

# KNIGHT 3D

Top 3D Equipment



## Instruction Manual



- \* Hardened hollow main shaft.
- \* Dual pin tail rotor pitch system
- \* Thrust bearings built in tail grips.
- \* CCPM swash controls
- \* Quick to build
- \* Hardcore 3D out of box
- \* Fully Ball-Raced.
- \*  $\pm 12.5^\circ$  collective pitch range for extreme 3D
- \* Extra tough frame design.
- \* Vibration insulation engine mount.
- \* High efficiency direct belt drive system.
- \* High CG design.
- \* Push-pull control.

**Gear Ratio: 1:8.7:4.8**  
**Blade Length: 600-620mm**  
**Engine: 50 size**  
**Take-off Weight (no fuel): 3.3kg**  
**Fuel Tank Capacity: 400cc**

- \* 加硬空心主轴
- \* 两点支撑尾螺距机构
- \* 尾桨夹含压力轴承
- \* CCPM 控制系统, 反应更快
- \* 拆装维修容易
- \* 无需升级即具备全面3D飞行能力
- \* 全方位轴承润滑
- \*  $\pm 12.5$ 度大桨螺距范围
- \* 超强主架结构
- \* 独创避震引擎架
- \* 高效传动系统
- \* 高重心设计
- \* 双推拉控制系统

传动比: 1:8.7:4.8  
大桨: 600-620mm  
引擎: 50 级别  
起飞重量: 3.3kg  
油箱容量: 400cc

As we continue to improve our products. This manual may not reflect all recent product amendments. Please refer to the received product and check our website: [www.compassmodel.com](http://www.compassmodel.com)

由于产品不断更新,此说明书或有错漏,请参照实物及我公司网页:

[www.compassmodel.com](http://www.compassmodel.com).

不便之处,敬请原谅.

# Introduction 简介

Thank you for choosing the Knight 3D and welcome to Compass Model. The Knight 3D has been carefully designed to offer outstanding flight performance and includes many innovative features along with proven components to provide you with a model which is accurate, durable and agile. The 3D was developed with input from leading pilots to meet the requirements of the most demanding aerobatic flight styles, both now and in the future. The control system incorporates a closed loop push-pull system for all swash plate linkages and optimum ccpm geometry to ensure unrivalled control accuracy and rapid head response. Similarly, the frame lay out has been designed to create an extraordinarily rigid platform which is both durable and further improves control accuracy. This compact layout features light weight, raised centre of gravity and unique engine isolation mounting.

Please read the complete manual before assembly, which has been designed to enable you to get the best from your model - please take careful note of all precautions and assembly tips. Please also keep the manual as a reference for part numbers and reassembly following maintenance.

多谢选用康柏模型公司产品。KNIGHT 3D是康柏团队总结了以往产品的优劣并进一步创新的杰出作品。象康柏所有产品一样，KNIGHT3D无需升级即具有超凡3D性能。控制精准兼且灵敏，磨损小，寿命长。本机采用对称CCPM双推拉控制系统，轻强主架结构，高重心设计。独创的避震引擎架。无论在马力，强度，控制方面均为同类别产品佼佼者。请保存次说明书以备日后使用。

## The Meaning of Symbols 标志含义



Caution

Mishandling due to failure to follow these instructions may result in damage, personal injury or danger. 疏忽此项说明可能导致严重损失，严重身体伤害，造成危险。



Blue Thread lock should be applied. 此处应采用蓝色螺丝固定剂

## Warning 重要声明

**This radio controlled helicopter model is not a toy.** It is a sophisticated piece of equipment for hobby use only. Improper operation or assembly of this product can cause serious injury or death for both operator and spectators. This product is not recommended for use by children.

**Manufacturer and Sellers assume no responsibility for using and operating this product.** The customer must take full responsibility for the safe operation of this product.

遥控直升机并非玩具，而是精密复杂的休闲产品。组装、使用或操作不当都会造成严重财产损失，自己或他人身体伤害，甚至死亡。请详细阅读本说明书，切勿忽视安全。

制造商、销售商无法对使用者由于组装、维护、操作及使用不当造成的损失或伤害负任何责任。产品一经售出，本公司将不负任何操作和使用上的安全责任。

### AMA INFORMATION

We strongly encourage all prospective and current R/C aircraft pilots to join the Academy of Model Aeronautics. The AMA is a non-profit organization that provides services to model aircraft pilots. As an AMA member, you will receive a monthly magazine entitled *Model Aviation*, as well as a liability insurance plan to cover against possible accident or injury. All AMA charter aircraft clubs require individuals to hold a current AMA sporting license prior to operation of their models. For further information, you can contact the AMA at:

**Academy of Model Aeronautics**  
5151 East Memorial Drive  
Muncie, IN 47302

我们强烈建议所有遥控飞行爱好者加入Academy of Model Aeronautics(简称AMA)。AMA是一个为遥控飞行爱好者提供服务的非盈利性组织。AMA的会员会收到该会的月刊*Model Aviation*，并享有有关遥控飞行的保险。所有AMA标示的俱乐部都会要求会员拥有AMA牌照。详细资料请参照：

**Academy of Model Aeronautics**  
5151 East Memorial Drive  
Muncie, IN 47302

## Safety Notes 安全注意事项



Caution

**Operate in safe areas.**  
在安全场所飞行

Do not fly r/c helicopter model near buildings, high voltage cables, trees or other obstacles. Do not fly r/c helicopters in poor weather such as rain, snow or fog. Do not fly r/c helicopters over crowds of people, cars or other property. Flying field should be a smooth, clear and flat field.

遥控飞行时远离建筑物，高压线，树及其他障碍物。切勿在雨，雪，雾等不良天气下飞行。切勿在人群，车辆及建筑上空飞行。飞行场地一定要平整，开阔，视野清楚。



## Obtain assistance from experienced pilots

Caution

避免独自操控

Certain level of skill is required to operate R/C helicopter. The Guidance provided by experienced pilots is valuable and sometimes necessary for assembly, tuning, and flights. It is also recommended that you practice with a computer based flight simulator.

遥控直升机是相对较为复杂的休闲产品. 操作遥控直升机需要一定技术及经验. 专家在装配, 调整, 及飞行上的帮助是非常必要的. 并强烈建议在使用本产品前先在电脑模拟器上练习熟练.



## Keep a safe distance when operating

Caution

保持安全距离

During operation, the main blades and tail blades on a r/c helicopter spin at a very high rate of speed. The blades are capable of inflicting serious bodily damage or injury to yourself or others. Keep the model at a safe distance away from yourself and other people. Never take your eyes off the model whenever the blades are spinning.

遥控直升机启动以后, 主旋翼尾旋翼高速旋转, 可以给自己或他人身体造成严重伤害甚至死亡. 所以, 在操作过程中务必保持安全距离, 时刻注意模型动向及姿态.



## Do not expose to rain or moisture

Caution

远离潮湿环境

R/c helicopter models are comprised of many electrical components. Water, moisture or other contaminants can cause failure or malfunction of those components, and result in crashes or accidents.

模型直升机包含有很多电子设备. 请远离潮湿环境以免水气损坏电子设备造成危险.



## Keep Away From Heat

Caution

远离热源

R/c Helicopters are made up various forms of plastic. Extreme heat can introduce damage or deformation of those plastic parts. Do not store the model near any source of heat such as an oven or heater. Do not store in a car under severe insolation.

直升机包含有很多塑料元件. 务必远离热源, 切勿暴晒, 以免塑料性质发生改变导致危险.



## Frequency Check

Caution

避免同频干扰

Make sure there is no same frequency been used in the operation area. Frequency interference can cause crash and even serious personal injury.

同频无线电干扰会导致飞行事故及人员伤害. 务必在飞行前确认飞行范围没有同频干扰.



## Proper Maintenance

Caution

正确维护

Only use genuine parts to replace or repair this model. Always check if there is any damage or looseness of parts on the model before and after any flights. Replace worn or damaged parts before the flight.

飞行前后务必检查有无零件损坏或过度磨损. 及时更换有问题的零件. 务必使用康柏模型提供的配件.



## Operation under good condition

Caution

操作状态良好

Flying a r/c helicopter requires good mental attention. Do not fly when you are tired, sick or under the influence of alcohol. Operation under bad mental or physical condition may cause danger to you or others. 只在良好状态下操作, 切勿在疲劳, 酒醉, 生病或精神不集中的情况下操作.



## Keep this product away from children

Caution

远离儿童

R/C helicopters are not toys. It must not be used without adult supervision.

本品并非玩具. 储藏, 维修, 使用务必请远离儿童, 免招危险.

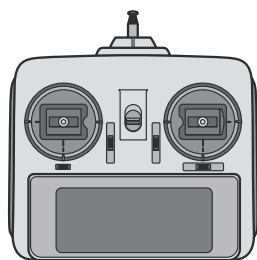
# Necessary Items Not Included In this Package 必备物品

以下必备物品用户需自行购买,本产品没有提供

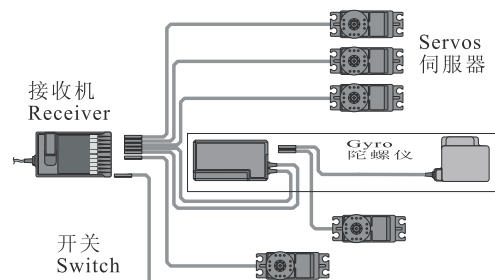
In order to operate this model, you need to purchase the following items which are not included in the package.

油动直升机专用遥控设备及干电池  
Radio for engine-powered R/C helis,  
and dry batteries.

- 请使用油动直升机模型专用遥控器, 伺服器5个, 陀螺仪一个.
- 使用方法请参照遥控器说明书.
- This model requires a EMS System radio for Engine-powered R/C heli with 5 servos and 1 gyro.
- For more information of the radio, please refer to the radio sets manual.

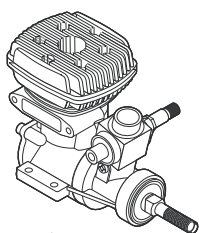


Transmitter  
发射机

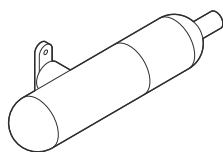


接收机  
Receiver  
开关  
Switch  
接收机电池  
Battery

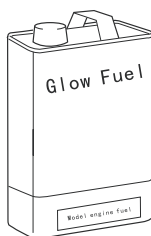
**Caution** 使用非油动直升机模型专用遥控设备可能造成重大事故。  
USE ONLY RADIO FOR ENGINE-POWERED HELI MODEL (ANY OTHER RADIO IS PROHIBITED!)



50级发动机  
Class 50 engine



50级排气管  
Muffler for 50 class

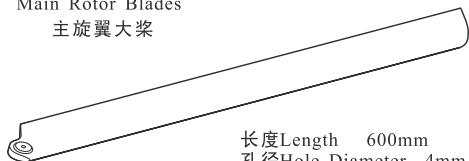


Glow Fuel  
遥控模型专用燃料

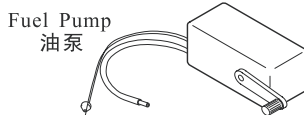
1. Use only GLOW fuel for model engines,  
\*Do not use gasoline or kerosine.  
\*GLOW fuel is highly flammable and explosive, always use with care!
2. Always keep the fuel and empty fuel cans away from children.
3. Never refuel before the engine has cooled down.
4. Be careful not to drink or allow the fuel in contact with eyes.

1. 只可以使用遥控模型专用燃料。  
\*不可以使用煤油或汽油。  
\*此燃料是高挥发性, 易燃, 易爆物品。使用时务必注意安全。
2. 注意保持燃料及其容器远离儿童。
3. 一定要在发动机冷却后才可加油。
4. 该燃料不可饮用, 注意不要使其接触眼睛。

Main Rotor Blades  
主旋翼大桨



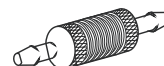
长度Length 600mm  
孔径Hole Diameter 4mm  
厚度Thickness 12mm



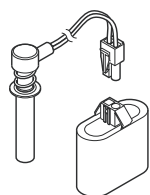
Fuel Pump  
油泵



Starter Shaft  
启动头



Fuel Filter  
滤油器



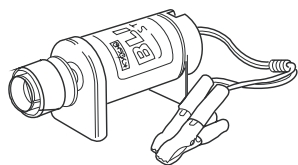
Plug Heater  
加热器



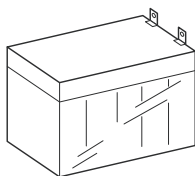
Loctite  
Loctite 胶水



Grease  
润滑油



Engine Starter  
起动机

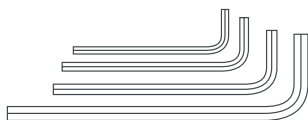


Battery for  
Engine Starter  
蓄电池

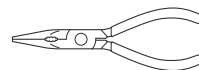


Instant Glue  
厌氧胶水

六角扳手 (1.5mm, 2mm, 2.5mm, 3mm)  
Hexagon wrench (1.5mm, 2mm, 2.5mm, 3mm)



Cutter Knife  
裁纸刀



Needle Nose Pliers  
尖嘴钳



Screw Driver  
螺丝刀

## Standard Equipment 标准装备

This model is packed according to assembling steps. Do not open all the bags at one time. Open only one bag for each step of assembly when building. 本产品是按照装配步骤依次包装。不要一次打开所有包装袋。每一步骤请只打开相关的包装袋。

			
Canopy	Frame Set	Rotor Head	Long items
			
Step 1	Step 2	Step 3	Step 4
			
Step 5	Step 6	Step 9	Decal

## ORDER OF SWITCH ON/OFF 启动/关闭顺序

**When switching the R/C system ON or OFF, always proceed in the following order:**

**When switching ON:**

Place the throttle control stick into motor stop position.

