

E700
DUBHE
Instruction Manual

天枢星 E700
组装说明书

SPECIFICATION / 规格表

Item No. / 产品编号	MK70000	
Description / 产品名称	DUBHE E700	天枢星 E700
Power / 动力	Electric Motor	电动无刷马达
Rotor Head / 主旋翼头型式	Flybarless	无副翼控制系统
Length / 总长度	1360 mm / (53.54")	
Width / 总宽度	190 mm / (7.48")	
Height / 总高度	352 mm / (13.86")	
Main Rotor (Req'd) 主旋翼	Length / 长度	700 mm / (27.56")
	Diameter / 旋翼直径	1555 mm / (61.22")
Tail Rotor (Req'd) 尾旋翼	Length / 长度	105 mm / (4.13")
	Diameter / 回转直径	289 mm / (11.38")
Main Gear / Pinion 主齿轮 / 马达驱动齿轮	112 T Main Gear / 12T Pinion Gear	
Gear Ratio (E:M:T) / 齿轮比	9.33 : 1 : 4.89	
Full Equipped Weight 全备重量	4480 g (12S 4500mAh) (158 oz)	
Recommended of servo specifications 建议使用舵机规格	Standard Servo 标准尺寸舵机	
Recommended Power Configuration 动力搭配建议	Battery 电池 : 12S (6S x 2) 3200~5300mAh ESC 电调 : 130A+ (12S) Motor 马达 : 510~540KV (12S)	

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INTRODUCTION / 简介

Thank you for purchasing the RVE RC radio control helicopter. This new helicopter is the latest innovation by RVE RC. It has the perfect combination of flying stability and the agility for 3D flying. This helicopter is an excellent choice for flying enthusiasts like you. For convenient assembly and safe operation of the helicopter, please read the instructions carefully. Retain the user manual in case you need it for any information or reference.

感谢您购买威翼遥控直升机产品，本项产品为全新开发机种，兼具高精度、极轻量化的设计特性，是热衷遥控直升机的您不可错过的选择。请于使用本产品前详尽阅读使用手册，以利于组装工作顺畅进行与安全操控本产品。请妥善保存使用说明书，以利后续调整与维修参考用途。

CAUTION / 警告

1. R/C models are not toys. This product is a high-precision flying machine. Possibilities of unexpected crashes may occur due to electronic interference, incorrect operation, or poor mechanical maintenance. Although it is a R/C model helicopter, the rotor blades rotate at high speeds, which may cause serious damage, injury, or death if the model hits people or property. Therefore, extreme caution must be exercised during operation.
 2. RVE RC ensures parts packaged in this product is of the highest quality. However, after assembly and usage, parts damaged due to wear or misuse will not be replaced under any circumstances. If you have any questions regarding its operation and repair, RVE RC service agents are able to provide free technical guidance.
 3. This product is only recommended for users ages 16 and up. Because flying a R/C helicopter is difficult, beginners must receive guidance and supervision from experienced pilots to minimize unexpected danger. Practice in spacious areas, far away from obstacles such as buildings, trees, electrical towers, or crowds.
 4. To decrease the cost of repair and maintenance for beginners, it is recommended to fly the helicopter with a practice rack and to learn basic flying skills with a computer R/C flying simulator. (Crashes in simulators are free to repair!)
1. 本项遥控直升机产品并不是玩具，是一项结构精密、高专业度模型产品，如果未经正确组装与操控，将可能对操控者或其他人造成身体伤害。使用者必须了解，若未确实进行飞行前安全检查或操控不当，而造成人员受伤或物体损坏，使用者必须负起法律责任。
 2. 本产品由高品质零组件组成，我们对于安装过程、使用过后，等人为因素造成损坏事件不负损坏赔偿之责。如您需要本产品相关组装、调整或其他协助，可与威翼各地经销商联系。
 3. 本项产品禁止十六岁以下青少年与孩童使用。强烈建议初学者应取得技术支援后再进行飞行，以避免危险发生。请于空旷地区操控本产品，并避免于建筑物、树木、电塔，等障碍物区域飞行。
 4. 建议初学者可安装练习架或透过电脑模拟软体练习，可达到实际练习效果与符合经济效益。

AMA INFORMATION / 特别注意事项

Operating a model helicopter requires a high degree of responsibility and skill. If you are a newcomer to the hobby, it is best to seek help and guidance from accomplished model helicopter pilots. This will greatly speed up the learning process and have you flying successfully in a reasonable amount of time. We also would strongly urge you to join the Academy of Model Aeronautics, if you are in States. The AMA is a non-profit organization that provides its members with a liability insurance plan as well as monthly magazine entitled Model Aviation. All AMA charter aircraft clubs require all pilots to hold a current AMA sporting license prior to operation of their models at club fields. For further information, contact the AMA at:

Academy of Model Aeronautics
5151 East Memorial Drive
Muncie, IN 47302
(317) 287-1256
<http://www.modelaircraft.org>

操控遥控直升机对于飞行安全要求极高，需要高度的负责任态度配合，以及较高的操控技巧。如果您是一位初学者，建议您必须向当地专业模型经销商，或是遥控直升机相关组织以及经验丰富的玩家寻求相关协助，以获得您所需要的讯息以及专业知识。如此可有效协助您缩短学习的时间，更容易学会遥控直升机的组装、设定与操控技巧。

同时我们也强烈建议您加入中国航空运动协会会员，以合法合规的参与航空模型飞行运动。

如何参加中国航空运动协会，请参考以下网址了解详情：www.asfc.org.cn

FLIGHT SAFETY CHECKLIST / 飞行前安全确认工作项目

1. Make sure that the transmitter battery is fully charged before flying.
2. Make sure all control surfaces are operated properly before flying.
3. Do a range check of the radio before the first flight. The electronic equipment must operate properly at a range of at least 5 meters (18 ft) even with the transmitter antenna collapsed.
4. Make sure there are no other pilots using the same radio frequency with yours and that there are no other radio interference on your frequency.
5. Be sure to turn on the transmitter first with the throttle stick in the idle position. Plug the battery into the ESC last.
6. The main rotor and the tail rotor spin at very high RPM. Make sure nothing can come in contact with the rotor blades during flight.
7. Always maintain a safe distance from the helicopter during flight.
8. Never fly the helicopter in the rain or in excessive wind conditions.
9. Always operate and fly the helicopter in a safe and responsible manner.
10. Never fly the helicopter over other pilots, spectators, cars or anything that could result in injury or property damage.

1. 确认接收机与发射机电池，均已确实充电完成。
2. 确认所有操控介面运作顺畅。
3. 确认无其他无线电波干扰，且不与其他同好同时使用相同频率。
4. 确实将油门摇杆放置于低速，再将发射机电源开启，然后再将电池接上。
5. 确认遥控器发射器与接收机工作正常，将机体放至于距离5公尺外，确认遥控器是否正常，机体控制动作是否正确。
6. 主旋翼与尾旋翼转速相当高，运转时须避免任何障碍物与旋翼接触。
7. 飞行时，需与遥控直升机保持安全距离。
8. 勿于下雨天或是强风的状态下操控遥控直升机。
9. 请以安全为第一考量，并以高度负责任的态度参与遥控直升机活动。
10. 禁止于人群、车辆.. 或任何其他障碍物上方飞行遥控直升机，避免意外发生。

POST FLIGHT INSPECTION / 飞行结束安全检查事项

1. Inspect the model thoroughly to insure no parts have come loose or become damaged during the flight and landing. Replace damaged parts and tighten loose screws before flying again.
2. Clean the helicopter body.
3. Lubricate all moving parts to ensure smooth operation for the next flying.
4. Replace any worn ball links and damaged bearings.
5. Store the model in a cool, dry place. Avoid putting it under direct sunlight or near a source of heat.

Following these simple rules will allow you to enjoy the thrill of model helicopter flying for many years.

1. 飞行结束后确认机体所有的零件与螺丝是否有损坏或松动，更换损坏零件与确实固定松动的螺丝。
2. 机体清洁干净。
3. 检查所有活动零组件是否运作顺畅，以利下次飞行。
4. 更换所有松动的连杆、接头，以及损坏的轴承。
5. 将机体存放于阴凉通风处，避免机体放置于阳光直射处或接近热源。
确实执行上述几项简单的步骤，将可确保您的爱机维持数年的寿命！

CAUTION / 注意事项

When the model has crashed, inspect the flybar, rotor shaft and the blade spindle to make sure they are not bent. If any item is damaged, it must be replaced with a new part to ensure safe operation. Do not glue any broken or damaged plastic parts. Do not repair broken rotor blades.

Always inspect the following items:

Gears, Ball links, Link rods, Bearings, Main shaft, Flybar, Spindle, Tail boom and support, Fins, Tail rotor shaft, Main blades, Tail blades, the Motor, the Speed control and the Battery.

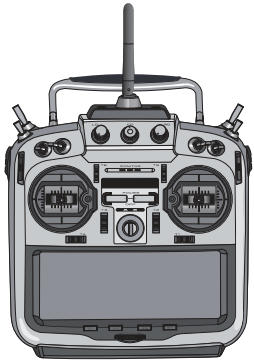
机体一旦发生坠落事件，请确实检查平衡杆、主轴、横轴是否有弯曲变形，如果有任何的损坏，请立即更换原厂新的零组件，确认机体操作安全！切勿使用任何接着剂尝试粘合塑胶零件；请勿使用修复过的主旋翼。

发生机体坠落事件后，请确实检查下列项目：

齿轮组、球头连杆、连杆头、轴承、主轴、横轴、尾轴、平衡杆、平衡片、尾管、尾管支撑架、垂直与水平尾翼、尾驱动轮、主旋翼、尾旋翼、马达、速控器、电池。

OTHER ITEMS REQUIRED / 其它需求设备配件

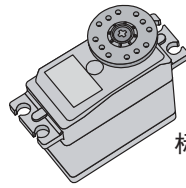
RADIO SET / 遥控器系统



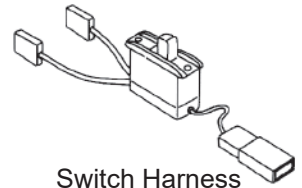
Receiver
接收机



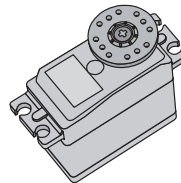
Rx Battery
接收机电池



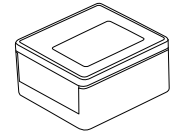
Standard Servo
(For Swashplate)
标准尺寸倾斜盘用舵机



Switch Harness
电源开关组



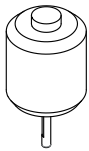
Standard Servo
(For Tail Gyro)
标准尺寸尾舵用舵机



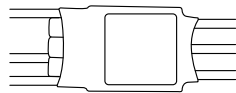
3-AXIS Gyro
3轴陀螺仪

Transmitter (helicopter type
only, 6 or more channels)
发射机 (需具备直升机控制功能
的6通道以上遥控器)

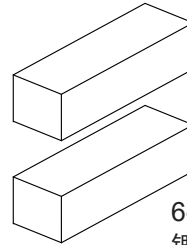
POWER SYSTEM / 动力系统



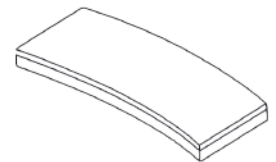
Electric Brushless Motor
无刷马达



Electronic Speed Controller
电调

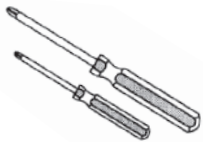


6-12S Li-Po Battery Pack
锂电池组



Foam Tape
双面胶带

TOOLS REQUIRED FOR ASSEMBLY / 需要准备的工具



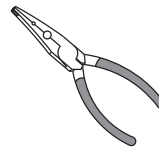
Screw Driver
各种规格的螺丝刀



Needle Nose Pliers
尖嘴钳



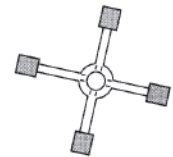
Nipper
斜口钳



Ball Link Pliers
连杆钳



Scissors
剪刀



Metric 4-way Wrench
十字套筒板手

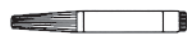
5.5mm
7mm
8mm



Hobby Knife
美工刀



C.A Glue
502快干胶



Threadlocker
螺丝防松胶



Grease
润滑油



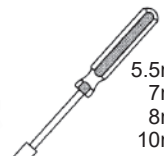
Epoxy
环氧树脂



Hex Wrench
六角板手



5.5mm
7mm
Wrench
开口板手



5.5mm
7mm
8mm
10mm
Socket Drivers
套筒螺丝刀

A GUIDE TO THE INSTRUCTION MANUAL / 说明书使用说明

A: Indicates the assembly step number and the parts bags that are to be assembled.

B: Displays actual size drawings, and part quantities used.

C: This instruction manual uses several symbols. Pay careful attention to them during construction. Details are given at the bottom of each page.

A: 显示组立步骤及需要组装的零件顺序

B: 请比对零件名称和零件数量

C: 请参照组装说明符号, 可有效协助组装过程对于各部位零组件的操作


Example 说明范例

A

Step 1-1 Tail Belt Tension Pulley assembly / 尾皮带压带轮组装				1-2 ESC Mount Assembly / 电调固定座组装			
No.	Parts Description	零件名称	Qty	No.	Parts Description	零件名称	Qty
1	Belt Pulley Mount	皮带导向轮安装座	2	1	ESC Mounting Plate	电调安装板	1
2	Collar 3x5x2.3	轴圈 3x5x2.3	3	2	Frame Spacer	内隔板支撑柱 L12	2
3	Stainless Steel Pin 3x16	不锈钢销轴轴销	1	3	Flat Socket Screw M3x10	平头内六角螺栓 M3x10	4
4	Bearing d3x7x3	轴承 d3x7x3	4				
5	Belt guide pulley	皮带导向轮	2				
6	Belt tensioner mount	皮带张紧器安装座	1				
7	Belt tensioner	皮带张紧器	1				
8	Tensioner torsion spring	张紧器扭簧	1				
9	Collar 3x4 2x1	轴圈 3x4 2x1	1				
10	Button Head Socket Screw M3x14	半圆头内六角螺栓 M3x14	2	11	Flange Bearing 3x7x3	法兰轴承 d3x7x3	2

B

1-1 皮带压带轮组装 Tail Belt Tension Pulley assembly

 如果轴承安装时较松, 请在轴承外壁涂上少许绿色轴承胶。
Apply a little green bearing glue to the outer wall of the bearing.
If the bearing is loose during installation.

1-2 电调固定座组装 ESC Mount assembly

C

SYMBOLS USED THROUGHOUT THE MANUAL / 符号说明

The parts in the KIT are packed according to each major assembly steps. The part number and quantity are always shown in the table on each page. As good practice, only open up the bag that you need for the particular assembly.

零件均依照组装步骤包装, 请依照组装顺序, 逐一开启零件包, 避免零件遗失。

Note / 注意

Assembly drawings will contain icons that indicate use of Threadlocker or CA glue as needed.

Examples of the icons are as right shown:


请依组装步骤图示, 使用防鬆胶、接着剂或AB胶环氧树脂。
图示范例如右:

 T22 (#262) → THREADLOCKER / 螺丝防鬆胶


 CA → CA GLUE / 速干胶


 AB → EPOXY GLUE / 环氧树脂AB胶

 Apply C.A Glue
使用速干胶


 Apply threadlocker
使用螺丝防鬆胶


 Apply Epoxy Glue
使用环氧树脂AB胶


 Assemble as many times as specified
依指示组装所需数量


 Assemble left and right side the same way
左右侧组件相同

 Apply Grease
需要涂专用润滑油脂

 Ensure smooth, non-binding movement when assembling
确认组件顺畅度

 Previously assembled
先前组装完成组件

 Not Includ Must be purchased separately
套件不包含需另购

 Assembly Tips
组装提示

No.	Parts Description	零件名称	Qty
1	Belt Pully Mount	皮带导向轮安装座	2
2	Collar 3x5x2.3	垫圈3x5x2.3	3
3	Stainless Steel Pin 3x16	皮带导向轮轴销	1
4	Bearing d3xD7xW3	轴承 d3xD7xW3	4
5	Belt guide pulley	皮带导向轮	2
6	Belt tensioner mount	皮带张紧器安装座	1
7	Belt tensioner	皮带张紧器	1
8	Tensioner torsion spring	张紧器扭簧	1
9	Collar 3x4.2x1	垫圈3x4.2x1	1
10	Button Head Socket Screw M3x14	半圆头内六角螺丝M3x14	2

No.	Parts Description	零件名称	Qty
11	Flange Bearing d3xD7xW3	法兰轴承 d3xD7xW3	2
1	ESC Mounting Plate	电调安装板	1
2	Fream Spacer L32	内侧板支撑柱 L32	2
3	Flat Socket Screw, M3x8	沉头内六角螺丝 M3x8	4

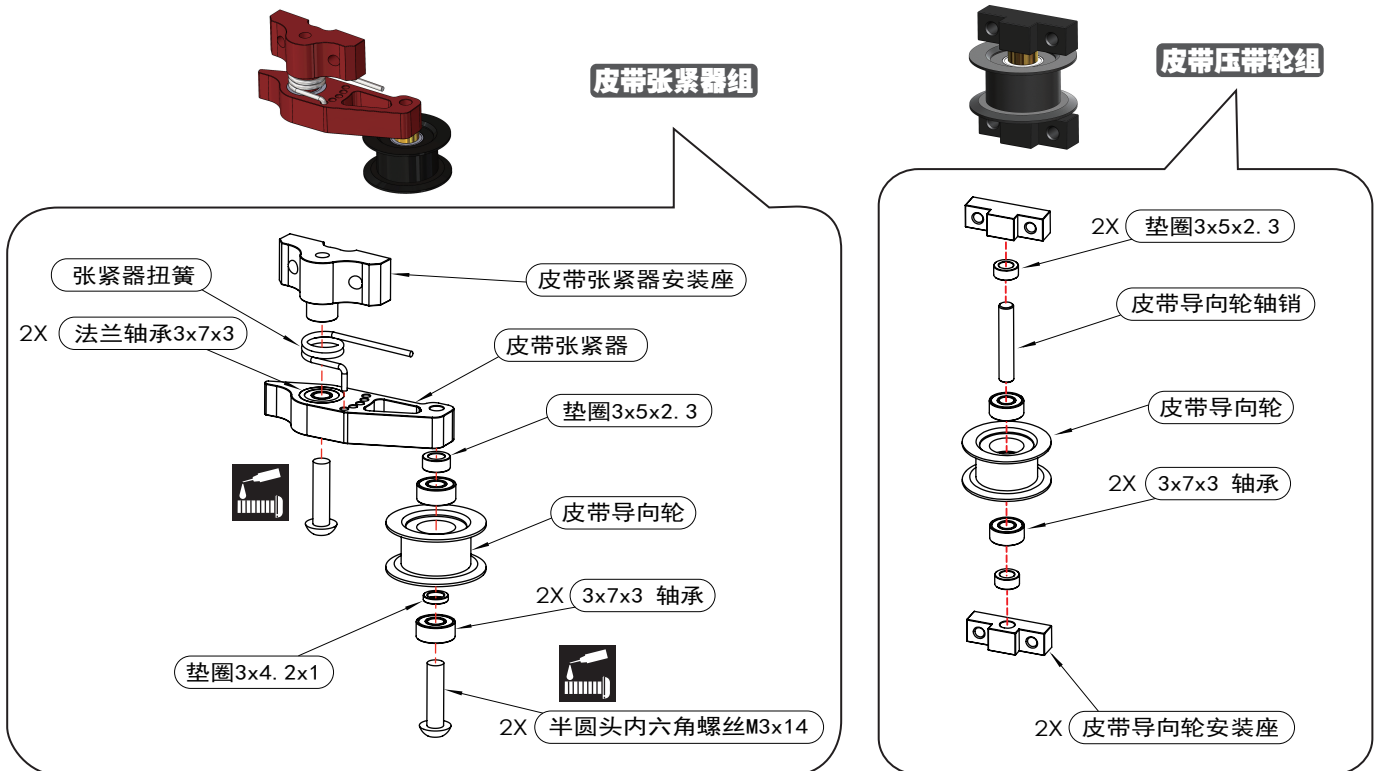
1-1 皮带压带轮组装 Tail Belt Tension Pulley assembly



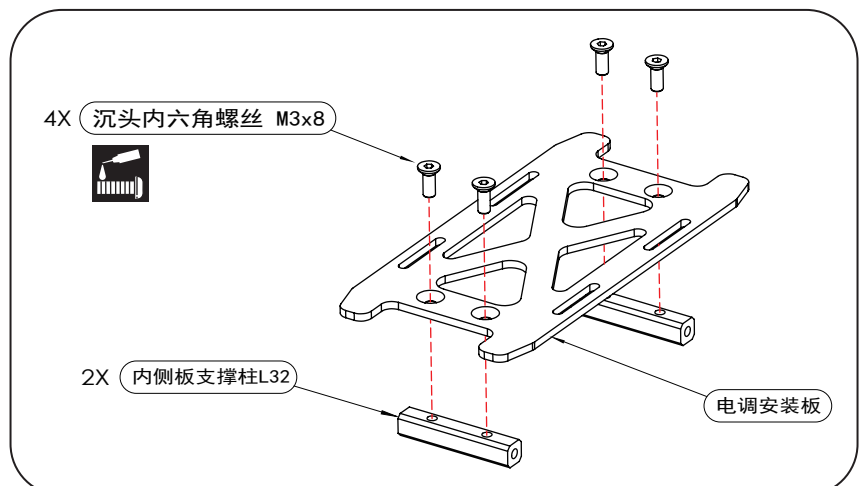
如果轴承安装时较松，请在轴承外壁涂少许绿色轴承胶。
 Apply a little green bearing glue to the outer wall of the bearing. If the bearing is loose during installation.



