

ANAFURY T7

组装手册
INSTRUCTION MANUAL

RC HELICOPTERS

ALZRC
WWW.ALZRC.COM

版本 EDITION

N-FURY T7 组装手册
发布日期: 2020-05
版本信息: 202005A

N-FURY T7 Manual
Release Date: 2020-05
Version: 202005A

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前言 INTRODUCTION

感谢您选用ALZRC系列产品, 谨表谢意。进入遥控世界之前必须告诉您许多相关的知识与注意事项, 以确保您能够在学习的过程中得心应手。在开始操作之前, 请务必详阅本说明书, 相信一定能够给您带来相当大的帮助, 也请您妥善保管这本说明书, 以作为日后参考。

Thanks for choosing ALZRC, there's some matters need attention and knowledge you need to know, then just enjoy flying with remote control helicopter. Before you begin, please read this manual very carefully for your safety and also keep this manual properly for reference.

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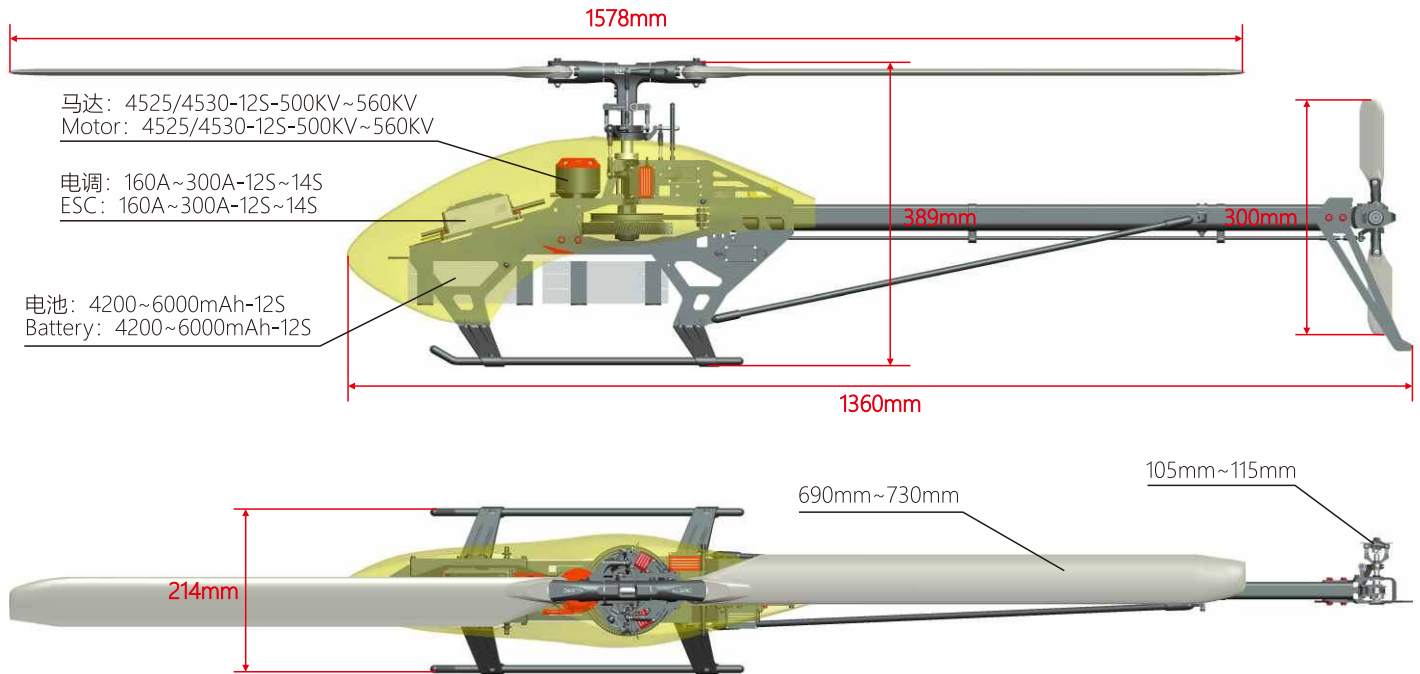
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规格说明 SPECIFICATION



主轴直径: 15mm
横轴直径: 10mm
尾轴直径: 6mm
尾横轴直径: 5mm

Main shaft Diameter: 15mm
Spindle Shaft Diameter: 10mm
Tail rotor shaft Diameter: 6mm
Tail rotor spindle shaft Diameter: 5mm

机身重量: 2850克(含桨, 无电池, 无电子设备)
Weight: 2850g (Including blades, without battery and electronic equipment)

主旋翼直径: 1578mm (700mm)
主旋翼规格: 690mm~730mm
尾旋翼直径: 300mm (105mm)
尾旋翼规格: 105mm~115mm

Main Rotor Diameter: 1578mm (700mm)
Main Blade Length: 700mm~730mm
Tail Rotor Diameter: 300mm (105mm)
Tail Blade Length: 105mm~115mm

电机尺寸: 最大直径65mm、最大高度65mm
电机轴: 6mm
电池尺寸: 70x75x320mm
舵机尺寸: 标准型 40mm 宽
主旋翼齿轮比: 1:10 (马达齿轮11T)
尾旋翼齿轮比: 1:4.7 (尾皮带轮20T)

Motor Size: Maximum diameter 65mm、Maximum high 65mm
Motor Shaft: 6mm
Battery Compartment: 70x75x320mm
Servo Size: Standard 40mm width
Main Rotor Ratio: 1:10 (Motor Pinion 11T)
Tail Rotor Ratio: 1:4.7 (Tail Pinion 20T)

重要声明 IMPORTANT NOTES

遥控直升机并非玩具,它是结合了许多高科技产品所设计出来的休闲用品,所以商品的使用不当或不熟悉都可能会造成严重伤害甚至死亡,使用之前请务必详读本说明书,勿轻忽并注意自身安全。注意!任何遥控直升机的使用,制造商和经销商是无法对使用者于零件使用的损耗异常或组装不当所发生之意外负任何责任,本产品是提供给有操作过模型直升机经验的成人或有相当技术的人员在旁指导于当地合法遥控飞行场飞行,以确保安全无误下操作使用,产品售出后本公司将不负任何操作和使用控制上的任何性能与安全责任。

RC helicopter is not a toy, it is used for leisure activities combined with many high-tech things, so it may cause serious injury or even death under inappropriate operations. Do read this instruction carefully before operating it and pay more attention to the security. Warning! In the use of remote control helicopters, manufacturers and dealers are not in any responsibilities for the accidents caused by the loss of the parts in the abnormal operation or improperly assembling of the helicopter, this product is available for the experienced adults who have operated the helicopters before and the operators who have the substantial technical staff standing by in the local legitimate remote control flying field to ensure the safety. After the sale of the products, ALZRC shall have no responsibilities in the performance and security issues causing in the operations and uses.

模型商品属于需高操作技术且为消耗性之商品,如经拆装使用后,会造成不等情况零件损耗,任何使用情况所造成商品不良或不满意,将无法于保固条件下更换新产品或退货。

RC-model requires a certain degree of skill to operate, and is a consumer item. Any damage or dissatisfaction as a result of accidents or modifications are not covered by any warranty and cannot be returned for repair or replacement.

ALZRC直升机公司及其代理机构皆对此产品的组装、维护及使用不具有任何控制力。因此,任何责任皆无法被回溯至本产品的制造者。您由此同意向ALZRC直升机公司追究任何在使用本产品过程中所产生的责任。

Neither ALZRC Helicopter Division nor its agents have any control over the assembly, maintenance and use of this product. Therefore, no responsibility can be traced back to the manufacturer. You hereby agree to release ALZRC Helicopter Division from any responsibility or liability arising from the use of this product.

安全注意事项 SAFETY NOTES

- 遥控直升机属高危险性商品，飞行时务必远离人群，人为组装不当或机件损坏，电子控制设备不良，以及操控上的不熟悉，都有可能造成飞行失控损伤等不可预期的意外，请飞行者务必注意飞行安全，并需了解自负疏忽所造成任何意外之责任。
- 遥控直升机内部也是由许多精密的电子零组件组成，所以必须绝对的防治潮湿或水气，避免在浴室或雨天时使用，防止水气进入机身内部而导致机件及电子零件故障而引发不可预期的意外。
- 在组装这架遥控直升机前，必须认真阅读本组装机册及各个设备商的使用手册。
- 初接触遥控直升机的人员，必须有专业人员陪同。
- 所有操作这架遥控直升机的人员，都必须采取适当的安全措施。
- 直升机飞行是具有一定的速度，相对的也潜在着危险性，场地的选择也相对的重要，请需遵守当地法规到合法遥控飞行场地飞行，必须注意周遭有没有人、高楼、建筑物、高压电线、树木等等。避免操控的不当造成自己与他人财产的损坏。初次练习时，务必选择在空旷合法专属飞行场地并适当搭配练习架练习飞行，这对飞行失误所造成的损伤将会大幅的降低。请勿在下雨、打雷等恶劣天气下操作，以确保本身及机身的安全。
- 操作遥控直升机可能有意想不到的危险行为发生，所以操作遥控直升机是非常危险的。
- 遥控直升机必须定期维护。
- Fly only in safe areas, away from other people. Do not operate R/C aircraft within the vicinity of homes or crowds of people. R/C aircraft are prone to accidents, failures, and crashes due to a variety of reasons including, lack of maintenance, pilot error, and radio interference. Pilots are responsible for their actions and damage or injury occurring during the operation or as of a result of R/C aircraft models.
- R/C models are composed of many precision electrical components. It is critical to keep the model and associated equipment away from moisture and other contaminants. The introduction or exposure to water or moisture in any form can cause the model to malfunction resulting in loss of use, or a crash. Do not operate or expose to rain or moisture.
- This radio controlled helicopter must be built following these instructions. This manual provides the necessary information to correctly assemble the model. It is necessary to carefully follow all the instructions.
- Inexperienced pilots must be monitored by expert pilots.
- All operators must wear safety glasses and take appropriate safety precautions.
- R/C helicopters fly at high speed, thus posing a certain degree of potential danger. Choose an a legal flying field consisting of fiat, smooth ground without obstacles. Do not fly near buildings, high voltage cables, or trees to ensure the safety of yourself, others and your model. For the first practice, please choose a legal flying field and can use a training skid to fly for reducing the damage. Do not fly your model in inclement weather, such as rain, wind, snow or darkness.
- A radio controlled helicopter can behave in an unexpected manner, causing loss of control of the model, making it very dangerous.
- Lack of care with assembly or maintenance can result in an unreliable and dangerous model.

实机飞行前请严格执行飞行前检查义务 CAREFULLY INSPECT BEFORE REAL FLIGHT

- 每次飞行前应先确认所使用的遥控发射频率是否会干扰他人，以确保你自身与他人的安全。
- 每次飞行前确定您遥控器与接收器电池的电量是在足够飞行的状态。
- 开机前确认遥控器油门摇杆是否位于最低点，熄火降落开关，定速开关(IDLE)是否于关闭位置。
- 关机时必须遵守电源开关机的程序，开机时应先开启遥控器后，再插上接收器电源；关机时应先拔出接收器电源后，再关闭遥控器。不正确的开关程序可能会造成失控的现象，影响自身与他人的安全，请养成正确的习惯。
- 开机请先确认遥控直升机的各个动作是否顺畅及方向是否正确，并检测舵机的动作是否有干涉或崩齿的情况，使用故障的舵机将导致不可预期的危险。
- 飞行前确认没有缺少或松脱的螺丝与螺帽，确认没有组装不完整或损毁的零件，仔细检测主旋翼是否有损坏，特别是接近主旋翼夹座的部位。损坏或组装不完整的零件不仅影响飞行，更会造成不可预期的危险。注意：对损耗，有裂痕零件更新及定期保养检测的重要性。
- 检查所有的连杆头是否有松脱的情形，过松的连杆头应先更新，否则将造成直升机无法操控的危险。
- 确认电池及电源插头是否固定牢靠，飞行中的震动或激烈的飞行，可能造成电源插头松脱而造成失控的危险。
- Before flying, please check to make sure no one else is operating on the same frequency for the safety.
- Before flight, please check if the batteries of transmitter and receiver are enough for the flight.
- Before turn on the transmitter, please check if the throttle stick is in the lowest position. IDLE switch is OFF.
- When turn off the unit, please follow the power on/off procedure. Power ON-please turn on the transmitter first, and then turn on receiver. Power OFF-Please turn off the receiver first and then turn off the transmitter. Improper procedure may cause out of control, so please to have this correct habit.
- Before operation, check every movement is smooth and directions are correct. Carefully inspect servos for interference and broken gear.
- Check for missing or loose screws and nuts. See if there is any cracked and incomplete assembly of parts. Carefully check main rotor blades and rotor holders. Broken and premature failures of parts possibly cause resulting in a dangerous situation.
- Check all ball links to avoid excess play and replace as needed. Failure to do so will result in poor flight stability.
- Check the battery and power plug are fastened. Vibration and violent flight may cause the plug loose and result out of control.

标符注释 LEGEND

在组装过程中，如果出现以下标符，请认真执行每个标符的操作。
It is necessary to pay attention to the symbols listed below.

 因为疏忽这些操作说明，可能造成不必要的麻烦。而安装错误可能造成危险。
注意
CAUTION
 Mishandling due to failure to follow these instructions may result in danger.



螺丝胶
THREAD LOCK

使用螺丝胶固定。
Apply Thread Lock to fix.



轴承胶
ANAEROBICS RETAIN

使用金属管状固定缺氧胶固定。
Apply Anaerobics Retain to fix.



润滑油
GREASE

涂上润滑油。
Apply grease.



瞬间胶
CA GLUE

使用瞬间胶固定。
Apply CA glue to fix.



已经完成组装
Already Assembled



螺丝胶涂于螺丝的螺纹上。
长度约1mm。
Glue width: approx.1mm



轴承胶涂于轴承的外圈。
Apply anaerobics retain to the outer ring.