Turn on the transmitter.

Turn on the receiver.

Start the engine.

Operate your model.

**When switching OFF:**

Turn off the motor (place the throttle control stick into motor stop position).

Shut down the engine

Wait until the rotor head has stopped spinning.

Turn off receiver.

Turn off transmitter.

**在启动或关闭遥控系统时务必按照以下顺序进行:**

**当启动遥控系统时:**

油门控制杆方在最低位置.

打开遥控器.

打开接受机.

启动引擎.

开始飞行.

**关闭遥控系统时:**

油门控制杆方在最低位置.

关闭引擎.

等到旋翼停止转动.

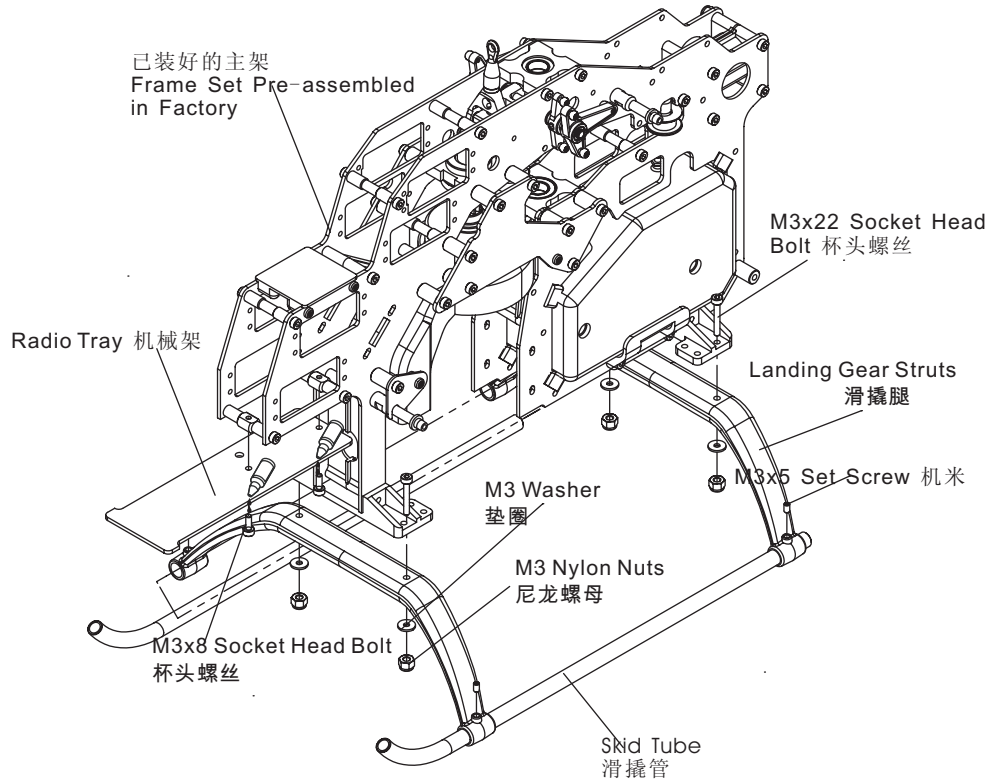
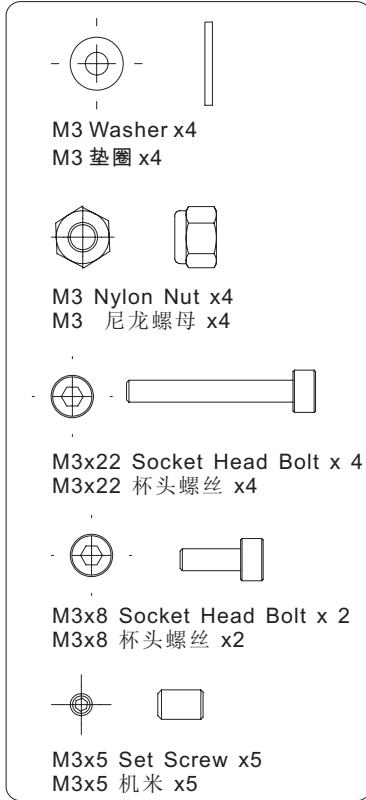
关闭接受机.

关闭发射机.

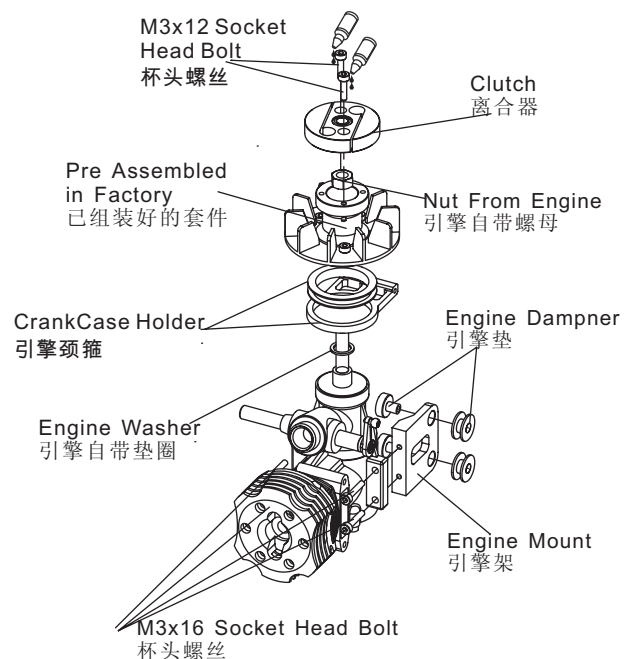
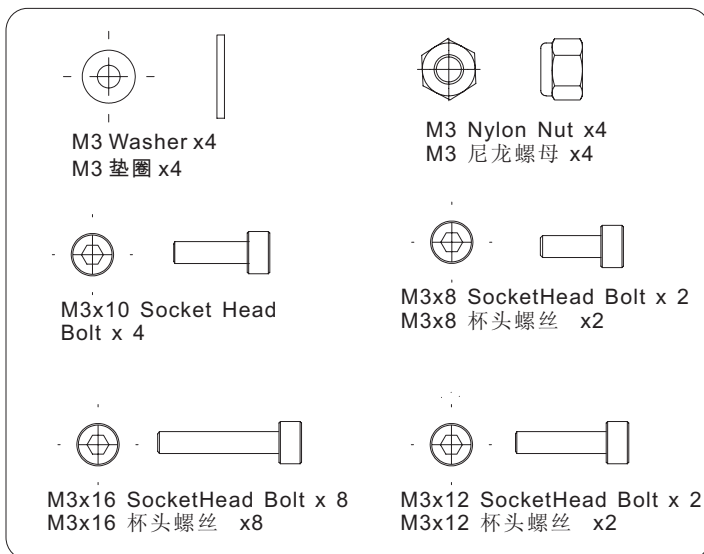
# Assembling 组装

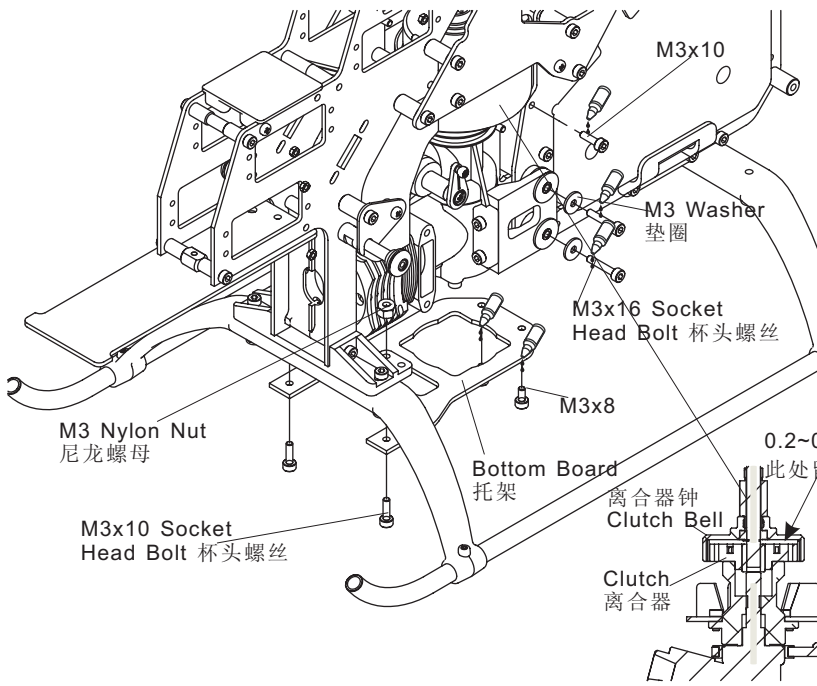
- \* Always apply blue Loctite when fixing Bolts on Metal parts. 所有金属元件上的螺丝需用蓝色厌氧胶加固.
- \* Always apply green Loctite where Bearings fit in Metal parts. 所有轴承位需用绿色厌氧胶加固.
- \* Do not over tight Self-Tapping Bolts into plastic, otherwise plastic part could be damaged. 切勿过分收紧塑料元件上的自攻螺丝以免破坏塑料元件.

## Step 1 Landing Gear Installation 脚架的装配

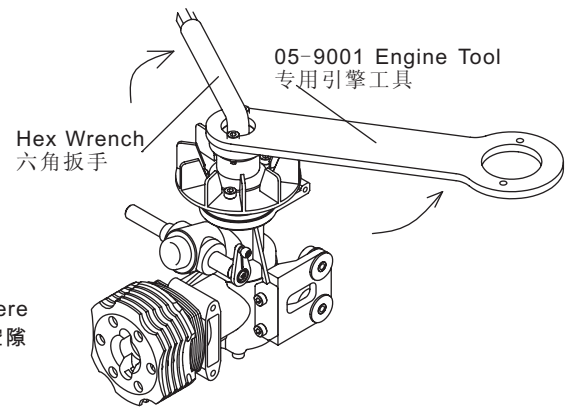


## Step 2 Engine & Pinion Installation 引擎的装配







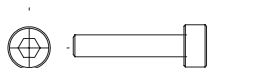
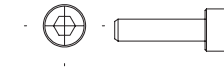
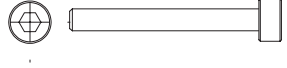


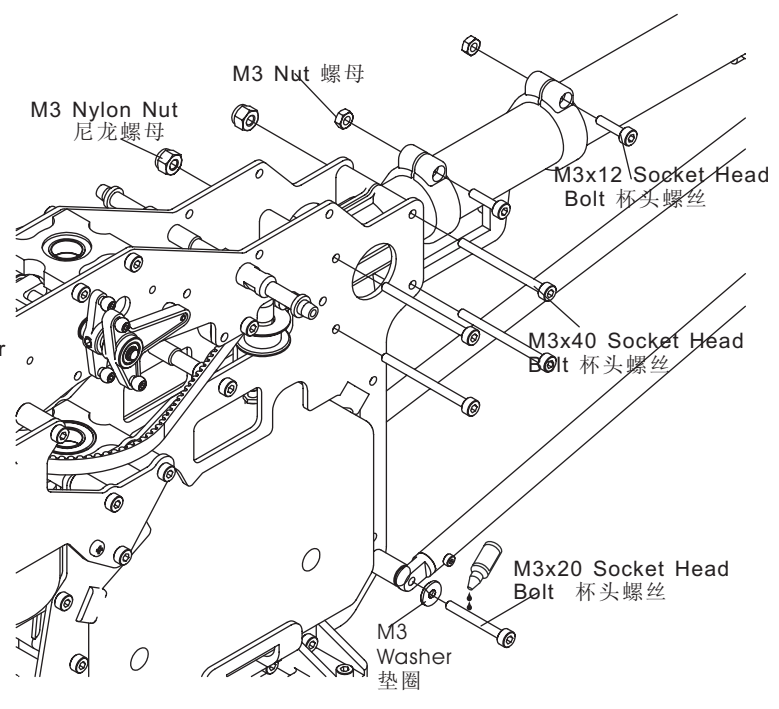
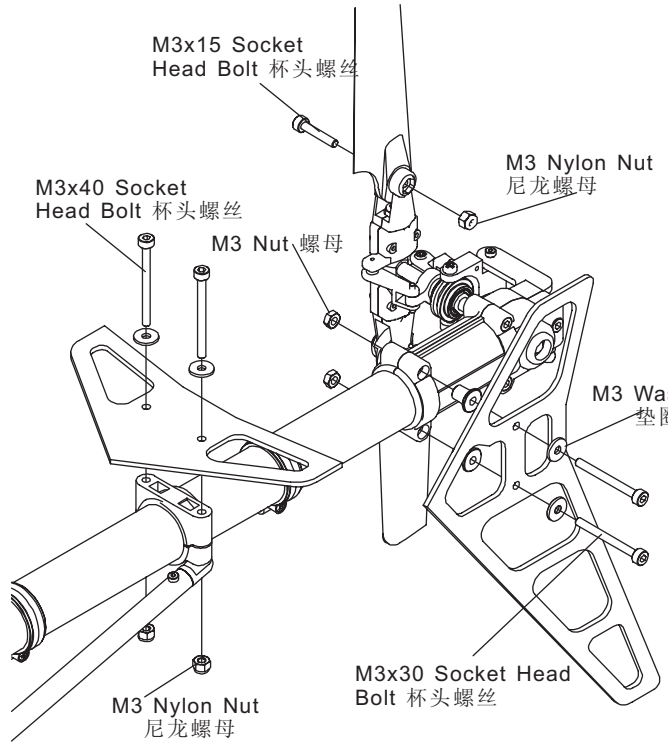
**Note: Apply special engine tool when fixing Fan Hub on the engine. And make sure Fan Hub Set is firmly tightened on the Engine.**  
**Caution** 务必采用如图专用工具装配引擎, 以免造成不必要得损伤. 务必确认风扇座与引擎装配牢固.



