

产品安装手册

**ROBOTO
-origin**

上海萝博派对科技有限公司 roboparty.cn

Note..

.....,Lower.....

1.Front.....

安全事项；如未遵守可能导致财产损失或安全隐患。使用本产品即表示您已

.....Pcs.....Operation.....

..Rear.....

2.18..Lower.....

.....MiddleOperation.....

3. 本产品不宜在人员密集区域使用，使用时需确保人员与机器距离保持在1

m...Outer....Operation.....

任。

4. ...Design.....Middle.....
腿离地。

5.Lower.....

因此类情况造成的设备问题，萝博派对不承担任何责任。

6.PcsLower....Pcs....Battery.....

产品质量问题，萝博派对不对此承担责任。

7. 本产品禁止用于任何危害国家安全的活动，包括但不限于恐怖主义支持、
.....Design.....

8. 您确认您未受任何贸易限制或制裁措施的影响，否则可能无法正常使用
萝博派对系列产品及服务。

9.Inner.....

...Note....Requirement.

10. 您需遵守适用地区的出口管制法律法规。

11.Pcs.....

12.Adjust.....

1. 工作台管理

- Zone...

LeftSide..Assembly.....Front.....

Middle.....Clean..

RightSide.../.....

- 异物防范:

.....Upper.....Hand.....

.....Inner.....

2.Standard

- ...Hand.....Pcs.....

- ..Hand.....

- 束发/着装强制执行: 长发必须盘起并塞入工帽; 严禁佩戴悬挂式首饰
....Hand.....

3. 核心安全作业规程

3.1 .Battery..Operation

.....degree.Battery..Operation.....

跌落处置:

..Battery.....degree> 30cm.....
次装机使用。

.....Upper...../.....

...Middle...24 ...

短路预防:

Battery.....Front.....
严禁裸露正负极。

.....Lower.....Screw...Battery...

3.2Operation

.....Joint..Install....Replace.....Lower....
....Lower...
.....Hand.....Hand...Joint.....Limit..Inner...Joint
.....Hand.....

3. 3 化学品使用安全

.....3-4PlasticPcs

...Plastic.....

废弃物处理: 沾染化学品的无尘布、棉签属于**危险废弃物**, 必须丢弃至专门的黄色危废垃圾桶, 严禁混入**普通垃圾**。

3. 4 紧急响应流程

当发生异常情况(冒烟、起火、异响、人员受伤)时, 严格遵循

.....Upper... ...

1.Battery/.....

Step.....Lower.....

Step.....>3m.....

Step.....

大火: 立即拨打火警电话并撤离车间。

1.1 产品简介

Roboto-origin是一款面向科研、教育以及部分展演场景的人形机器人平台，其

.....Design....Pcs....degree.....

.....JointAssembly.....

机器人整体身高为1.25m.....Inner.....

.....Front-Lower..... Roboto-origin仍在不断进行质量与体重的拓扑

.....Pcs.. CNC.ShaftMachining.Outer.....

.....Assembly.....Outer-Material...Rubber.....

增强了人机互动时的亲和感，也提升了抗冲击性能与使用安全性。作为一个全栈开源的机器人平台，Roboto-origin致力于降低研发门槛，推动机器人技术

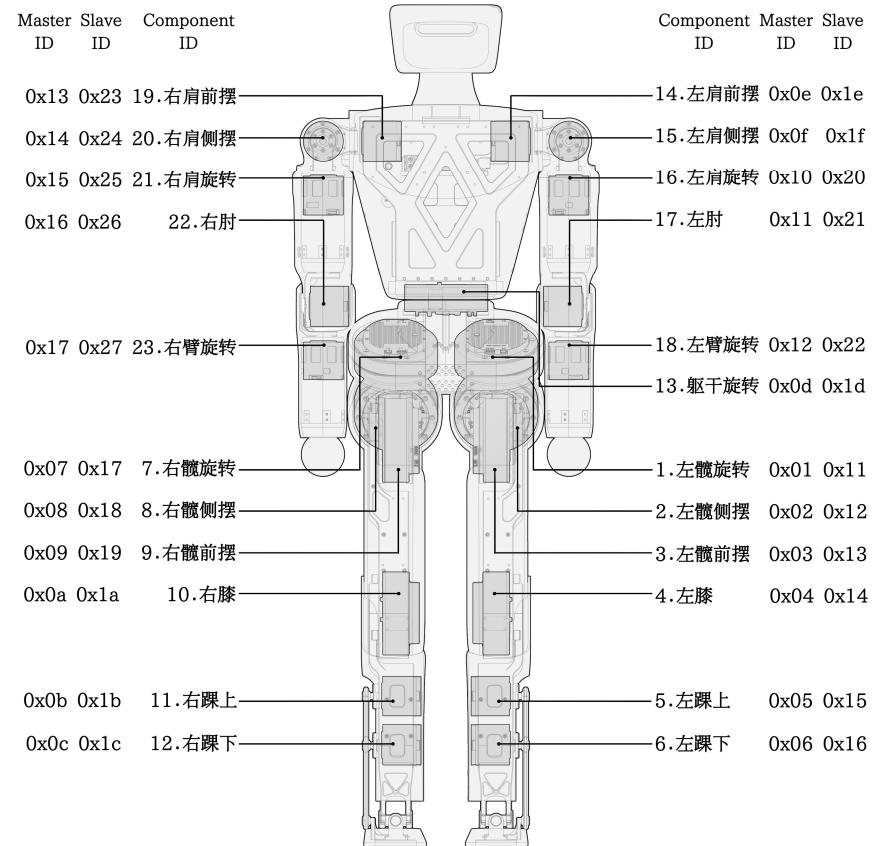
.....Middle.....

1.2Parameter



| | |
|------------------|--|
| 身高 | 1.25m |
| 体重 | 34kg |
| Thigh-degree | 400mm |
| Lower Leg-degree | 400mm |
| Hand-degree | 685mm |
| Battery.. | 48V 架构, 15Ah |
|degree.. | Intel D435i ..degree..... |
| 3D 激光雷达 | 速腾聚创 E1R (可选配) |
|Joint.... | 120Nm |
| Hand-Joint.... | 27Nm |
| 编码器 | 14位编码器 |
| 线缆布局 | ..Inner.. |
| 计算模块 | ..Inner.1 .. |
|degree | 2m/s (潜在性能可达 4m/s) |
|degree | Hip Joint3-Knee Joint1-Ankle Joint2. |
| ..Hand..degree | Shoulder Joint2-Elbow Joint2..Joint1.. |
| JointMotor.. | ..Motor....10010L-4340P.. |

2.1 ...Pcs...



注： 图片仅供参考，请以实物为准。

2.2 .Pcs..