自备遥控及电子设备 RADIO TRANSMITTER AND ELECTRONIC EQUIPMENT REQUIRED FOR ASSEMBLY

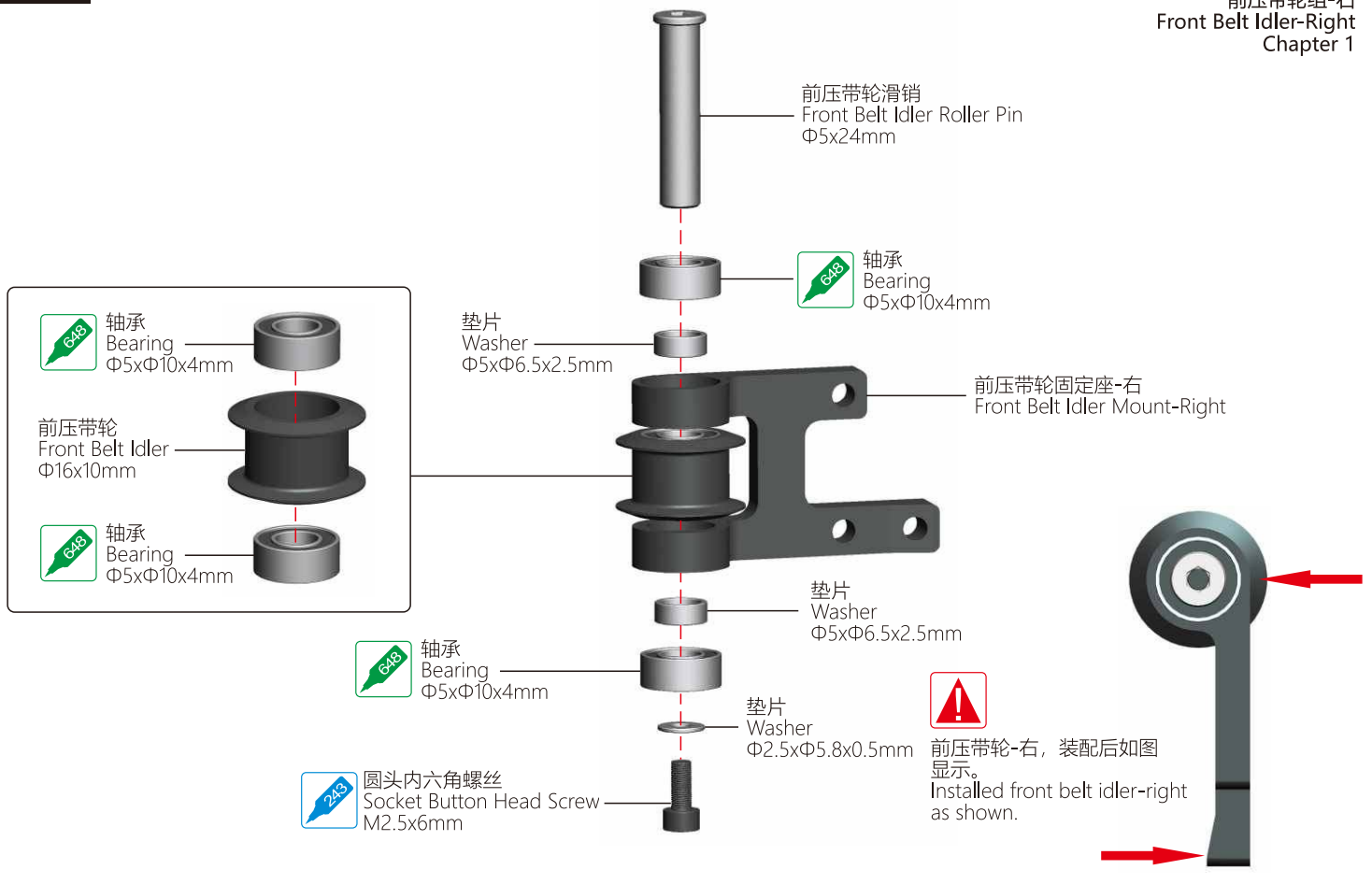
- 遥控器 (六通道以上直升机模式遥控器)
- 接收器 (六通道以上)
- 数字螺距规
- 锂电池 (4200~6000mAh 44.4V 12S Li-Po) 宽高尺寸限制在 70x75mm 以内。
- 无刷马达 (4525/4530 12S 500KV~560KV 6.0mm)
- 无刷电调 (160A~300A)
- 倾斜盘舵机 x 3 (标准型 40mm 宽)
- 锁尾舵机 (标准型 40mm 宽)
- 无副翼陀螺系统

- Transmitter (6-channel or more, helicopter system)
- Receiver (6-channel or more)
- Digital Pitch Gauge
- Li-Po Battery (4200~6000mAh 44.4V 12S Li-Po) With the size within 70x75mm.
- Brushless Motor (4525/4530 12S 500KV~560KV 6.0mm)
- Brushless ESC (160A~300A)
- Swashplate Servos x 3 (Standard 40mm width)
- Locked Rudder Servo (Standard 40mm width)
- 3-Axis Gyro System

自备工具 ADDITIONAL TOOLS REQUIRED FOR ASSEMBLY

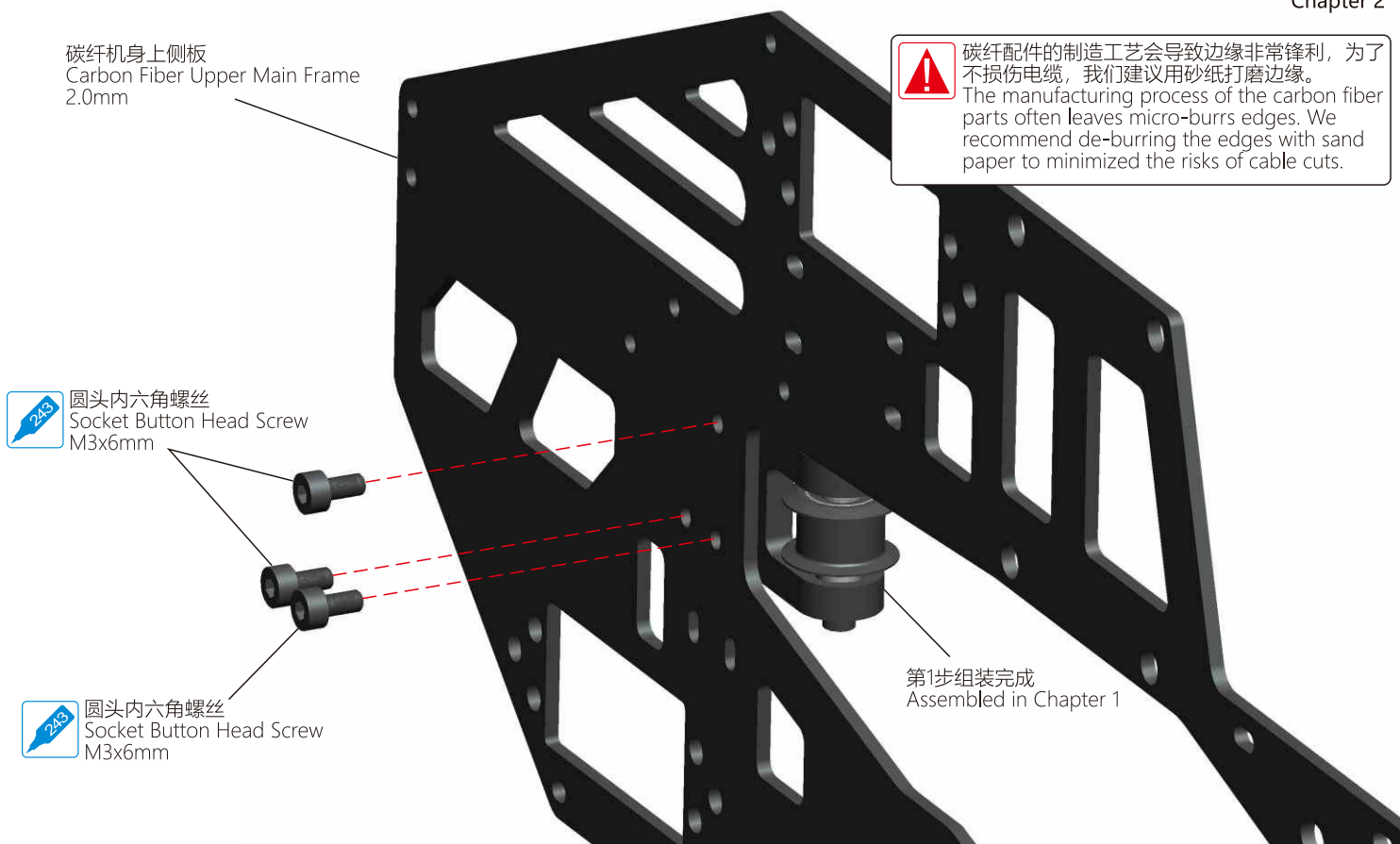
- | | |
|---|--|
| <ul style="list-style-type: none"> ● 内六角螺丝刀 (1.5mm/2.0mm/2.5mm/5.0mm) ● 内六角套筒 (5.5mm/7.0mm) ● 243 螺丝胶 ● 648 轴承胶 ● Grease 润滑油 ● CA 瞬间胶
 ● Hexagon Screw Driver (1.5mm/2.0mm/2.5mm/5.0mm) ● Hex Fork Wrench (5.5mm/7.0mm) ● 243 Thread Lock ● 648 Anaerobics Retain ● Grease ● CA Glue | <ul style="list-style-type: none"> ● 剪刀 ● 刀子 ● 斜口钳 ● 尖嘴钳 ● 砂纸 ● 焊接工具
 ● Scissors ● Cutter Knife ● Diagonal Cutting Pliers ● Needle Nose Pliers ● Sand Paper ● Soldering Equipment |
|---|--|

NFT7-A01

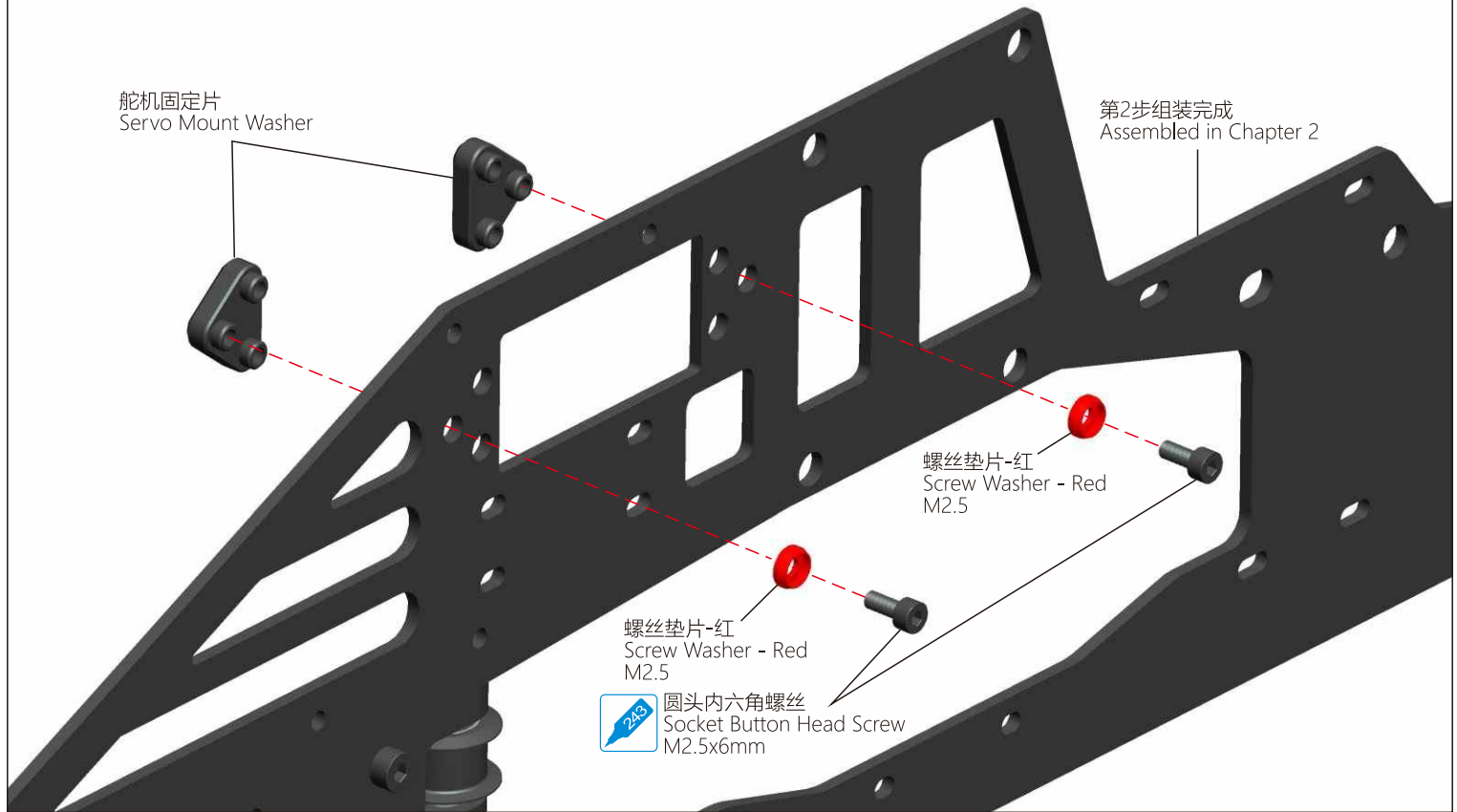
前压带轮组-右
Front Belt Idler-Right
Chapter 1

