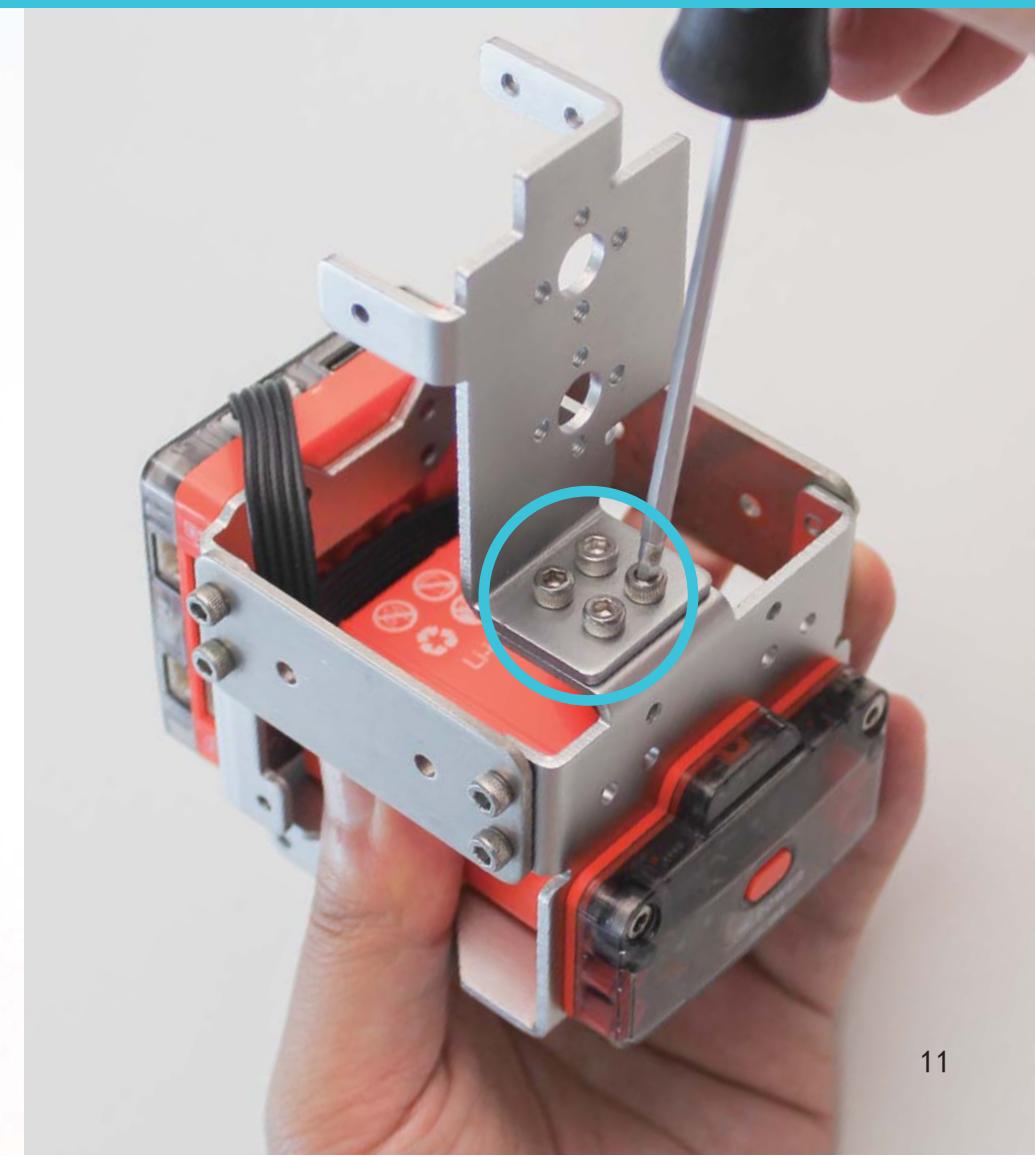
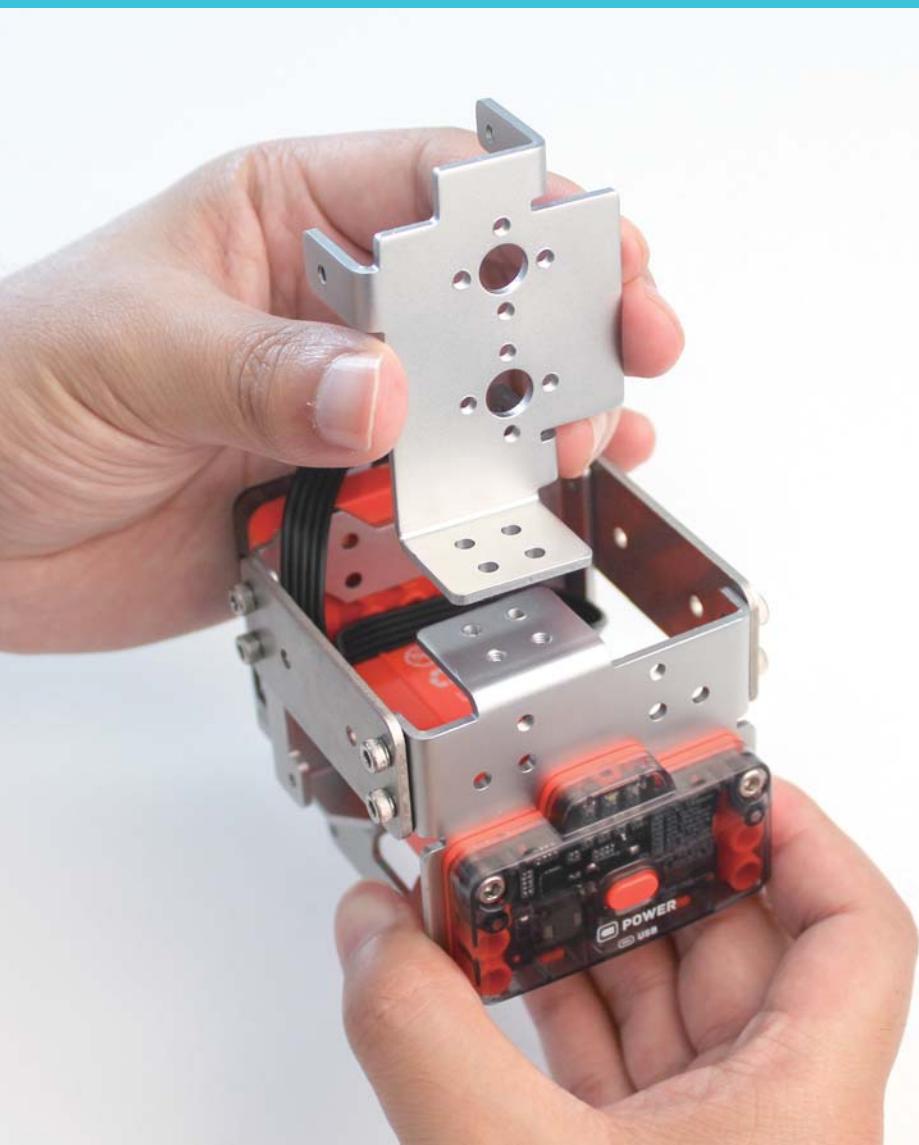


7



M3X4

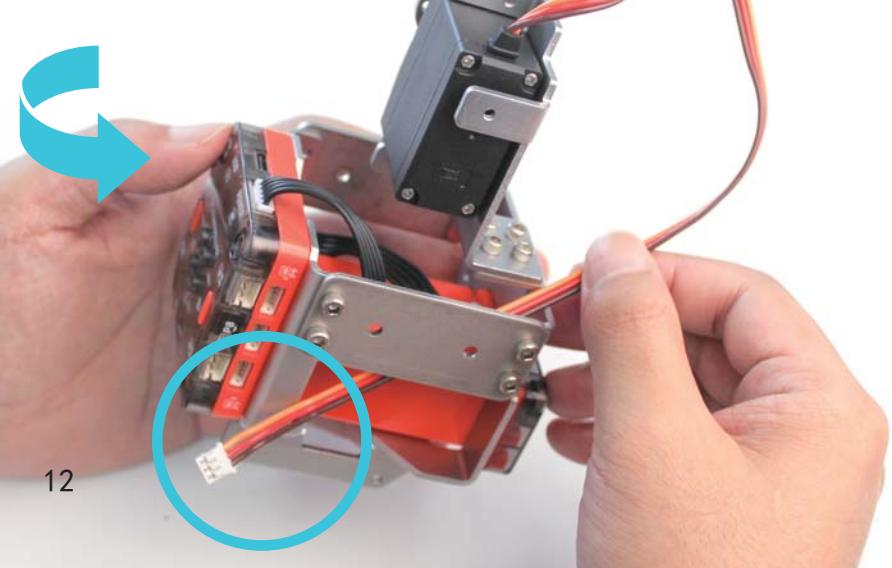
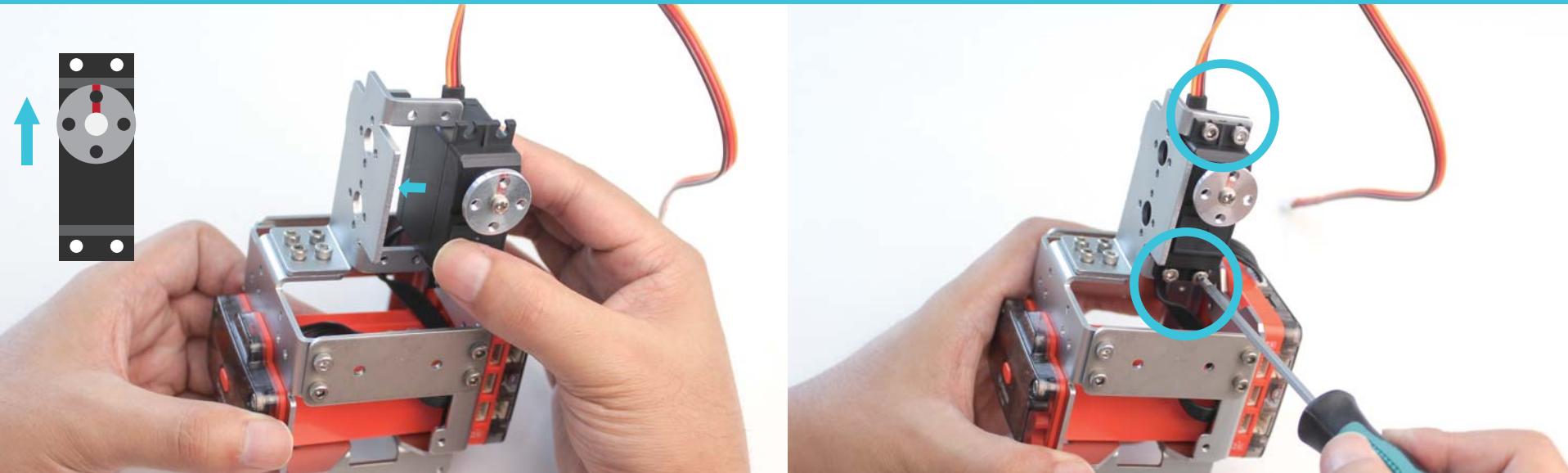
X4



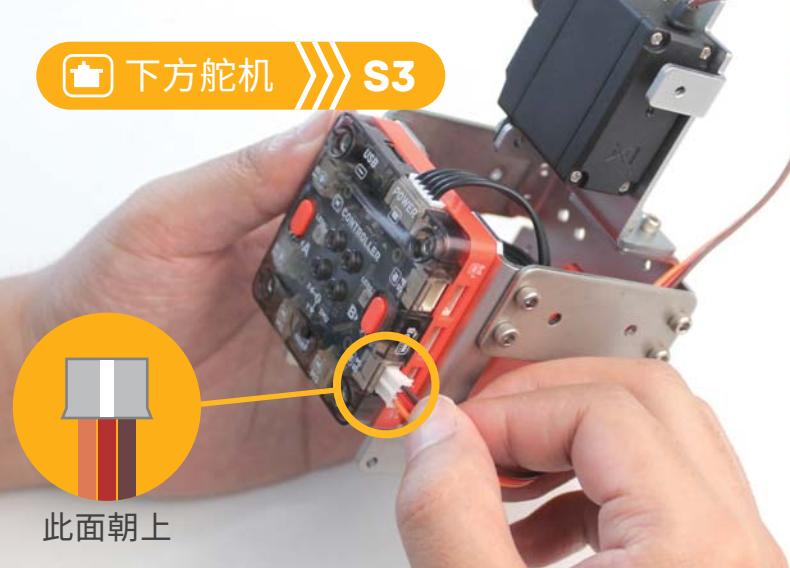
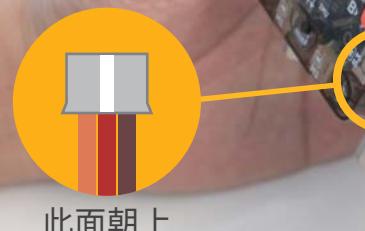
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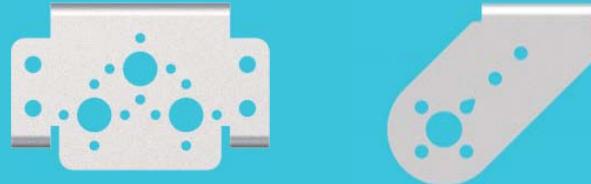
M3X4
X4



