

MoonBot

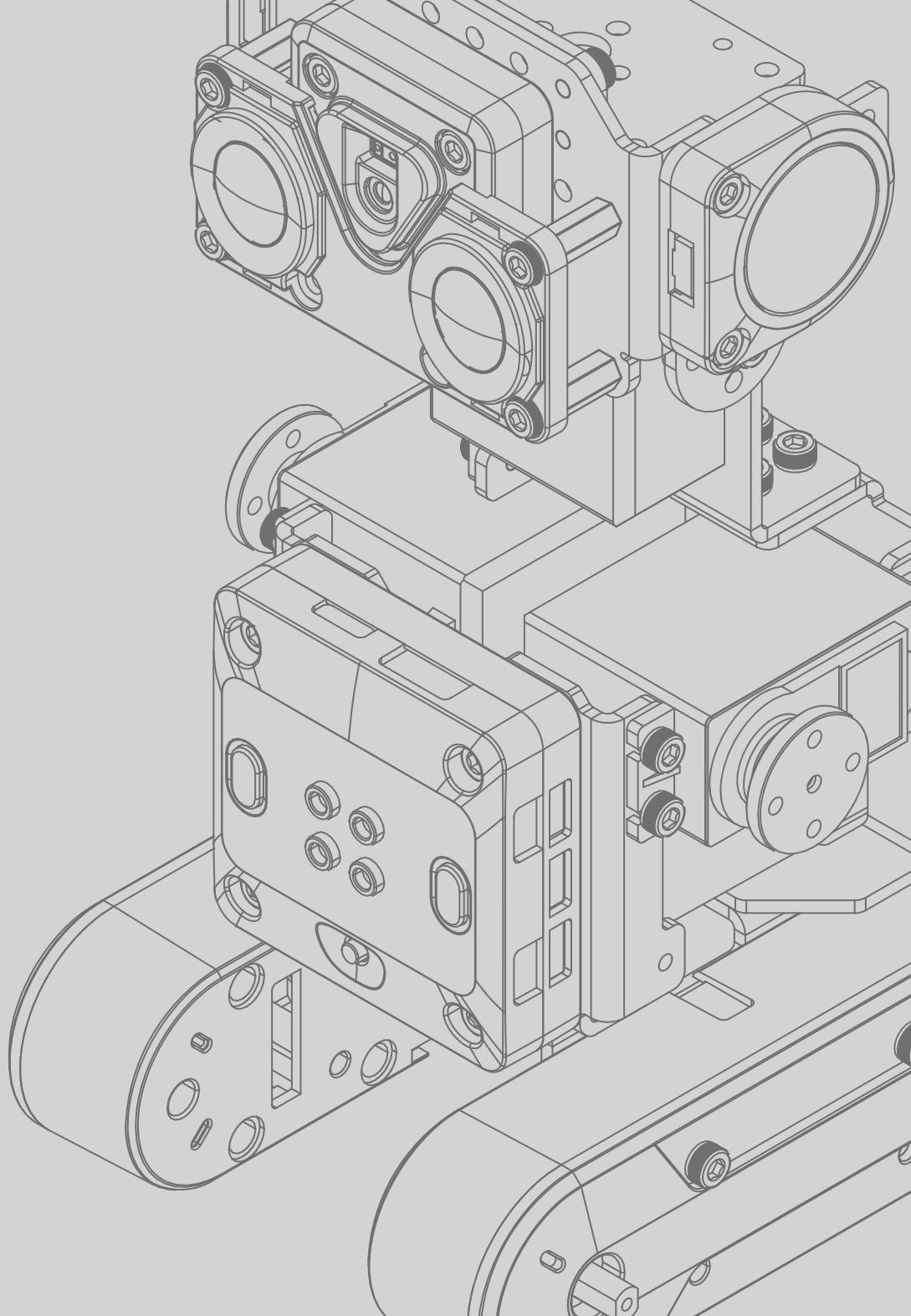
机器人搭建手册

248

零件数

2.5h

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;

*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

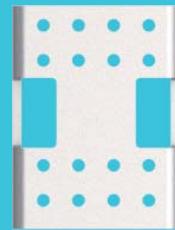
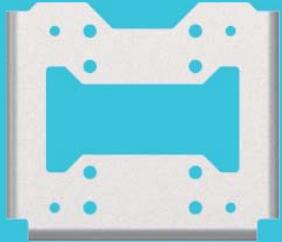


1:1

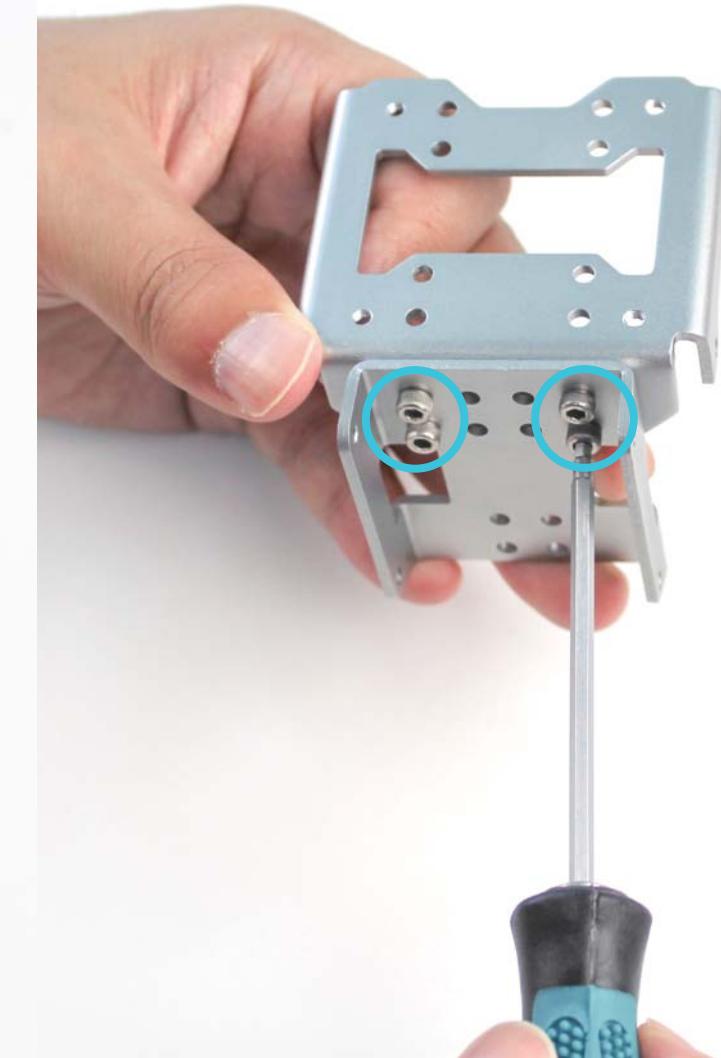
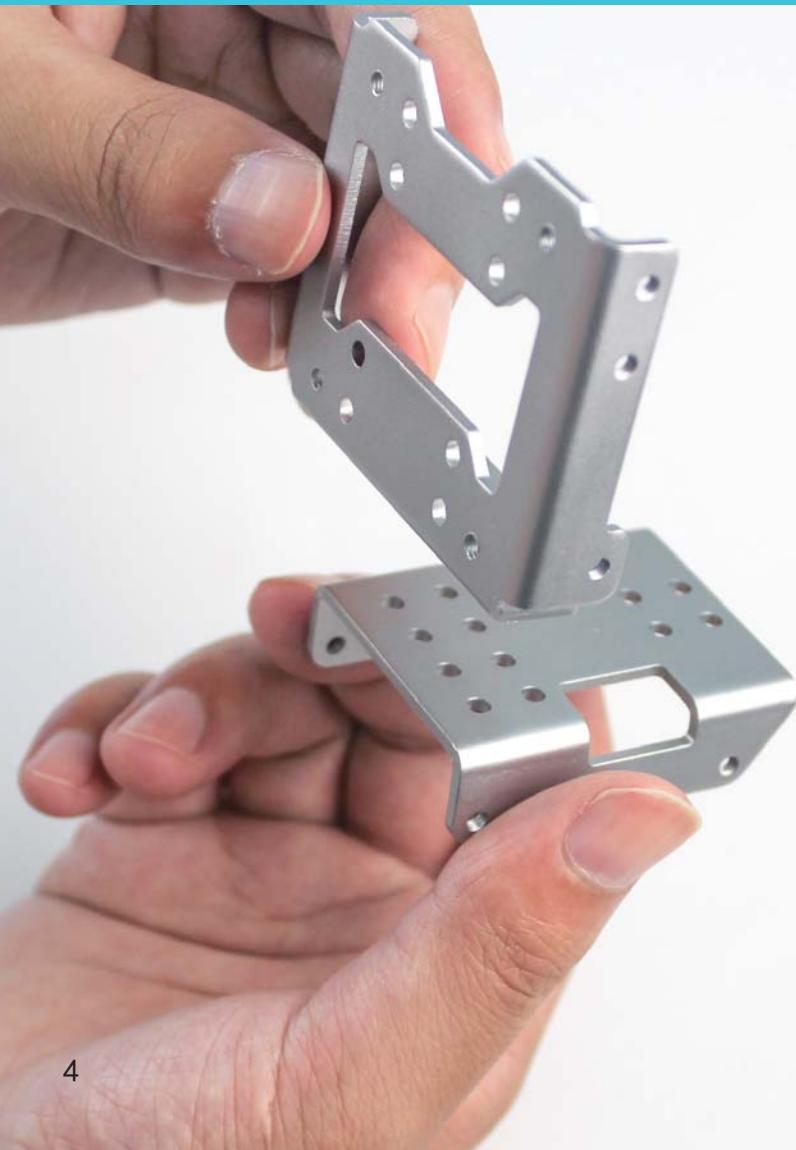


此图标和实物是1:1大小的,请对照图中的型号和长度

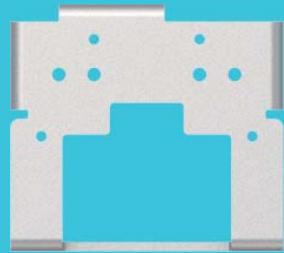
1



M3X4

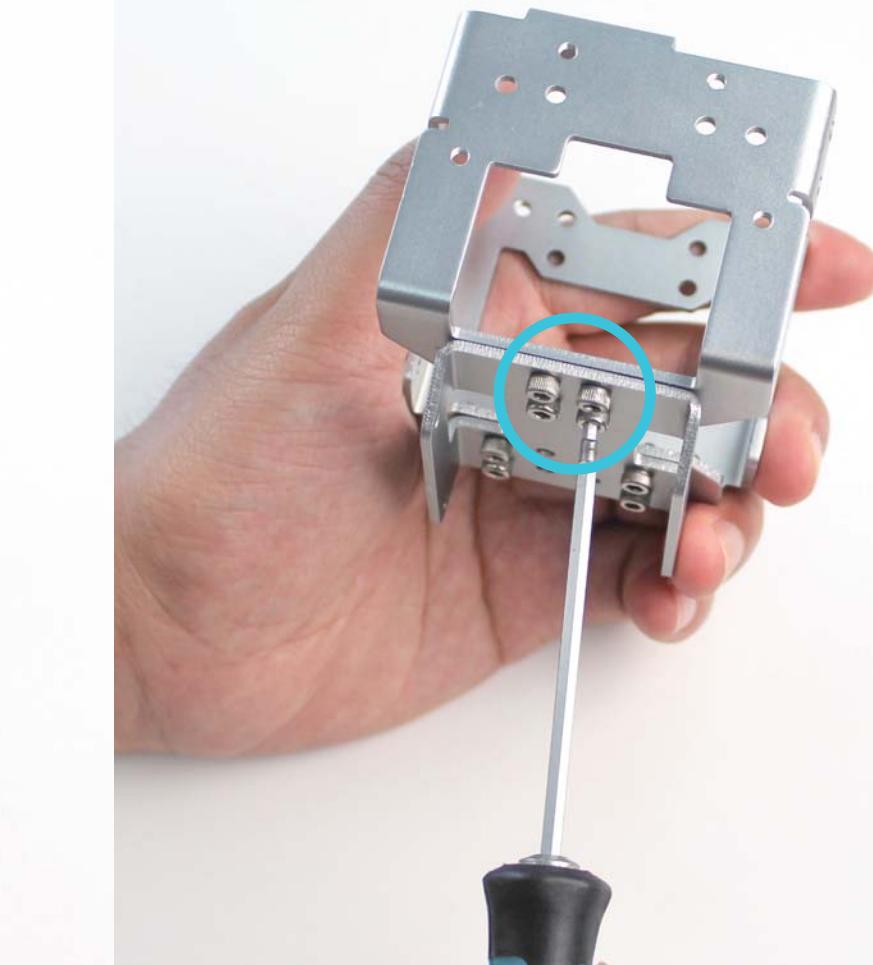
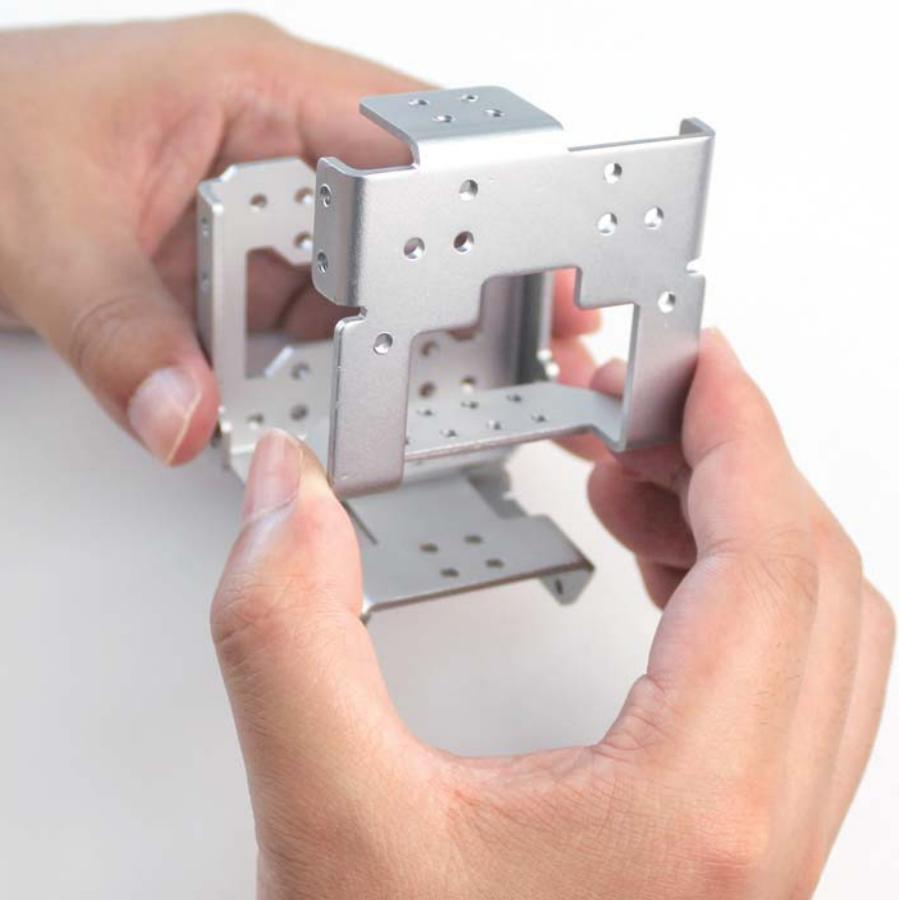


2



M3X4

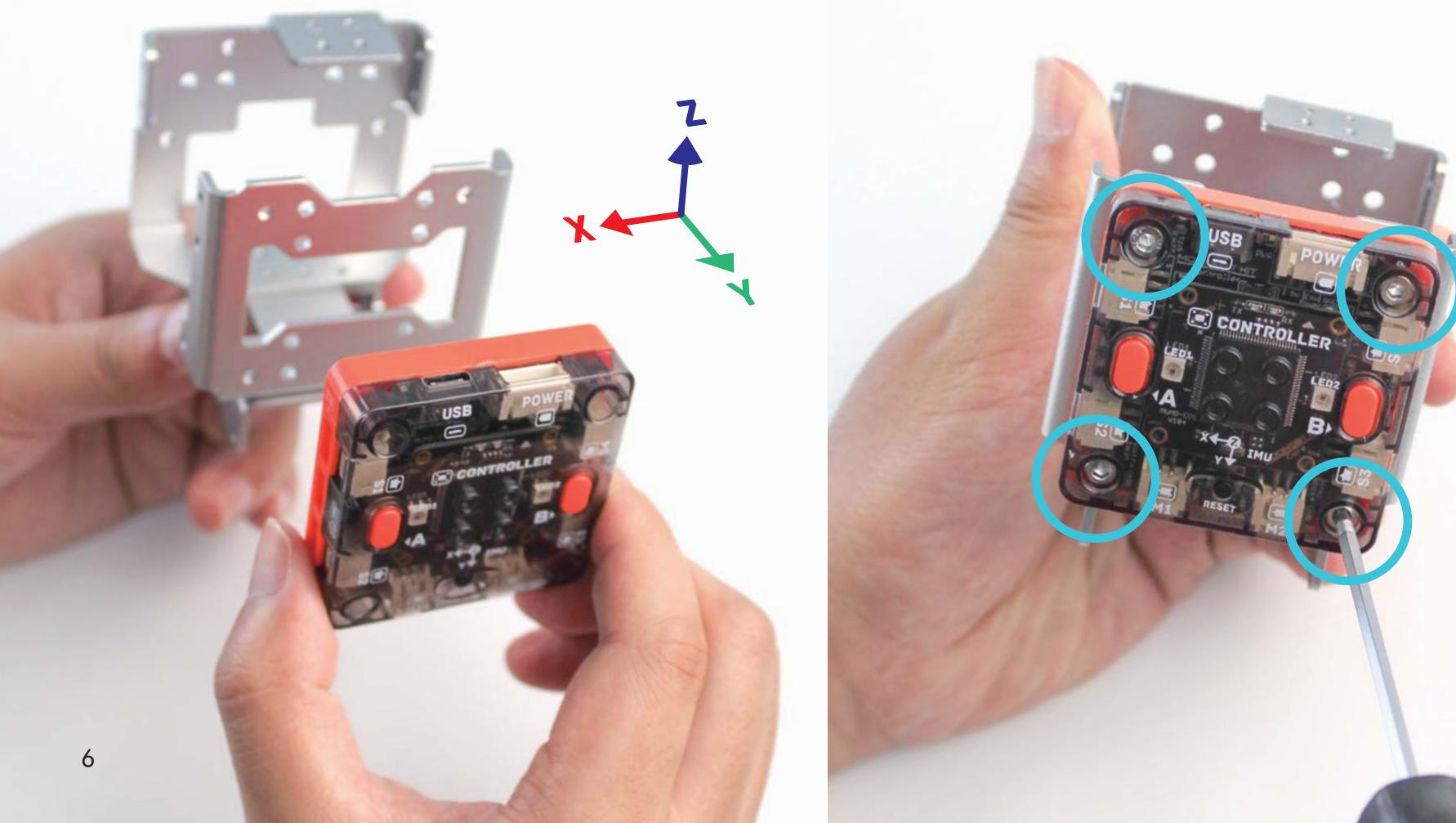
X4



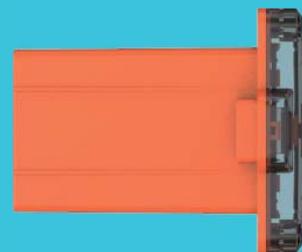
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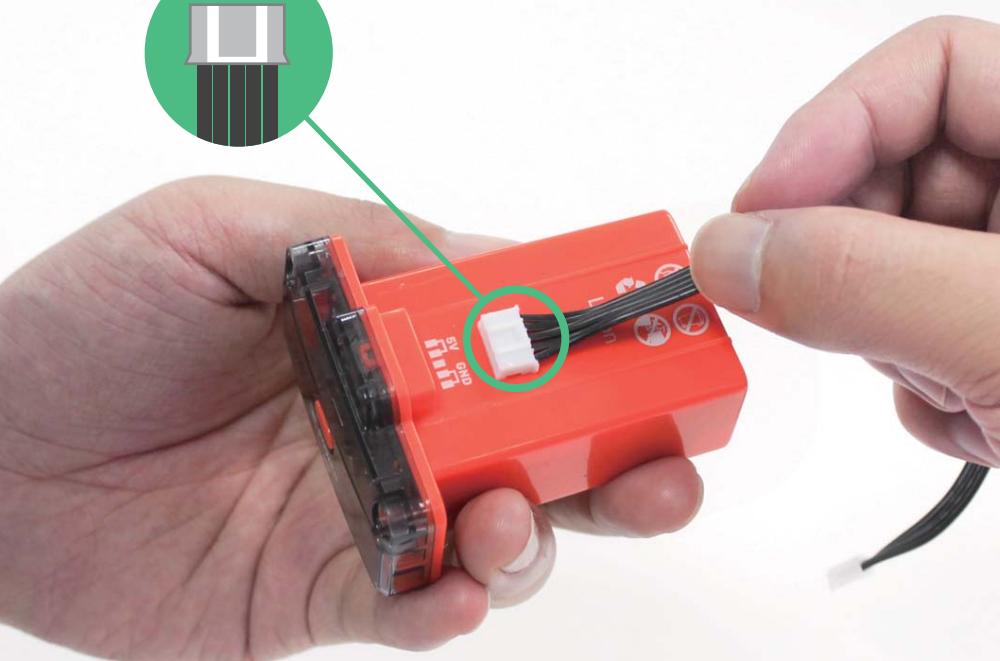
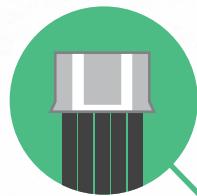
X4