NFT7-B01

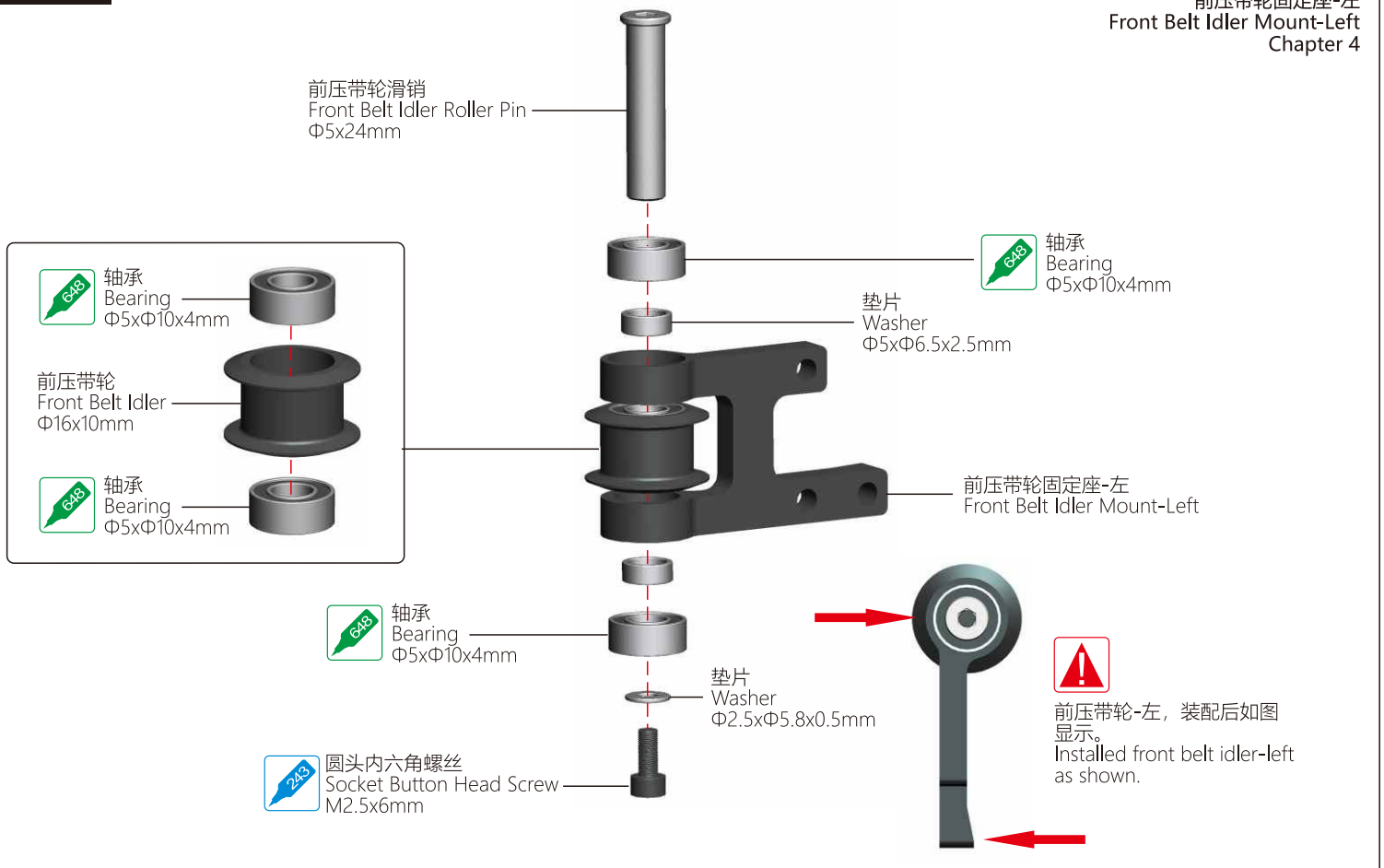
NFT7-A01

碳纤维机身上侧板
Carbon Fiber Upper Main Frame
Chapter 2

NFT7-A03

舵机固定片
Servo Mount Washer
Chapter 3

NFT7-A02

前压带轮固定座-左
Front Belt Idler Mount-Left
Chapter 4

NFT7-B01

NFT7-A02

碳纤维机身上侧板
Carbon Fiber Upper Main Frame
Chapter 5碳纤维机身上侧板
Carbon Fiber Upper Main Frame
2.0mm圆头内六角螺丝
Socket Button Head Screw
M3x6mm圆头内六角螺丝
Socket Button Head Screw
M3x6mm第4步组装完成
Assembled in Chapter 4

碳纤维配件的制造工艺会导致边缘非常锋利，为了不损伤电缆，我们建议用砂纸打磨边缘。
The manufacturing process of the carbon fiber parts often leaves micro-burrs edges. We recommend de-burring the edges with sand paper to minimized the risks of cable cuts.

NFT7-A03

舵机固定片
Servo Mount Washer
Chapter 6圆头内六角螺丝
Socket Button Head Screw
M2.5x6mm螺丝垫片-红
Screw Washer - Red
M2.5圆头内六角螺丝
Socket Button Head Screw
M2.5x6mm第5步组装完成
Assembled in Chapter 5舵机固定片
Servo Mount Washer

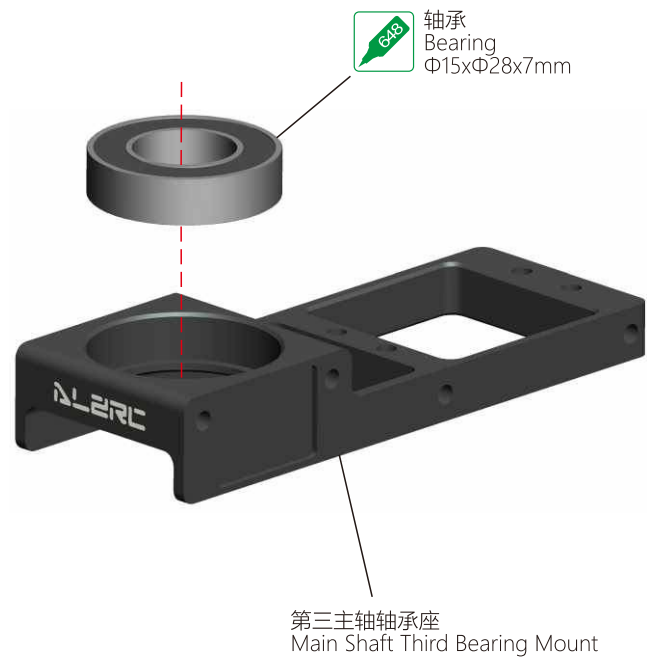
NFT7-A04

主轴固定座
Main Shaft Bearing Block
Chapter 7



NFT7-A05

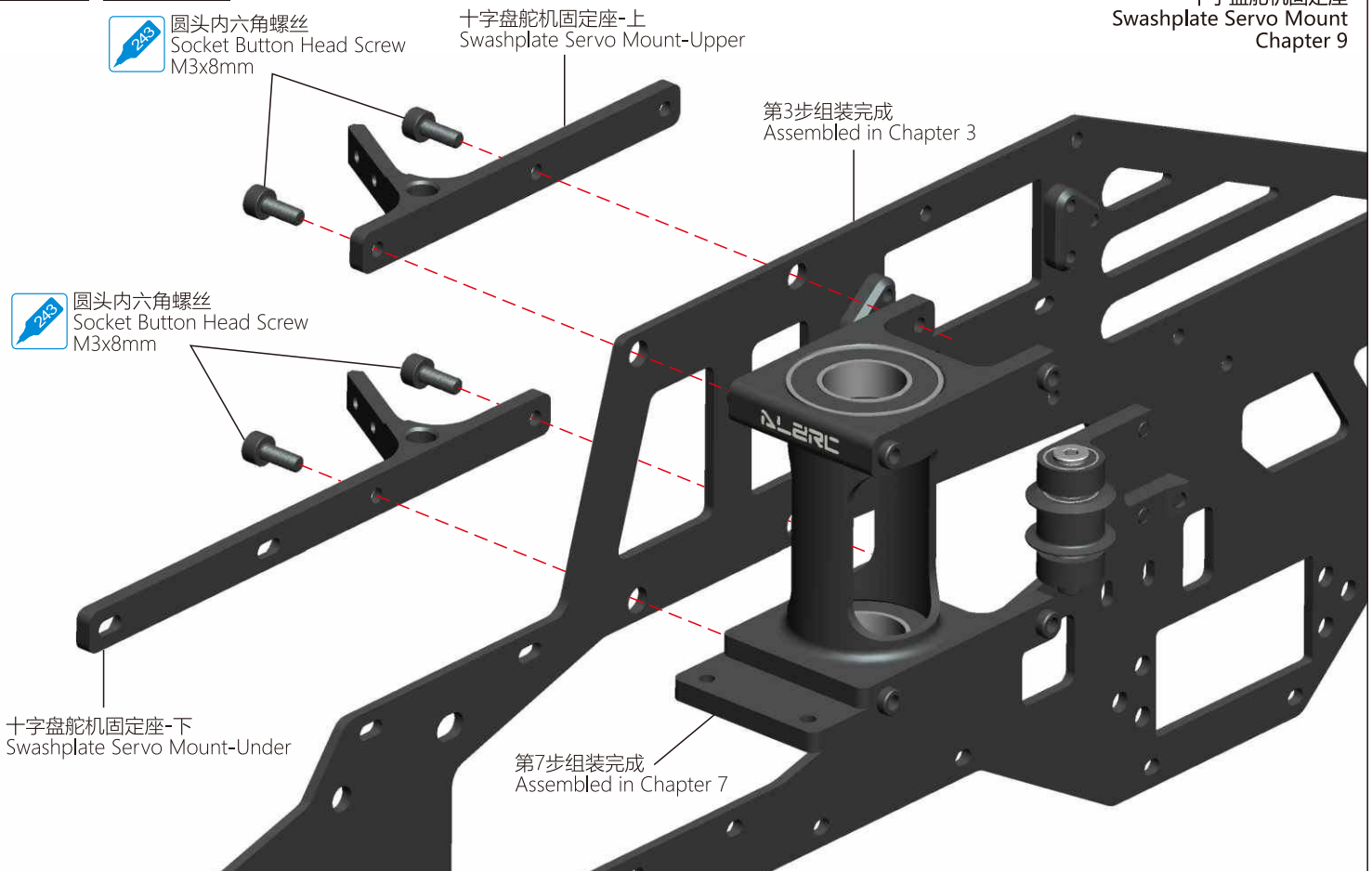
第三主轴轴承座
Main Shaft Third Bearing Mount
Chapter 8



