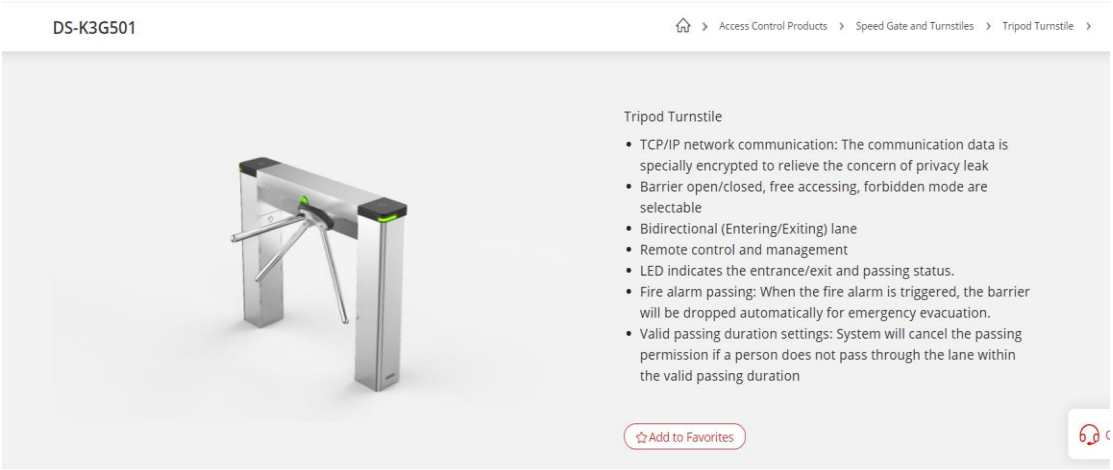
如何更换 DS-K3G501 和 DS-K3G411 机芯（虚拟组件）

How to replace the DS-K3G501 and DS-K3G411 movement (Virtual component)

介绍：当 DS-K3G501 和 K3G411 机芯坏了，如何准确地拆卸和替换新的机芯，本文将介绍 3G501 机芯（虚拟组件）的替换步骤，可作 K3G501/K3G501SX 和 K3G411 型号的机芯（虚拟组件）更换参考。

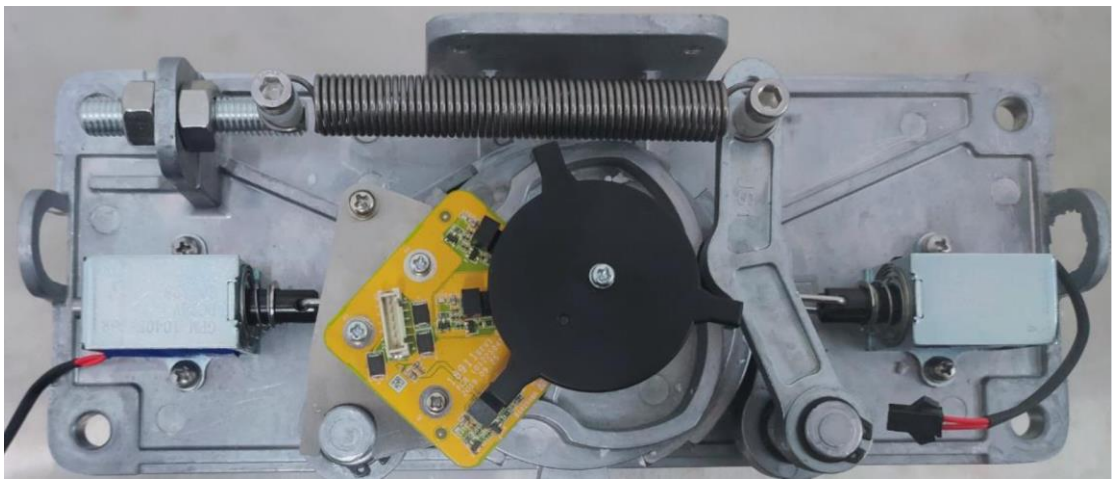
Introduction: When the DS-K3G501/K3G411 movement is broken, how to accurately disassemble and replace the new movement. This article will introduce the replacement steps of the 3G501 movement (virtual component), which can be used as a reference for the replacement of the K3G501/K3G501SX and the K3G411 of movement (virtual component).