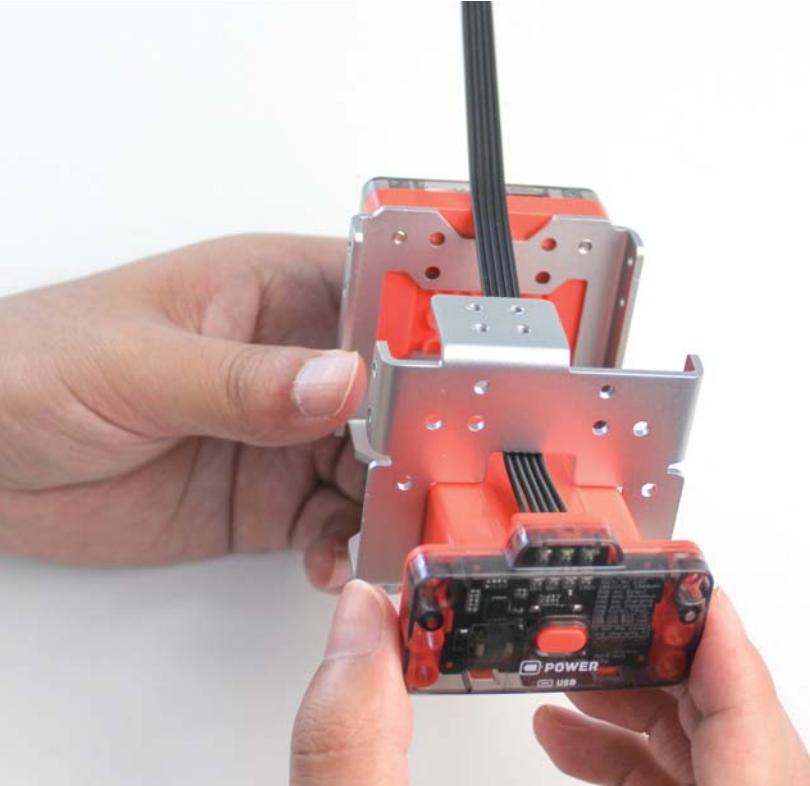


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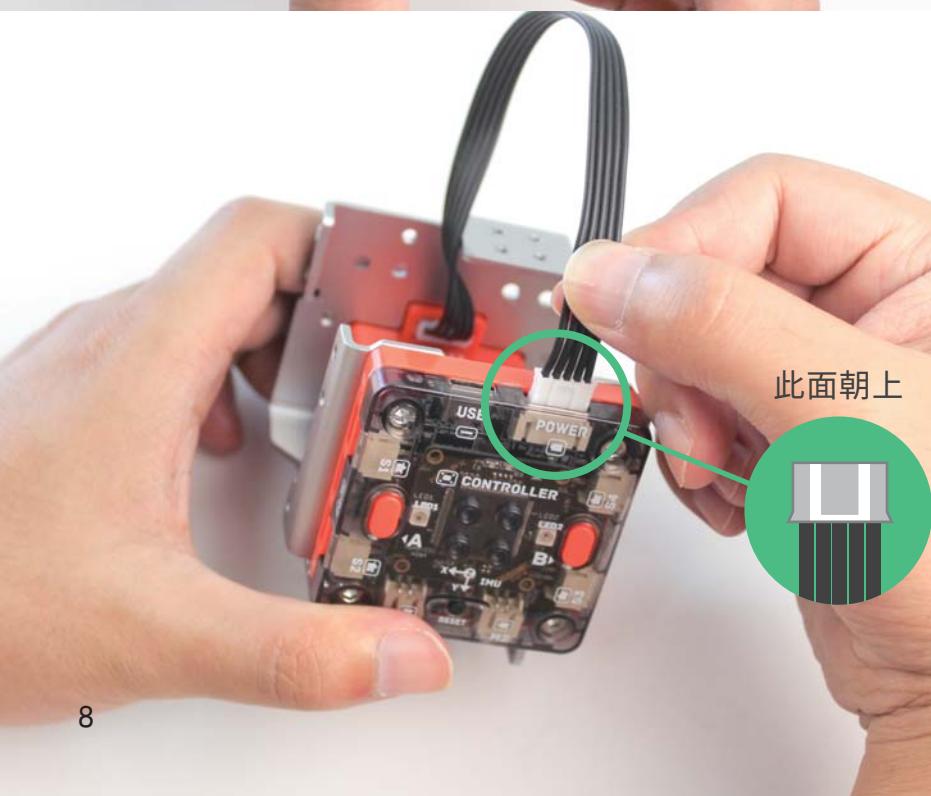


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将电线如图塞进缝隙中固定

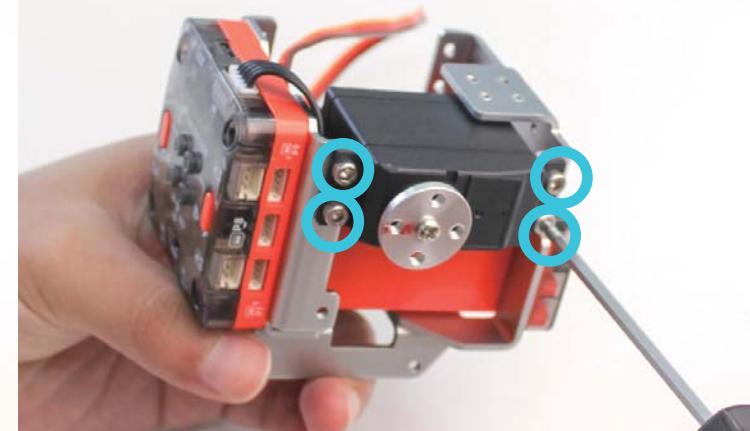
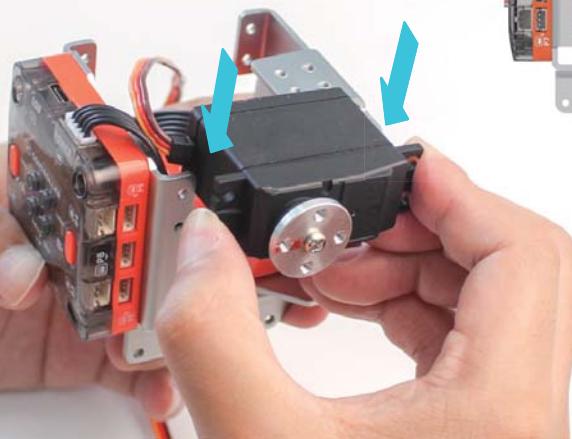
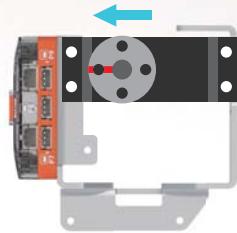


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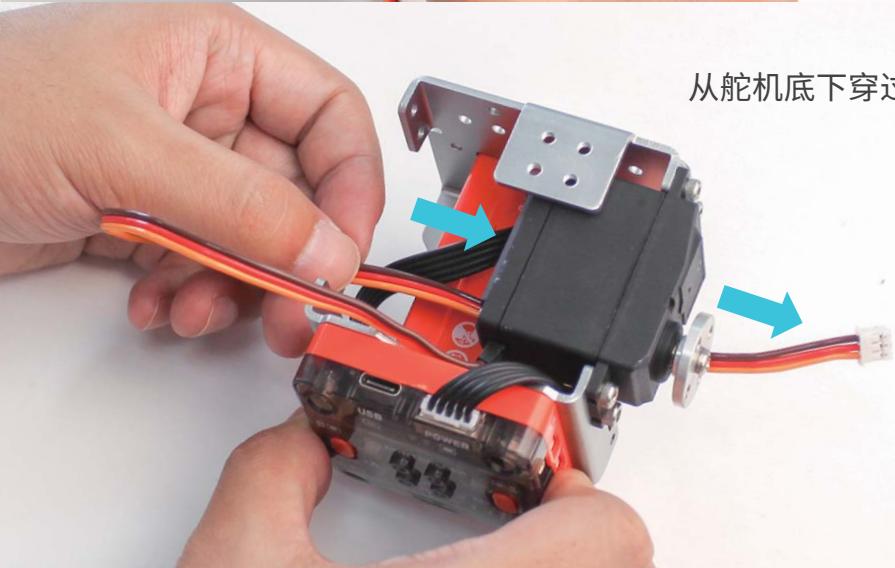


M3X4
X4

请保持舵机盘靠近主控一侧



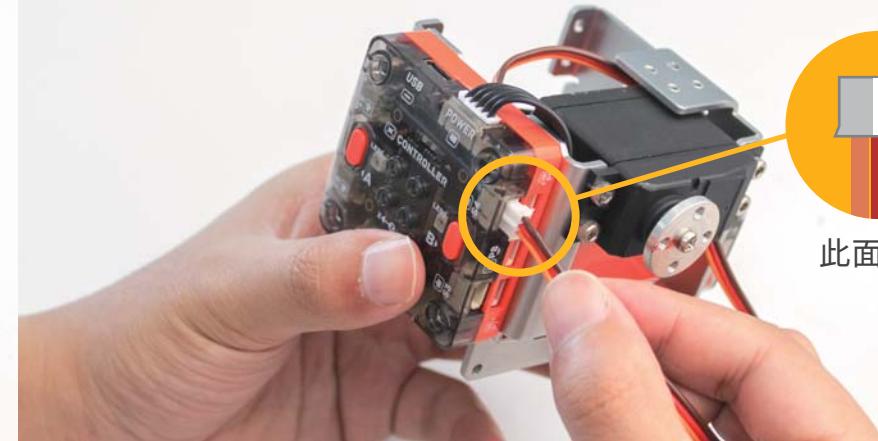
从舵机底下穿过



左臂舵机 ➞ S4



此面朝上

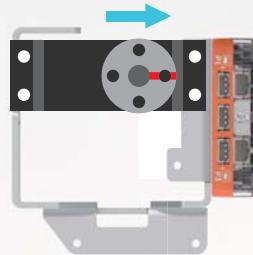


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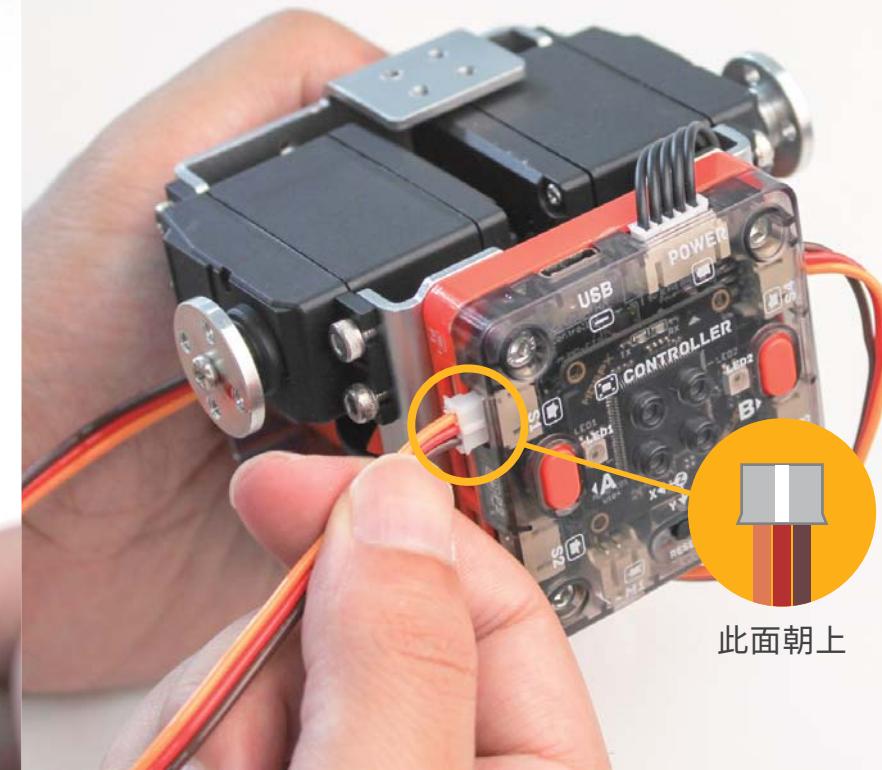
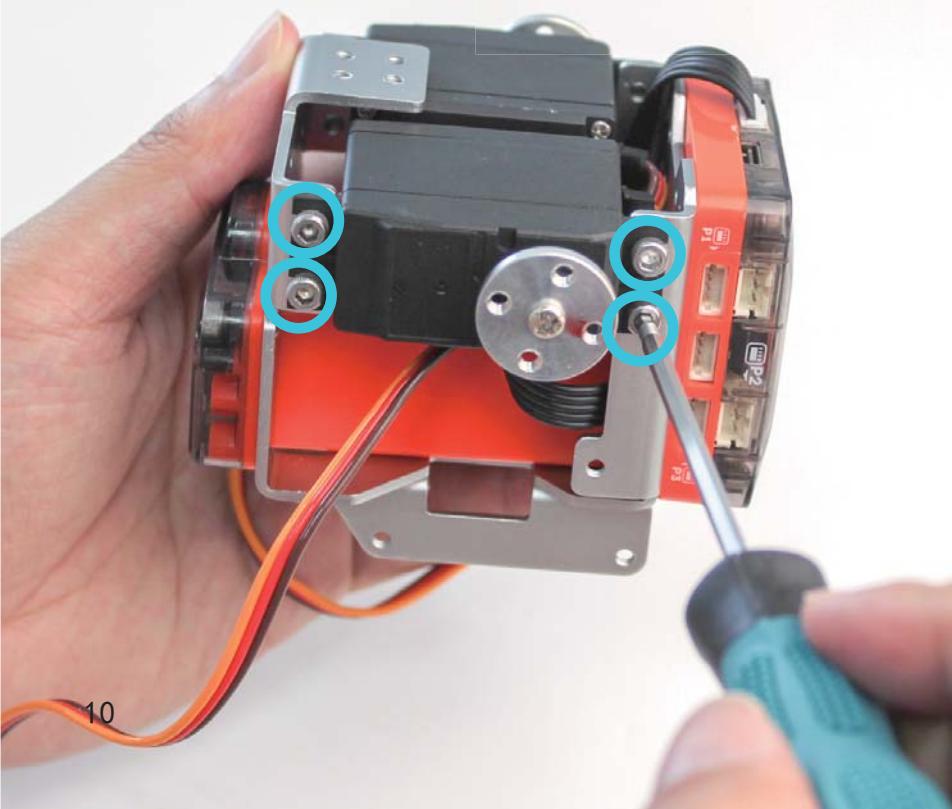


M3X4
X4

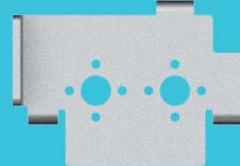
X4



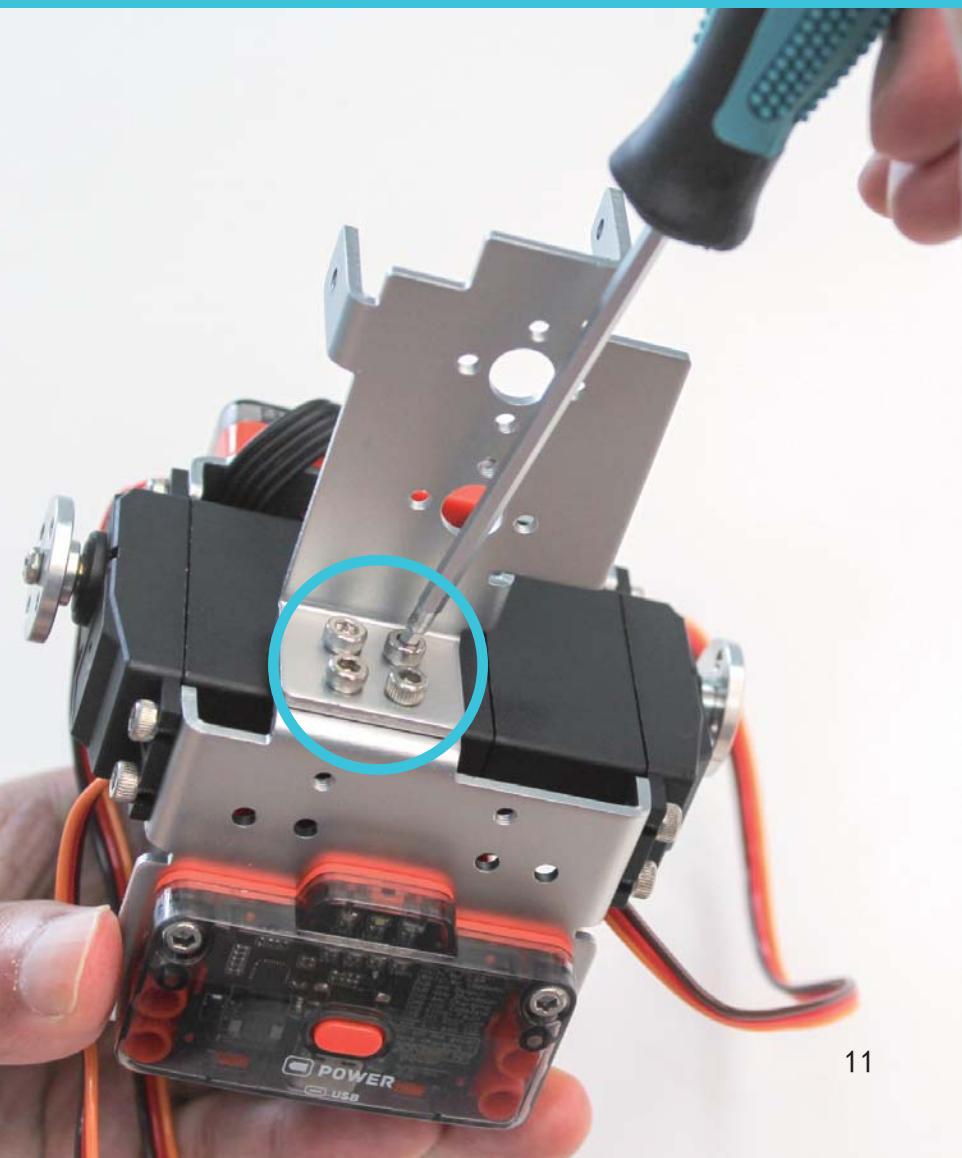
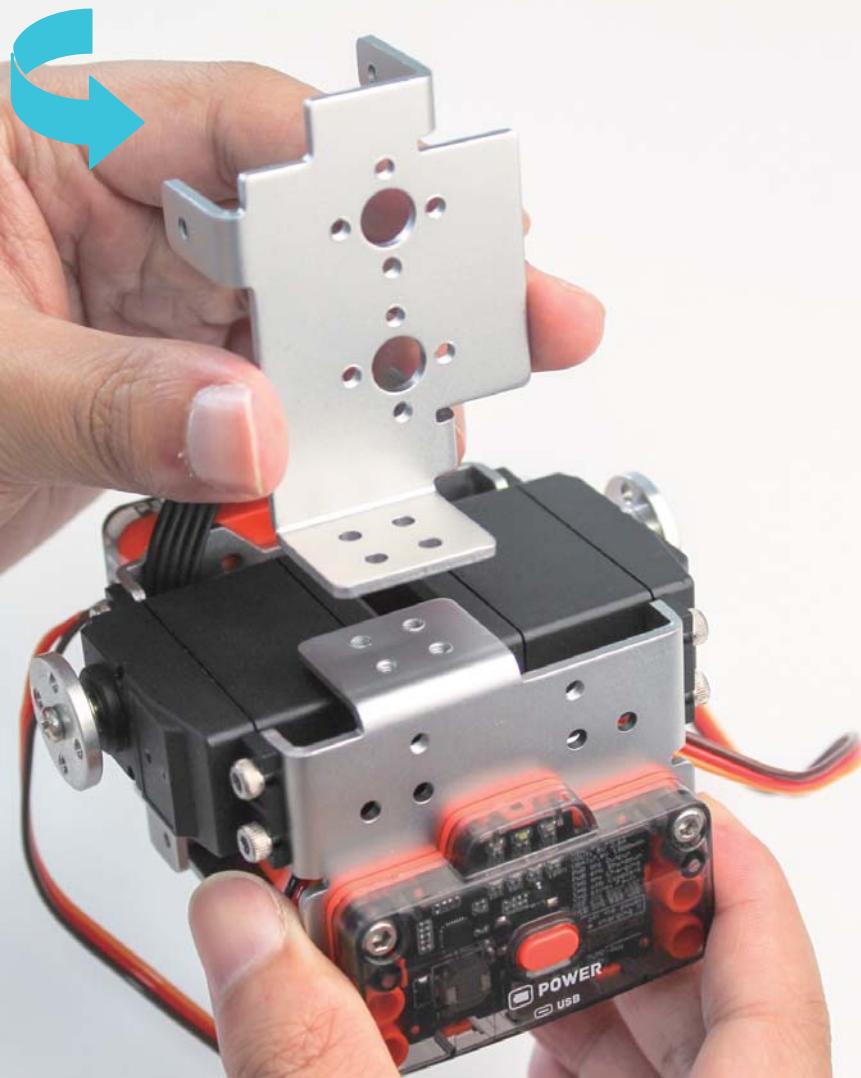
右臂舵机 ➞ S1