NFT7-A04

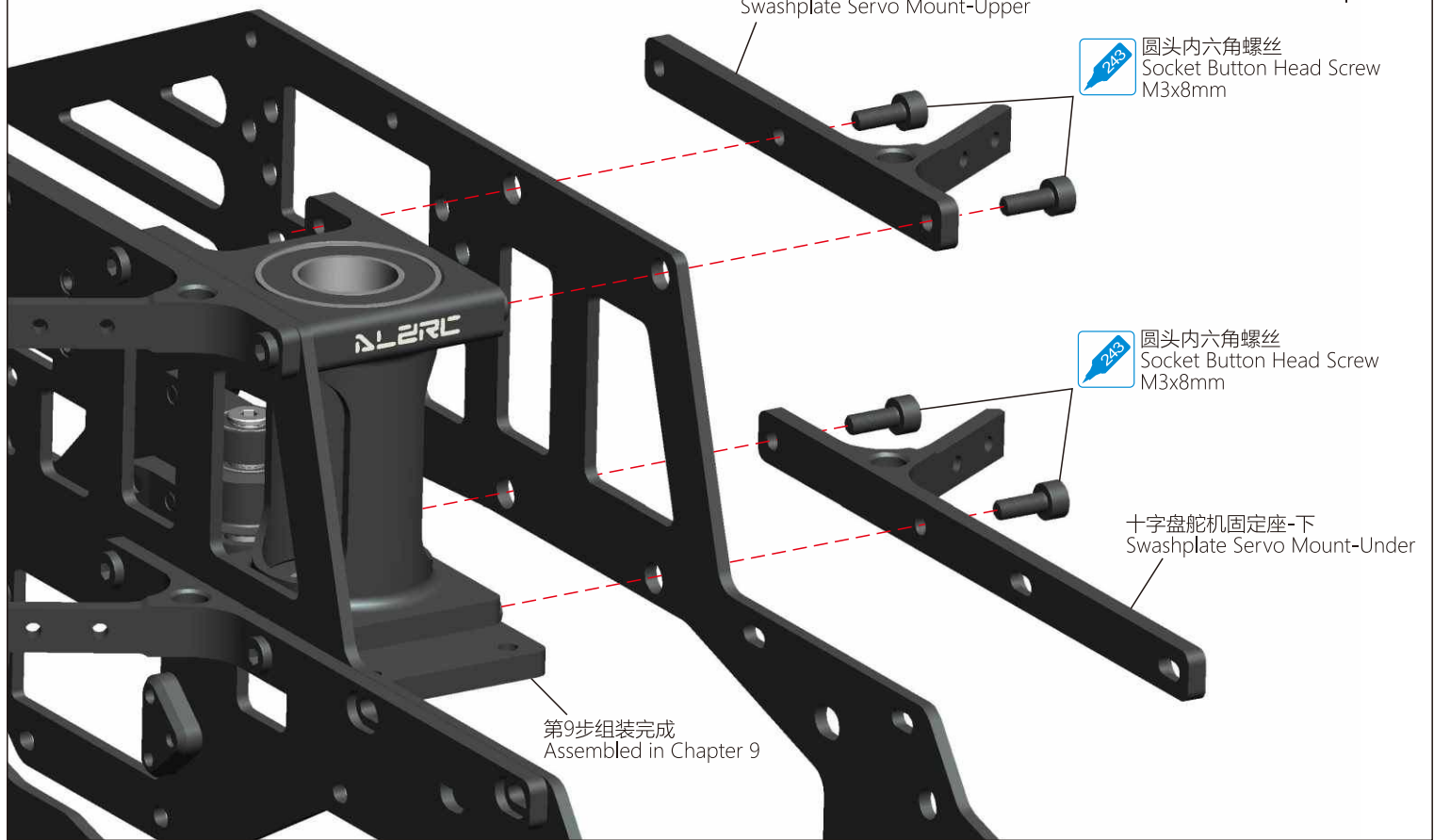
NFT7-A06

十字盘舵机固定座
Swashplate Servo Mount
Chapter 9

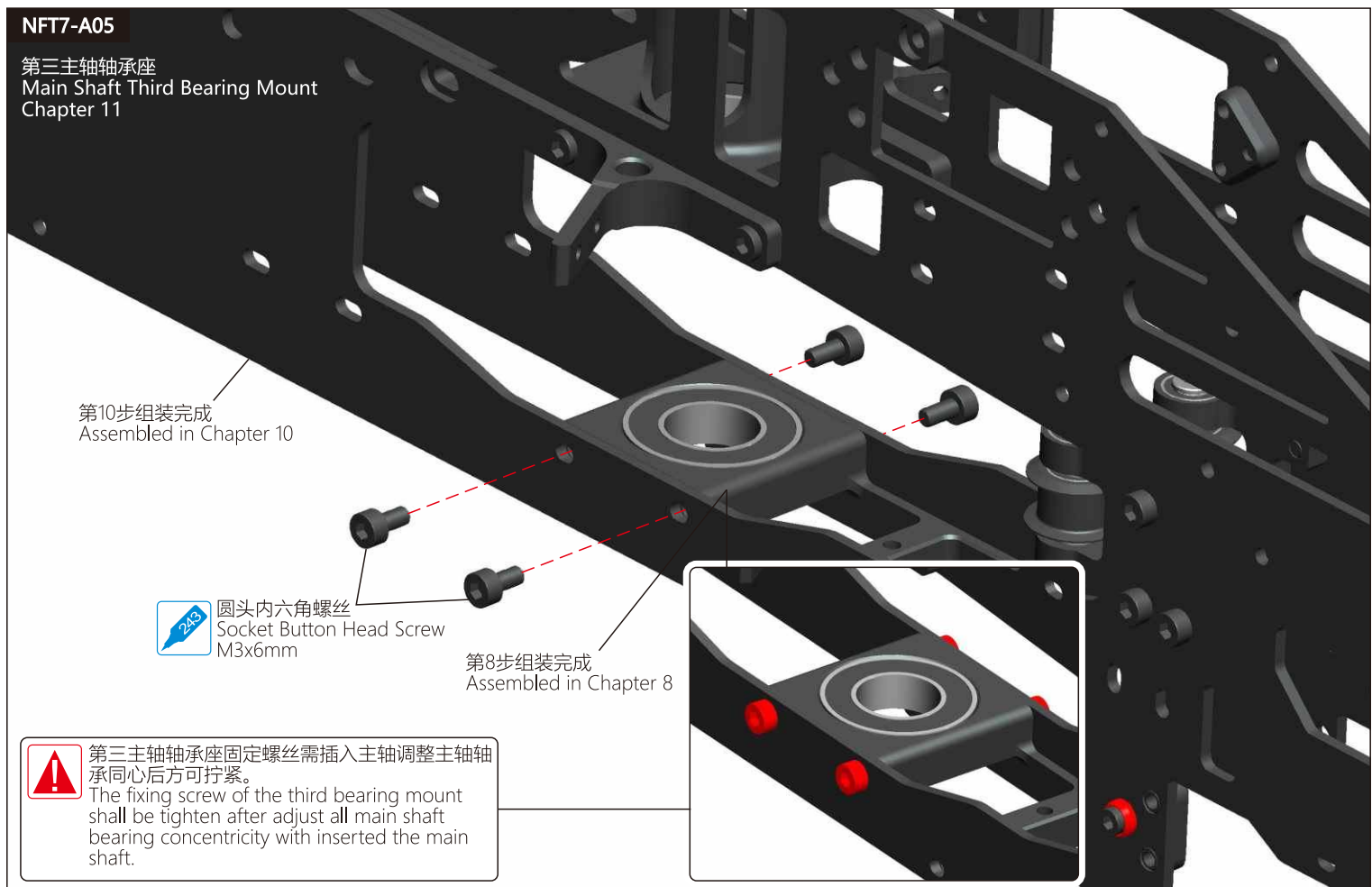


NFT7-A04

NFT7-A06

十字盘舵机固定座
Swashplate Servo Mount
Chapter 10

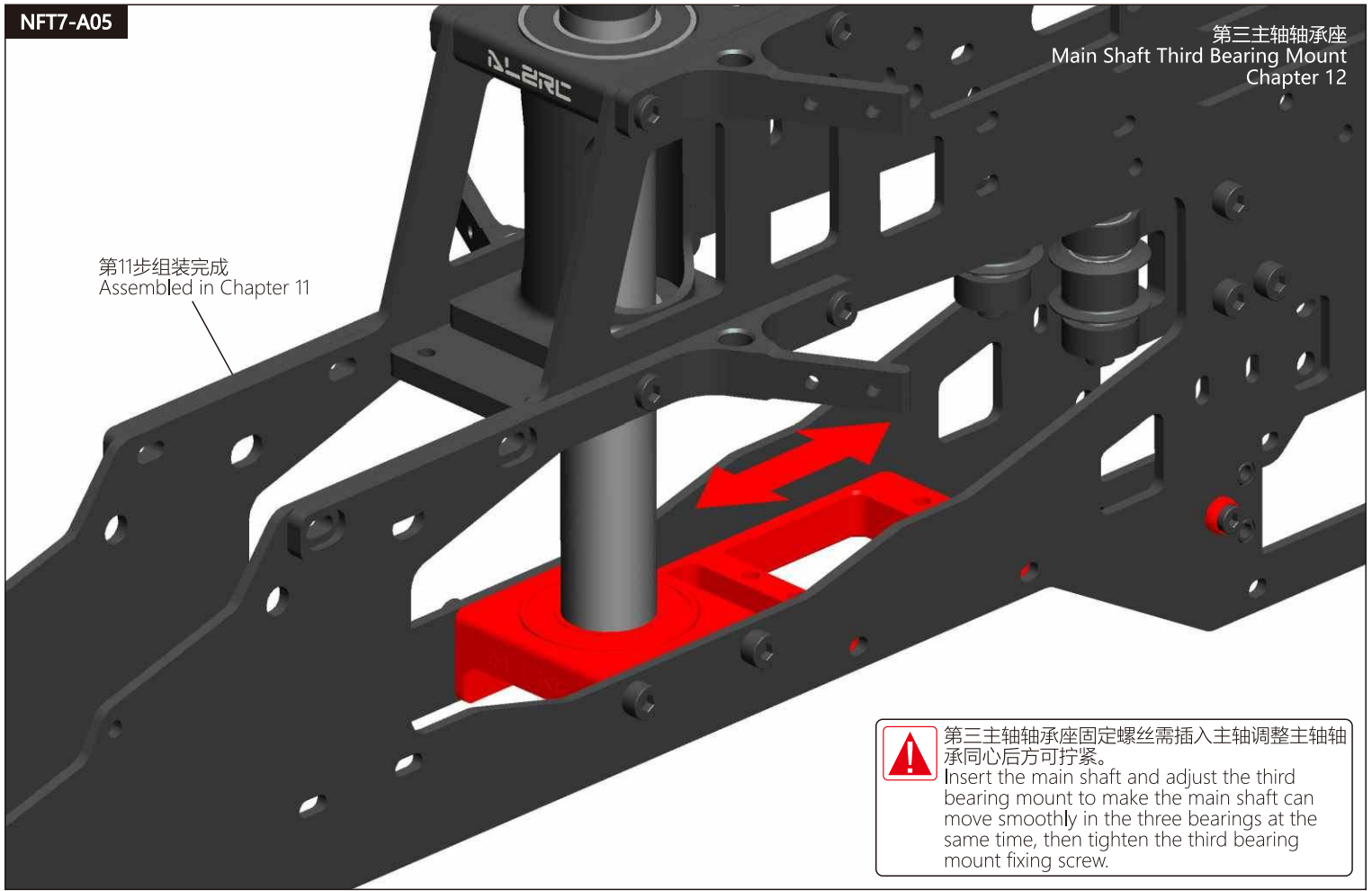
NFT7-A05


第三主轴轴承座
Main Shaft Third Bearing Mount
Chapter 11

NFT7-A05

第三主轴轴承座
Main Shaft Third Bearing Mount
Chapter 12

第11步组装完成
Assembled in Chapter 11

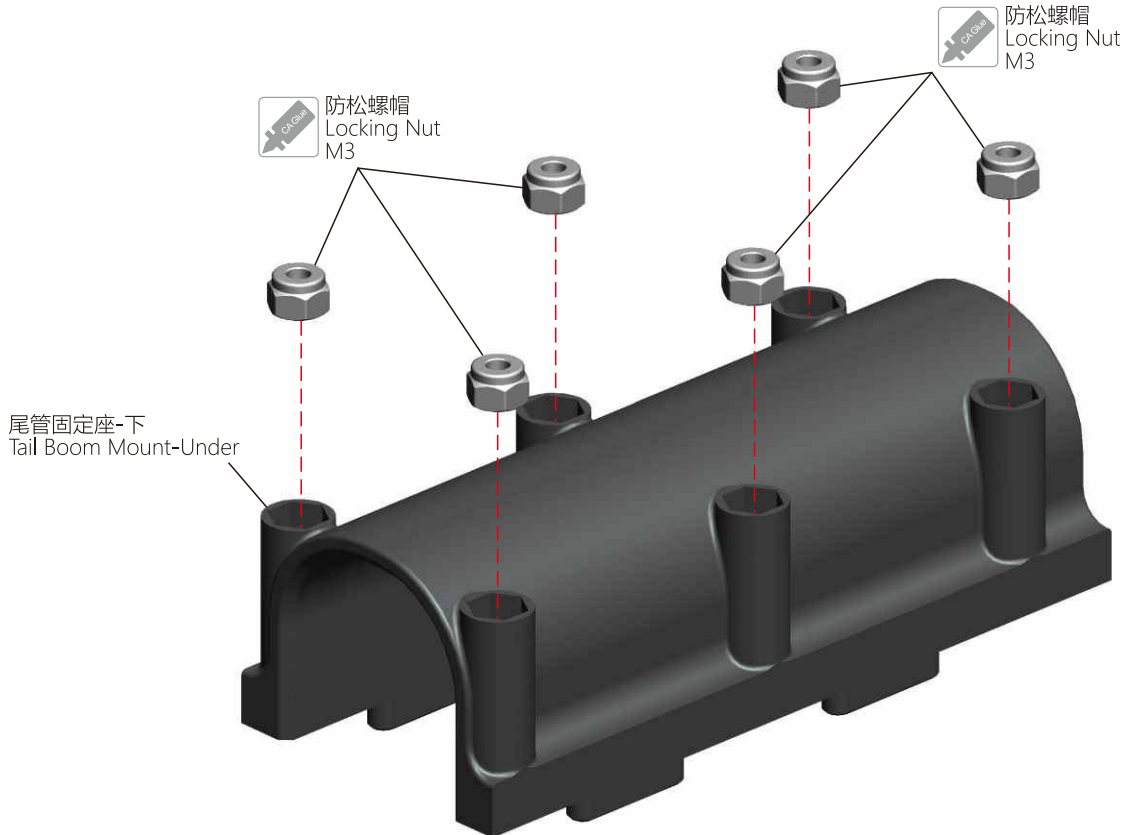


 第三主轴轴承座固定螺丝需插入主轴调整主轴轴承同心后方可拧紧。
Insert the main shaft and adjust the third bearing mount to make the main shaft can move smoothly in the three bearings at the same time, then tighten the third bearing mount fixing screw.

NFT7-C02

NFT7-C03

尾管固定座-下
Tail Boom Mount-Under
Chapter 13



尾管固定座-下
Tail Boom Mount-Under

 防松螺帽
Locking Nut
M3

 防松螺帽
Locking Nut
M3

 建议：M3自锁螺母可用适量瞬间胶辅助固定。
Tips: M3 self-locking nut can be fixed with an appropriate amount of CA glue.