扭簧建议安装在皮带张紧器的第一个孔位（如下图）
 The belt tensioner spring is recommended to be installed in the first hole of the belt tensioner. (as shown below).



1-2 电调固定座组装 ESC Mount assembly

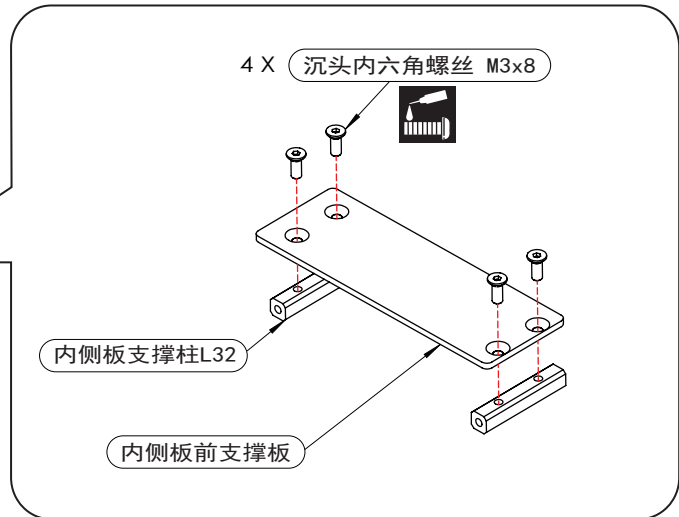
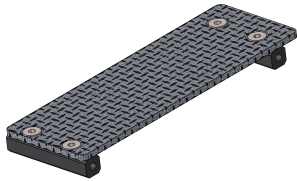


No.	Parts Description	零件名称	Qty
1	Frame Inside Support Plate	内侧板前支撑板	1
2	Fream Spacer	内侧板支撑柱L32	3
3	Gyro Mount Plate	陀螺仪安装板	1
4	Tail Boom Clip Mount	尾管管夹	2
5	Receiver Mount Plate	接收机安装板	1
6	Flat Head Socket Screw, M3x8	沉头内六角螺丝 M3x8	6
7	Flat Haed Socket Screw, M3x6	沉头内六角螺丝 M3x6	4

1-3 内侧板前支撑板 Frame Inside Support Mount



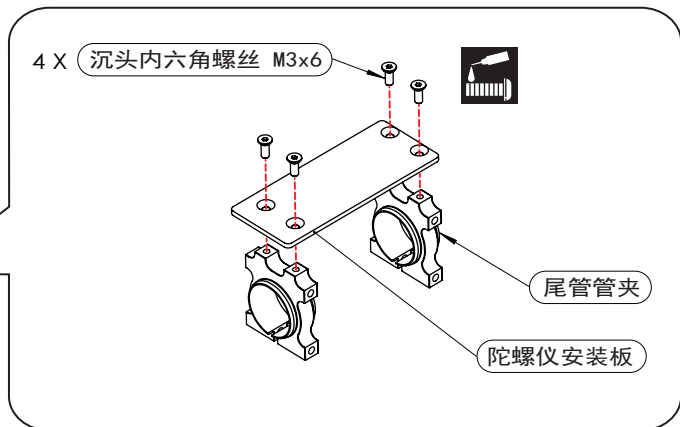
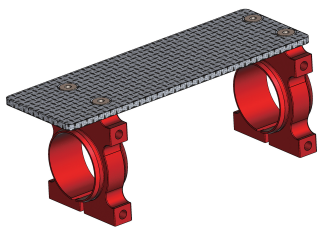
与侧板总装时注意短边向前。
Pay attention to the short side forward when assembling with the main frame.



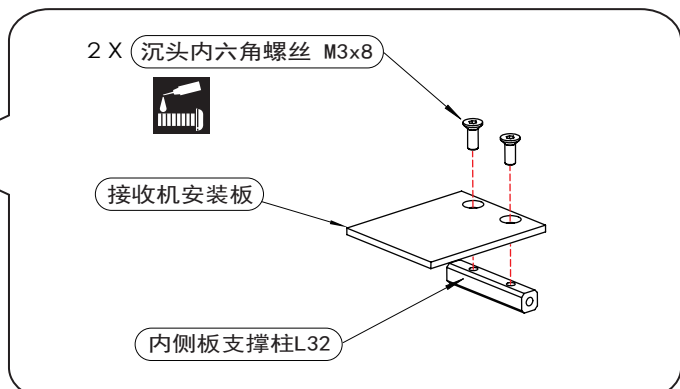
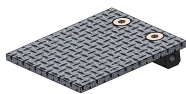
陀螺仪安装板 Gyro Mount



此包装内陀螺仪安装板是最长的。与侧板组合装配时注意长边朝向机头。
The gyro mounting plate is the longest. When assembling with the main frame, pay attention to the long side forward.



接收机安装板 Receiver Mount



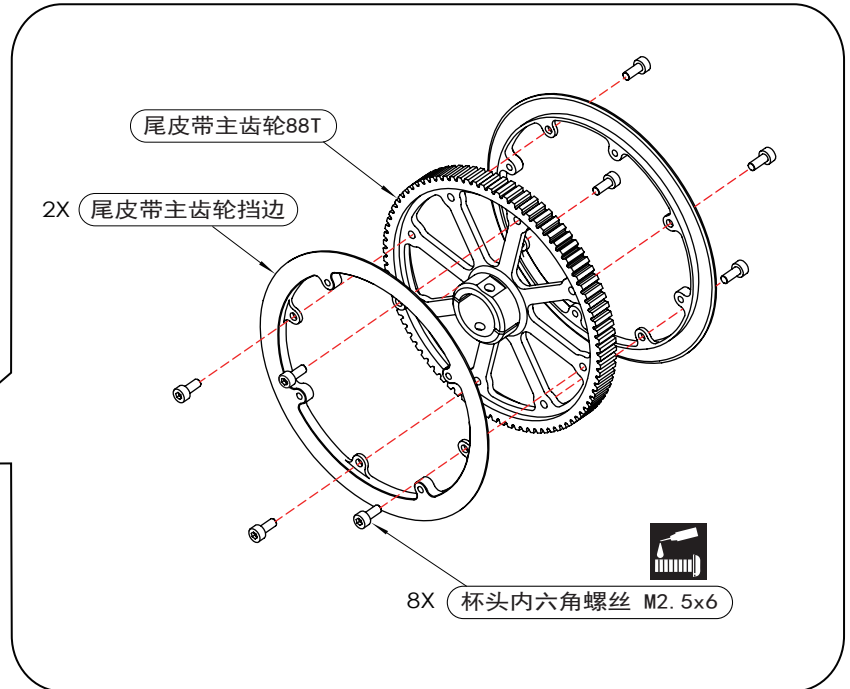
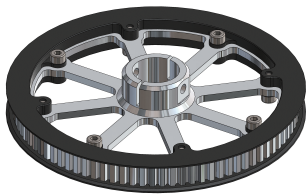
No.	Parts Description	零件名称	Qty
1	Tail Drive Gear Cover	尾皮带主齿轮挡边	2
2	Tail Drive Gear, 88T	尾皮带主齿轮 88T	1
3	Socket Screw, M2.5x6	杯头内六角螺丝 M2.5x6	8

No.	Parts Description	零件名称	Qty
1	Main Gear, 112T/10°	主齿轮 112T/10°	1
2	One Way Clutch Housing	单向轴承座	1
3	One Way Clutch Washer	单向轴承垫片	2
4	One Way Clutch Bearing	单向轴承	1
5	Socket Screw, M3x10	半圆头内六角螺丝 M3x10	5
6	Main gear mounting presser	碳纤主齿轮安装压片	1

1-4 尾传动大齿轮 Tail Drive Gear assembly



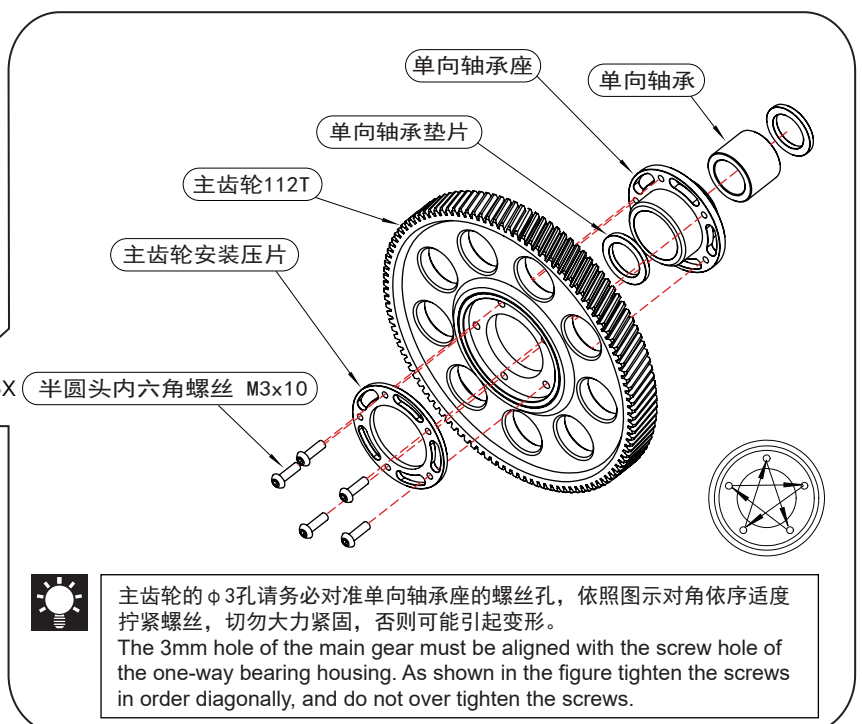
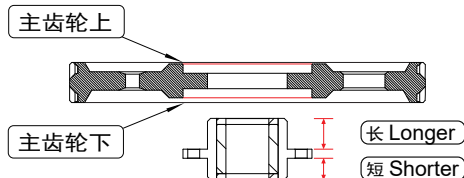
尾皮带主齿轮挡边各有四个2.5mm螺纹和四个2.5mm孔位。请将齿轮挡边错位装配，将螺丝穿过孔位锁入对边的螺纹孔。
The tail drive gear cover has four M2.5mm threads and four 2.5 mm holes, please offset the covers to align a hole from one cover with the thread from the other side.



1-5 主齿轮 Main Gear Set Assembly



请注意大齿轮安装方向，内外圈在同一平面的一面向上。单向轴承座从齿轮下方往上安装，较长端朝上。
Please pay attention to the installation direction of the one-way bearing housing. The one-way bearing housing is installed upward from the bottom of the main gear, with the longer end facing upward.



主齿轮的 ϕ 3孔请务必对准单向轴承座的螺丝孔，依照图示对角依序适度拧紧螺丝，切勿大力紧固，否则可能引起变形。
The 3mm hole of the main gear must be aligned with the screw hole of the one-way bearing housing. As shown in the figure tighten the screws in order diagonally, and do not over tighten the screws.

Step 1-6 Main Gear Set & Motor Mount assembly
1-7 主齿轮、电机固定座组装



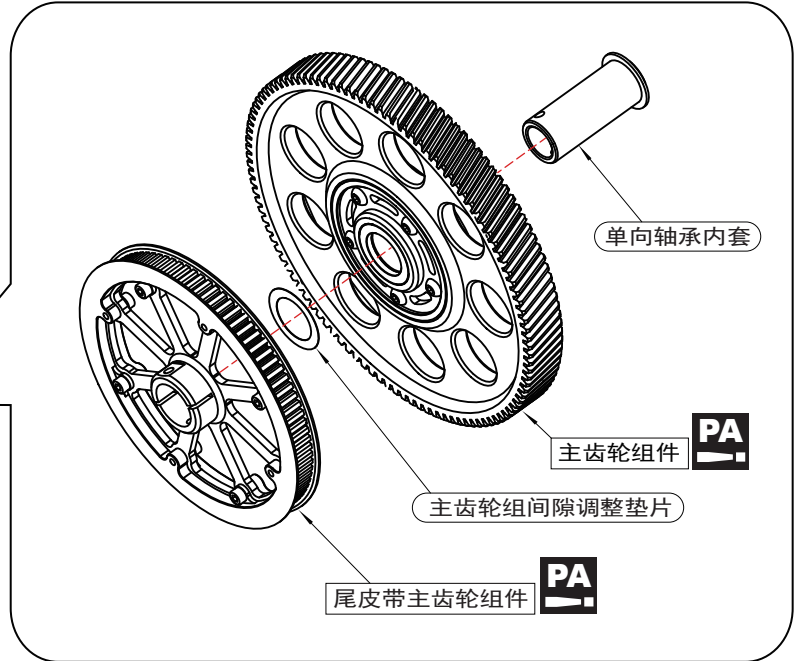
No.	Parts Description	零件名称	Qty
1	One Way Bearing Shaft	单向轴承内套	1
2	Main Gear Set Shim 14x20x0.1	主齿轮组间隙调整垫片 (0.1mm)	1
3	Main Gear Set Shim 14x20x0.2	主齿轮组间隙调整垫片 (0.2mm)	1

No.	Parts Description	零件名称	Qty
1	Motor Pinion Gear 12T/10°	12T电机齿 (10°)	1
2	Ball Bearing 10x19x5	主轴轴承10x19x5	1
3	Pinion Gear Nut	电机齿螺帽	1
4	Pinion Gear Bearing Block	电机齿轴承座	1
5	Motor Mount	电机安装座	1
6	Button Head Socket Screw M4x8	半圆头内六角螺丝 M4x8	2
7	Set Screw M4x4	内六角顶丝 M4x4	2

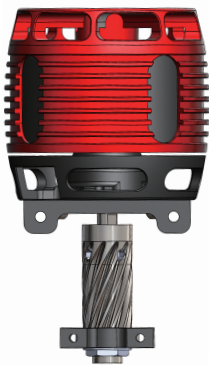
1-6 主齿轮组装 Main Gear Set assembly



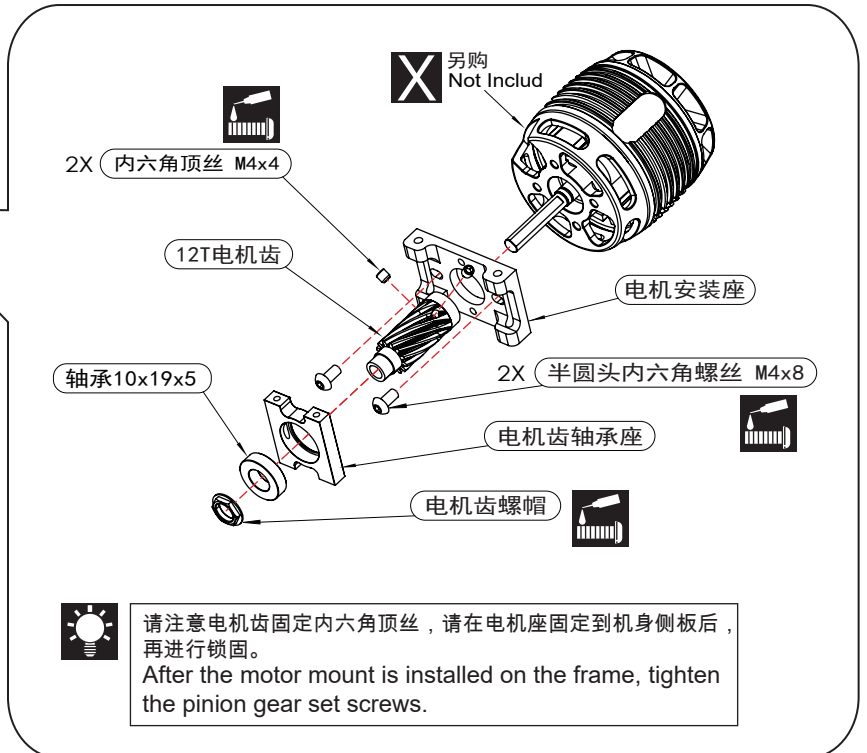
主齿轮组间隙调整垫片不是必需品，请根据齿轮间隙选择是否安装垫片。
The main gear set shim is not necessary. Please choose whether to install the shim according to the main gear set.



1-7 电机座组装 Motor Mount assembly



此面向上 Face Up



请注意电机齿固定内六角顶丝，请在电机座固定到机身侧板上，再进行锁固。
After the motor mount is installed on the frame, tighten the pinion gear set screws.

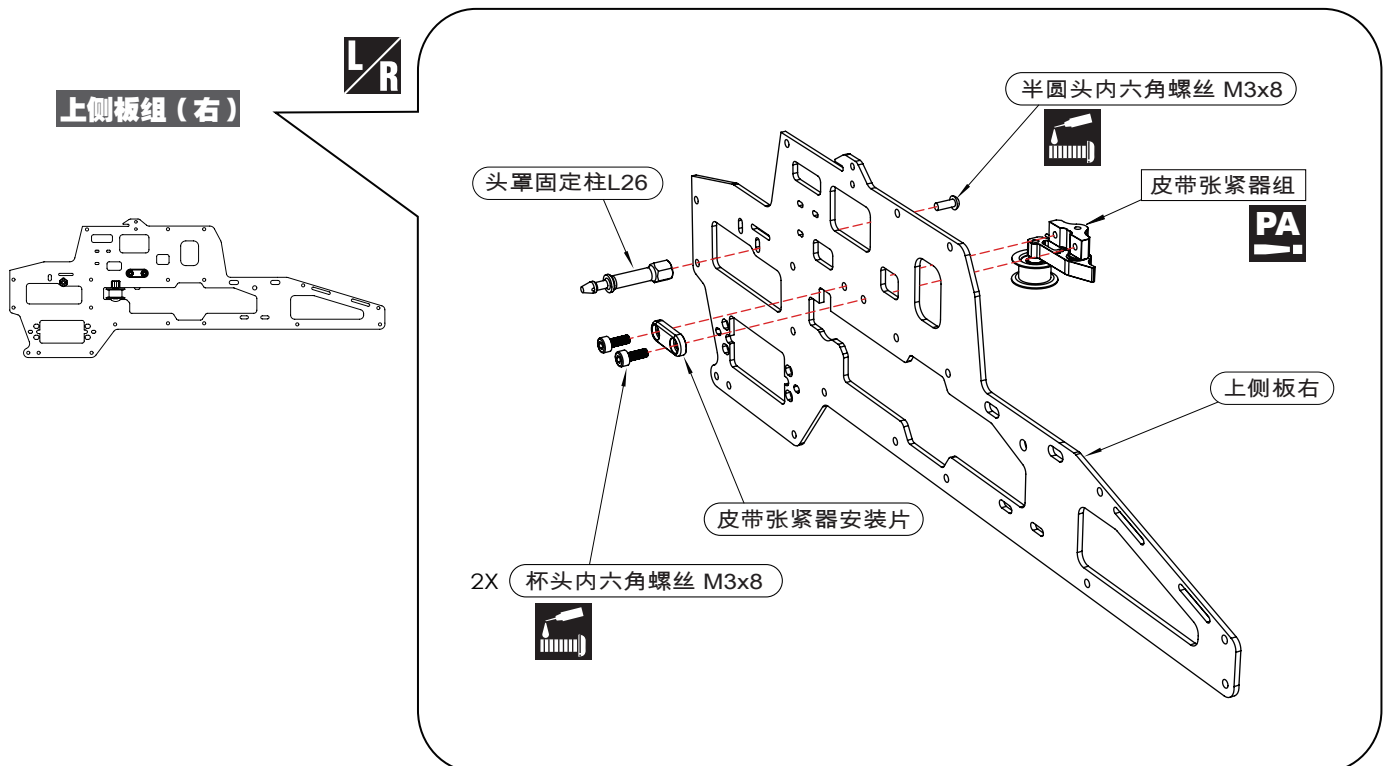
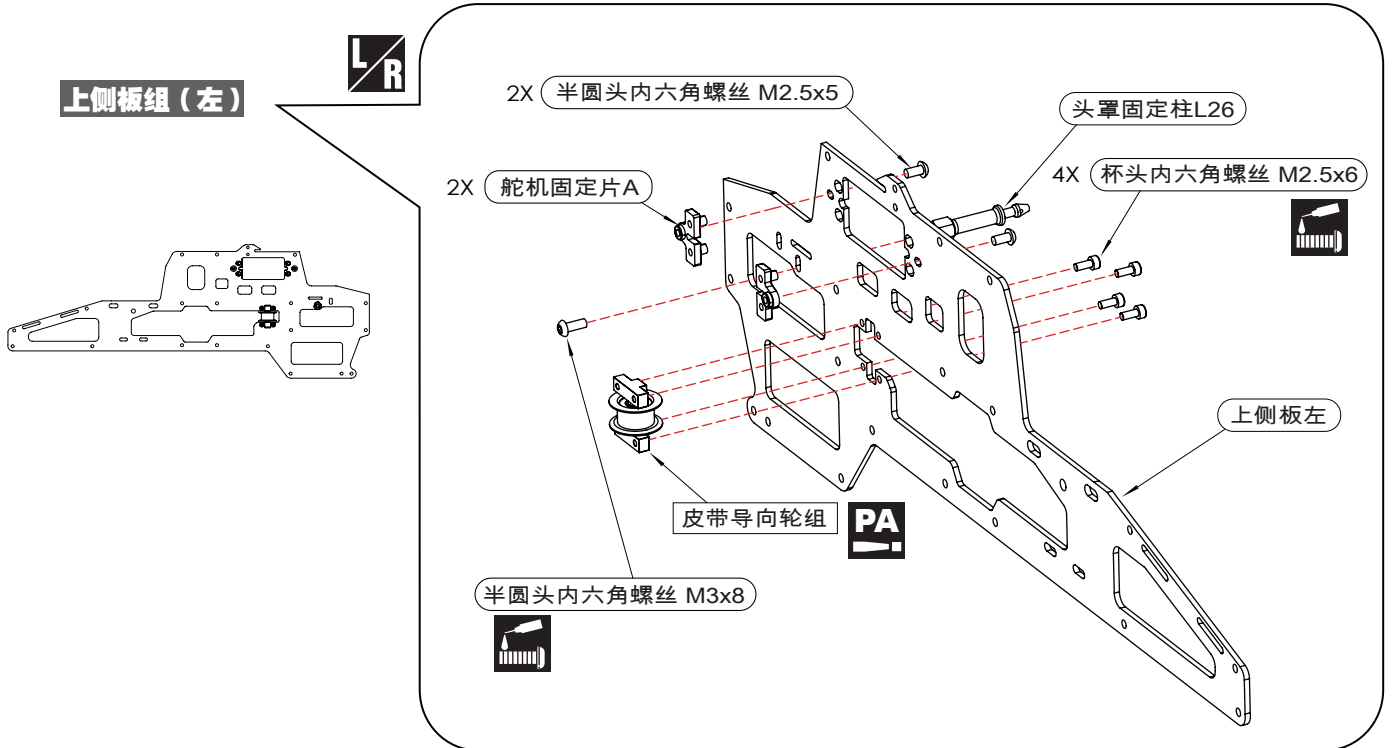
Step 2-1 Upper Frame assembly
内侧板组装