一、物料准备 Material Preparation

A、K3G501S-机芯模块-虚拟组件物料号：202003938。

A．K3G501S-Movement Module-Virtual Component Material Number: 202003938.



B、推荐拆卸工具，如下图。

B. The disassembly tool is recommended, as shown below.

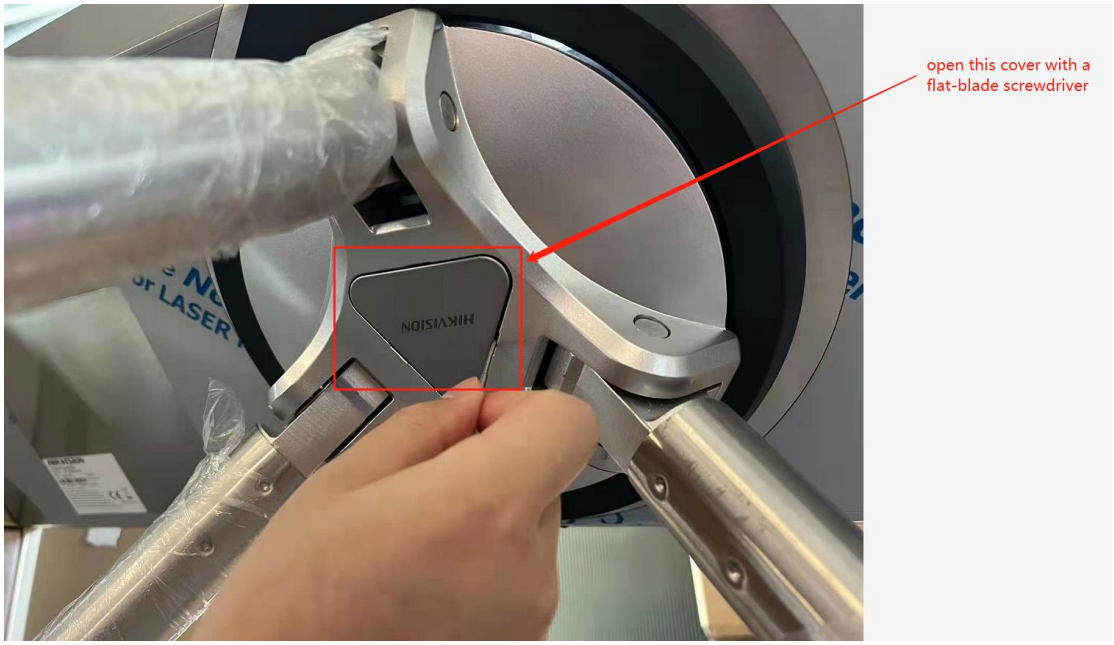
二、拆卸 Disassemble

第一步：拆卸滚杆。

Step 1: Remove the roller rod.

