

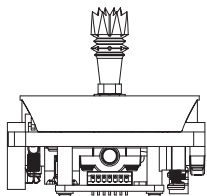
### 产品介绍 Introduction

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

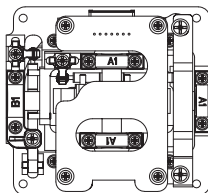
The FS-HZCZ03-ADJ is a Hall Gimbals assembly with a new three-axis Hall magnetic sensing technology and a non-contact sensing adjustable mechanical angle with metal texture. You can choose to control it by the left or right hands and whether the accelerator returns to the center. The FS-HZCZ03-ADJ also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

### 概览 Overview

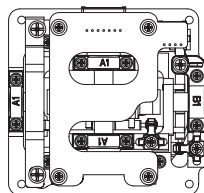
FS-HZCZ03-ADJ 由 SPI 组件以及 USART 组件组成。The FS-HZCZ03-ADJ is composed of the SPI components and the USART components.



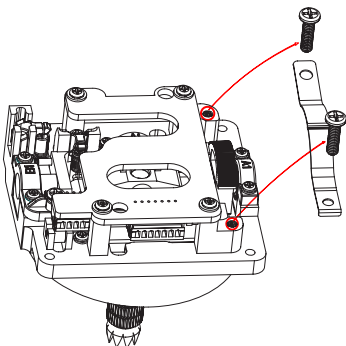
正视图  
(Front view)



SPI 背板  
(The SPI Backplane)



USART 背板  
(The USART Backplane)

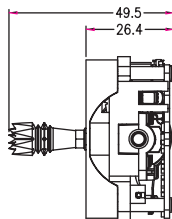
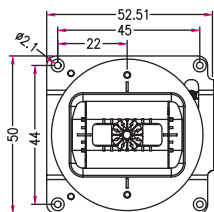


FS-HZCZ03-ADJ 出厂附赠一个带凹槽的油门弹片，用户可根据实际需求进行更换，跟换示意图如左图所示。

The FS-HZCZ03-ADJ comes with throttle shrapnel with grooves, which can be replaced according to the actual needs of the user. The replacement diagram is shown in the left picture.

### 规格 specification

单位: mm

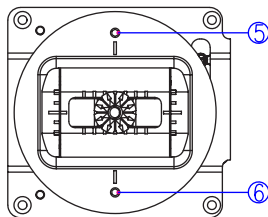
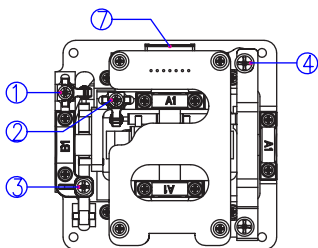


### 产品规格 Product specification

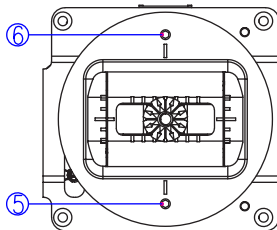
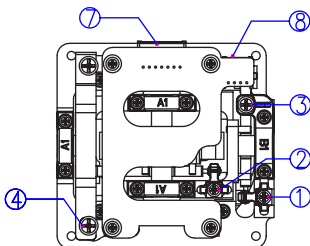
- 产品型号: FS-HZCZ03-ADJ
  - 产品名称: 摇杆总成
  - 传感类型: 霍尔
  - 工作电压: DC 3.3V
  - 分辨率: 4096
  - 线性度: 0.5us
  - 机械行程可调范围: 38°—54°
  - 温度范围: -10°C—60°C
  - 尺寸: 53\*50\*26.5mm
  - 重量: 71g
- Product Model: FS-HZCZ03-ADJ
  - Chinese Name: : Yao Gan Zong Cheng
  - Sensor Type: Hall
  - Working Voltage: DC 3.3V
  - Resolution: 4096
  - Linearity: 0.5us
  - Adjustable range of mechanical stroke: 38°—54°
  - Humidity Limit: -10°C—60°C
  - Dimensions: 53\*50\*26.5mm
  - Weight: 71g

### 调节说明 Adjustment instructions

SPI:



USART:



- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>①: 调节摇杆总成纵向摇杆弹力;</li> <li>②: 调节摇杆总成横向摇杆弹力;</li> <li>③: 调节摇杆总成摇杆是否回中;</li> <li>④: 调节摇杆总成纵向摇杆摩擦力;</li> <li>⑤、⑥: 调节摇杆总成纵向摇杆角度大小;</li> <li>⑦: 连接摇杆总成 SPI/USART 组件的接口;</li> <li>⑧: 通道数据输出口。</li> </ul> | <ul style="list-style-type: none"> <li>①: Gimbal stick vertical tension adjustment</li> <li>②: Gimbal stick horizontal tension adjustment</li> <li>③: Gimbal stick centering adjustment</li> <li>④: Throttle stick drag resistance adjustment</li> <li>⑤、⑥: Gimbal stick vertical travel adjustment</li> <li>⑦: SPI/USART connection interface</li> <li>⑧: Channel data output interface</li> </ul> |
|--|---|

注:

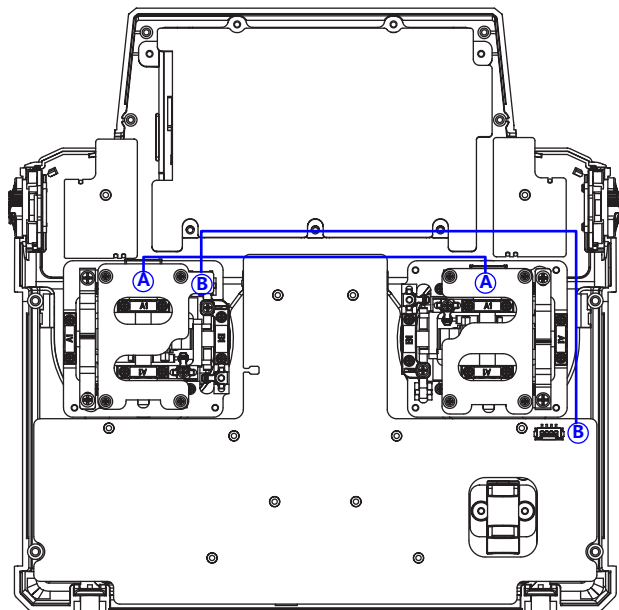
1. 拧动螺丝时请勿过度调节, 防止螺丝脱落;
2. 首次使用时请通过发射机对霍尔摇杆总成进行校准, 校准方法请查看所使用的发射机说明书;

Note:

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

总成座与 PL18 安装示意图 (Diagram of the assembly base and PL18 installation) :

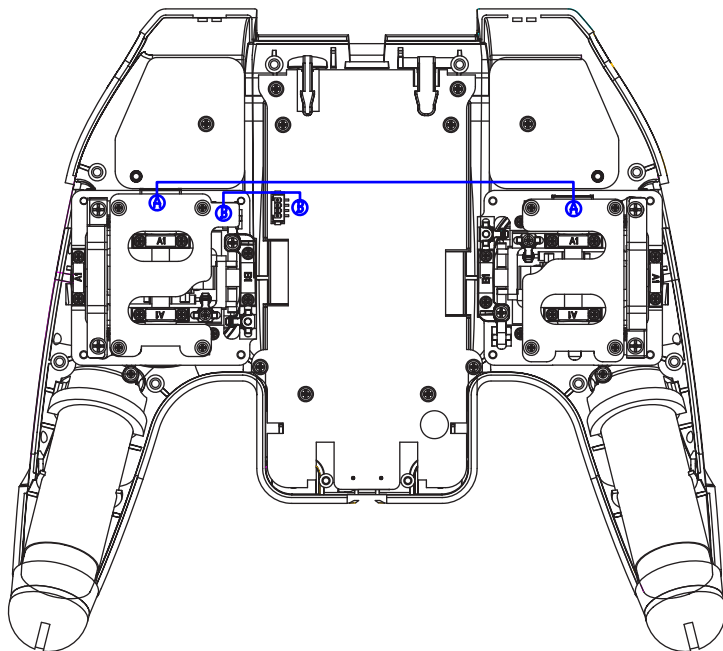


A-A: 总成座 USART 和 SPI 连接;  
B-B: 连接总成座 USART 和发射机主板;

A-A: Assemble the seat USART and the SPI connection;  
B-B: Connect the assembly base USART and the transmitter main board;

## 安装说明 installation instructions

总成座与 NV14 安装示意图 (Diagram of the assembly base and NV14 installation):



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: Assemble the seat USART and the SPI connection;  
B-B: Connect the assembly base USART and the transmitter main board;