No.	Parts Description	零件名称	Qty
1	Upper Frame Lift	上侧板左	1
2	Upper Frame Right	上侧板右	1
3	Frame servo mount A	舵机固定片A	2
4	Belt tension pulley mount	皮带张紧器安装片	1
5	Canopy Retaining Post L26	700头罩固定柱L26	2
6	Button Head Socket Screw M2.5x5	半圆头内六角螺丝 M2.5x5	2
7	Socket Screw M2.5x6	杯头内六角螺丝 M2.5x6	4
8	Button Head Socket Screw M3x8	半圆头内六角螺丝 M3x8	2

No.	Parts Description	零件名称	Qty
9	Socket Screw M3x8	杯头内六角螺丝 M3x8	2

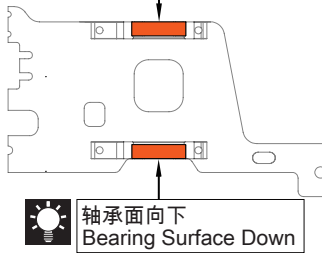
2-1 内侧板组装 Upper Frame assembly




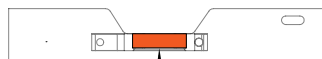
No.	Parts Description	零件名称	Qty
1	Main Shaft Bearing	主轴轴承 10x19x5	3
2	Main Shaft Bearing Block	主轴轴承座	3
3	Frame Reinforcing Plate	侧板加强件	2
4	Servo Mount	舵机安装座	4
5	Button Head Socket Screw M3x6	半圆头内六角螺丝 M3x6	6
6	Socket Screw M3x12	杯头内六角螺丝 M3x12	8
7	Socket Screw M3x40	杯头内六角螺丝 M3x40	4
8	Nylon Nut M3	自锁螺母 M3	4


2-2 内侧板组装 Upper Frame Bearing Block assembly

 轴承面向上
Bearing Surface Up



 轴承面向下
Bearing Surface Down



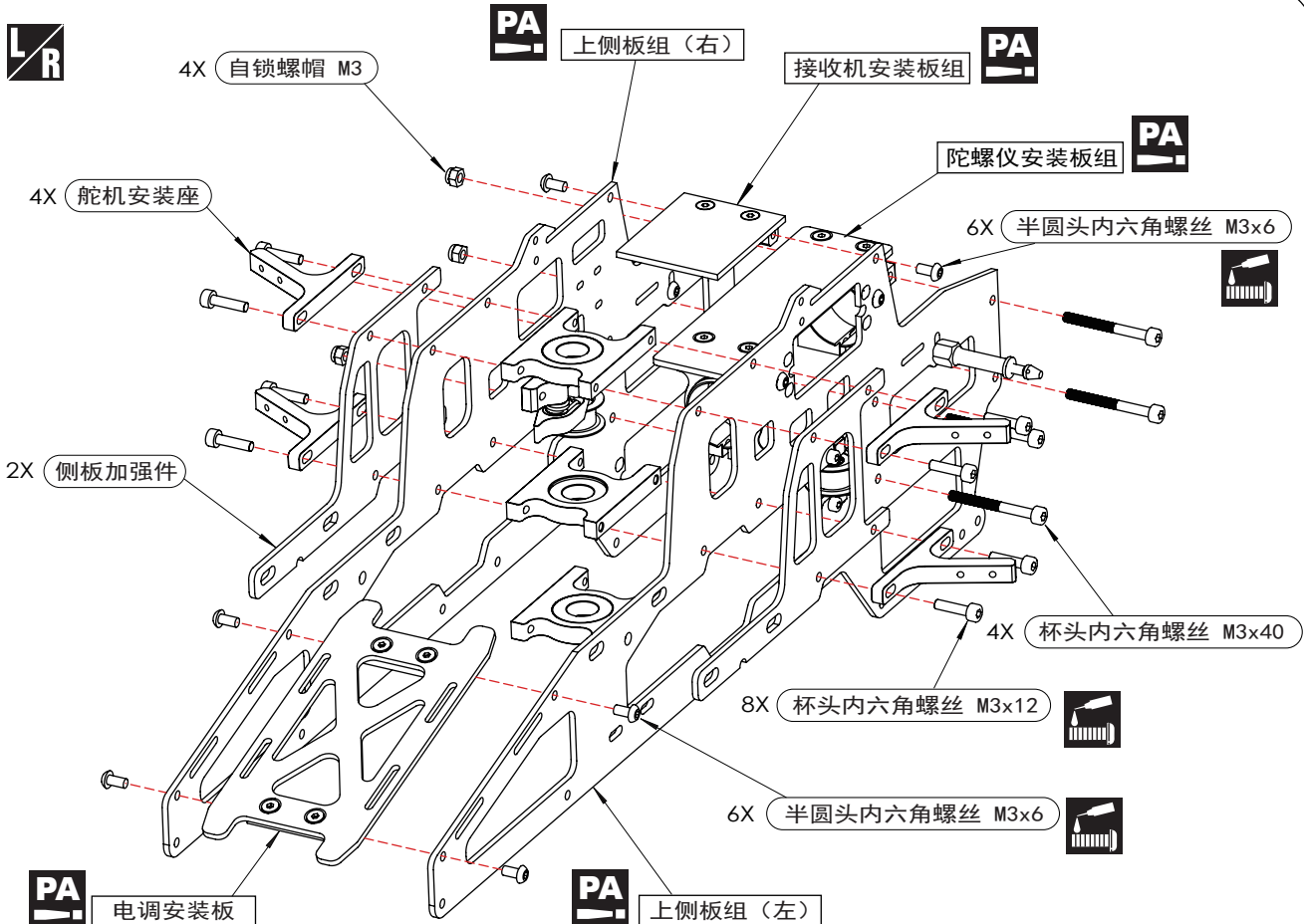
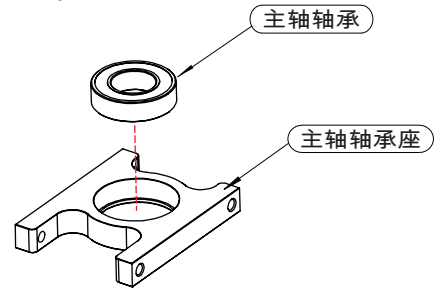
 轴承面向上
Bearing Surface Up



如果轴承安装时较松，请在轴承外壁涂少许绿色轴承胶。
Apply a little green bearing glue to the outer wall of the bearing.
If the bearing is loose during installation.

主轴轴承座组 Bearing Block assembly

x3



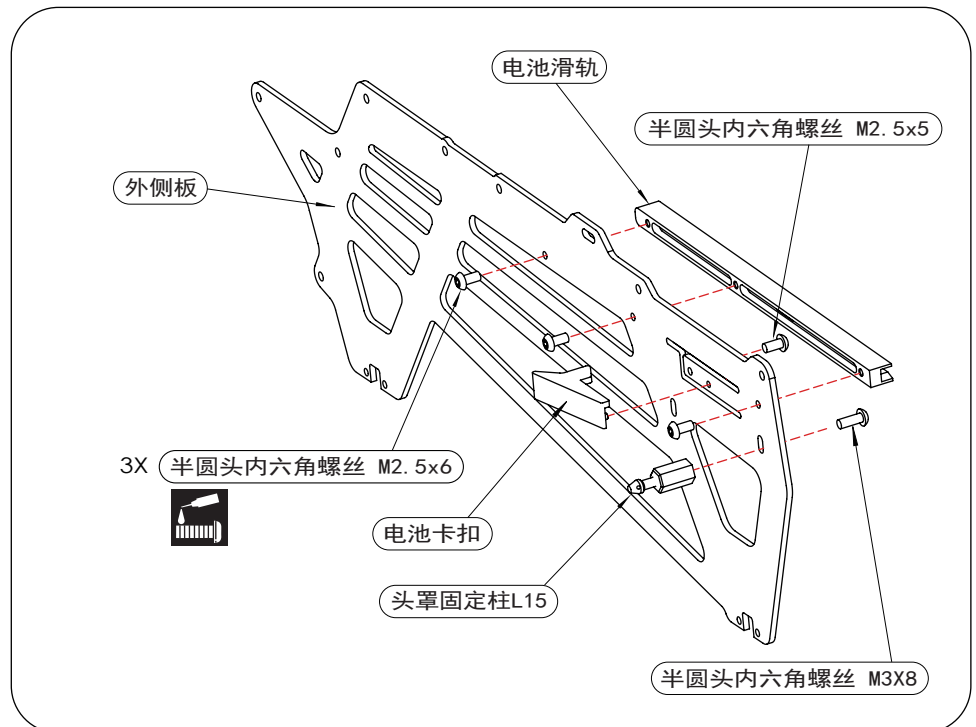
Step 2-3 Lower Frame assembly
2-4 外侧板组装

No.	Parts Description	零件名称	Qty
1	Lower Frame	外侧板	2
2	Battery Tray Rail	电池滑轨	2
3	Battery Tray Clip	电池卡扣	1
4	Canopy Retaining Post L15	头罩固定柱 L15	2
5	Button Head Socket Screw M2.5x5	半圆头内六角螺丝 M2. 5x5	1
6	Button Head Socket Screw M2.5x6	半圆头内六角螺丝 M2. 5x6	6
7	Button Head Socket Screw M3x8	半圆头内六角螺丝 M3x8	2

2-3 右外侧板安装组 Right Side Lower Frame assembly



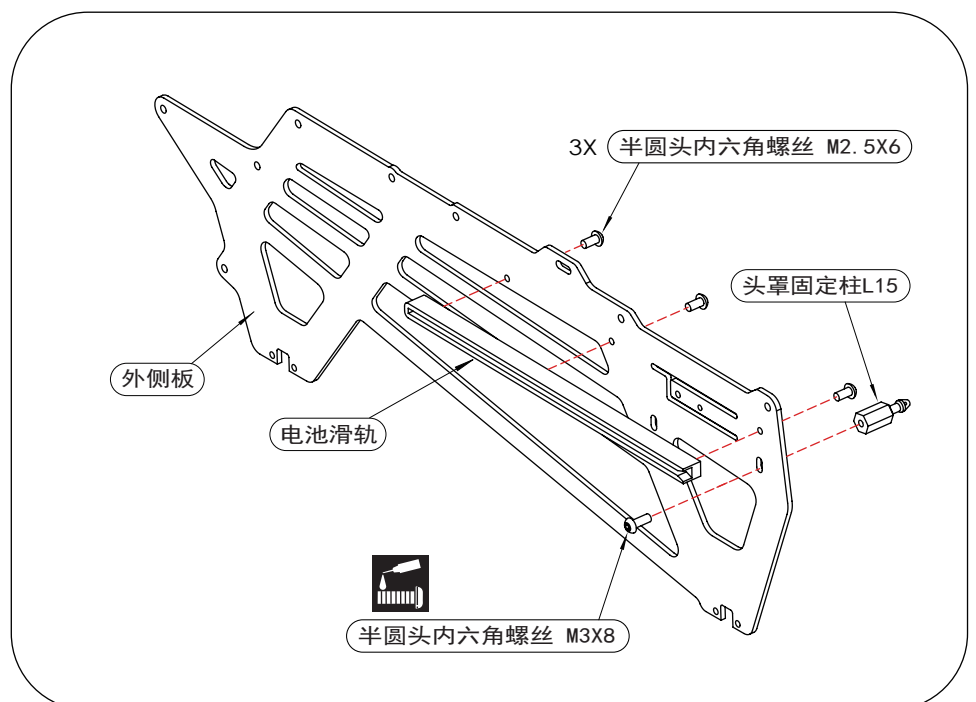
请注意电池滑轨开口位置朝前。
Please note that the opening of the battery rail is facing forward



2-4 左外侧板安装组 Left Side Lower Frame assembly



请注意电池滑轨开口位置朝前。
Please note that the opening of the battery rail is facing forward



No.	Parts Description	零件名称	Qty
1	In Side Frame Spacer L32	内侧板支撑柱L32	2
2	Out Side Frame Spacer L20	外侧板支撑柱L20	14
3	Landing Skid Mounting Block	整体脚架安装座	2
4	Socket Screw M2.5x6	杯头内六角螺丝 M2.5x6	8
5	Socket Screw M3x10	杯头内六角螺丝 M3x10	2
6	Socket Screw M3x30	杯头内六角螺丝 M3x30	14
7	Button Head Socket Screw M4x10	半圆头内六角螺丝 M4x10	4
8	M3 Aluminum Washer	铝合金垫片 M3	16

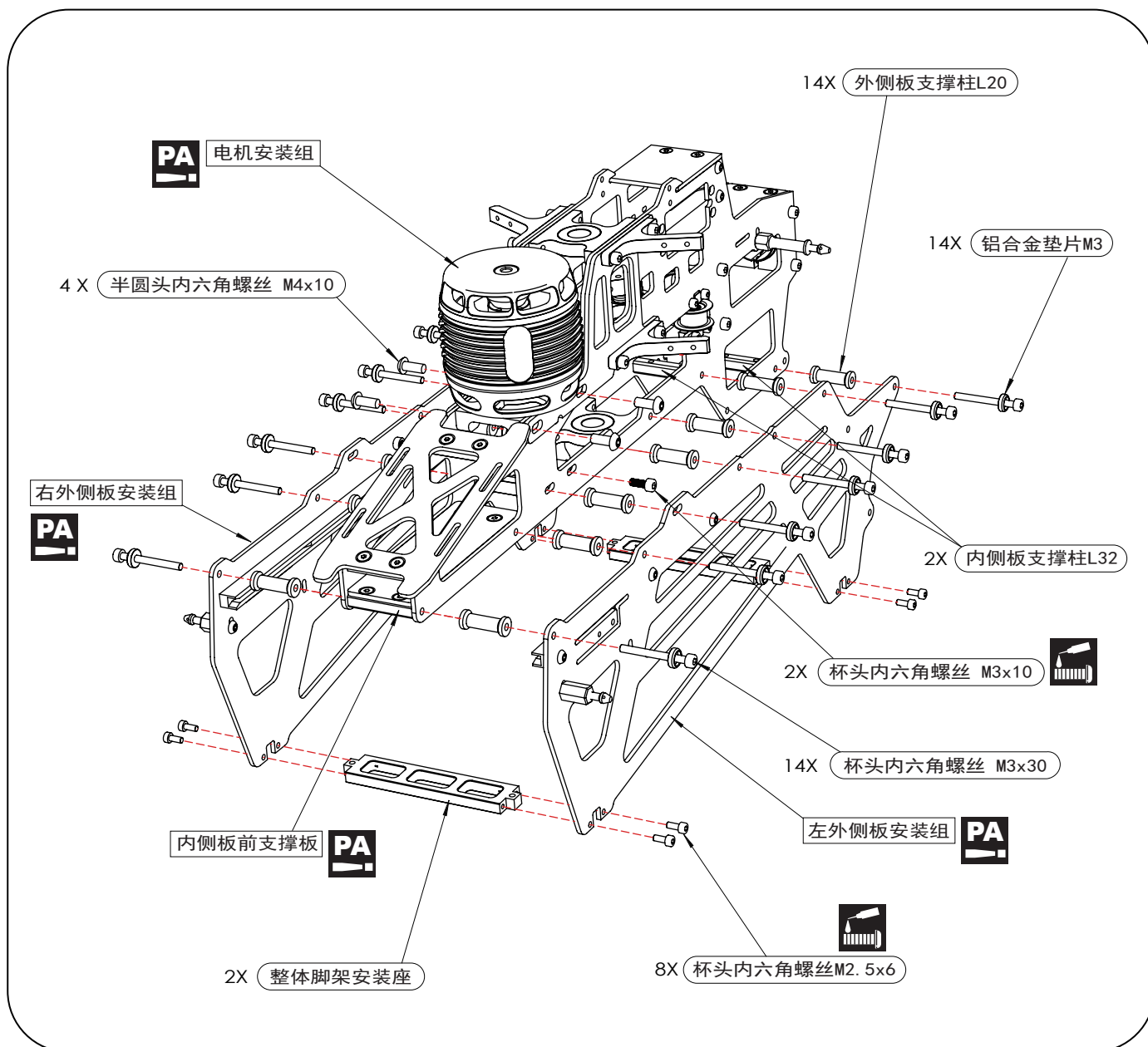
2-5 机架总装 Lower Frame & Upper Frame Unit assembly



请先不要锁紧电机安装组的固定螺丝，当主齿轮安装以后，我们需要调整齿轮间隙，然后再锁紧。
Please fix the screws of the motor mounting group first. Do not tight the screws, after the main gear is installed lock after adjusting the gear clearance.



使用杯头内六角螺丝M3X30固定内外侧板时，请注意左右两侧的螺丝对称交替锁紧，以免造成机身内外侧板扭曲。
Please pay attention when using M3X30 Socket screws to fix the Lower and Upper frame unit. The left and right screws are slowly tightened at the same time, so as not to cause the Lower and Upper frame distortion.



No.	Parts Description	零件名称	Qty
1	Main Shaft	700主轴	1
2	Main Shaft Stopper	主轴定位环	1
3	Tail Boom	700尾管	1
4	Socket Screw M3x22	杯头内六角螺丝 M3x22	1
5	Set Screw M2.5x10	杯头内六角螺丝M2.5x10	1
6	Nylon Nut M3	自锁螺母 M3	1

No.	Parts Description	零件名称	Qty
1	E700 Tail Drive Belt	700尾传动皮带	1

2-6 2-7主传动系统组装 Install Main Transmission



安装主齿轮组时请先把尾传动皮带套在尾传动大齿轮上。此处需要先把主齿轮与主轴固定好以后，向上提拉主轴，主轴定位环向下压然后锁紧定位环固定的内六角螺丝。上下移动主轴时应没有间隙。

When installing the main gear set, first put the tail drive belt on the belt tail drive gear. After fixing the main gear and the main shaft, pull up the main shaft and the main shaft stopper presses down. Then tight main shaft stopper set screws. There should be no gap when moving the main shaft up and down.