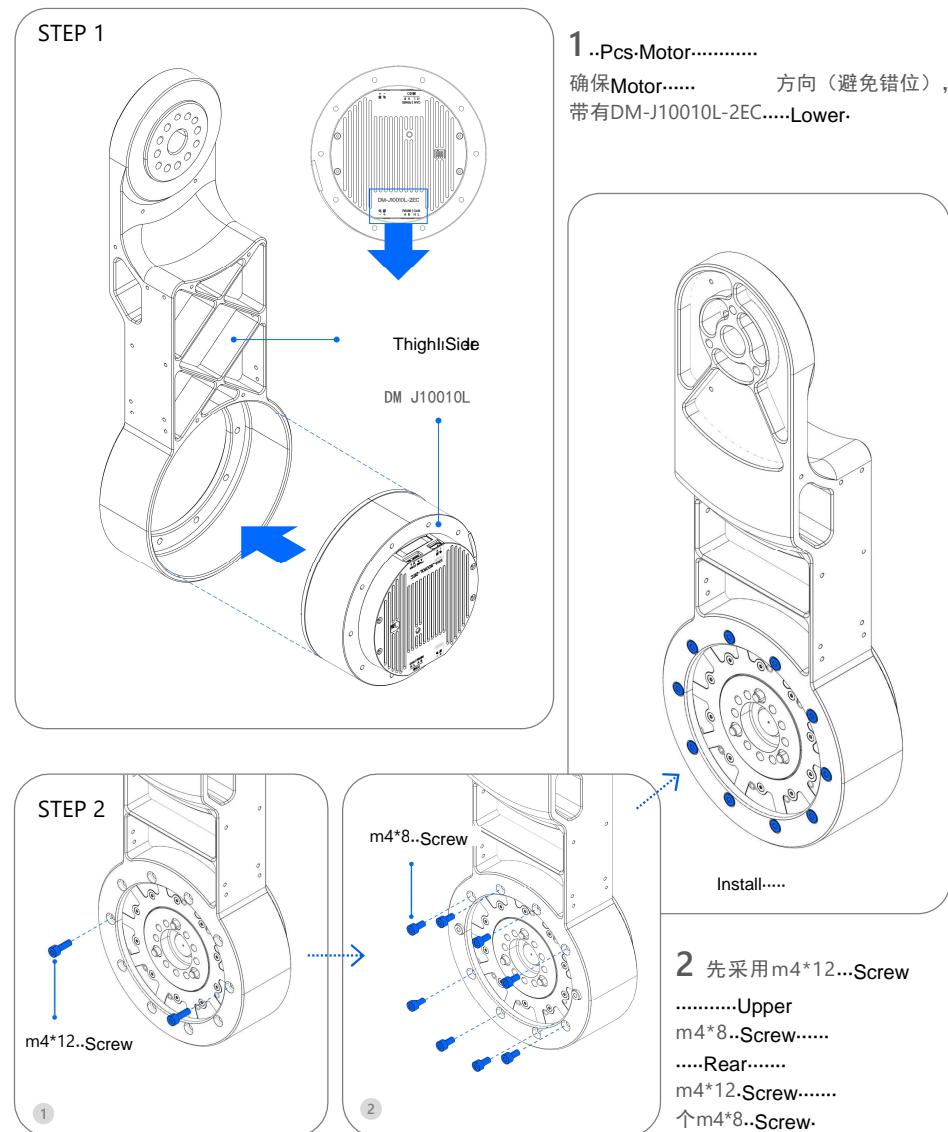
| ..Alnner...MachiningPcs | | | | |
|-------------------------|-------------|----------------------------|---|-----|
| 1 | ATOM-01-001 | atomHand-- ..(1) | 4 | pcs |
| 2 | ATOM-01-002 | atomHand-- ..(2) | 4 | pcs |
| 3 | ATOM-01-003 | atomHand-- ..(3) | 4 | pcs |
| 4 | ATOM-01-004 | atomHand-- ..(4) | 4 | pcs |
| 5 | ATOM-01-005 | IMUCarrier Board | 1 | pcs |
| 6 | ATOM-01-006 | Side... | 2 | pcs |
| 7 | ATOM-01-007 | ThighInnerSide | 2 | pcs |
| 8 | ATOM-01-008 | BatteryBottom- | 1 | pcs |
| 9 | ATOM-01-009 | 肩膀 | 2 | pcs |
| 10 | ATOM-01-010 | FootBottom- | 2 | pcs |
| 11 | ATOM-01-011 | FootBottomLink | 2 | pcs |
| 12 | ATOM-01-012 | Foot....Pcs | 4 | pcs |
| 13 | ATOM-01-013 | Hip JointMounting | 1 | pcs |
| 14 | ATOM-01-014 | 新髋 | 2 | pcs |
| 15 | ATOM-01-015 | .Clamp Plate | 2 | pcs |
| 16 | ATOM-01-016 | OutputFlangeLink | 4 | pcs |
| 17 | ATOM-01-017 |Pcs | 4 | pcs |
| 18 | ATOM-01-018 |PcsEnlarged HoleFlange | 4 | pcs |
| 19 | ATOM-01-019 | Lower Leg | 2 | pcs |
| 20 | ATOM-01-020 | ChestFrontRearClamp Plate | 2 | pcs |
| 21 | ATOM-01-021 | LimitPin | 8 | pcs |
| 22 | ATOM-01-022 | Lower LegBearing- | 4 | pcs |
| 23 | ATOM-01-023 | Waist.. | 1 | pcs |
| 24 | ATOM-01-024 | .Link | 2 | pcs |
| 25 | ATOM-01-025 | .Link | 2 | pcs |
| 26 | ATOM-01-026 | RubberFootBottom | 2 | pcs |

2.2 .Pcs..

| ..Blnner.....Joint...+Bearing+..Pcs | | | | |
|-------------------------------------|----------------|------------------------|-----|-----|
| 27 | ATOM-01-033 | DM 4340P (48V) | 14 | pcs |
| 28 | ATOM-01-034 | DM J10010L | 9 | pcs |
| 29 | GB/T 276-2013 | ...Bearing130*165*18 | 1 | pcs |
| 30 | GB/T 9161-2001 | ..Joint Bearing-G...8 | 8 | pcs |
| 31 | GB/T 4605-2003 |PcsAXK6085 | 9 | pcs |
| 32 | JB/T 8925-2008 | Universal...Shaft16x40 | 2 | pcs |
| 33 | GB/T 70.1-2000 | Inner....ScrewM2.5x8 | 8 | Pcs |
| 34 | GB/T 70.1-2000 | Inner....ScrewM3x6 | 12 | pcs |
| 35 | GB/T 70.1-2000 | Inner....ScrewM3x8 | 58 | pcs |
| 36 | GB/T 70.1-2000 | Inner....ScrewM3x10 | 76 | pcs |
| 37 | GB/T 70.1-2000 | Inner....ScrewM3x12 | 24 | pcs |
| 38 | GB/T 70.1-2000 | Inner....ScrewM3x16 | 75 | pcs |
| 39 | GB/T 70.1-2000 | Inner....ScrewM4x8 | 109 | pcs |
| 40 | GB/T 70.1-2000 | Inner....ScrewM4x10 | 72 | pcs |
| 41 | GB/T 70.1-2000 | Inner....ScrewM4x12 | 94 | pcs |
| 42 | GB/T 70.1-2000 | Inner....ScrewM4x14 | 2 | pcs |
| 43 | GB/T 70.1-2000 | Inner....ScrewM5x10 | 84 | pcs |
| 44 | GB/T 70.1-2000 | Inner....ScrewM5x12 | 28 | pcs |
| 45 | GB/T 70.3-2008 | Inner....ScrewM6x12 | 2 | pcs |
| 46 | GB/T 825-1988 | ..ScrewM3 | 4 | pcs |
| 47 | 紧.Pcs | ..ScrewM4x12 | 16 | Pcs |
| 48 | 紧.Pcs | ..ScrewM5x16 | 14 | pcs |

2.3 InstallStep

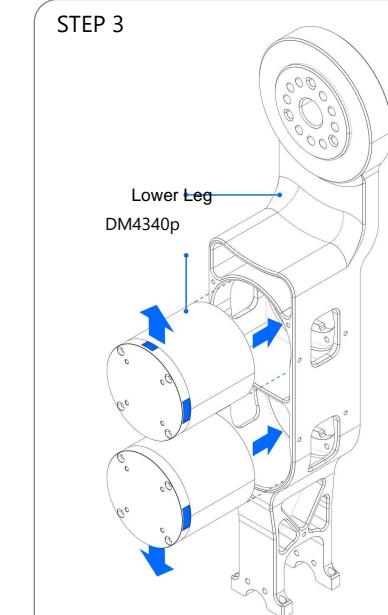
--InstallInstructions



注： 图片仅供参考，请以实物为准。

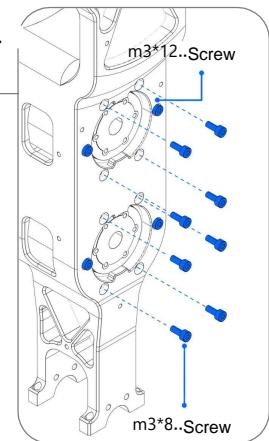
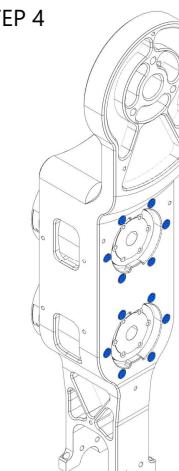
2.3 InstallStep

STEP 3



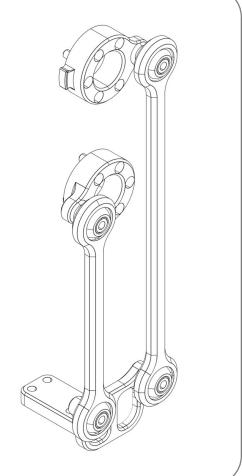
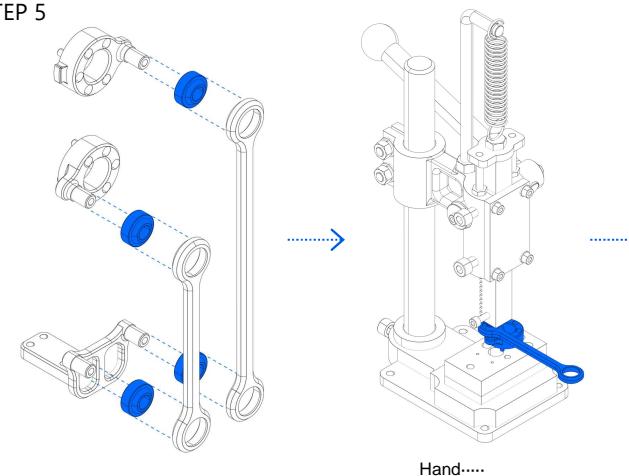
3 将DM4340p..Lower Leg...
.....UpperLower...