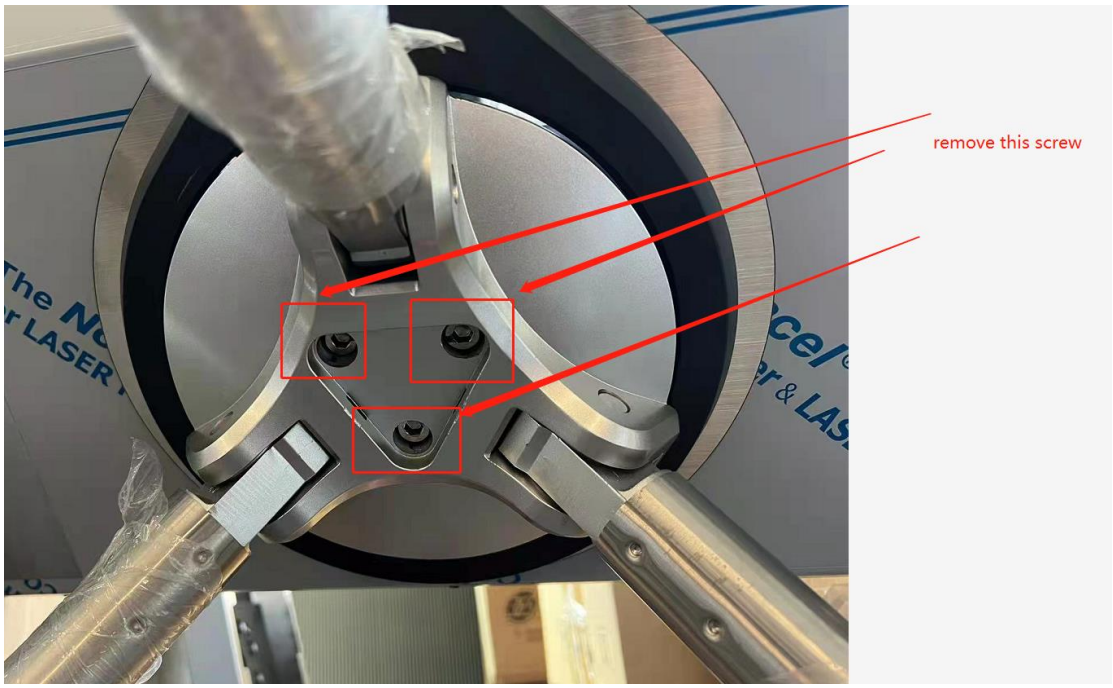
1.1 用一字螺丝刀撬开圆盘上的装饰盖。

1.1 Use a flat-blade screwdriver to pry off the decorative cover.



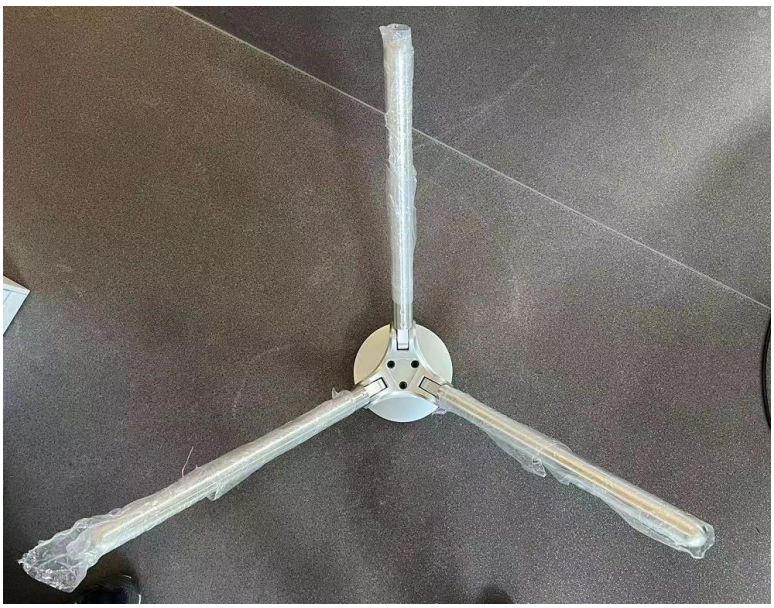
1.2 用六角扳手拆下三颗 M8 螺丝，同时卸下滚轴。

1.2 Use a hexagonal wrench to remove three M8 screws, and remove the roller rod at the same time.



PS：将拆卸下的滚轴，平放在地面上，如下图。

PS：Place the removed rollers flat on the ground, as shown below.