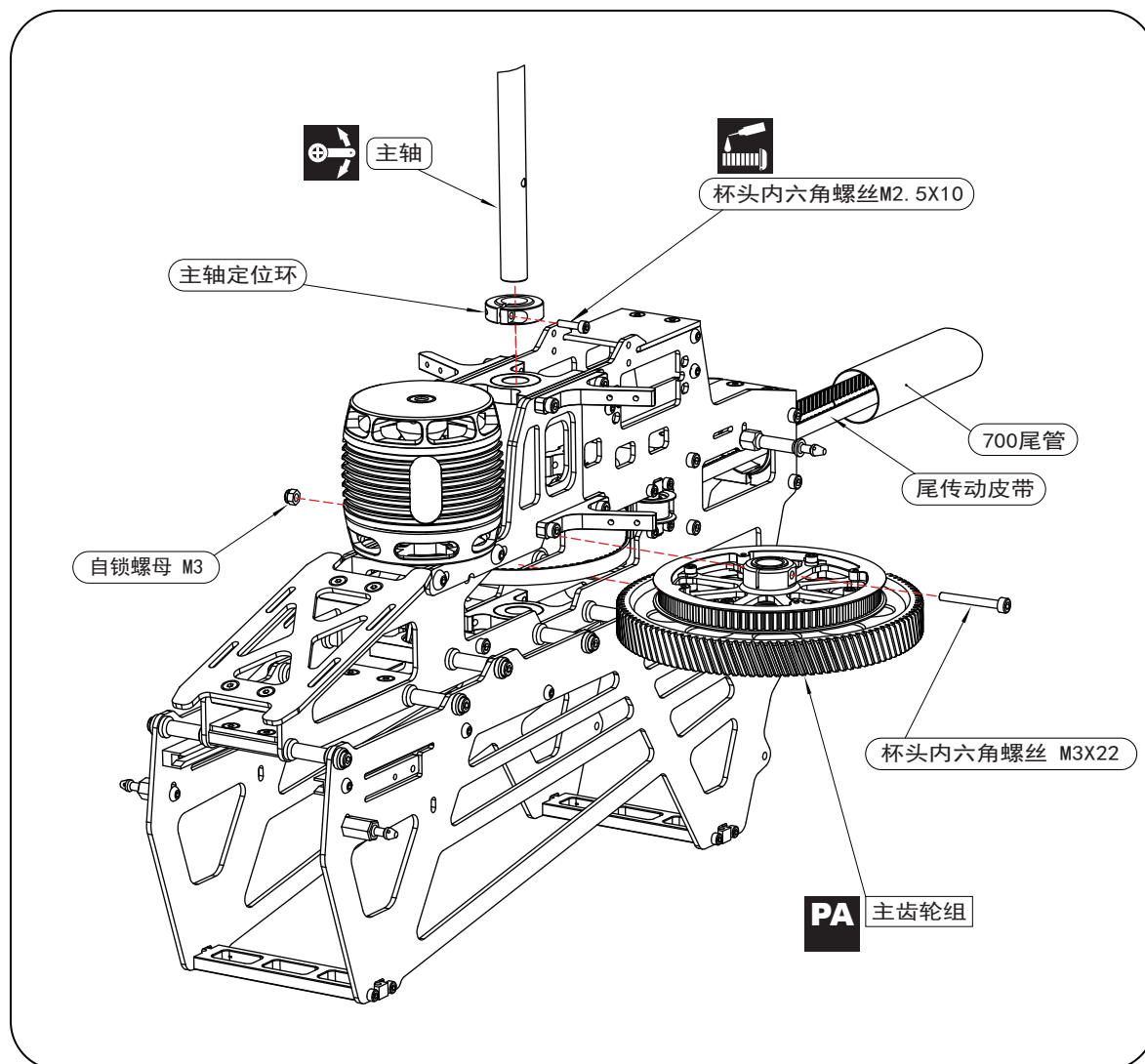
主齿轮安装好以后，需要调整主齿轮与电机齿的间隙。间隙过小会带来较大噪音、震动、还会加速齿轮磨损，间隙过大容易出现扫齿现象。建议齿轮间隙为0.1-0.2mm。

After the main gear is installed, the gap between the main gear and the motor pinion needs to be adjusted. If the gap is too small, it will bring greater noise, vibration, and accelerate gear wear. If the gap is too large, it is prone to tooth sweeping. Recommended gear clearance is 0.1-0.2mm.



尾管在5-5零件包内

Tail Boom in the Bag 5-5



Step 3-1 Swashplate & FBL Washout Block assembly
3-2 倾斜盘、相位摇臂组组装



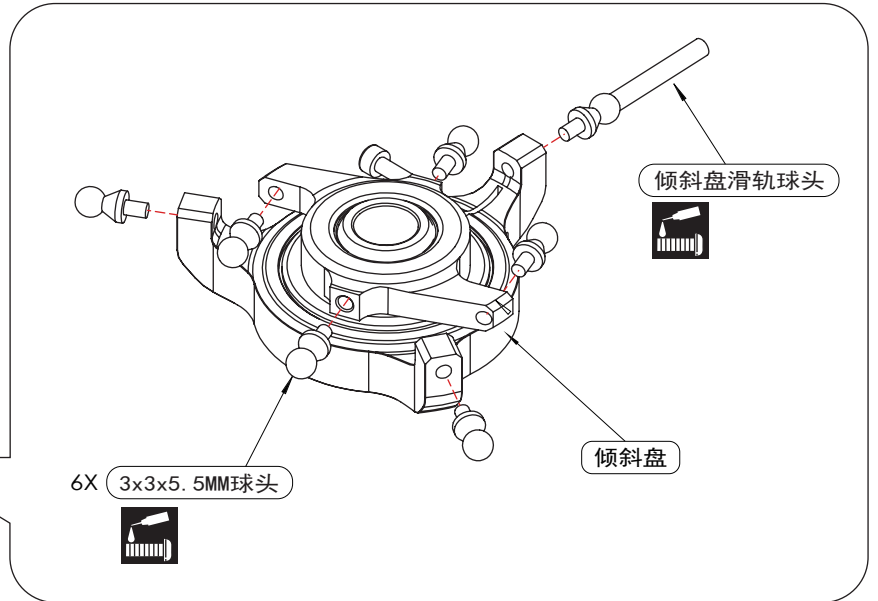
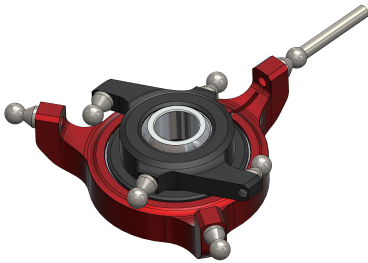
No.	Parts Description	零件名称	Qty
1	Swashplate	倾斜盘	1
2	Swashplate Post	倾斜盘滑轨球头	1
3	Linkage Ball 3x3x5.5mm	3x3x5.5MM球头	6

No.	Parts Description	零件名称	Qty
1	Washout Arm	相位摇臂	2
2	Washout Arm Pin	相位摇臂轴销	2
3	FBL Washout Linkage A Arm	牛角摇臂	2
4	Flange Bearing 3x7x3	法兰轴承 F3x7x3	4
5	Collar 3x5x2.3	铜垫片 3x5x2.3	2
6	M2 E Clip	M2 E型卡	4

3-1 倾斜盘组装 Swashplate assembly



倾斜盘滑轨球头请安装到倾斜盘有开槽的安装位。
Please install the swashplate post to the slotted installation position of the swashplate.



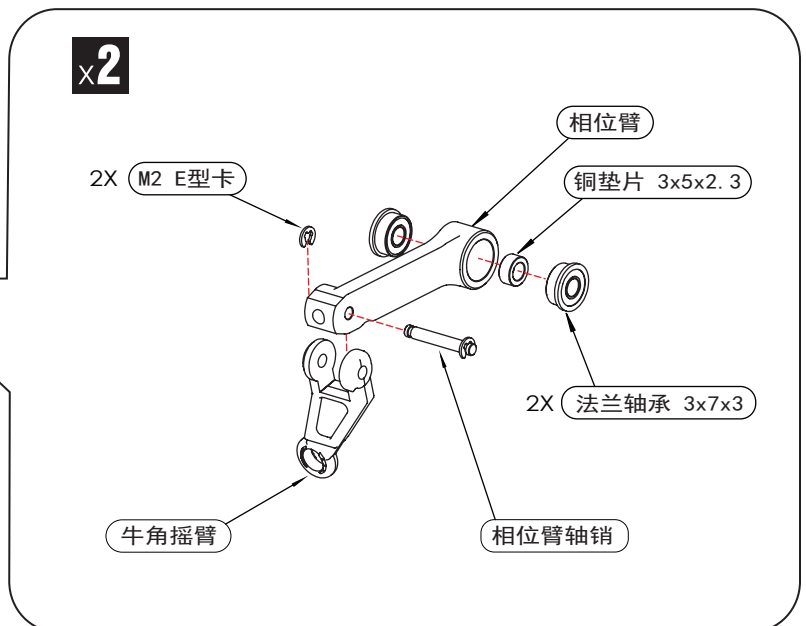
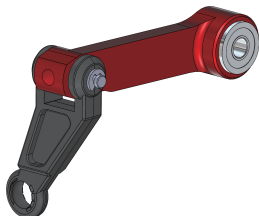
3-2 相位摇臂组 FBL Washout Block assembly



如果轴承安装时较松，请在轴承外壁涂少许绿色轴承胶。
Apply a little green bearing glue to the outer wall of the bearing. If the bearing is loose during installation.



相位臂上的M3顶丝是选装件新机没有磨损出虚位的情况下无需安装。
The M3 set screw on the washout arm is an optional part. The new machine does not need to be installed if it is not worn out.



Step 3-3 Rotor Grip & Rotor Head assembly
3-4 桨夹组、旋翼头组装



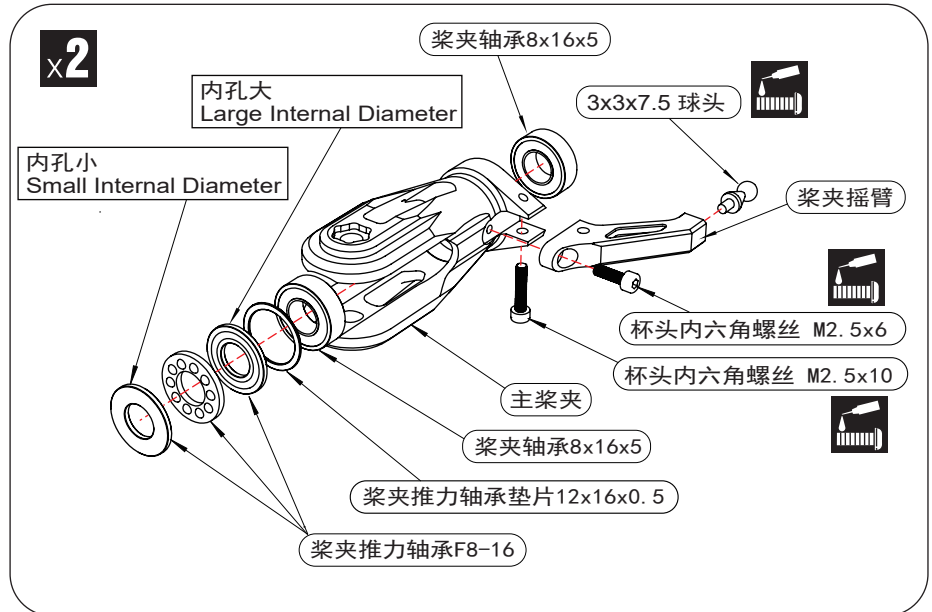
No.	Parts Description	零件名称	Qty
1	Rotor Grip	主旋翼夹	2
2	Rotor Grip Lever	桨夹摇臂	2
3	Rotor Head Hub	旋翼头中联	1
4	Rotor Head Damper	旋翼头减震套	2
5	Spindle	横轴	1
6	Linkage Ball 3x3x7.5	3x3x7.5球头	2
7	Rotor Grip Collar	旋翼头台阶垫片	2
8	Rotor Grip Shim	桨夹间隙调整垫片	2
9	Nylon Nut M5	自锁螺帽 M5	2

No.	Parts Description	零件名称	Qty
10	Thrust Collar 12x16x0.5	桨夹推力轴承垫片12x16x0.5	2
11	Ball Bearing 8x16x5	桨夹轴承8x16x5	4
12	700 Thrust Bearing	700桨夹推力轴承	2
13	Button Head Socket Screw M3x25	半圆头内六角螺丝 M3x25	2
14	Socket Screw M5x10	横轴固定螺丝 M5x10	2
15	Socket Screw M2.5x6	杯头内六角螺丝 M2.5x6	2
16	Socket Screw M2.5x10	杯头内六角螺丝 M2.5x10	2
17	Washer M5	垫片M5	2
18	Main Blade Bolt Set M5	主旋翼固定螺丝	2

3-3 桨夹组 Rotor Grip assembly



如果轴承安装时较松，请在轴承外壁涂少许绿色轴承胶。
Apply a little green bearing glue to the outer wall of the bearing. If the bearing is loose during installation.



3-4 旋翼头组装 Rotor Head assembly



桨夹间隙调整垫片不是必需品，请根据桨夹间隙选择是否安装垫片。
The rotor grip gap adjustment shim is not necessary. Please choose whether to install the shim according to the rotor grip clamp gap.



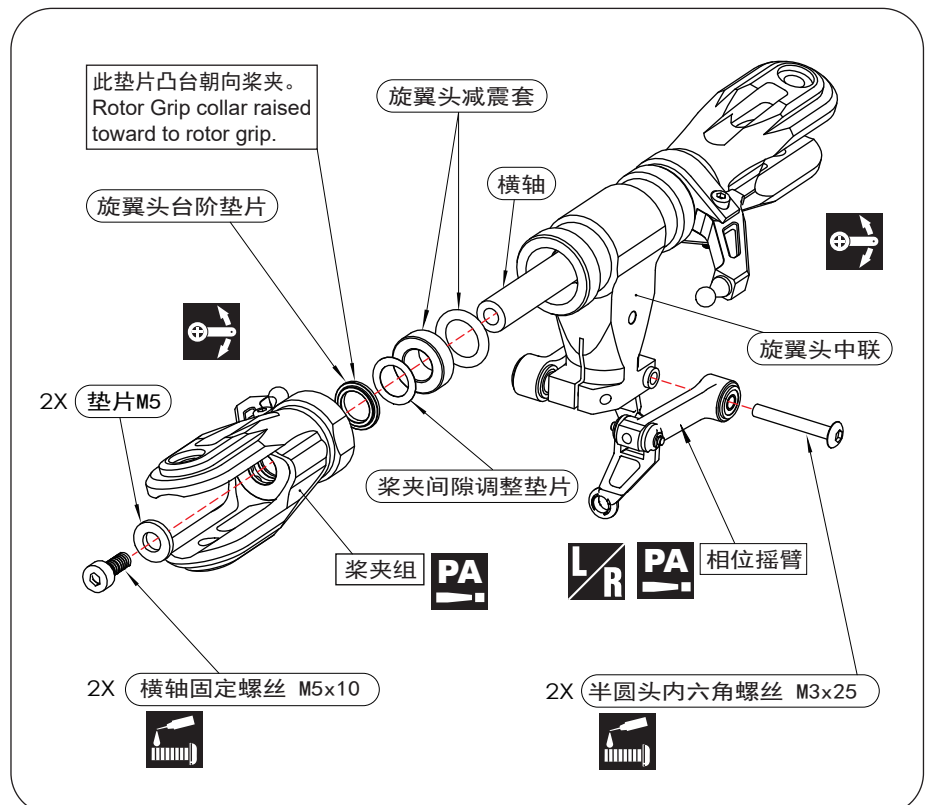
横轴固定螺丝请勿过度锁紧，建议增加螺丝胶的用量。
Do not over tighten the spindle screws.

旋翼头减震套的O型圈请适当涂抹硅脂润滑剂。
It is necessary to apply silicone grease when installing the rotor head damper.



此面朝向中联安装

This side faces to center hub installation



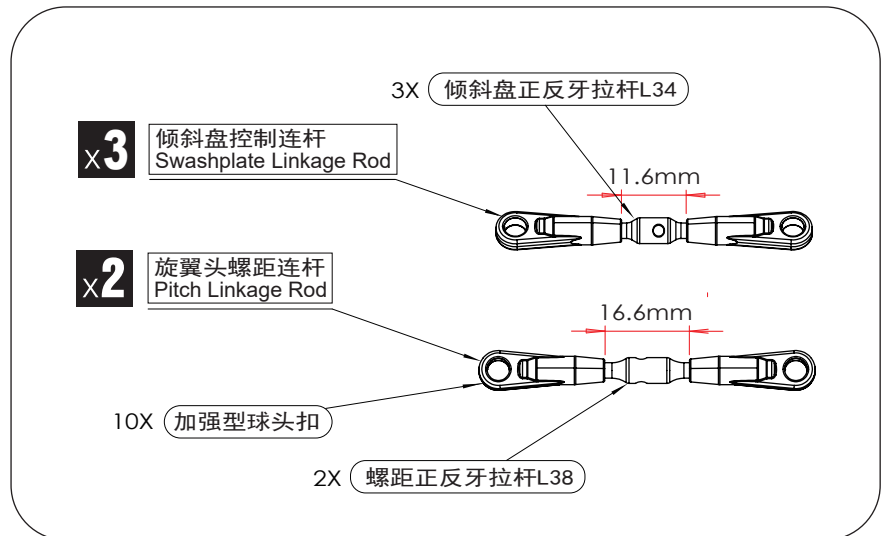
No.	Parts Description	零件名称	Qty
1	Anti-Rotation Bracket	倾斜盘滑轨	1
2	Enhanced Universal Ball Link	加强型球头扣	10
3	Linkage Rod L34	正反牙拉杆 L34	3
4	Linkage Rod L38	正反牙拉杆 L38	2
5	Socket Screw M2.5x6	杯头内六角螺丝 M2.5x6	4
6	Socket Screw M3x20	杯头内六角螺丝 M3x20	1
7	Nylon Nut M3	M3防松螺帽	1

3-5 旋翼头连杆组装 Rotor Head Linkage assembly



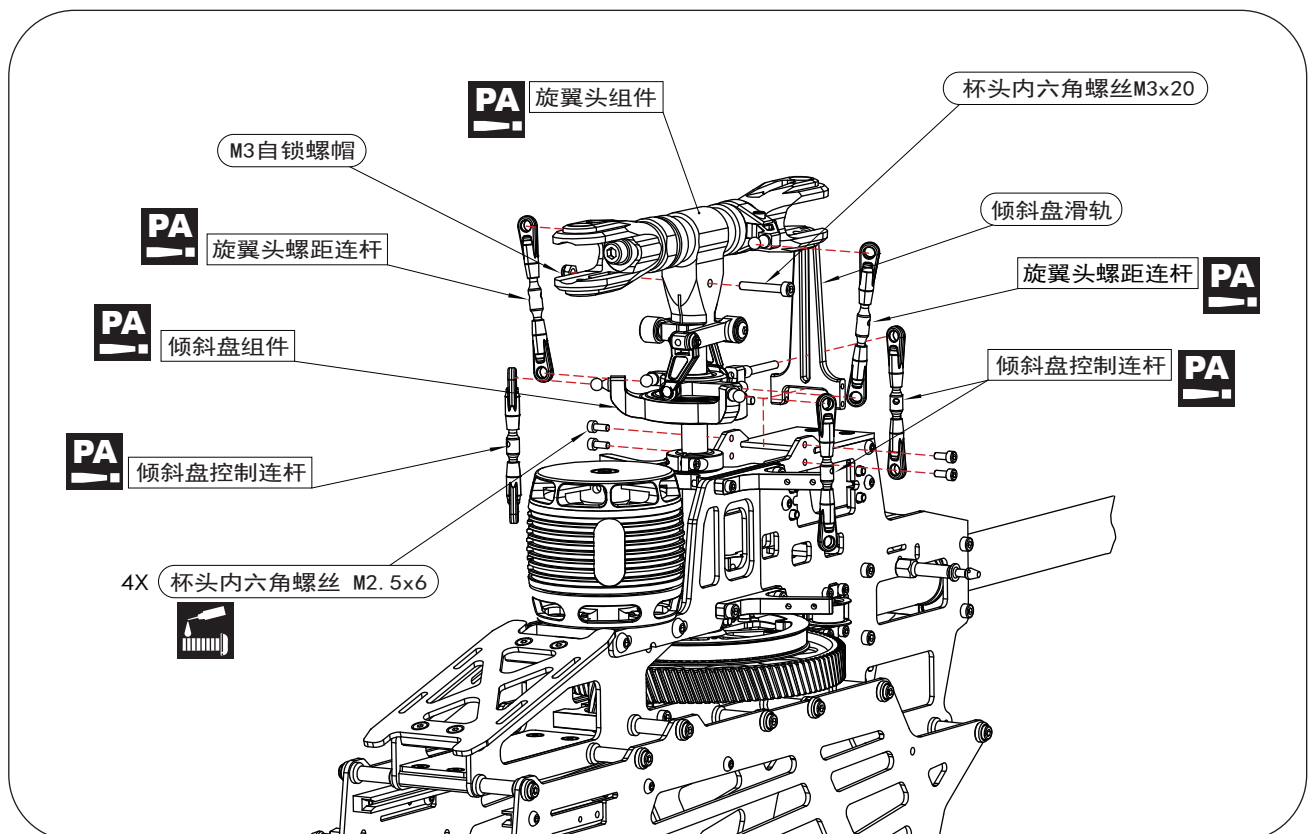
拉杆长度只是参考值，使用不同型号舵机连杆长度可能会有差异。

The length of the linkage rod is only a reference value, use different types of servos the length of the linkage rod may vary.



