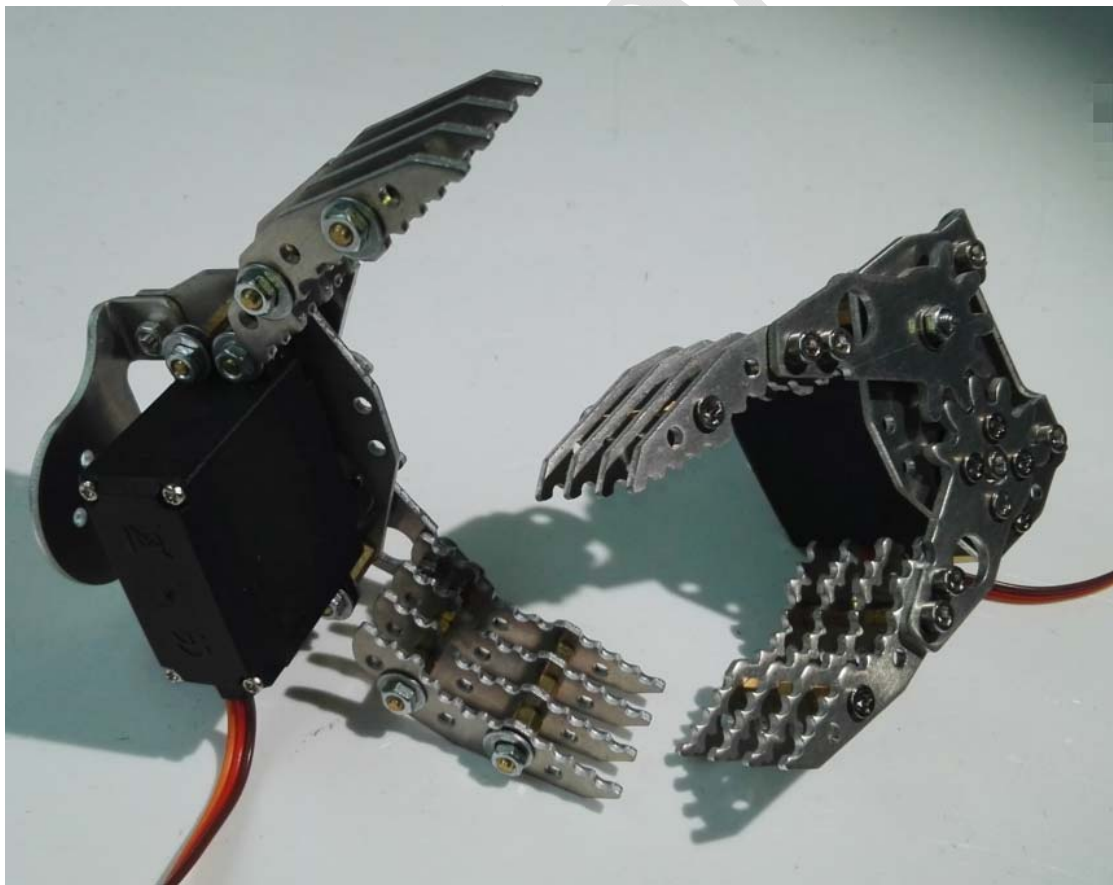




Doctors of Intelligence & Technology(DOIT)

金属爪子 G6 安装手册(V1.0)
Metal Claw G6 Installation Manual



2017-04-18



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简介 Introduction

本手册详细介绍了爪子的安装过程。This manual details the installation process of the claws.

1. 材料准备 Materials Preparation

材料一览表 Materials:

名称 Name	数量 Quantities
爪子(套装)Claw	1
MG995 servo 舵机	1
舵盘 25T servo horn	1
M3*8 hexagon screws 内六角螺丝	7
M3 nut 螺母	13
10mm single-pass couplings 单通铜柱	4
M3*6 flat head screws 平头螺丝	10
M3 gasket 垫片	16
M3*12 screws 螺丝	1
bearing 轴承	1
6mm single-pass couplings 单通铜柱	12
M3 hexagon wrench 六角扳手	1



2. 安装过程 Installation Steps

准备齐全上述构件、五金螺丝配件以及工具，进入安装环节。Prepare the above components, hardware screw fittings and tools, and enter the installation process.