7



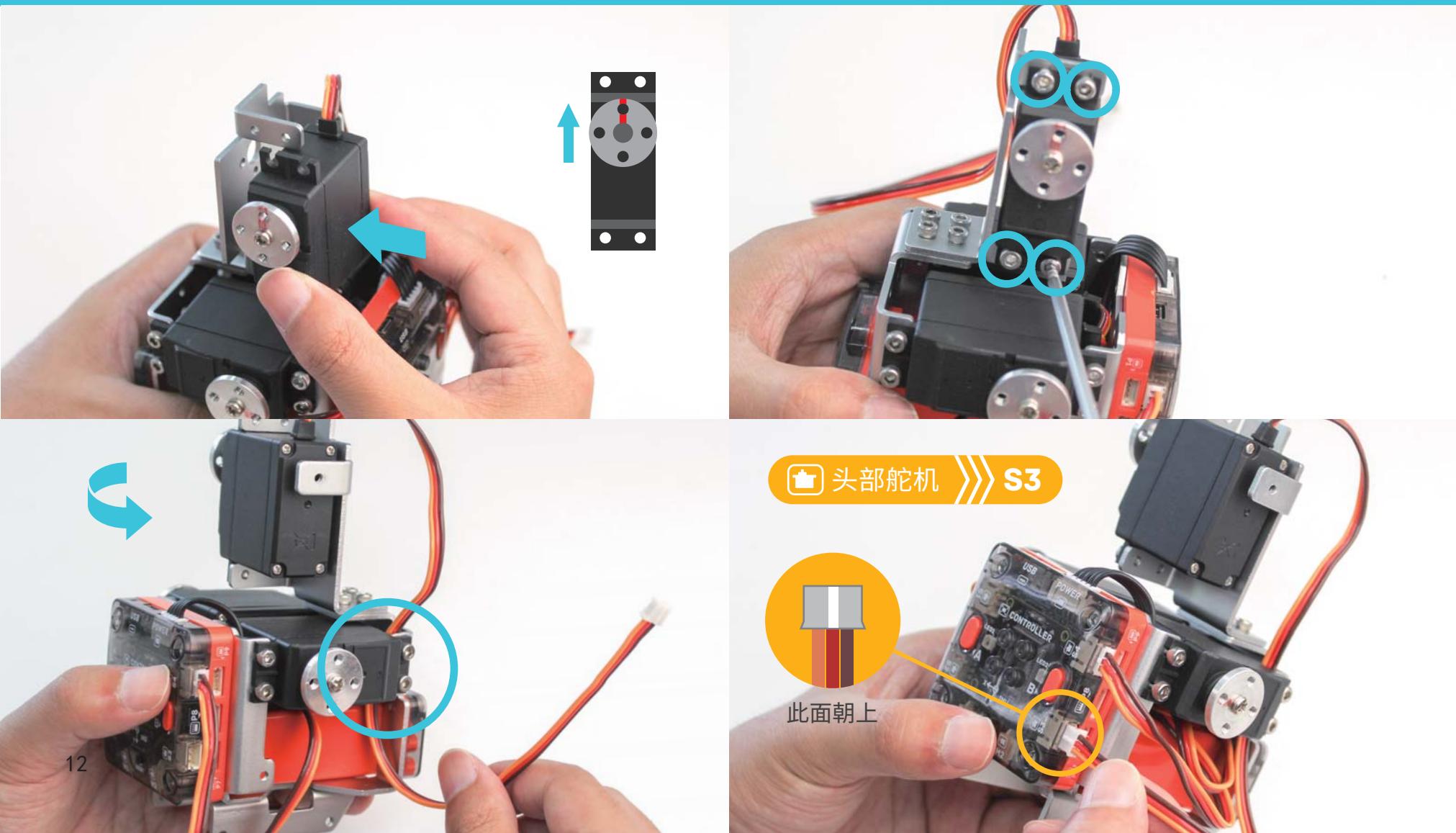
X4



8



X4



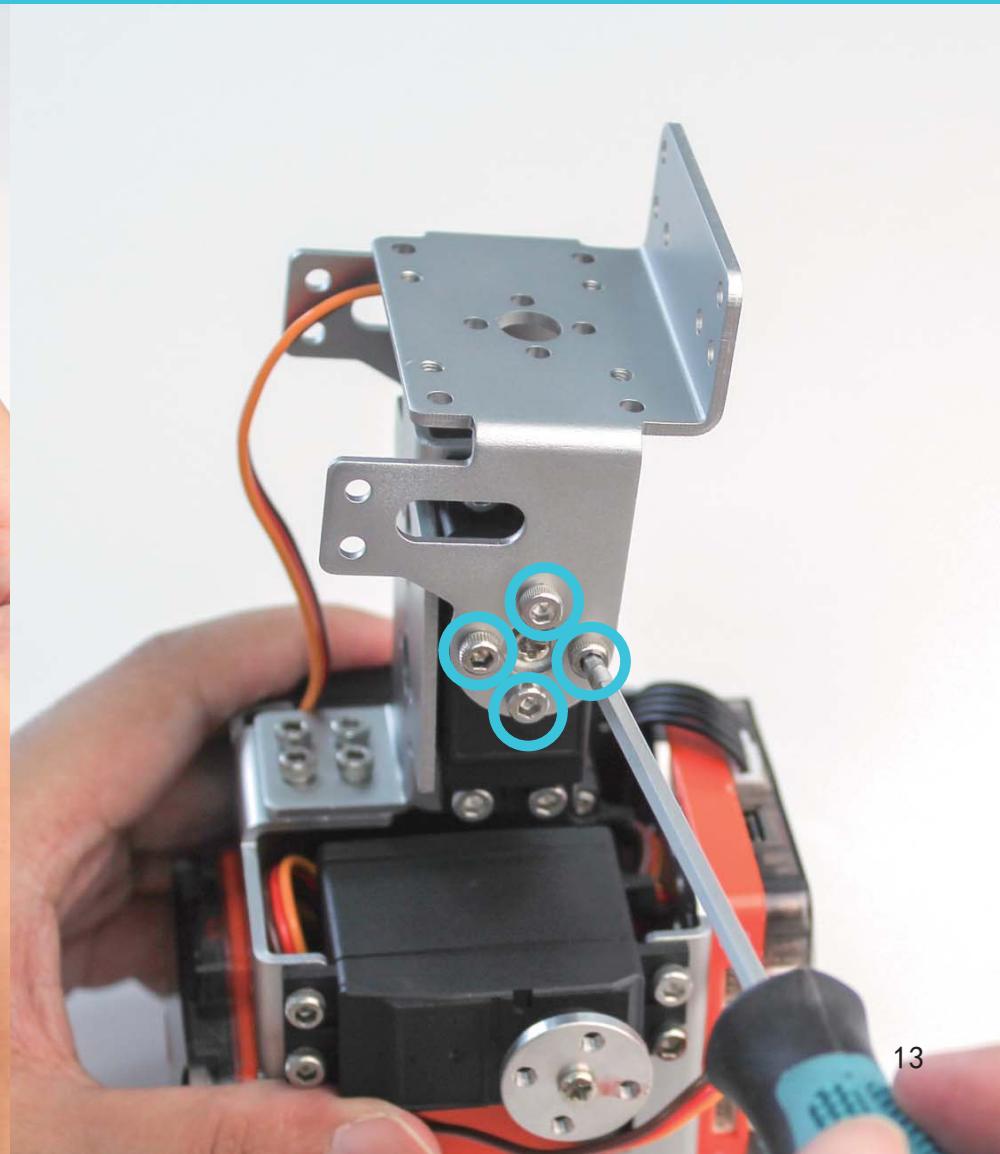
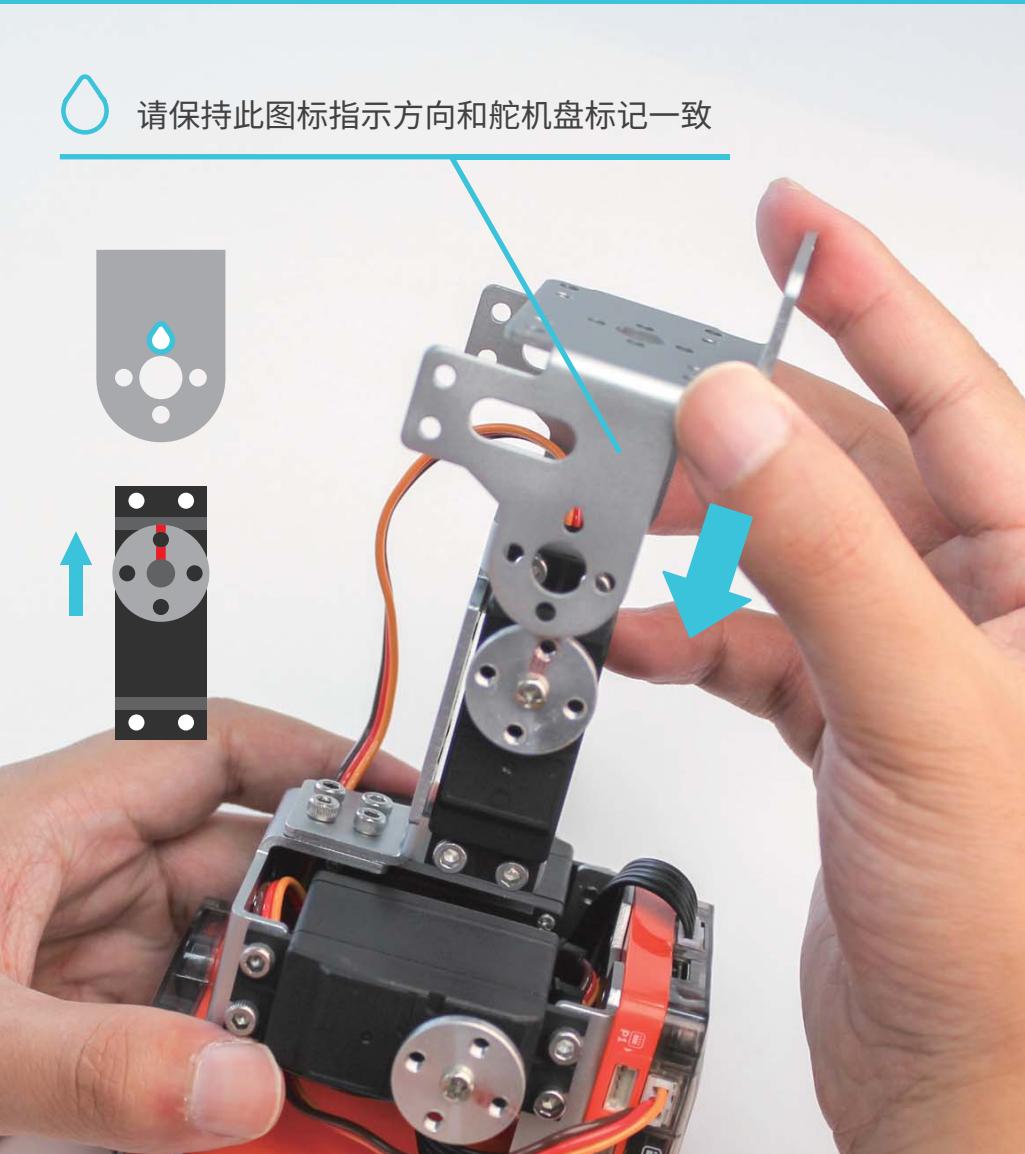
9



M3X4
X4



请保持此图标指示方向和舵机盘标记一致



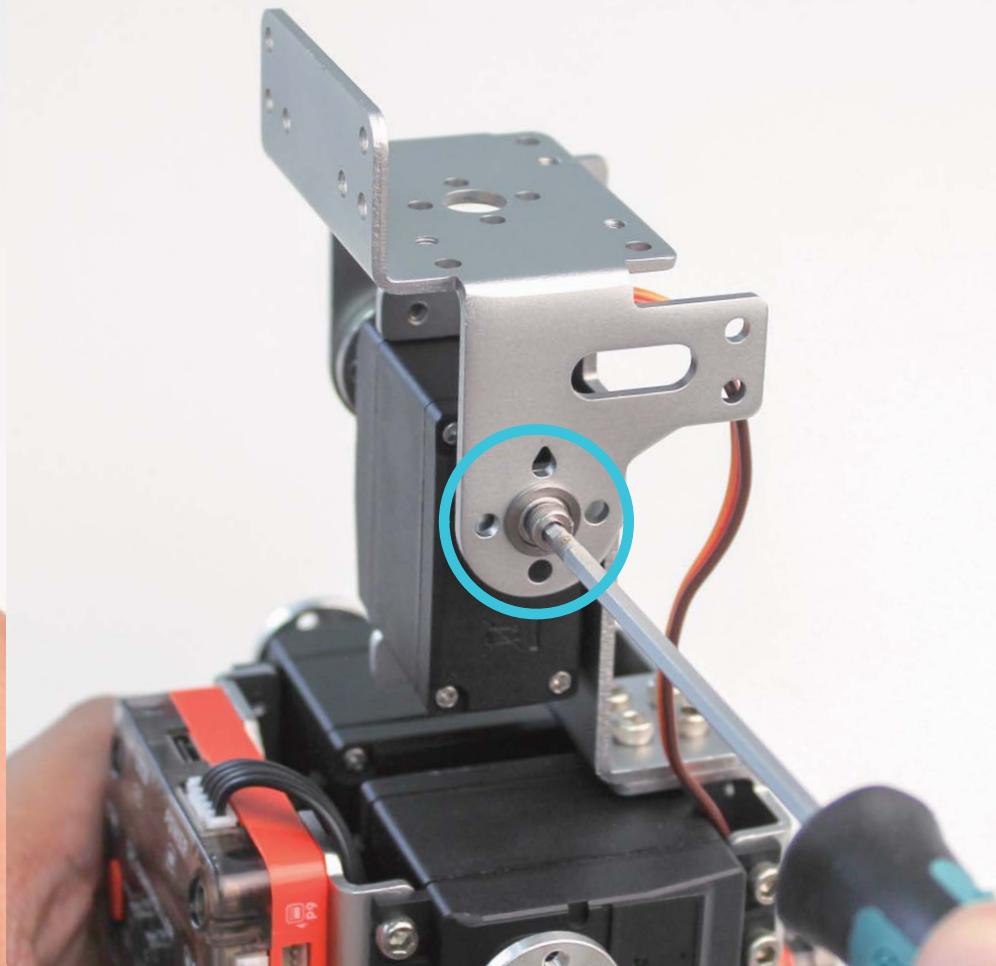
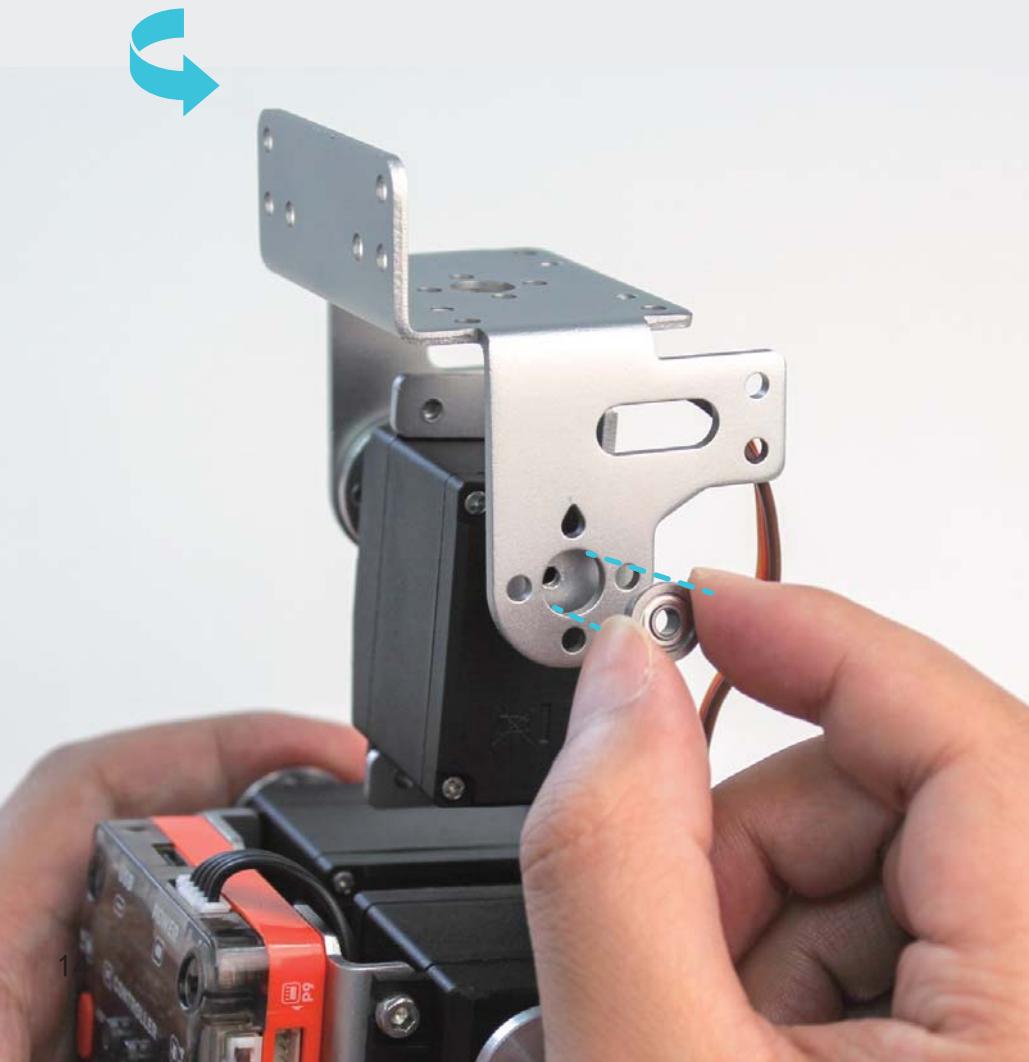
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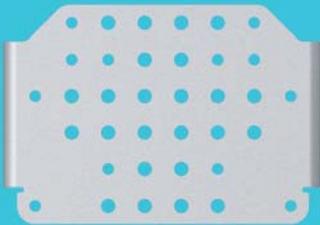
轴承



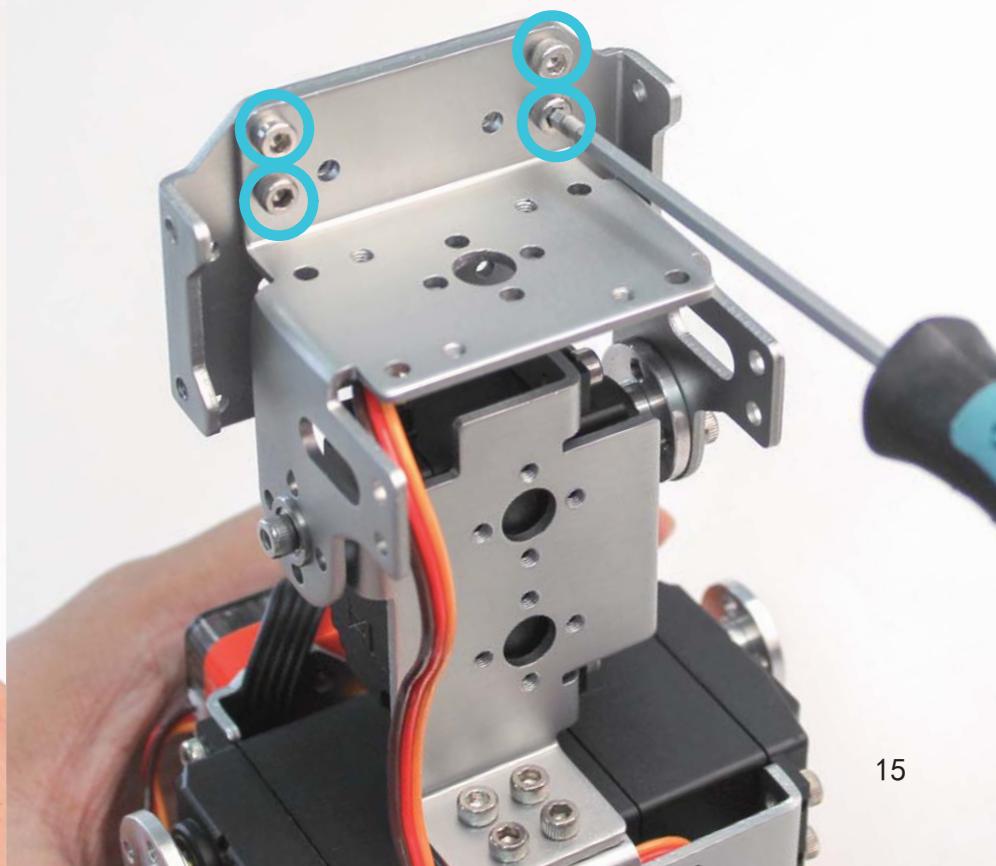
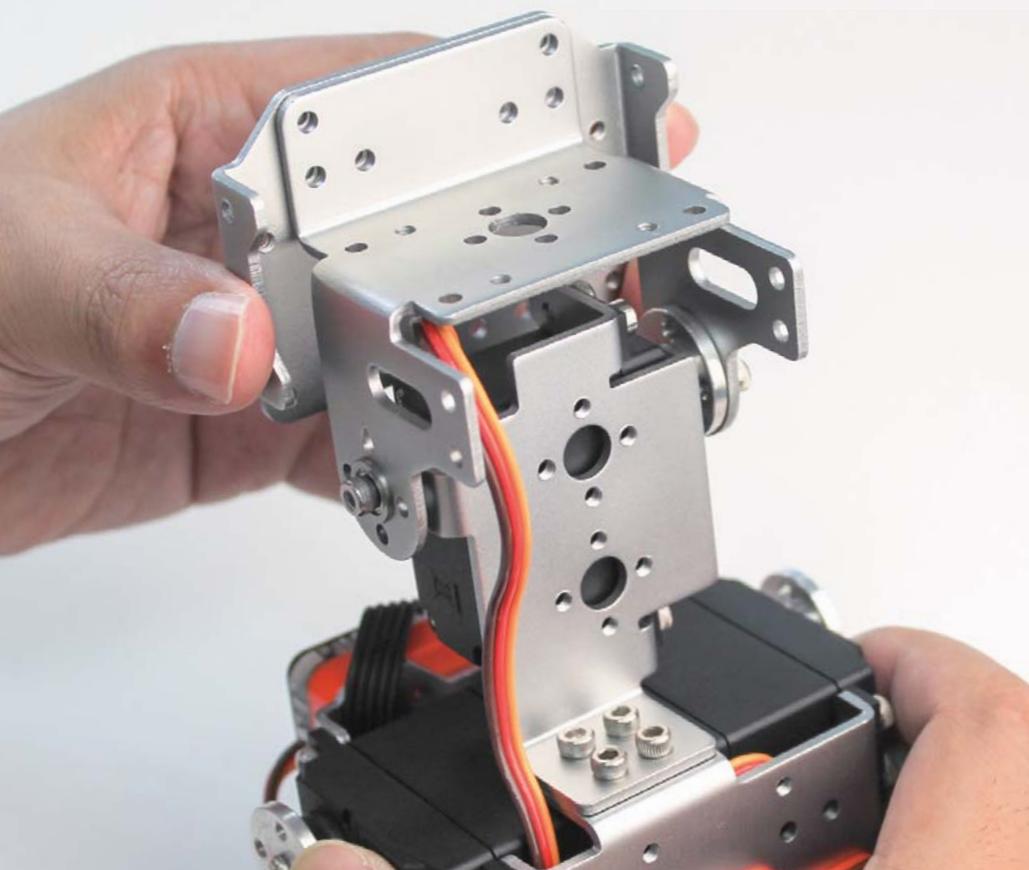
M3X8



