

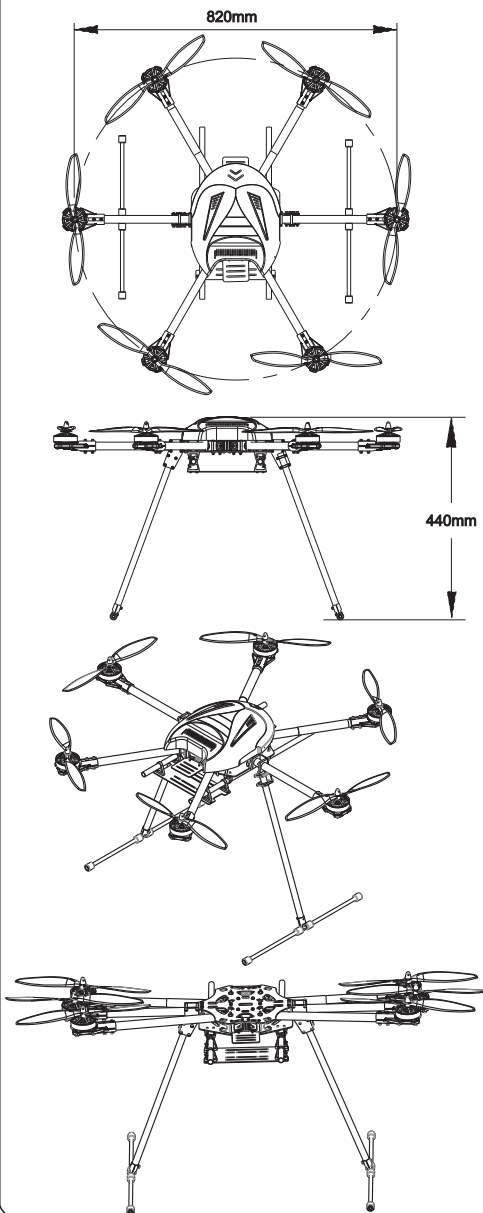
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# ST800 AIRCRAFT MANUAL

Thank you for choosing the Vision Bumblebee. This is not a toy, please read and follow these instructions carefully to guarantee proper function and safety.

# Details of ST800 产品简介



Diameter(电机轴距): 820mm

Height(整机高度): 440mm

kit(not including the canopy) weight(空机重量,无头罩,): 950g

Battery requirement(电池要求): 6S 5000mAh~10000mAh

Brushless Motor(搭配电机): ST4708 360KV

Brushless ESC(无刷电调): 30A\40A (compatible with 6s li-poly)兼容6S锂电池的30A或40A电调.

Flight time(飞行时间): >10 mins

Flight Weight(起飞重量): 4000g

loading Weight(载重量): 2000g

1.整机以碳纤维复合材料为主,搭配铝合金连接件,保证机身强度的同时有效的减轻了重量。

The machine mainly consists of carbon fiber composite materials, matching joints of aluminum alloy to ensure the strength of body as well as to effectively reduce the weight.

2.六条支臂为18mm碳纤管和加强型电机固定座。

The six arms are with 18mm carbon fiber tubes and enhanced motor mount.

3.起落架连接件采用14mm碳纤管以金属件和碳纤维合成板连,方便装配和维修。

The connections of landing gear are formed with 14mm carbon fiber tube, which is composed with metal and carbon fiber, to be assembled and repaired easily.

4.支撑管采用12mm碳纤管,管间距为155mm,兼容市面上主流云台。

Supporting tubes are made from 12mm carbon fiber tube, the span between tubes is 155mm, it accommodates with mainstream camera gimbal in the market.

5.前后各延伸一个拓展板,方便安装GPS、接收机及其他一些设备。

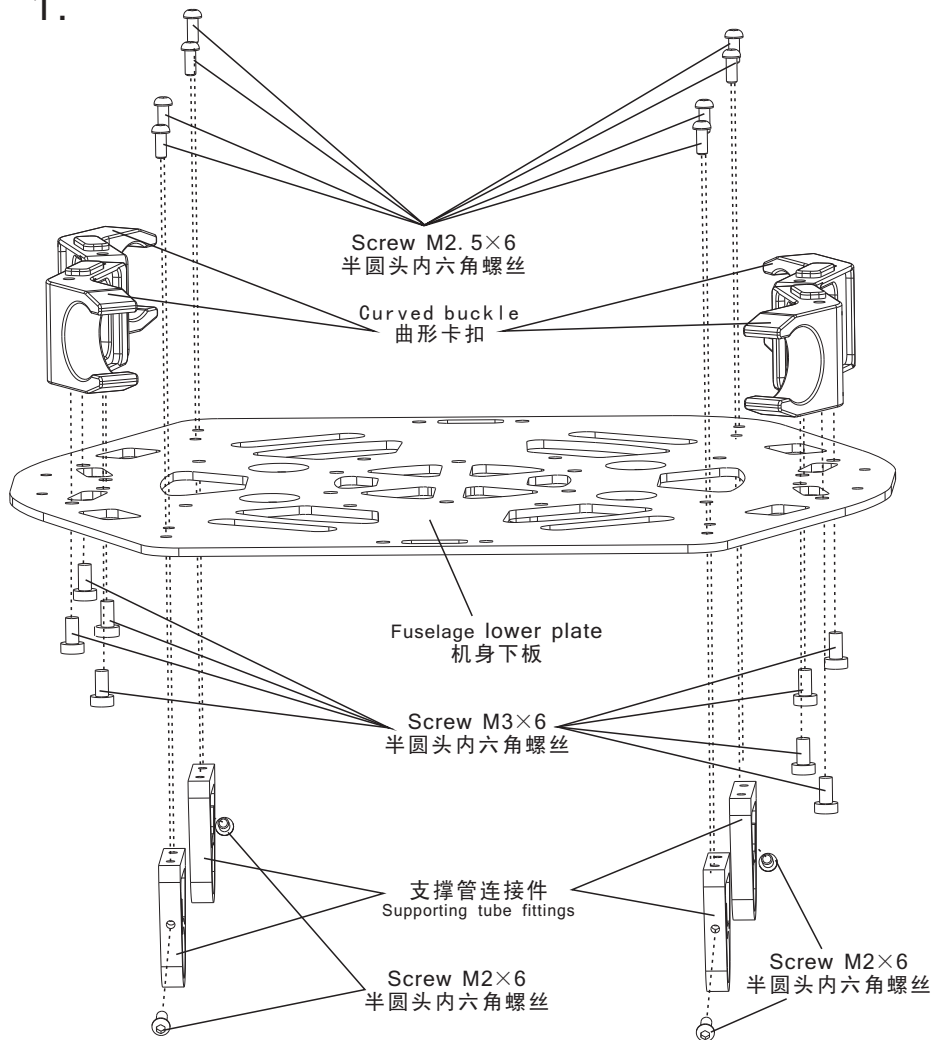
There are two extended boards in front and rear of the fuselage, it is convenient for the installation of GPS, receivers and other equipments.