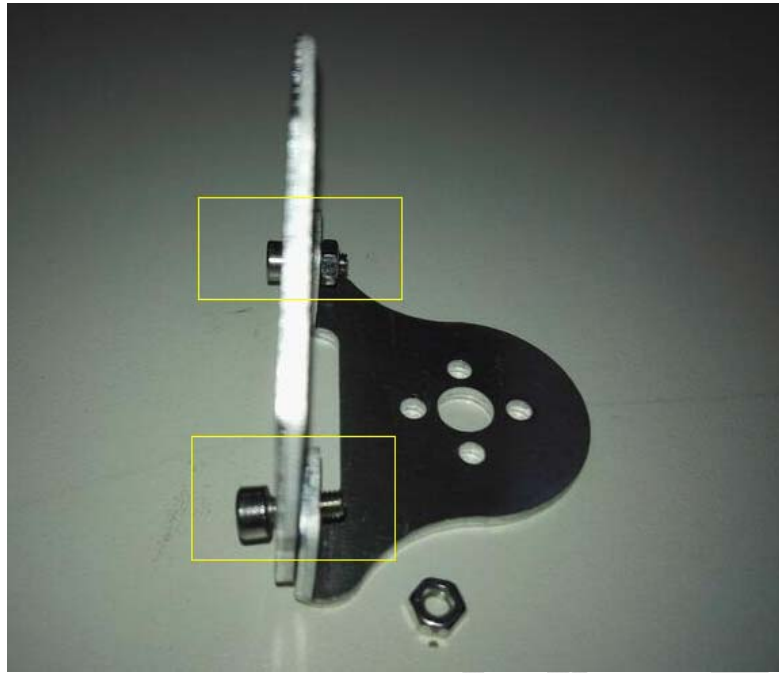
1) 安装爪子的底座 Install the base of the claw

所需材料：底座 1、底座 2、M3*8 内六角螺丝、M3 螺母；

Materials: base 1, base 2, M3*8 hexagon screws, M3 nut



如图示进行安装 Installation:



2) 安装舵机 Install the servo

所需材料：MG995 舵机、10mm 单通铜柱、M3*6 平头螺丝、M3 垫片、M3 螺母；

Materials: MG995 servo, 10mm single-pass couplings, M3*6 flat head screws, M3 gasket, M3 nut.



如图所示进行安装 Installation:



3) 底座与爪臂 1 的连接

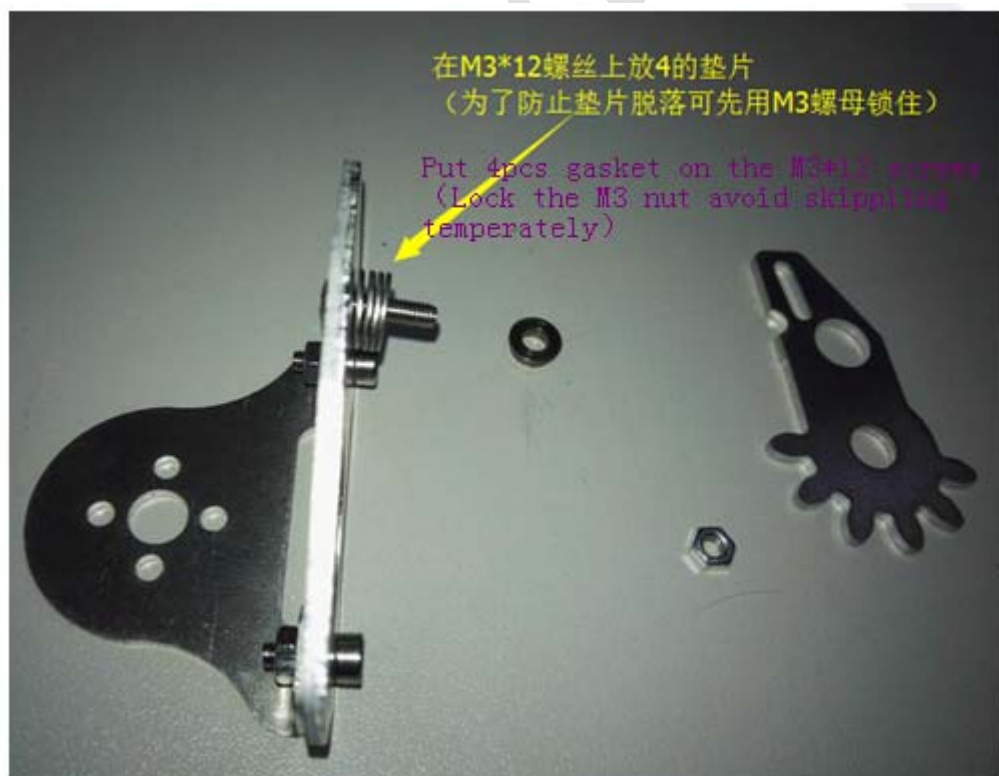
3) Connection of the base to the claw arm 1