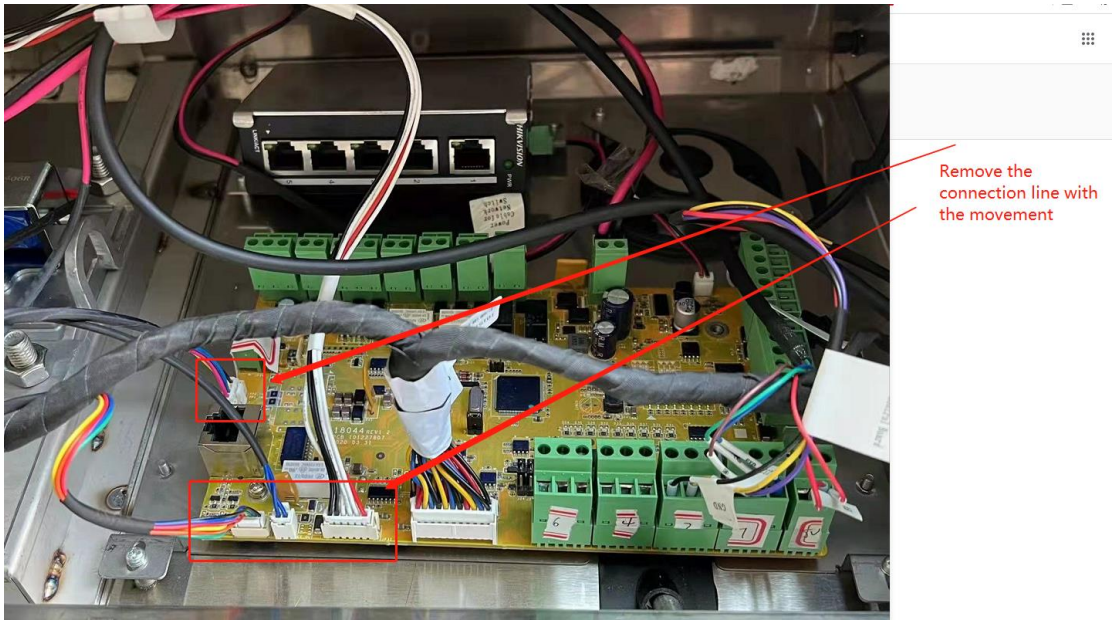


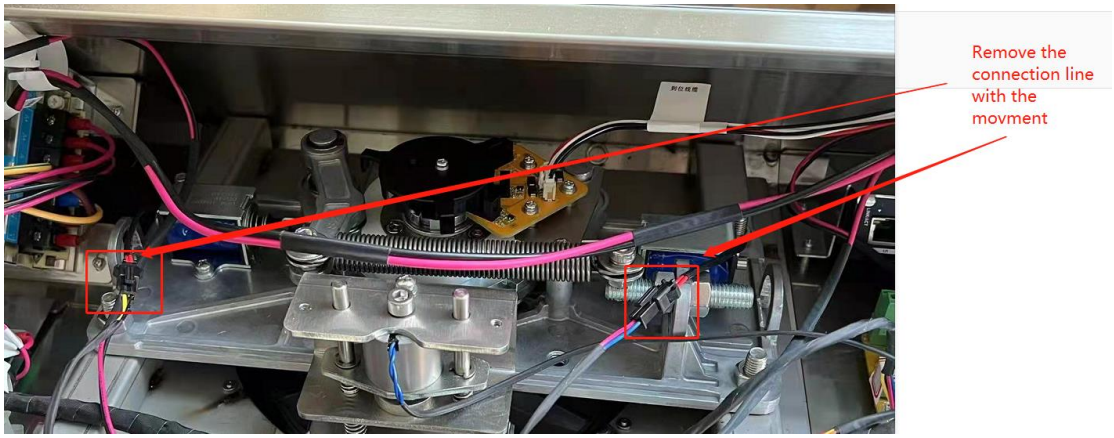
第二步：拆卸机芯。

Step 2: Disassemble the movement.