正反牙拉杆中心孔偏向反牙螺纹一端。

The center hole of the linkage rod is biased to one end of the opposite thread.



No.	Parts Description	零件名称	Qty
1	Tail Unit Housing	尾波箱安装座	1
2	Tail Housing Plate	尾波箱轴承座	2
3	Tail Housing Spacer	尾波箱支撑柱	1
4	Tail Drive Shaft	尾轴	1
5	Tail Drive Pulley T18	尾后传动皮带轮18T	1
6	Tail Boom Support Bracket	尾撑管夹	1
7	Vertical Fin Bracket	垂尾管夹	1
8	Socket Screw M3x8	杯头内六角螺丝 M3x8	1

No.	Parts Description	零件名称	Qty
9	Button Head Socket Screw M3x6	半圆头内六角螺丝 M3x6	4
10	Set Screw M3x3	内六角顶丝 M3x3	3
11	Flanged Bearing 5x13x4	尾波箱轴承 5x13x4	2

4-1 尾波箱组装 Tail Gear Box assembly

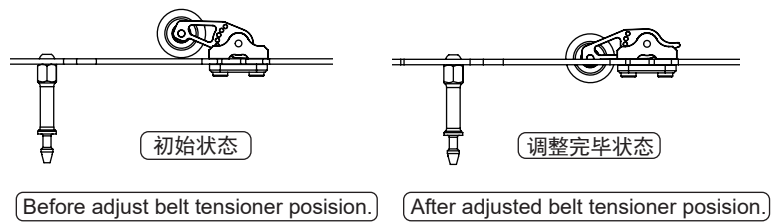


尾波箱轴承座组装时请注意，法兰轴承的法兰边缘要向内侧，朝向皮带轮方向。如安装错误极易发生机械故障，请务必注意。
Assembling the tail gear box housing plate, please note that the flanged bearing edge of the flange bearing should face inward and the direction of the tail drive pulley.

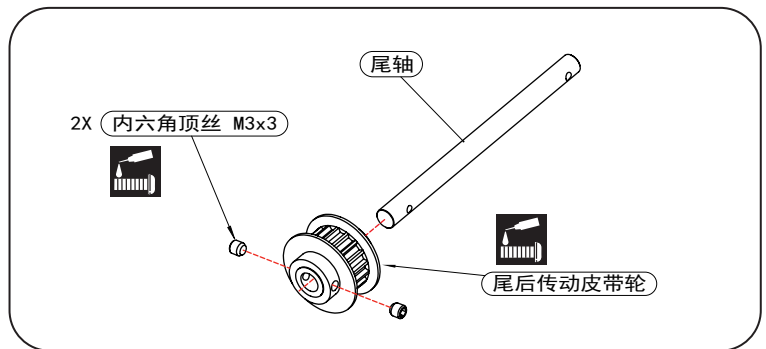
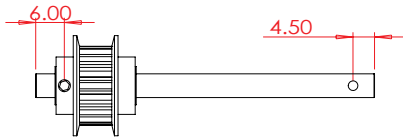


尾波箱组装好以后需要调整皮带松紧。请逐渐向后拉尾管，前置压带轮会向右侧板移动，当皮带紧张器刚好贴到侧板上时，就是调整到了最佳状态。这时再拧紧尾管管夹的固定螺丝。

After the tail gear box is assembled, the belt tension needs to be adjusted. Slowly to pull the tail boom backwards, and the front belt tensioner pulley will gradually move to the right side main frame. When the belt tensioner is just attached to the main frame, it is the best state of the tensioner. Finally, tighten the fixing screws of the tail boom clamp.

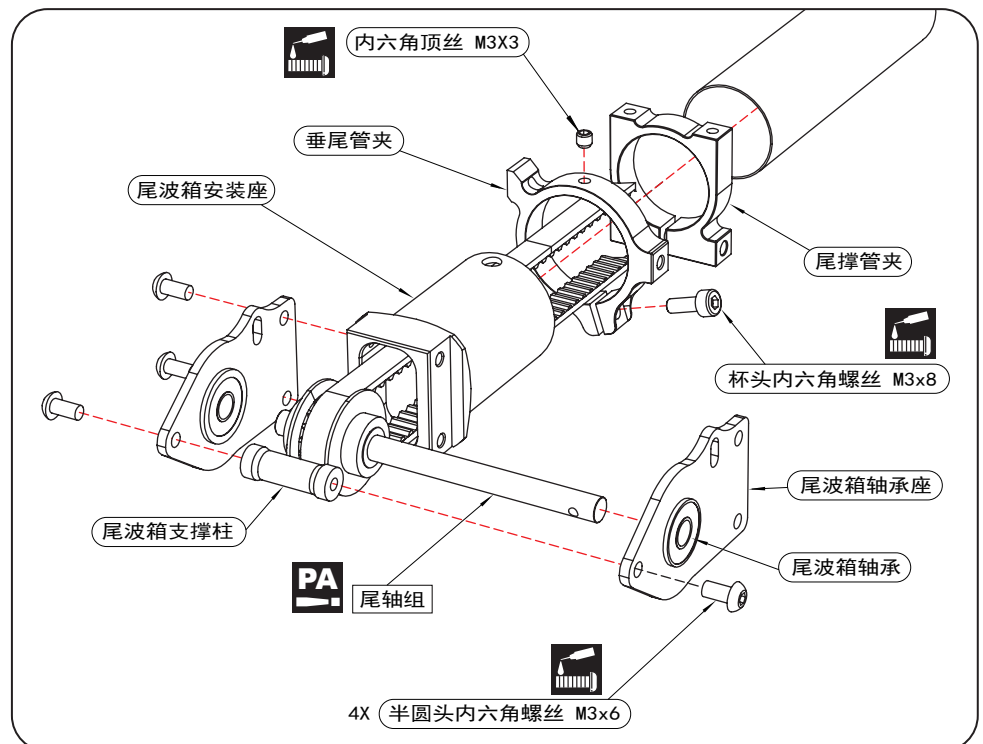
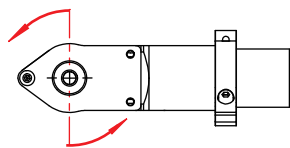


尾轴组



主旋翼顺时针旋转时，从右侧观察尾轴旋转方向应是逆时针转动，如方向错误请调整皮带扭曲方向。

When the main rotor rotates clockwise, the direction of the tail shaft should be rotates counterclockwise when viewed from the right side. If the direction is wrong, please adjust the direction of the belt direction.



No.	Parts Description	零件名称	Qty
1	Tail Pitch Control Link	尾螃蟹爪球头扣	2
2	Tail Pitch Control Fork	尾螃蟹爪	1
3	Tail Pitch Control Slider Bushing	尾滑套	1
4	Tail Pitch Slider Collar	尾滑块内衬	1
5	Tail Pitch Slider	尾滑环	1
6	Tail Pitch Control Link Pin	尾螃蟹爪安装柱	2
7	Flange Bearing	尾滑套轴承	2
8	E Clip M2	M2 E型卡	4

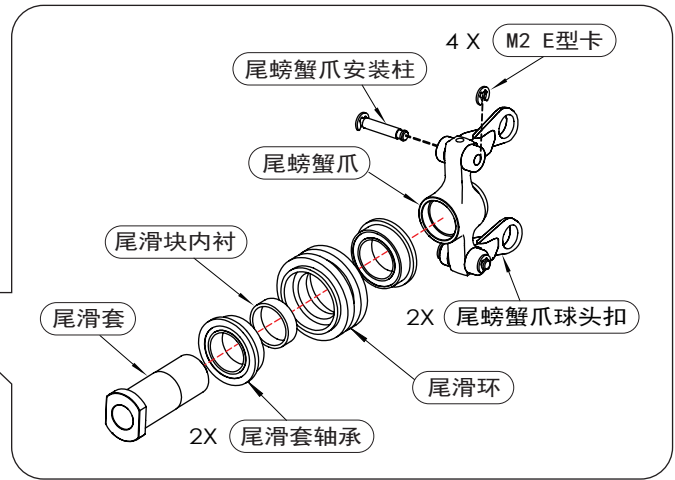
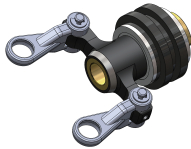
No.	Parts Description	零件名称	Qty
1	Tail Pitch Control Arm Collar	尾推轴承垫片	2
2	Tail Pitch Control Arm Lever	尾推摇臂	1
3	Tail Pitch Control Linkage Ball	球头2x5x2.5	1
4	Tail Pitch Control Arm Mount	尾推固定座	1
5	Button Head Socket Screw M3x8	半圆头内六角螺丝 M3x8	4
6	Socket Screw M2.5x8	杯头内六角螺丝 M2.5x8	2
7	Nylon Nut M2	M2螺帽	1
8	Tail Pitch Control Arm	尾推拨叉	1
9	Tail Pitch Control Arm Screw	尾拨叉螺丝	2
10	Flange Bearing 4x7x2.5	尾推摇臂轴承	2

4-2 尾滑块组 Tail Pitch Slider Fork assembly

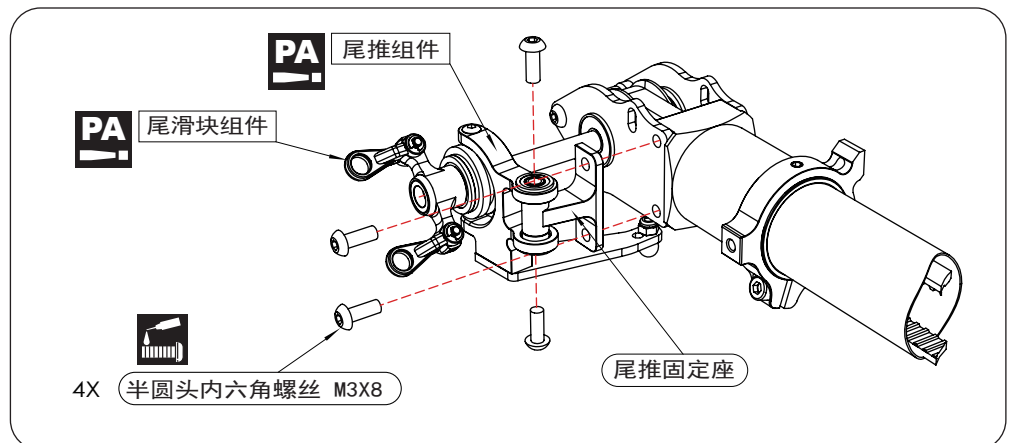
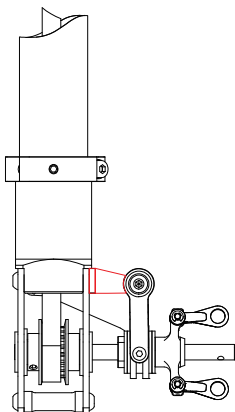
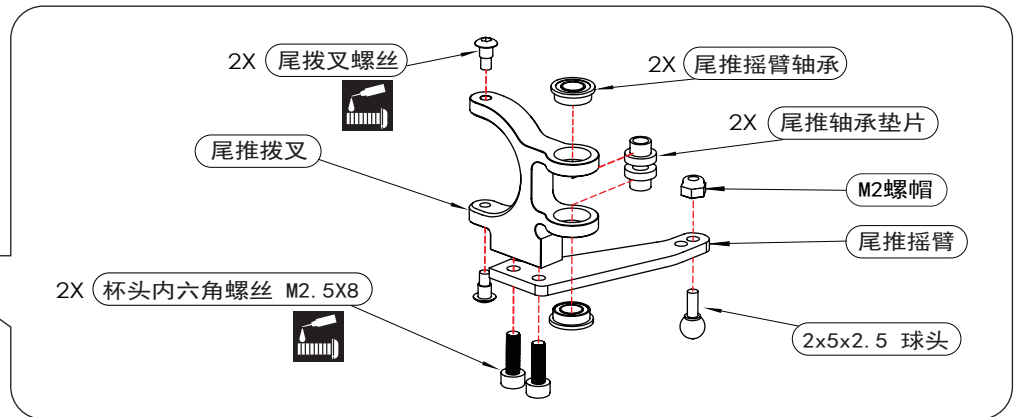
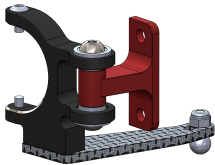


尾滑套为反牙螺纹，请注意锁紧方向。请涂少许蓝色螺丝胶，勿过度用力拧紧否则可能造成轴承运转不顺畅。

The tail sliding sleeve is anti-thread, please pay attention to the locking direction. Please apply threadlocker. Do not tighten excessively, otherwise it may cause the bearing to run smoothly.



4-3 尾推控制组 Tail Pitch Control Arm assembly



No.	Parts Description	零件名称	Qty
1	Tail Rotor Hub	尾桨中联	1
2	Tail Rotor Grip	尾桨夹	2
3	Tail Thrust Bearing	尾桨夹推力轴承	2
4	Thrust Washer 8x10x0.3	尾桨夹推力轴承垫片8x10x0.3	2
5	Ball Bearing 5x10x4	尾桨夹轴承5x10x4	4
6	Linkage Ball 2x3x2.5	2x3x2.5MM球头	2
7	Washer M3	M3垫片	2
8	Nylon Nut M3	自锁螺母 M3	2

No.	Parts Description	零件名称	Qty
9	Socket Screw M3x8	杯头内六角螺丝 M3x8	2
10	Socket Screw M3x18	杯头内六角螺丝 M3x18	2
11	Set Screw M4x4	内六角顶丝M4x4	2

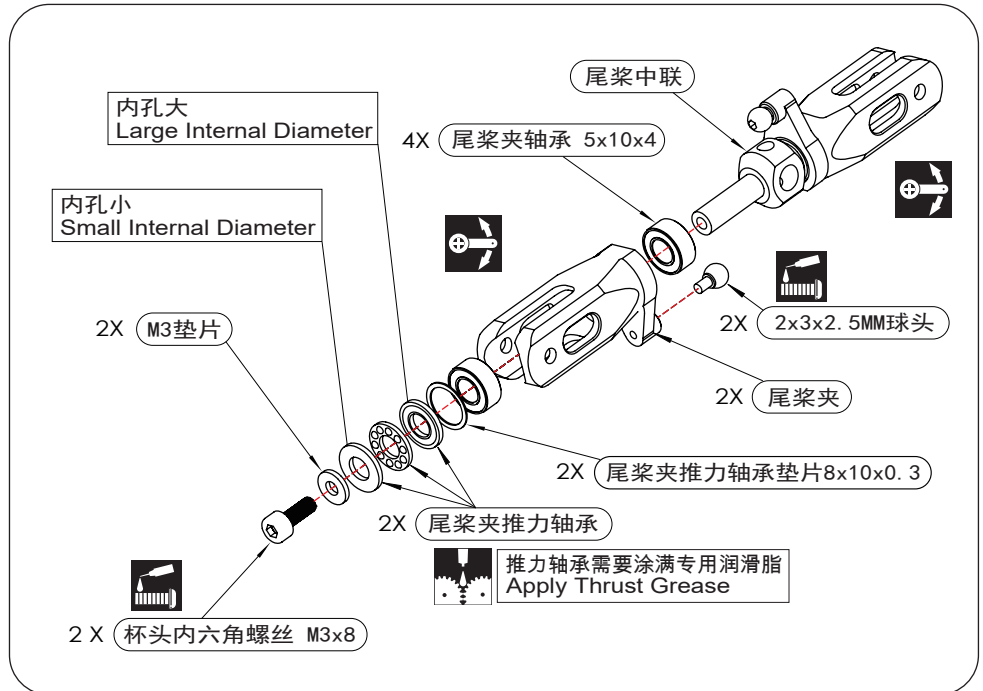
4-4 尾桨夹组装 Tail Rotor Grip assembly



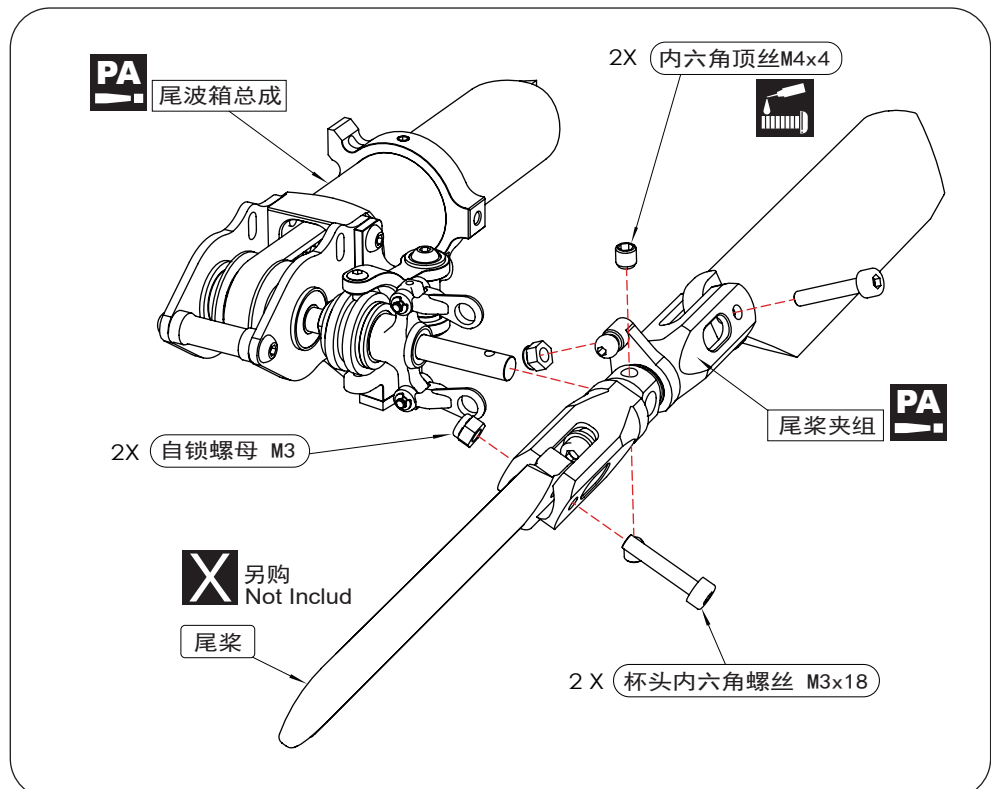
如果轴承安装时较松，请在轴承外壁涂少许绿色轴承胶。
Apply a little green bearing glue to the outer wall of the bearing. If the bearing is loose during installation.



尾桨夹固定螺丝请勿过度锁紧，建议适当增加螺丝胶用量。
Do not over tighten the tail rotor grip screws.



M4X4顶丝请两边均匀拧紧。
Please tighten the M4X4 set screws on both sides.