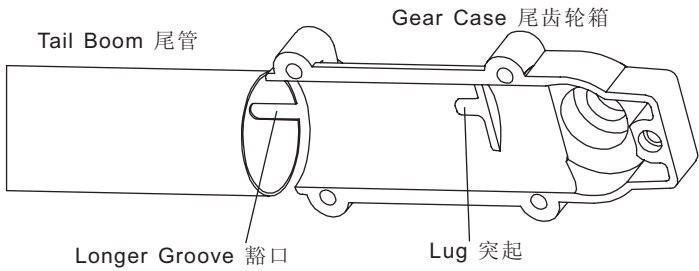
**Caution** Leave 0.2~0.5mm room between the top of the clutch & the clutch bell. Fail to do that could cause engine damage.  
 务必在离合器钟与离合器之间留0.2~0.5毫米的空隙, 以免会伤害引擎.

### Step 3 Tail Boom, Tail Boom Brace & Tail Rotor Installation 尾部的装配

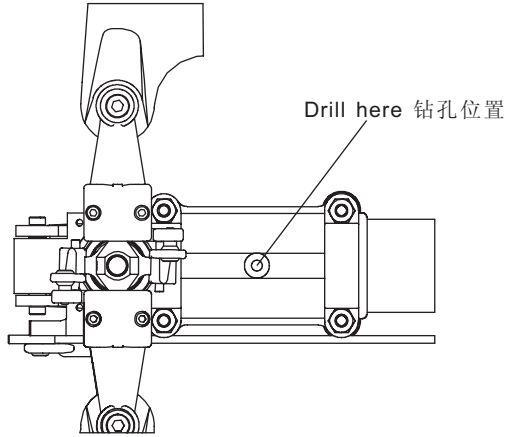
-   
 M3 Washer x4  
M3 垫圈x4
-   
 M3 Nylon Nut x8  
M3 尼龙螺母 x8
-   
 M3 Nut x4  
M3 螺母x4
-   
 M3x40 Socket Head Bolt x6  
M3x40 杯头螺丝 x6
-   
 M3x15 Socket Head Bolt x2  
M3x15 杯头螺丝 x2
-   
 M3x12 Socket Head Bolt x2  
M3x12 杯头螺丝 X2
-   
 M3x16 Socket Head Bolt x8  
M3x16 杯头螺丝 x8



**Caution**  **Crimping damages the tensile cords and will result in premature failure.**  
 勿折皮带, 以免引起损坏.

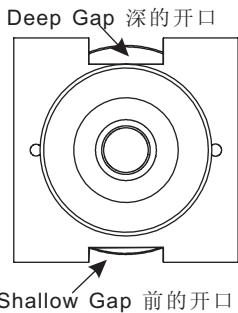


There are 2 grooves in the Boom. There is a lug inside the Tail Gear Case. Line up the longer groove with the lug when assembling.  
 装配时, 将尾管上的豁口对准尾齿轮箱内的突起.

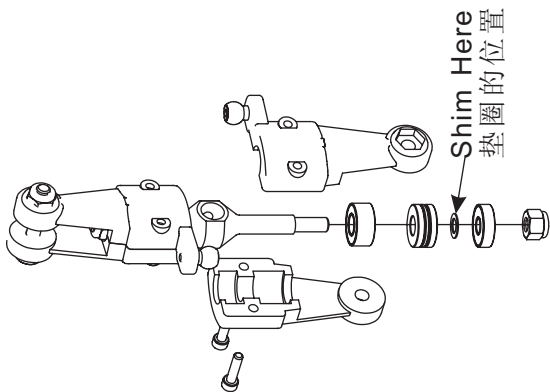
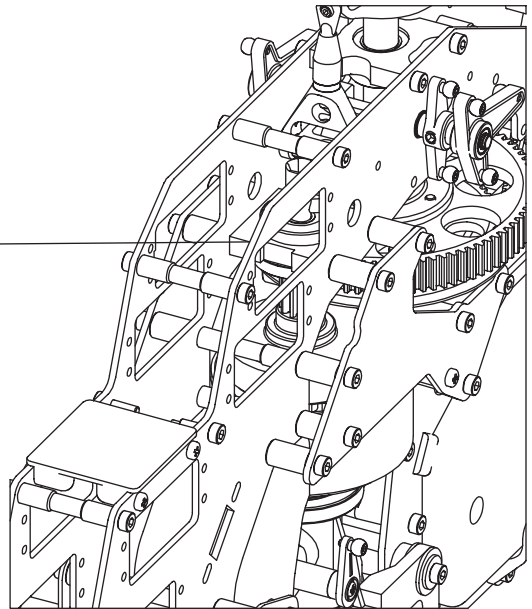


To avoid any tail gear case rotation drill a hole in the boom through the guide hole on the tail gear case and fix it using a bolt.  
 也可在尾齿轮箱指示位置钻孔, 并以螺丝穿入以防止尾管转动.

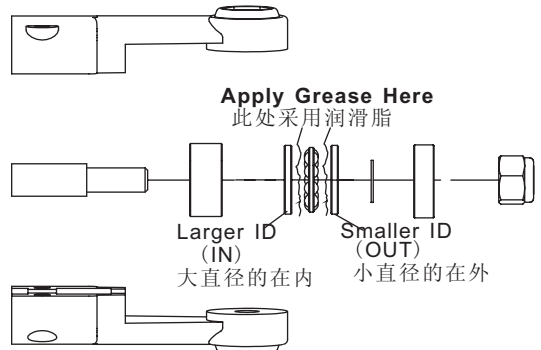
During re-assembly check for correct orientation of the bearing block.  
 如果要自己重新装配, 务必注意轴承座的方向



Note: The shallow gap faces forward  
 注意: 浅的开口朝前

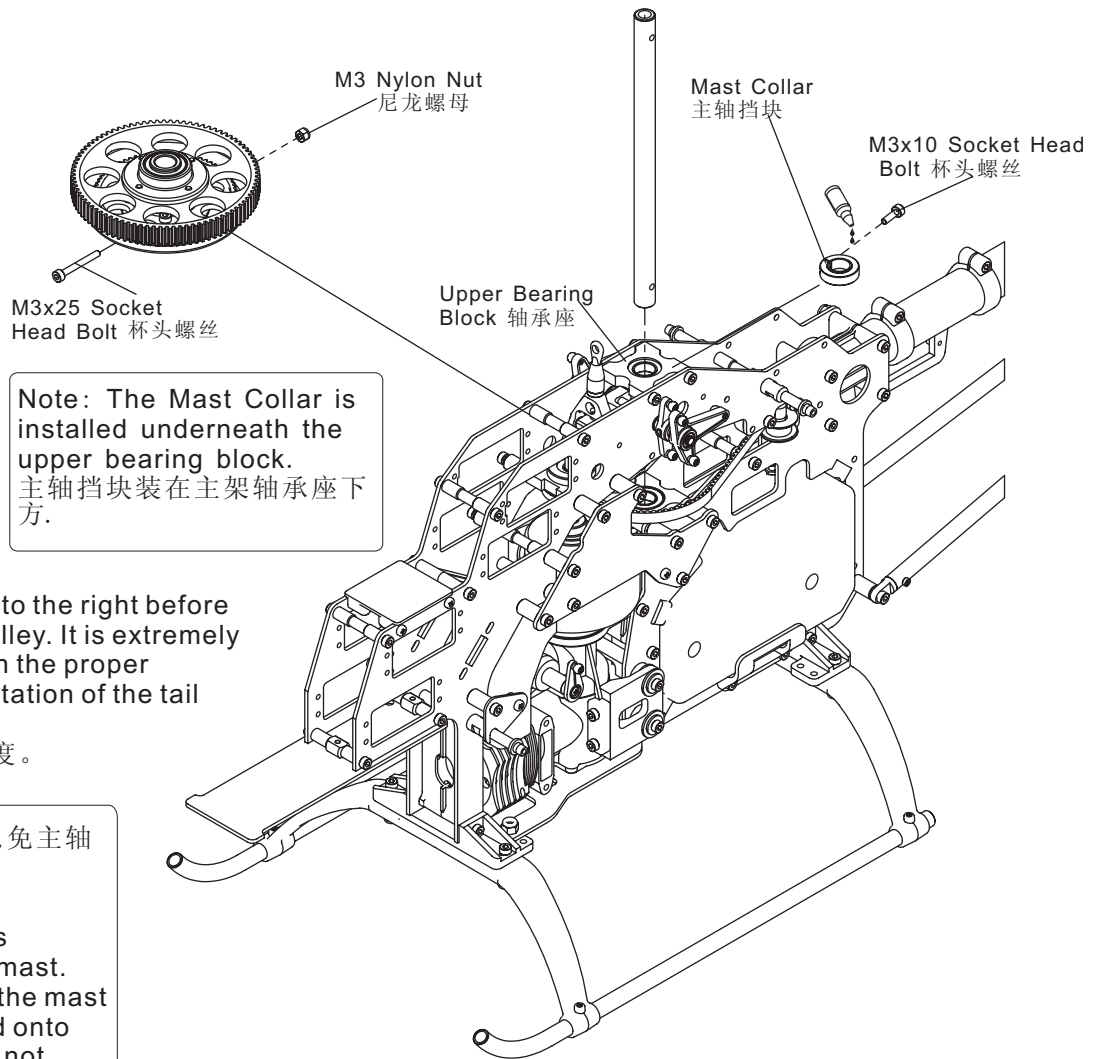
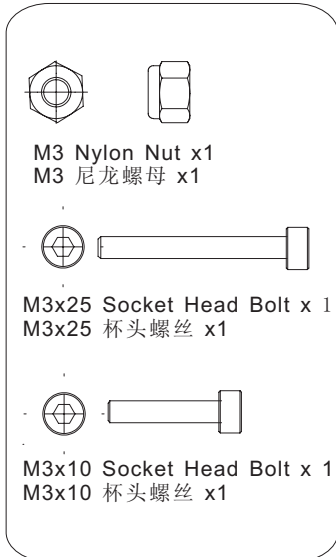


During re-assembly of the tail blade holders check that the thrust bearing is correctly installed and that the shim is installed in the correct position.  
 如要重新装配, 务必注意尾桨夹内的压力轴承的方向, 务必将如图示的垫圈装到正确位置.






## Step 4 Main Gear Installation 齿轮的装配



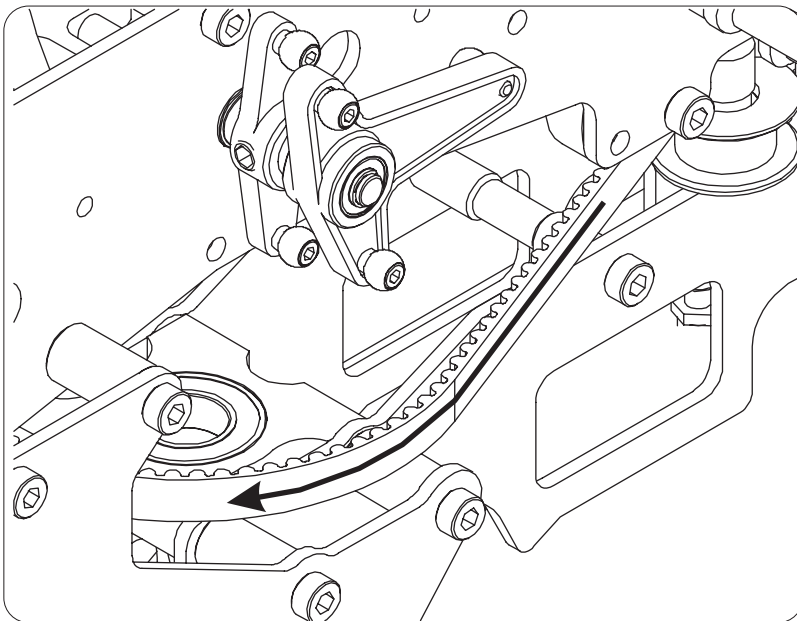
Rotate the tail drive belt 90° to the right before mounting it onto the main pulley. It is extremely important to install the belt in the proper direction to insure correct rotation of the tail rotor blades.