6.电池板采用金属连接件固定,可以通过前后滑动来调节飞行器的重心。

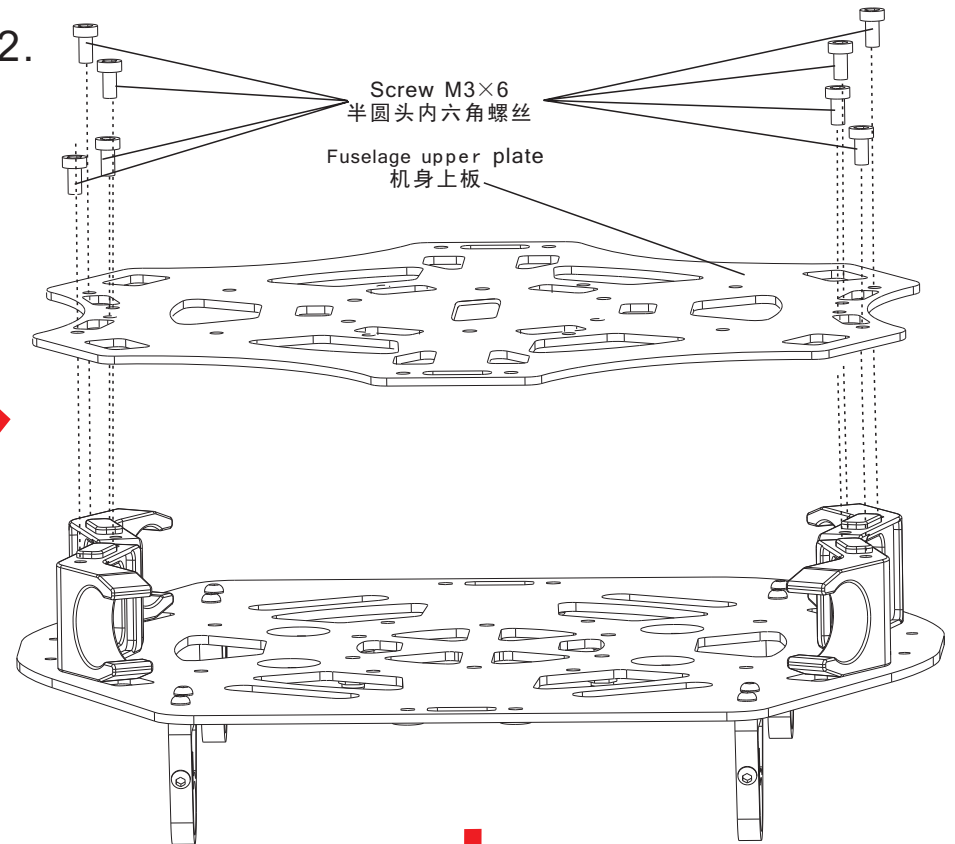
Battery frame is fixed by metal connectors, the hexacopter of gravity of the aircraft can be adjusted by sliding the battery frame back and forth