11



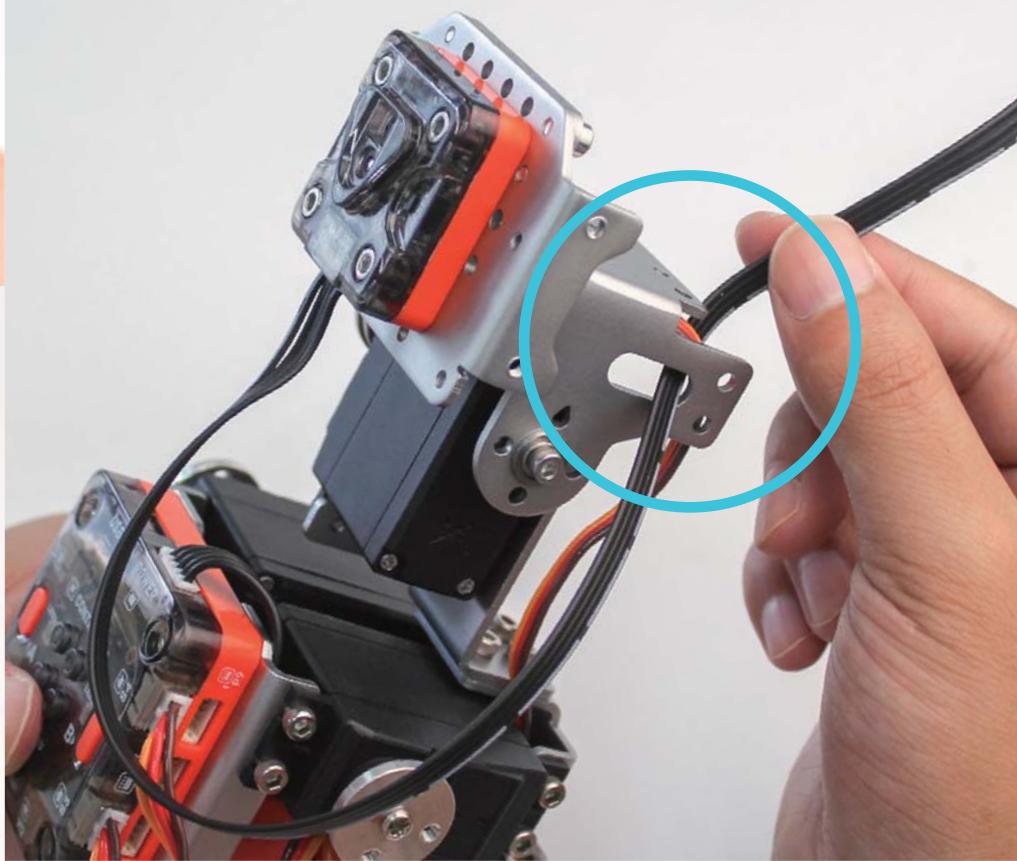
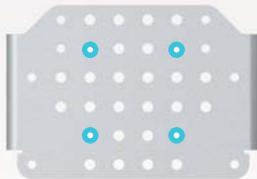
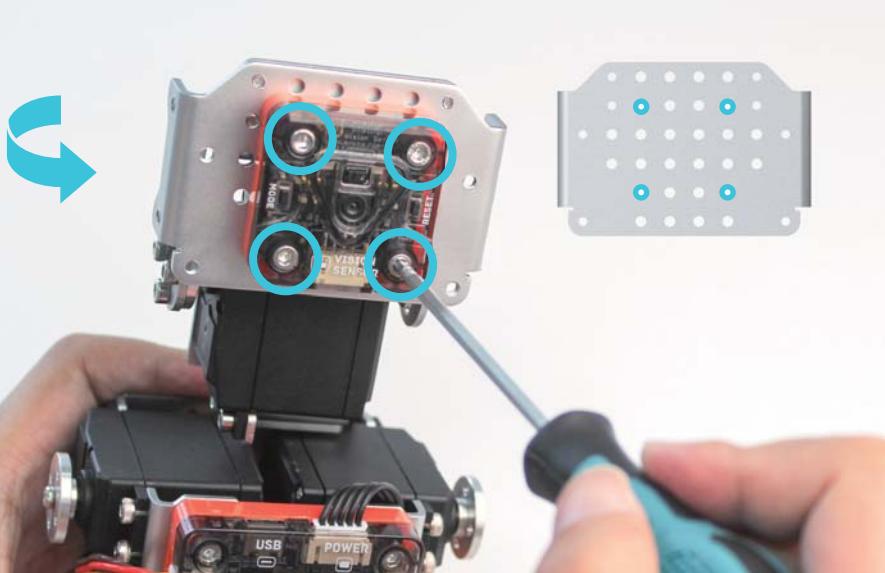
X4



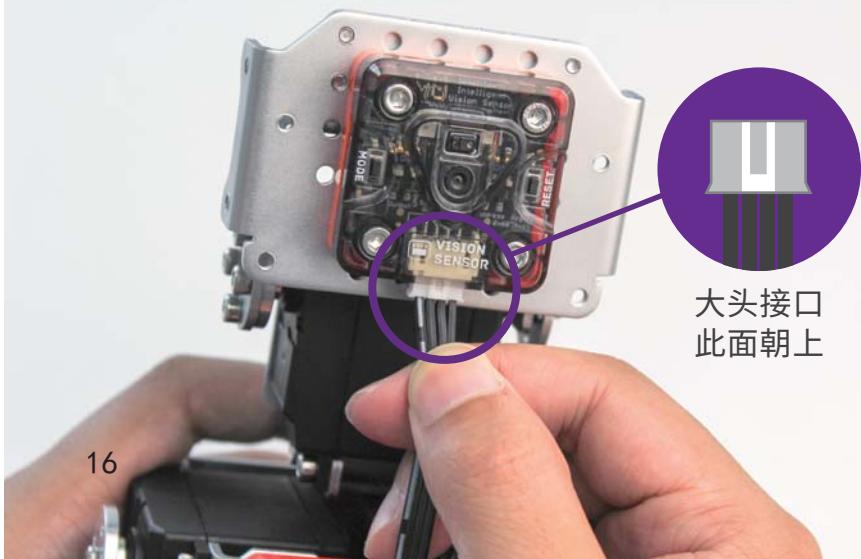
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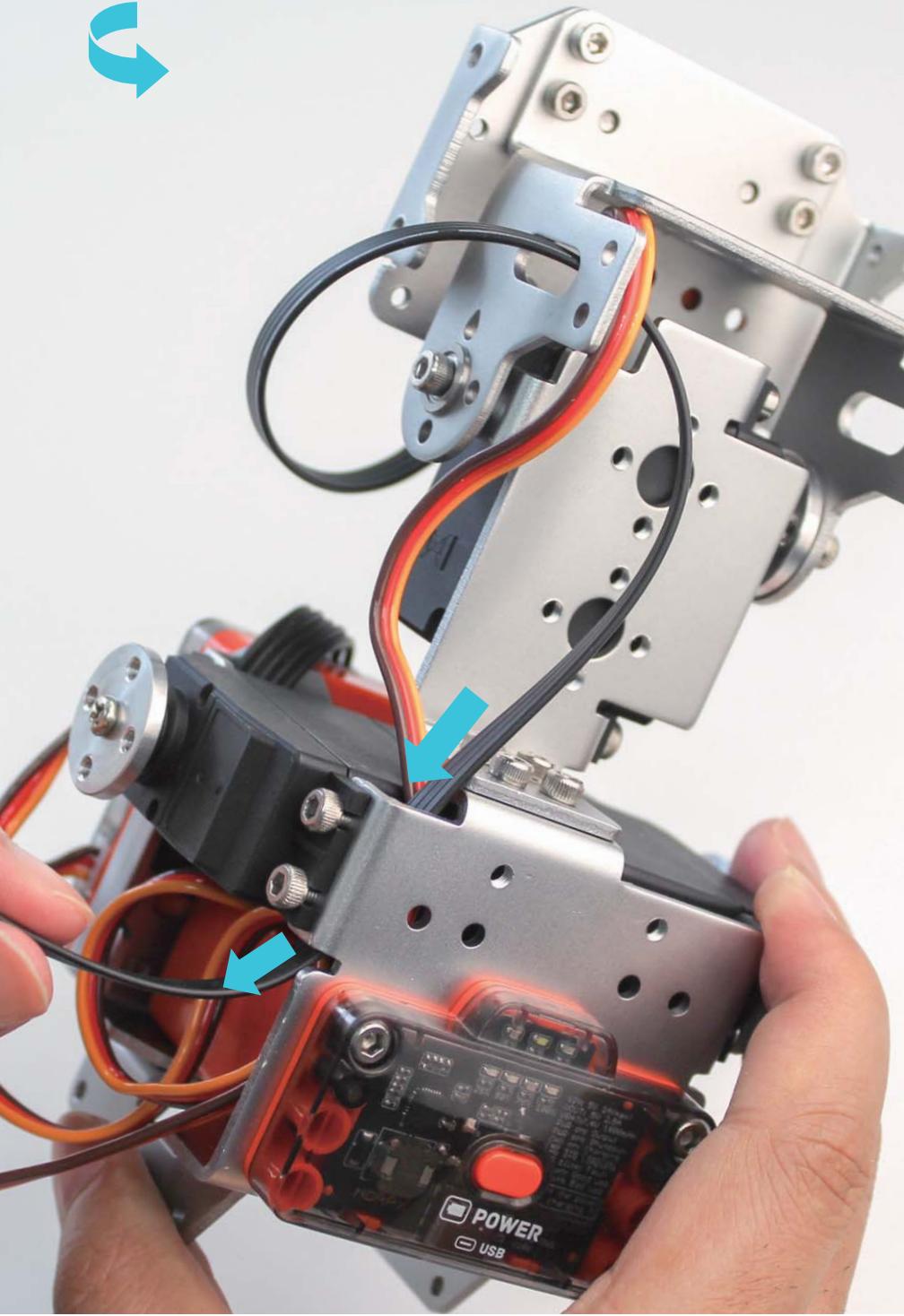


X2

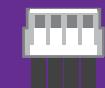


大头接口
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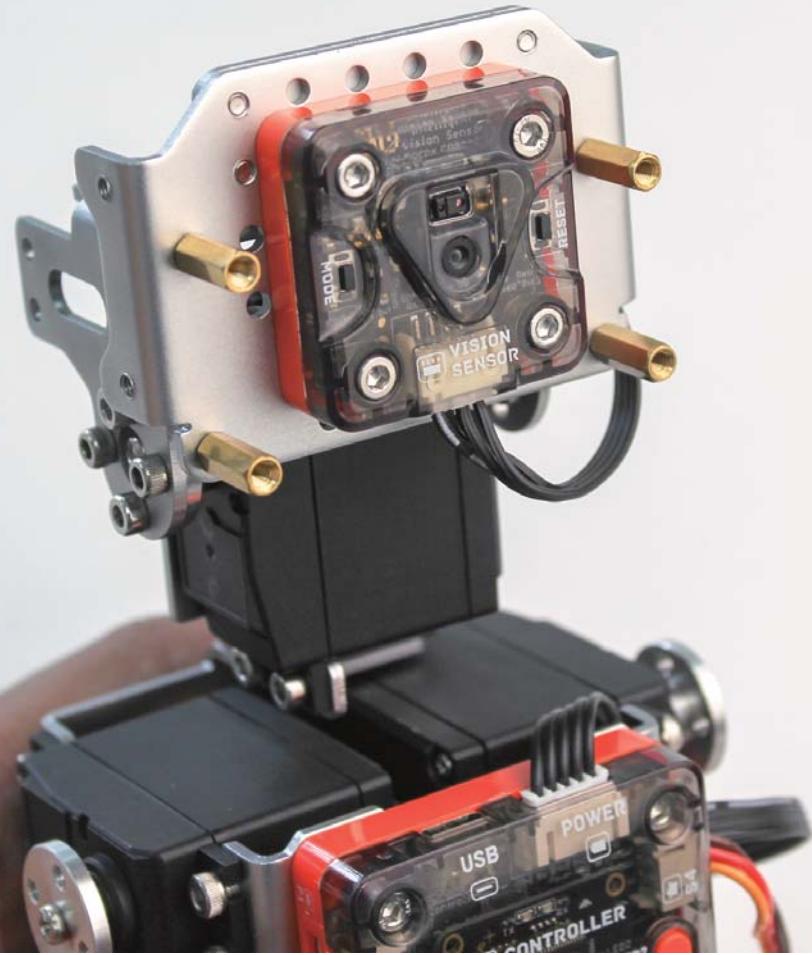
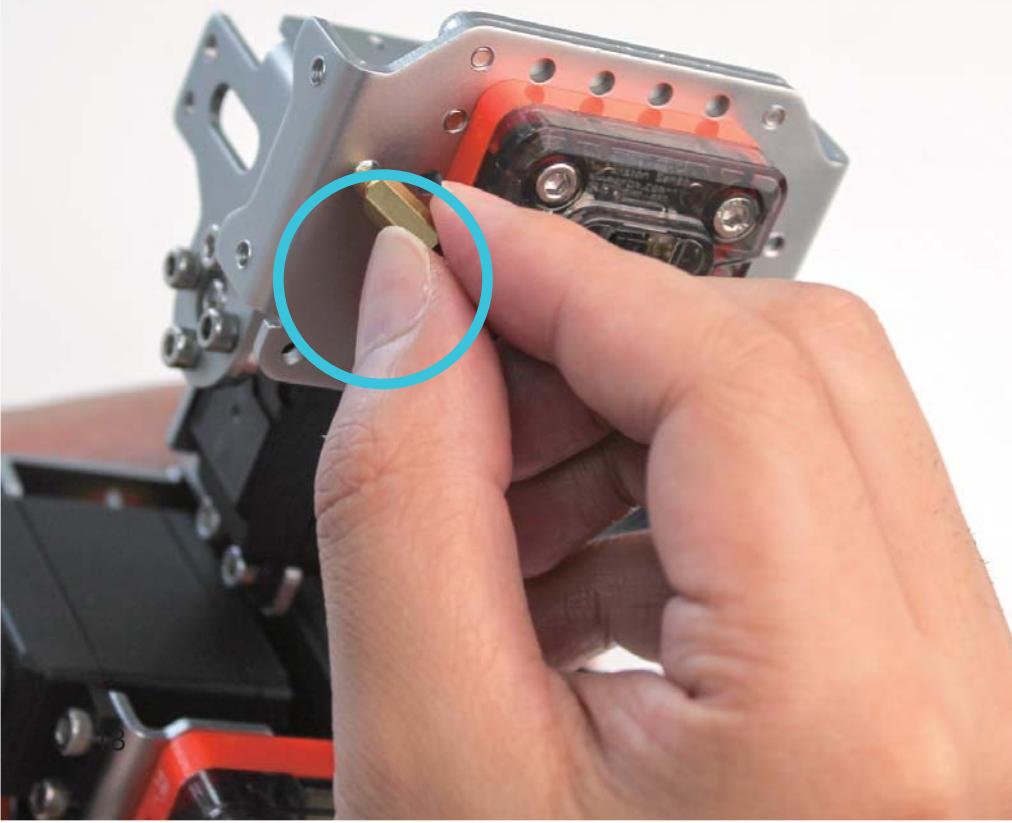
视觉模块 >>> P9



