FS-HZCZ03-ADJ 霍尔摇杆总成座

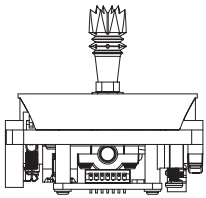
产品介绍 Introduction

FS-HZCZ03-ADJ 是一款采用全新三轴霍尔磁感应技术，配以金属质感的非接触式传感可调机械角度的摇杆总成座，可自由调节左右手及油门是否回中，适配 M3 操作铝柄。

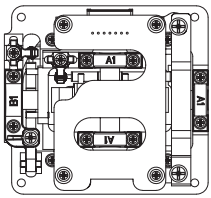
The FS-HZCZ03-ADJ is a Hall Gimbals assembly with a new three-axis Hall magnetic sensing technology and a non-contact sensing adjustable mechanical angle with metal texture. You can choose to control it by the left or right hands and whether the accelerator returns to the center. The FS-HZCZ03-ADJ also compatibles to the M3 aluminum operating handle.

概览 Overview

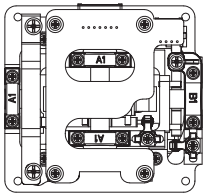
FS-HZCZ03-ADJ 由 SPI 组件以及 USART 组件组成。
The FS-HZCZ03-ADJ is composed of the SPI components and the USART components.



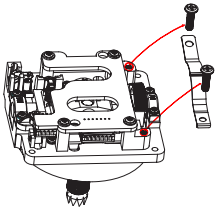
正视图
(Front view)



SPI 背板
(The SPI Backplane)

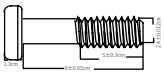


USART 背板
(The USART Backplane)



圆头十字螺丝①
Round head Phillips screw①

圆头十字螺丝②
Round head Phillips screw②



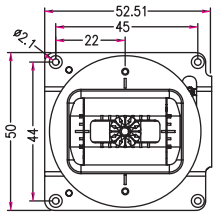
半牙螺丝
Half-threaded screw

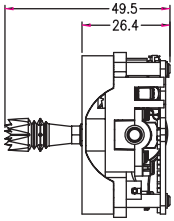
- FS-HZCZ03-ADJ 出厂附赠一个带凹槽的油门弹片，用户可根据实际需求进行更换，更换示意图如上图所示；
- FS-HZCZ03-ADJ 出厂附赠圆头十字螺丝① 8 枚，用于将总成座和遥控器连成一体，对二者进行加固；圆头十字螺丝② 1 枚，用于有弹簧位置的螺丝替换；半牙螺丝 2 枚，用于安装油门卡片位置处螺丝的替换。

- The FS-HZCZ03-ADJ comes with the throttle shrapnel with grooves, which can be replaced according to the actual needs of the user. The replacement diagram is shown in the picture above.
- FS-HZCZ03-ADJ comes with 8 round head Phillips screws used to fix the Hall gimbal and transmitter. 1 round head Phillips screw used to replace the screw in the spring position; and 2 half-threaded screws used to replace those in the position where the throttle shrapnel is mounted.

规格 Specification

单位：mm





FS-HZCZ03-ADJ 霍尔摇杆总成座

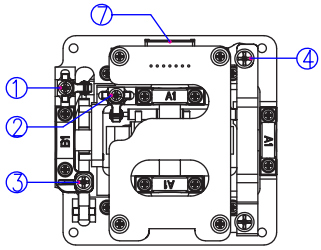
产品规格 Product Specification

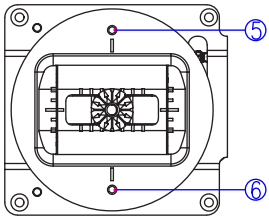
- 产品型号：FS-HZCZ03-ADJ
- 产品名称：霍尔摇杆总成座
- 传感类型：霍尔
- 工作电压：DC 3.3V
- 分辨率：4096
- 线性度：0.5us
- 机械行程可调范围：38° ~ 54°
- 温度范围：-10°C ~ 0°C
- 尺寸：52.5*50*26.4mm
- 重量：71g（单个）

- Product Model: FS-HZCZ03-ADJ
- Product Name: ： Hall Gimbal
- Sensor Type: Hall
- Working Voltage: DC 3.3V
- Resolution: 4096
- Linearity: 0.5us
- Adjustable range of mechanical stroke: 38° ~ 54°
- Humidity Limit: -10°C ~ 60°C
- Dimensions: 52.5*50*26.4mm
- Weight: 71g（Single）

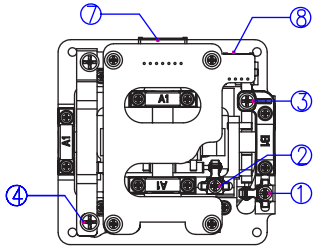
调节说明 Adjustment Instructions

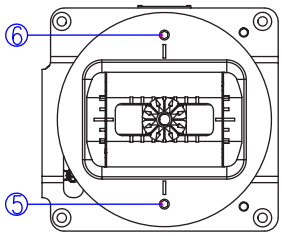
SPI:





USART:





①：调节摇杆总成纵向摇杆弹力；
②：调节摇杆总成横向摇杆弹力；
③：调节摇杆总成摇杆是否回中；
④：调节摇杆总成纵向摇杆摩擦力；
⑤、⑥：调节摇杆总成纵向摇杆角度大小；
⑦：连接摇杆总成 SPI/USART 组件的接口；
⑧：通道数据输出接口。