# Fuselage plate installation 机身板的安装

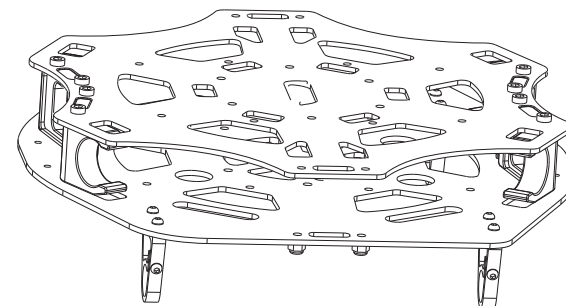
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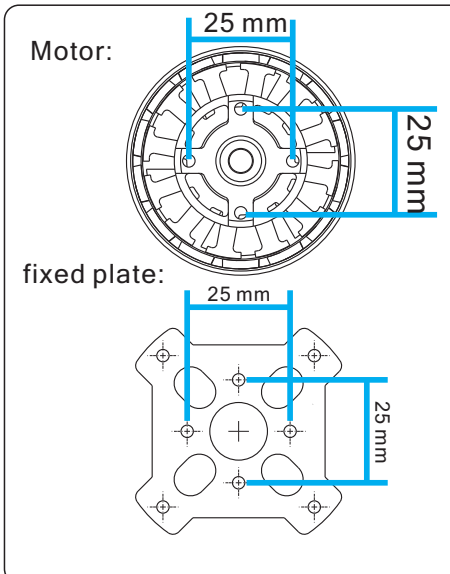
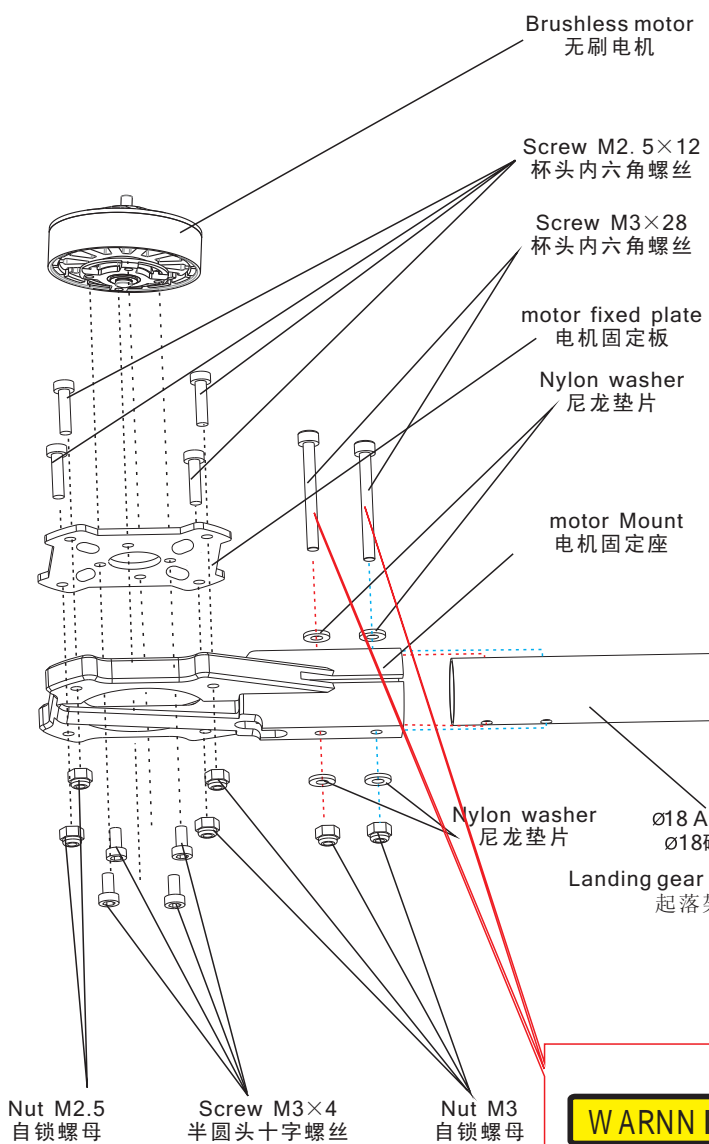
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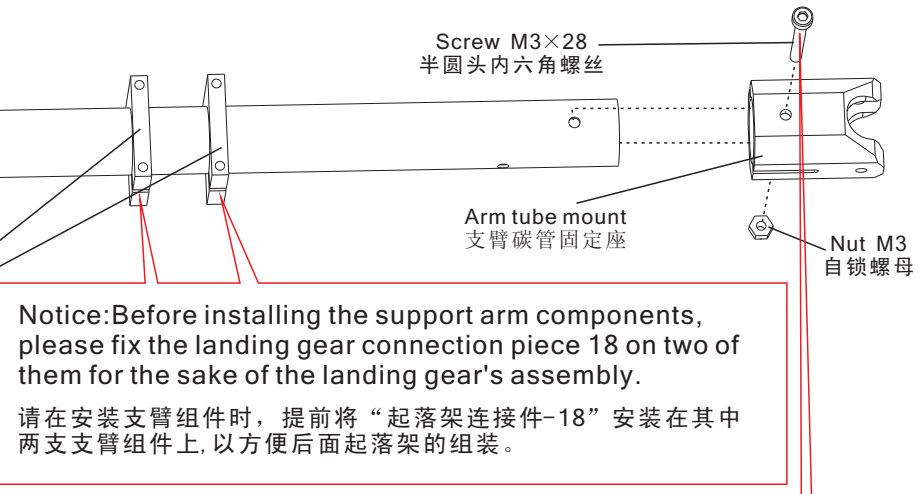


# Fuselage plate installation 机身板的安装



**WARNNING!** The size for the Motor fixed plate is 25mm, please choose motors whose outside diameter is less than 55mm and the mounting hole space is 25mm. (more than 55mm ones may cause collision).

电机固定板安装尺寸为25mm，请选择电机外径小于55mm安装孔距为25mm的无刷电机，外径大于55mm的电机可能会发生干涉。



**Notice:** Before installing the support arm components, please fix the landing gear connection piece 18 on two of them for the sake of the landing gear's assembly.

请在安装支臂组件时，提前将“起落架连接件-18”安装在其中两支支臂组件上，以方便后面起落架的组装。

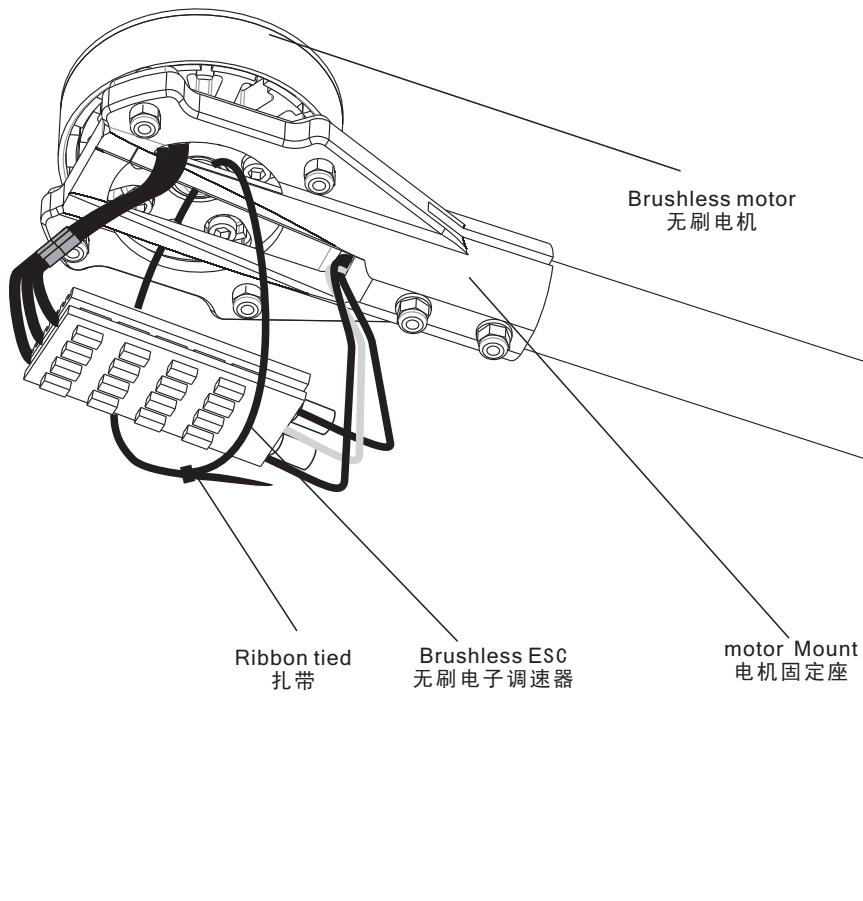
**WARNNING!** Be careful not to damage the wires when you install these screws.  
安装螺丝时，请注意不要损伤电调的电源线。

# Brushless ESC install 安装电子调速器

Firstly connect the brushless motor with the ESC.