装配同步带时需向右拧转90度。

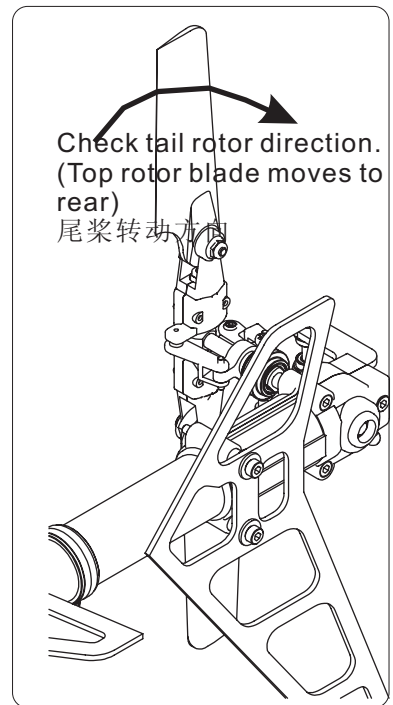
 主轴挡块务必锁紧以免主轴飞行时上下移动。

Caution

Make sure mast lock collar is tightened securely onto the mast. Double-check to make sure the mast lock collar is properly seated onto the mast and main shaft can not move up or down.

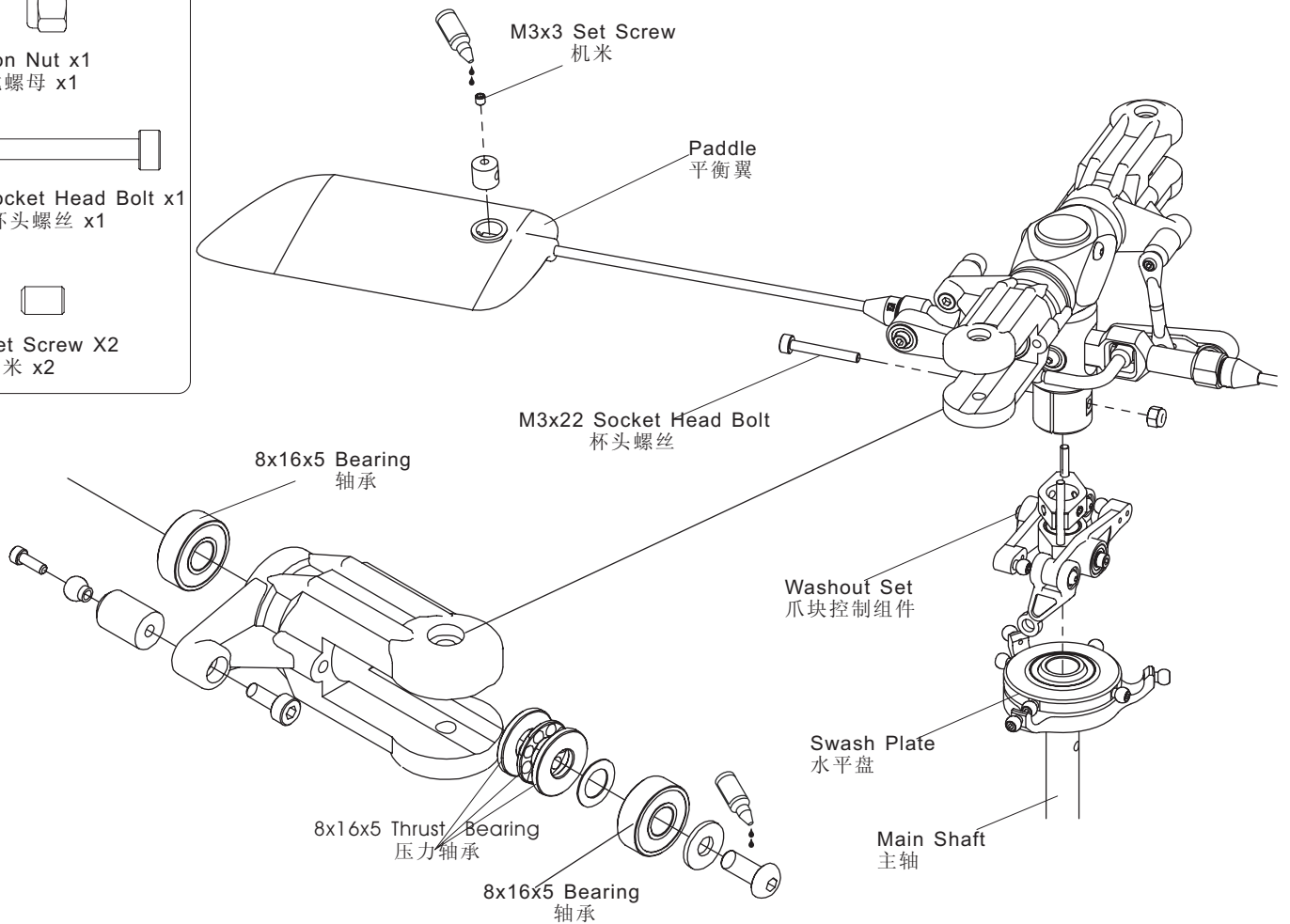
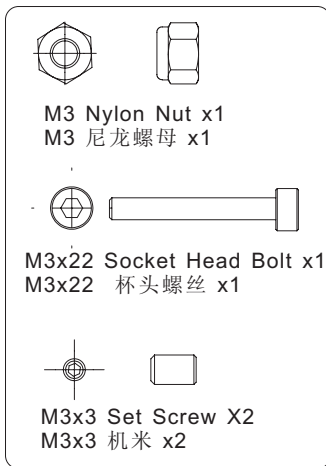


Check tail drive belt direction.  
同步带运行方向



If the tail rotor rotates incorrectly, simply pull out the main shaft and twist the belt in the other direction  
当同步带如上图方向运行时,尾桨应向后方转动,如右上图所示。如尾桨转动方向相反,则同步带的安装方向错了。拉出主轴,翻转皮带从新装配。

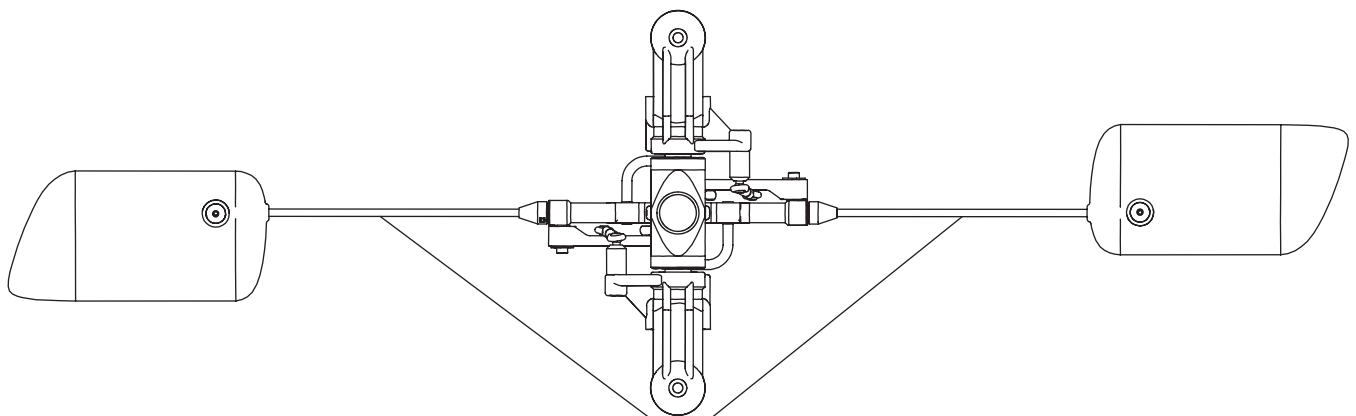
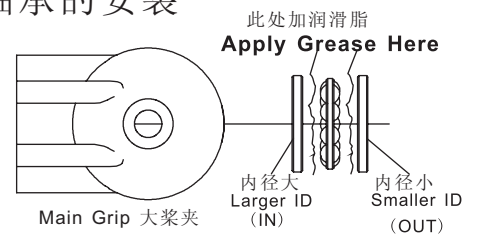
## Step 5 Rotor Head, Washout & Swashplate Installation 旋翼头的装配



### Thrust Bearing Direction 压力轴承的安装

Main grips are factory preassembled, in case of reassembling; be sure to note correct placement of large/small I.D. washers during assembly.

大桨夹已经事先组装好了, 如果想自己重新检查, 在重新组装时请注意压力轴承的安装方向。



Adjust so that each side has exactly the same length 两边距离要一致

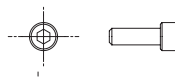
## Step 6 Servo & ESC Installation 舵机的装配



M2.5 Washer x16  
M2.5 垫圈 x16



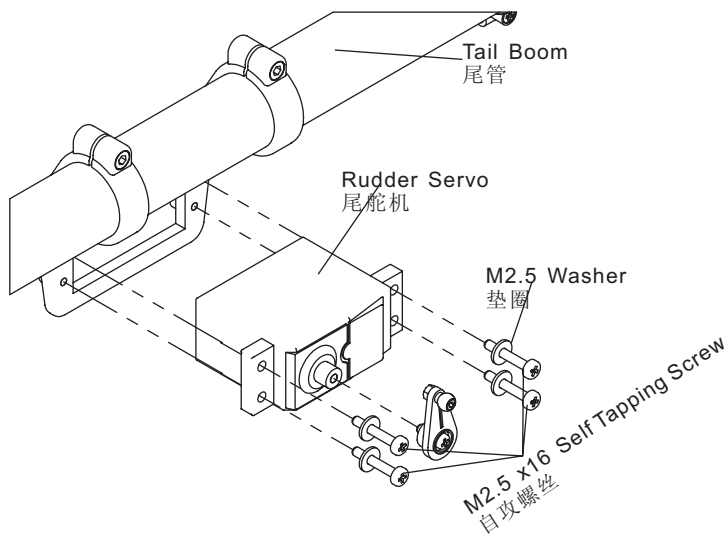
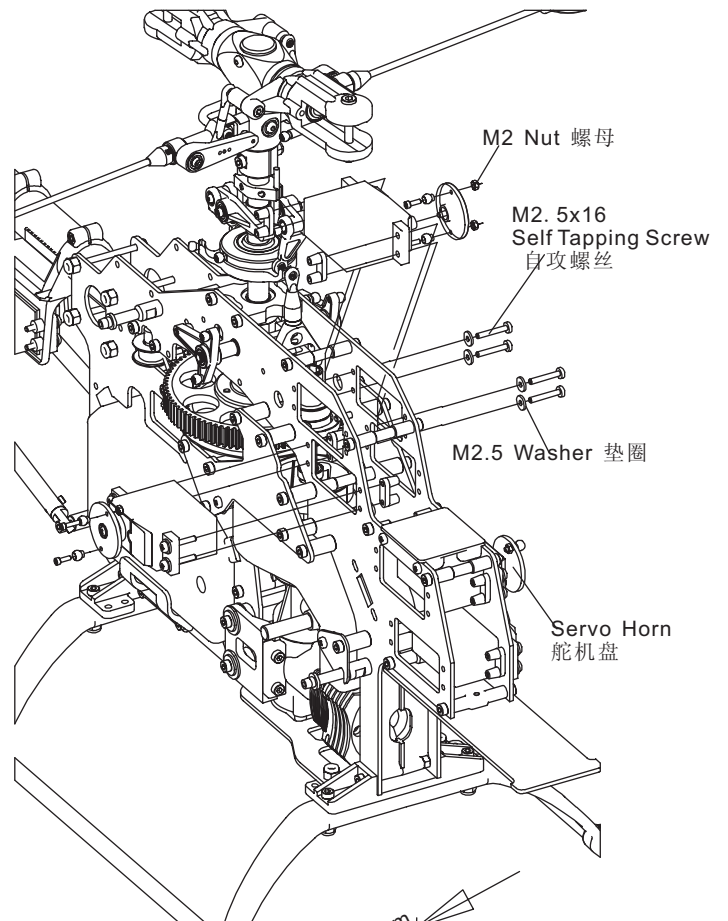
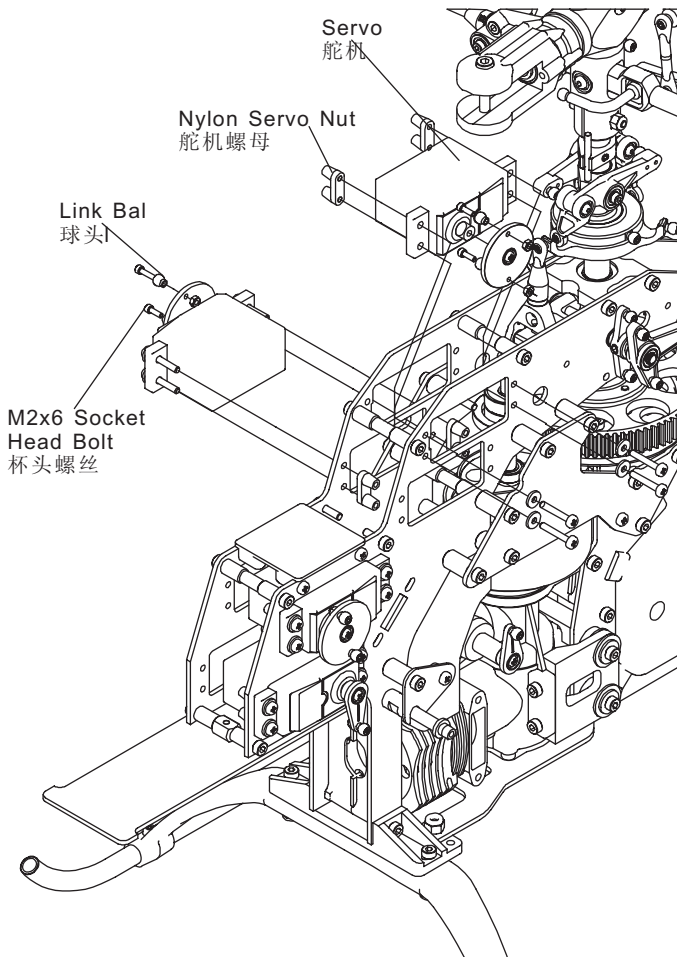
M2 Nut x7  
M2 螺母 x7