下方舵机 >> S3

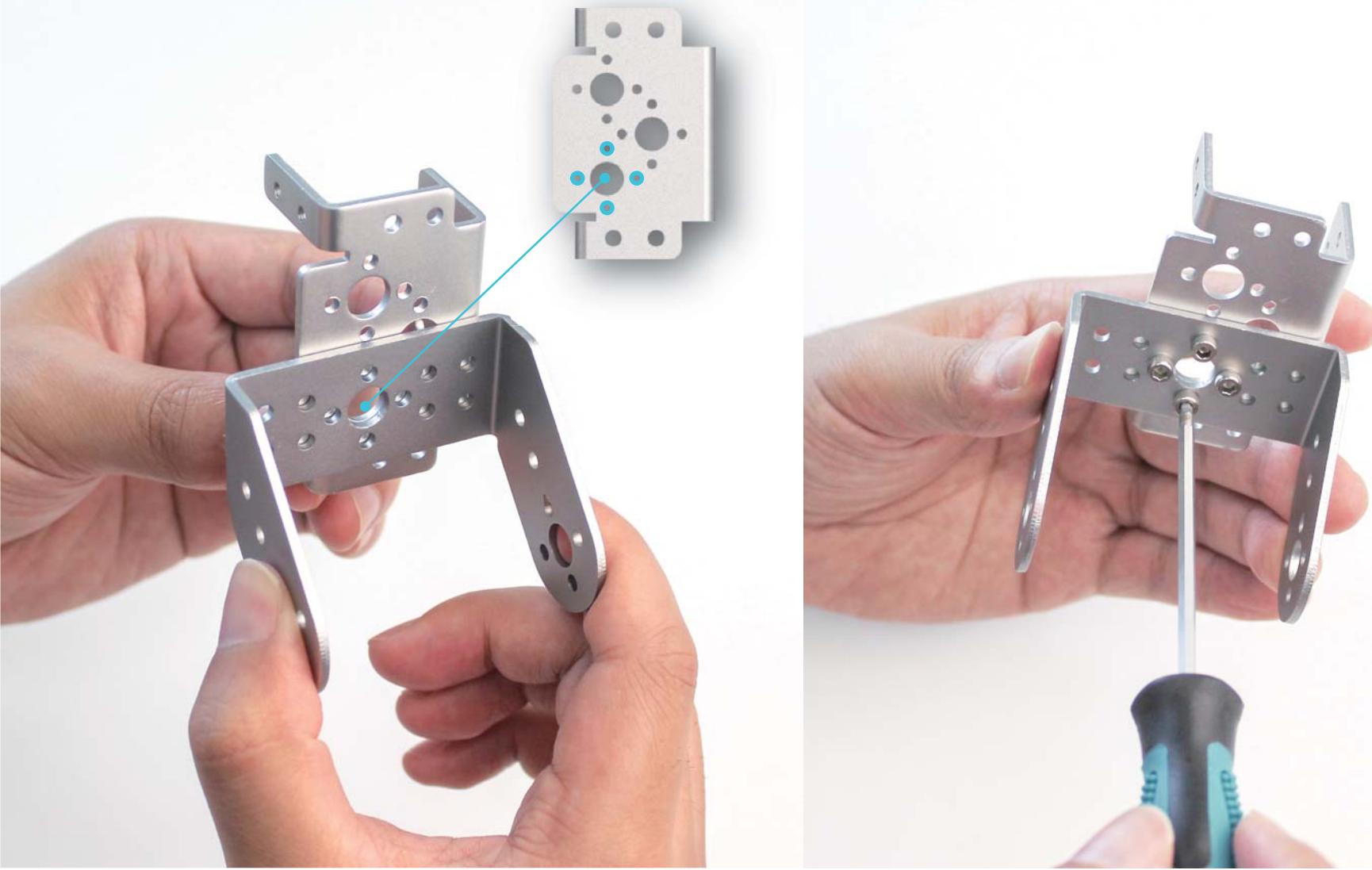


9



M3X4

X4

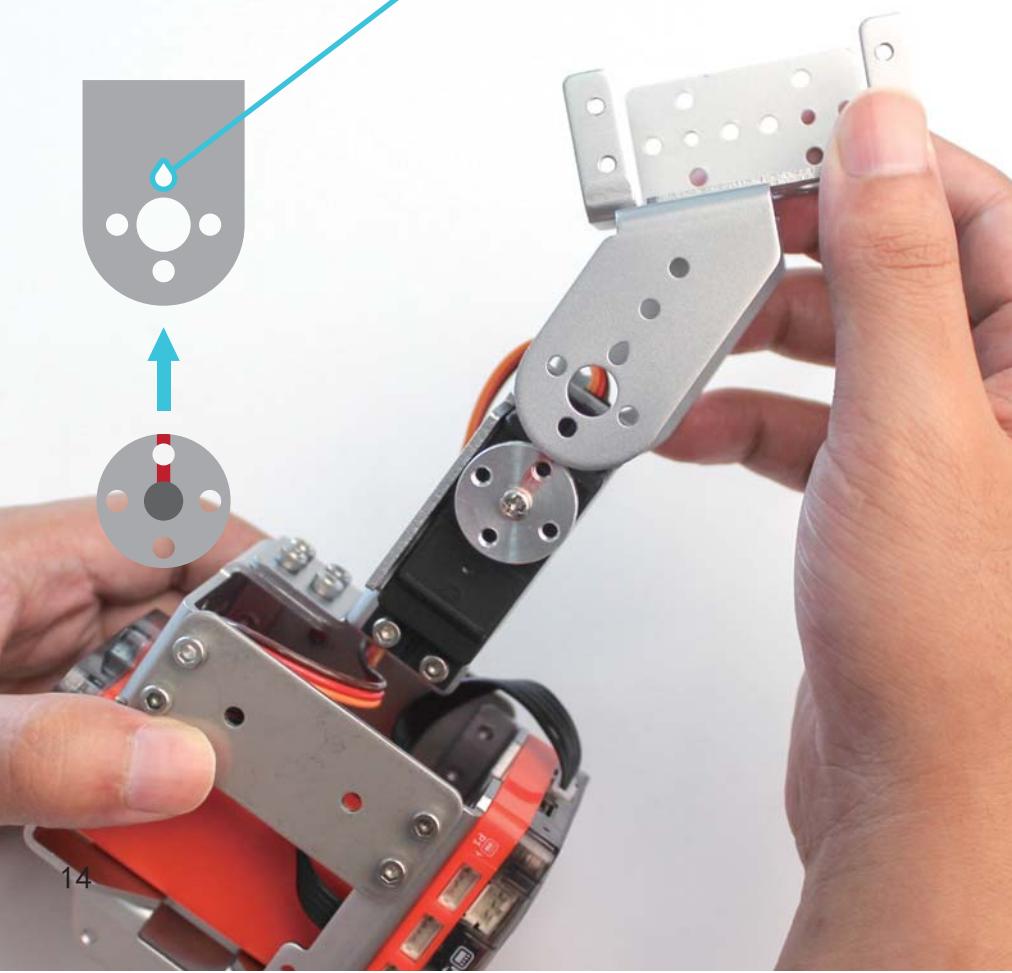


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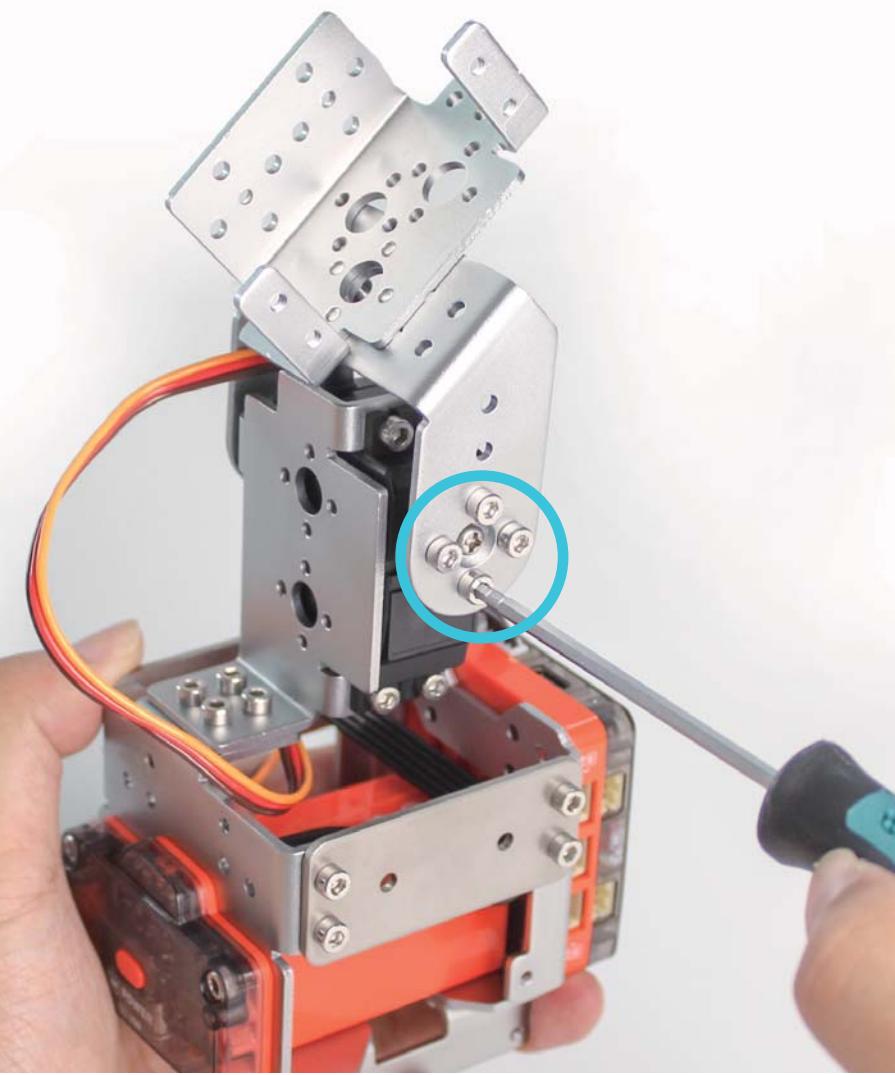


X4

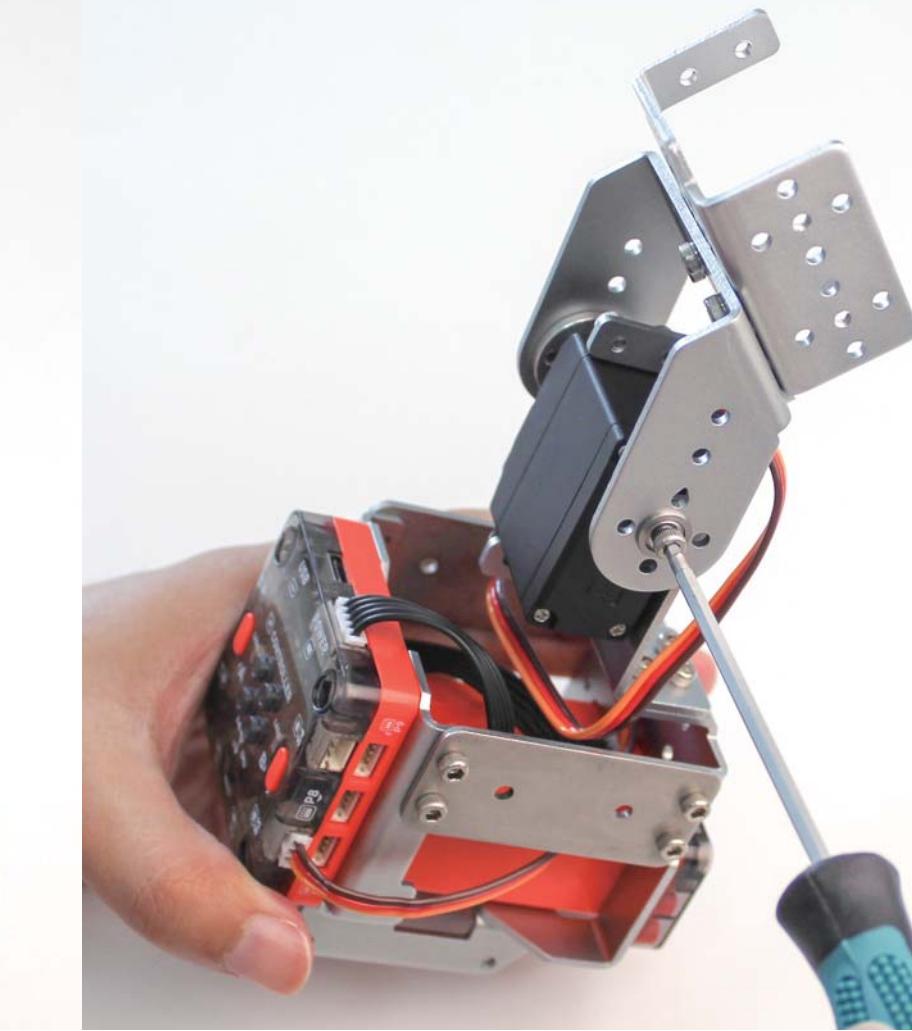
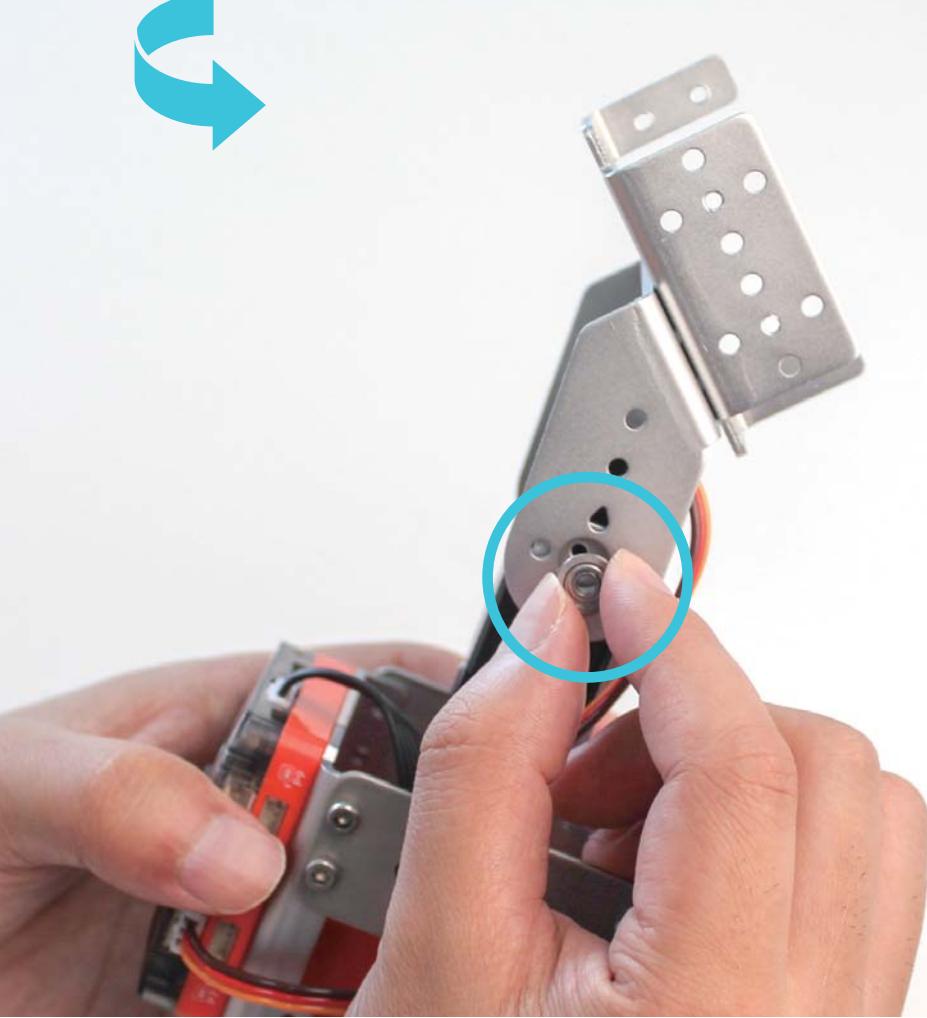
请保持此图标指示方向和舵机盘标记一致