13



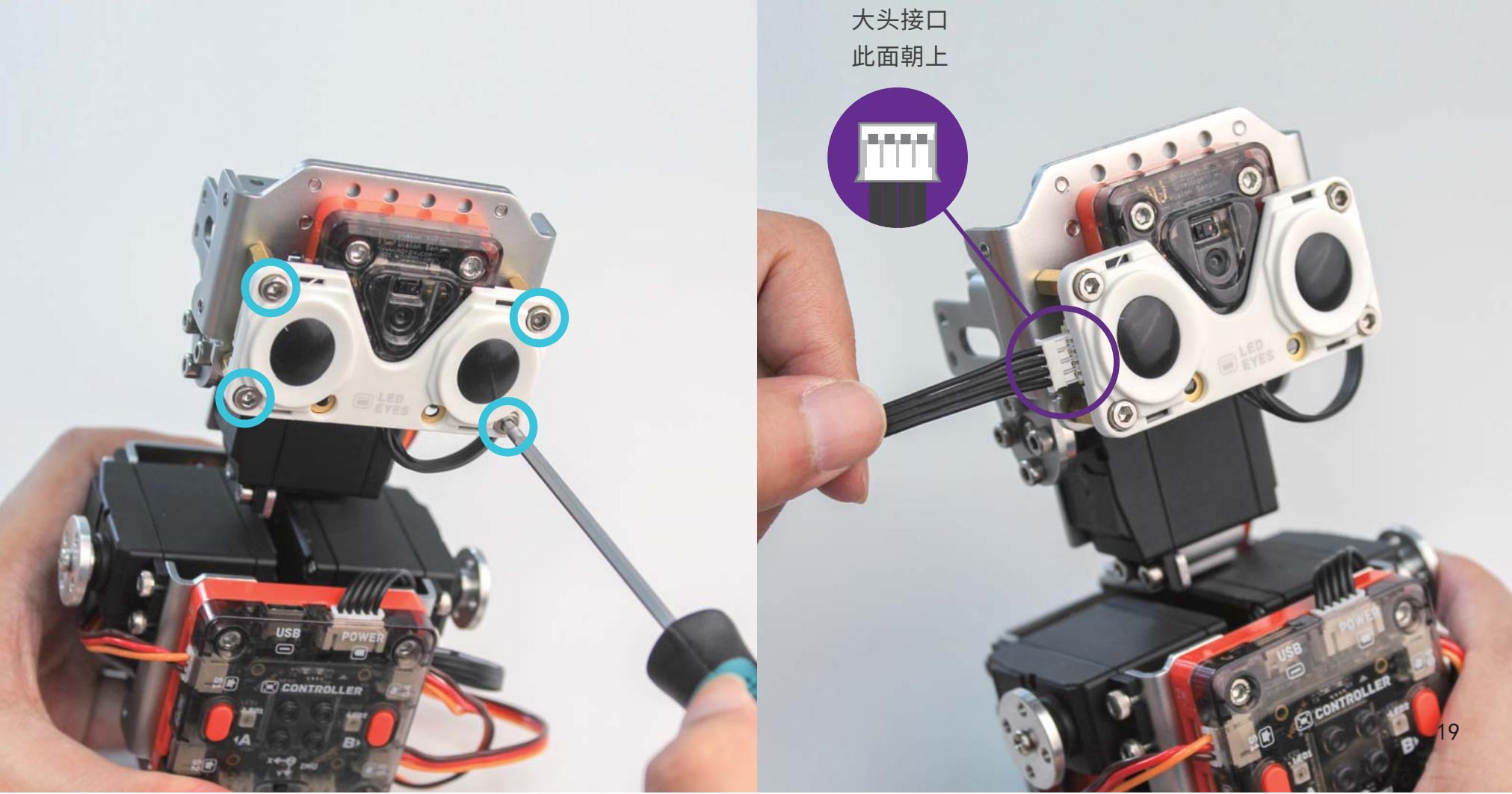
X4



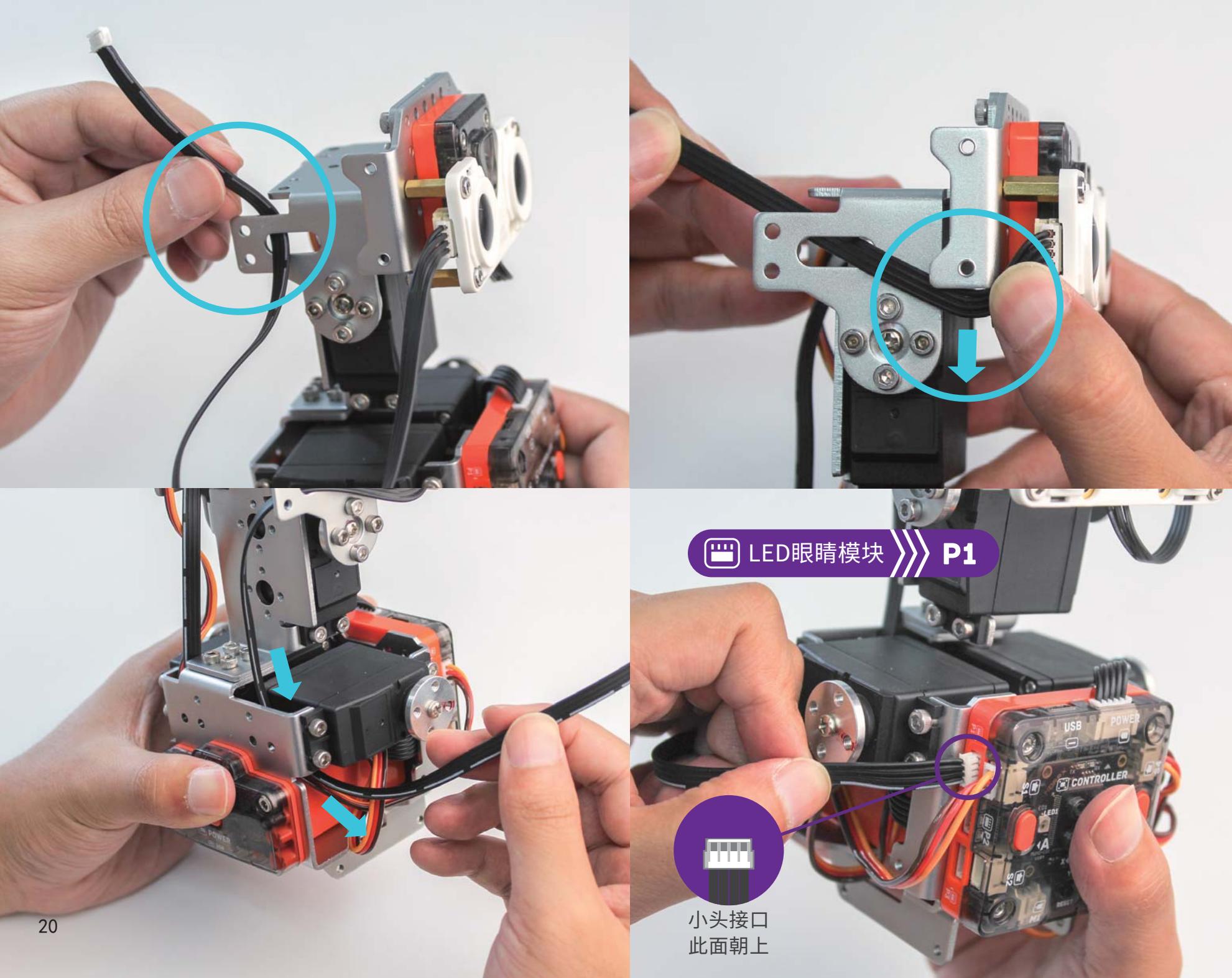
14



X4



大头接口
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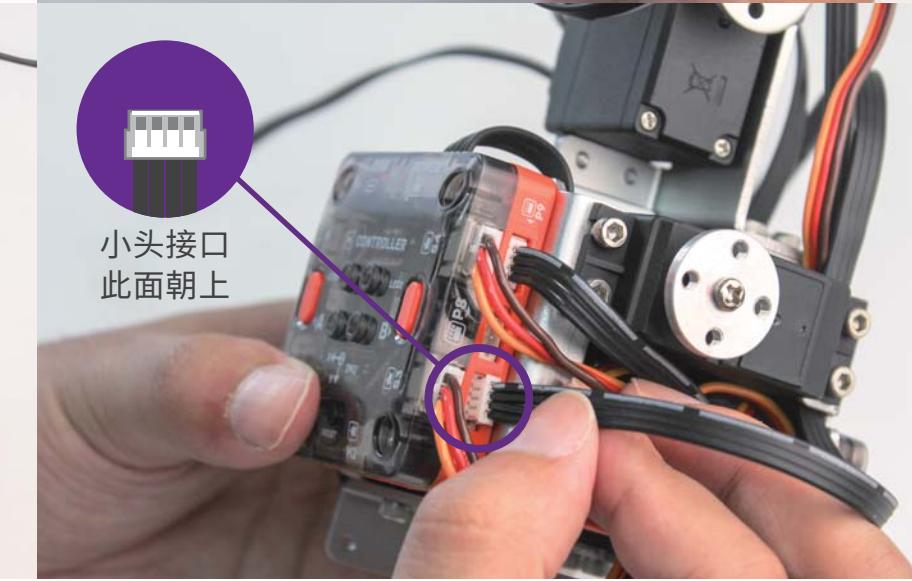
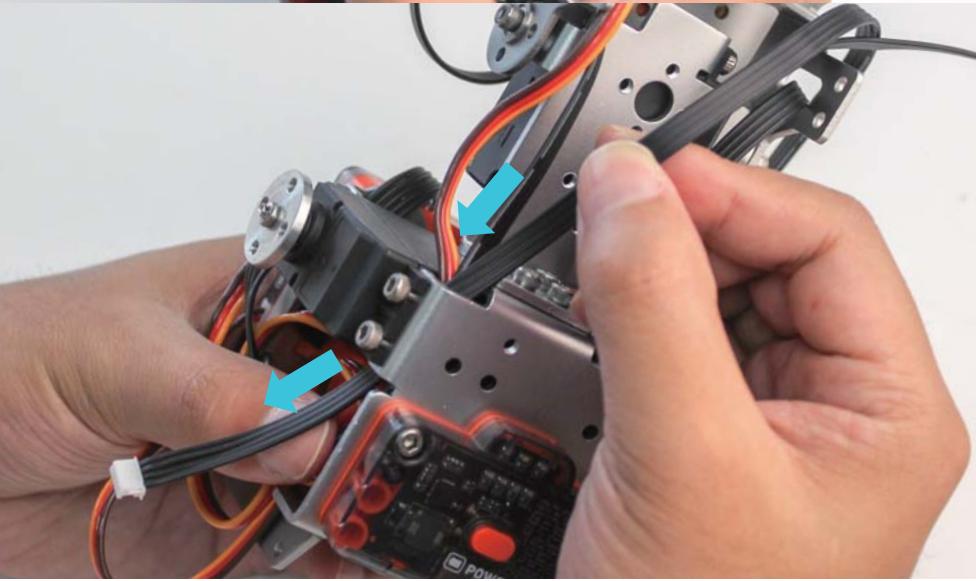
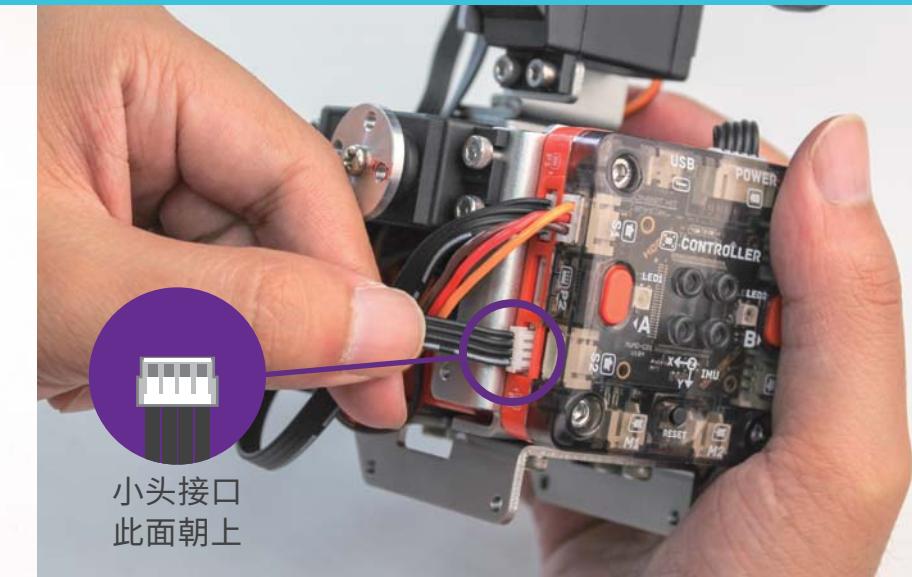
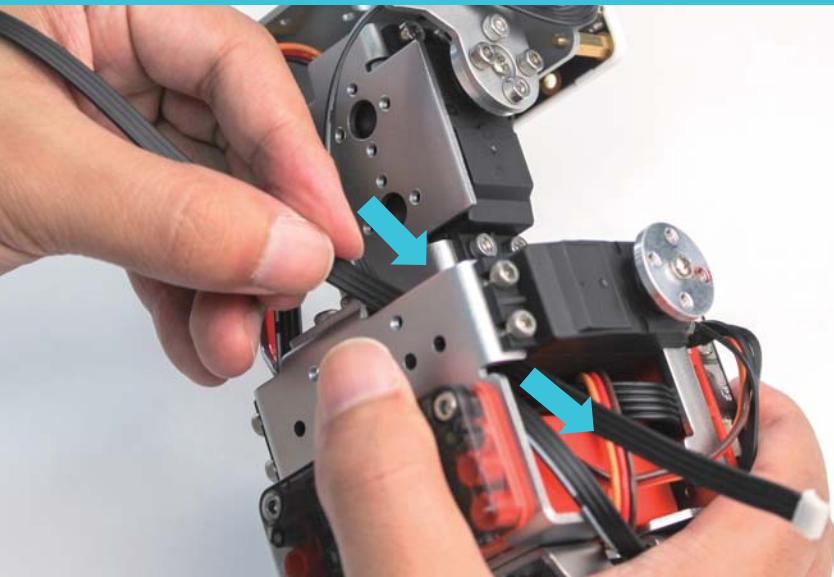


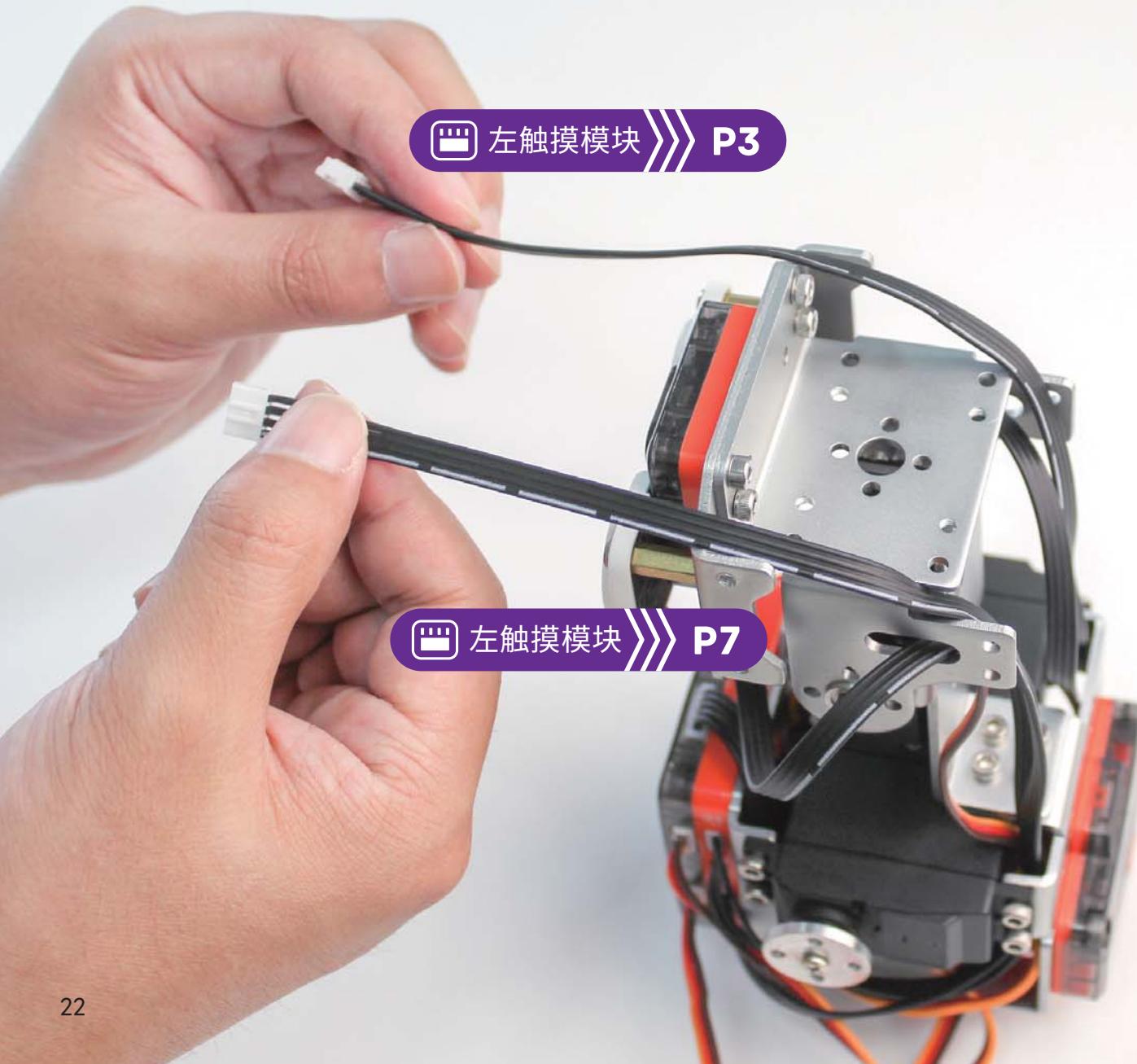
LED眼睛模块 >>> P1



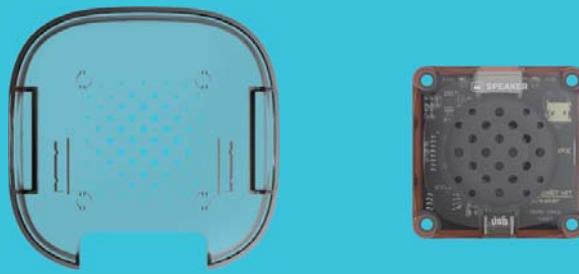
小头接口
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15

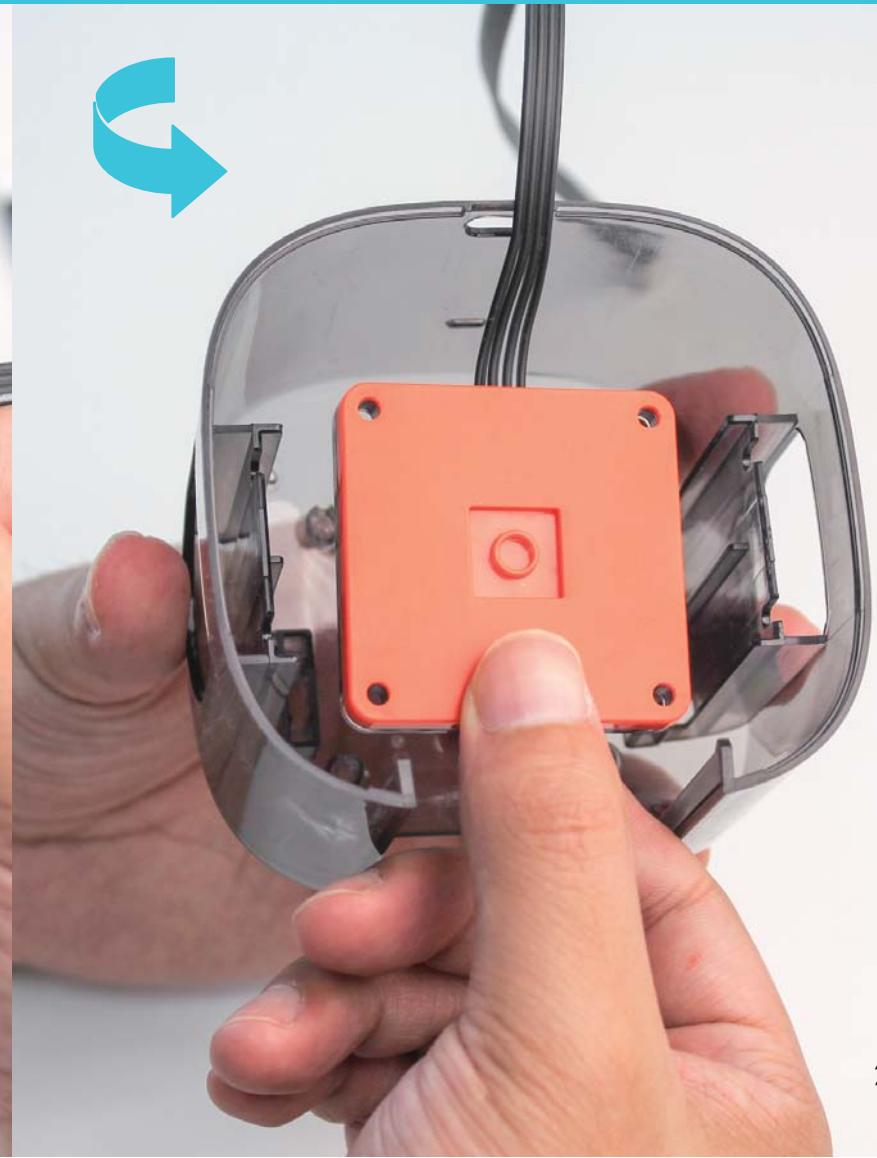
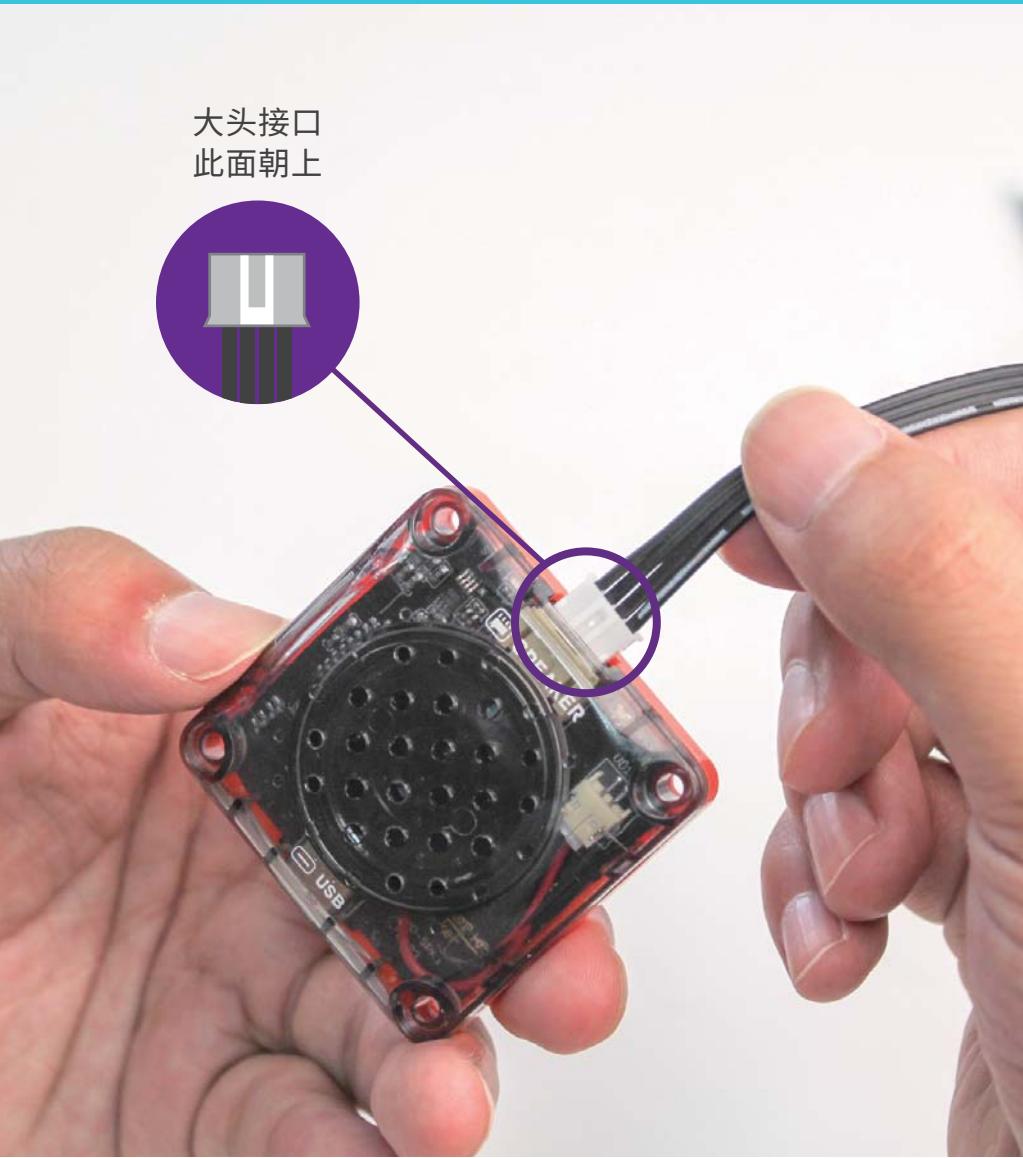
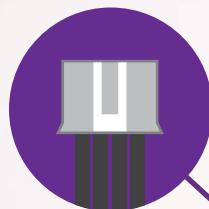


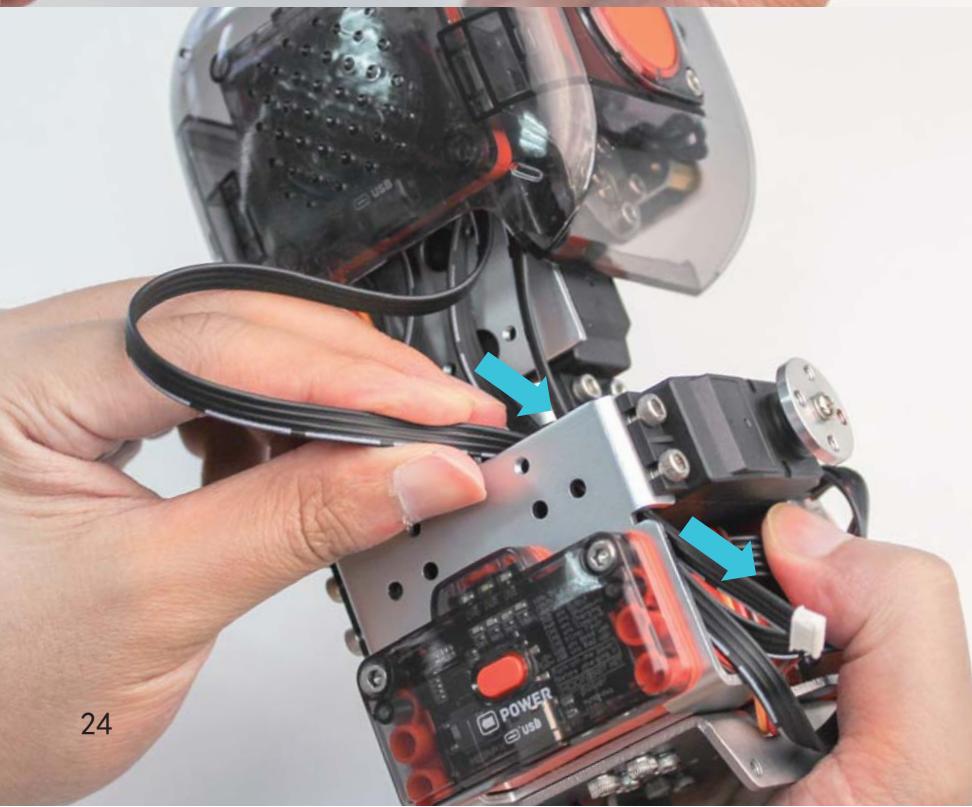
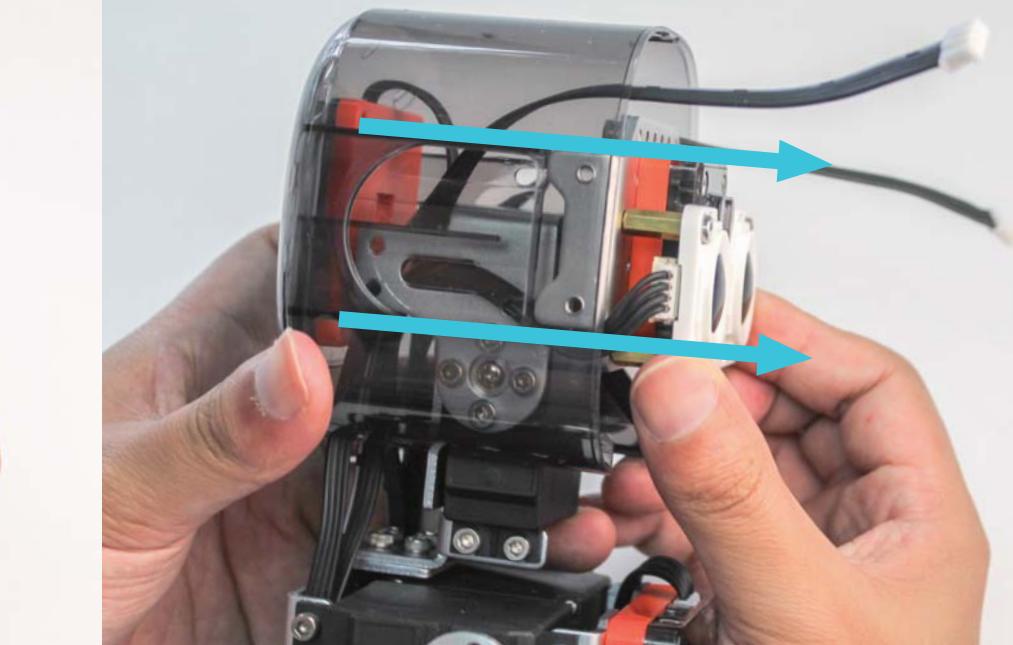
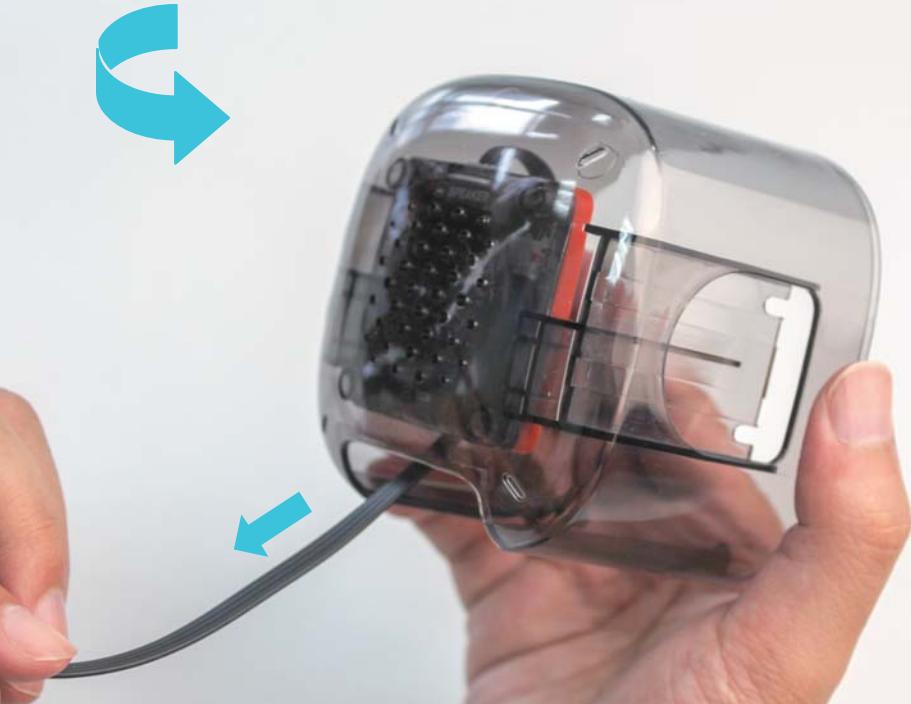
 左触摸模块 >>> P3 左触摸模块 >>> P7