In order to make it easy to assemble, line and signal wire of the ESC traverse the carbon tube via the port under the plastic motor mount.

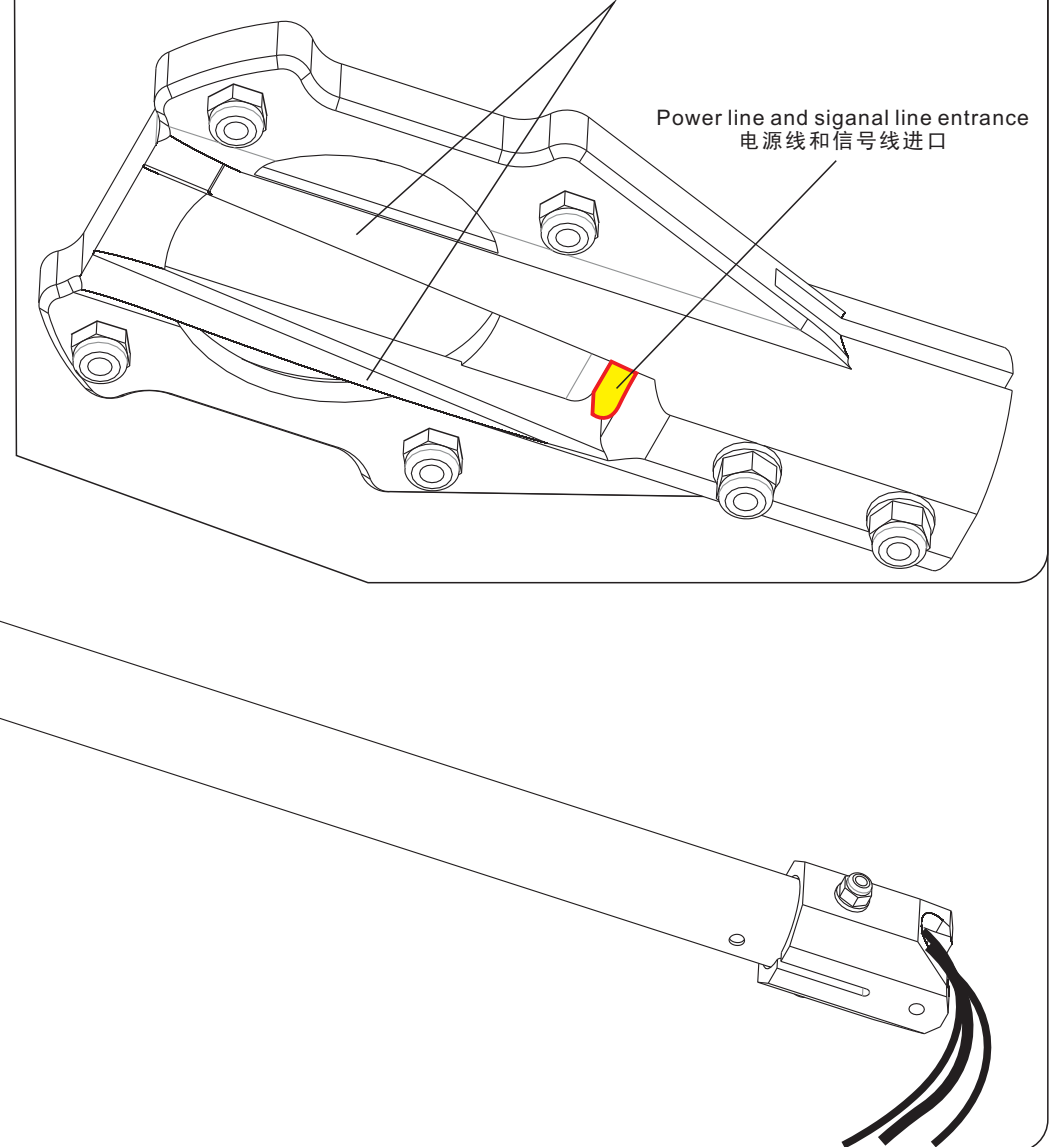
首先将无刷电机连接在电调上，如下图所示把电调的电源线和信号线通过塑胶电机固定座下方的进线口穿过碳管，方便后面装配。