14



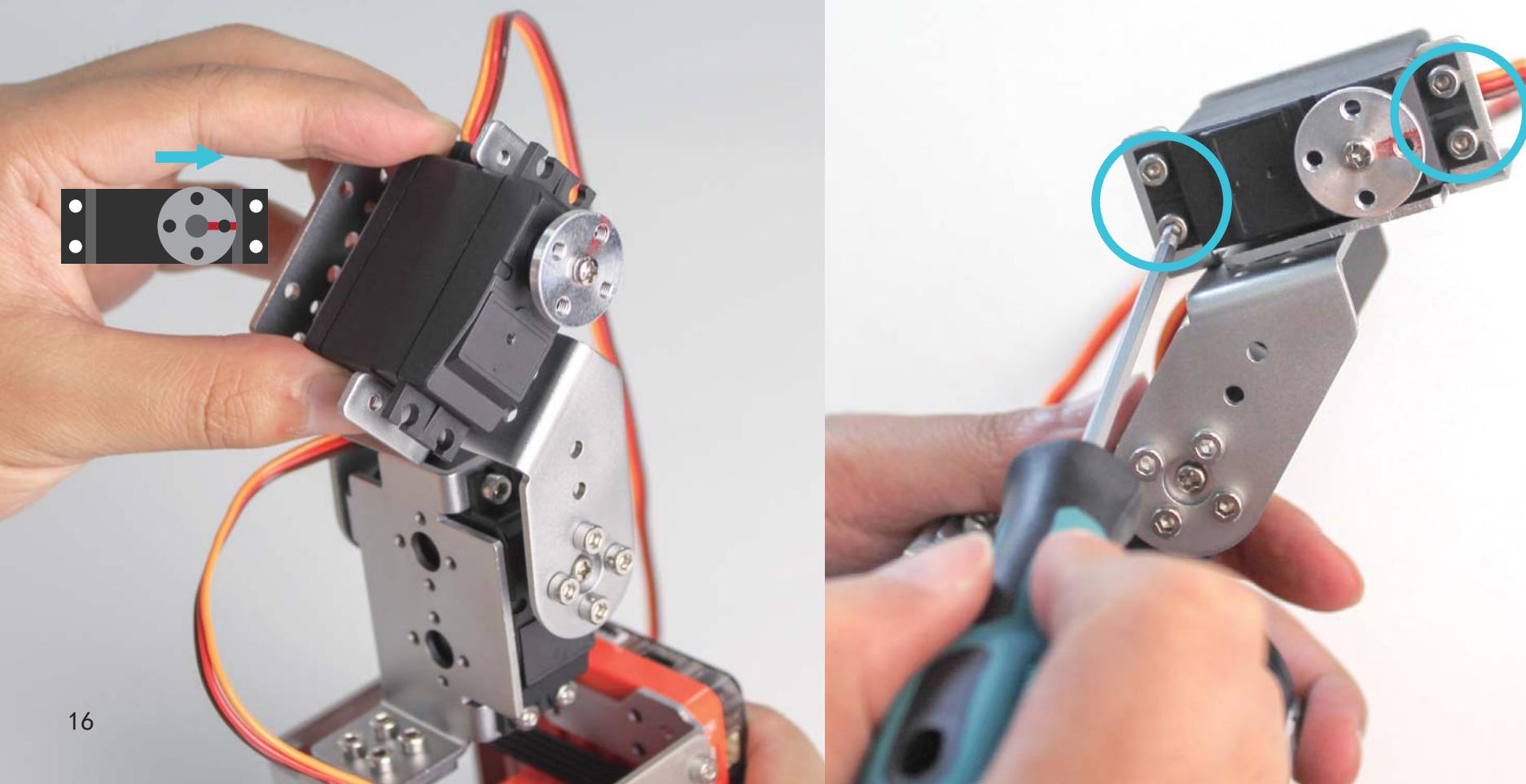
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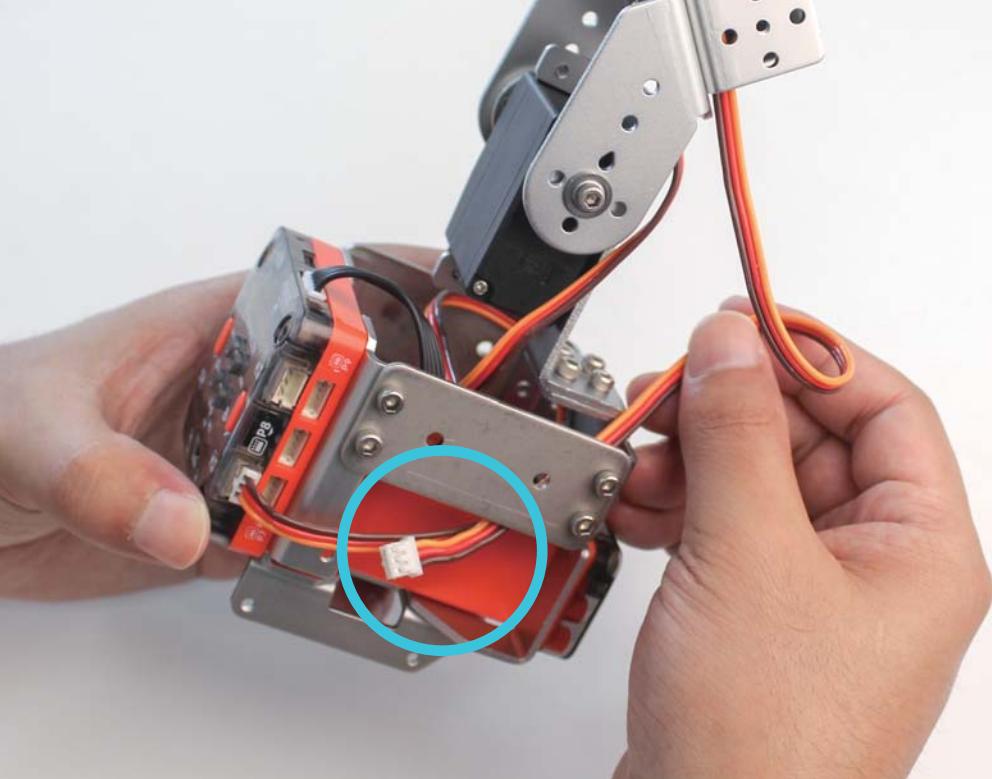
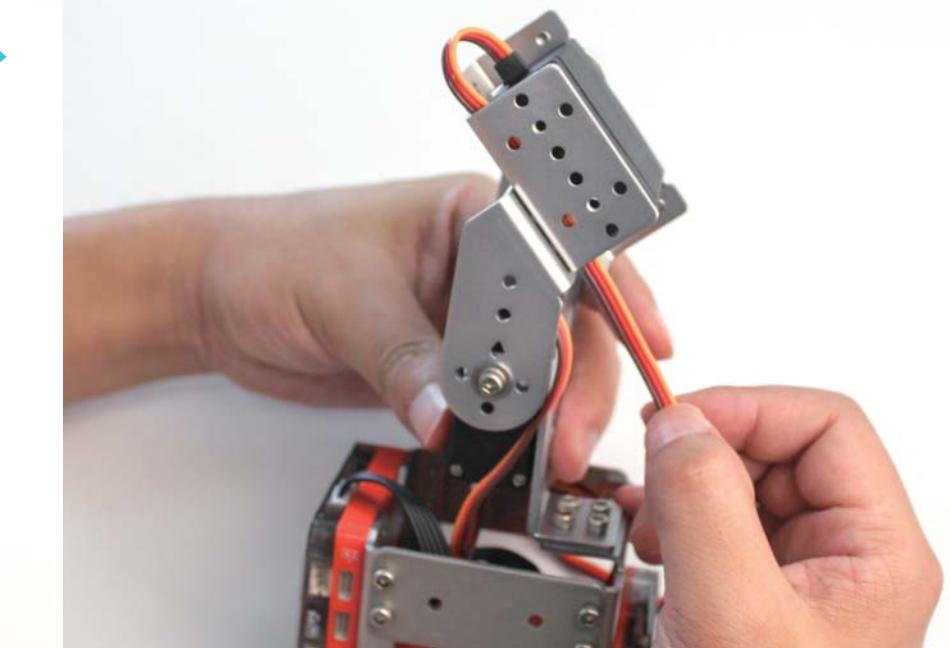
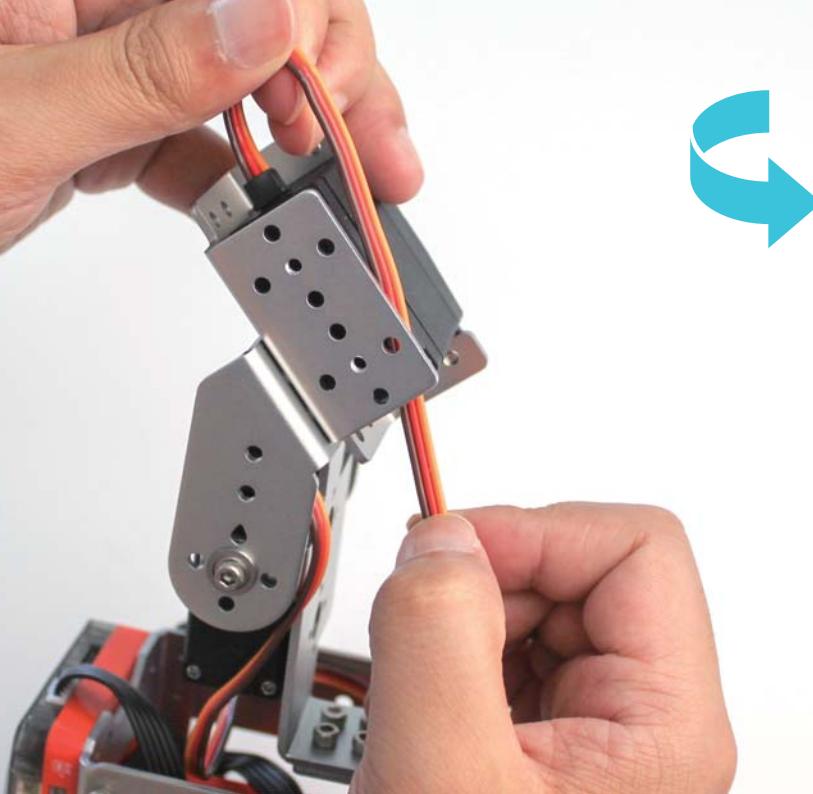


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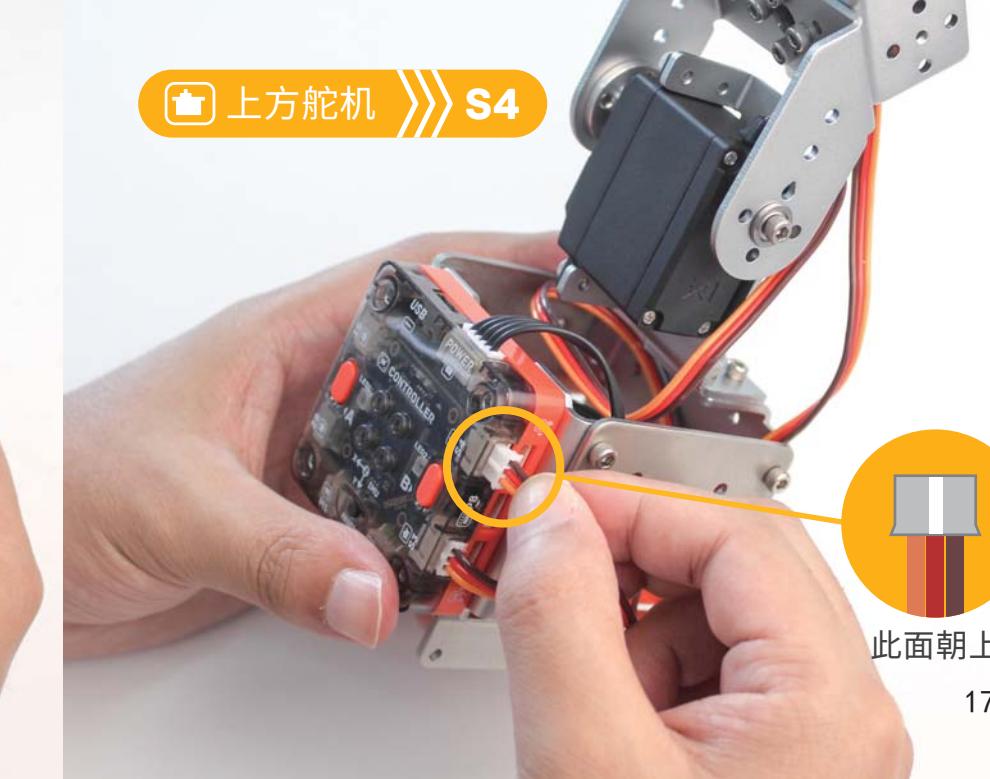


X4



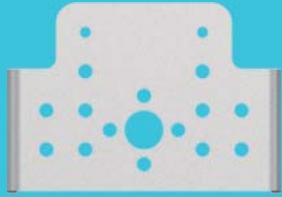


上方舵机 ➞ S4

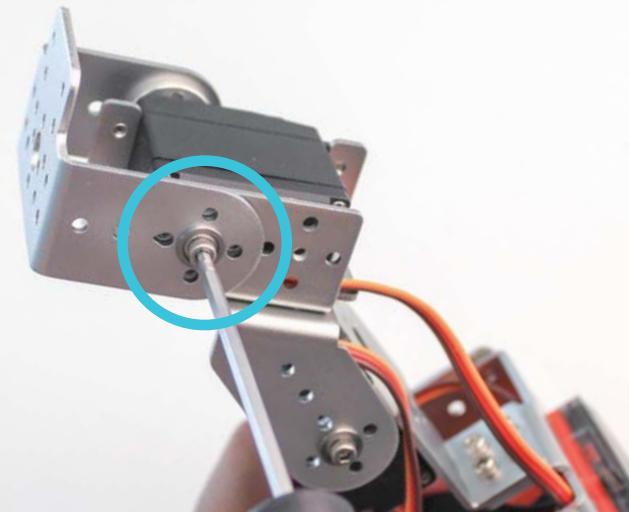
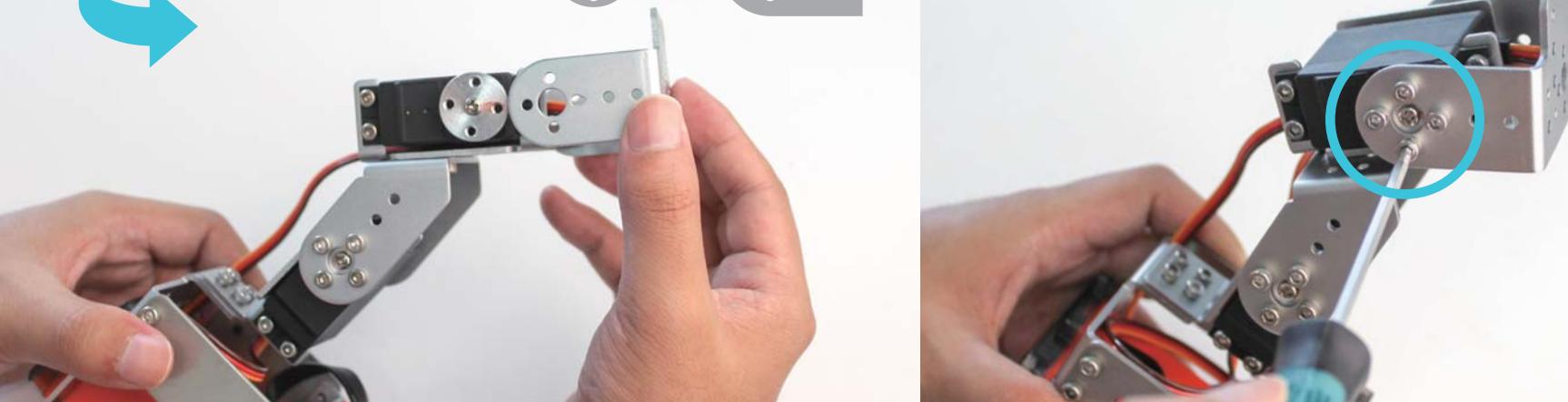