16

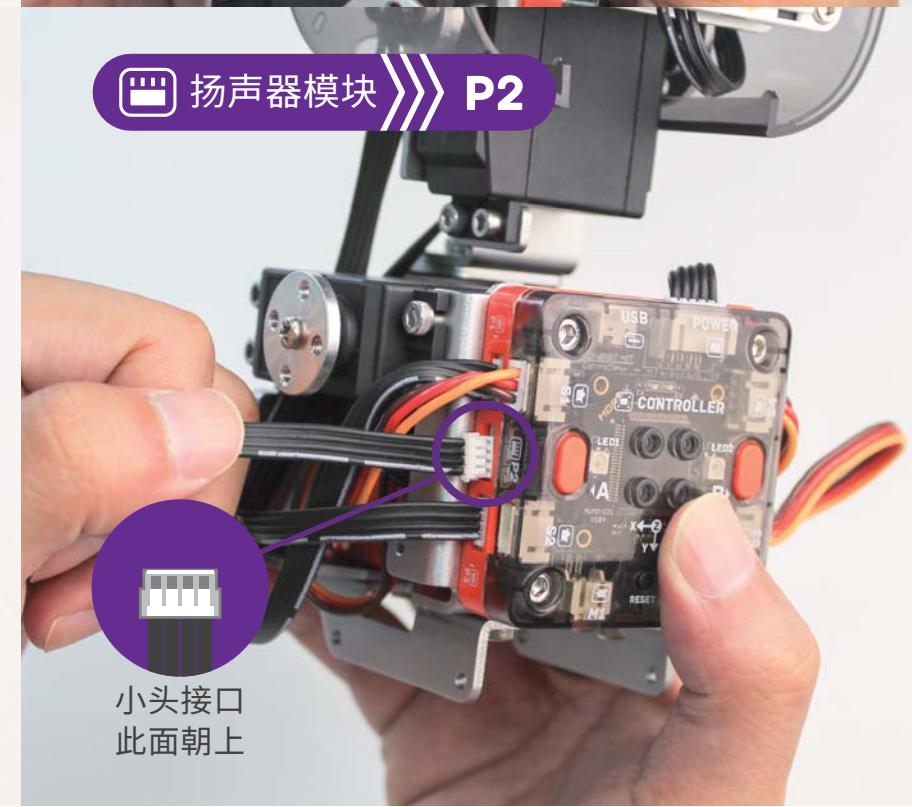


大头接口
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扬声器模块 ➞ P2



17



X2



18



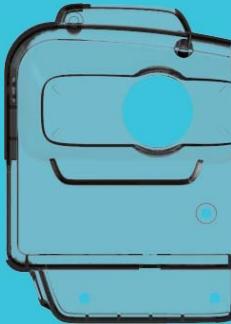
X2



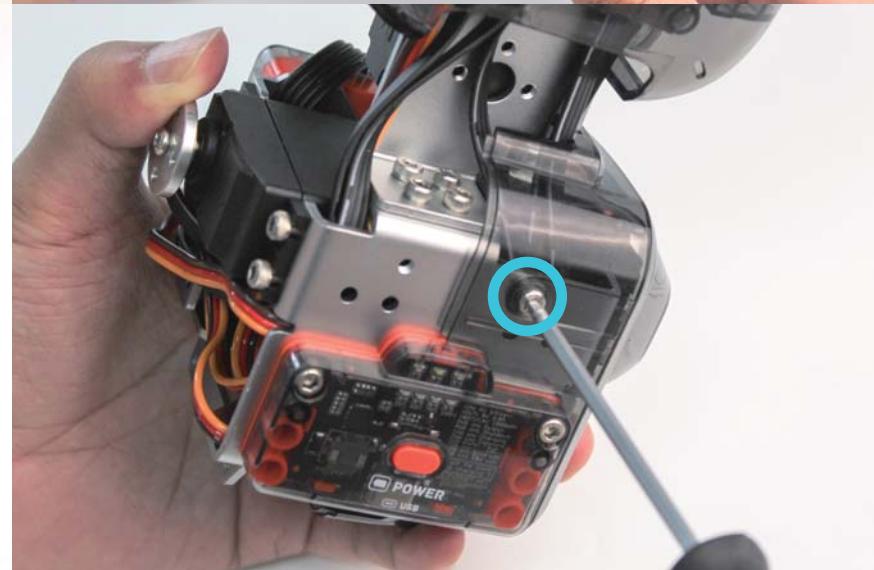
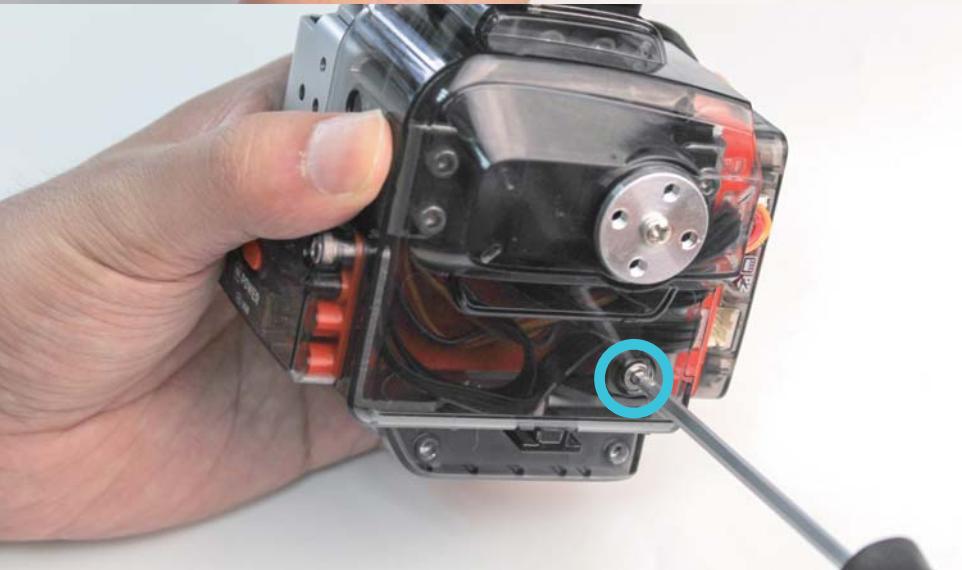
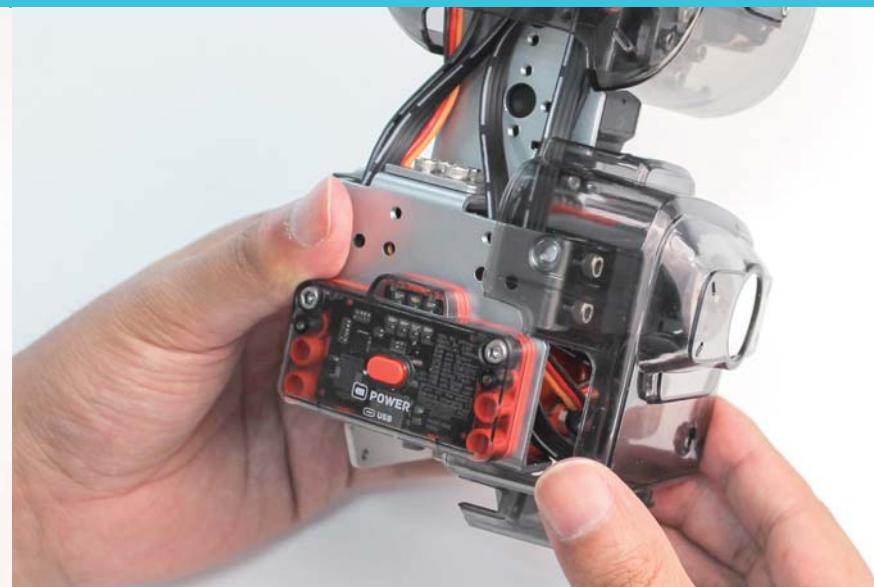
使用同样的方式安装左边的触摸模块



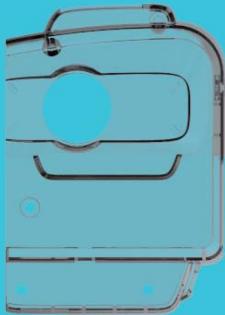
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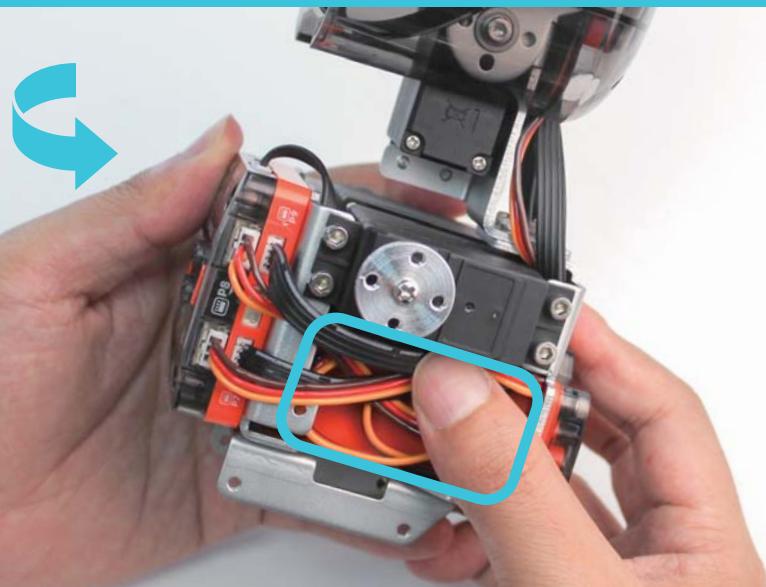
M3X4
X2



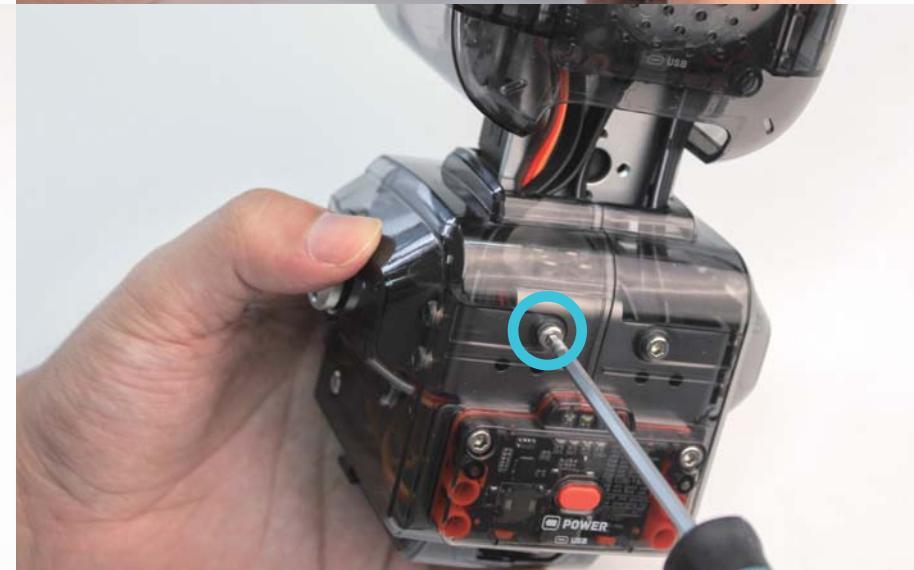
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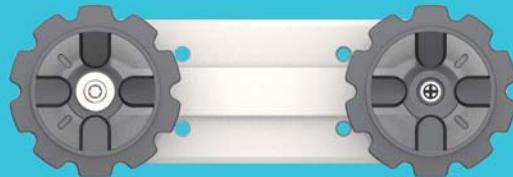
M3X4
X2



整理线束，让其
尽量贴合此区域
并合好左右盖



21



X2

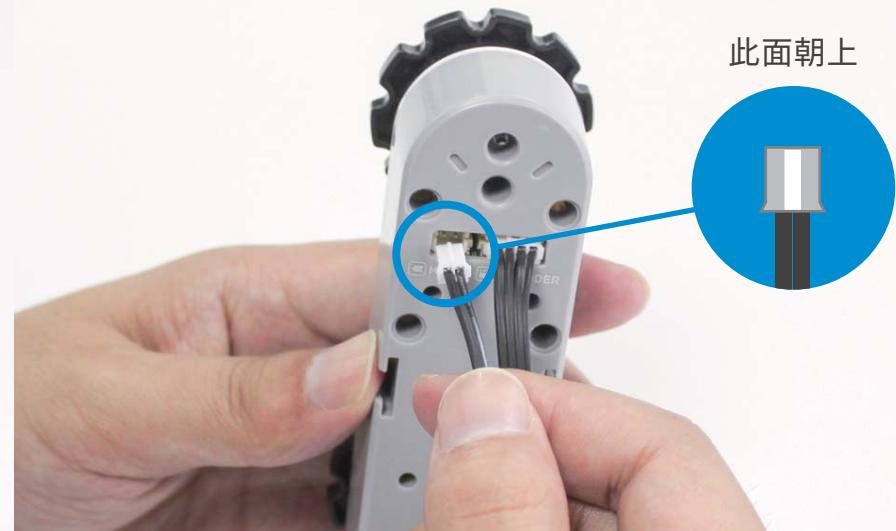
= 2PIN ↗ 18CM

= 4PIN ↗ 18CM

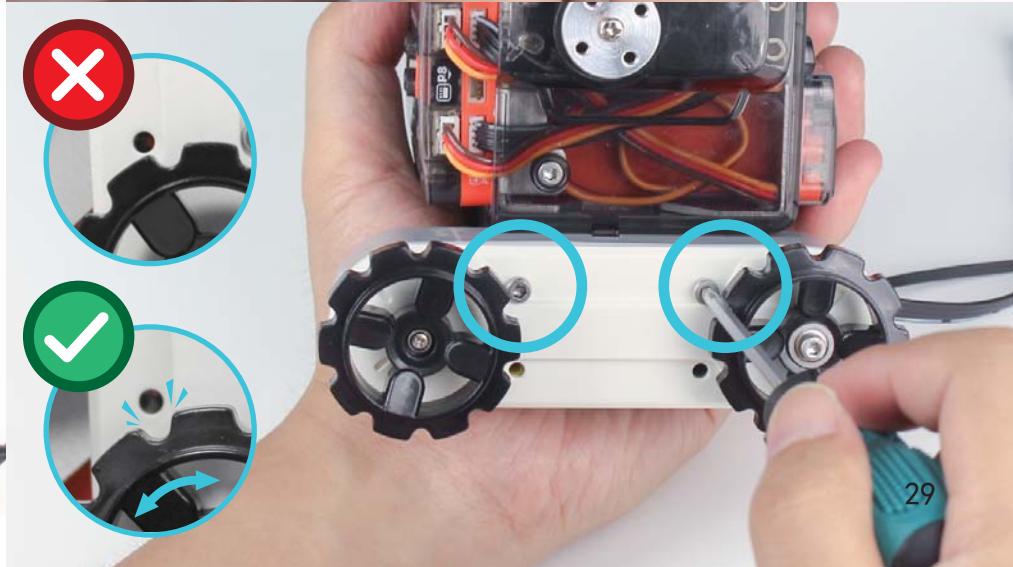
大头接口
此面朝上



此面朝上



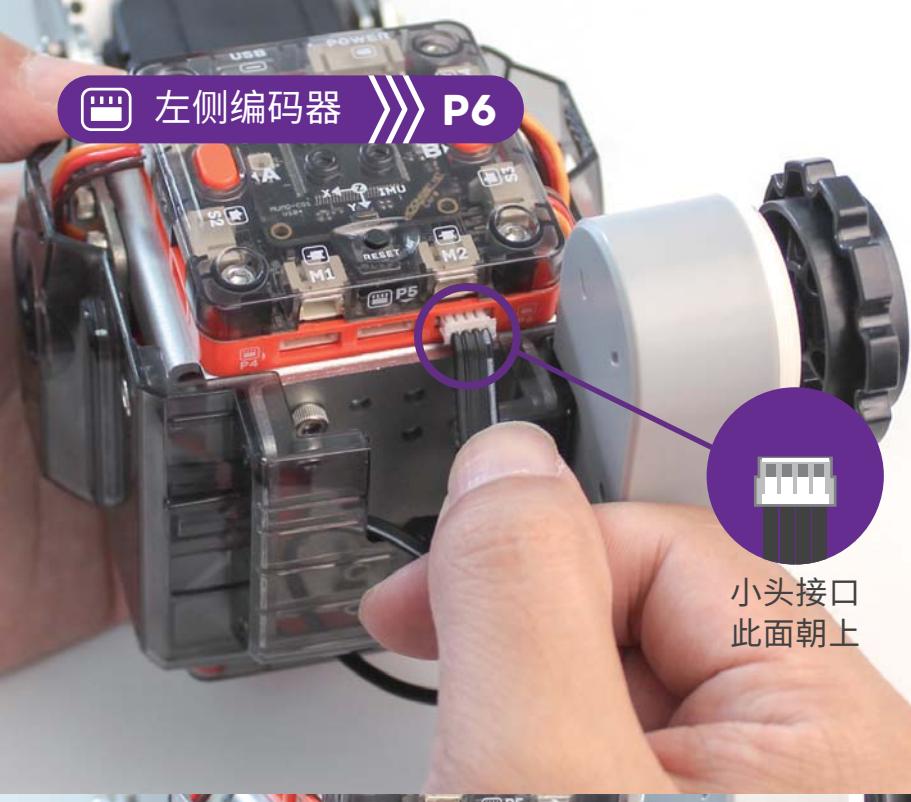
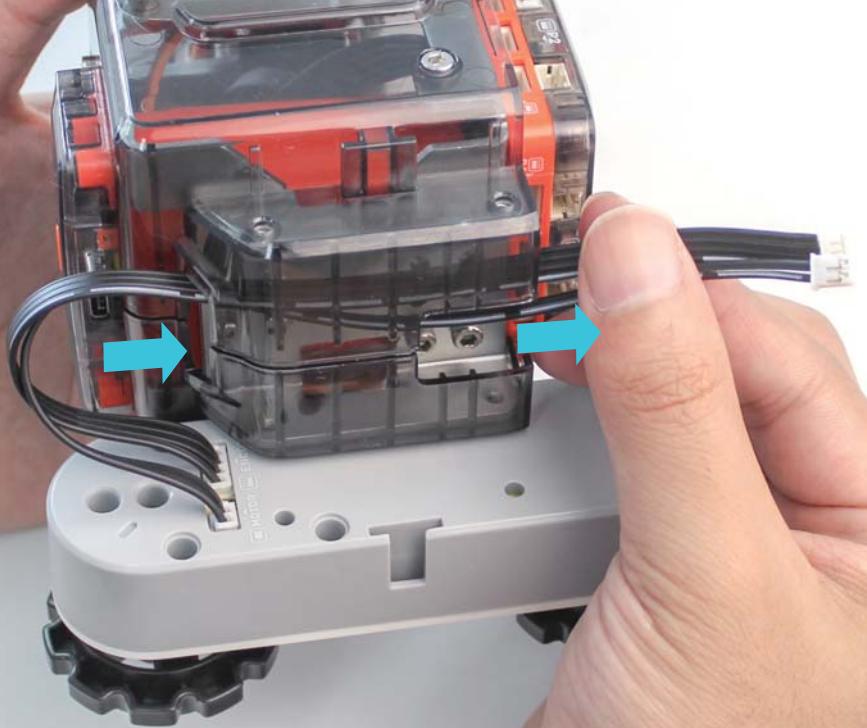
注意：电机接线在后段