Step 5-1 Landing Skid & Tail Fin assembly
5-1B 脚架、垂直尾翼组装



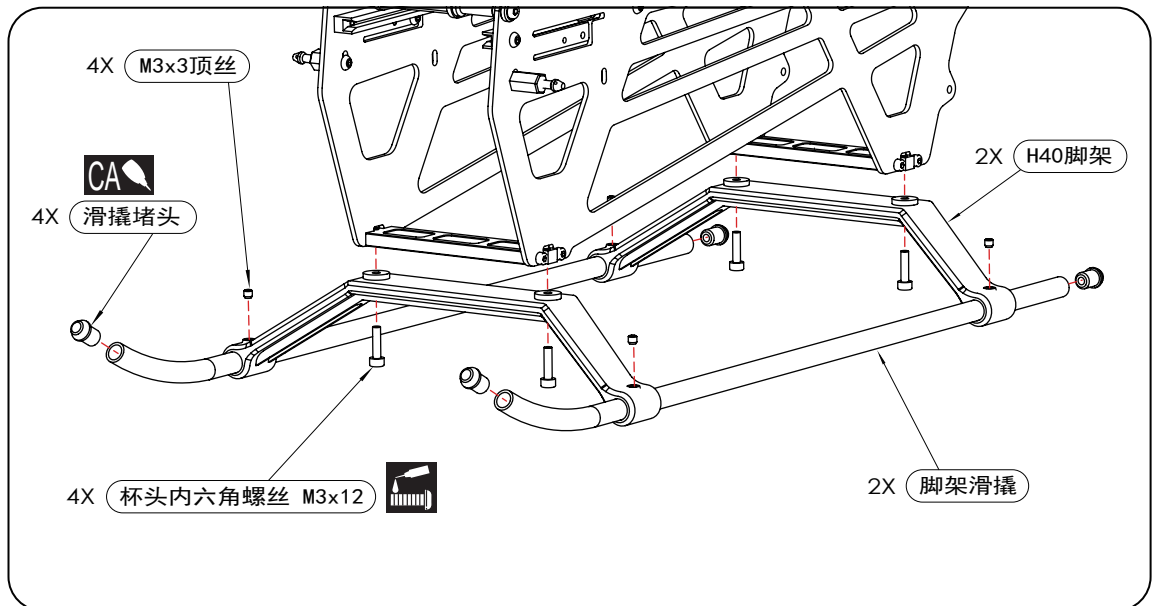
No.	Parts Description	零件名称	Qty
1	Landing Skid	脚架H40	2
2	Skid Pipe	脚架滑撬	2
3	Skid pipe end cap	滑撬堵头	4
4	Set Screw M3x3	顶丝M3x3	4
5	Socket Screw M3x12	杯头内六角螺丝M3x12	4
6	Button Head Socket Screw M3x6	半圆头内六角螺丝M3x6	4

No.	Parts Description	零件名称	Qty
1	Battery Tray	电池安装板	1
2	Horizontal Fin	水平尾翼	1
3	Vertical Fin	垂直尾翼	1

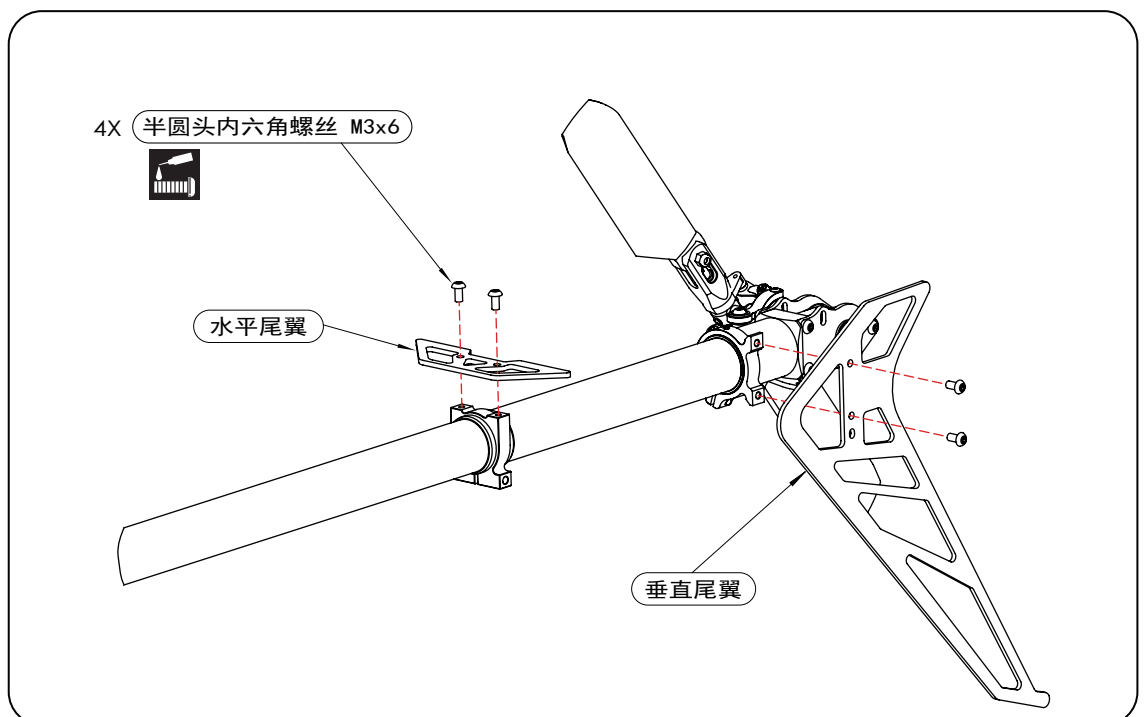
5-1 脚架组装 Landing Skid assembly



滑撬堵头请用CA胶固定。
Skid pipe end cap use CA glue.



5-1B 尾翼组装 Tail Fin assembly



No.	Parts Description	零件名称	Qty
1	Carbon Tail Boom Support	碳纤维尾撑杆L590	2
2	Tail Boom Support End	尾撑头	4
3	Socket Screw M3x10	杯头内六角螺丝 M3x10	2
4	Socket Screw M3x35	杯头内六角螺丝 M3x35	1
5	Socket Screw M2x11	杯头内六角螺丝 M2x11	4
6	Nylon Nut M3	M3自锁螺母	3
7	Nylon Nut M2	M2自锁螺母	4

5-2 尾撑组 Tail Boom Support assembly



尾撑头与尾撑杆需要用AB胶粘合。

Please use Epoxy bonding the carbon tail boom support and end tail boom support end part.

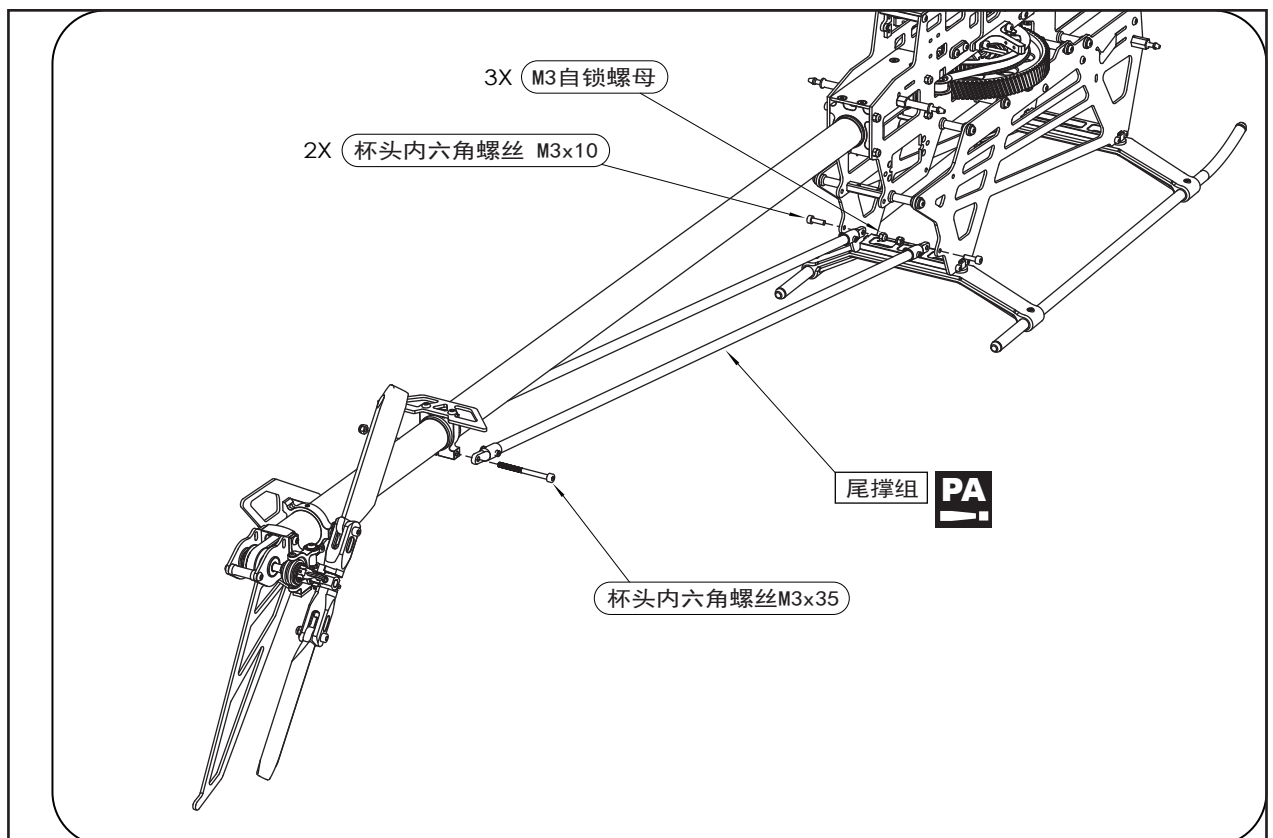
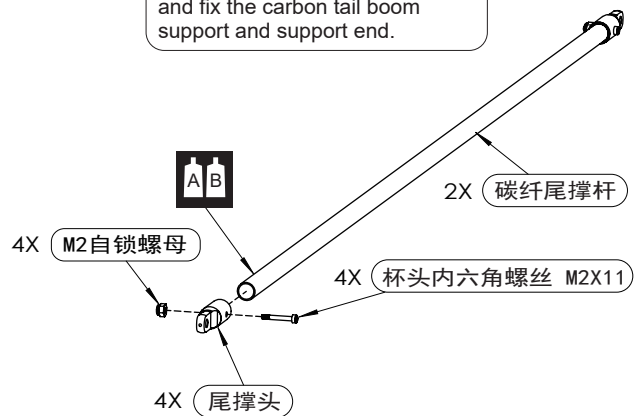


碳纤维尾撑杆在5-5零件包内。

Tail Boom support in the Bag 5-5.

x2

请使用2mm钻头在碳纤维尾撑杆与尾撑头固定位置钻出2mm螺丝固定孔。
Please use a 2mm drill to drill and fix the carbon tail boom support and support end.



Step 5-3 Tail Pitch Control Linkage assembly
尾舵拉杆组组裝

No.	Parts Description	零件名称	Qty
1	Tail Pitch Linkage Connector	尾拉杆接头	2
2	Tail Pitch Carbon Linkage Rod	尾拉杆L715	1
3	Rod Guide	尾拉杆导向环	2
4	Rod Linkage Screw M2.3x20	丝杆M2. 3x20	2
5	Ball Link	球头扣	2
6	Button Hexagon Tapping Screw M2.6x10	半圆头内六角自攻螺丝M2. 6x10	2

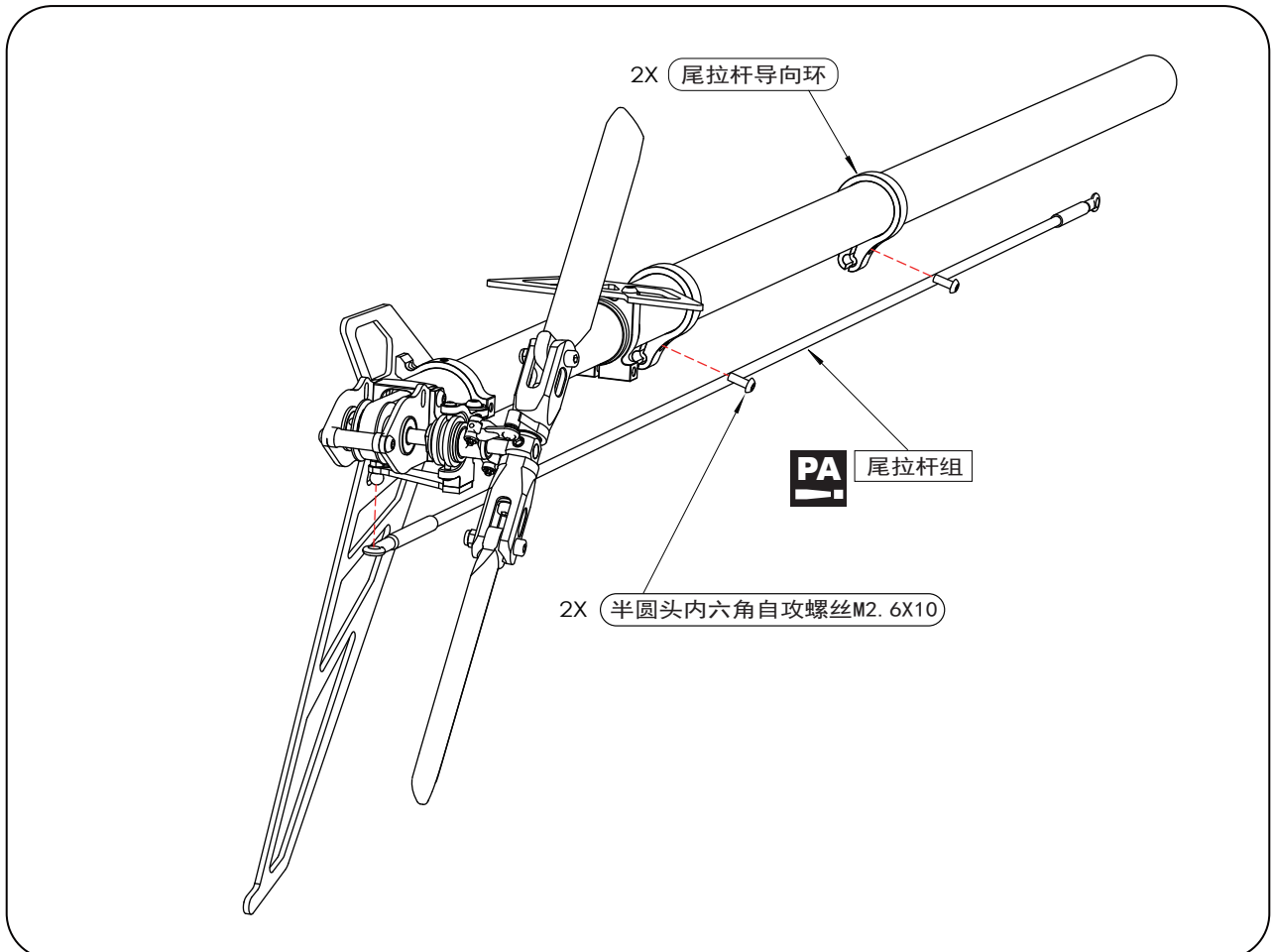
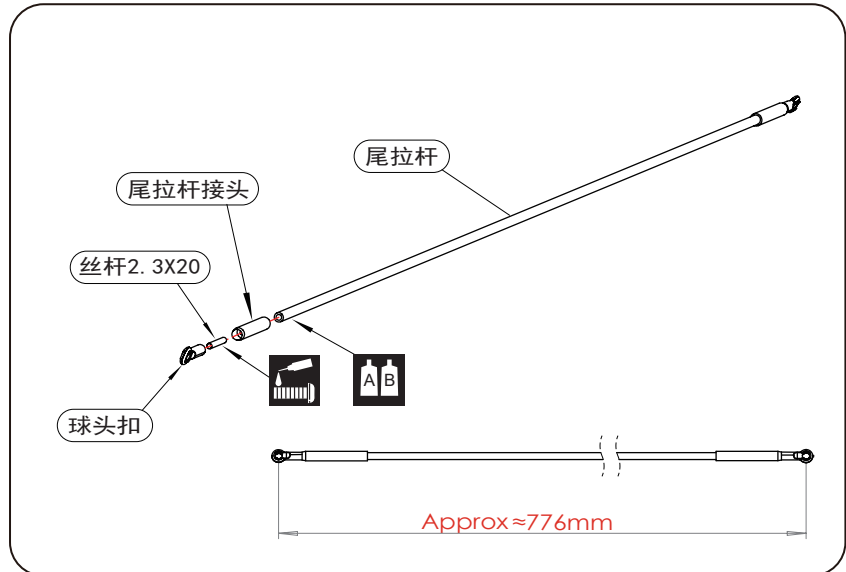
5-3 尾舵拉杆组 Tail Pitch Control Linkage assembly



尾拉杆在5-5零件包内。
Tail Pitch Carbon Linkage Rod in the Bag 5-5

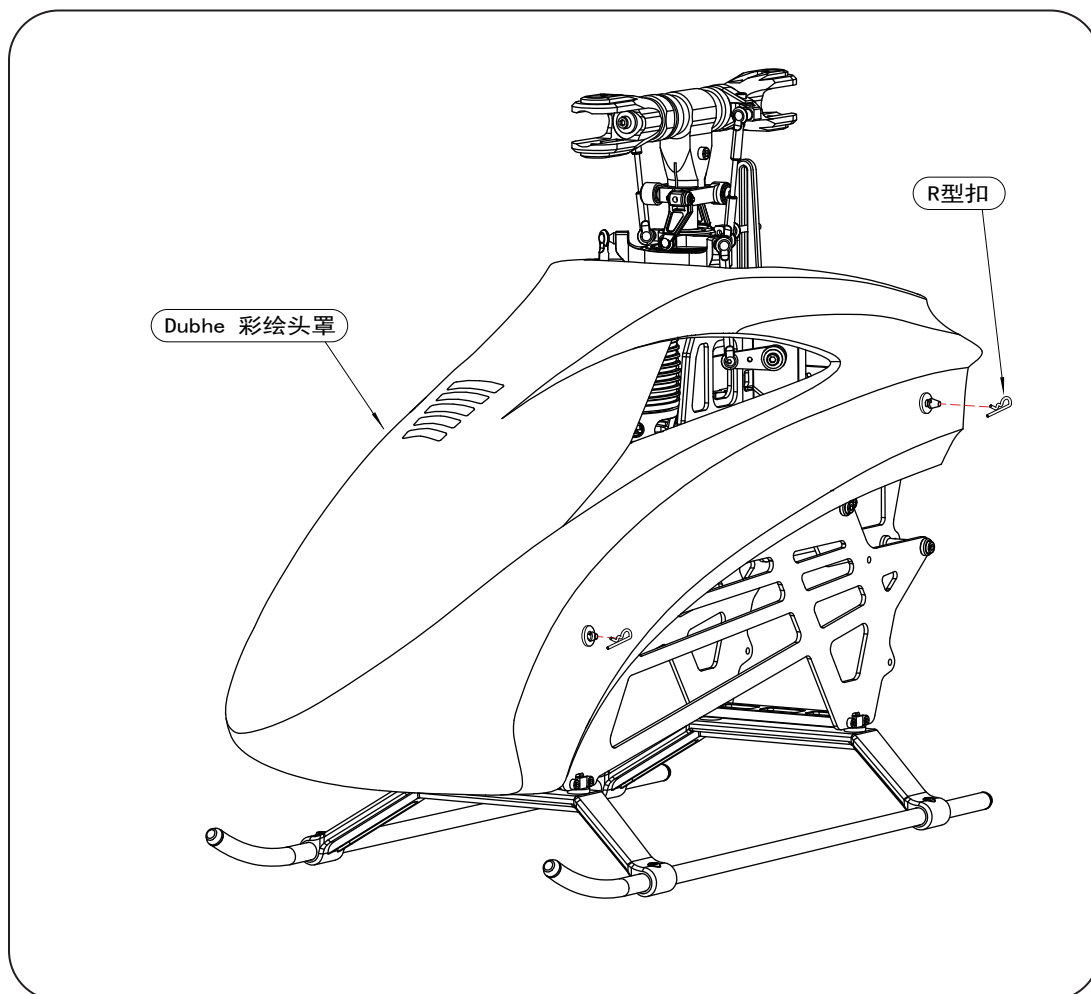
尾拉杆接头与碳纤拉杆之间需要用AB胶粘合。
请先用砂纸打磨碳纤管粘接位置，增大粘接强度。

The adhesive between the tail pitch linkage connector and the carbon linkage rod needs to be bonded with epoxy. Please use sandpaper to polish the bonding position of carbon linkage rod to increase the bonding strength.



No.	Parts Description	零件名称	Qty
1	Painted Canopy	彩绘头罩	1
2	Main Blade Holder	桨托	1
3	Hook And Loop Tape	电池魔术贴	2
4	Hook & Loop Strap L	设备绑带L	1
5	Hook & Loop Fastening Tape L320	电池绑带 L320	4
6	R -Clasp	R型扣	4

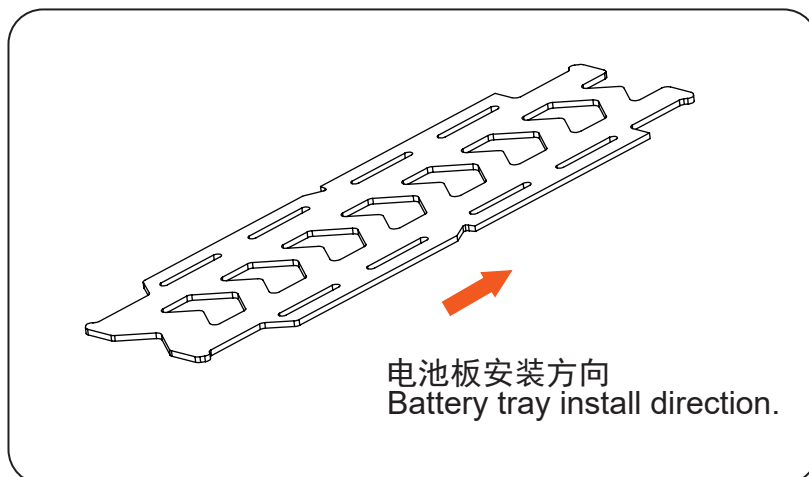
5-6 头罩安装 Canopy Installation



请注意电池板安装方向
Please pay attention to the installation
direction of the battery tray.



碳纤维电池板在5-1B零件包内。
Battery Tray in the Bag 5-1B.



! WARNING! / 警告!

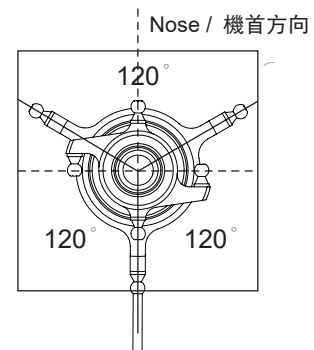
For safety, please ensure the motor has been deactivated and will not drive the main rotor head before performing following setting processes. You may just unplug 2 of the wires between the motor and the ESC or removing the motor pinion away from the main gear to avoid the rotor head rotating.