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13



X4



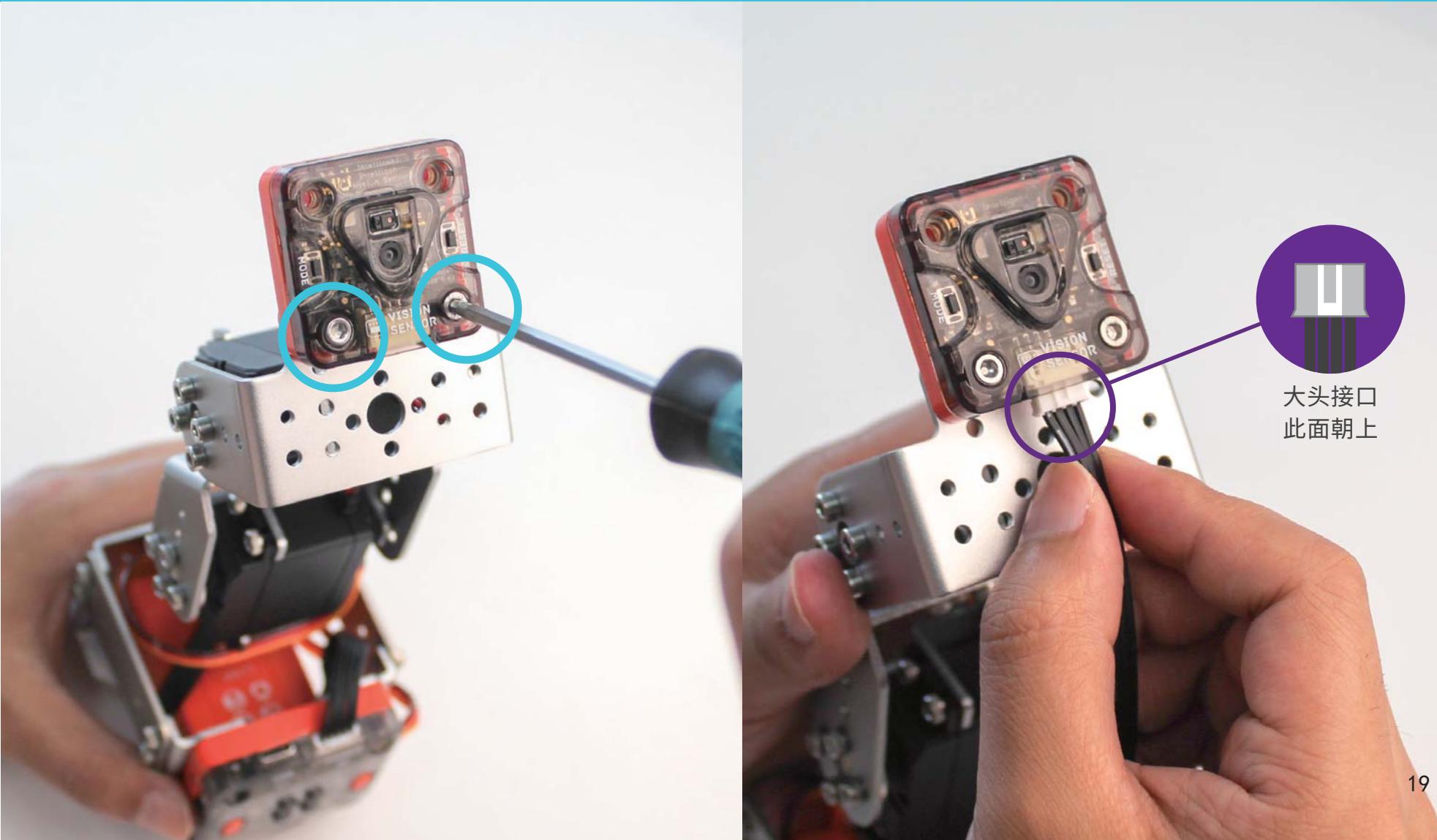
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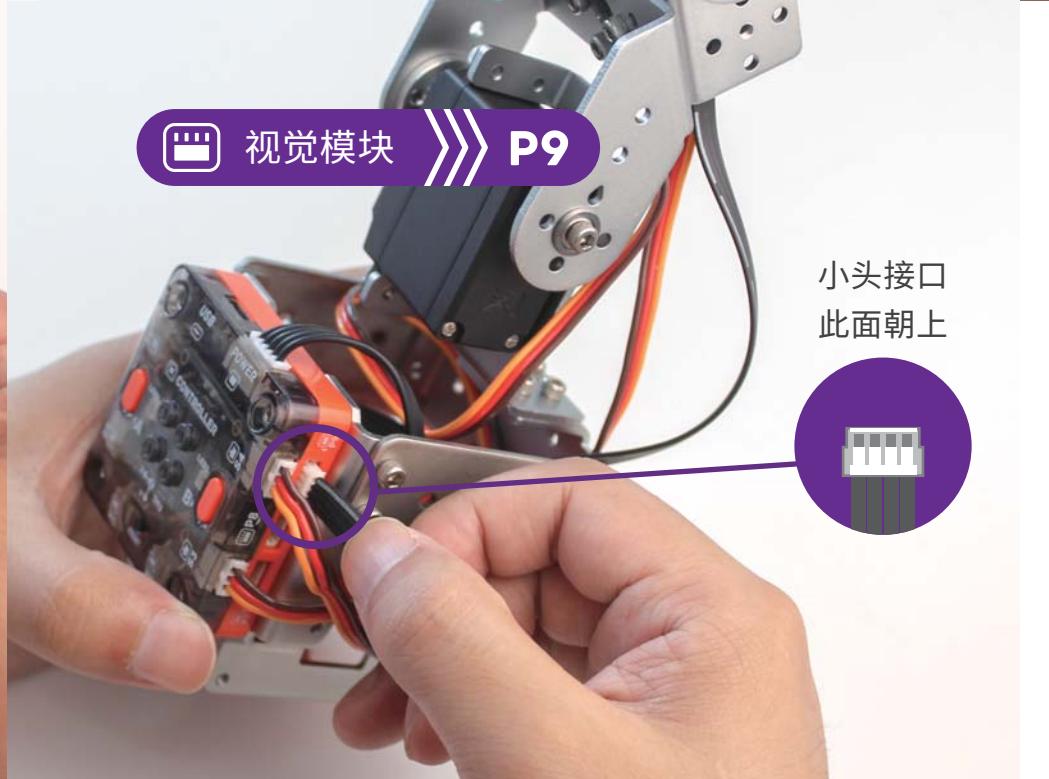
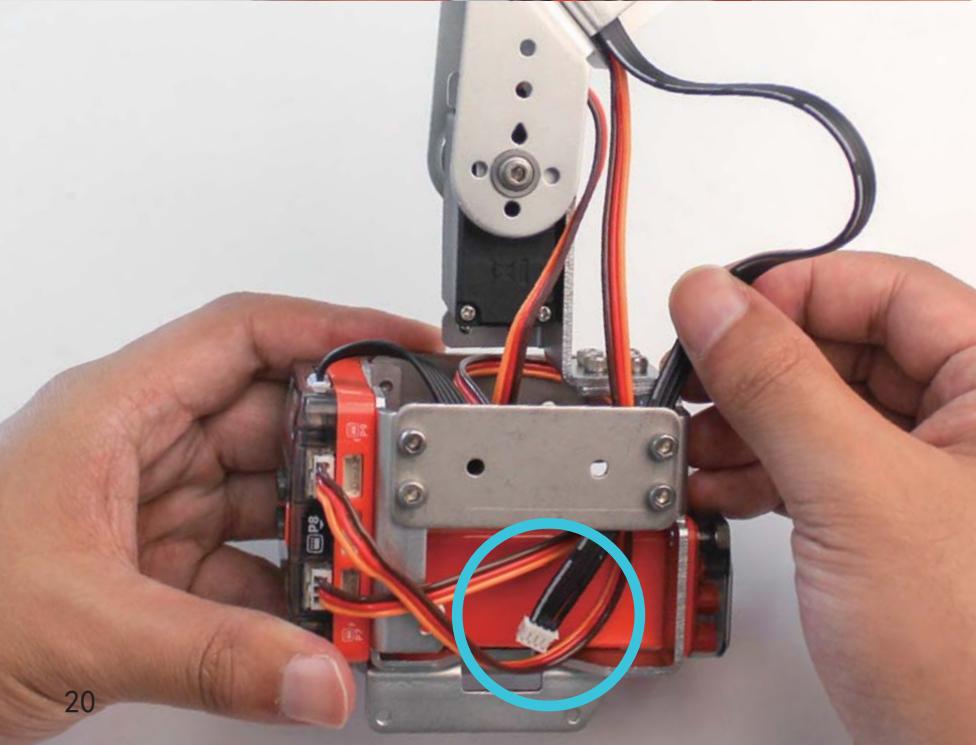
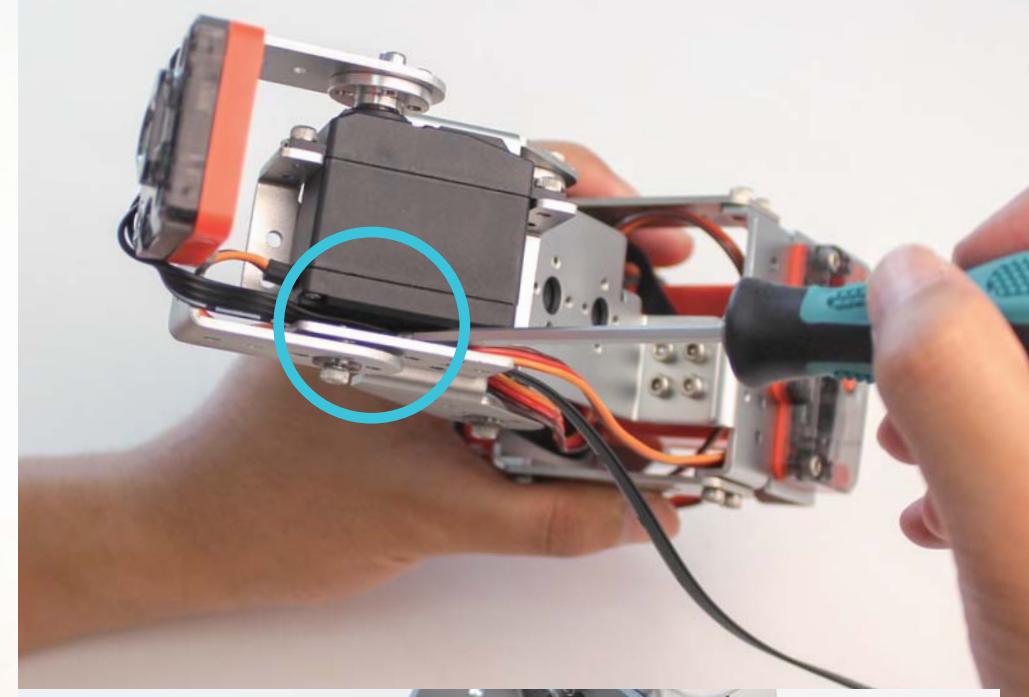
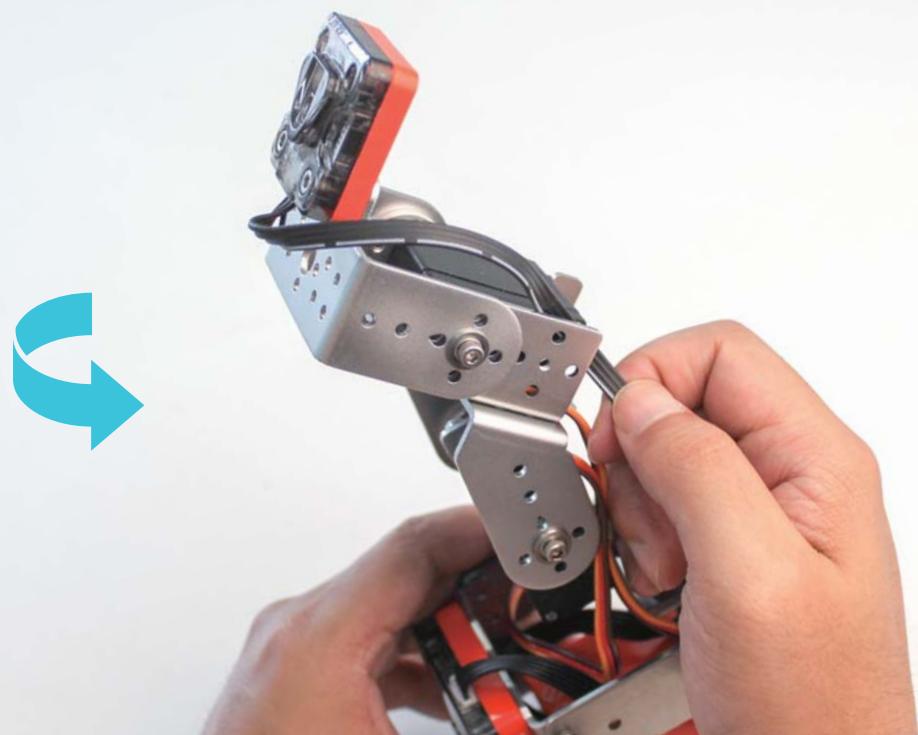


X2



4PIN ↗ 30CM



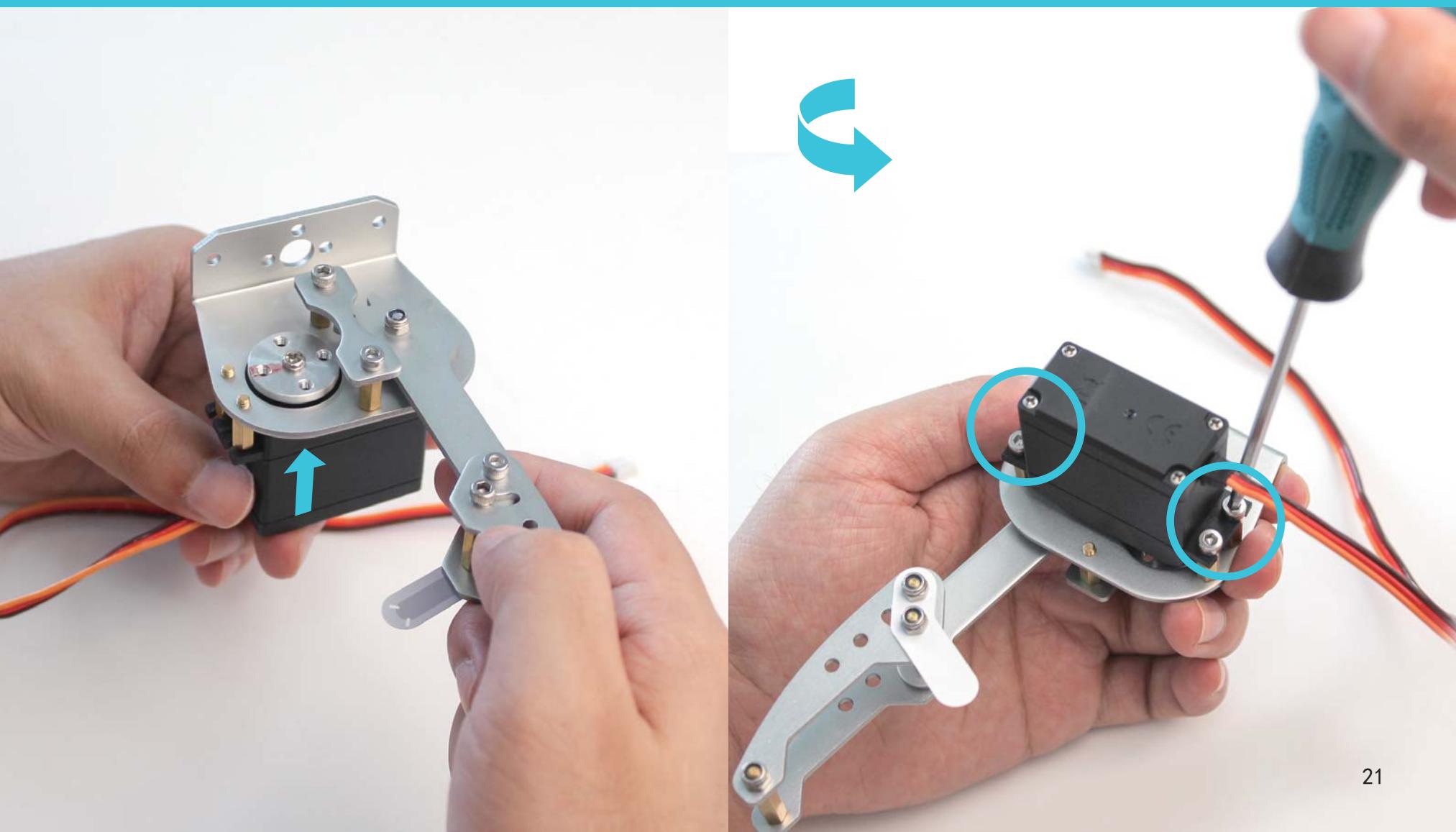


16



M3X4
x4

x4

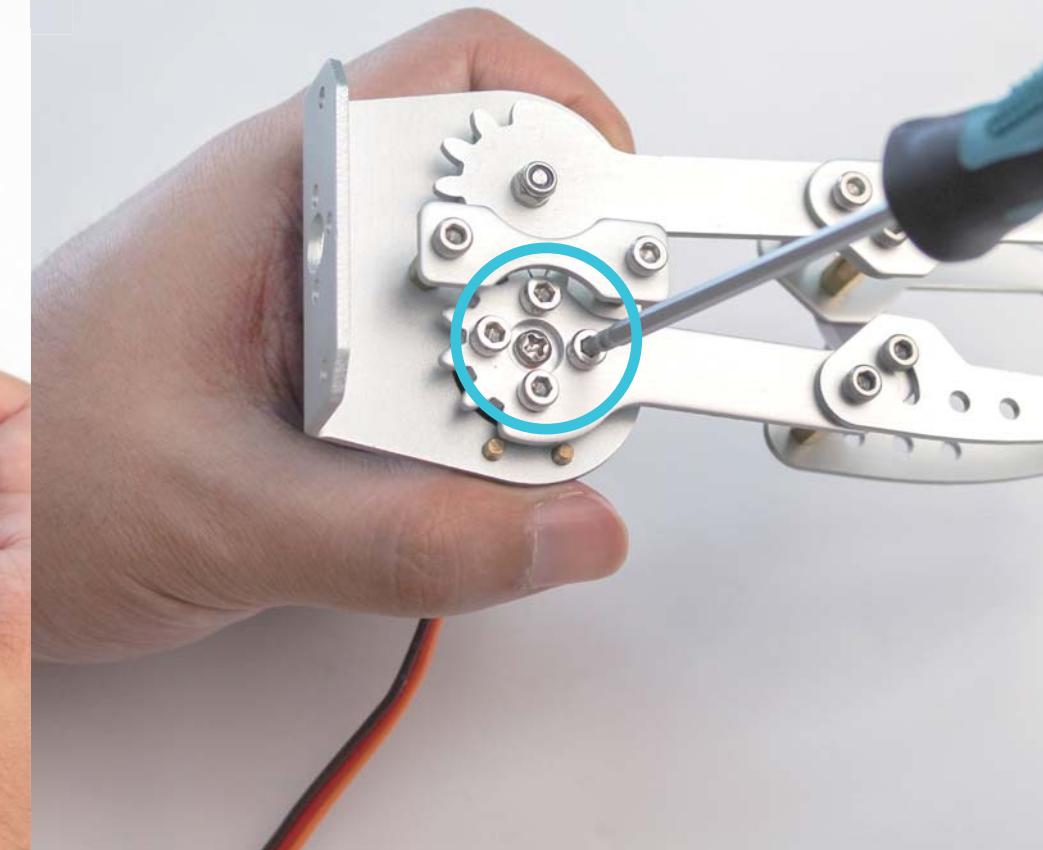
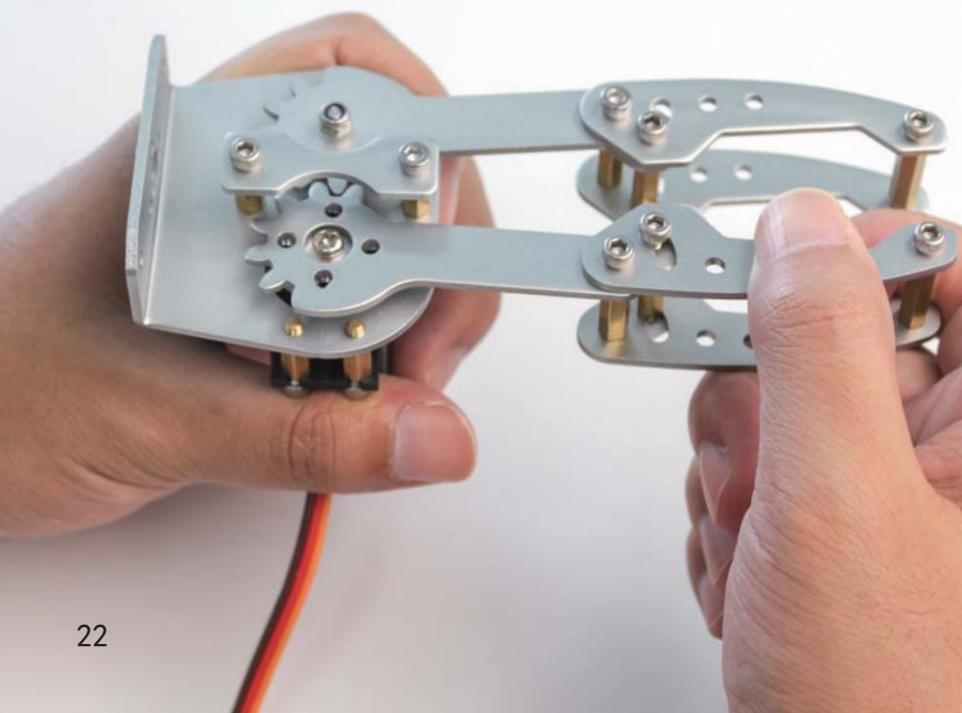