STEP 4



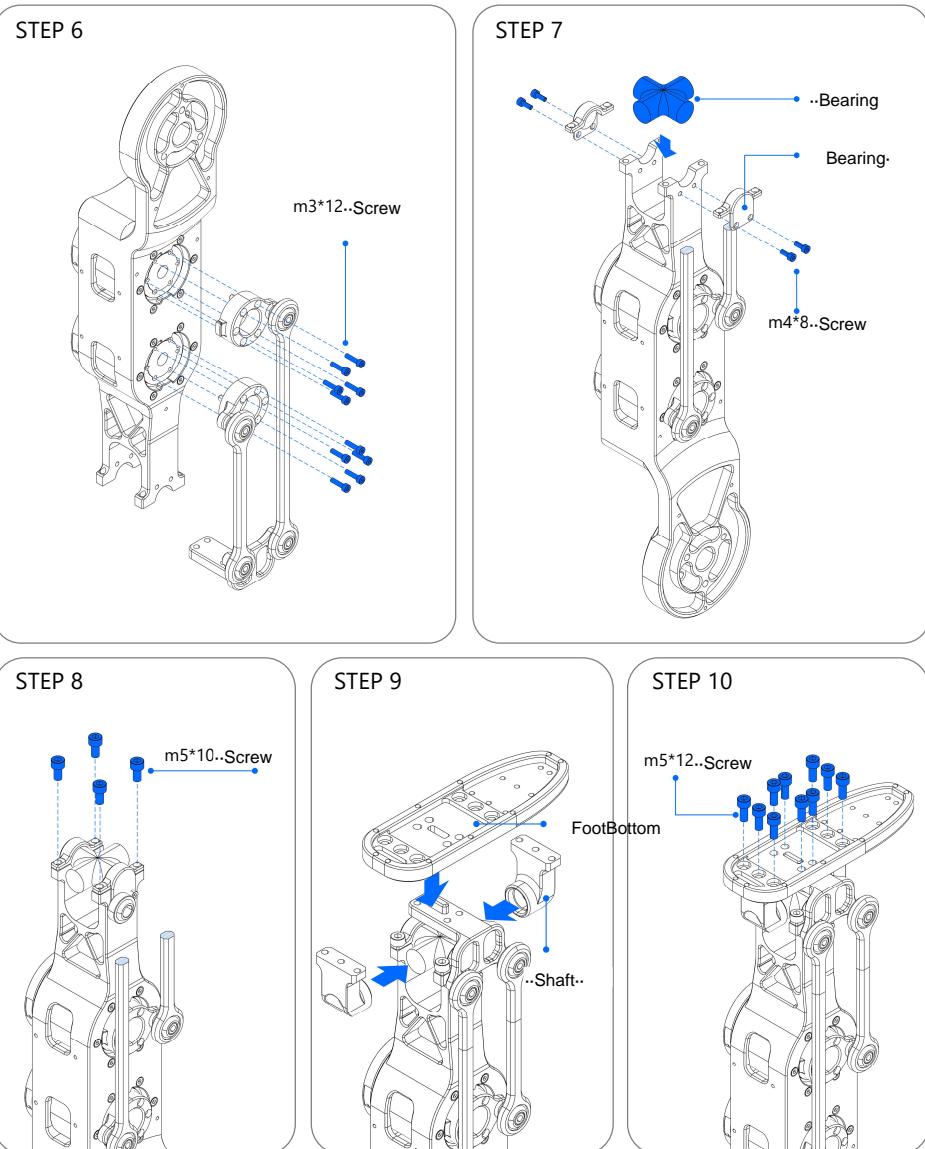
4 ..Rear..
入m3*8杯头螺
....No.
....Assembly.
....Rear..
线打法）。

STEP 5

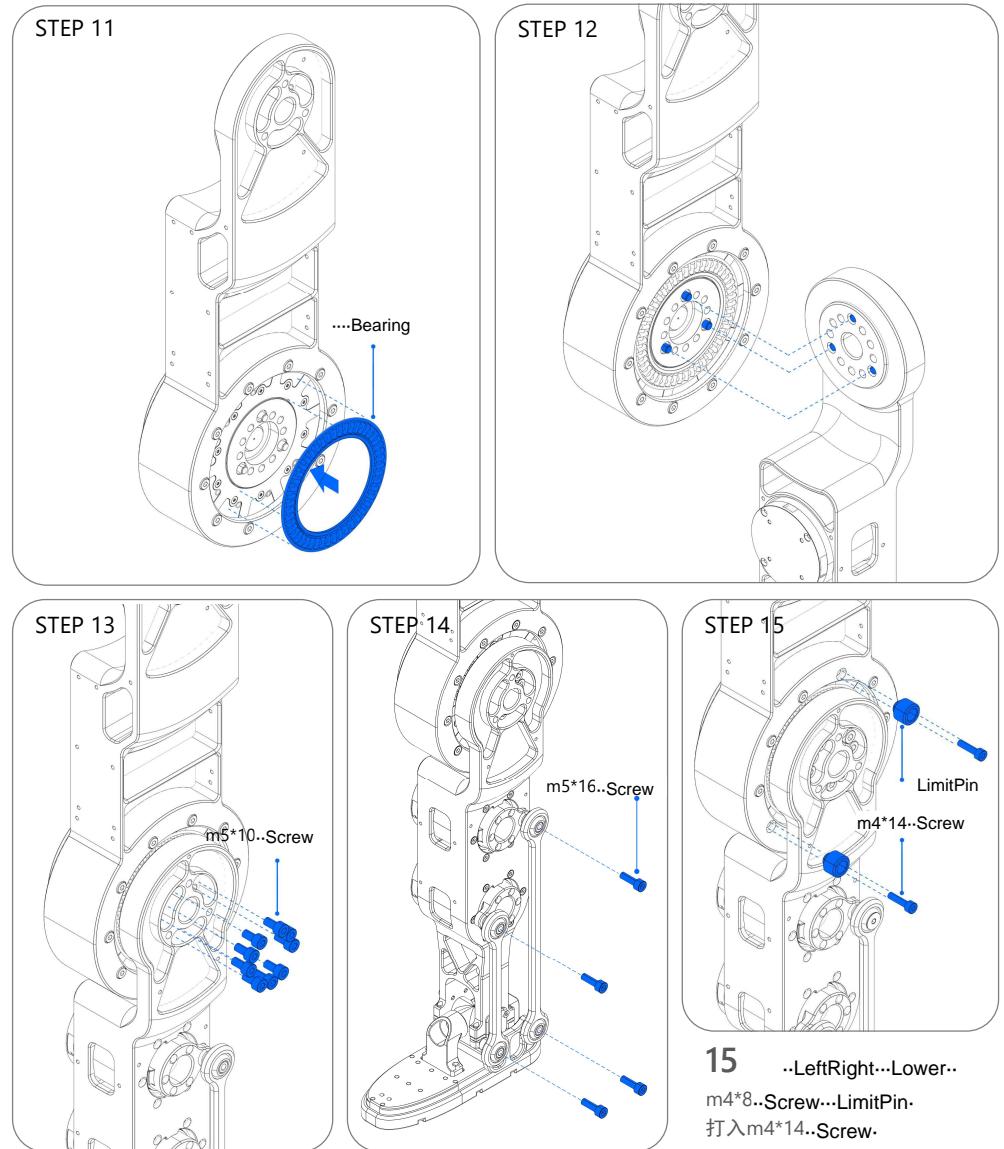


5 ..Hand...JointBearing..Link..Link..FootBottomLink..OutputFlangeLink...Hand.....Bottom...

2.3 InstallStep



2.3 InstallStep

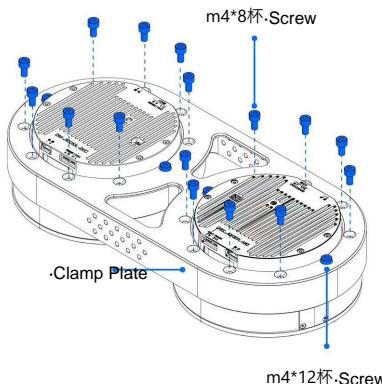


*Install..Side....Side..Install..Rear.....Lower.....LeftRight..Pcs.....