2.1 拆除主控板与机芯的连接线。

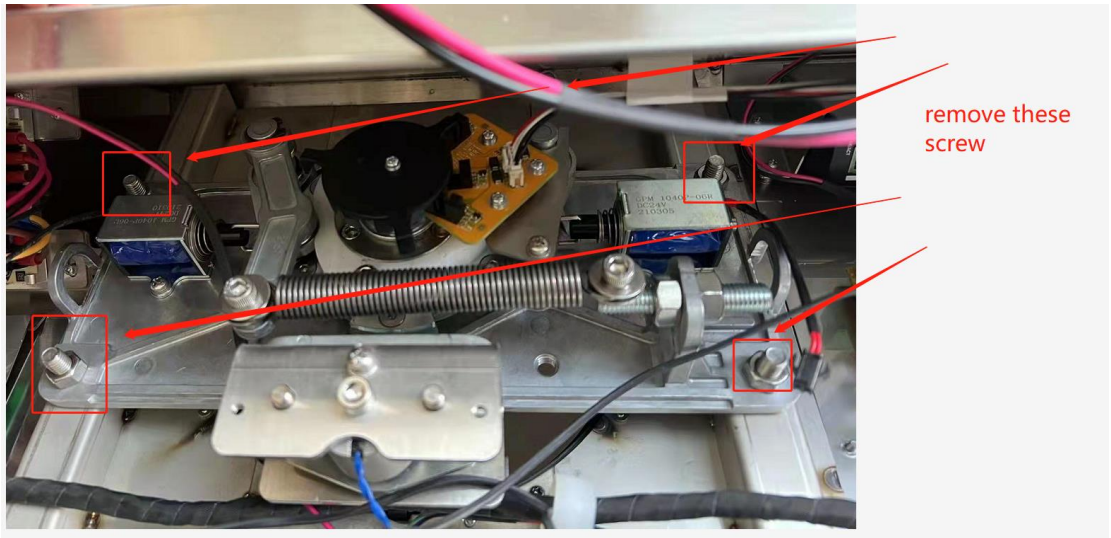
2.1 Remove the connecting wire between the main control board and the movement.