Motor Mount  
电机固定座

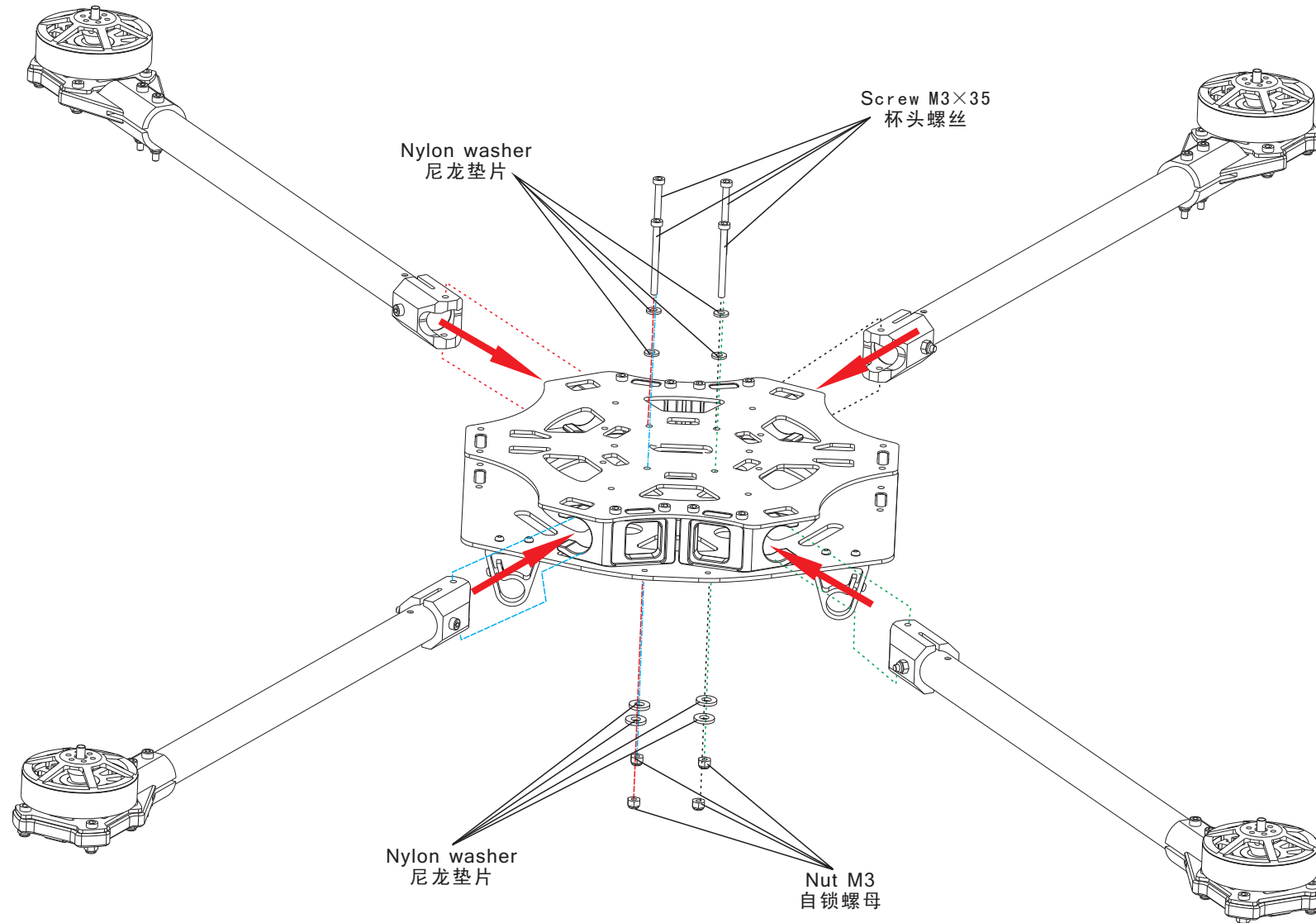
Fix the ESC on this two reinforcing rib by using the cable tie

装电调用扎带固定在这两个加强筋上。



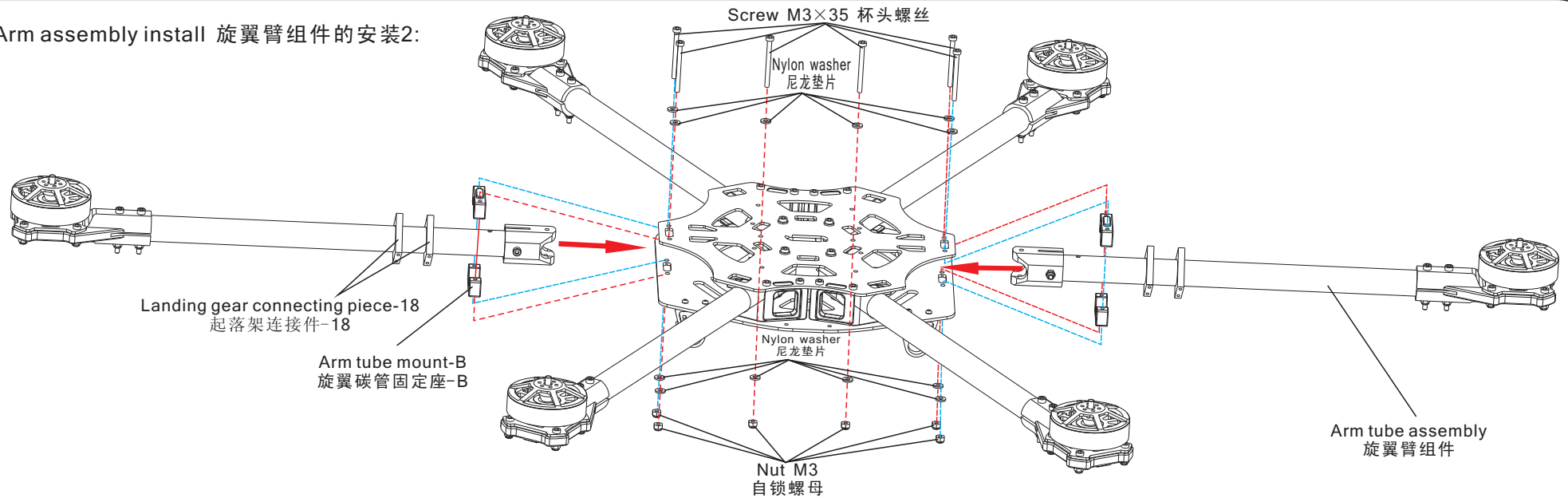
# Installation of the arm components 旋翼臂组件的安装

将支臂组件沿箭头方向插入机身板中，用螺丝将它固定在机身板上。  
Insert the arm into the fuselage along the direction of the arrow, and secure it in the fuselage plate with screws.