2.3 InstallStep

..InstallInstructions

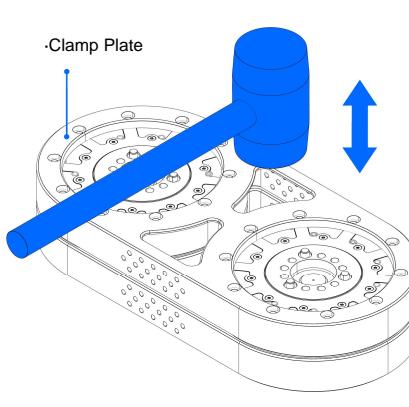
STEP 16



16 将DM-J10010L..Clamp Plate.....

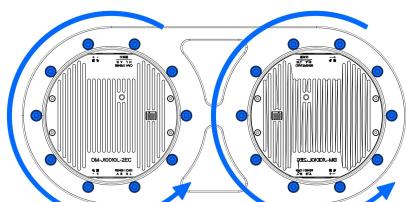
确保Motor..... 方向（避免错位），采
....Install m4*8..Screw.

STEP 18



18 Install...Clamp Plate.....Clamp Plate-
直到处处声音变沉。

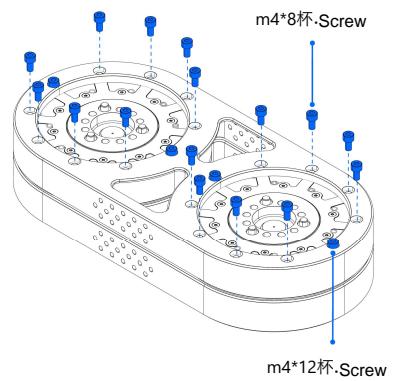
STEP 17



17ScrewUpper-Rear...Screw-

..Adjust.....Screw
(至少两个循环)。

STEP 19

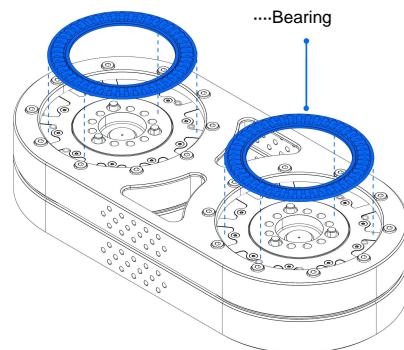


19Install

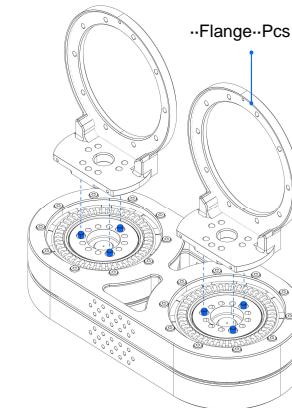
m4*8..Screw.

2.3 InstallStep

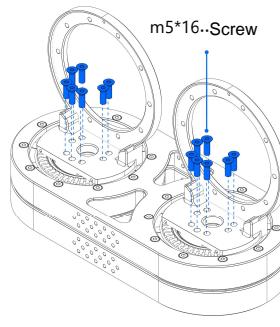
STEP 20



STEP 21

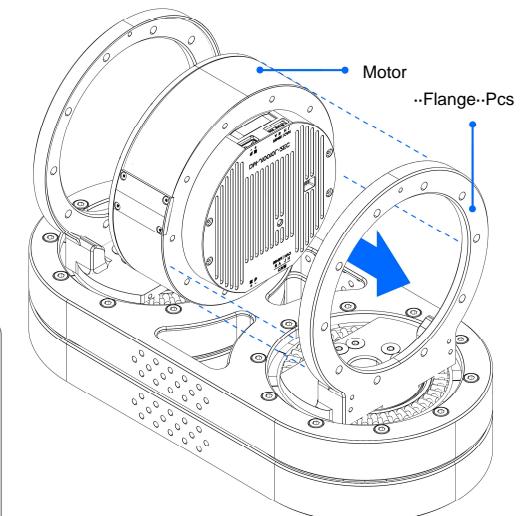


STEP 22



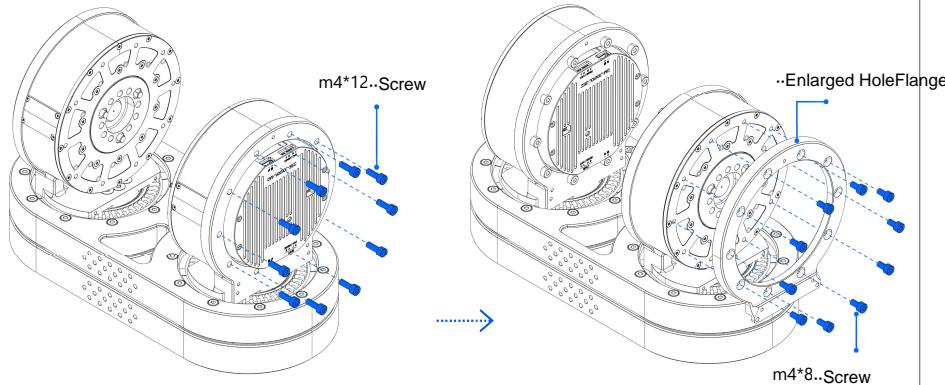
..Motor
方向如图

STEP 23

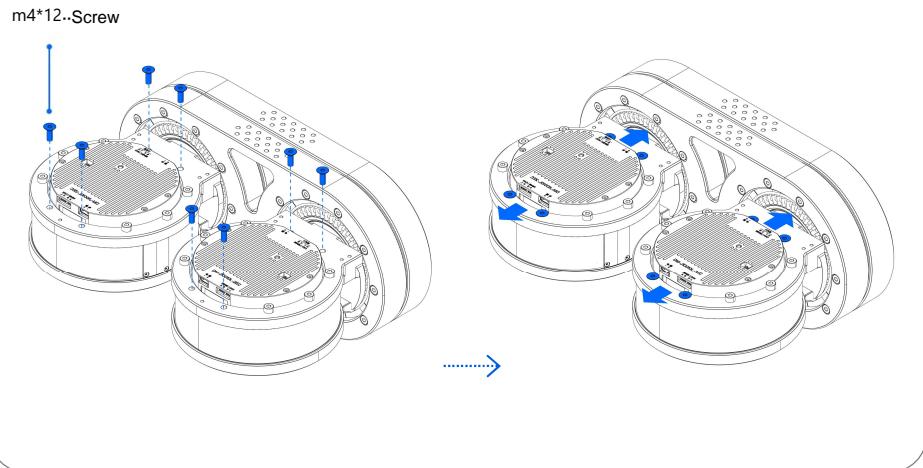


2.3 InstallStep

STEP 24



STEP 25

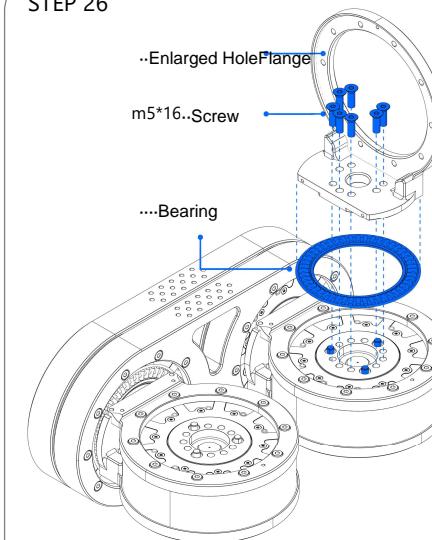


25 ..Motor.....Screw...

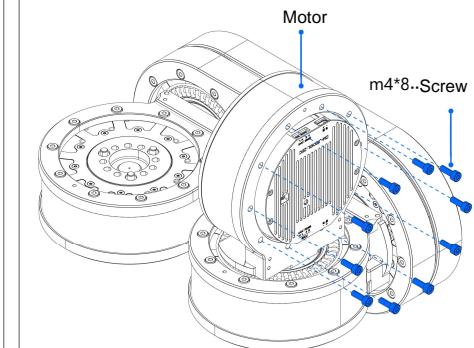
m4*12..Screw.....

2.3 InstallStep

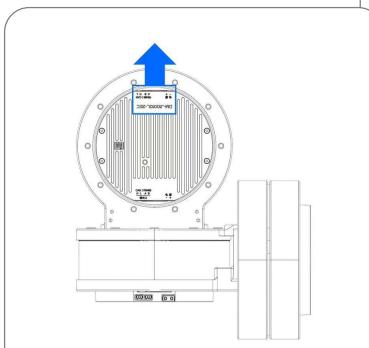
STEP 26



STEP 27



..Motor.....