①：Gimbal stick vertical tension adjustment
②：Gimbal stick horizontal tension adjustment
③：Gimbal stick centering adjustment
④：Throttle stick drag resistance adjustment
⑤、⑥：Gimbal stick vertical travel adjustment
⑦：SPI/USART connection interface
⑧：Channel data output interface

注：
1. 拧动螺丝时请勿过度调节，防止螺丝脱落；
2. 首次使用时请通过发射机对霍尔摇杆总成座进行校准，校准方法请查看所使用的发射机说明书。
Notes:
1. Do not over adjusting the screw, to prevent it from falling off.
2. For the first use, please calibrate the Hall Gimbals through the transmitter, please refer to the transmitter manual about calibration method.

安装说明 Installation Instructions

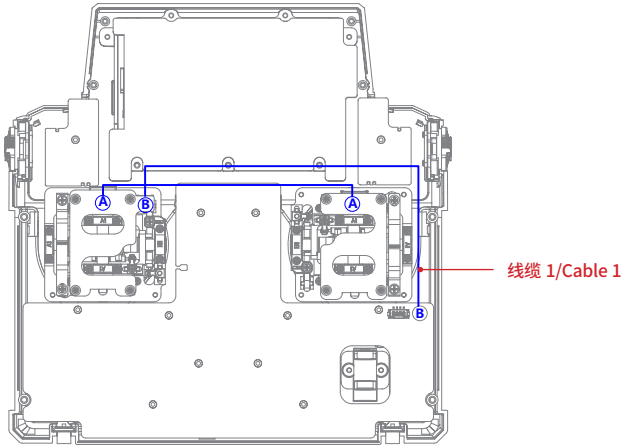
线缆 1(示意图如下) 用于连接总成座与 PL18 或 NV14 等发射机。
Cable 1 shown in the figure below is used to connect the hall gimbals to the transmitters such as PL18 / NV14, etc.

线缆 2(示意图如下) 仅用于连接总成座与 FS-ST8 发射机。
Cable 2, shown in the figure below, is used to connect the hall gimbals to the FS-ST8 transmitter only.

线缆 1 适配 PL18 或 NV14 等发射机，线缆 2 仅适配 FS-ST8 发射机，请勿互换使用，否则可能损坏发射机或总成座!

Cable 1 adapts to the transmitters such as PL18 / NV14, etc. Cable 2 adapts to the FS-ST8 transmitter only. It should be noted that you use cable 1 and cable 2 by strictly following the above rule. Otherwise, the transmitter or the hall gimbals may be damaged!

总成座与 PL18 安装示意图 (Installation diagram of the gimbal and PL18 transmitter）：

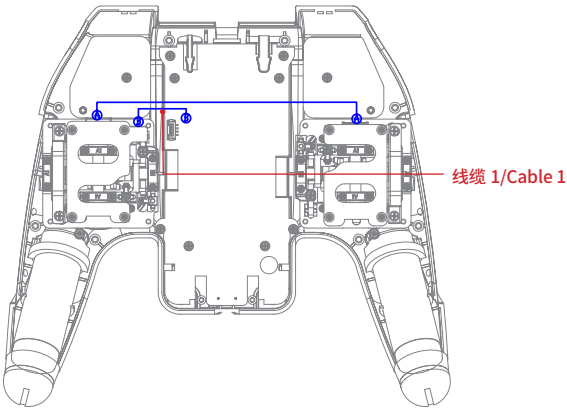


A-A：总成座 USART 和 SPI 连接；
B-B：连接总成座 USART 和发射机主板。

A-A: Connect the USART backplane to the SPI backplane;
B-B: Connect the USART backplane to the transmitter main board.

安装说明 Installation Instructions

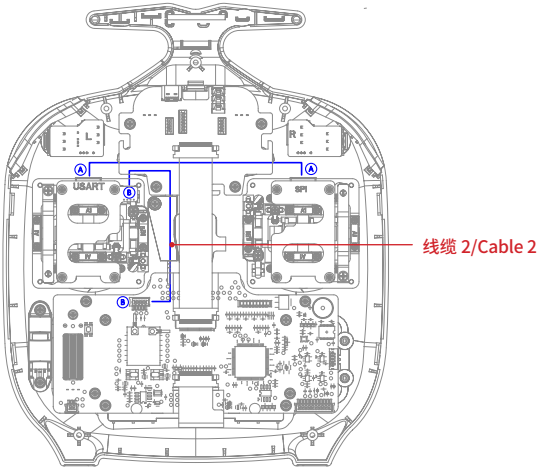
总成座与 NV14 安装示意图 (Installation diagram of the gimbal and NV14)：



A-A：总成座 USART 和 SPI 连接；
B-B： 连接总成座 USART 和发射机主板。

A-A: Connect the USART backplane to the SPI backplane;
B-B: Connect the USART backplane to the transmitter main board.

总成座与 FS-ST8 安装示意图 (Installation diagram of the gimbal and FS-ST8 transmitter)：



A-A：总成座 USART 和 SPI 连接；
B-B： 连接总成座 USART 和发射机主板。

A-A: Connect the USART backplane to the SPI backplane;
B-B: Connect the USART backplane to the transmitter main board.

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