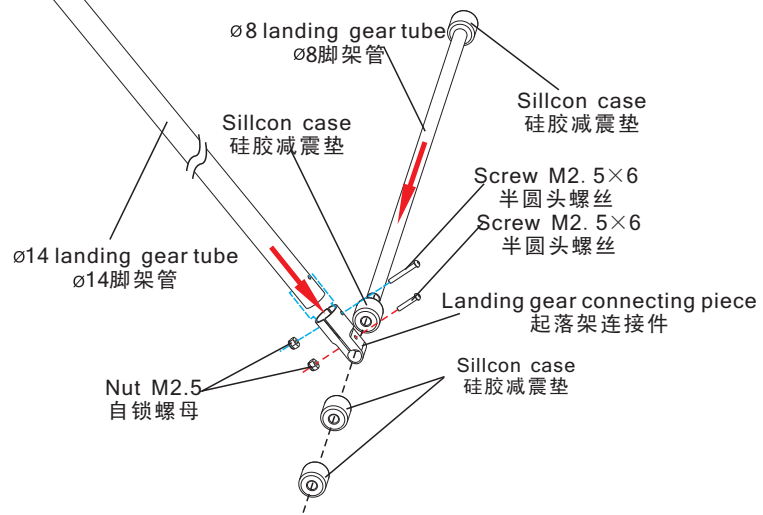


# Installation of the arm components 旋翼臂组件的安装

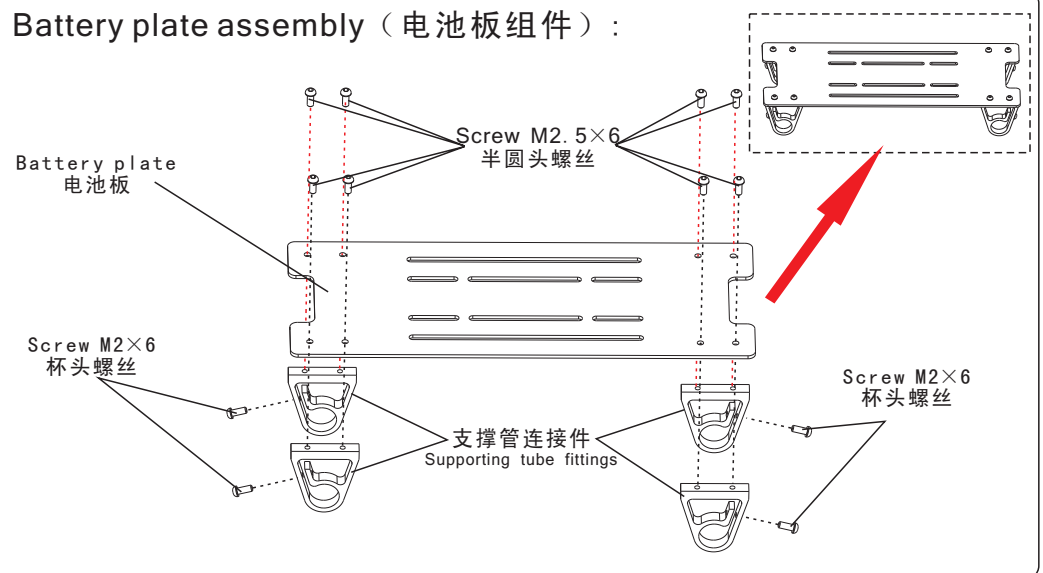
Arm assembly install 旋翼臂组件的安装2:



Landing gear assembly(起落架组件):

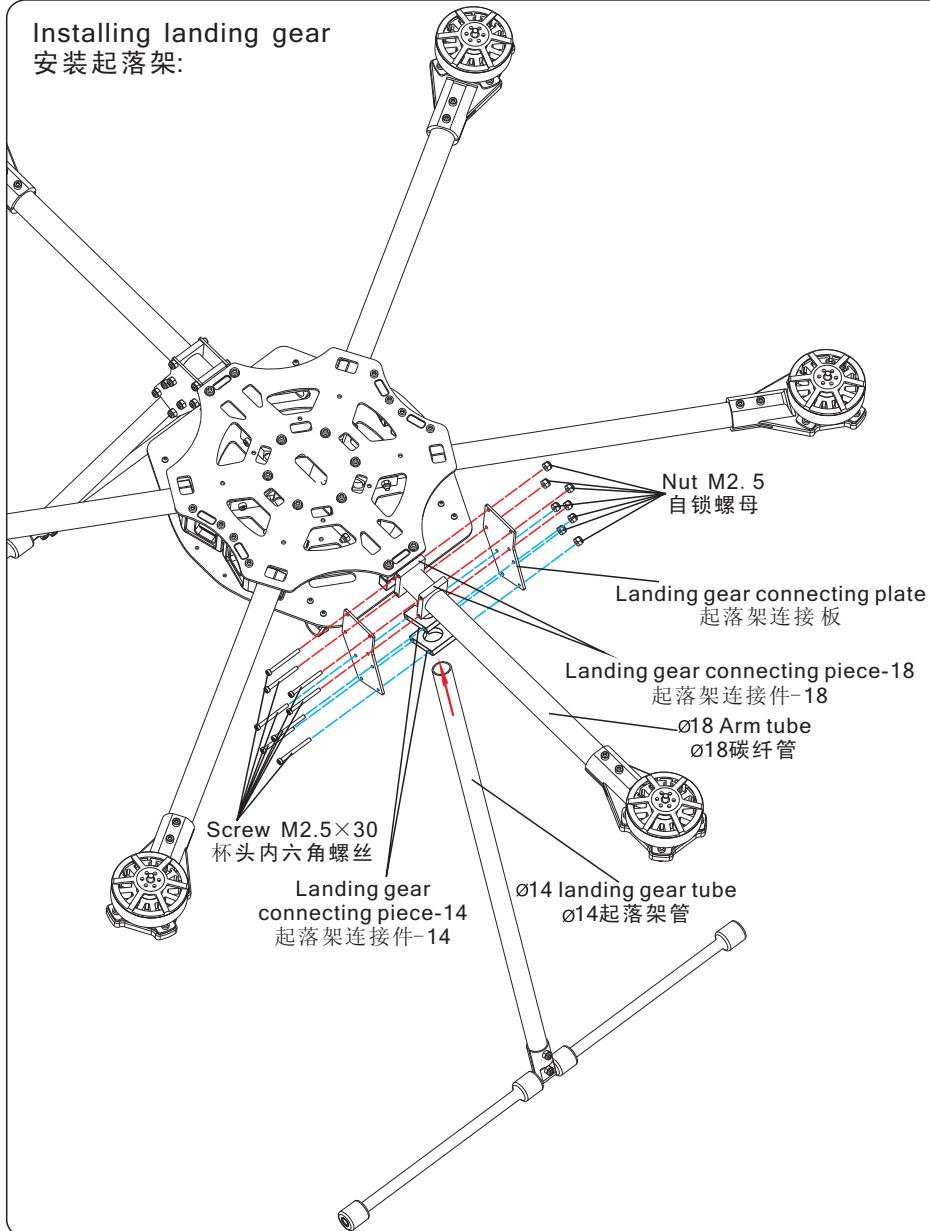


Battery plate assembly (电池板组件):