17



M3X4

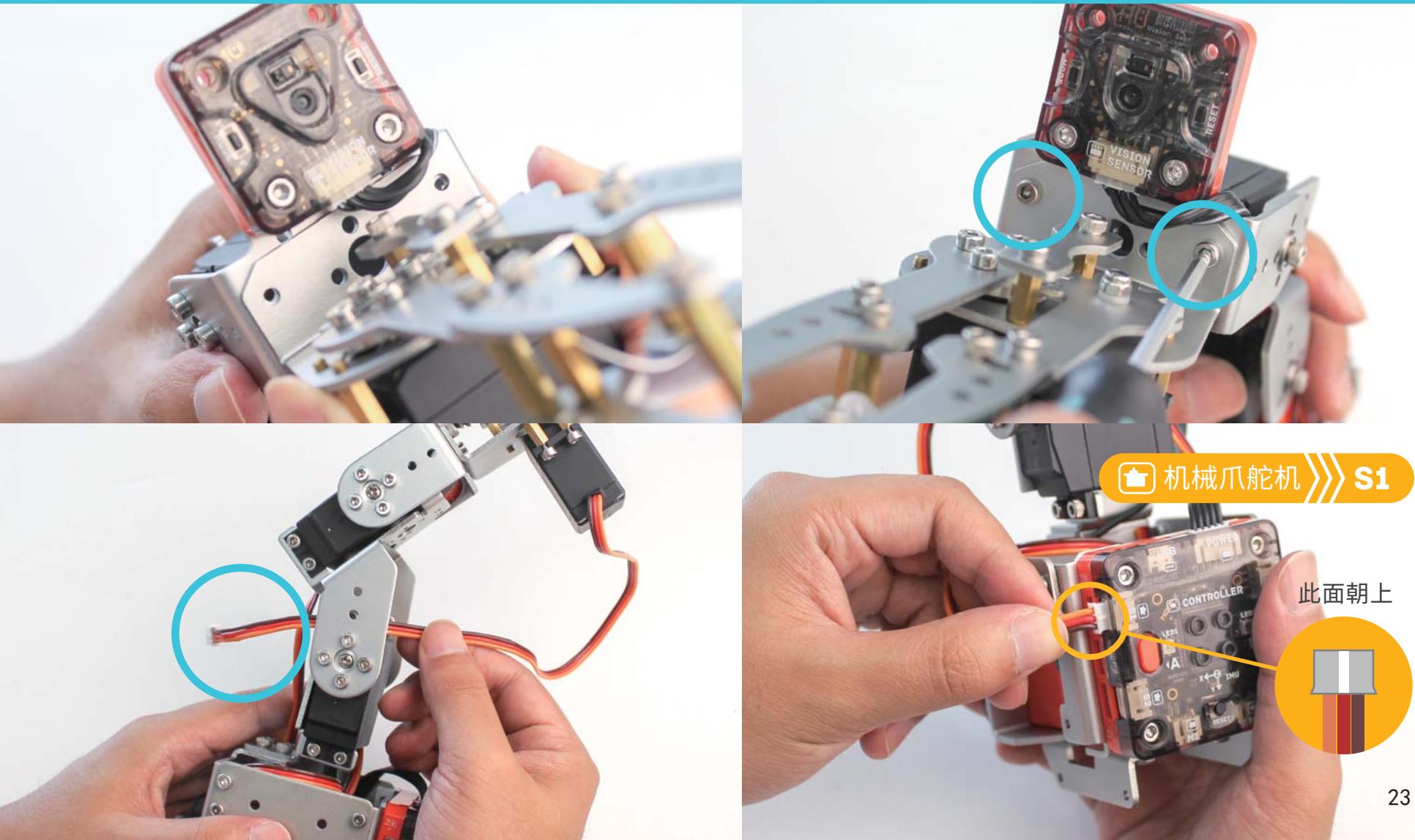
X4



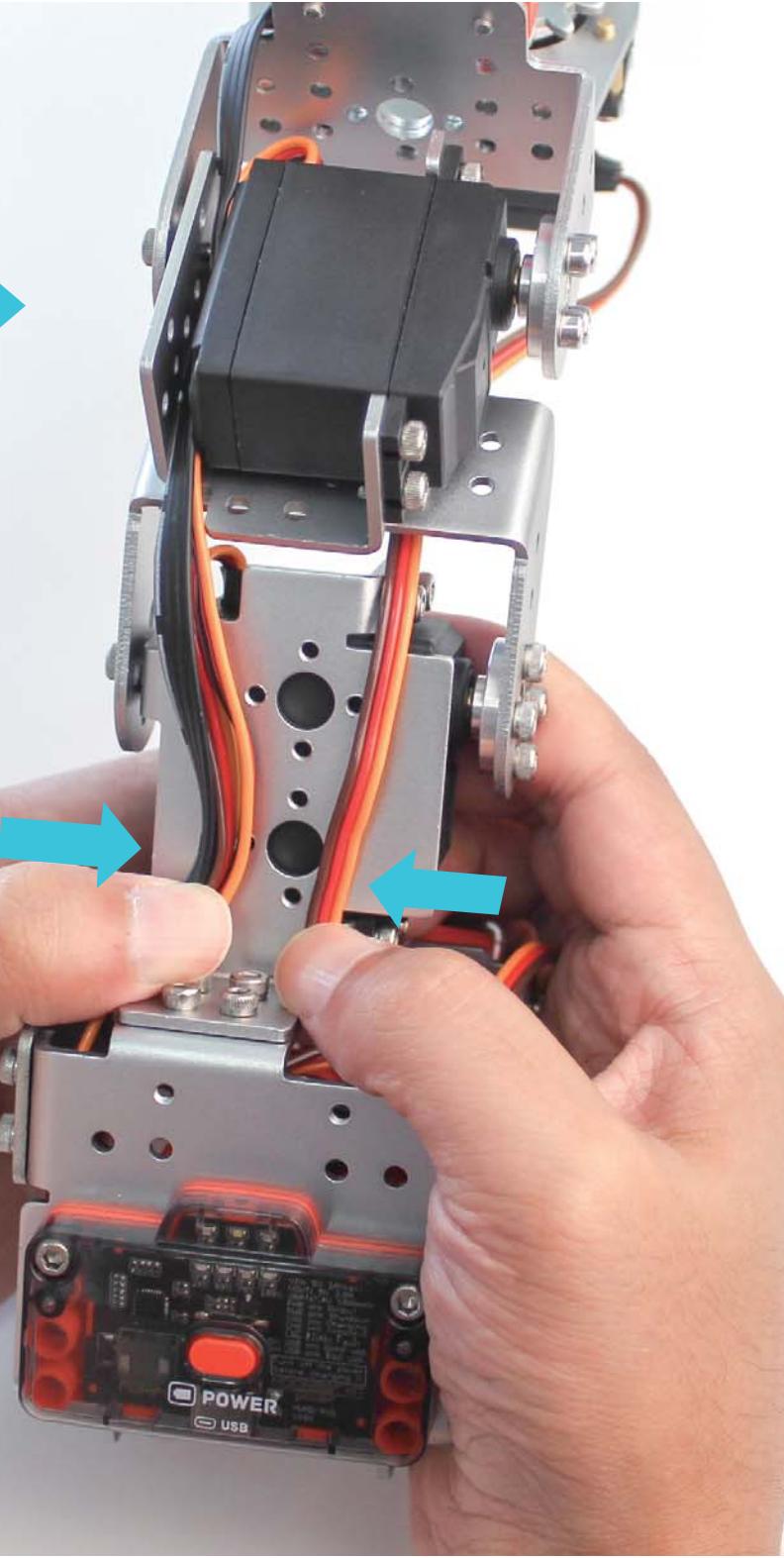
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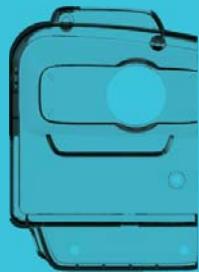
X2



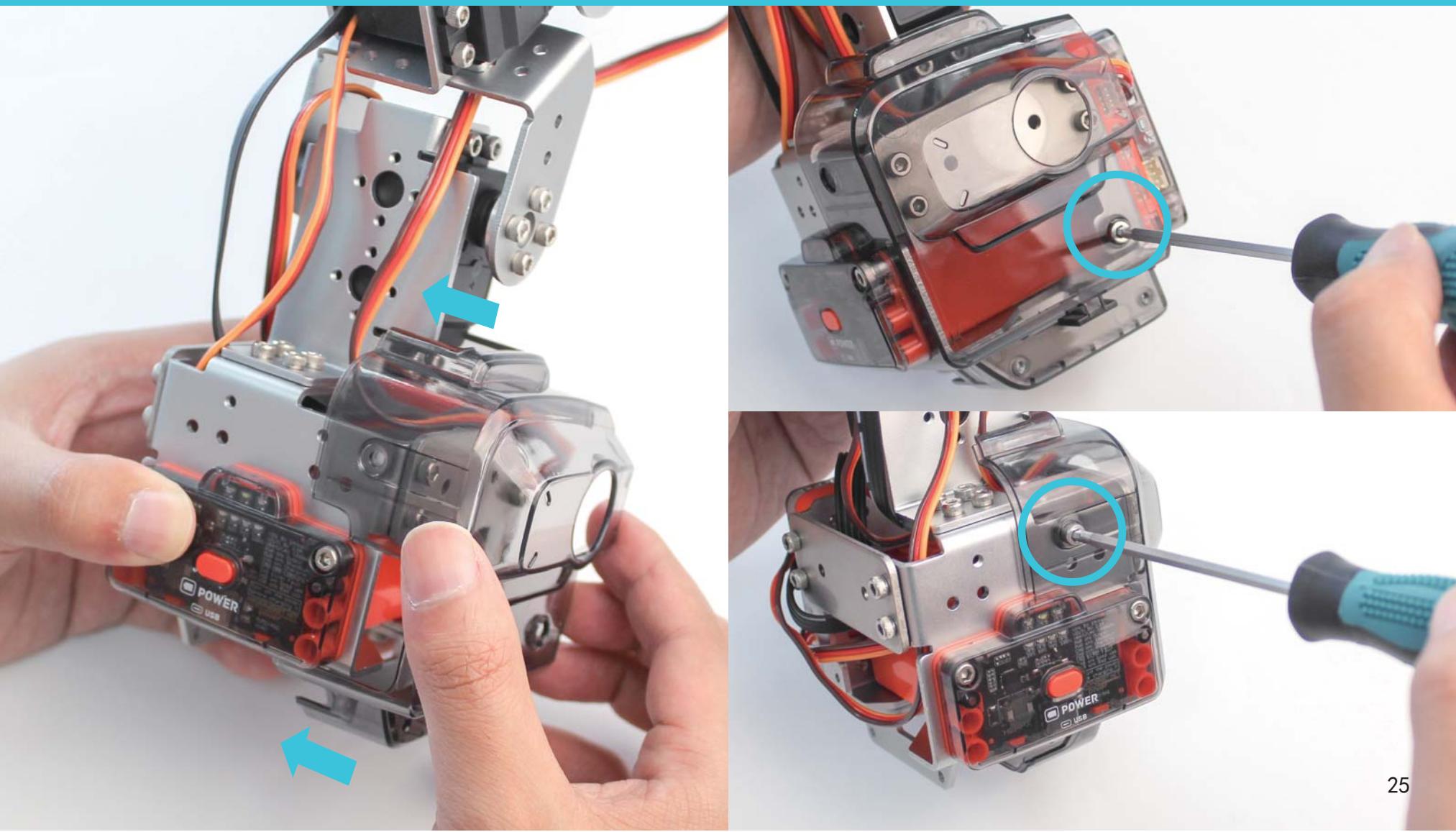
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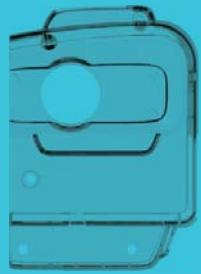
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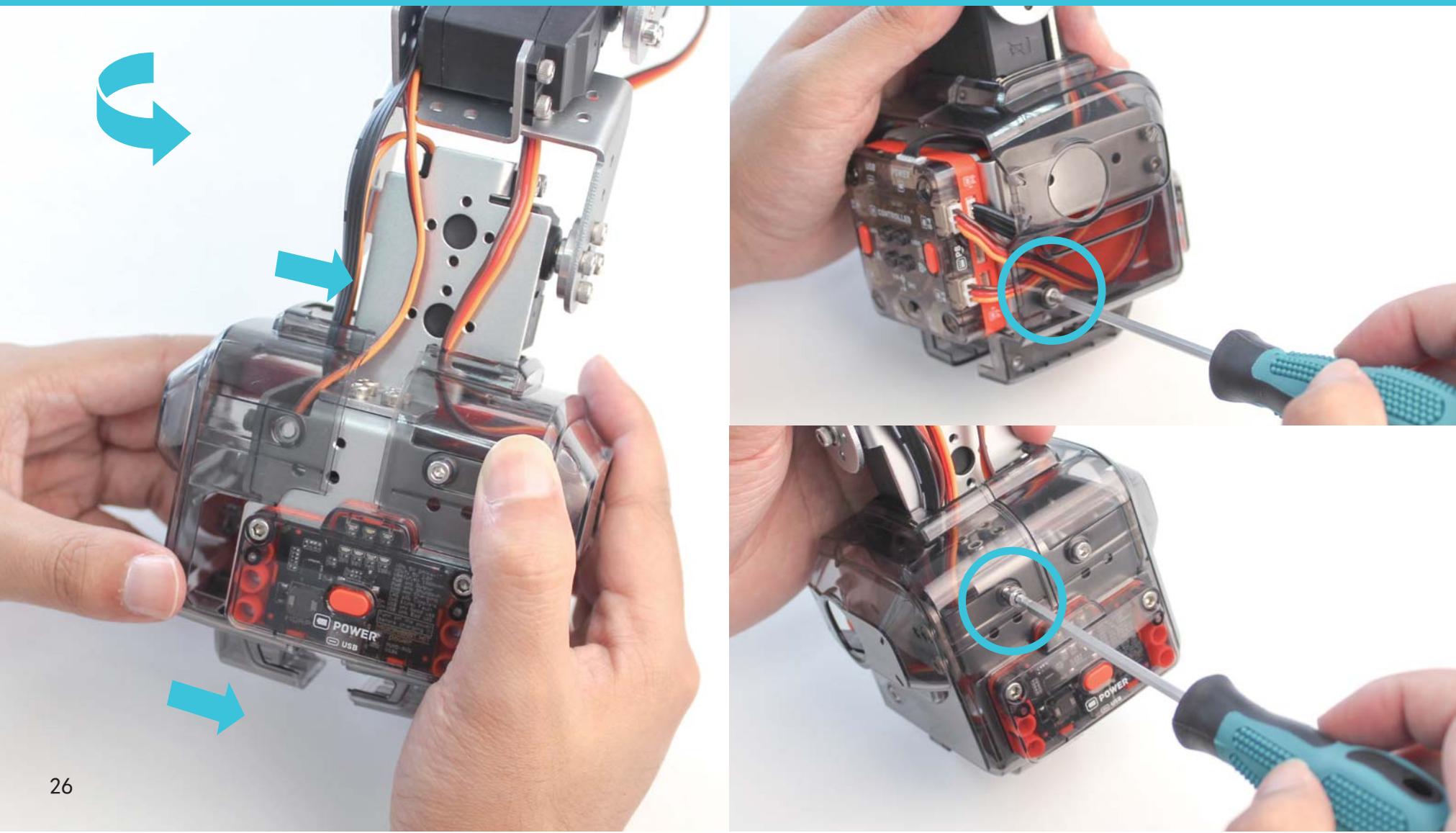
M3X4
X2



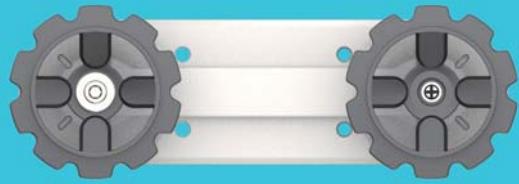
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M3X4
X2