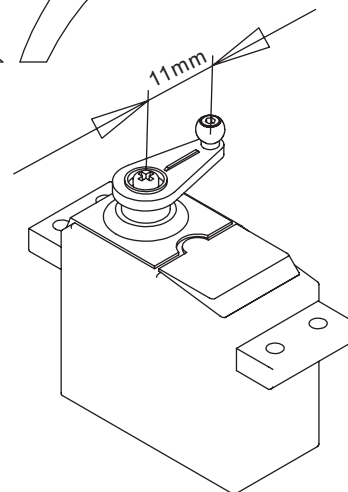
M2x6 Socket Head Bolt x7  
M2x6 杯头螺丝 x7



M2.5x16 Self Tapping Screw x16  
M2.5x16 自攻螺丝 x16

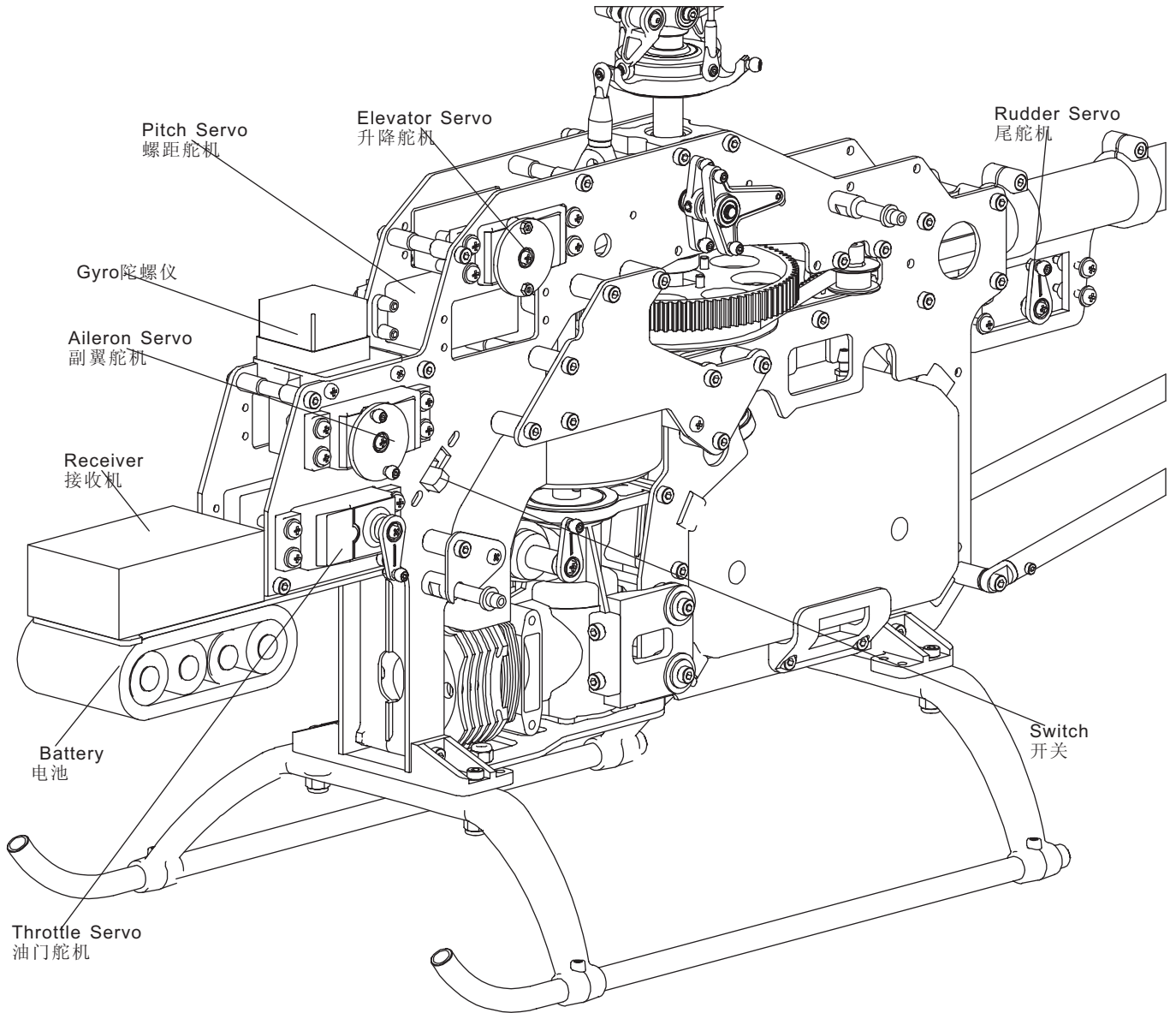


Rudder Servo Installation  
尾舵机的装配



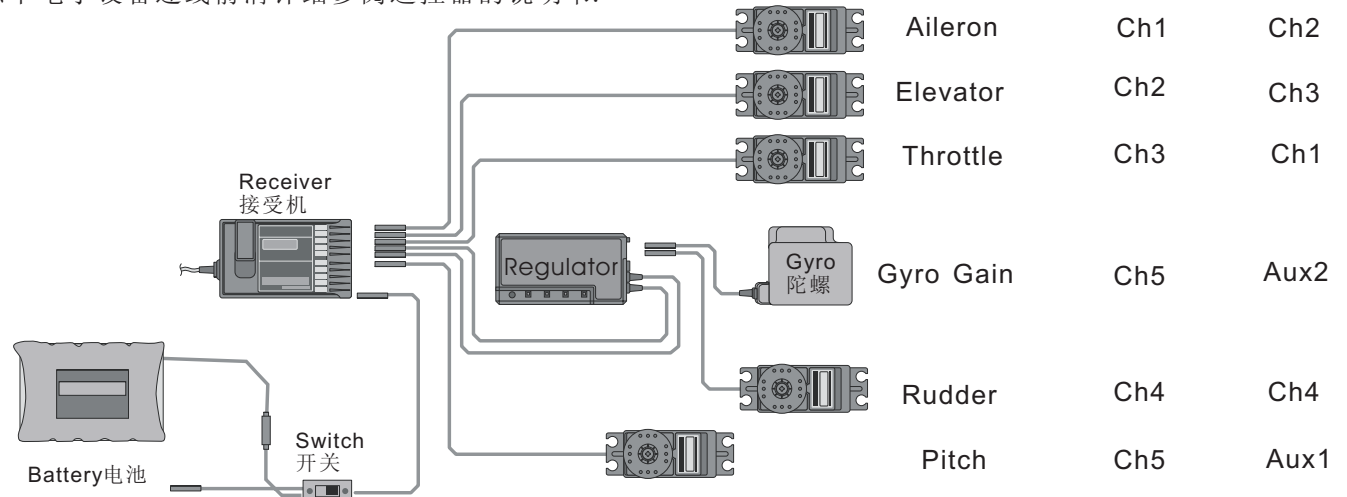
All control balls should be set to **11mm** from the center.  
所有舵机控制臂上的球头应设置在距中心11毫米的距离上。

## Step 7 Electronic Devices Arrangement 电子设备的装配

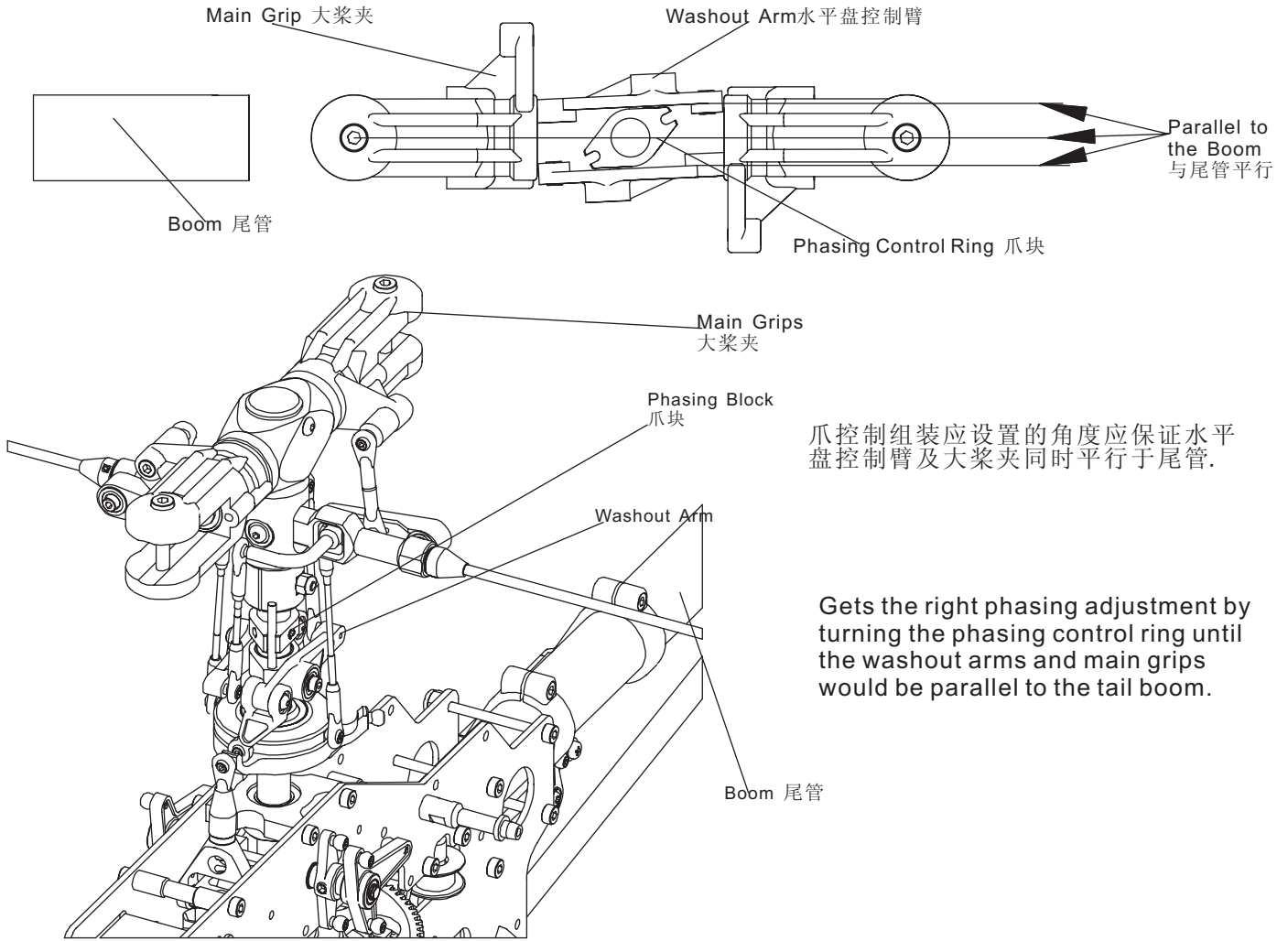


Please check first your radio manuals before connecting these electronic devices as shown below.