左侧编码器

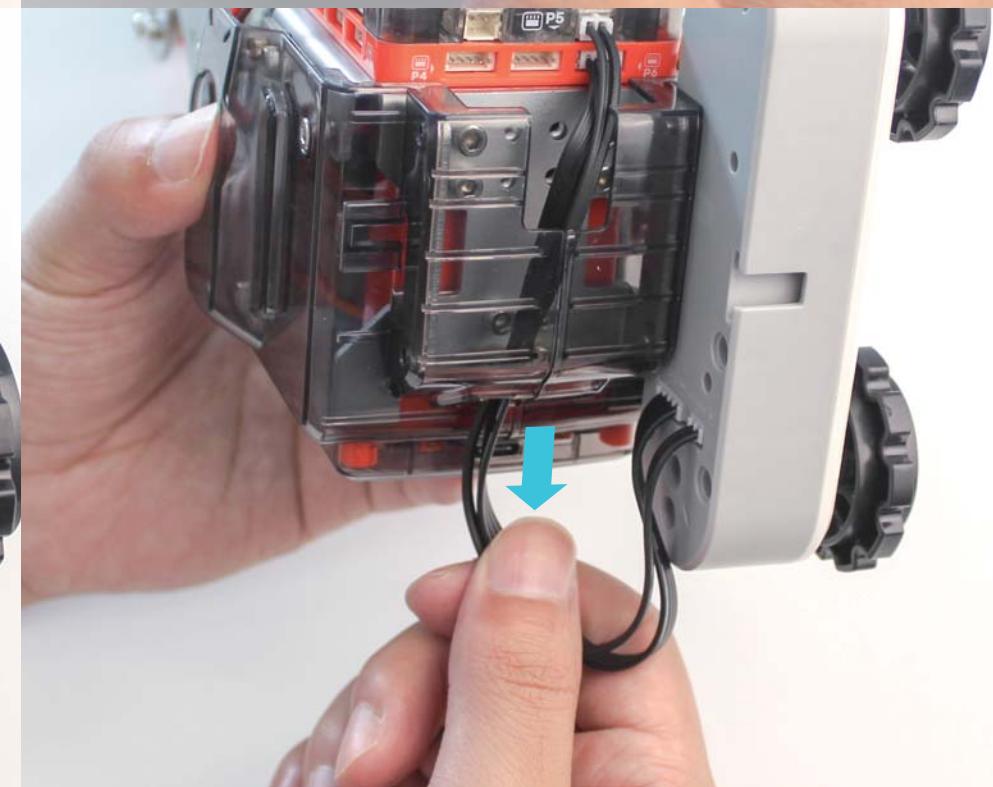
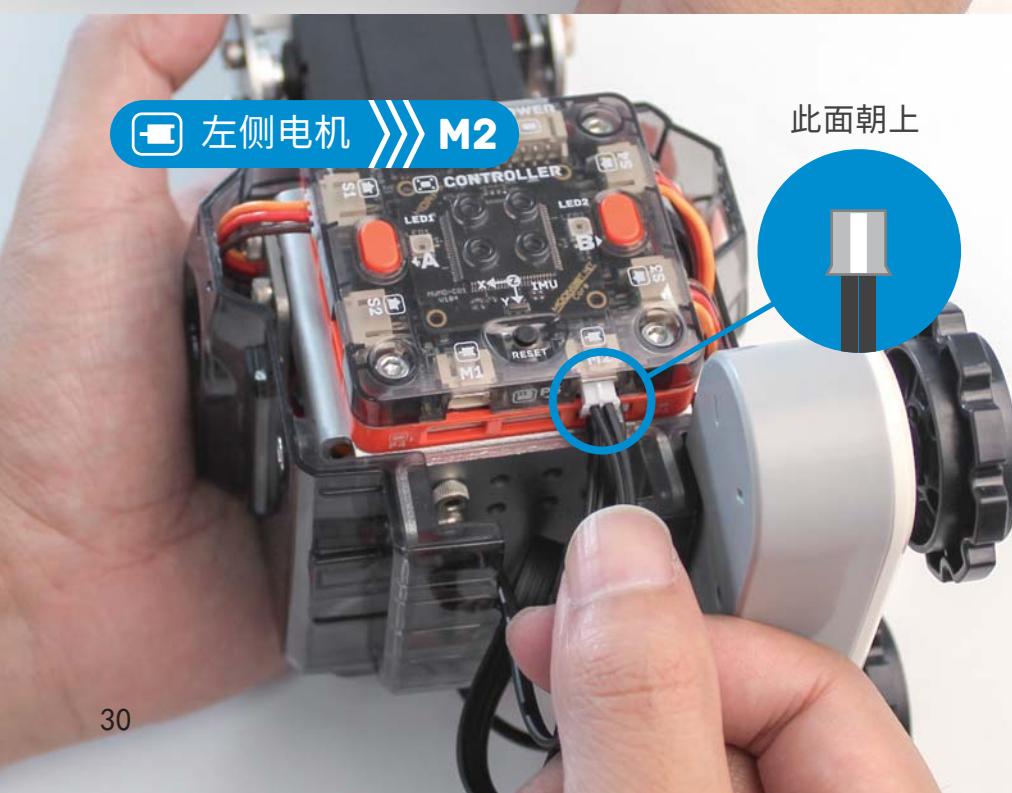
》》 P6



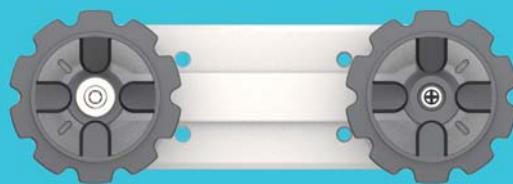
左侧电机

》》 M2

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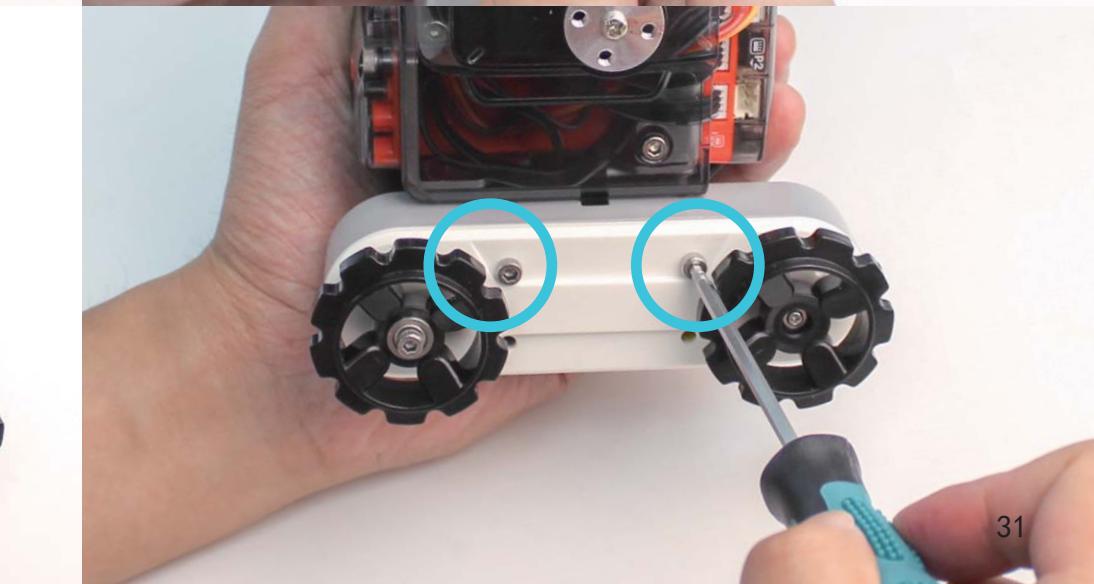
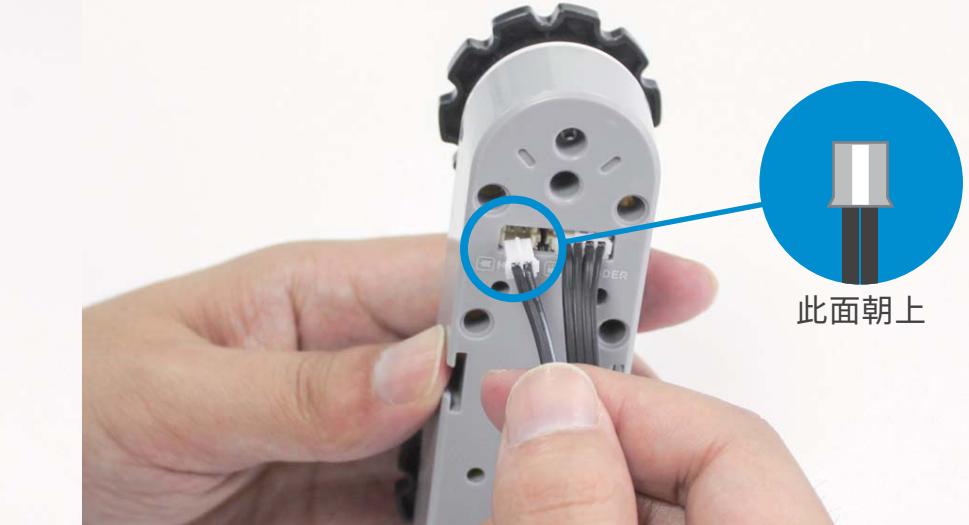
22



X2

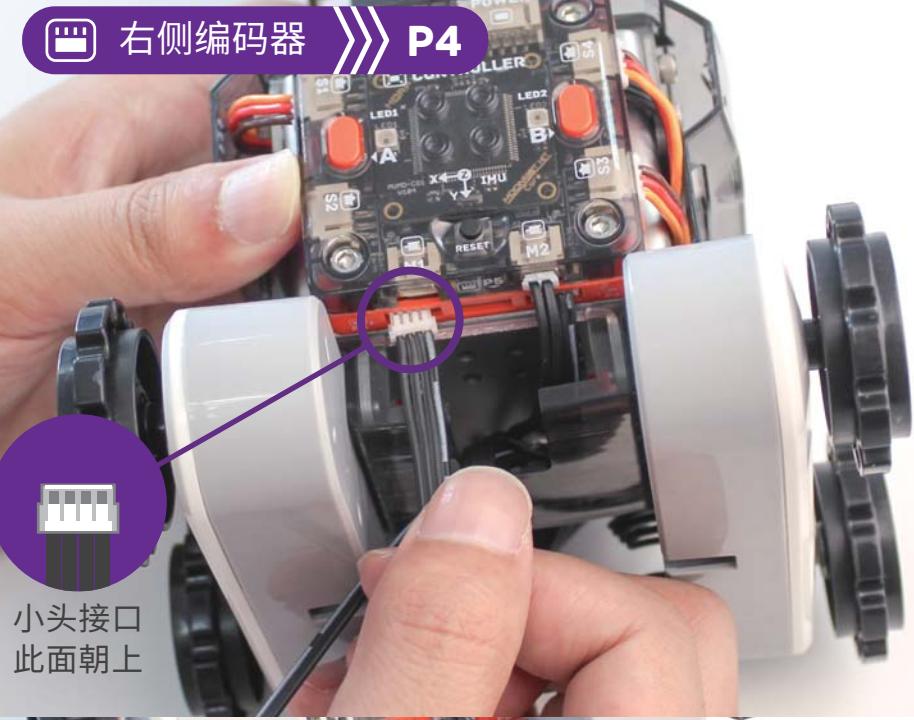
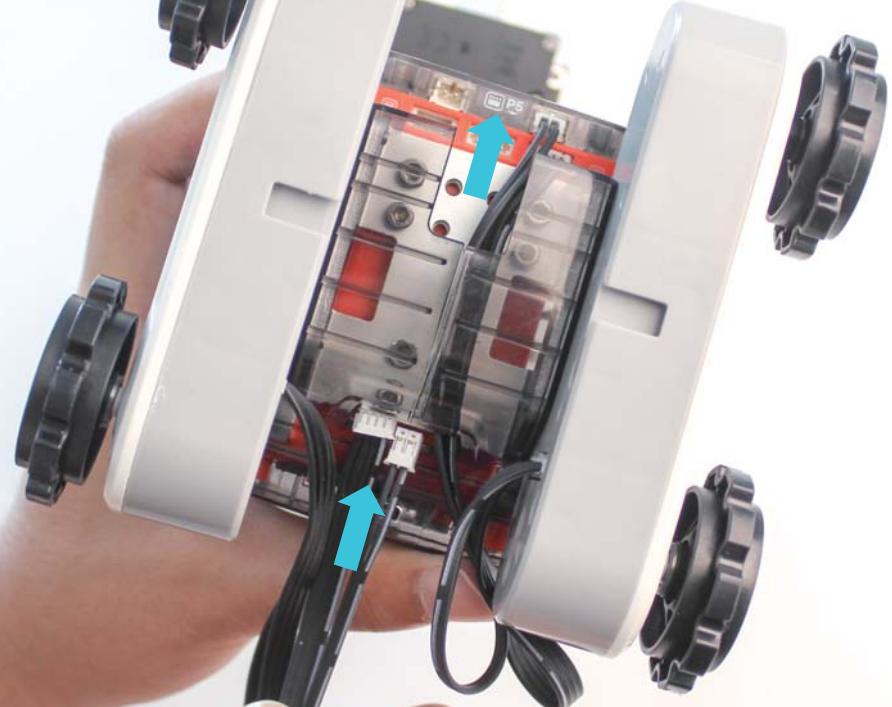
= 2PIN ↗ 18CM

= 4PIN ↗ 18CM

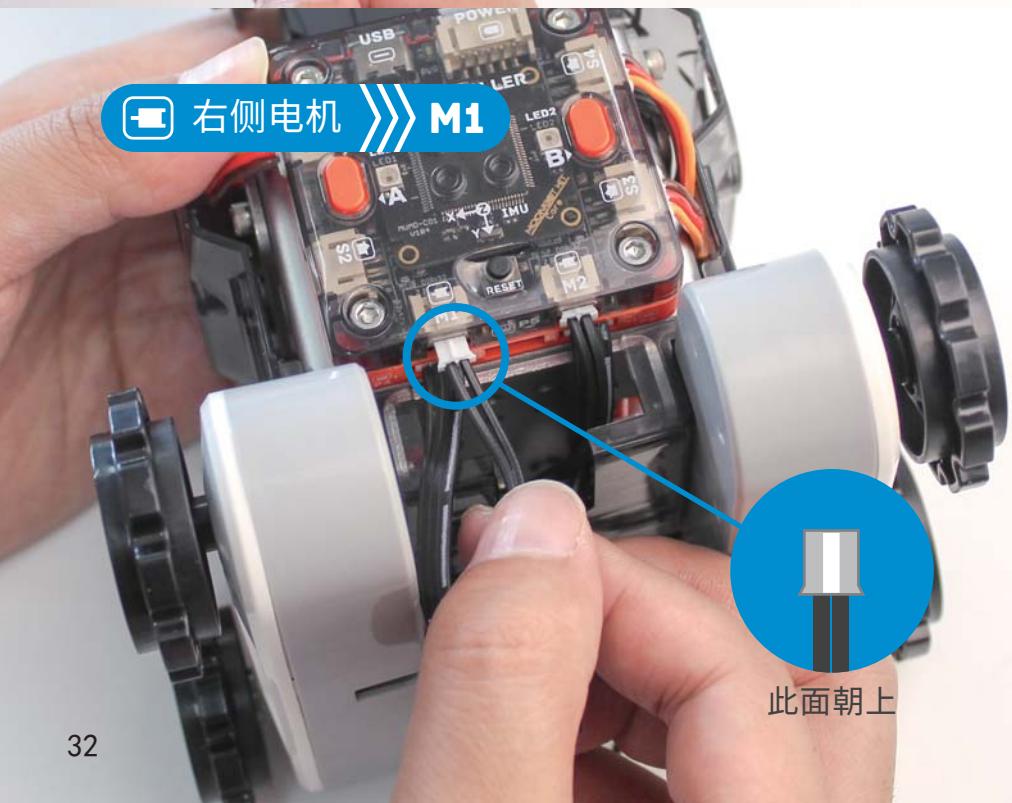


注意: 电机接线在后段

右侧编码器 ➞ P4



右侧电机 ➞ M1



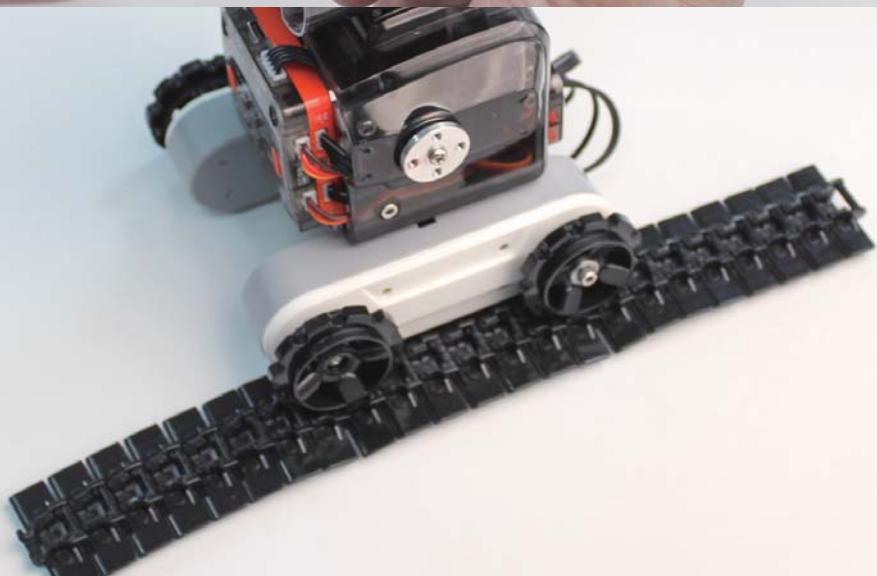
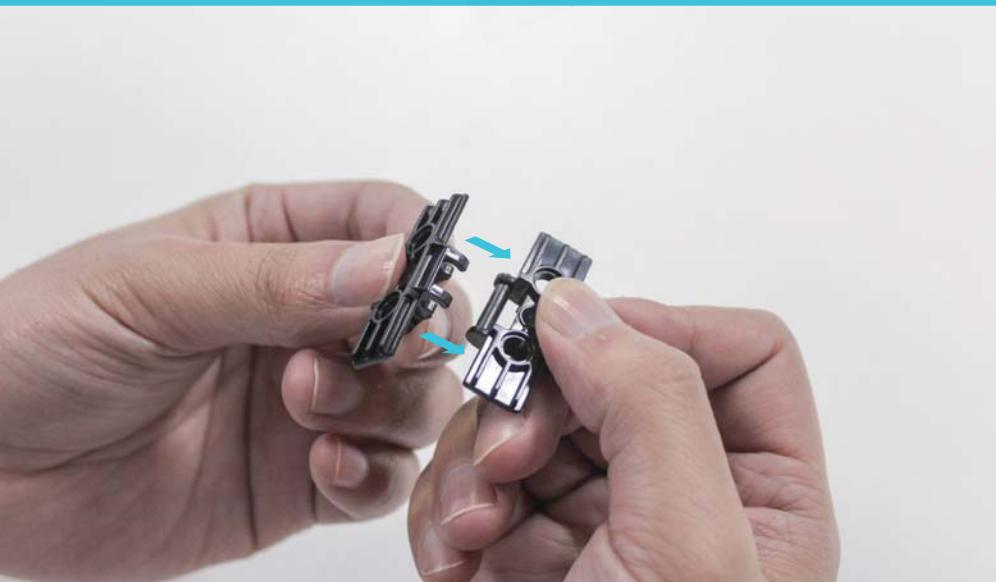
23



X23



X46



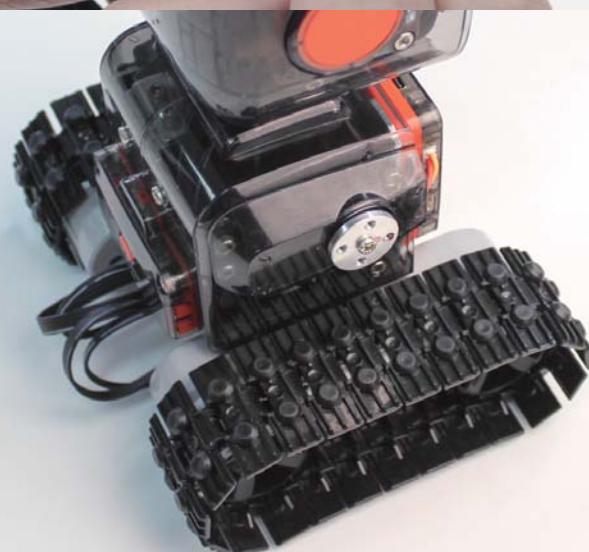
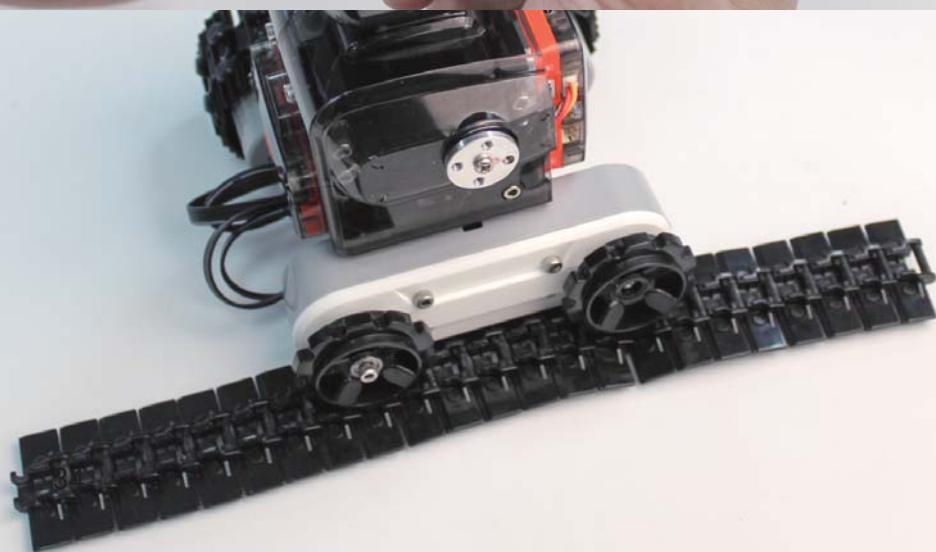
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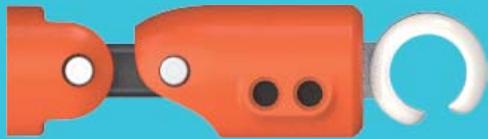
X23



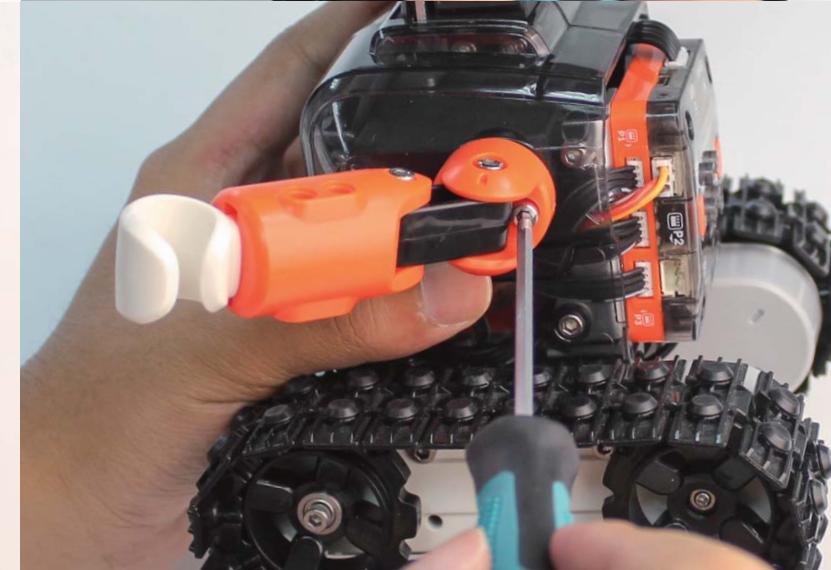
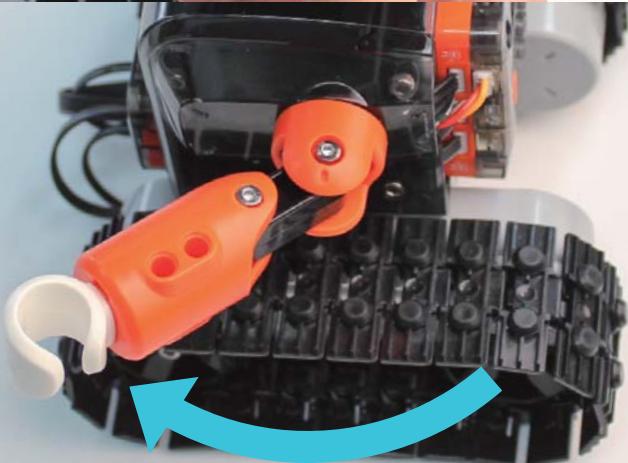
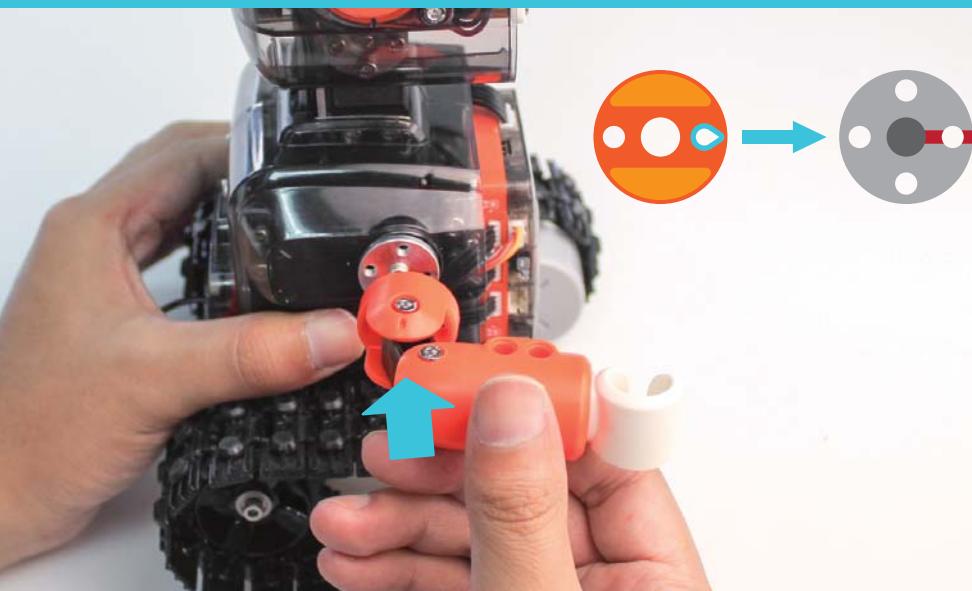
X46