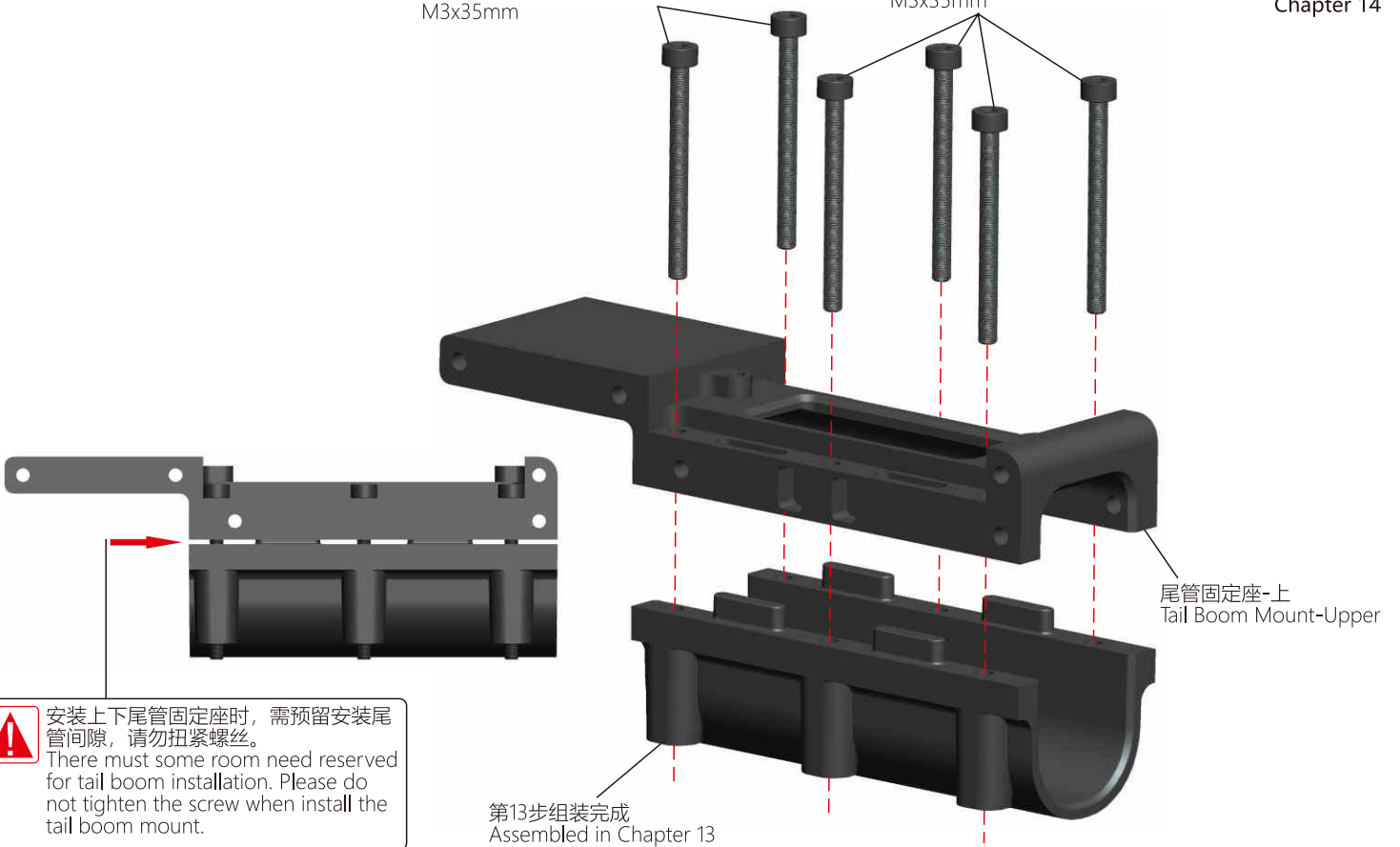
NFT7-C01

NFT7-C03

圆头内六角螺丝
Socket Button Head Screw
M3x35mm

圆头内六角螺丝
Socket Button Head Screw
M3x35mm

尾管固定座-上
Tail Boom Mount-Upper
Chapter 14



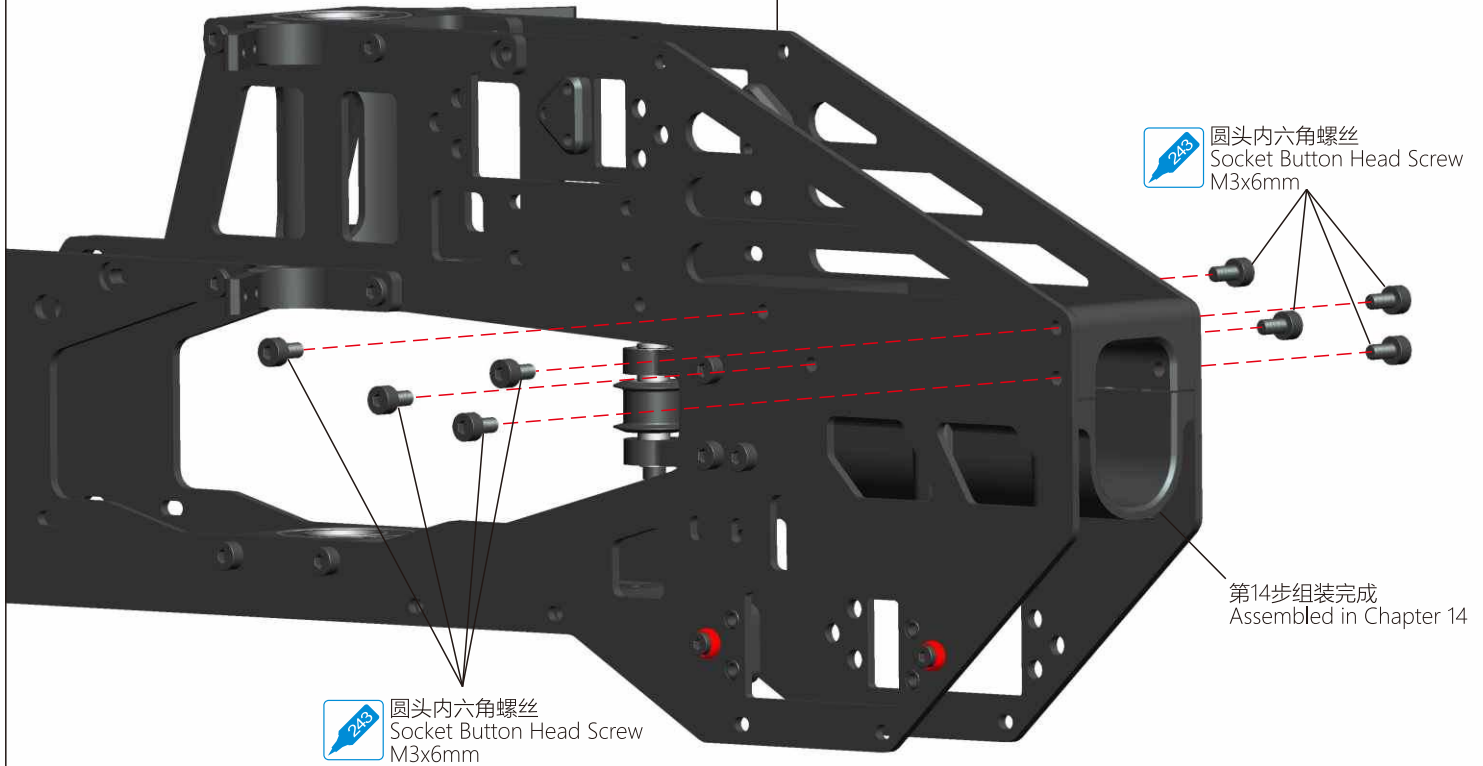
安装上下尾管固定座时，需预留安装尾管间隙，请勿扭紧螺丝。
There must some room need reserved for tail boom installation. Please do not tighten the screw when install the tail boom mount.