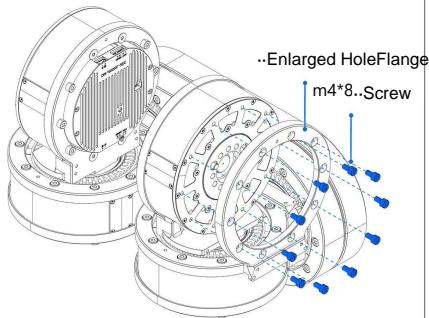


28 ..Motor.....

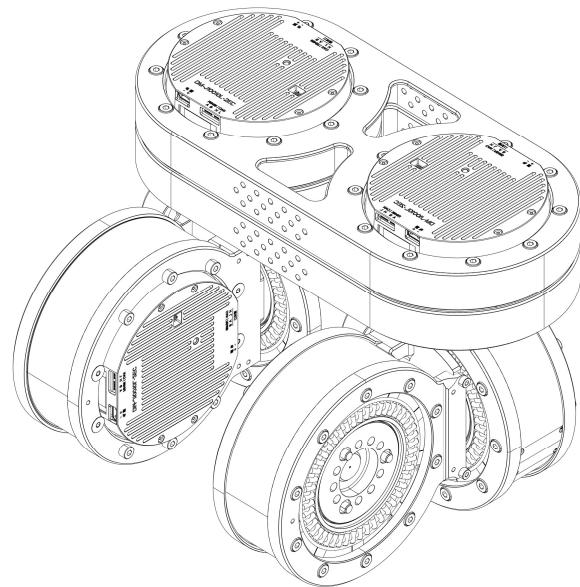
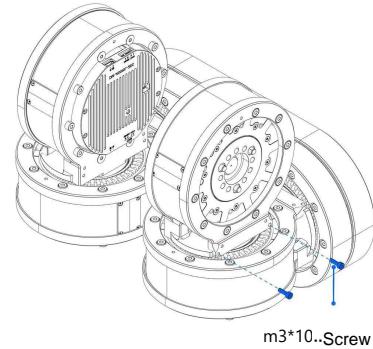
丝替换m4*12..Screw....
碍接线。

2.3 InstallStep

STEP 29



STEP 30

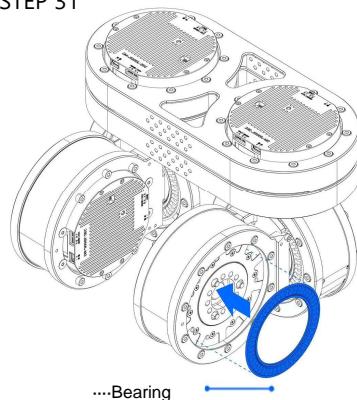


* Hip JointInstall.....

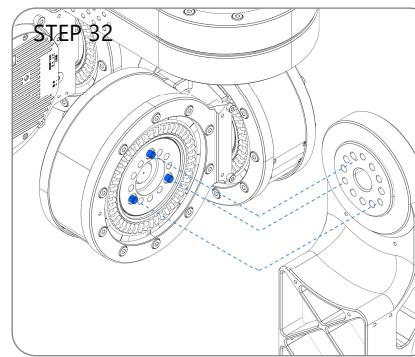
2.3 InstallStep

.....InstallInstructions

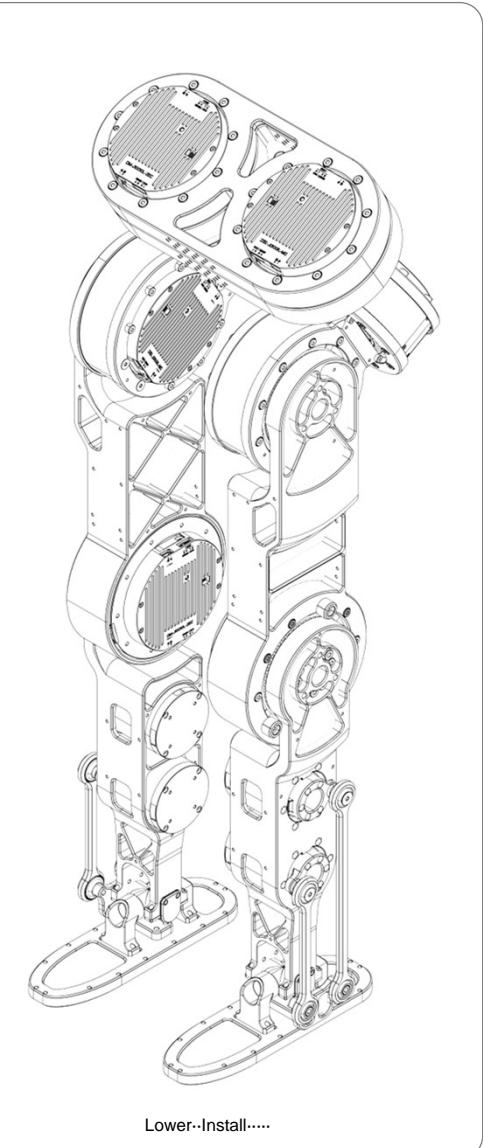
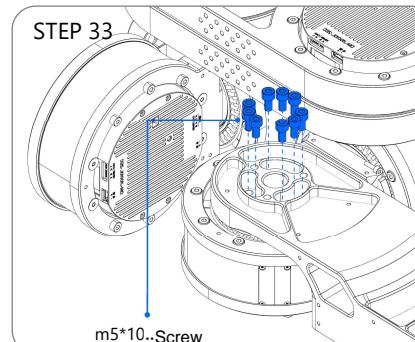
STEP 31