所需材料: 底座、爪臂 1、轴承、M3*12 螺丝、M3 垫片、M3 螺母;

Materials: base, claw arm 1, bearing, M3*12 screws, M3 gasket, M3 nut.



如图示进行安装 Installation:





注意安装时，M3*12 螺丝穿过底座图示那个孔之后，放上 4 个垫片，暂时用 M3 螺母锁住，等到进行“步骤 5”时将舵机固定在底座之后再将 M3 螺母取下来然后 M3*12 螺丝穿过爪臂 1 的圆孔再用 M3 螺母固定住，详见步骤 5；

Note that when installing, after the M3*12 screw passes through the base hole, put 4 washers and temporarily lock with the M3 nut. Wait until the “Step 5” is performed to fix the servo to the base and then remove the M3 nut and then M3 *12 screw through the hole of the claw arm 1 and then fixed with the M3 nut, see step 5;

4) 安装爪臂 2 Install the claw arm 2

所需材料：爪臂 2、舵盘、M3*6 平头螺丝、M3*8 内六角螺丝；

Materials: claw arm2, 25T servo horn, M3*6 flat head screws, M3*8 hexagon screws.



如图所示进行安装 Installation:



5) 底座与舵机连接 Connection of the base to the servo

所需材料：舵机、底座、爪臂 1、M3 平头螺丝、M3 螺母；

Materials: servo, base, claw arm1, M3 flat head screws, M3 nut.



如图示进行安装 Installation:



6) 将爪臂 2 装在舵机上 Install the claw arm2 into the servo

所需材料：爪臂 2、带底座的舵机、M3*8 内六角螺丝；

Materials: claw arm2, servo with base, M3*8 hexagon screws.



如图示进行安装 Installation:



7) 组装手指 Install the finger

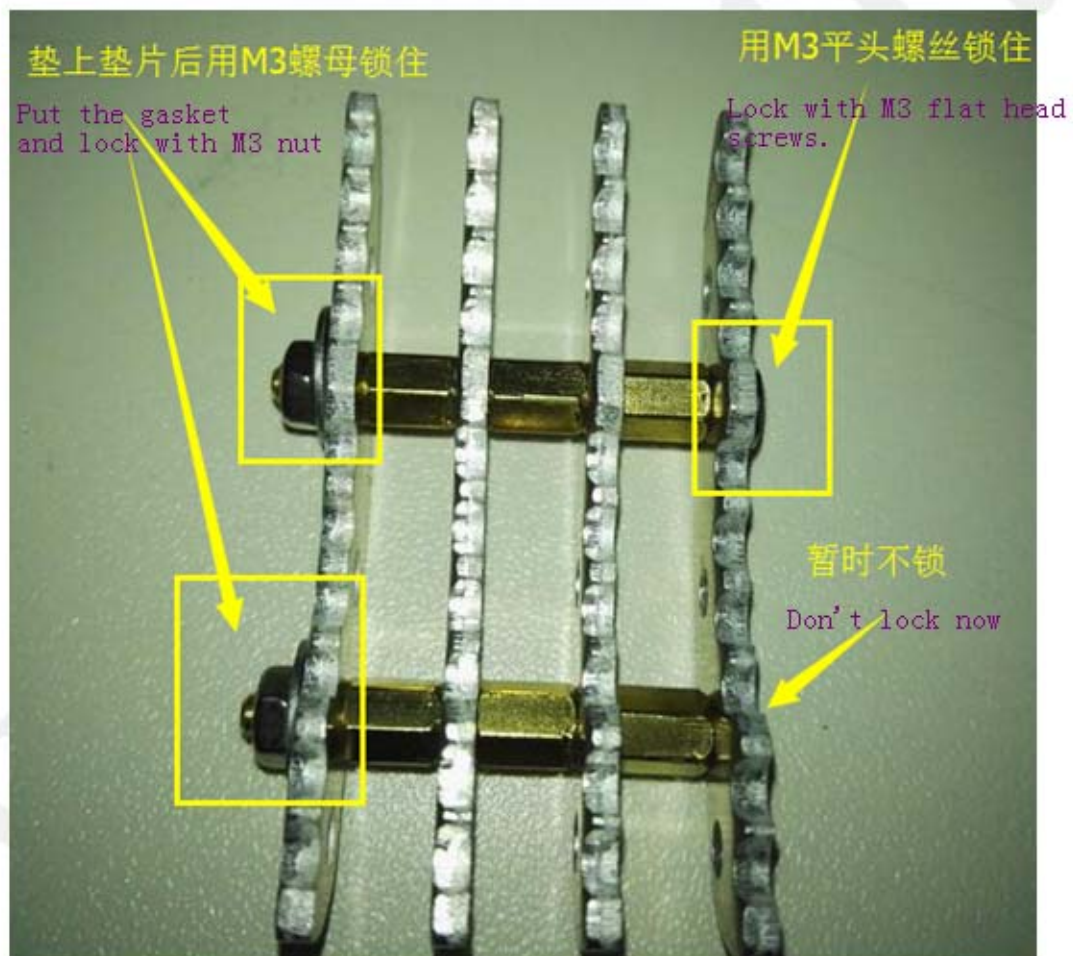
所需材料：手指、6mm 单通铜柱、M3 螺母、M3 垫片、M3 平头螺丝；

Materials: finger, 6mm single-pass couplings, M3 nut, M3 gasket, M3 flat head screws.



如图示进行安装 Installation:





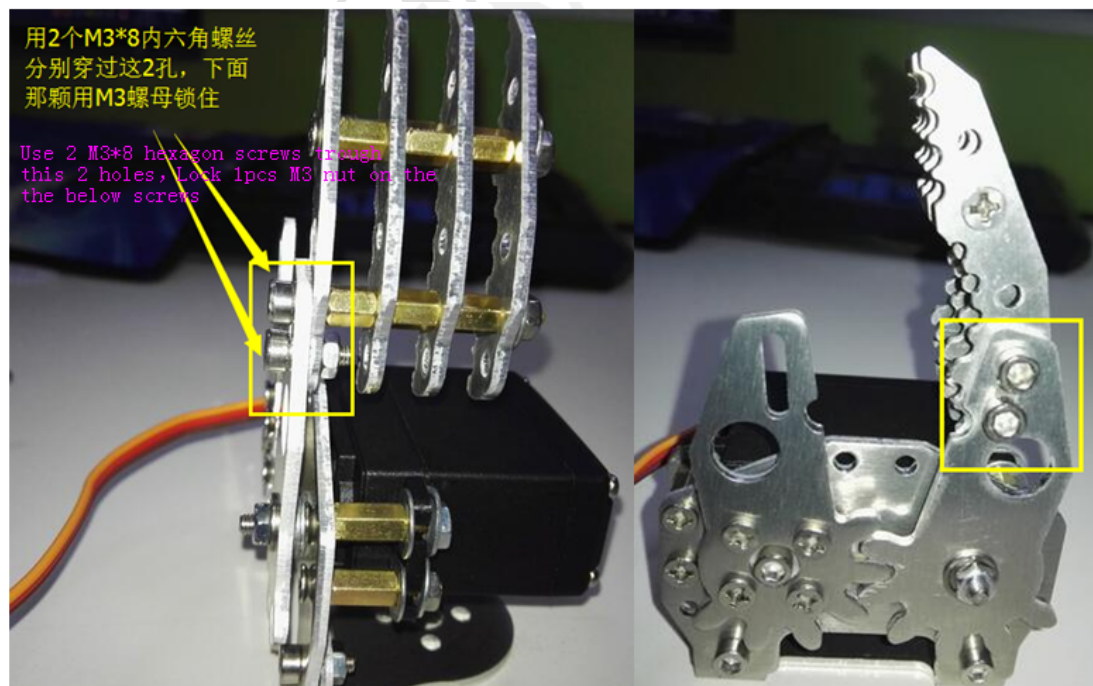
8) 将手指装在爪臂上 Install the finger on the claw arm.