22



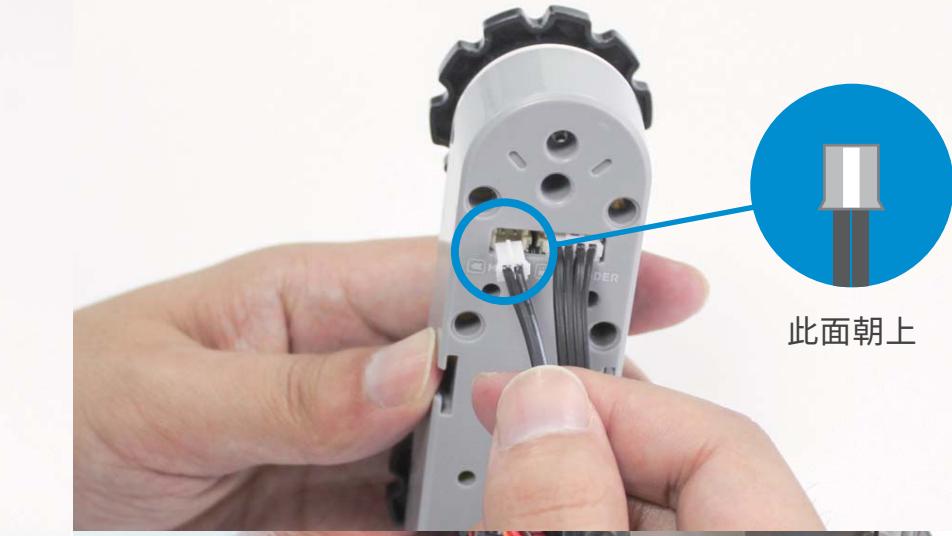
X2

= 2PIN ↕ 18CM

= 4PIN ↕ 18CM



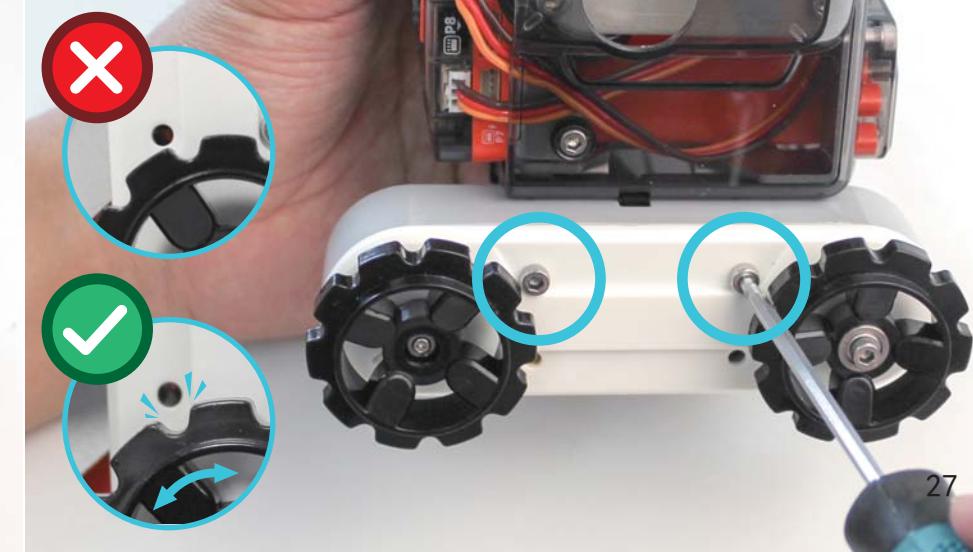
大头接口
此面朝上

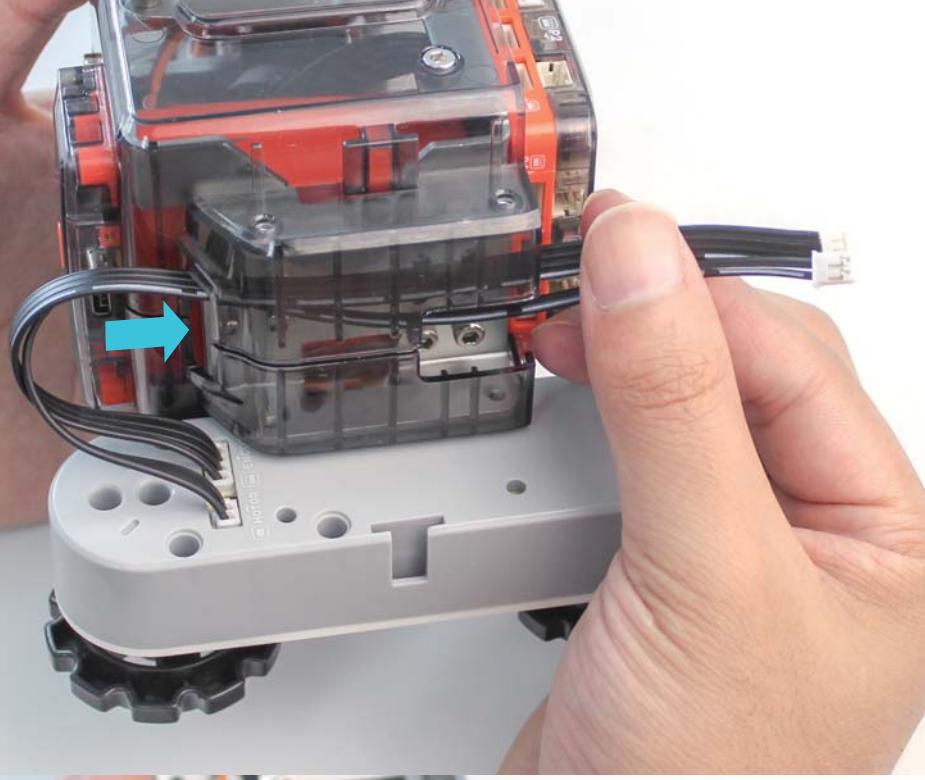


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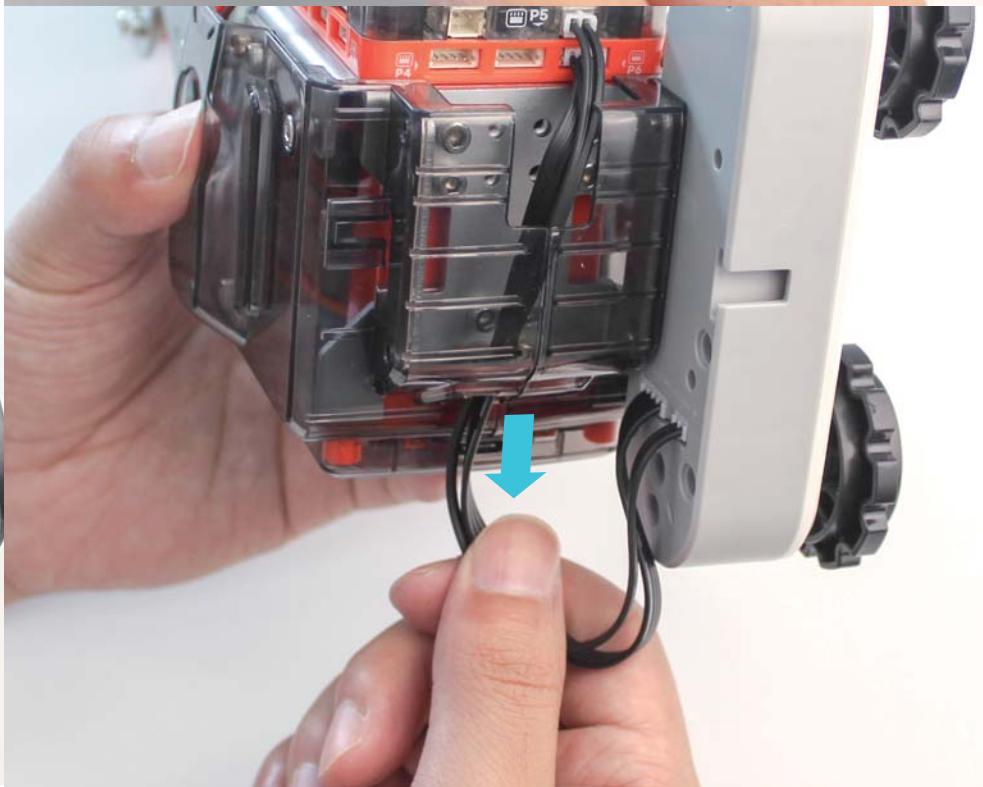
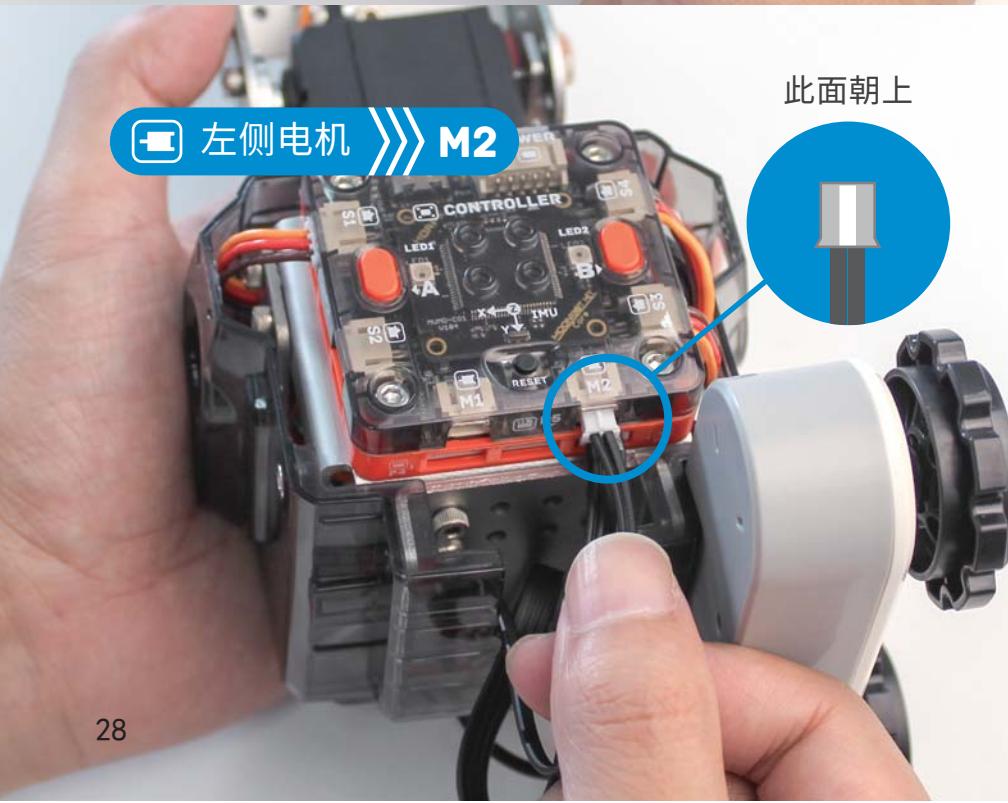
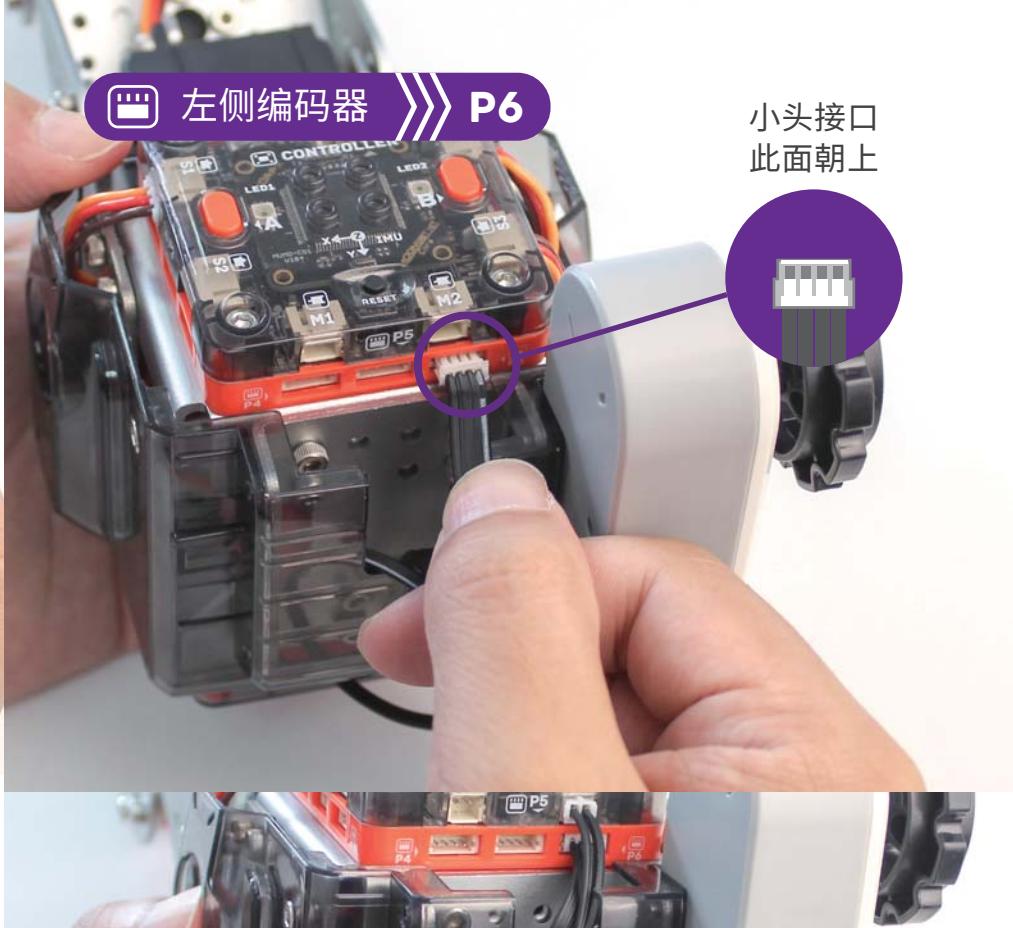
注意：电机接线在后段



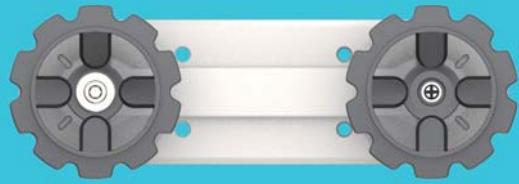


左侧编码器 »» P6

小头接口
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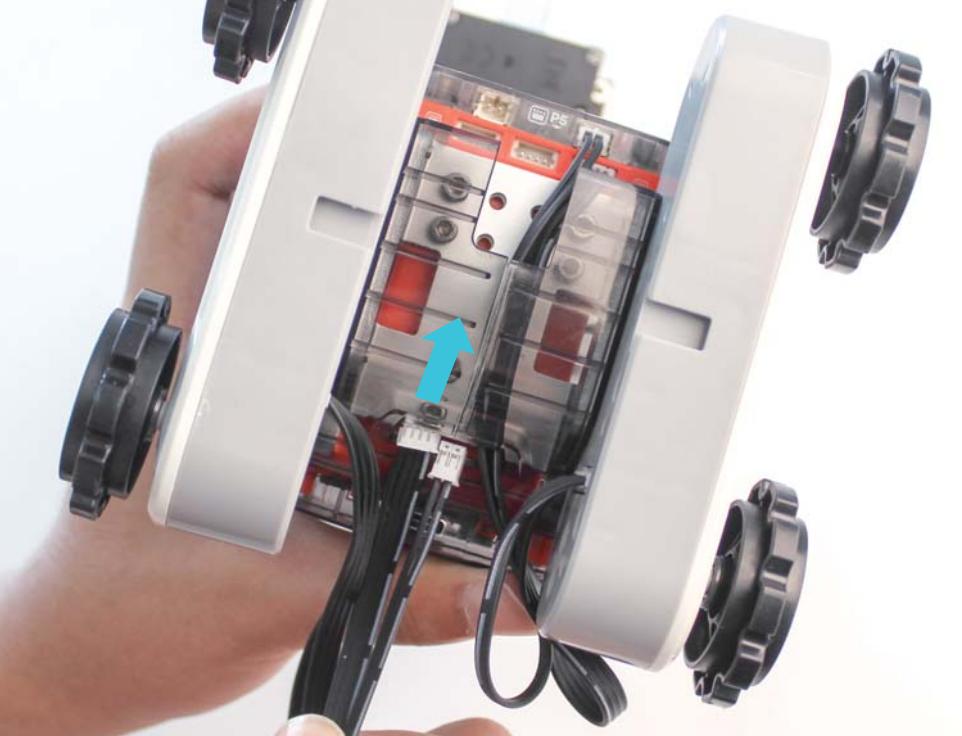