安全起见, 执行下列设定程序时, 请确认电机不会启动带动旋翼头。您可以拔除电机与电调间的任意两条连接线, 或将电机齿轮与主齿盘脱离。

Swashplate Type Setting / 倾斜盘模式设定

Follow the indications from your flybarless system manufacturer and configure the swashplate type in the transmitter accordingly.

本机倾斜盘为120度倾斜盘设计, 混控模式请参照您的遥控器及陀螺仪说明书进行设定。



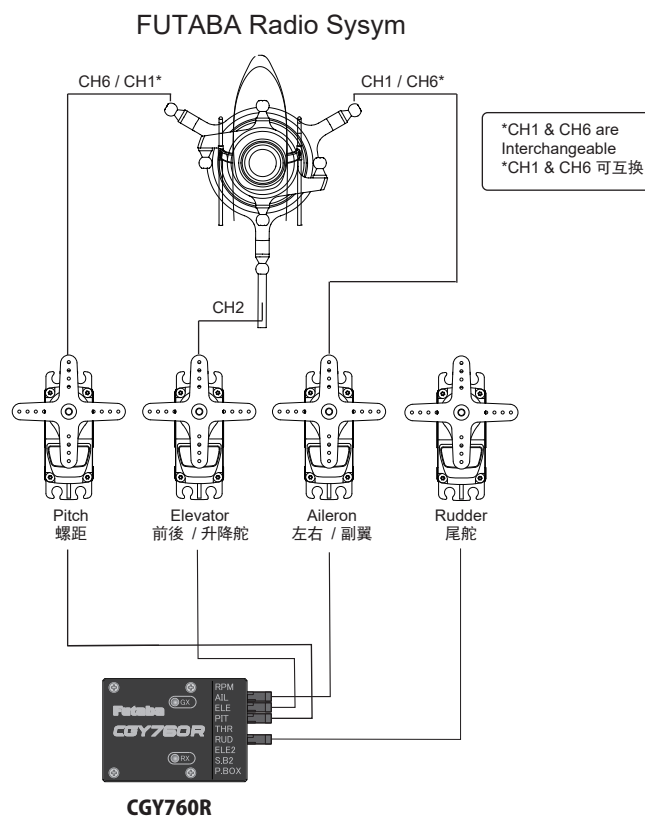
Electric Device Connection / 遥控器设备连接说明

The DUBHE is a RC helicopter designed for flybar less system. For the connection method of the servos, please refer to the instruction manual of the 3-Axis gyro system you are actually using.

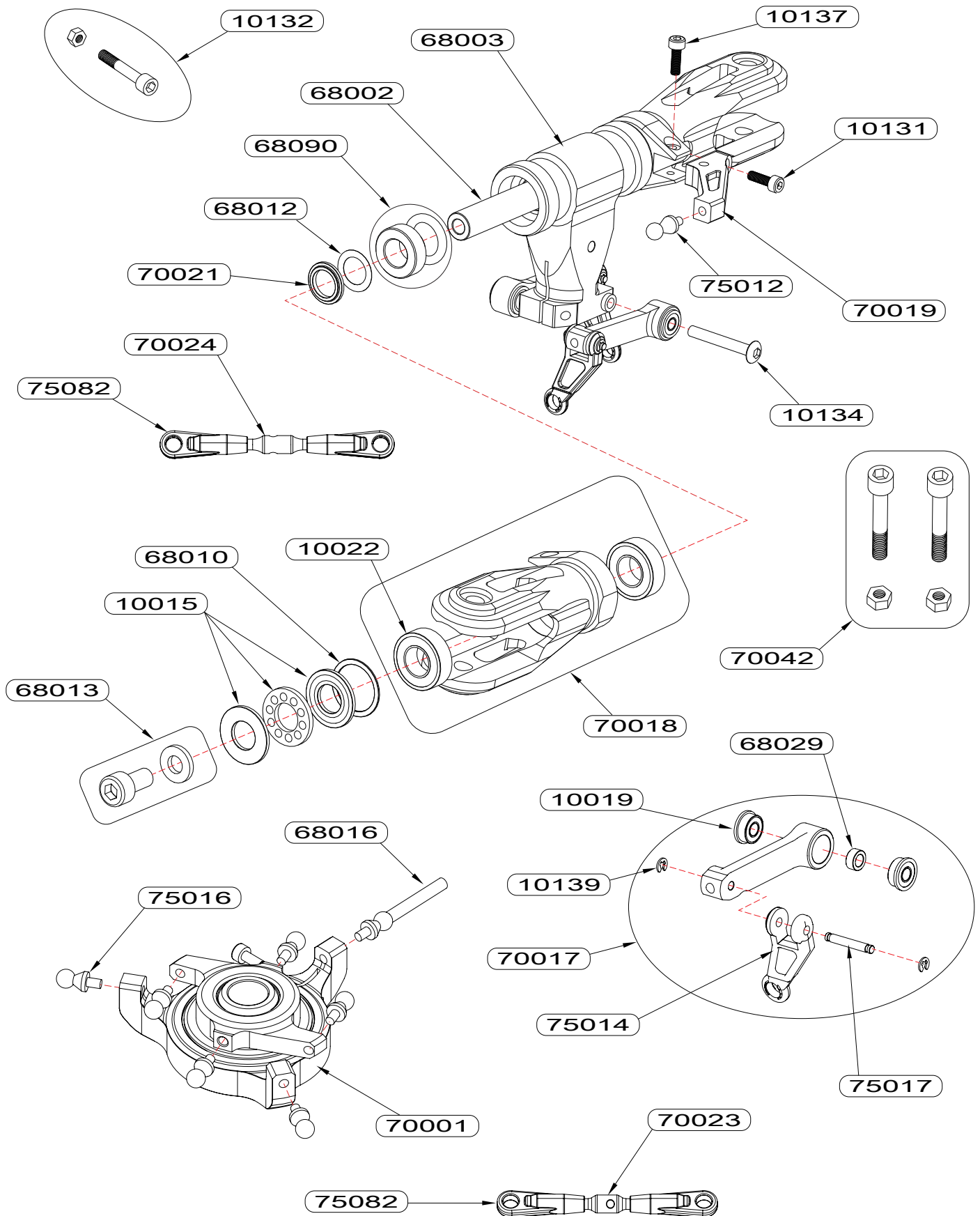
The following figure is an example of installation and connection, which is the connection method of FUTABA CGY760.

天枢星为无副翼操控设计的直升机, 关于舵机的连接方式, 请参照您实际所使用的无副翼三轴陀螺仪的说明书。

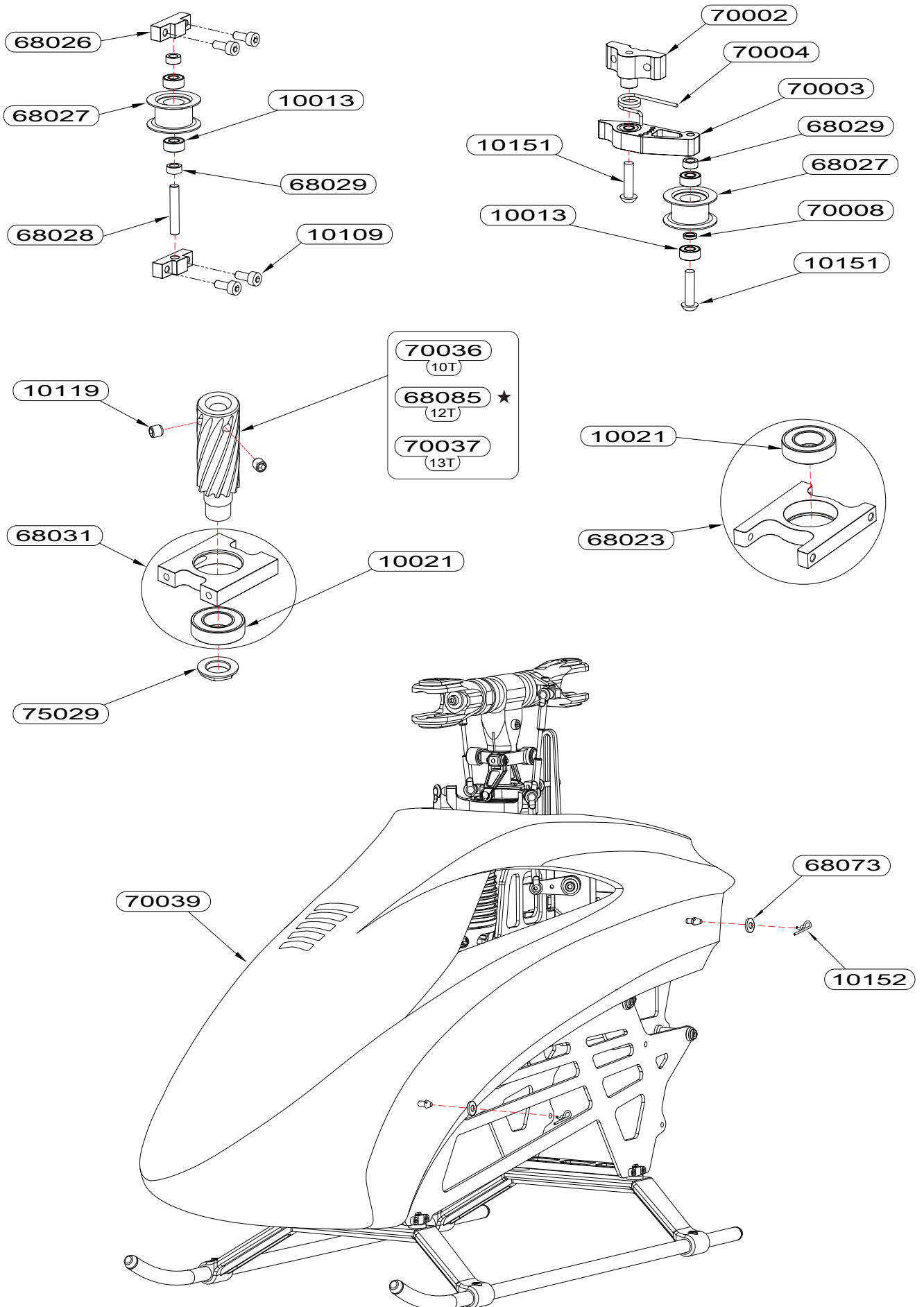
下列图示为安装连接范例, 为FUTABA CGY760连接方式。



Rotor Head / 旋翼头组

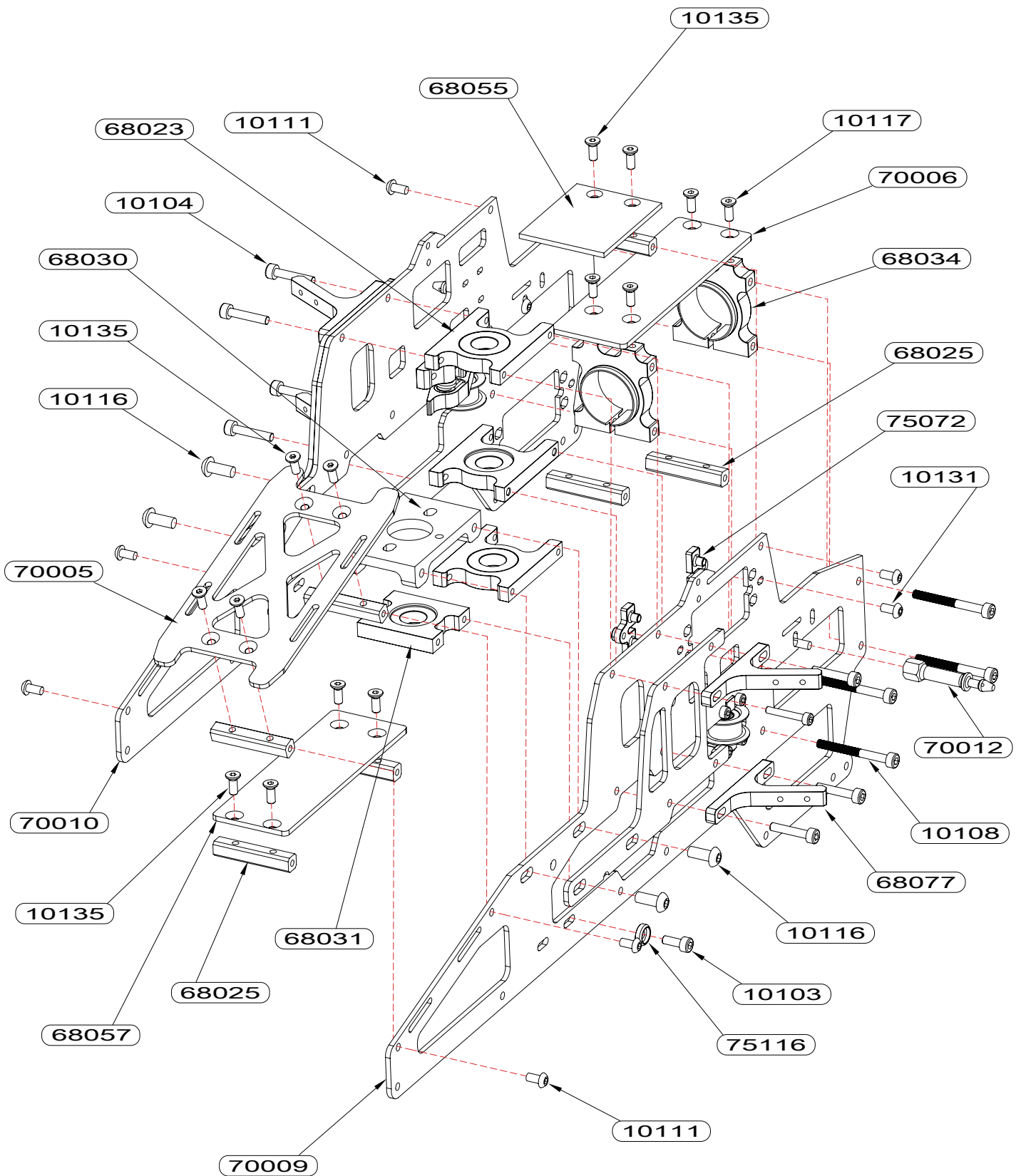


编号 NO	名称	Description	数量 Quantity
68002	横轴	SPINDLE SHAF	x1
68003	旋翼头中联	ROTOR HEAD HUB	x1
68010	桨夹推力轴承垫片	THRUST COLLAR 12x16x0.5	x2
68012	桨夹间隙调整垫片	ROTOR GRIP SHIM	x4
68013	横轴螺丝	SOCKET HEAD BOLT M5x10(Low PROFILE)	x2
68016	倾斜盘导轨球头	SWASHPLATE POST	x2
68029	皮带导向轮轴套	BELT GUIDE PULLEY COLLAR 3x5x2.3	x2
68090	700 旋翼头减震套	700 HEAD DAMPER	x2
70001	天枢倾斜盘 (φ10)	DUBHE SWASH PLATE ASSEMBLY	x1
70017	天枢相位摇臂	DUBHE WASHOUT ARM	x1
70018	天枢主旋翼夹	DUBHE MAIN BLADE HOLDER ASSEMBLY	x1
70021	天枢旋翼头台阶垫片	DUBHE ROTOR GRIP COLLAR	x2
70023	正反牙拉杆 L34	LINKAGE ROD (L34)	x3
70024	正反牙拉杆 L38	LINKAGE ROD (L38)	x2
70042	天枢主桨固定螺丝	HG MAIN BLADE BOLT SET M5	x2
75012	不锈钢球头(3x3x7.3)	CONTROL BALL (3x3x7.3)	x2
75014	相位牛角摇臂	WASHOUT LINK	x2
75016	不锈钢球头 (3x3x5.5)	CONTROL BALL (3x3x5.5)	x10
75017	相位臂轴销	WASHOUT LINK PIN SETS	x2
75082	加强球头扣	ENHANCED UNIVERSAL LINK	x4
10015	680桨夹推力轴承	THRUST BEARING F8	x2
10019	680相位摇臂轴承	BEARING SHIELD F3x7x3	x2
10022	700桨夹轴承	DUBHE MAIN SHAFT BEARING	x2
10131	M2.5x6半圆头内六角螺丝	BUTTON CAP BOLT M2.5x6	x10
10132	M3x20杯头内六角螺丝 (半牙)	SOCKET HEAD BOLT M3x20	x2
10134	M3x25半圆头内六角螺丝	BUTTON CAP BOLT M3x25	x4
10137	M2.5x10杯头内六角螺丝	SOCKET HEAD BOLT M2.5x10	x10
10139	M2 E型卡	M2 E-CLIP	x10



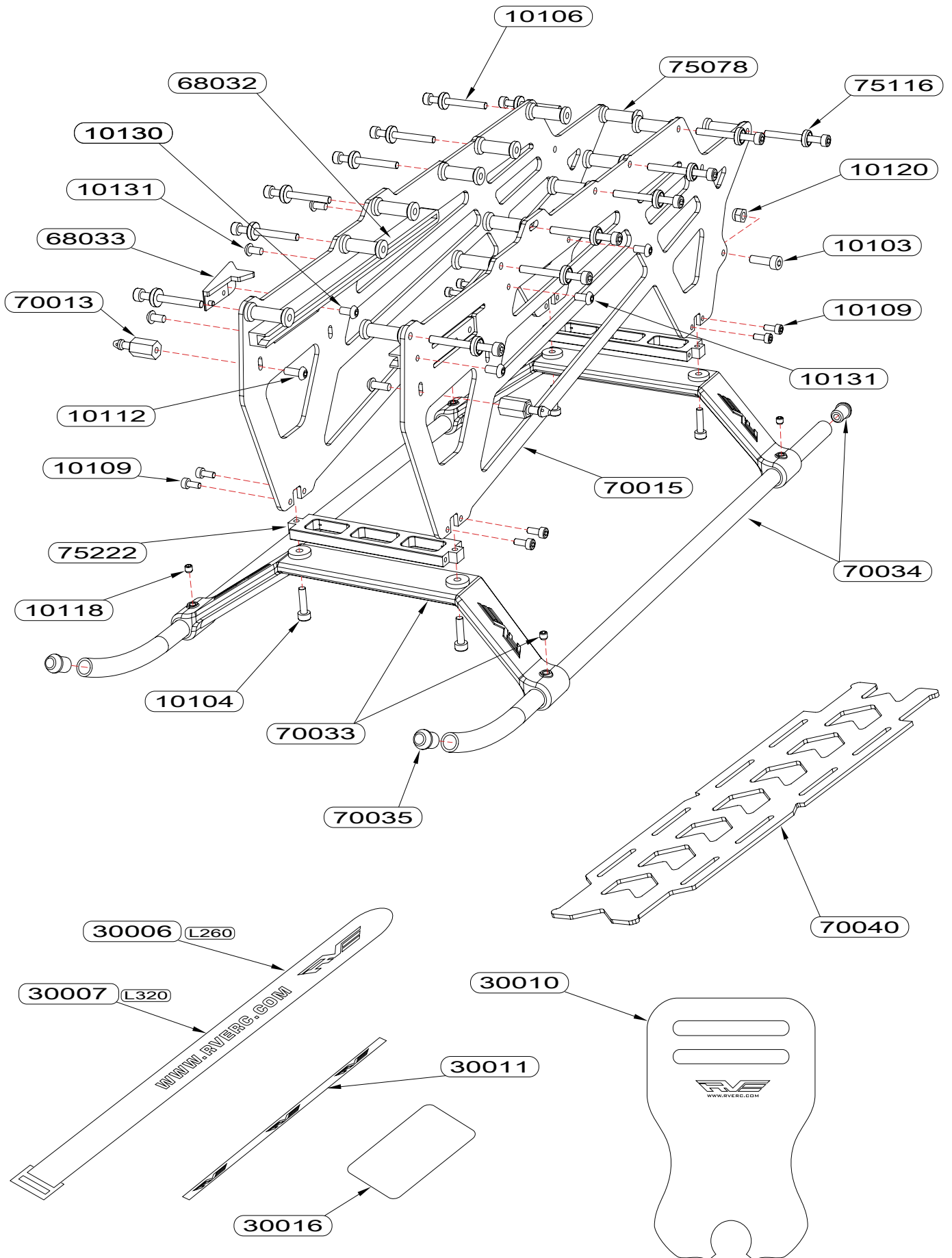
编号 NO	名称	Description	数量 Quantity
68023	主轴轴承座	MAIN SHAFT BEARING BLOCK	x1
68026	皮带导向轮安装座	BELT PULLEY MOUNT	x2
68027	皮带导向轮	BELT GUIDE PULLEY	x1
68028	皮带导向轮轴销	STAINLESS STEEL PIN 3x16	x2
68029	皮带导向轮轴套	BELT GUIDE PULLEY COLLAR 3x5x2.3	x2
68031	电机齿轴承座	PINION GEAR BEARING BLOCK	x1
68073	头罩固定胶圈	CANOPY NUT	x4
70002	皮带张紧器安装座	BELT TENSIONER MOUNT	x1
70003	皮带张紧器	BELT TENSIONER	x1
70004	张紧器扭簧	TENSIONER TORSION SPRIG	x1
70008	铜垫片3x4.2x1	WASHER 3x4.2x1	x2
70036	电机齿 (10T)	HELICAL PINION GEAR T10(10°)	x1
68085	电机齿 (12T)	HELICAL PINION GEAR T12(10°)	x1
70037	电机齿 (13T)	HELICAL PINION GEAR T13(10°)	x1
70039	天枢彩绘头罩	DUBHE PAINTED CANOPY	x1
75029	电机齿螺母	PINION NUT M9	x1
10013	轴承 3x7x3	BEARING SHIELD 3x7x3	x2
10021	700主轴轴承	DUBHE MAIN SHAFT BEARING	x2
10109	M2.5x6杯头内六角螺丝	SOCKET HEAD BOLT M2.5x6	x10
10119	M4x4顶丝	SET BOLT M4x4	x10
10151	M3x14半圆头内六角螺丝	BUTTON CAP BOLT M3x14	x10
10152	R型扣	R-CLASP	x10