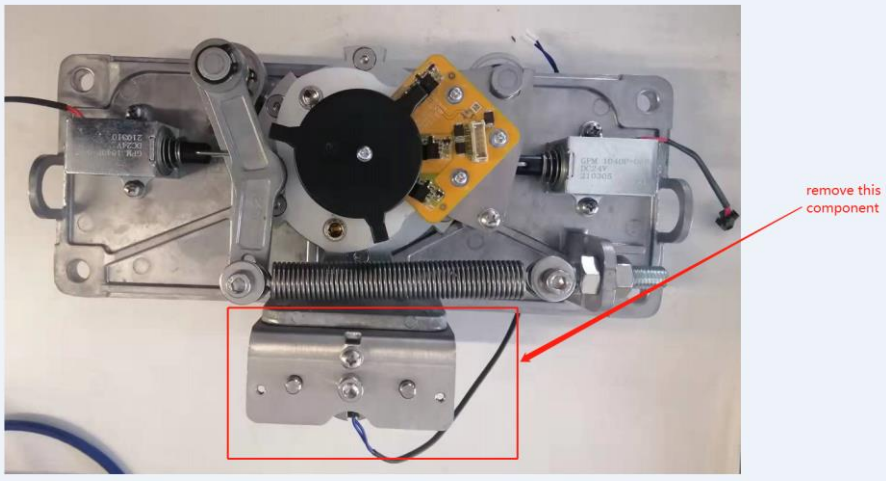
2.2 拆下 4 颗机芯螺丝，取下机芯。

2.2 Remove the four screws and take off the movement.



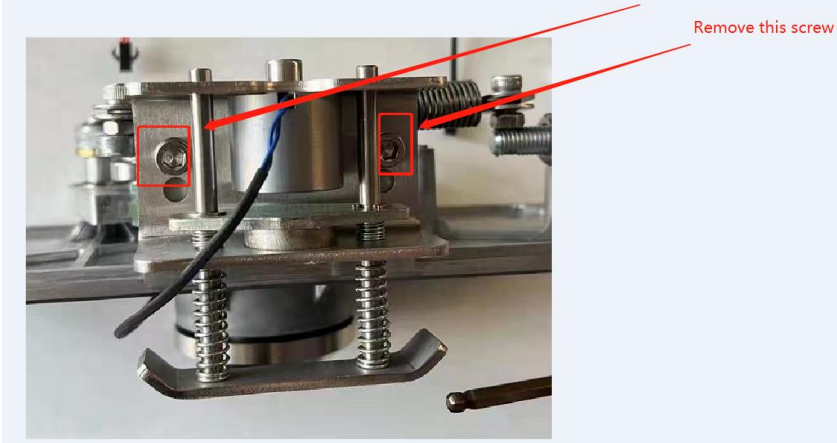
2.3 将机芯上的吸合式电磁铁拆除，然后重新安装到新的机芯下。

2.3 Remove the pull-in solenoid on the movement, and then reinstall it under the new movement.



PS：取下的组件前，推荐拍张照片，不要装错位置，如下图。

PS: Before removing the components, it is recommended to take a picture and not install them in the wrong position, as shown below.



三、安装 Installation

安装过程与拆卸过程相反，这里不在赘述。安装螺栓需要打螺纹胶工艺，否则存在更换一段时间后组件松脱的风险，如下图。

The installation process is opposite to the removal process, so I won't repeat it here. Bolts need to be coated with thread glue during installation, otherwise there is a risk that the components will loosen after a period of the using, as shown below.

PS：安装完成后，需要上电测试一下进出通行。

PS: After the installation is complete, you need to power on and test the access.

附录 Appendix

K3G501 和 K3G411 机芯质量异常情况说明

Description of abnormal quality of K3G501/K3G411 movement

说明 1：并非所有的三辊闸设备都有问题，此问题发生的工况场景为现场使用过程中人员冲撞较多的场景；客户如正常使用，基本不会出现此问题。

Note 1: Not all tripod turnstile has problems. This problem generally occurs in scenes where many people collide with the gates. If customers use them normally, this problem will basically not occur.

说明 2：如现场在遇到三辊闸机芯无法锁住的问题现象时，可以考虑按照如下内容检查机芯情况，排查是如下两个问题的，可以申请免费品。

Note 2: If you encounter a problem that the movement of the tripod turnstile cannot be locked, you can consider checking the movement according to the following content. The troubleshooting is the following two problems, and you can apply for free products.

机芯质量异常 1：

Movement quality abnormal 1:

螺丝问题那里会造成两个现象：未脱落彻底会刷卡后无法开门和脱落彻底就是锁不住闸机。如下图所示情况，为机芯主体组件内 6 颗棘轮盘锁紧螺栓松脱，会引起机芯锁不住闸机，需更换机芯主体组件。

There are two phenomena caused by the screw problem. If it does not fall off completely, the door cannot be opened after swiping the card, and the gate cannot be locked after falling off completely. As shown in the figure below, the 6 ratchet disc locking bolts are loose in the main assembly of the movement, which will cause the movement to fail to lock the turnstile, and the movement needs to be replaced.

注：如发现部分棘轮锁紧螺栓松脱的现象，也需及时更换机芯主体组件。

Note: If you find that some of the ratchet locking bolts are loose, you need to replace the movement in time.

机芯质量异常 2：

Movement quality abnormal 2:

如下图所示情况，为机芯主体组件内棘爪异常磨损，会引起机芯锁不住闸机，需更换机芯主体组件。

As shown in the figure below, the pawl is abnormally worn inside the movement, which will cause the movement to fail to lock the gate, and the movement needs to be replaced.