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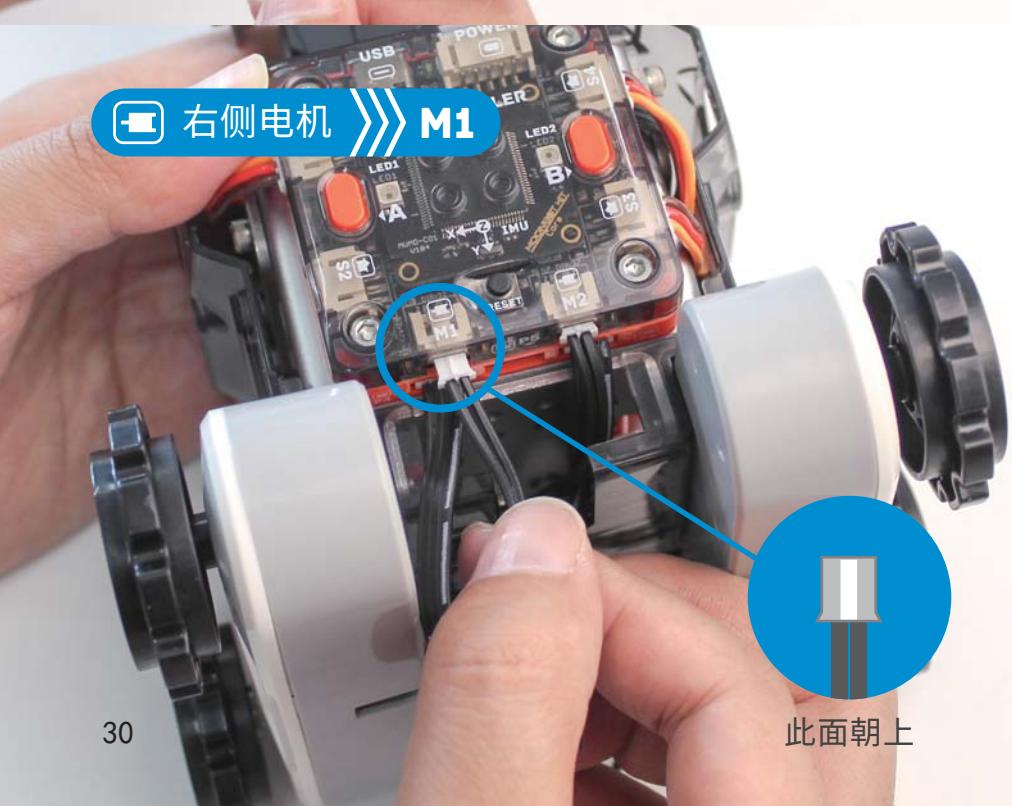
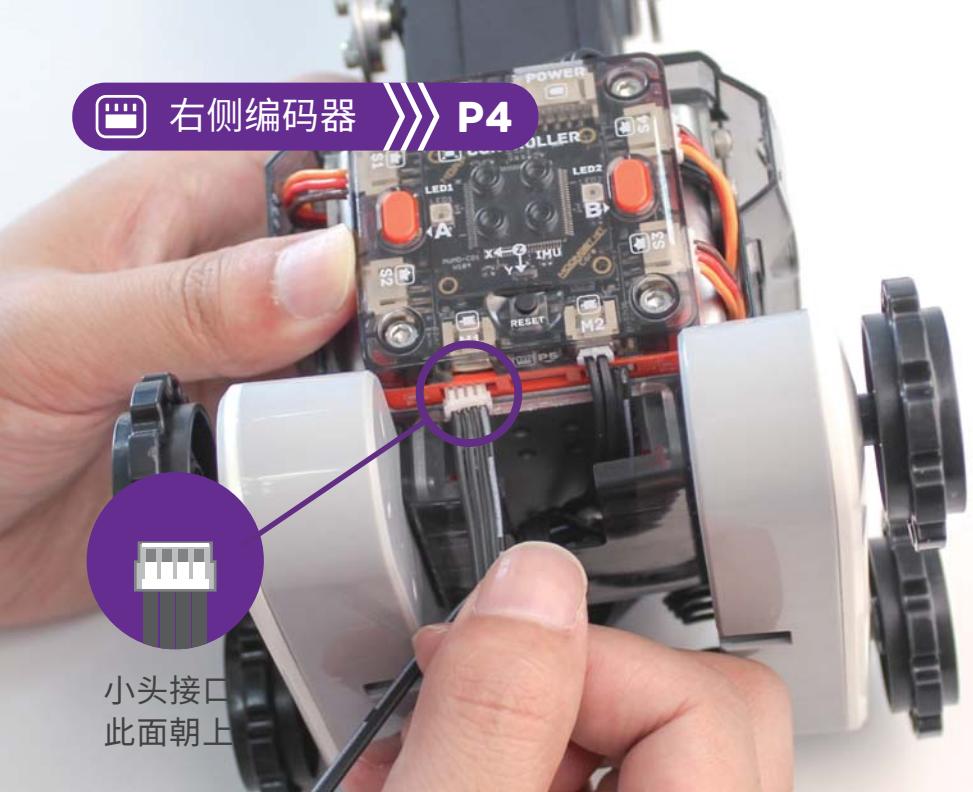


X2





右侧编码器 ➞ P4



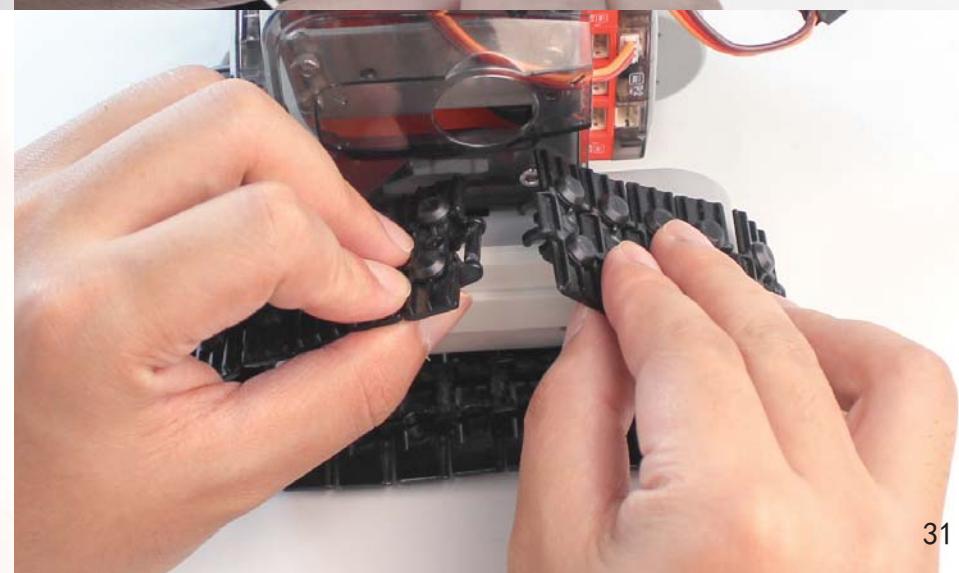
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X23



X46



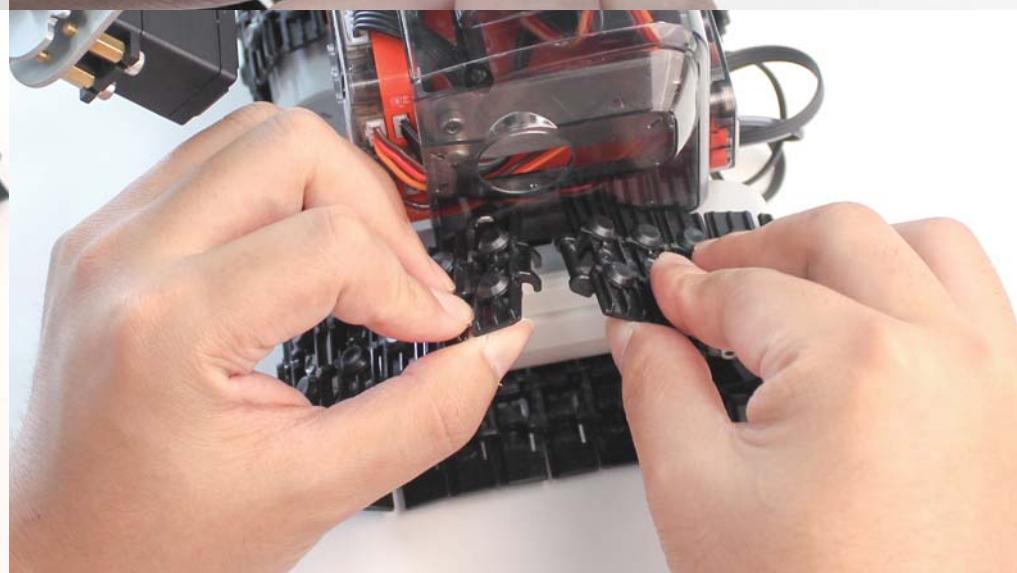
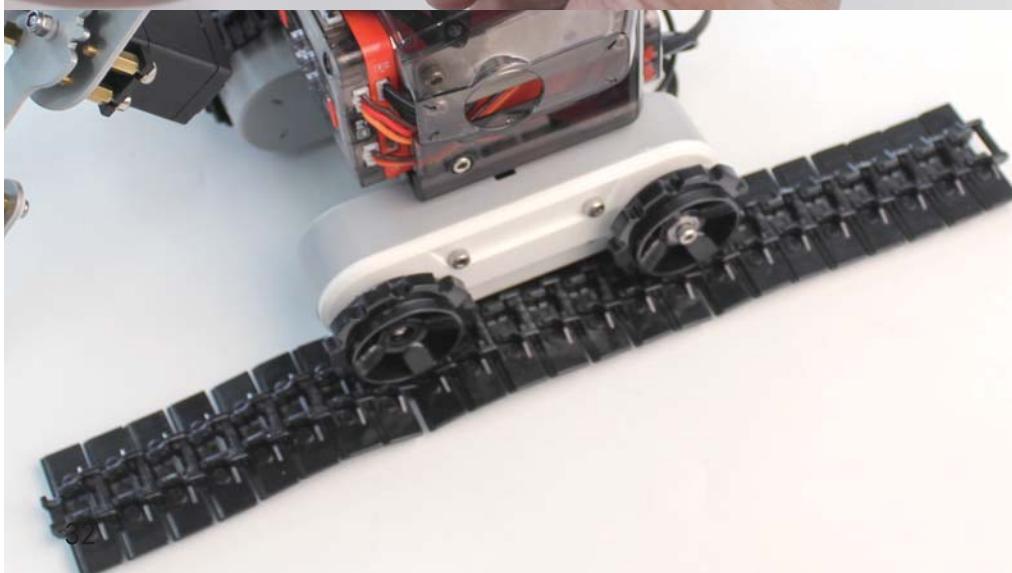
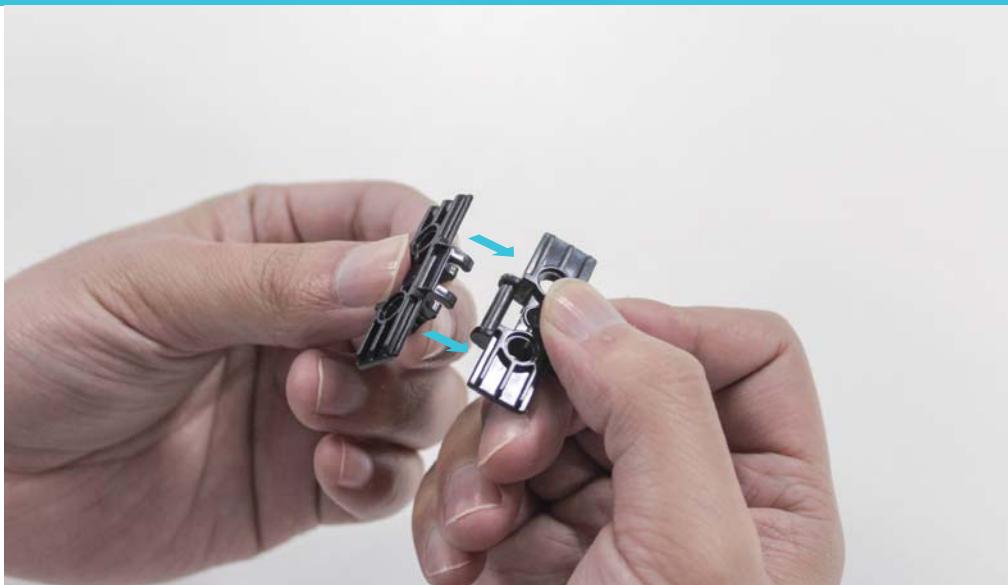
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X23



X46



26

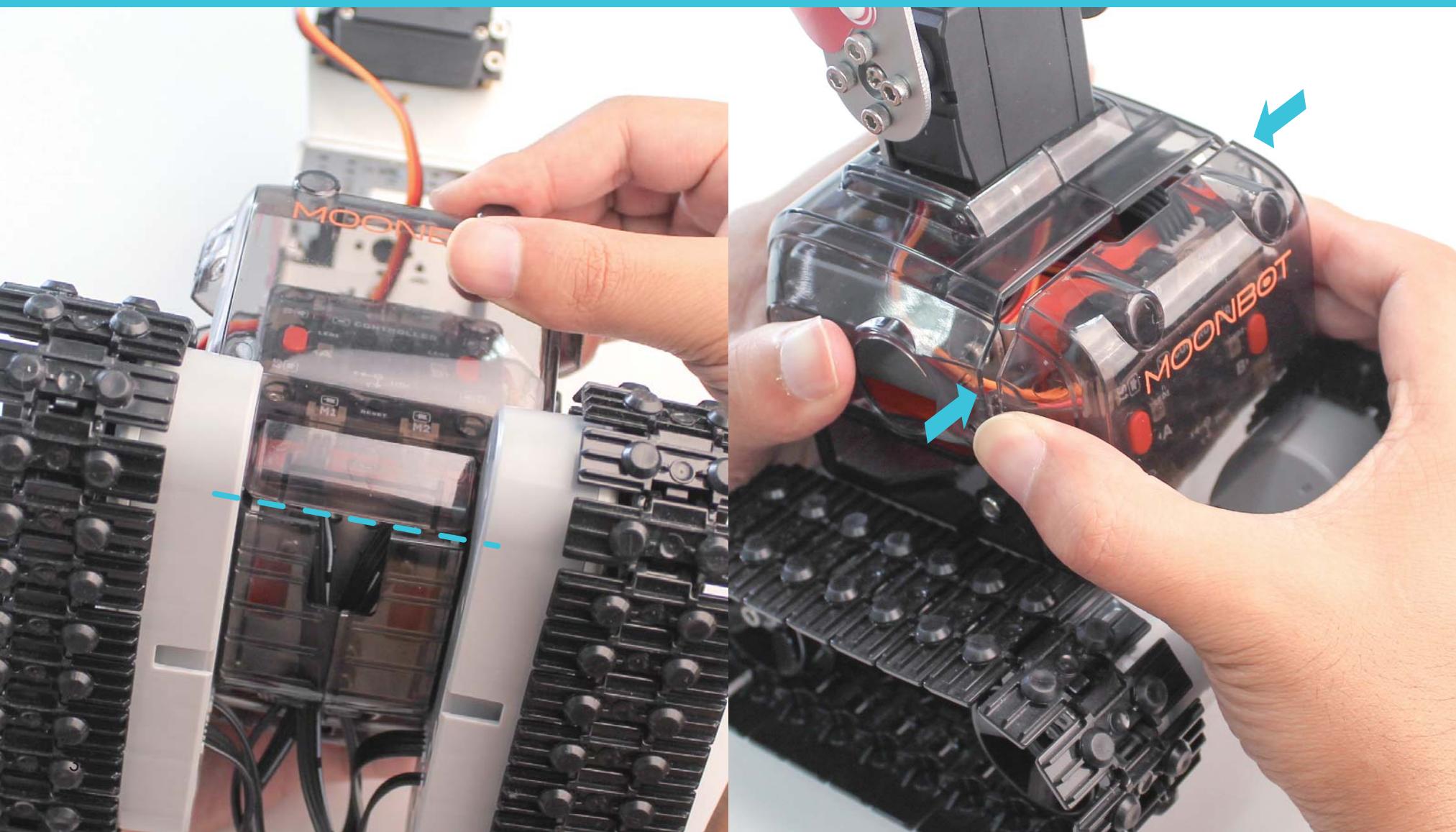
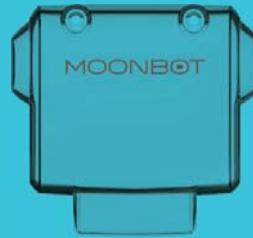