第13步组装完成
Assembled in Chapter 13

NFT7-C01

第12步组装完成
Assembled in Chapter 12

尾管固定座
Tail Boom Mount
Chapter 15

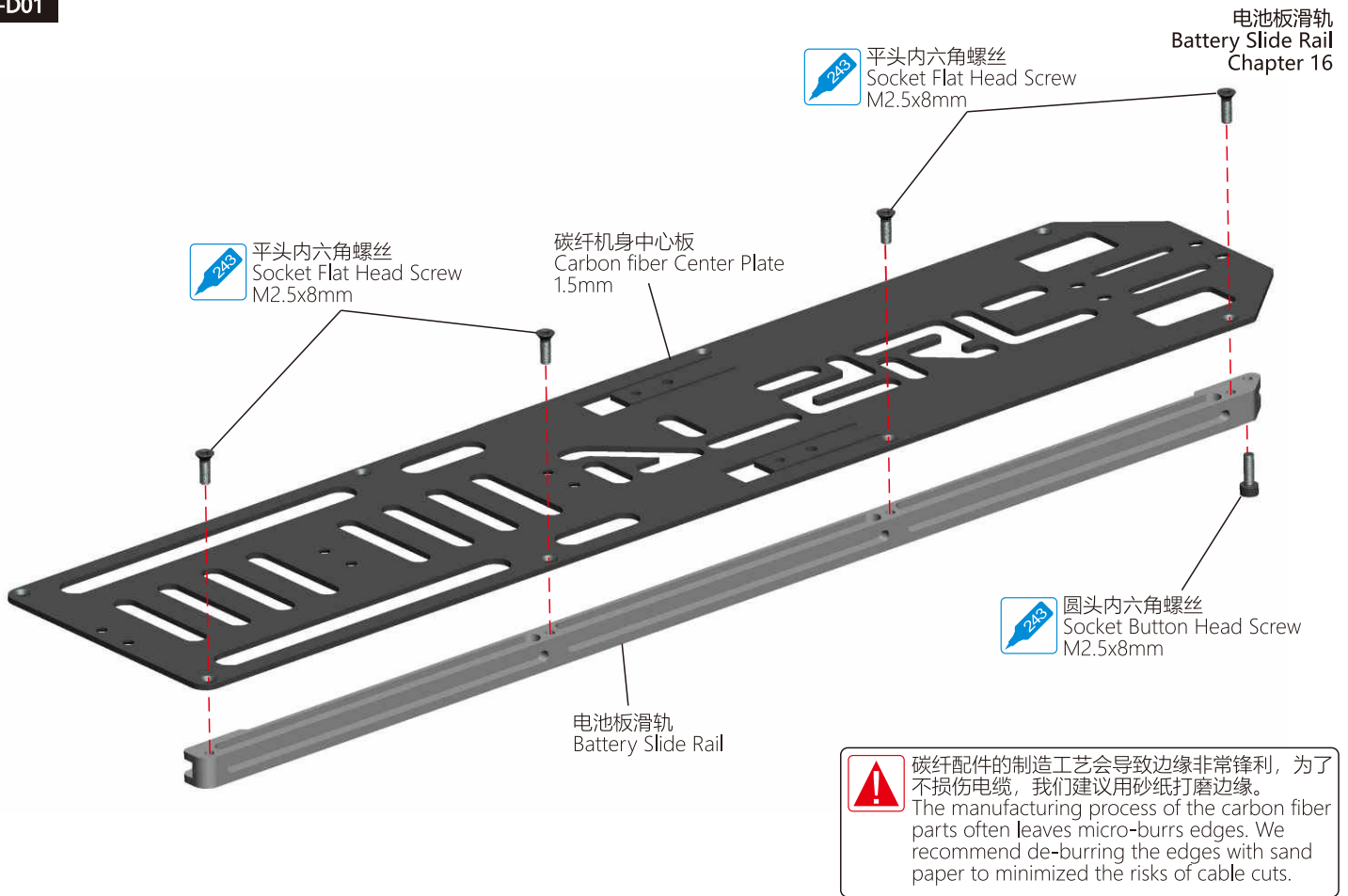


圆头内六角螺丝
Socket Button Head Screw
M3x6mm

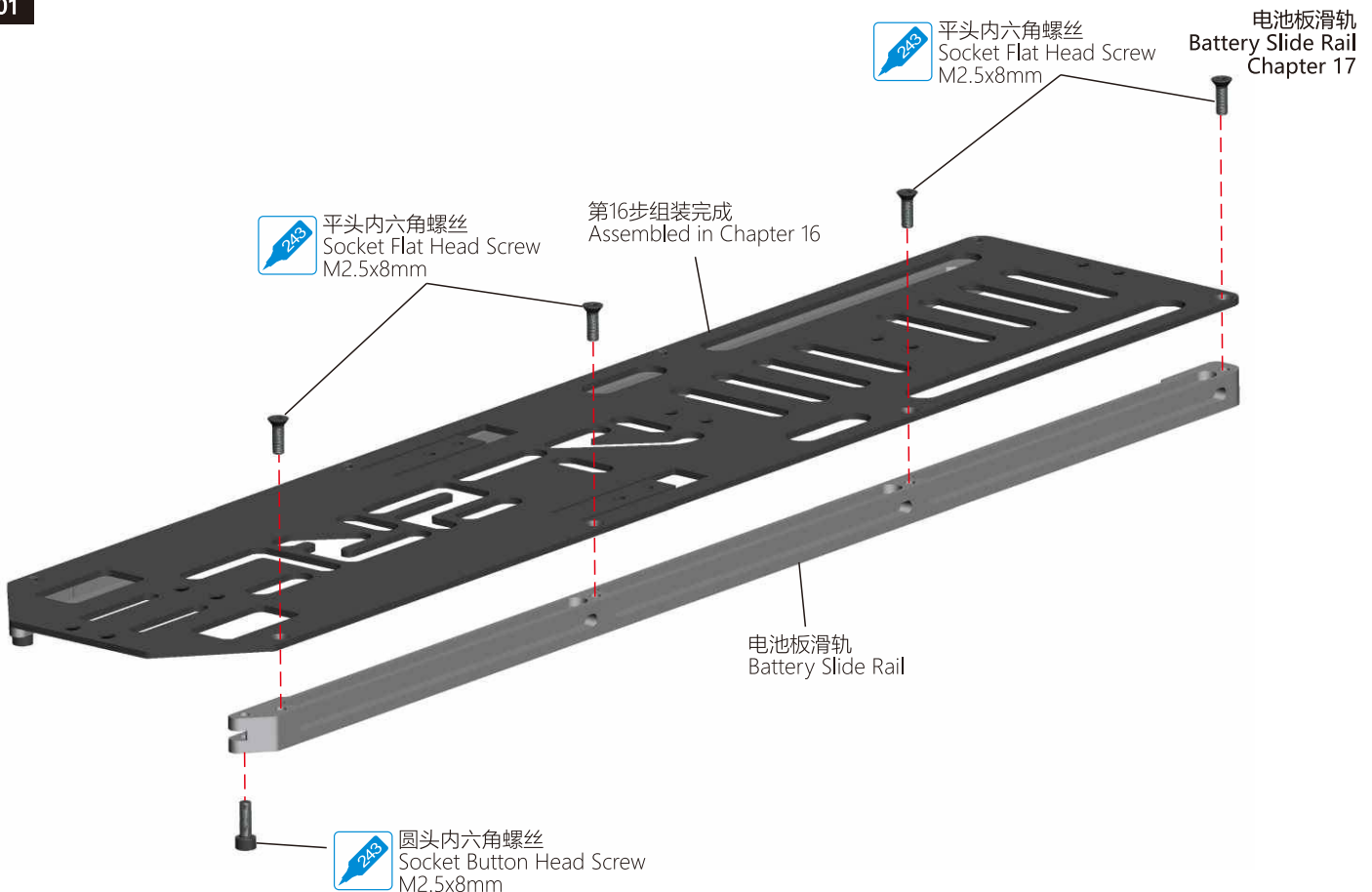
圆头内六角螺丝
Socket Button Head Screw
M3x6mm

第14步组装完成
Assembled in Chapter 14

NFT7-D01

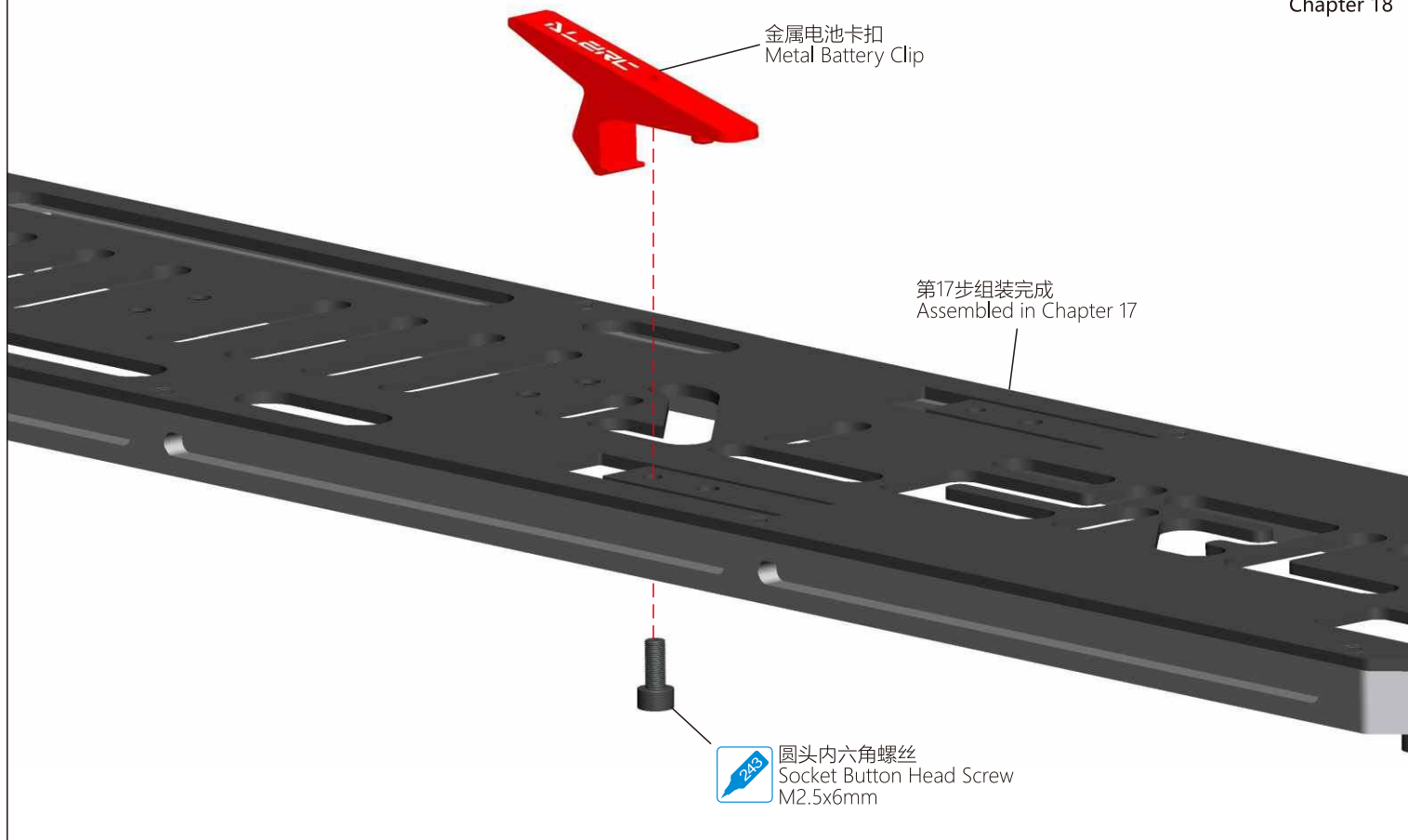


NFT7-D01



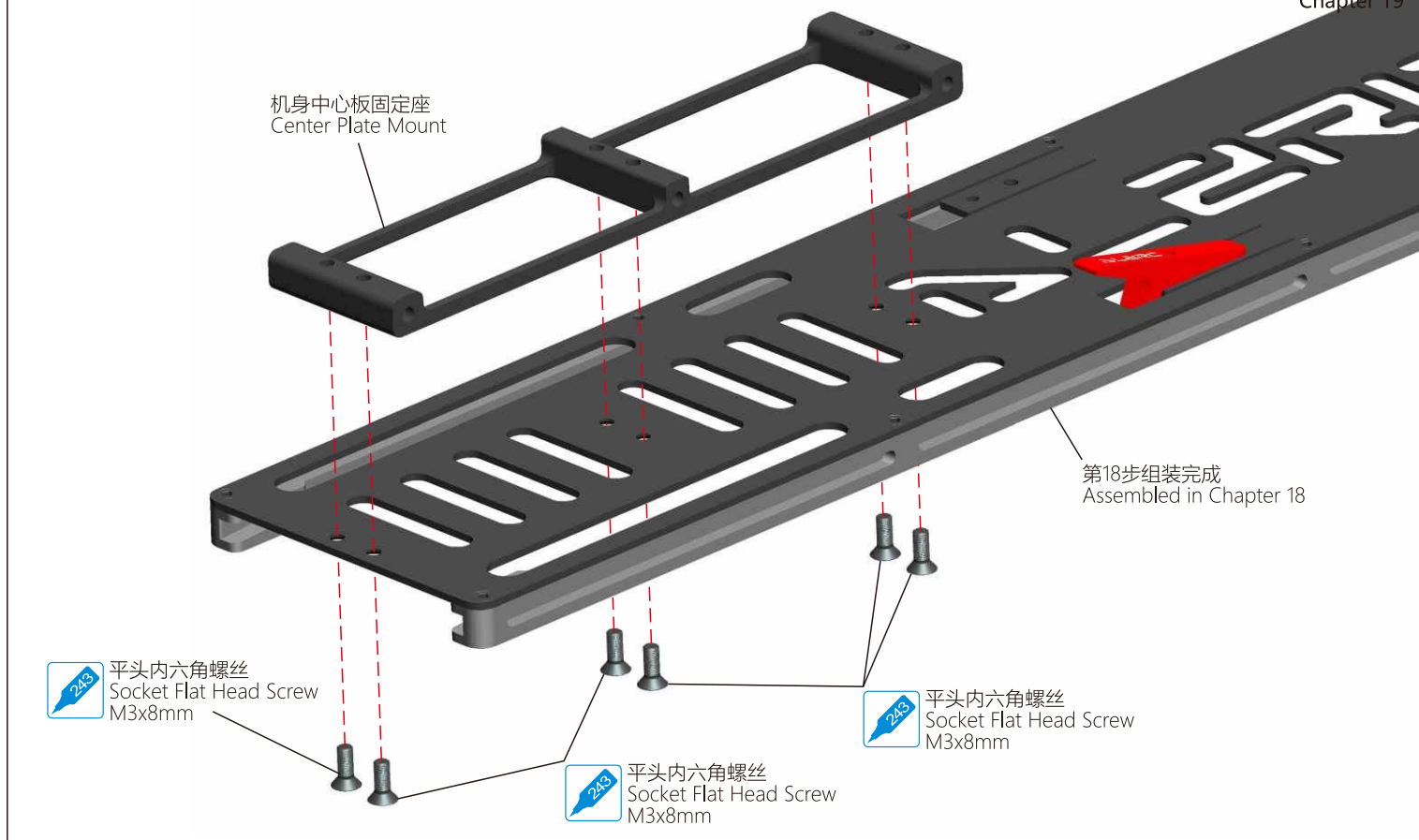
NFT7-D02

金属电池卡扣
Metal Battery Clip
Chapter 18



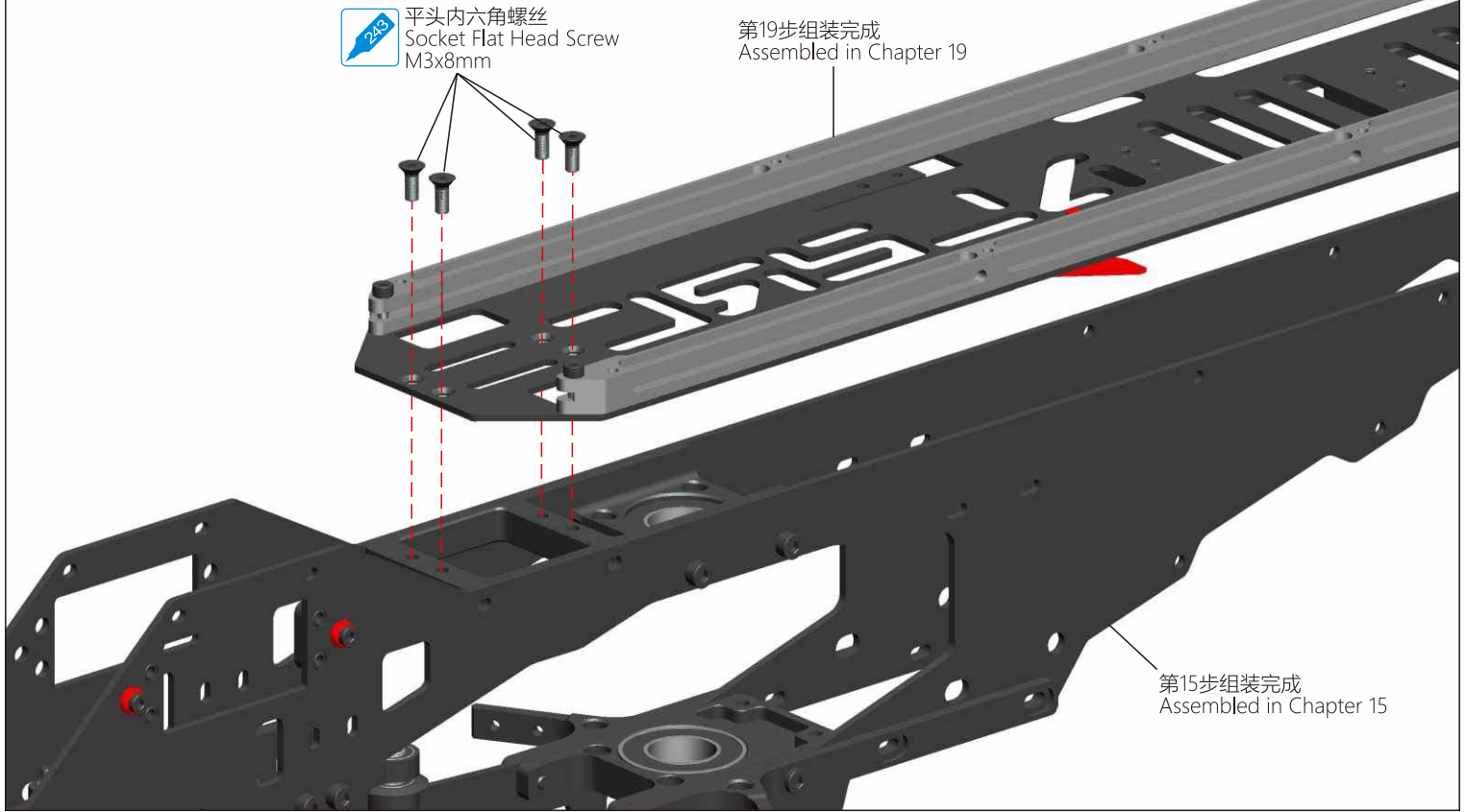
NFT7-D03

机身中心板固定座
Center Plate Mount
Chapter 19



NFT7-A05

机身中心板总成
Main Shaft Third Bearing Mount
Chapter 20



NFT7-E01 | NFT7-E02

碳纤维机身下侧板-前-左
Carbon Fiber Under Main Frame - Front - Left
Chapter 21

碳纤维机身下侧板-前
Carbon Fiber Under Main
Frame - Front
2.0mm

圆头内六角螺丝
Socket Button Head Screw
M3x6mm

机头罩固定柱
Canopy Mounting Bolt
15mm



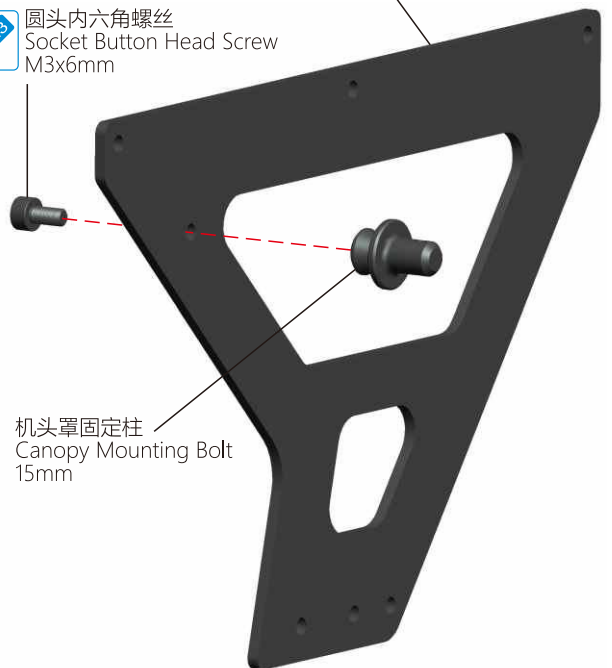
NFT7-E01 | NFT7-E02

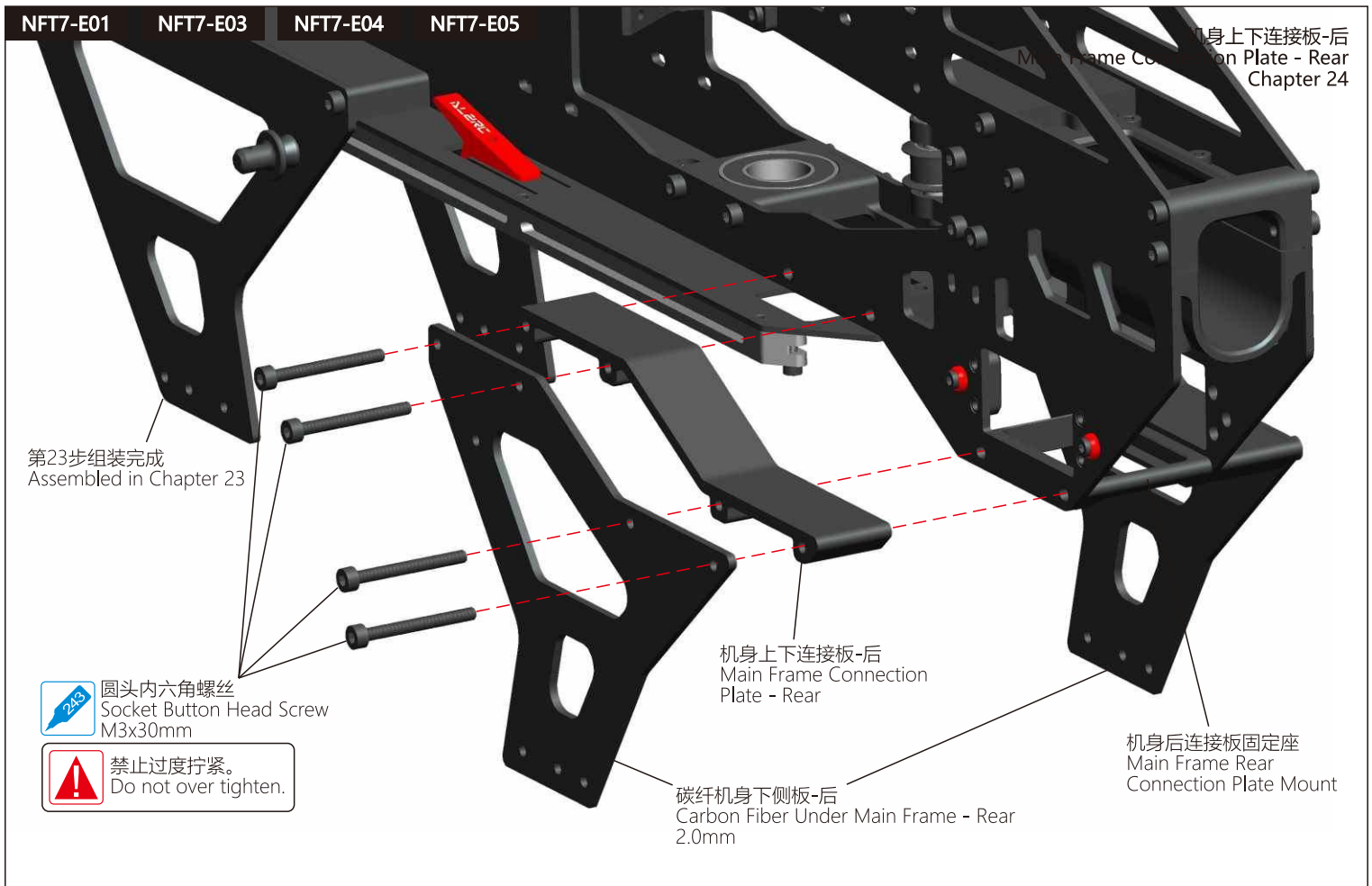
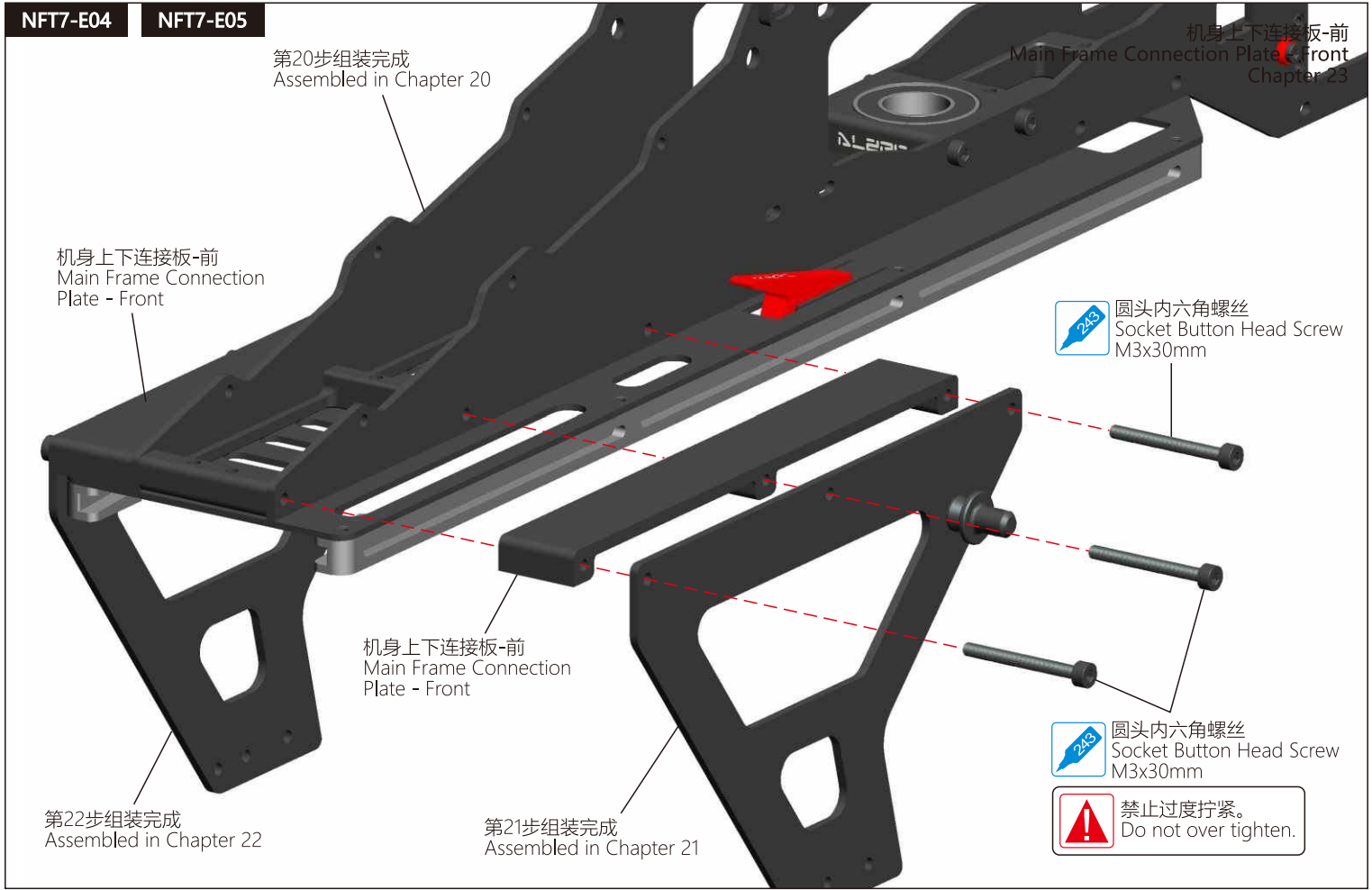
碳纤维机身下侧板-前-右
Carbon Fiber Under Main Frame - Front - Right
Chapter 22