Upper Frame / 上侧板组



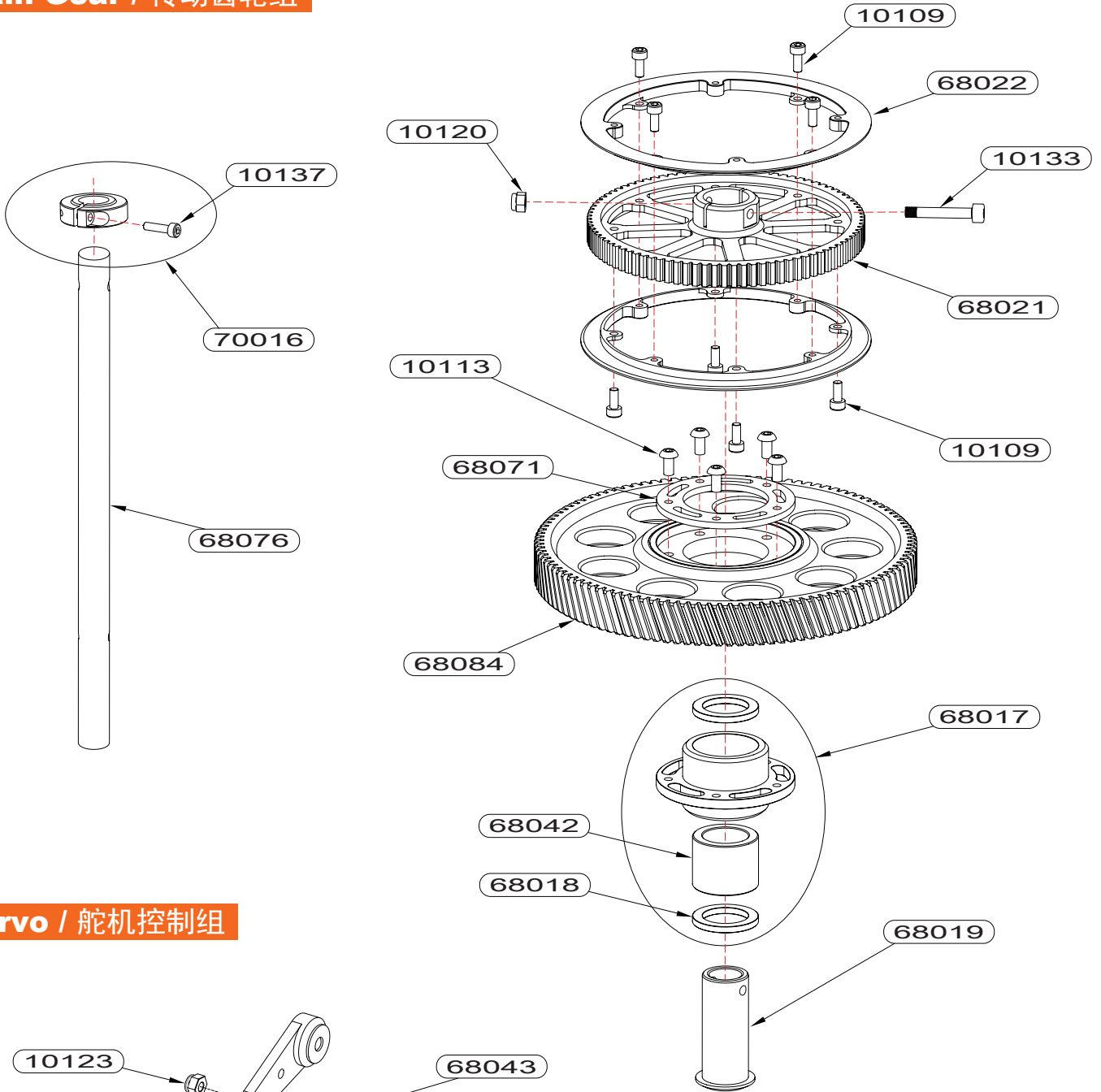
编号 NO	名称	DESCRIPTION	数量 Quantity
68023	主轴轴承座	MAIN SHAFT BEARING BLOCK	x1
68025	内侧板支撑柱	FRAME SPACER L32	x2
68030	电机安装座	MOTOR MOUNTING BLOCK	x1
68031	电机齿轴轴承座	PINION GEAR BEARING BLOCK	x1
68034	尾管安装管夹	TAIL BOOM CLIP MOUNT	x1
68055	接收机安装板	RECEIVER MOUNT PLATER	x1
68057	内侧板前支撑板	FRAME LNSIDE SUPPORT PLATE	x1
68077	标舵舵机安装座	STANDARD SERVO MOUNT	x1
70005	天枢电调安装板	DUBHE ESC MOUNTING PLATE	x1
70006	天枢陀螺仪安装板	DUBHE GYRO MOUNT PLATE	x1
70009	天枢上侧板 (左)	DUBHE UPPER FRAME (L)	x1
70010	天枢上侧板 (右)	DUBHE UPPER FRAME (R)	x1
70012	天枢头罩固定柱 (L26)	DUBHE CANOPY RETAINING POST (L26)	x2
75072	舵机安装片组	SERVO MOUNT PLATE SET	x12
75116	M3垫片 (酒红色)	CAP BOLT HOLDER M3(RED)	x10
10103	M3x10杯头内六角螺丝	SOCKET HEAD BOLT M3x10	x10
10104	M3x12杯头内六角螺丝	SOCKET HEAD BOLT M3x12	x10
10108	M3x40杯头内六角螺丝	SOCKET HEAD BOLT M3x40	x4
10111	M3x6半圆头内六角螺丝	BUTTON CAP BOLT M3x6	x10
10116	M4x10半圆头内六角螺丝	BUTTON CAP BOLT M4x10	x10
10117	M3x6沉头内六角螺丝	FLAT CAP BOLT M3x6	x10
10131	M2.5x6半圆头内六角螺丝	BUTTON CAP BOLT M2.5x6	x10
10135	M3x8沉头内六角螺丝	FLAT CAP BOLT M3x8	x10

Lower Frame / 外侧板组

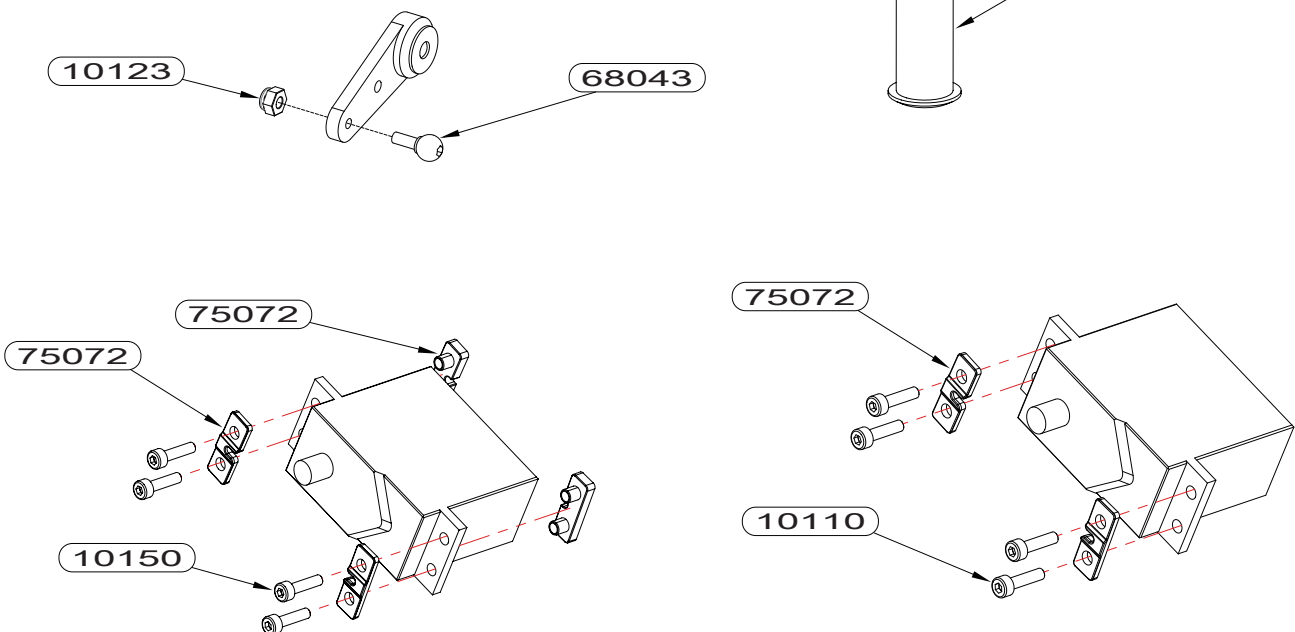


编号 NO	名称	DESCRIPTION	数量 Quantity
68032	电池滑轨	BATTERY TRAY RAIL	x2
68033	电池板卡扣	BATTERY TRAY CLIP	x1
70013	天枢头罩固定柱 (L15)	DUBHE CANOPY RETAINING POST (L15)	x2
70015	天枢外侧板	DUBHE LOWER FRAME	x1
70033	脚架 (40MM)	LANDING SKID (H40)	x2
70034	脚架滑撬	SKID PIPE	x2
70035	滑撬堵头	SKID PIPE END CAP	x4
70040	天枢电池板	DUBHE CARBON BATTERY PALLET	x1
75078	外侧板支撑柱	CROSS MEMBER L20	x2
75116	M3垫片 (酒红色)	CAP BOLT HOLDER M3(RED)	x10
75222	EVO 脚架安装座	MOUNTING BLOCK (EVO)	x1
30006	防滑电池绑带L260	HOOK AND LOOP STRAP L260	x2
30007	防滑电池绑带L320	HOOK AND LOOP STRAP L320	x2
30010	桨托	MAIN BLADE HOLDER	x1
30011	RVE 毛钩一体绑带	VELCRO STRAP (10x220MM)	x4
30016	电池魔术粘	HOOK AND LOOP TAPE	x9
10103	M3x10杯头内六角螺丝	SOCKET HEAD BOLT M3x10	x10
10104	M3x12杯头内六角螺丝	SOCKET HEAD BOLT M3x12	x10
10106	M3x30杯头内六角螺丝	SOCKET HEAD BOLT M3x30	x4
10109	M2.5x6杯头内六角螺丝	SOCKET HEAD BOLT M2.5x6	x10
10112	M3x8半圆头内六角螺丝	BUTTON CAP BOLT M3x8	x10
10118	M3x3顶丝	SET BOLT M3x3	x10
10120	M3自锁螺帽	NYLON NUT M3	x10
10130	M2.5x5半圆头内六角螺丝	BUTTON CAP BOLT M2.5x5	x10
10131	M2.5x6半圆头内六角螺丝	BUTTON CAP BOLT M2.5x6	x10

Main Gear / 传动齿轮组

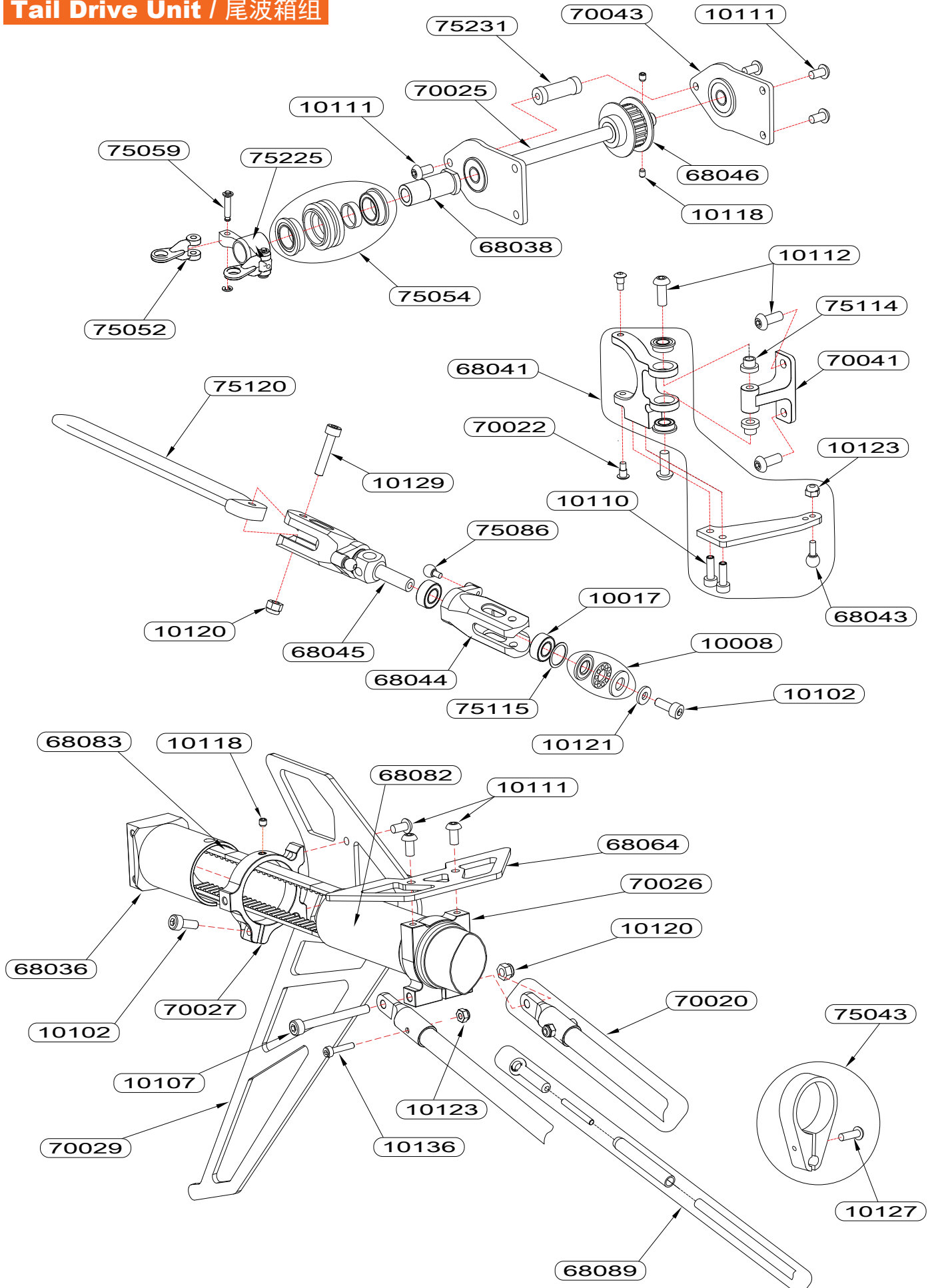


Servo / 舵机控制组



编号 NO	名称	DESCRIPTION	数量 Quantity
68017	单向轴承座	ONE WAY CLUTCH HOUSING	x1
68018	单向轴承铜垫片	ONE WAY CLUTCH WASHER	x2
68019	单向轴承内套	ONE WAY BEARING SHAFT	x1
68021	尾皮带主齿轮 (88T)	TAIL DRIVE GEAR 88T	x1
68022	尾皮带主齿轮挡边	TAIL DRIVE GEAR COVER	x1
68042	单向轴承	ONE WAY BEARING	x1
68043	不锈钢球头 2x5x2.5	LINKAGE BALL 2x5x2.5	x10
68071	主齿轮安装垫片	MAIN GEAR GASKET	x1
68076	700主轴	LENGTHEN MAIN SHAFT	x1
68084	700 主齿轮 112T	700 MAIN GEAR T112 (10°)	x1
70016	天枢主轴定位环	DUBHE MAIN SHAFT STOPPER	x1
75072	舵机安装片组	SERVO MOUNT PLATE SET	x1
10109	M2.5x6杯头内六角螺丝	SOCKET HEAD BOLT M2.5x6	x10
10110	M2.5x8杯头内六角螺丝	SOCKET HEAD BOLT M2.5x8	x10
10113	M3x10半圆头内六角螺丝	BUTTON CAP BOLT M3x10	x10
10120	M3自锁螺帽	NYLON NUT M3	x10
10123	M2自锁螺帽	NYLON NUT M2	x10
10133	M3x22杯头内六角螺丝 (半牙)	SOCKET HEAD BOLT M3x22	x4
10137	M2.5x10杯头内六角螺丝	SOCKET HEAD BOLT M2.5x10	x10
10150	M2.6x8半圆头内六角自攻螺丝	INTERNAL HEXAGONAL TAPPING SCREW M2.6x8	x2

Tail Drive Unit / 尾波箱组



编号 NO.	名称	DESCRIPTION	数量 Quantity
68036	尾波箱安装座	TAIL UNIT HOUSING	x1
68038	尾滑套	TAIL PITCH CONTROL SLIDER BUSHING	x1
68041	尾推拨叉组	TAIL PITCH CONTROL ARM	x1
68043	不锈钢球头 2x 5x 2.5	LINKAGE BALL 2x5x2.5	x10
68044	尾桨夹	TAIL ROTOR GRIP	x1
68045	尾桨中联	TAIL ROTOR HUB	x1
68046	尾后传动皮带轮	TAIL DRIVE PULLEY T18J	x1
68064	碳纤水平尾翼	CARBON HORIZONTAL FIN	x1
68082	700 铝合金尾管	TAIL BOOM L815	x1
68083	700 尾传动皮带	700 TAIL DRIVE BELT	x1
68089	尾舵拉杆组	TAIL PITCH CARBON LINKAGE ROD	x1
70020	天枢碳纤尾撑组	CARBON TAIL SUPPORTER SET L590	x2
70022	尾拨叉螺丝	TAIL PC SLIDE BOLT	x2
70025	天枢尾轴	DUBHE TAIL DRIVE SHAFT	x1
70026	天枢尾撑安装管夹	DUBHE TAIL BOOM SUPPORT BRACKET	x1
70027	天枢垂尾安装座	DUBHE VERTICAL FIN BRACKET	x1
70029	天枢垂直尾翼	DUBHE CARBON VERTICAL FIN	x1
70041	天枢尾拨叉固定座	TAIL PITCH CONTROL ARM MOUNT	x1
70043	尾波箱轴承座	TAIL HOUSING PLATE	x1
70044	尾桨固定螺丝	TAIL BLADE SCREW	x2
75043	尾拉杆导向环	TAIL ROD GUIDE	x2
75052	尾蟹爪球头扣	TAIL PC LINK B	x3
75054	尾滑环	TAIL SLIDE RING	x1
75059	尾螃蟹爪轴销	TAIL PC LINK PIN	x2
75086	不锈钢球头(2x3x2.5)	CONTROL BALL (2x3x2.5)	x10
75114	尾拨叉轴承套	TAIL PC BEARING COLLAR	x2
75120	105尾旋翼	CARBON TAIL ROTOR 105MM	x1
75225	EVO 两尾桨螃蟹爪	TR2 TAIL PC PLATE (EVO)	x1
75231	EVO 尾波箱支撑柱	TAIL PLATE CROSS MEMBER L18	x1
10008	尾桨夹推力轴承	THRUST BEARING 5x10x4	x2
10017	680尾桨夹轴承	BEARING SHIELD 5x10x4	x2
10102	M3x8杯头内六角螺丝	SOCKET HEAD BOLT M3x8	x10
10107	M3x35杯头内六角螺丝	SOCKET HEAD BOLT M3x35	x4
10110	M2.5x8杯头内六角螺丝	SOCKET HEAD BOLT M2.5x8	x10
10111	M3x6半圆头内六角螺丝	BUTTON CAP BOLT M3x6	x10
10112	M3x8半圆头内六角螺丝	BUTTON CAP BOLT M3x8	x10
10118	M3x3顶丝	SET BOLT M3x3	x10
10120	M3自锁螺帽	NYLON NUT M3	x10
10121	M3垫片	SHIM M3	x10
10123	M2自锁螺帽	NYLON NUT M2	x6
10127	M2.6x10内六角自攻螺丝	INTERNAL HEXAGONAL TAPPING SCREW M2.6x10	x10
10136	M2x11杯头内六角螺丝	SOCKET HEAD BOLT M2x11	x10



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天枢星 E700 组装说明书 第一版

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DUBHE E700 Assembly Instructions Version 1

The contents are subject to change without prior notice due to product improvements and specification changes.