X4

注意:请安装此保护装饰片,可以避免夹手风险

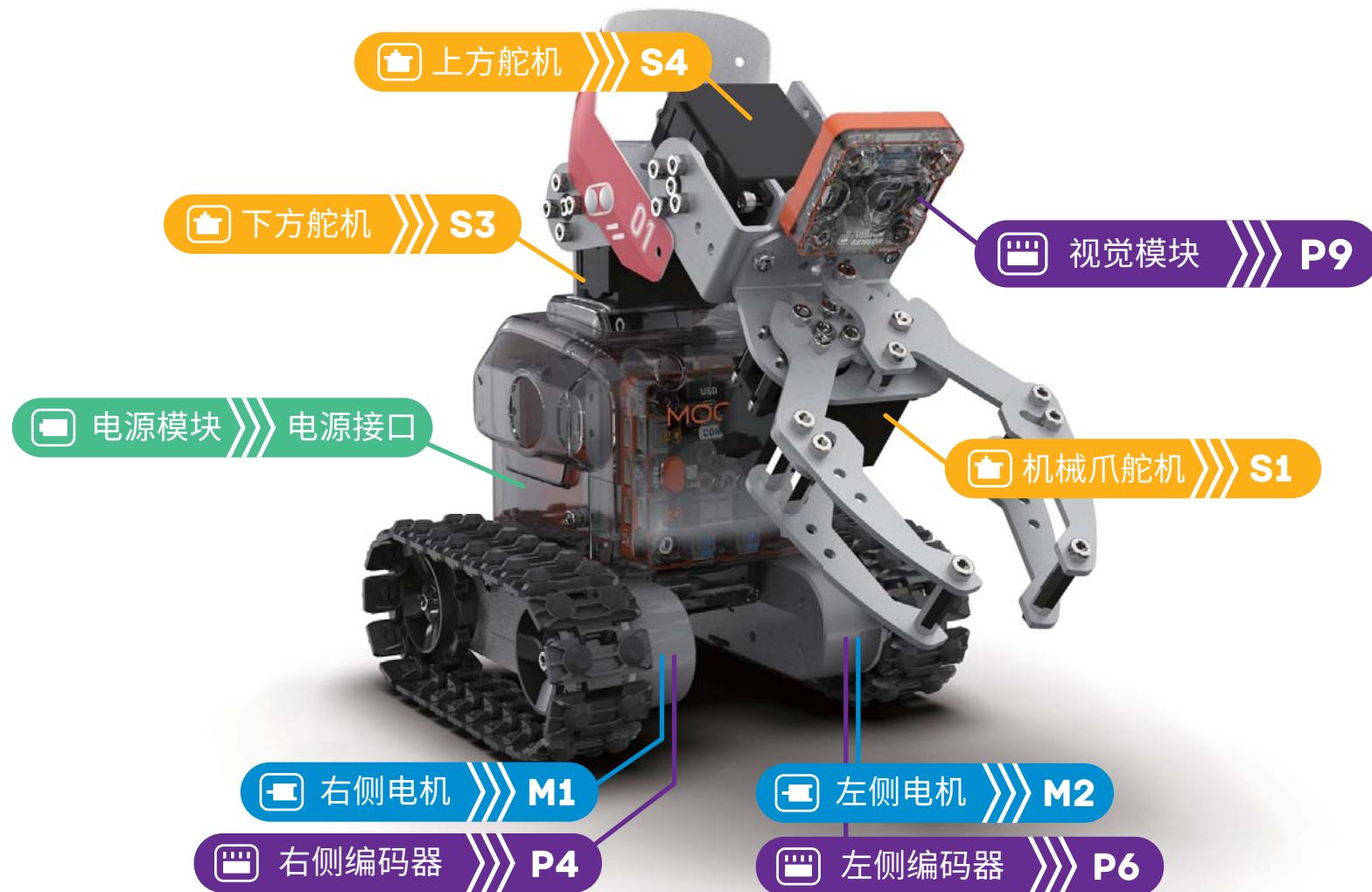


29



检查接线

请重新检查各模块接线是否正确，插头是否插紧，这样MoonMech机器臂才能正常工作



快速畅玩

① 短按电源按键



② 按下主控上按键A，此时两颗灯亮起蓝光



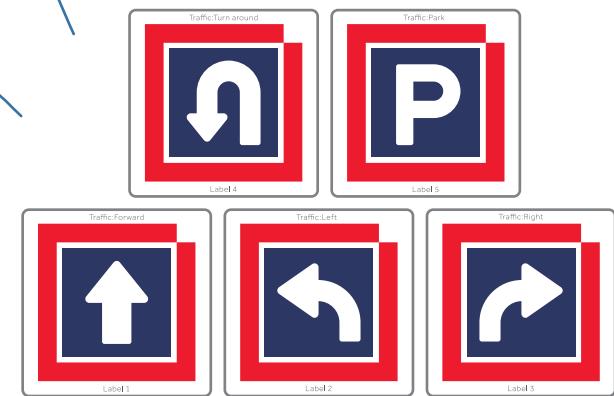
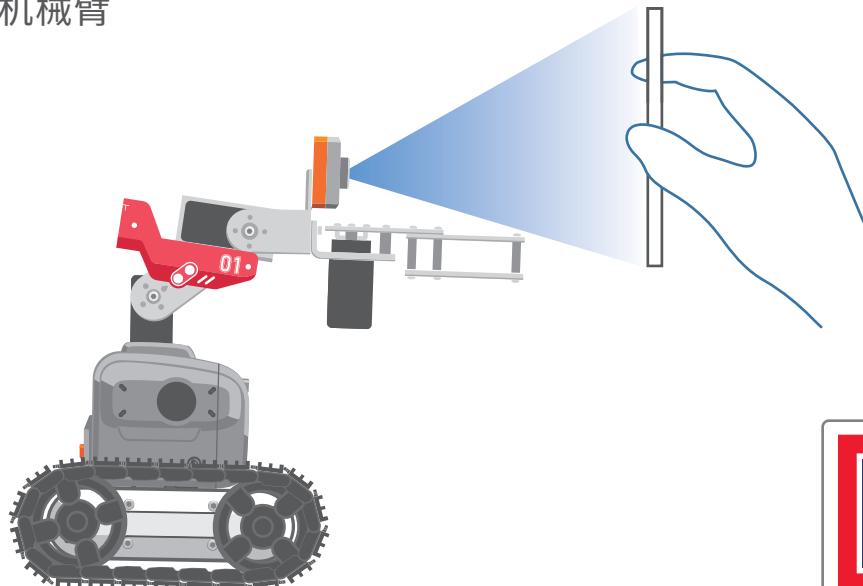
③ 使用以下视觉卡片在小车正前方，以此来控制
MoonMech机械臂



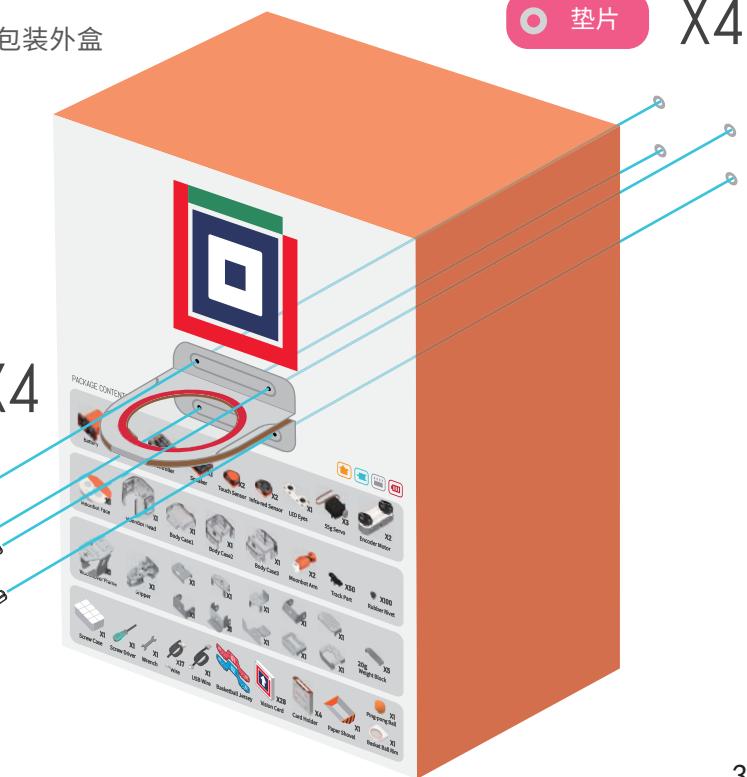
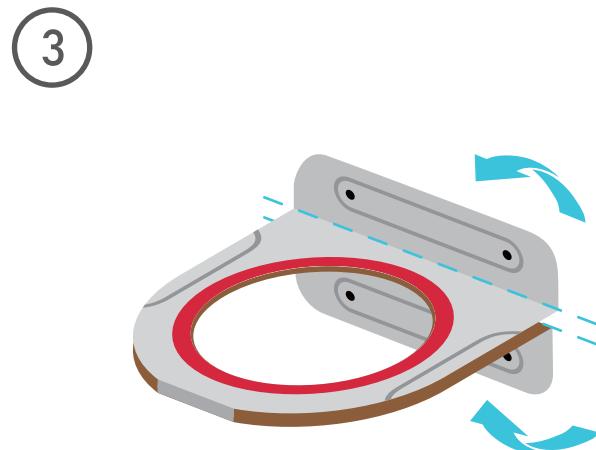
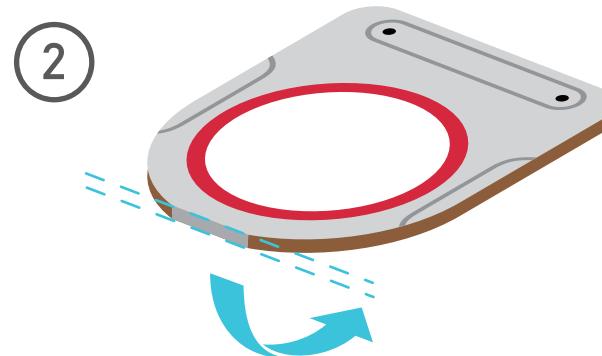
蓝灯闪烁——识别到目标



红灯闪烁——未识别到目标



搭建篮板



机械臂遥控投篮

① 短按电源按键



② 打开APP选择进入控制器

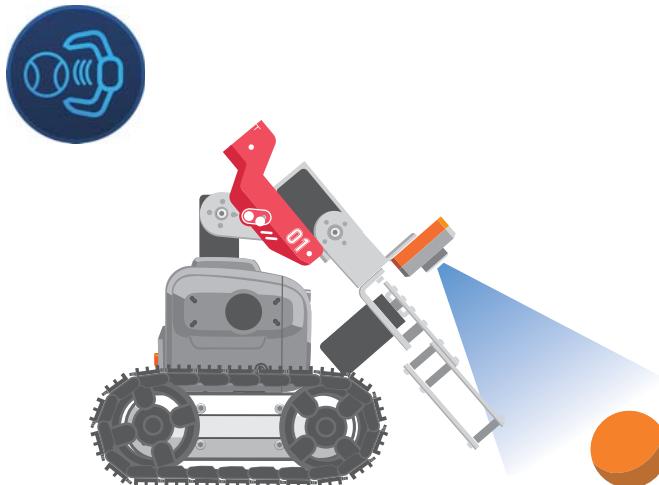


MoonBot

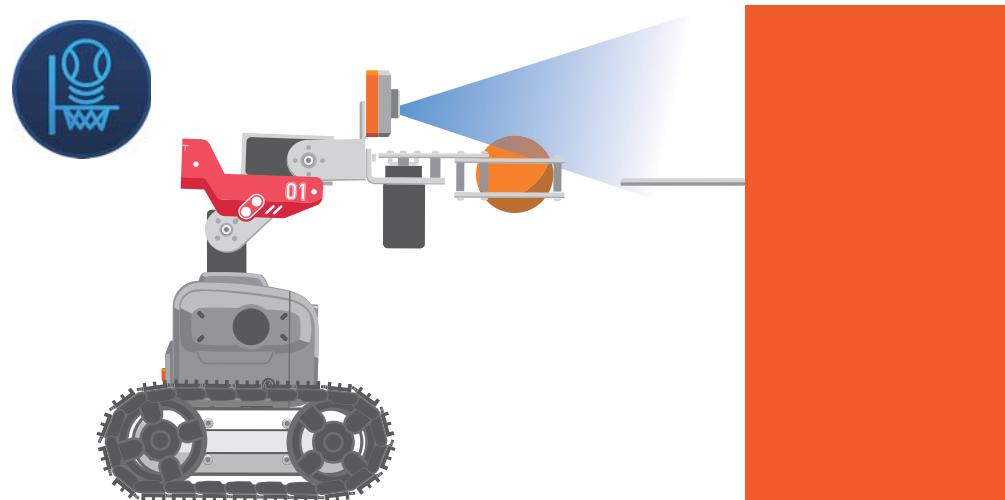
控制器

MoonMech

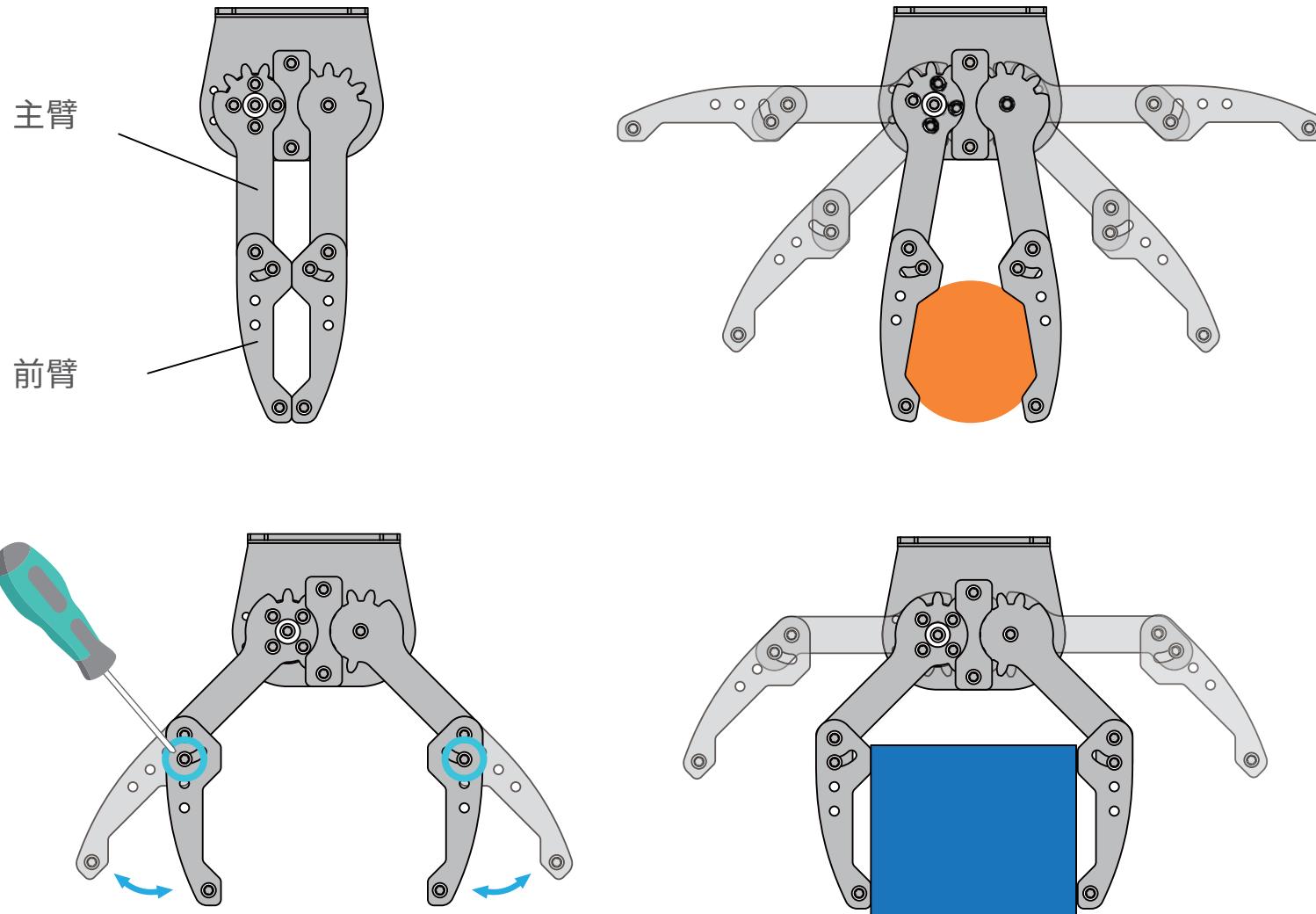
③ 将乒乓球放置在机械臂前方
10cm左右处的空地并抓球



④ 按下投篮控制机械臂



机械爪调节



将这两个螺丝和螺母分别拧松，可以调节前臂的角度来适应被夹的物体。

发现更多精彩

扫一扫进入支持文档 > MoonBot Kit 形态指南