所需材料：带爪臂和底座的舵机、手指、M3 螺母、M3*8 内六角螺丝；

Materials: servo with claw arm and base, finger, M3 nut, M3*8 hexagon screws.



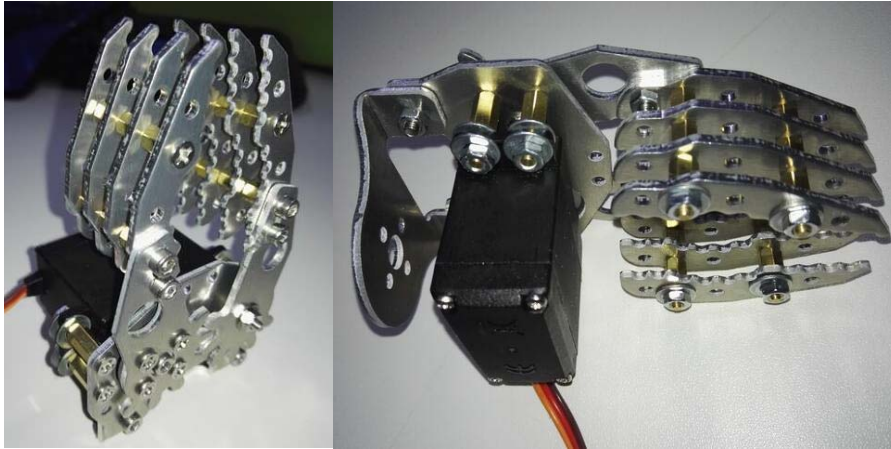
如图示进行安装 Installation:



(注：另一边的手指也是一样的按照第 7、第 8 步安装后，安装在另一边的爪臂上即可！)

(Note: Follow the steps 7 and 8 to install the other finger and install it on the other side of the claw arm!)

到此，整个爪子就安装完毕了。如图示 Finished:



5. 要点 Note

1) 步骤 3 与步骤 5 之间有一定的关联性，在进行步骤 3 的时候，先不要把爪臂装在底座上，以免妨碍步骤 5 舵机的安装，待进行步骤 5 的时候，先将舵机固定在底座之后再取下之前暂时锁住的 M3 螺母，将爪臂 1 装上之后才用 M3 螺母彻底固定住。

2) 本爪子的原理是舵机带动爪臂 2 转动通过两个爪臂之间的齿轮进行传动从而使爪臂 2 联动转动，所以安装爪臂的时候注意舵机的转幅，避免让舵机卡住。

1) There is a certain correlation between step 3 and step 5. When step 3 is performed, do not install the claw arm on the base, so as not to interfere with the installation of the servo of step 5. When step 5 is performed, After the servo is fixed to the base, remove the M3 nut that was temporarily locked. After the claw arm 1 is installed, it is completely fixed with the M3 nut.

2) The principle of the claw is that the servo drives the claw arm 2 to rotate through the gear between the two claw arms to drive the claw arm 2 to rotate. Therefore, when installing the claw arm, pay attention to the rotation of the servo to avoid stuck.

6. 支持与服务

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<https://item.taobao.com/item.htm?spm=a1z10.3-c.w4002-7420449993.12.l0M9X8&id=524302699212>

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