碳纤维机身下侧板-前
Carbon Fiber Under Main
Frame - Front
2.0mm

圆头内六角螺丝
Socket Button Head Screw
M3x6mm

机头罩固定柱
Canopy Mounting Bolt
15mm





NFT7-F01

NFT7-F03

脚架
Landing Skid
Chapter 25

圆头内六角螺丝
Socket Button Head
Screw
M3x8mm

第24步组装完成
Assembled in Chapter 24

圆头内六角螺丝
Socket Button Head Screw
M3x8mm

脚架
Landing Skid

脚架
Landing Skid



螺丝锁入塑胶零件请勿过度拧紧。
Do not over-tighten the screws
into the plastic parts.

NFT7-F02

NFT7-F03

脚架铝管
Aluminum Skid Pipe
Chapter 26

第25步组装完成
Assembled in Chapter 25

脚架铝管
Aluminum Skid Pipe

止泄螺丝
Set Screw
M3x3mm

止泄螺丝
Set Screw
M3x3mm

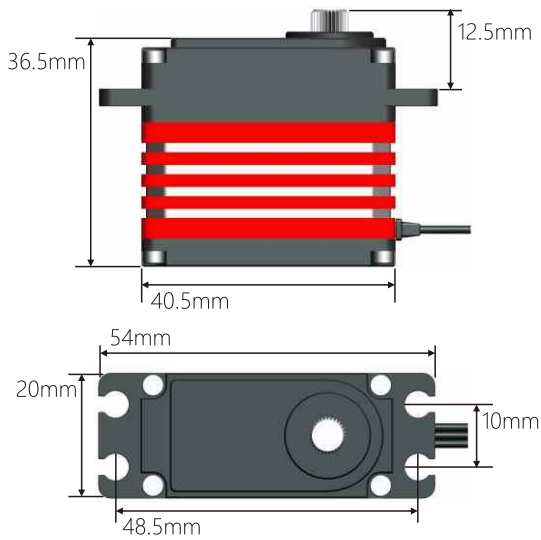
脚架铝管塞
Aluminum Skid Pipe End Cap

脚架铝管塞
Aluminum Skid Pipe End Cap

脚架铝管
Aluminum Skid Pipe

约32mm
Approx 32mm

NFT7-G01

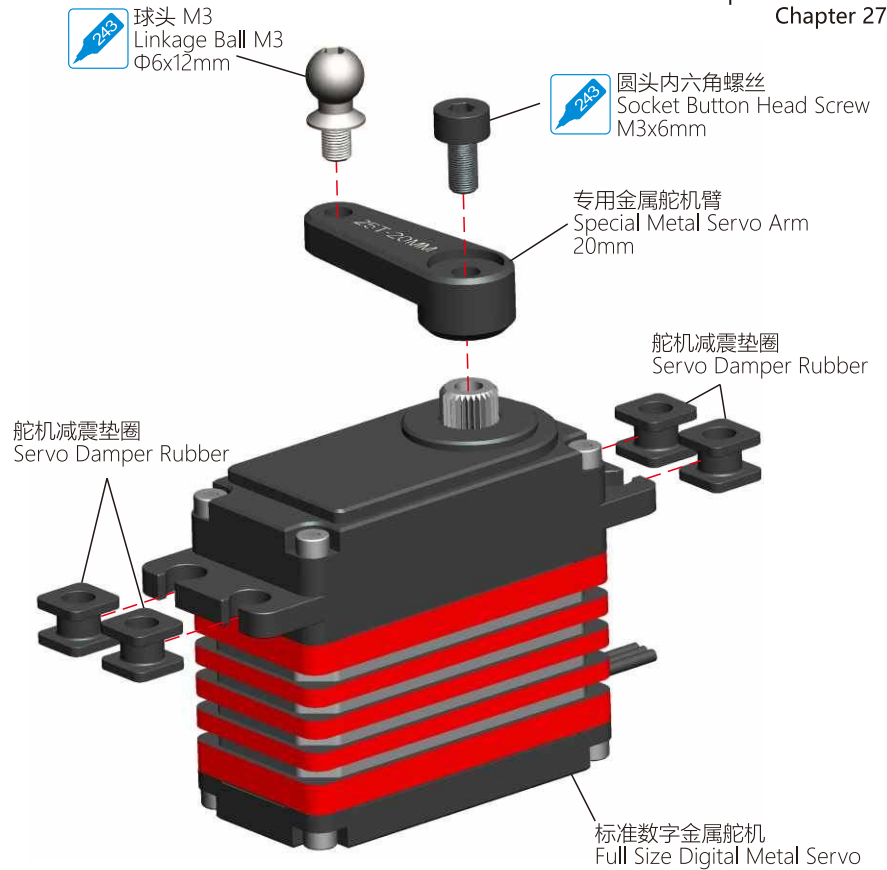


舵机尺寸参考
Reference Size for Servo

建议使用扭力 20Kg*cm 以上、速度 0.08~0.06秒舵机。
Recommend to use above 20Kg*cm torsion and with speed of 0.08~0.06s servo.

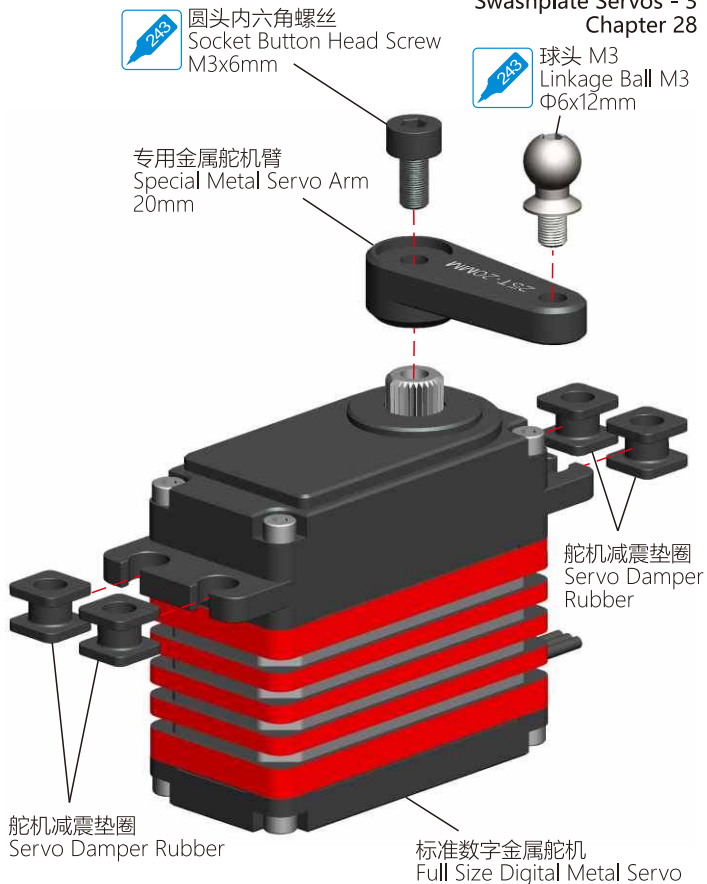
舵机臂球头与螺丝中心距约：20mm。
The distance between the central of linkage ball and servo arm screw about 20mm.