STEP 32



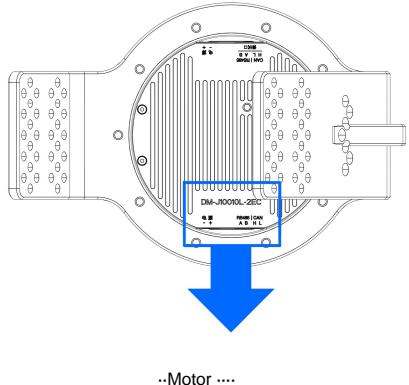
STEP 33



2.3 InstallStep

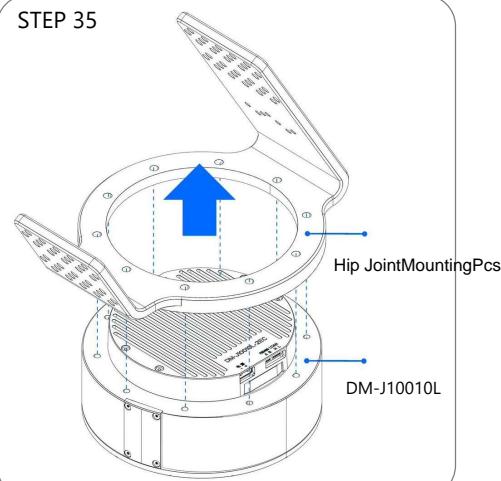
WaistInstallInstructions

STEP 34

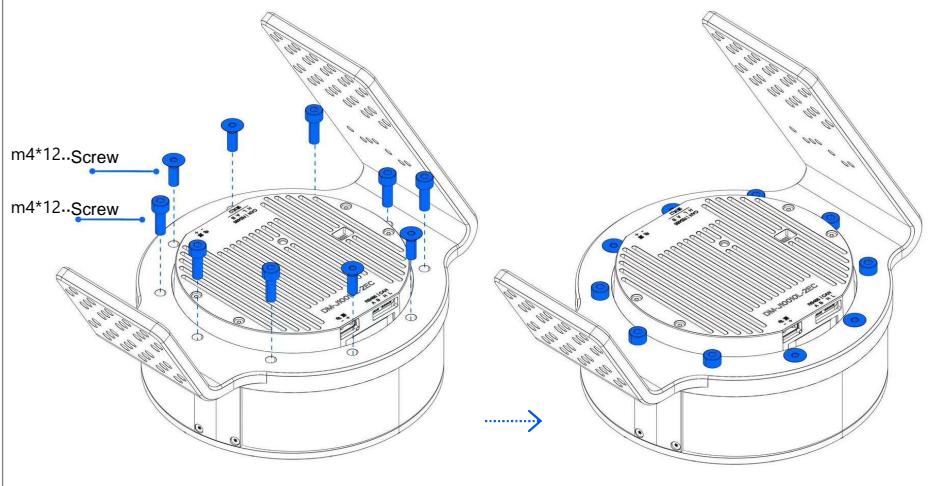


...Motor

STEP 35

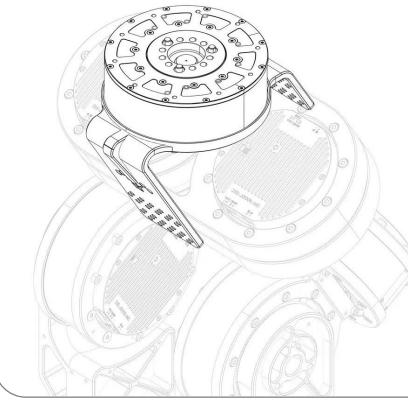


STEP 36

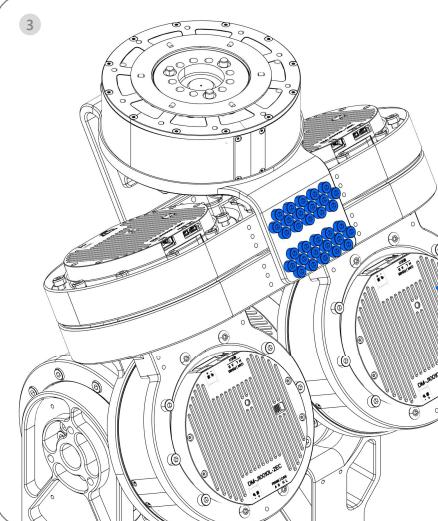


2.3 InstallStep

STEP 37



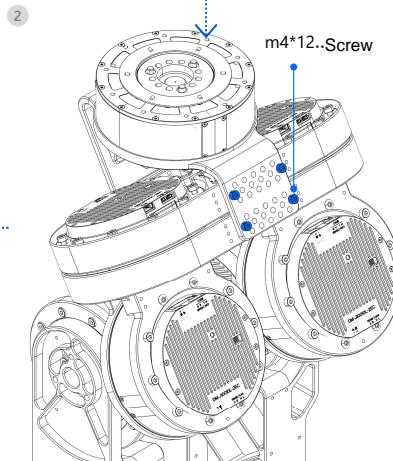
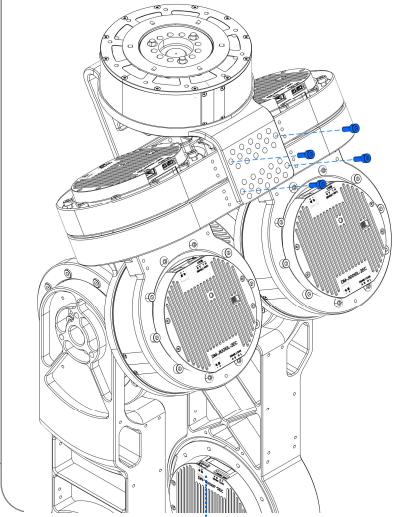
37 .Assembly...Hip JointMounting.....