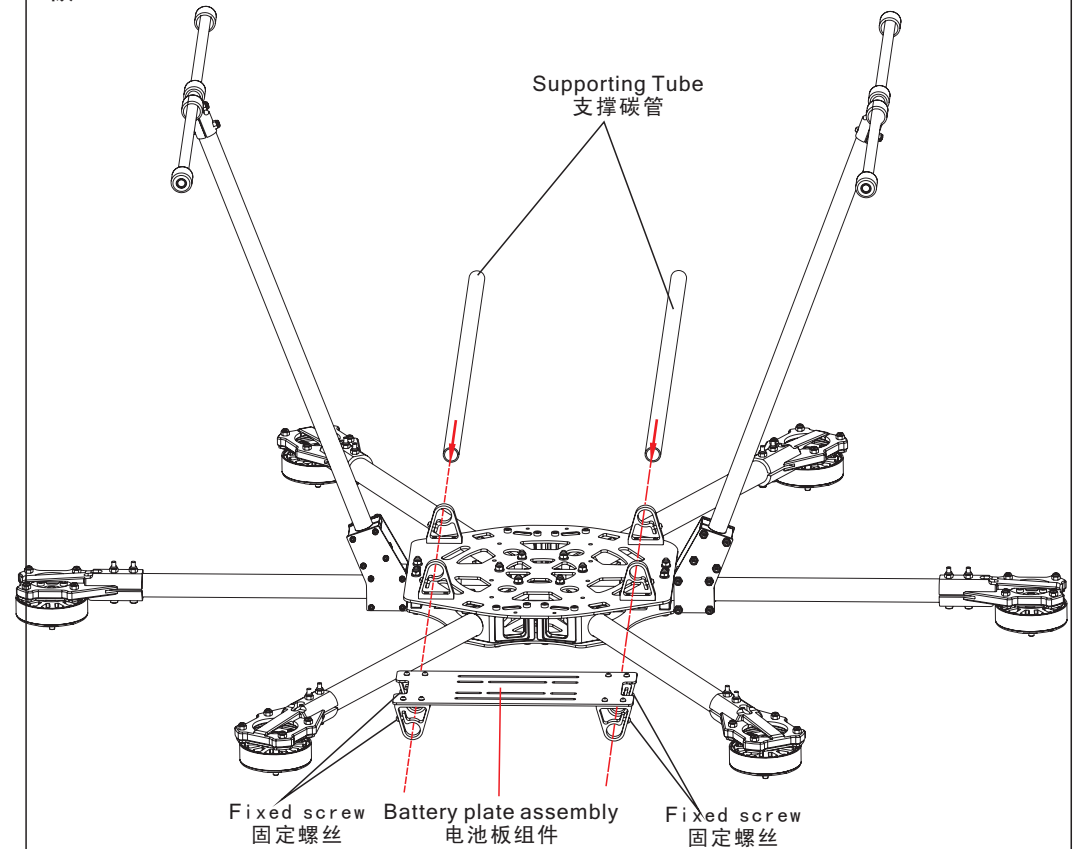


# Landing gear and battery plate 起落架和电池板

Installing landing gear  
安装起落架:



The center distance between the two supporting tubes is 155mm. please match the right gimbal according to the size.  
when adjusting the gravity of the aircraft, loosen the set screws, slid the battery component to the appropriate location, tighten the screws and the battery.  
支撑管之间中心距离为155mm,请据尺寸搭配合适的云台; 调节飞行器重心时, 松开固定螺丝, 滑动电池板组件到合适位置, 拧紧固定螺丝固定电池板。

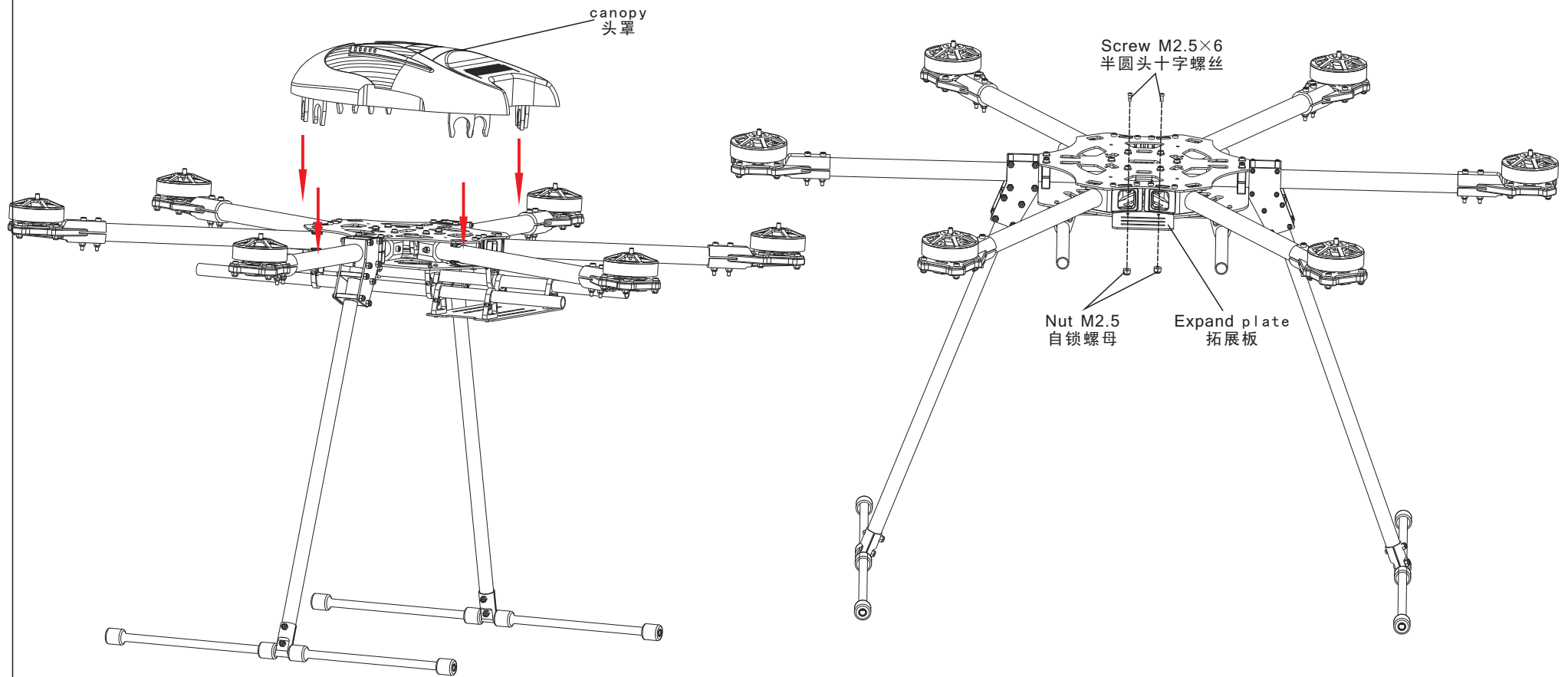




# Canopy and expand plate 头罩和拓展板:

the plastic cover can effectively protect the electronic equipment, and reduce both the cost and the risk of flight.