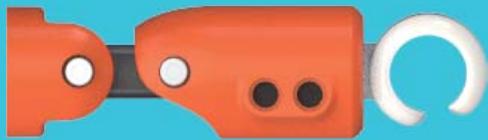
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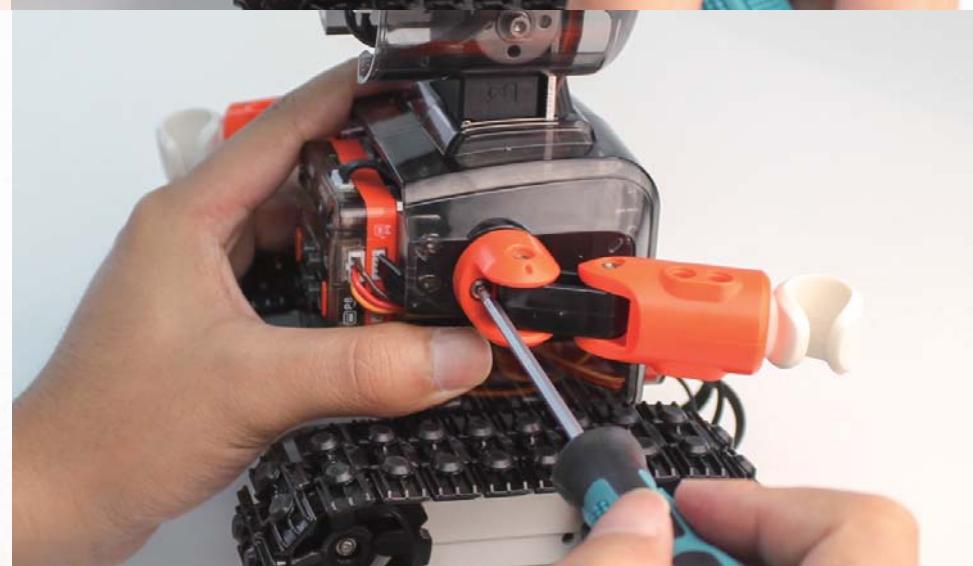
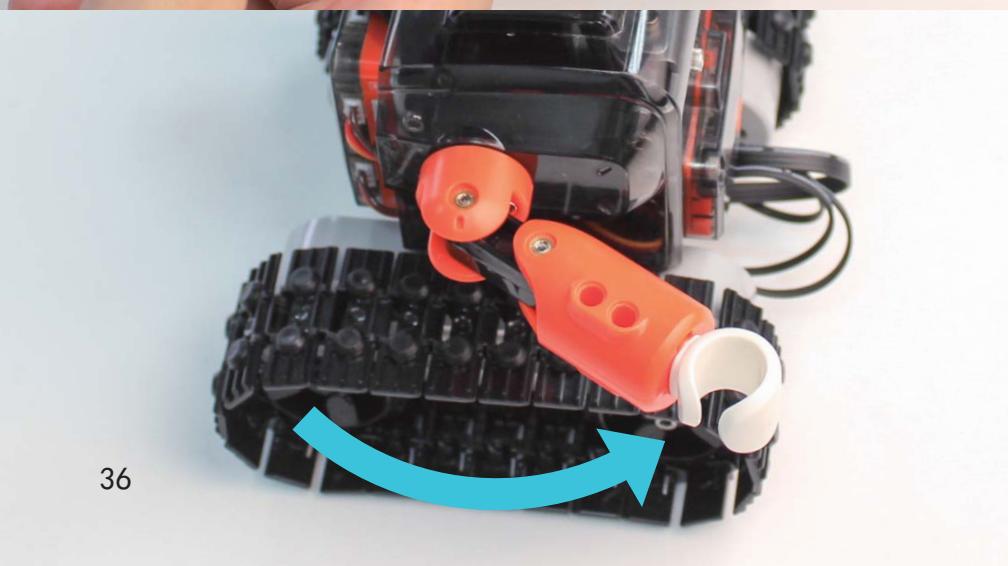
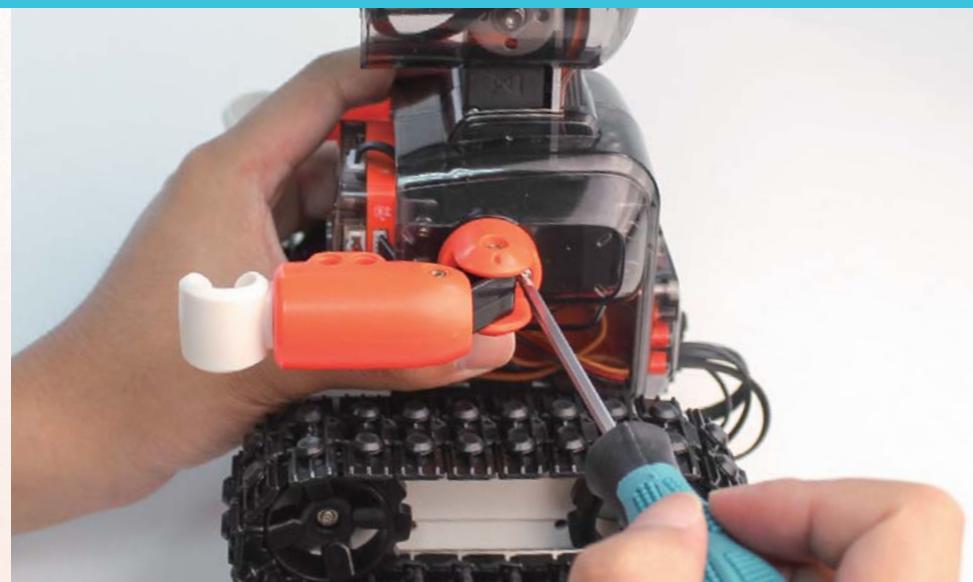
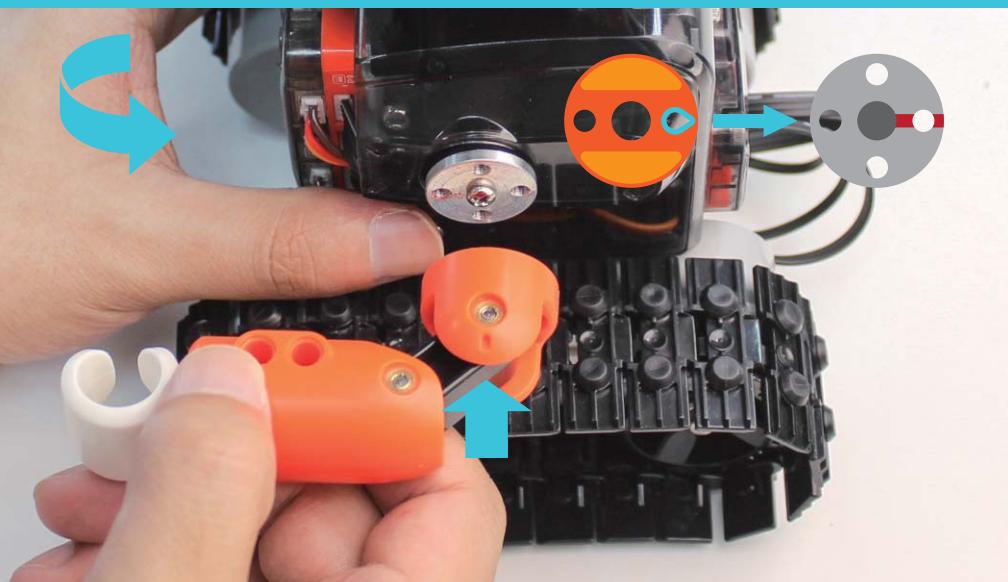
X2



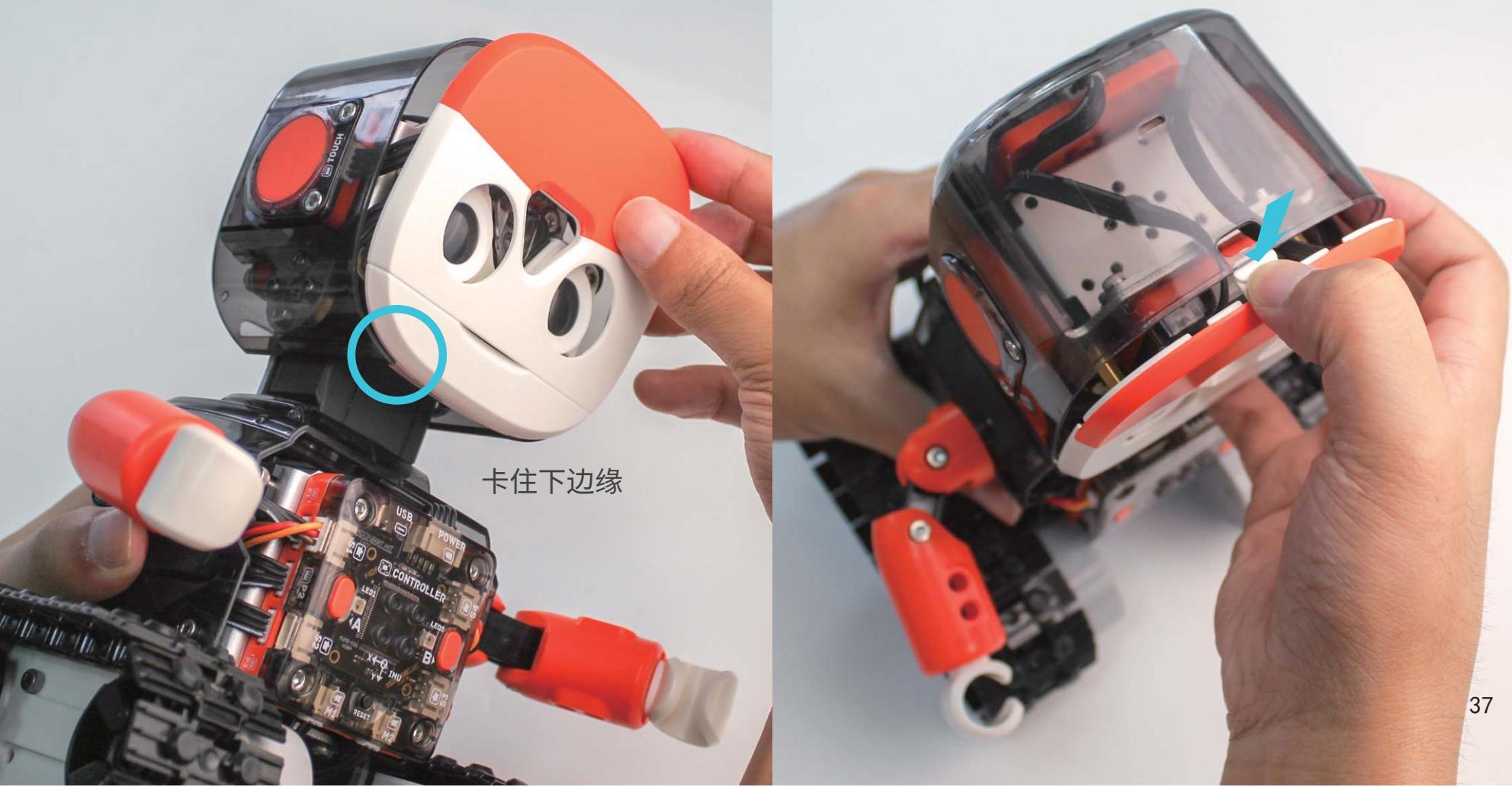
26



M3X4
X2

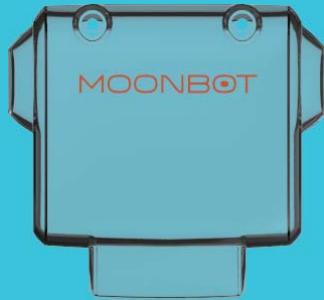


27

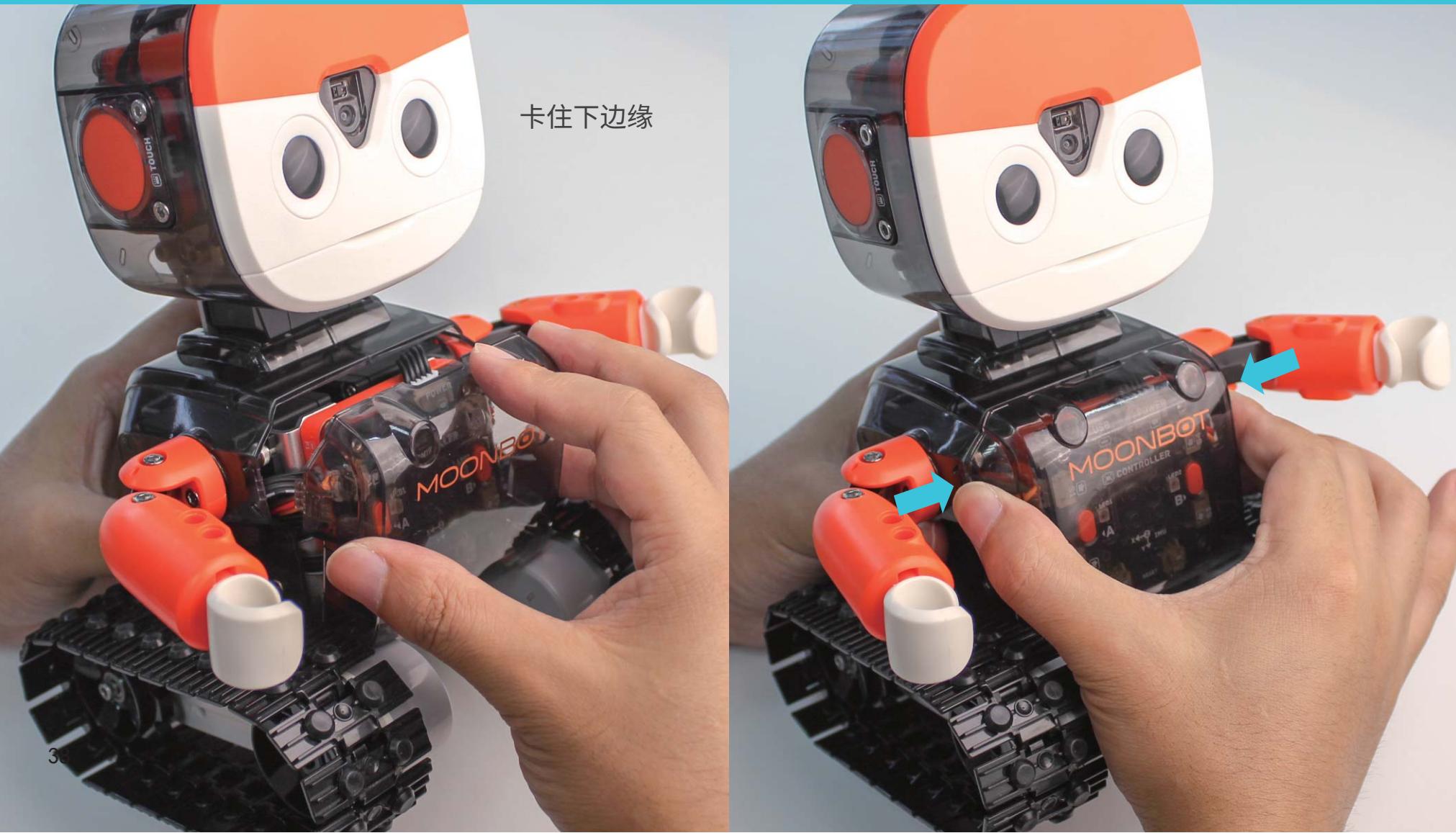


卡住下边缘

28

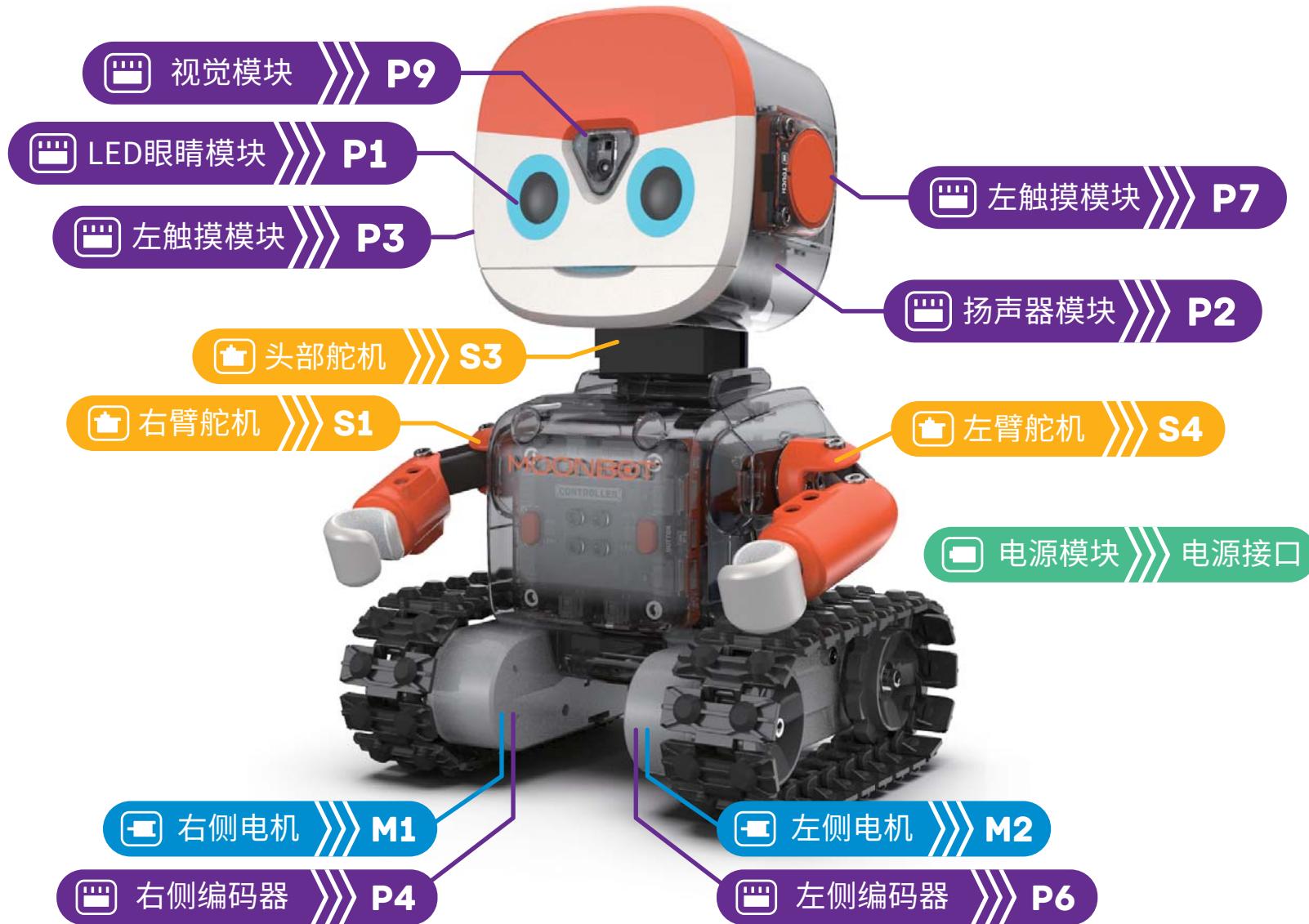


卡住下边缘



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MoonBot机器人才能正常工作



快速畅玩

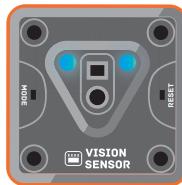
① 短按电源按键



② 按下主控上按键A，此时两颗灯亮起蓝光



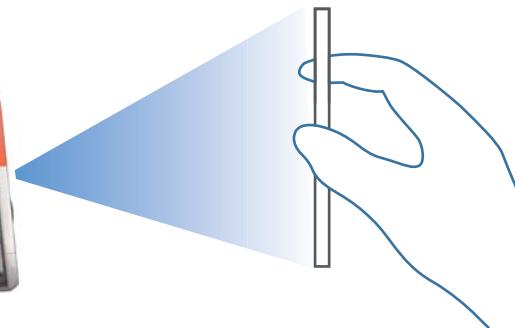
③ 使用以下视觉卡片在视觉模块正前方，以此来控制
MoonBot机器人



蓝灯闪烁——识别到目标



红灯闪烁——未识别到目标



Traffic.Turn around
Label 1



Traffic.Park
Label 2

Traffic.Forward
Label 3

Traffic.Left
Label 4

Traffic.Right
Label 5

发现更多精彩

扫一扫进入支持文档 > MoonBot Kit 扩展形态