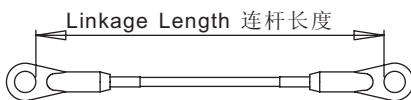
以下电子设备连线前请详细参阅遥控器的说明书。



## Step 8 Phasing Control Ring Adjustments 相位角度

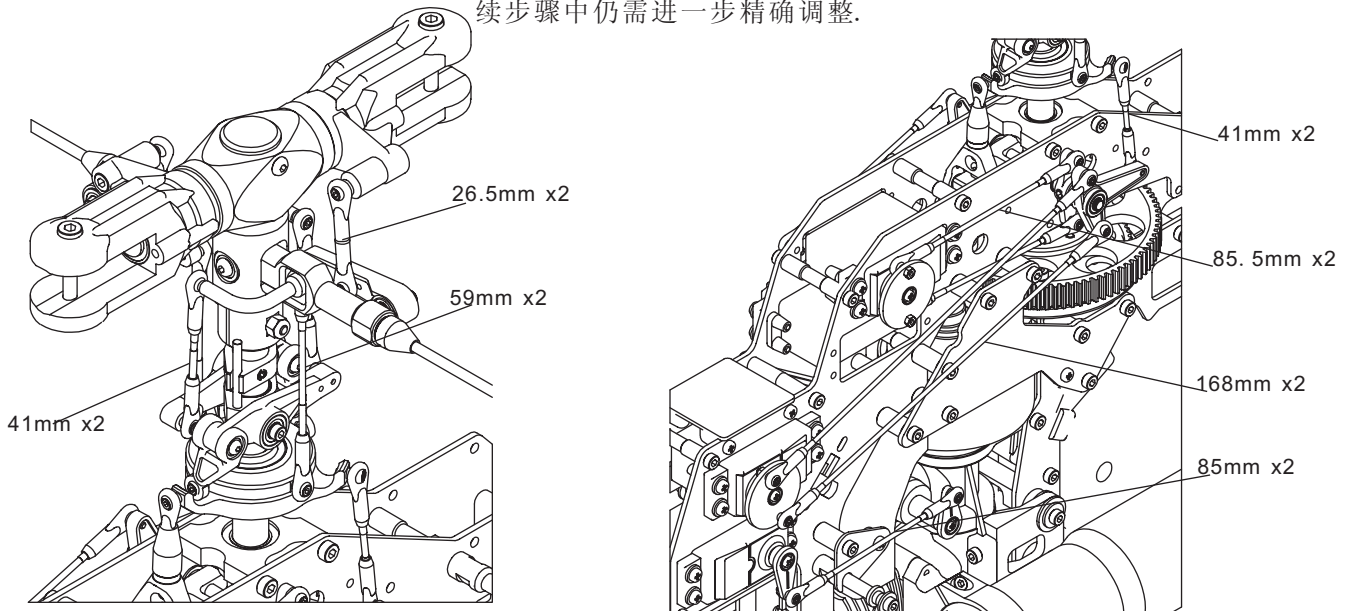


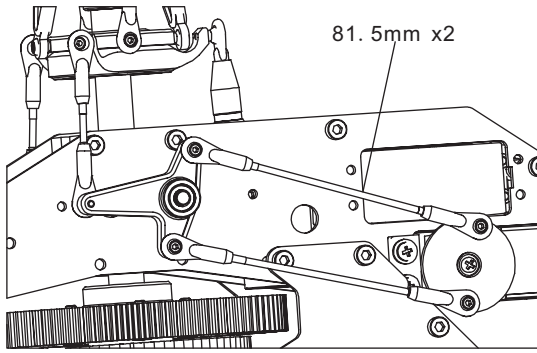
## Step 9 Linkage Length Adjustments 连杆长度



**All linkage length are measured in this way. The following linkage lengths indications are basic values which could vary depend on used servos. Some fine adjustments are still needed in following setup steps.**

所有连杆长度测量方式如左图所示. 以下所示连杆长度仅为初步设定, 后续步骤中仍需进一步精确调整.

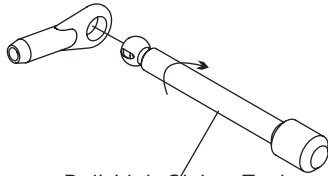




Caution

**Do not apply plier to resize Ball links. Pliers could cause hidden damage to ball links and hence result in failure when operation.**

切勿用钳子挤捏球头接头, 钳子会造成球头接头的潜在伤害从而导致飞行事故.



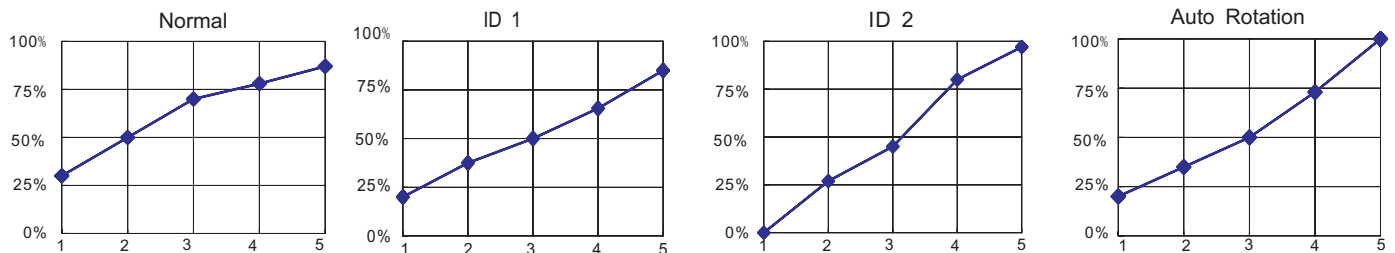
Ball Link Sizing Tool  
球头接头工具

If Ball Links are too tight, to resize tight ball links only use the Compass Model ball link sizing tool (E-XQT-01)  
The Ball Link Sizing Tool is very sharp, use it with caution, do not over size Ball Links, and do not adjust with pliers.

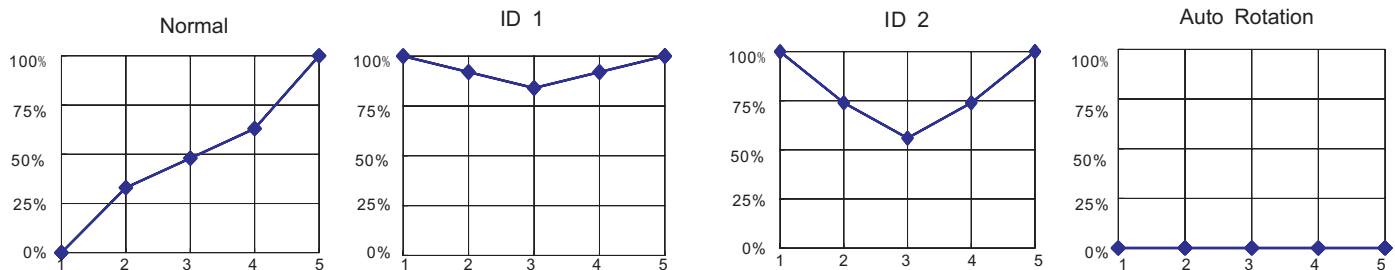
如果球头接头太紧, 请采用如左图的球头接头工具扩大球头接头尺寸. 切忌用钳子挤捏, 以免造成潜在危险.

## Step 10 Radio Setting 遥控器的设定

### Pitch Curve 螺距曲



### Throttle Curve 油门曲线



### Pitch Setting 螺距范围

	Normal	ID1 Sport	ID2 3D	Autorotation
High Pitch	9~10	10	12	12
Hovering	5~5.5	4~5	0	N/A
Low Pitch	-4	-6	-12	-7

### Swash Type Setting 水平盘混合比设定

JR		Futaba
Swash Type		SWH
S3 120		SR3
Aile	Elev	Pitch
65%	65%	65%

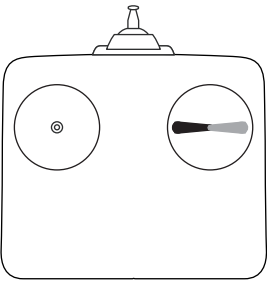
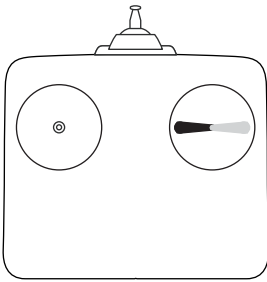
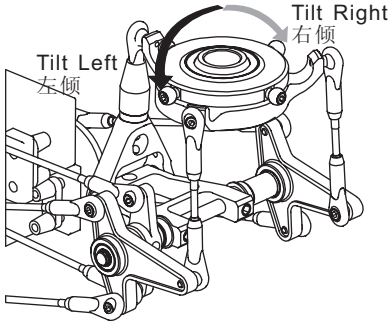
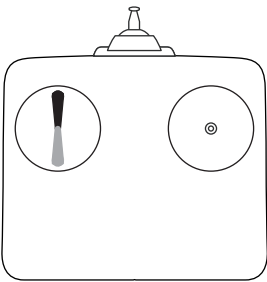
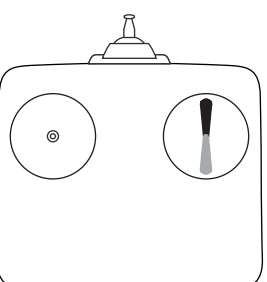
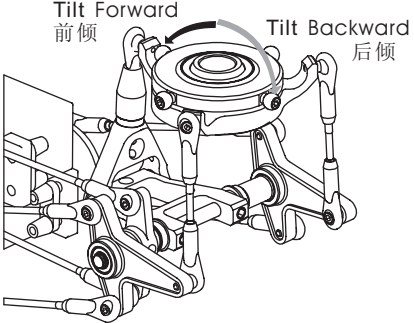
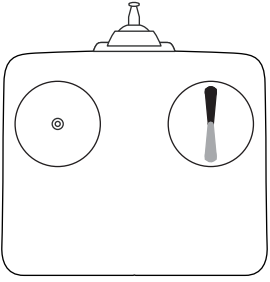
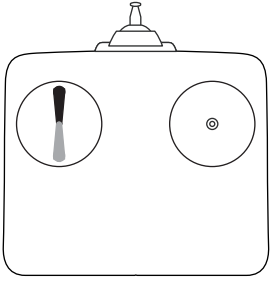
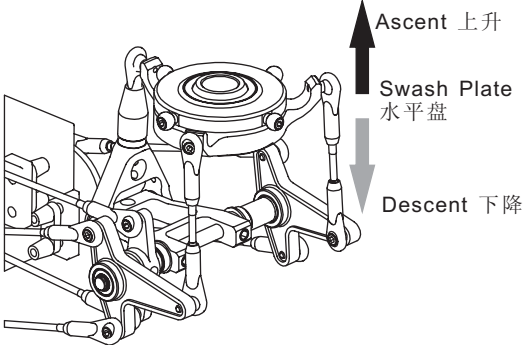
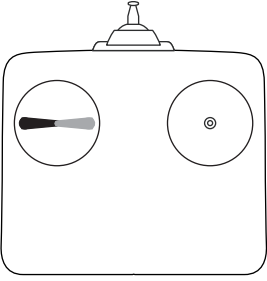
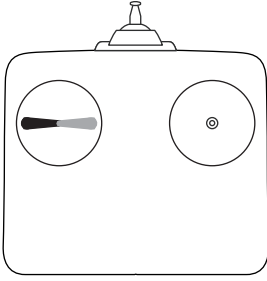
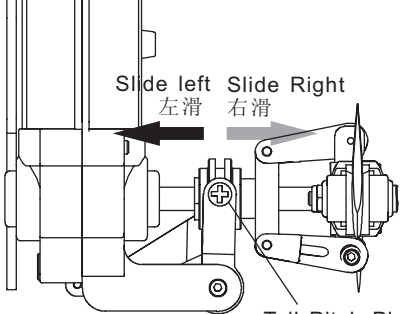
**For any radio setup please refer to your radio instructions first.**

The data's shown above provide some general suggestions for radio setting. This information varies according to types of main blades, motor, pinion gear and engine. Adjustment has to be made during the actual flight. 以上设定仅为参考, 请根据实际情况及要求自行调节.

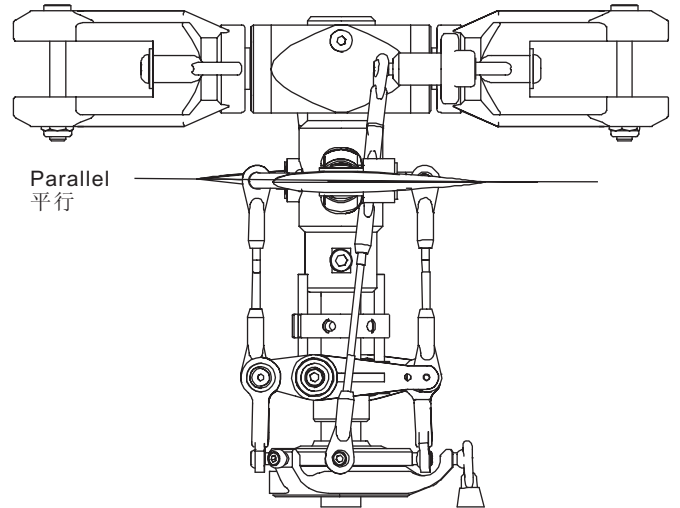
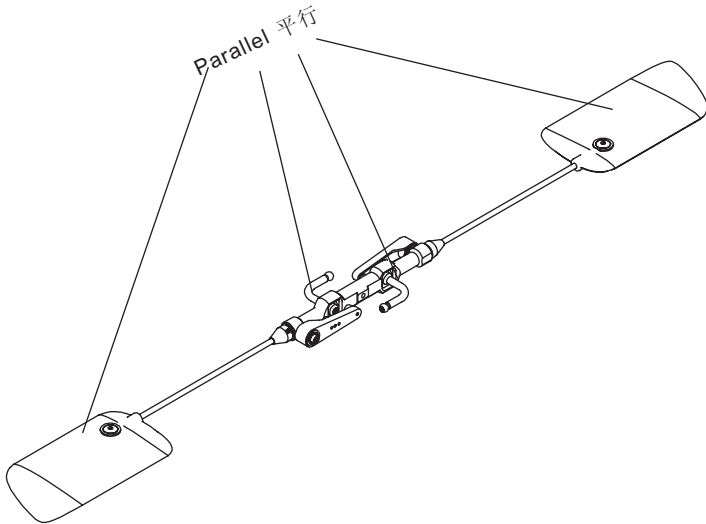
## Step 11 Servo Direction Check 舵机方向的检查

Turn on the radio, position the heli tail point to yourself. Make sure radio is set to 120 degree CCPM mode. Move the stick and check the reaction of the Swash Plate, Throttle and Tail Pitch Plate. Adjust radio settings accordingly.