38 .Rear.... m4*12..Screw-

STEP 38

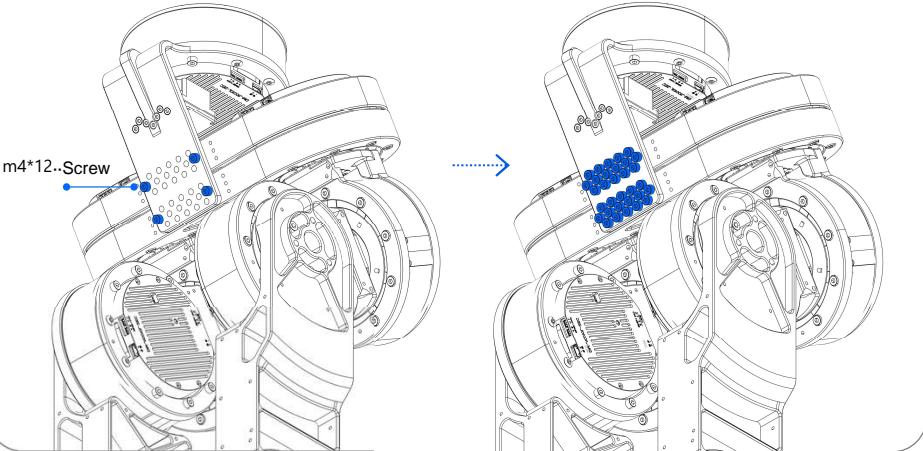
1 采用m4*12..Screw..OuterSideMounting-



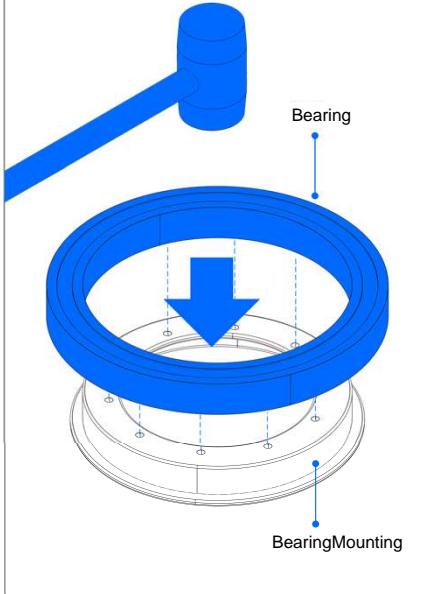
2.3 InstallStep

39 ..No.38Step-InstallFrontSide*12..Screw-

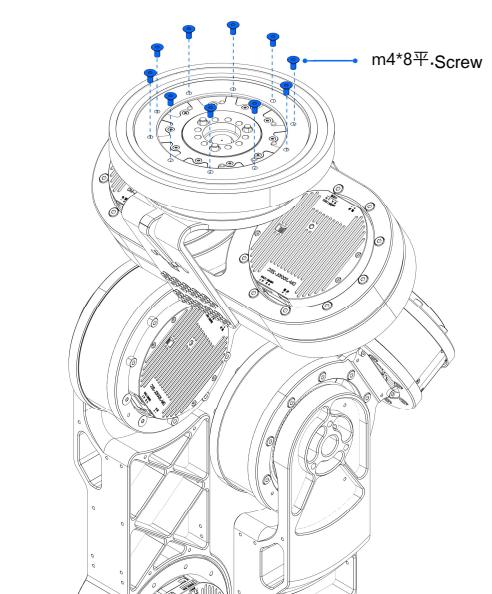
STEP 39



STEP 40

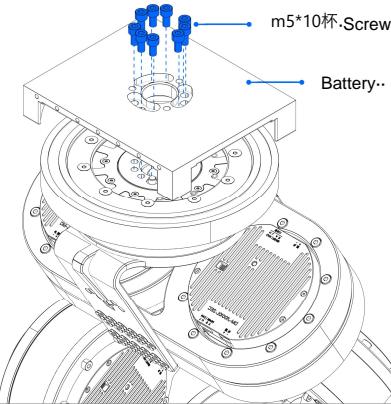


STEP 41

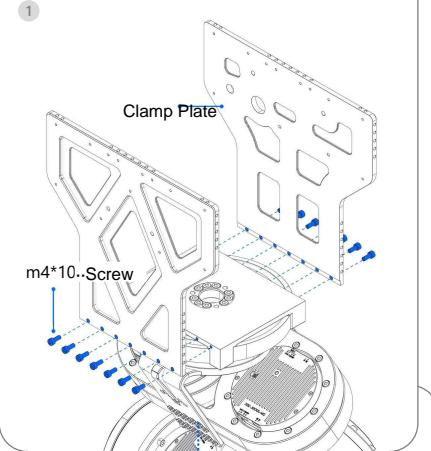


2.3 InstallStep

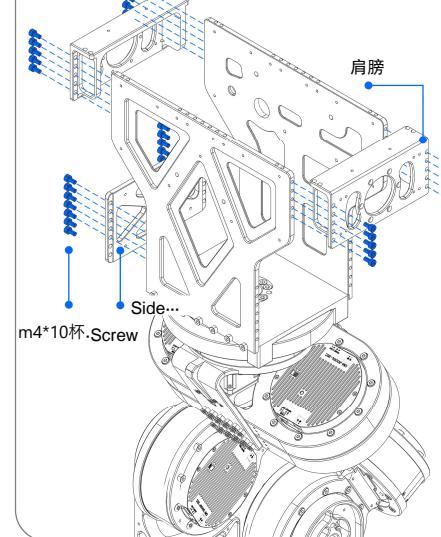
STEP 42



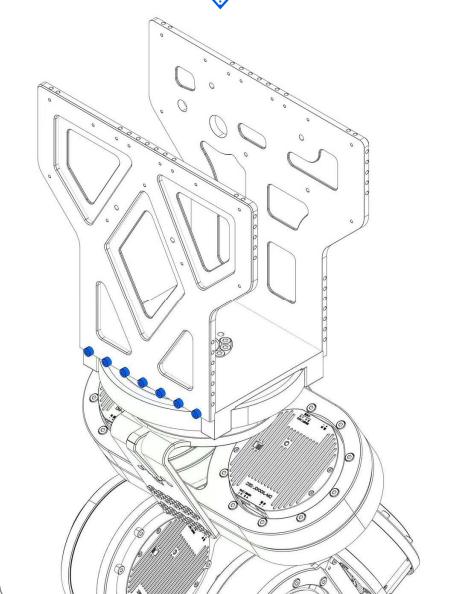
STEP 43



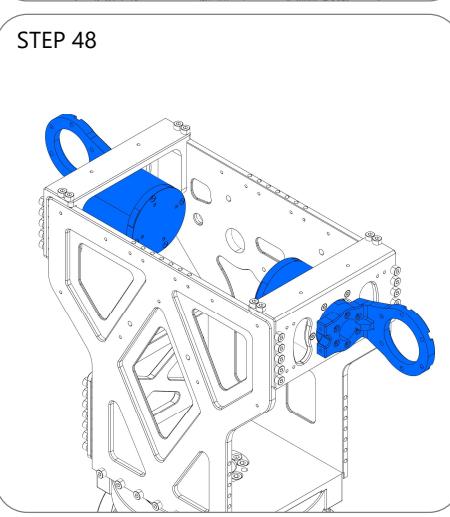
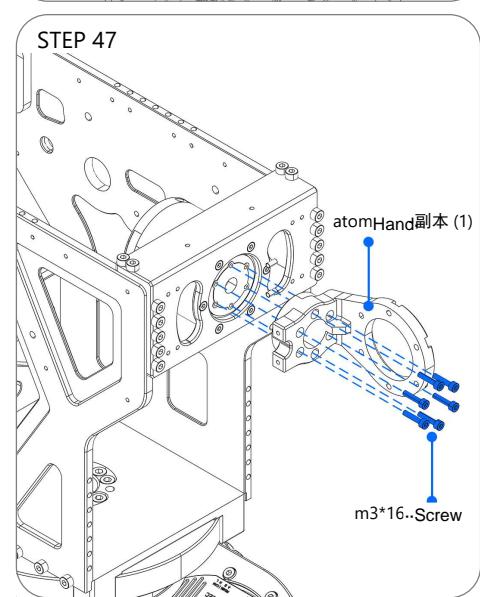
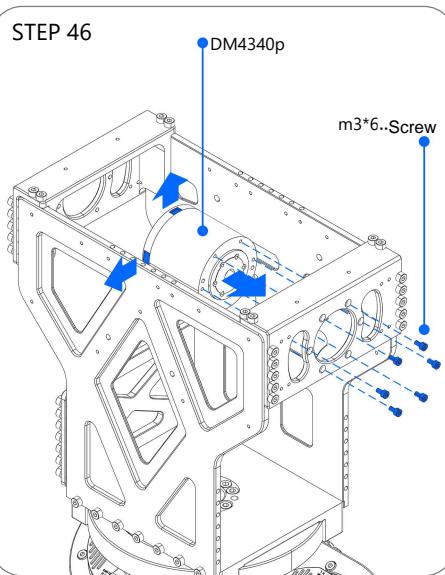
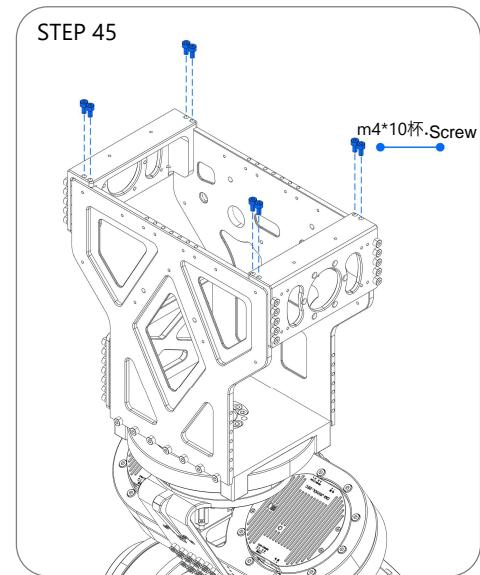
STEP 44



44 .Middle-SideSide.....Install...Rear
·InstallBattery.



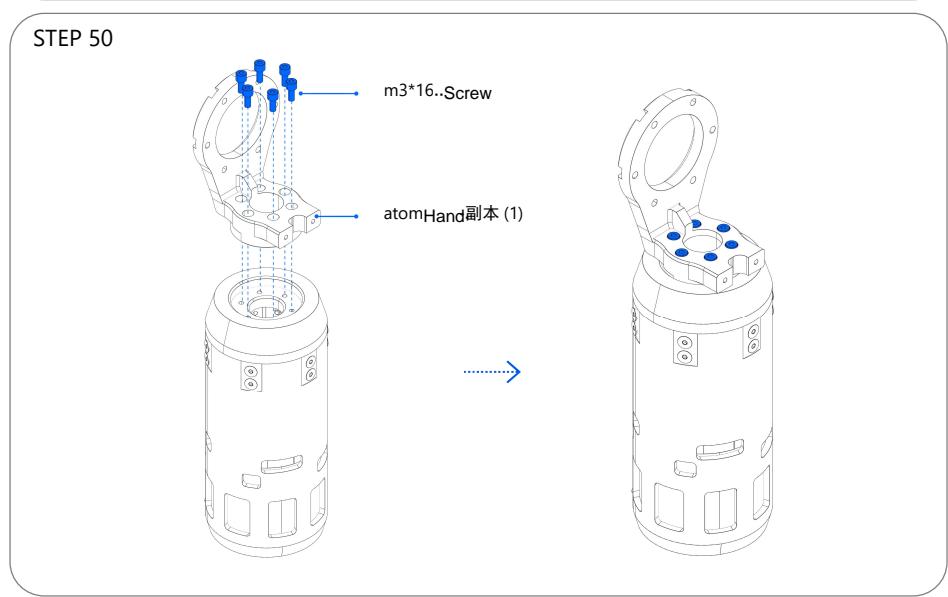
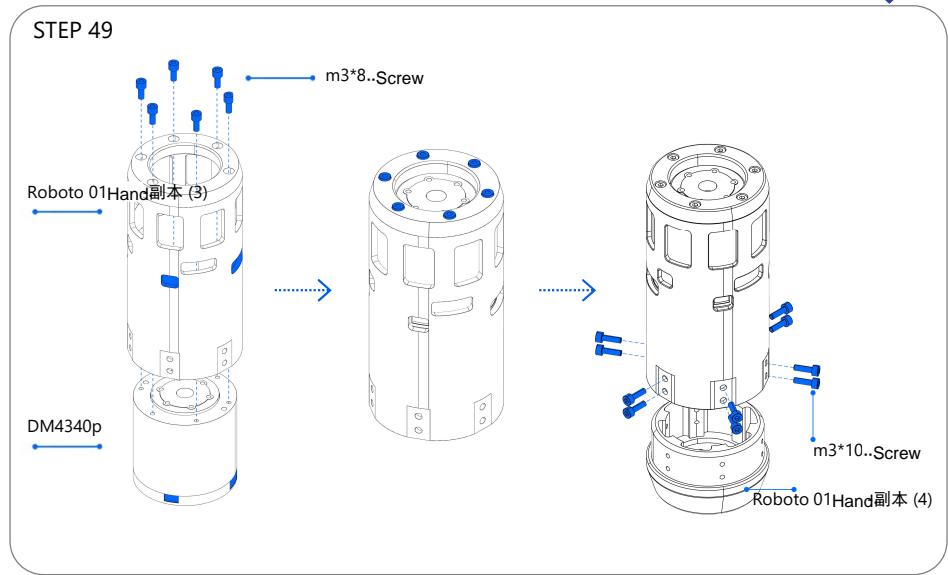
2.3 InstallStep