塑胶头罩可以有效保护飞行器的电子设备，减小飞行风险，降低飞行成本。



# Propeller and other set install 螺旋桨和其他组件的安装

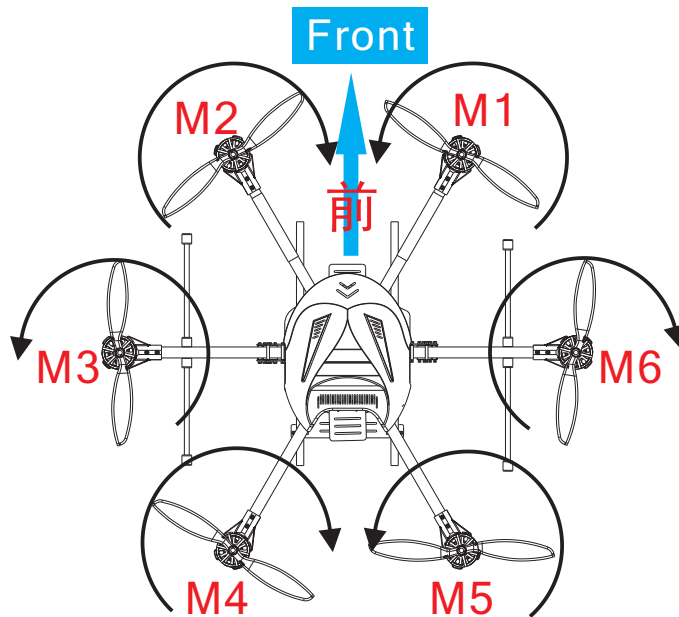
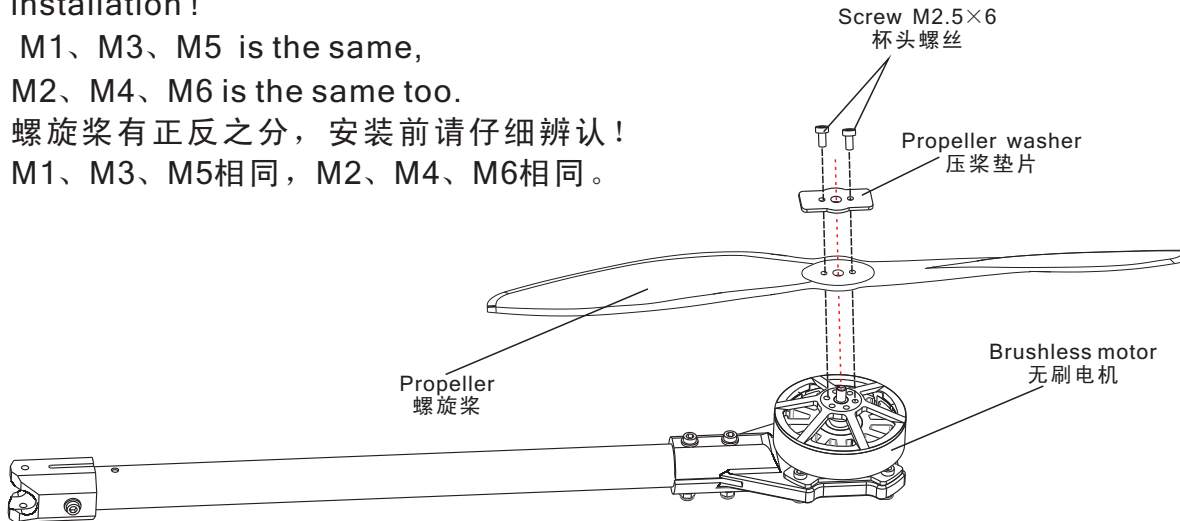
There are difference of pros and cons in the propeller, please identify it carefully before installation!

M1、M3、M5 is the same,

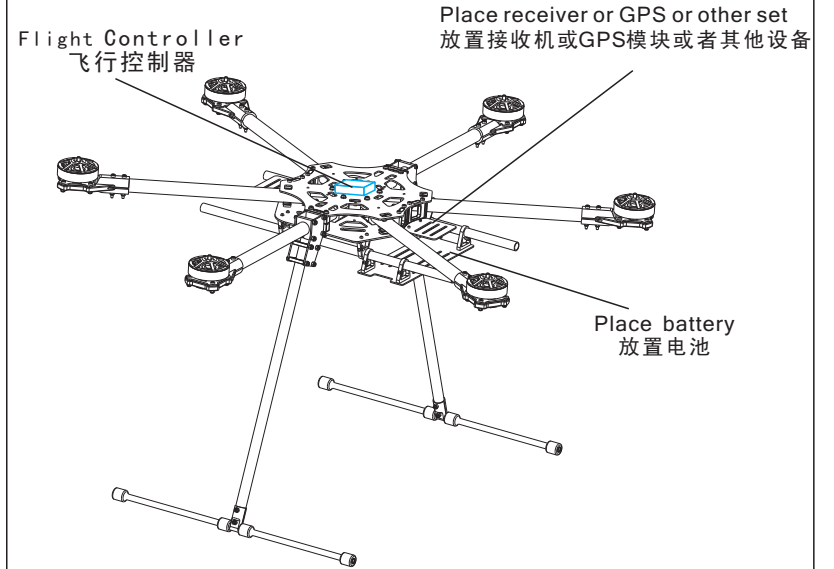
M2、M4、M6 is the same too.

螺旋桨有正反之分，安装前请仔细辨认！

M1、M3、M5相同，M2、M4、M6相同。



Device for placing (设备放置):



Fold (折叠方式):