打开遥控器, 将直升机尾部指向自己. 注意将遥控器设为120度ccpm模式. 如下图摇动控制杆检查各个舵机运动是否正常.

Mod 1	Mod 2	Swash Plate Reaction 水平盘反应
  <p data-bbox="252 824 507 853">Aileron Check 副翼检查</p>		
  <p data-bbox="252 1232 507 1261">Elevator Check 升降检查</p>		
  <p data-bbox="240 1641 475 1671">Pitch Check 螺距检查</p>		
  <p data-bbox="252 2022 507 2051">Rudder Check 尾舵检查</p>	 <p data-bbox="1182 2022 1350 2074">Tail Pitch Plate 尾螺距盘</p>	

## Step 12 Setup 设定



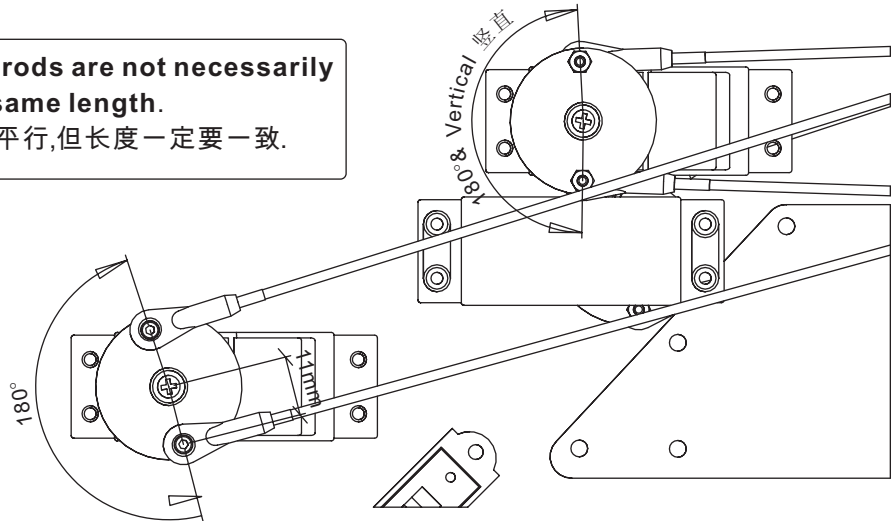
Make sure the Flybar Control Arm and Paddle are in line as in the diagram. Then start to setup.  
保证平衡翼控制臂和平衡翼相互平行, 开始设定.

A) Turn on the radio, set throttle to middle position for 0 degree. Use the subtrim in radio program to adjust all the servo to get control horn to the right angle.

打开遥控器, 在0度螺距时, 油门控制杆在中位. 用遥控设定功能中的“Subtrim”微调各个舵机使其达到下图的角度

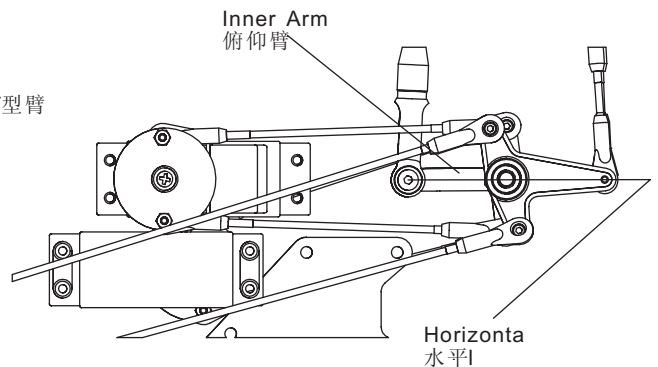
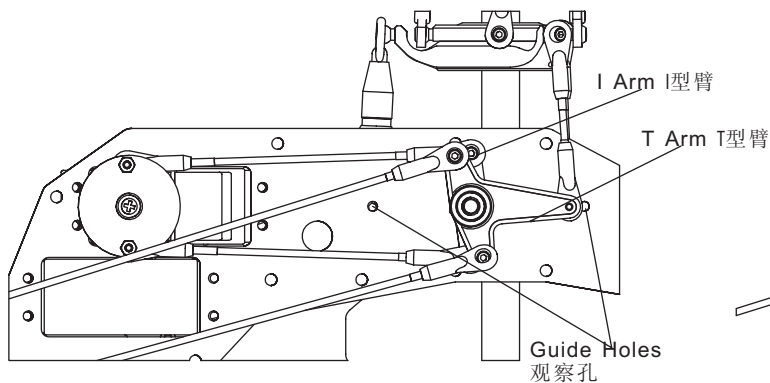
**Note: The 2 Push-pull link rods are not necessarily parallel, but must be the same length.**

注意: 双推拉两个连杆不一定平行, 但长度一定要一致.



B) Next is to adjust the link from servo to the T Arm and I Arm so that the T Arm is Horizontal and the Inner Arm is Horizontal. Use the 2 Guide Holes on the frame to make sure the 2 Arms being horizontal.

下一步, 调节连杆长度使T型臂及俯仰臂水平. 可以用主架上的观察孔确认T型臂及俯仰臂是否水平.

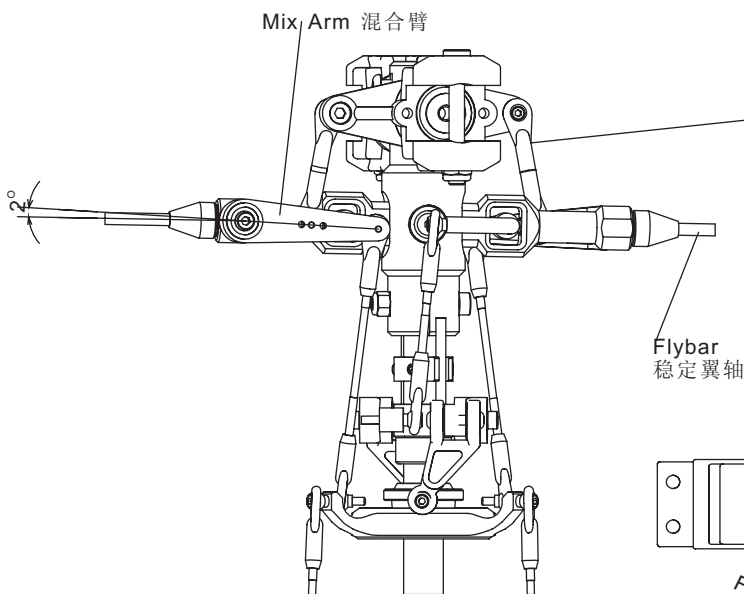
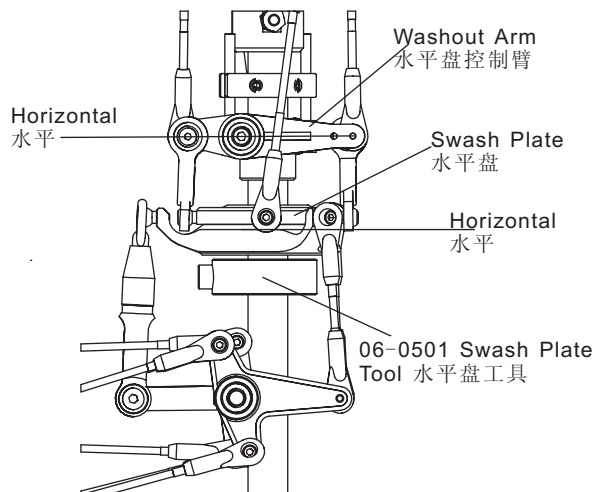




C) Next adjust the links from T Arms to Swash Plate to level Swash Plate. A compass Swash Plate Tool can be applied here as a guide.  
 调节T型臂与水平盘之间的连杆使水平盘水平。此步骤中可以采用水平盘工具作为帮助。

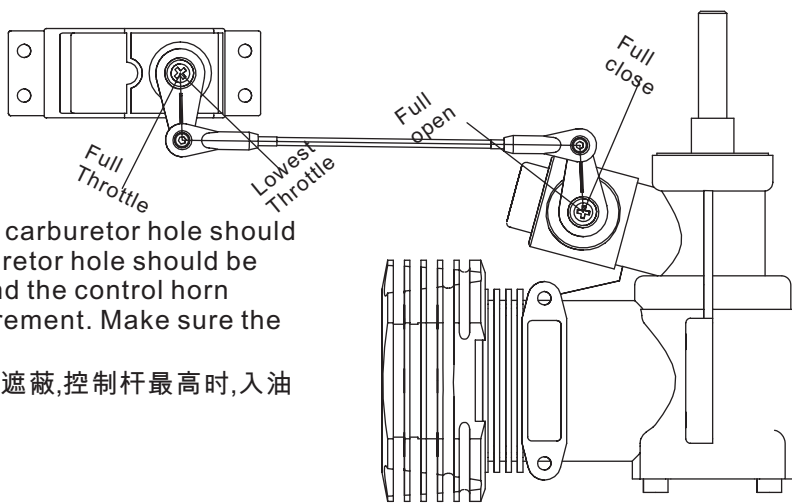
D) Set the Washout Arms horizontal.  
 设定水平盘控制臂水平。

E) Set Mix Arm 2° downwards to Flybar.  
 将混合臂设为与稳定翼成2°角度。

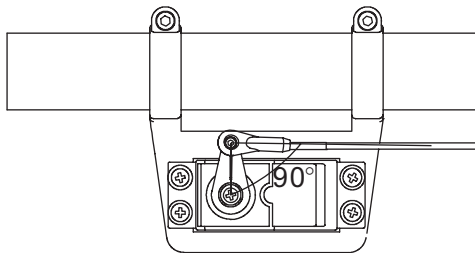
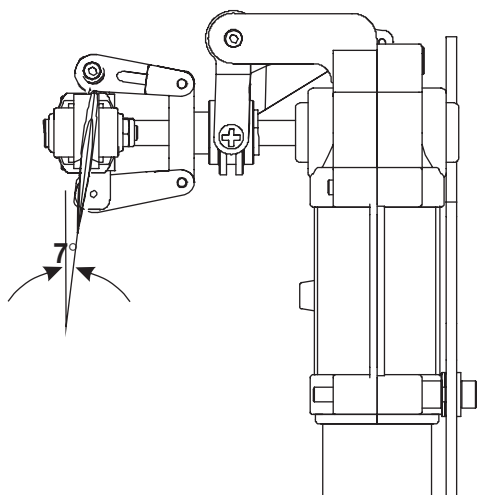


F) Install the main blade and set the Main Blade to 0° pitch. 2 Ball Links might need to be cut shorter to get the right pitch.

装好大桨后，调节连杆长度使大桨设为0°螺距。此步骤中，有两个球头接头可能要切短以便设定。



G) At the low throttle stick and throttle trim, the carburetor hole should be completely close. At full throttle stick, carburetor hole should be completely open. Adjust the ATV in radio, or/and the control horn position on the engine to achieve above requirement. Make sure the servo does not bind at any traveling point.  
 在油门控制杆在最低时，化油器的入油口应被全部遮蔽，控制杆最高时，入油口应全开。详细调节以达到以上要求。



H) At Rudder middle stick, set Rudder Servo 90 degree to the tail link. And set Tail Blade to 7° pitch.  
 调节连杆使尾舵机摇臂与连杆成90度时，尾桨螺距为7度。

## Step 13 Canopy Installation 头罩的装配

Drill holes after checking correct position  
确定位置后再钻孔。

This Mark is only a guide, please put the canopy on the heli frame to obtain the exact position before drilling the hole here.