48 ..Upper-Step-Install-SideHand-Joint-

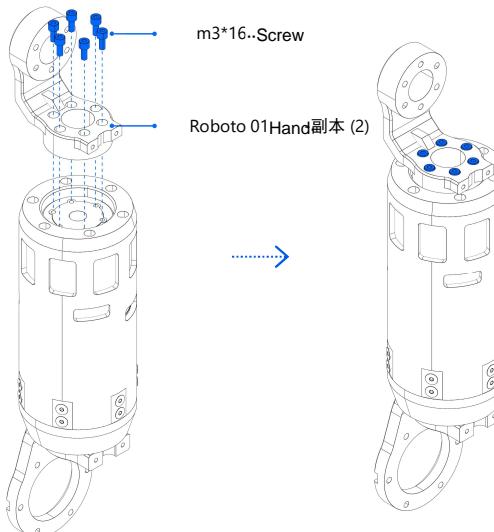
2.3 InstallStep

Hand...InstallInstructions



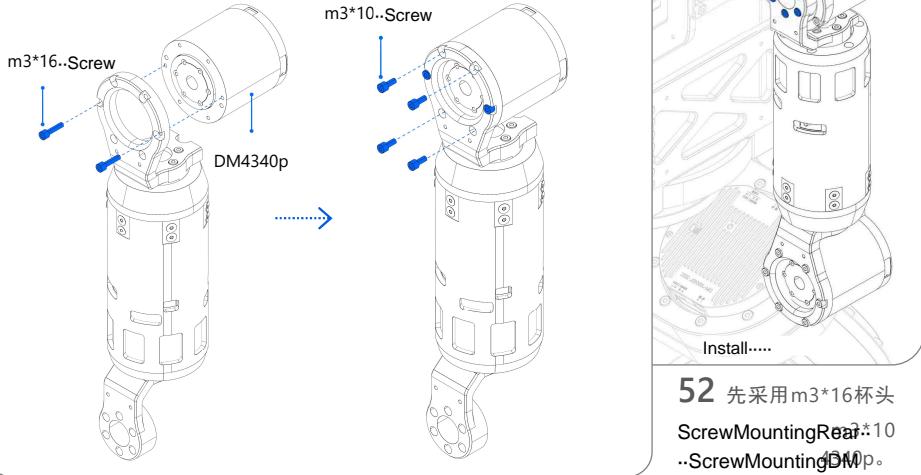
2.3 InstallStep

STEP 51



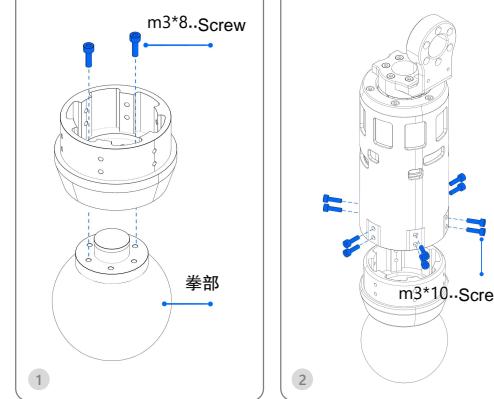
* STEP49-52Assembly-Note-Pcs...

STEP 52



2.3 InstallStep

STEP 53

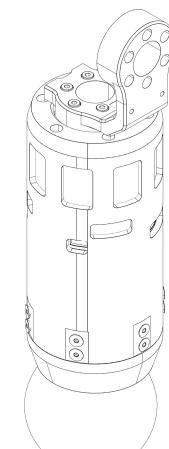


53 用m3×8..ScrewMounting...Hand...(4)..

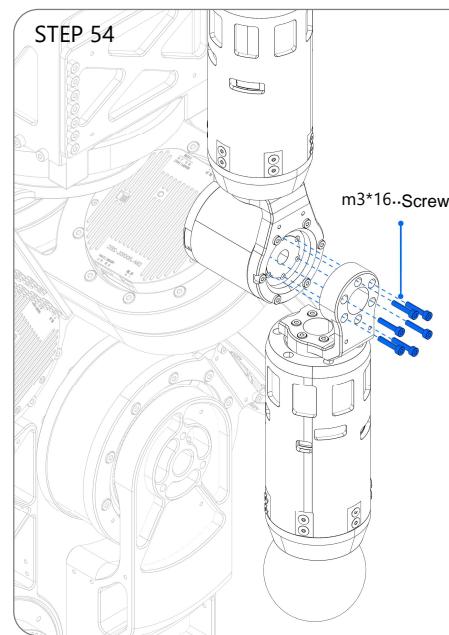
...MountingFront.....

使用m3×10..ScrewMounting..Upper..Lower..

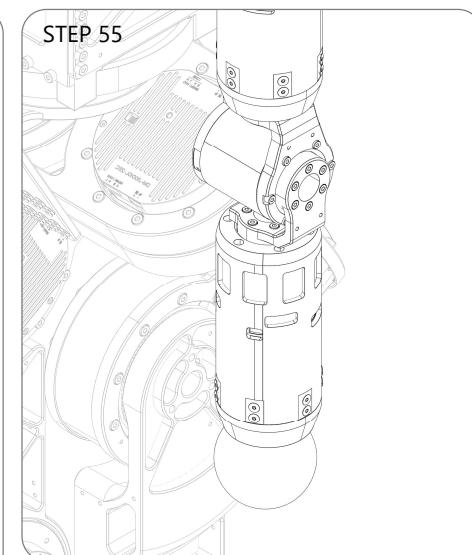
STEP 53



STEP 54



STEP 55



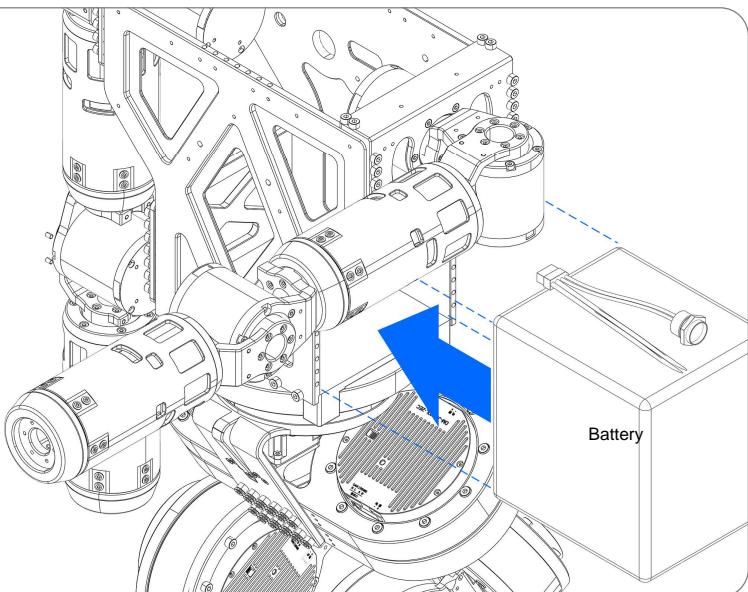
54 使用m3×16..ScrewMounting....

2.3 InstallStep

STEP 56

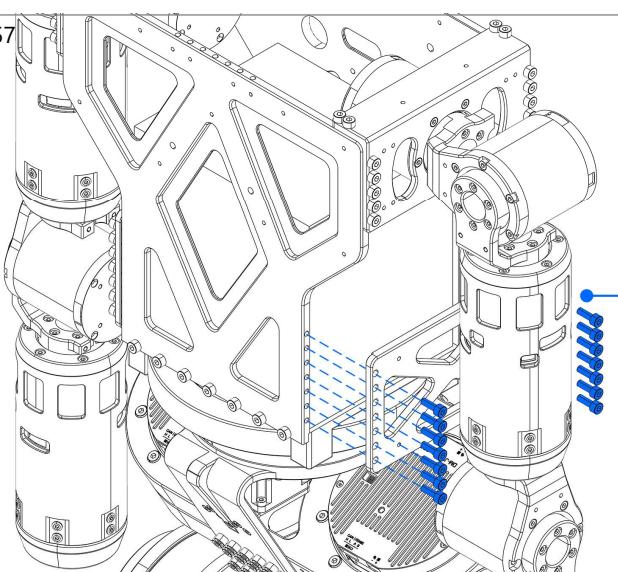
56

InstallBattery...
No.44..Side..
·InstallUpper.

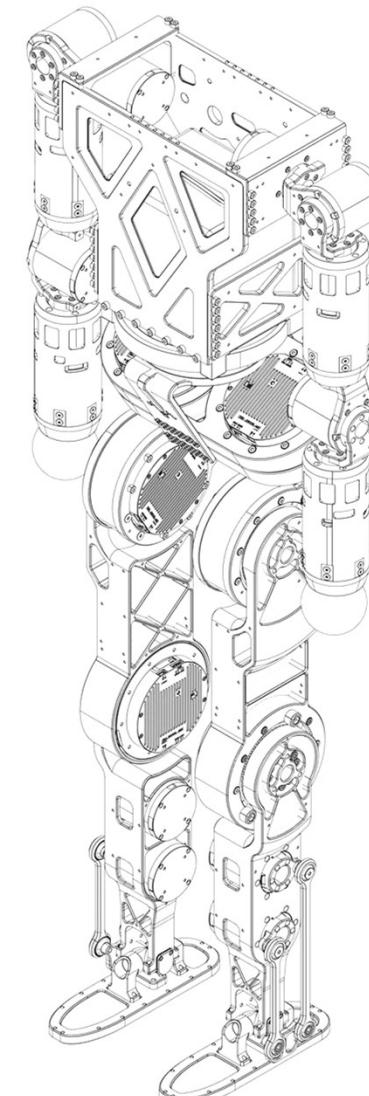


STEP 57

m4*10杯.Screw



2.3 InstallStep



Install....



小红书



抖音

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