头罩所示孔位仅作参考。务必将头罩装上机身以精确确定孔位。

Cut along this line  
沿此线切除

Drill a hole on this mark.  
在此标记处钻孔

Canopy Damper  
头罩减震胶

Canopy window  
头罩窗

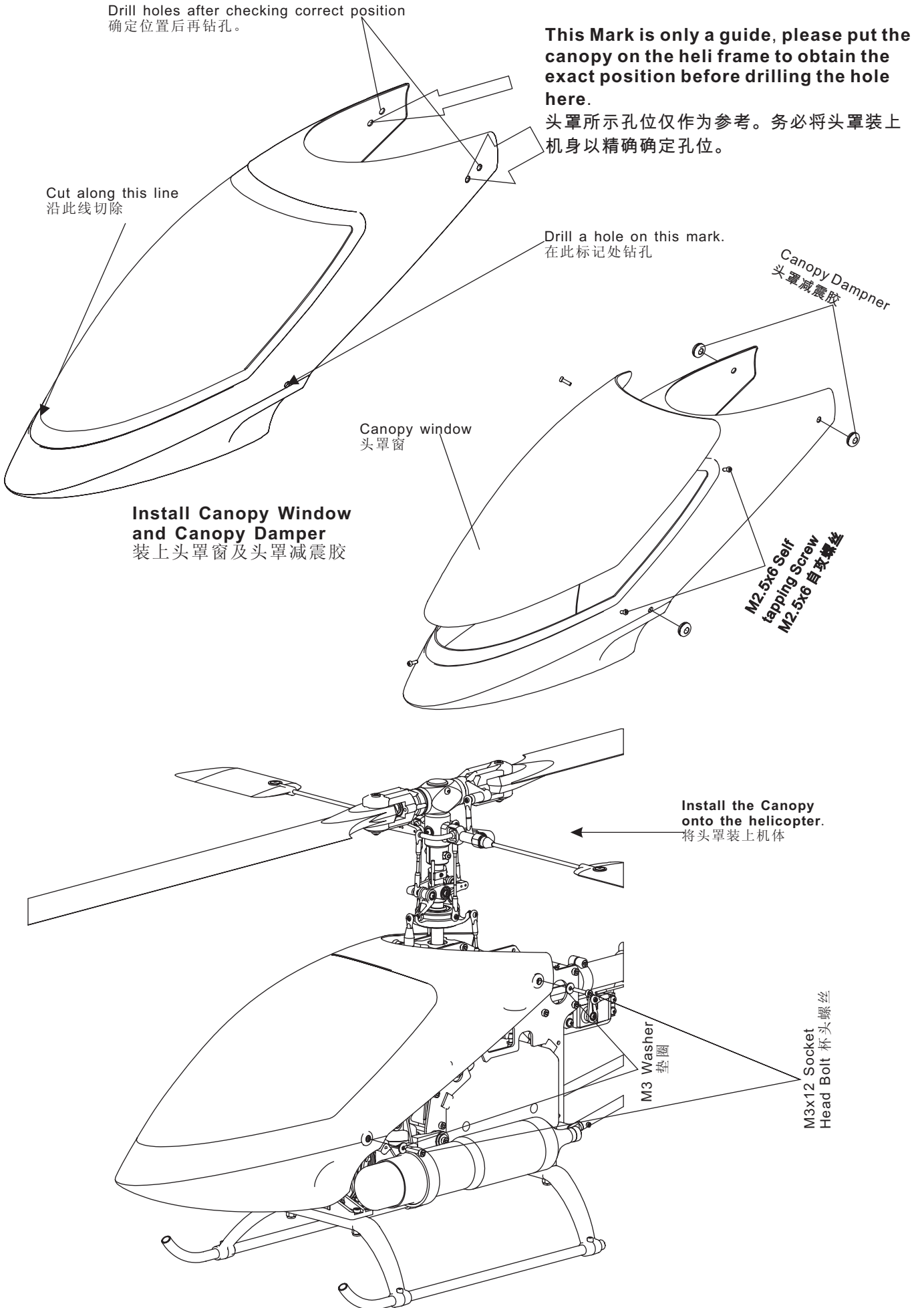
Install Canopy Window and Canopy Damper  
装上头罩窗及头罩减震胶

M2.5x6 Self tapping Screw  
M2.5x6 自攻螺丝

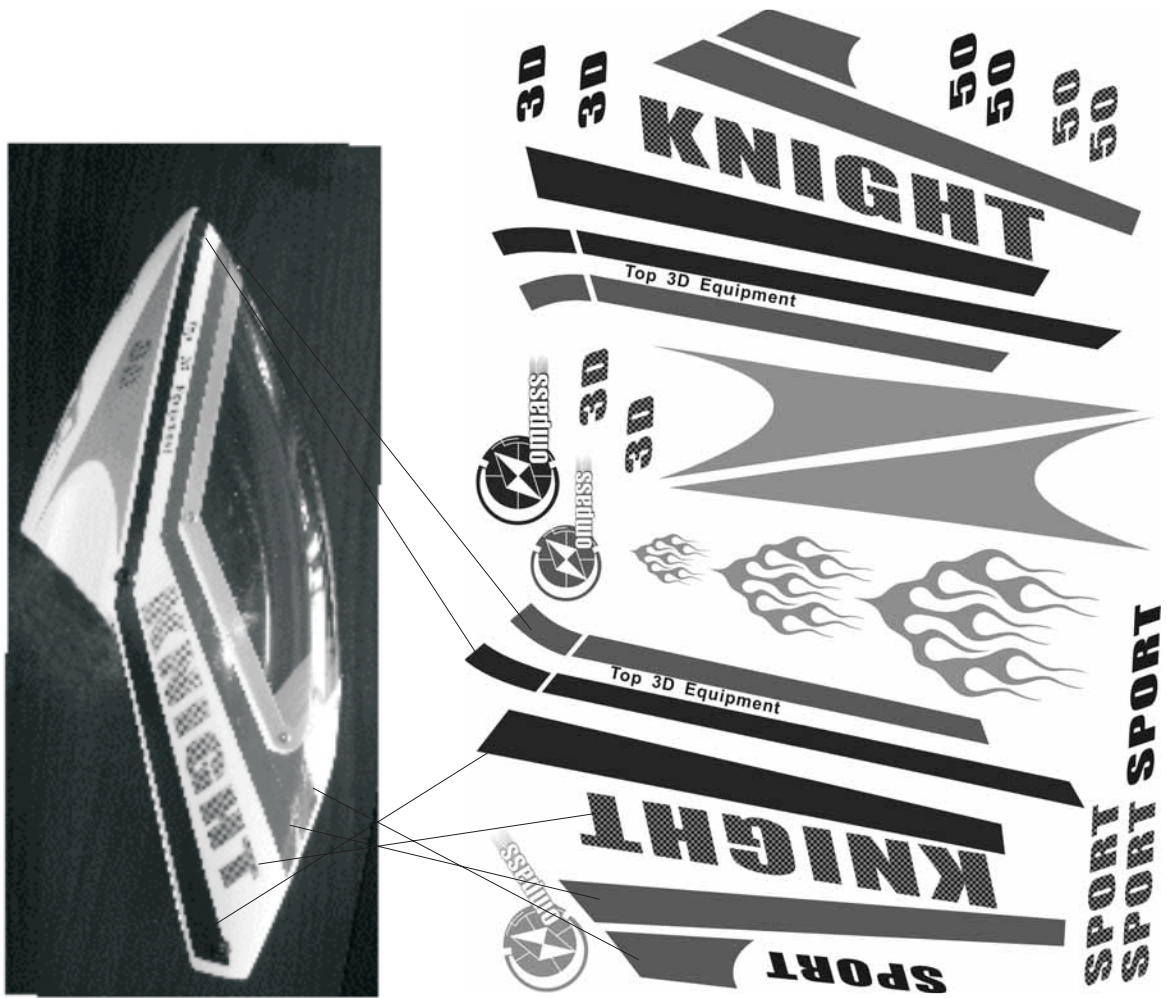
Install the Canopy onto the helicopter.  
将头罩装上机体

M3 Washer  
垫圈

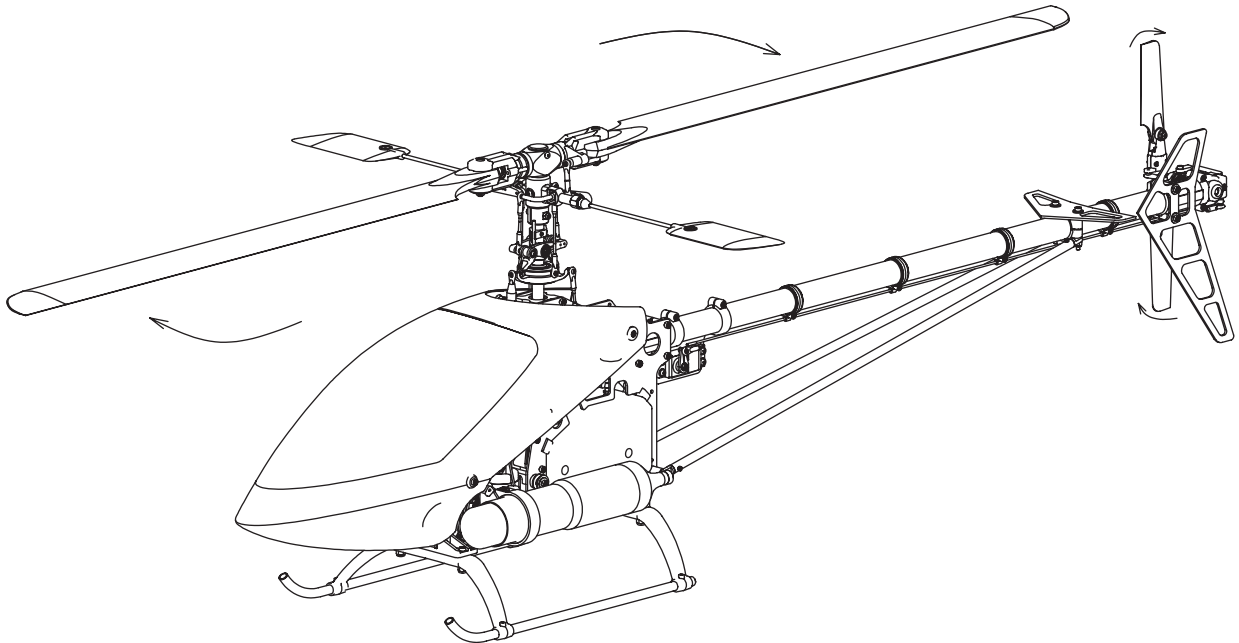
M3x12 Socket Head Bolt  
杯头螺丝



## Decal 贴纸



## Check belt direction 检查皮带方向



**When Main Blades turn clockwise, tail blades should turn clockwise when view from the Tail Fin side. If not the belt is installed incorrectly.**

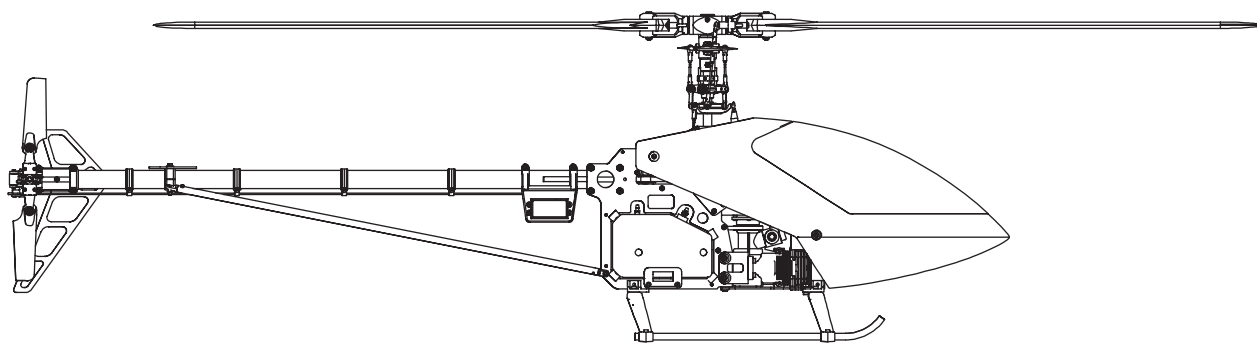
当大桨顺时针旋转时,从垂直尾鳍方向看去,尾桨应顺时针旋转.如果不是,皮带的安装方向不对.

## Pre-Flight Check 飞行前检查

1. **Ensure that receiver & transmitter battery are fully charged.** 确认接受机及发射机的电池充满电.
2. **Check all bolts and screws are tight.** 检查所有螺丝已上紧并已上胶.
3. **Repeat step 11 to check all Servo functions are correct.** 照第11步再次检查各舵机工作正常.
4. **Ensure Tail + Gyro direction are correctly set.** 确认尾舵机及陀螺仪的方向正确.



5. **Check that the Main Blades, Paddles and Tail Blades are installed in the right direction.**  
检查大桨, 平衡翼及尾桨的安装方向是否正确.
6. **Always hold the Rotor Head when starting the engine.**  
启动引擎时务必用手抓住旋翼头.
7. **Check that there are no missing or damaged parts, never fly with any damaged parts.**  
检查有无损坏或缺失的零件. 如有此情况立即更换. 切勿强行起飞.
8. **Make sure all electronic devices are firmly fastened and connected.**  
确认所有电子元件都已连接妥当, 固定妥当.
9. **Before starting the motor make sure the IDLE switch is OFF and Throttle stick is in the low position.** 接通无刷马达电源之前, 确认IDLE开关关闭, 油门控制杆在最低位.
10. **Only turn off the transmitter after turning off the receiver.**  
只在关闭接受机电源后才关闭发射机电源.



**Compass Model (Hong Kong) Ltd.**

康柏模型(香港)有限公司

[www.compassmodel.com](http://www.compassmodel.com)