十字盘舵机 -2
Swashplate Servos - 2
Chapter 27



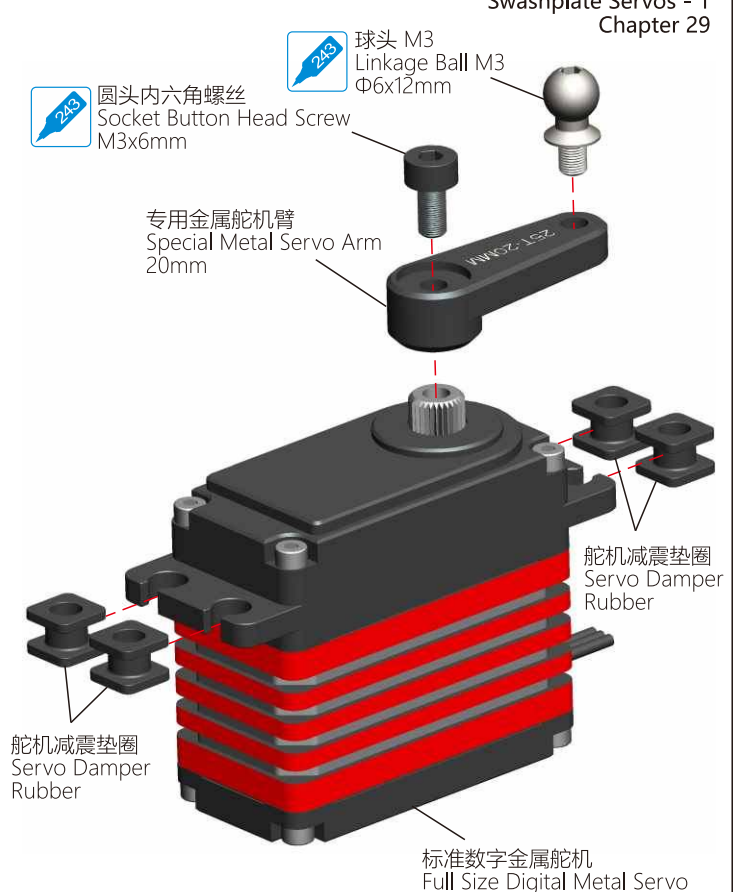
NFT7-G01

十字盘舵机 - 3
Swashplate Servos - 3
Chapter 28



NFT7-G01

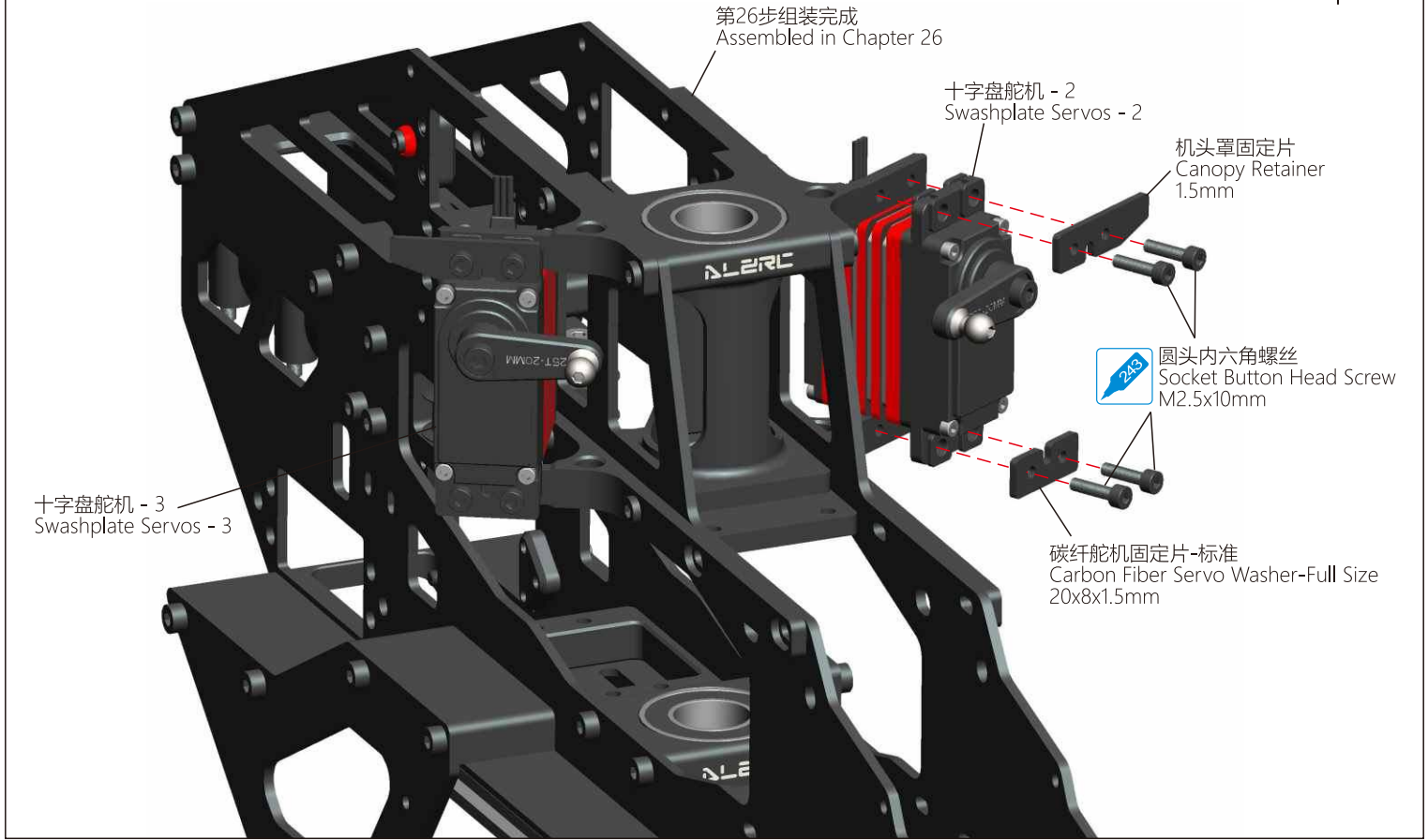
十字盘舵机 -1
Swashplate Servos - 1
Chapter 29



NFT7-G02

NFT7-G03

十字盘舵机安装
Installation of Swashplate Servos
Chapter 30

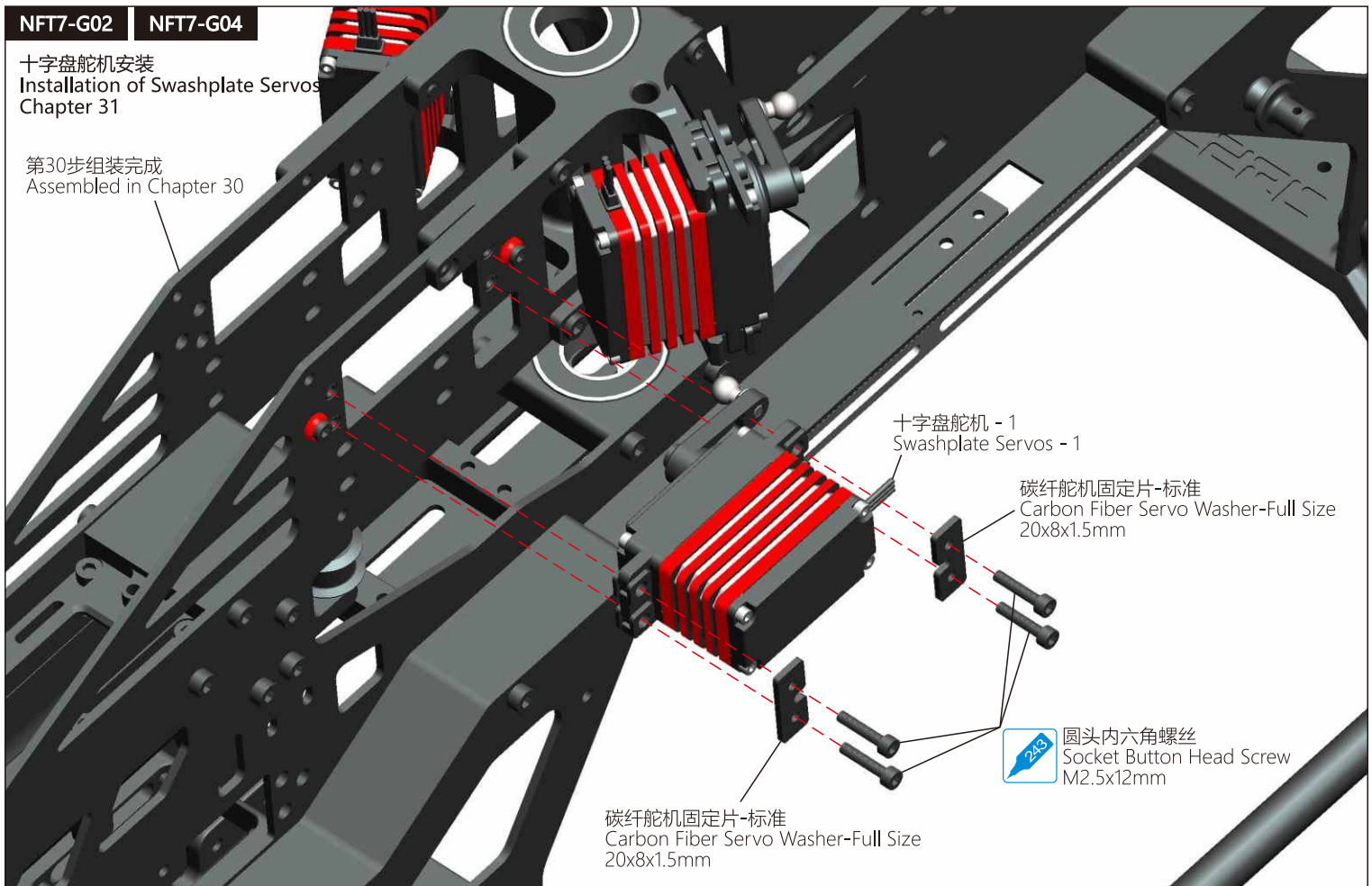


NFT7-G02

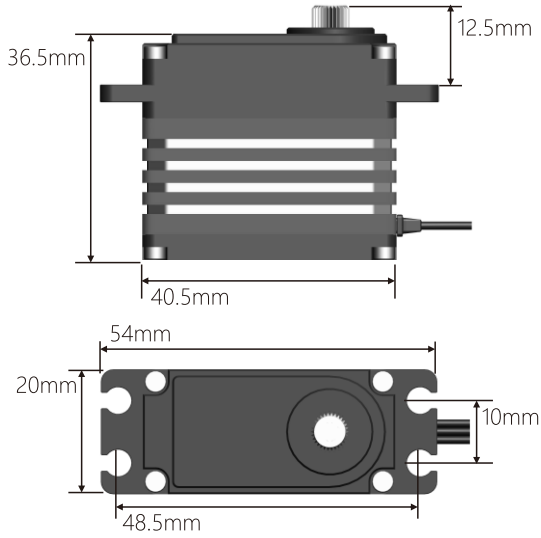
NFT7-G04

十字盘舵机安装
Installation of Swashplate Servos
Chapter 31

第30步组装完成
Assembled in Chapter 30



NFT7-G01

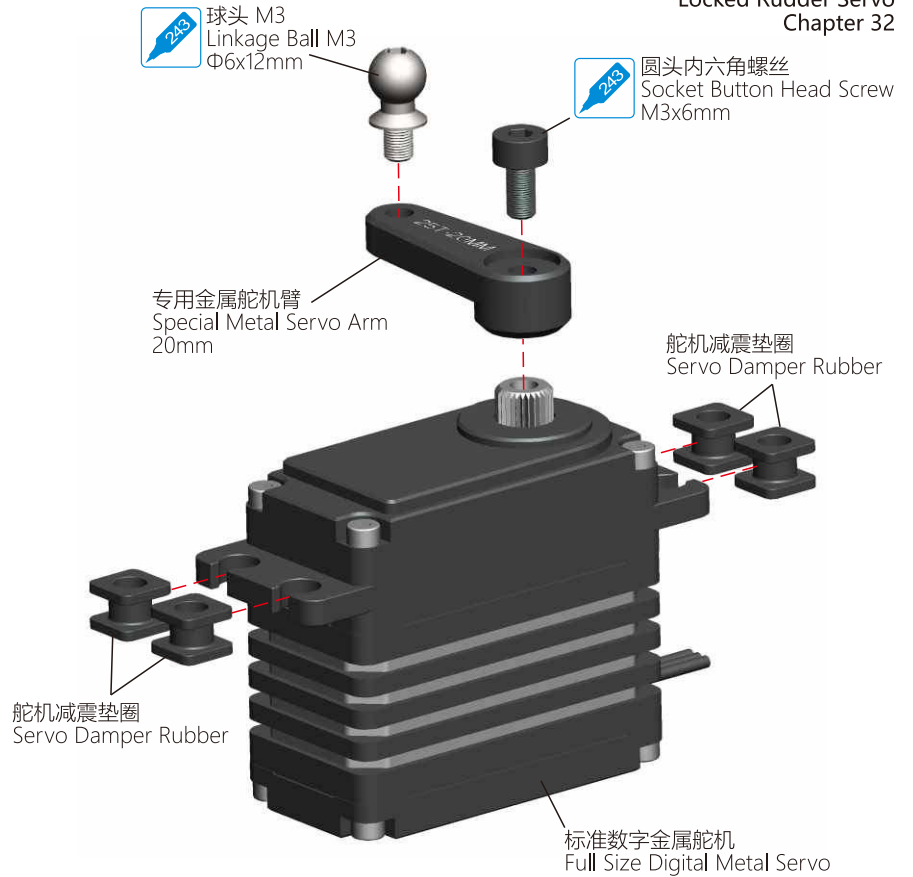


舵机尺寸参考
Reference Size for Servo

建议使用扭力 5Kg*cm 以上、速度 0.06~0.04秒舵机。
Recommend to use above 5Kg*cm
torsion and with speed of 0.06~0.04s servo.

舵机臂球头与螺丝中心距约：16~20mm。
The distance between the central of linkage ball and
servo arm screw about 16~20mm.

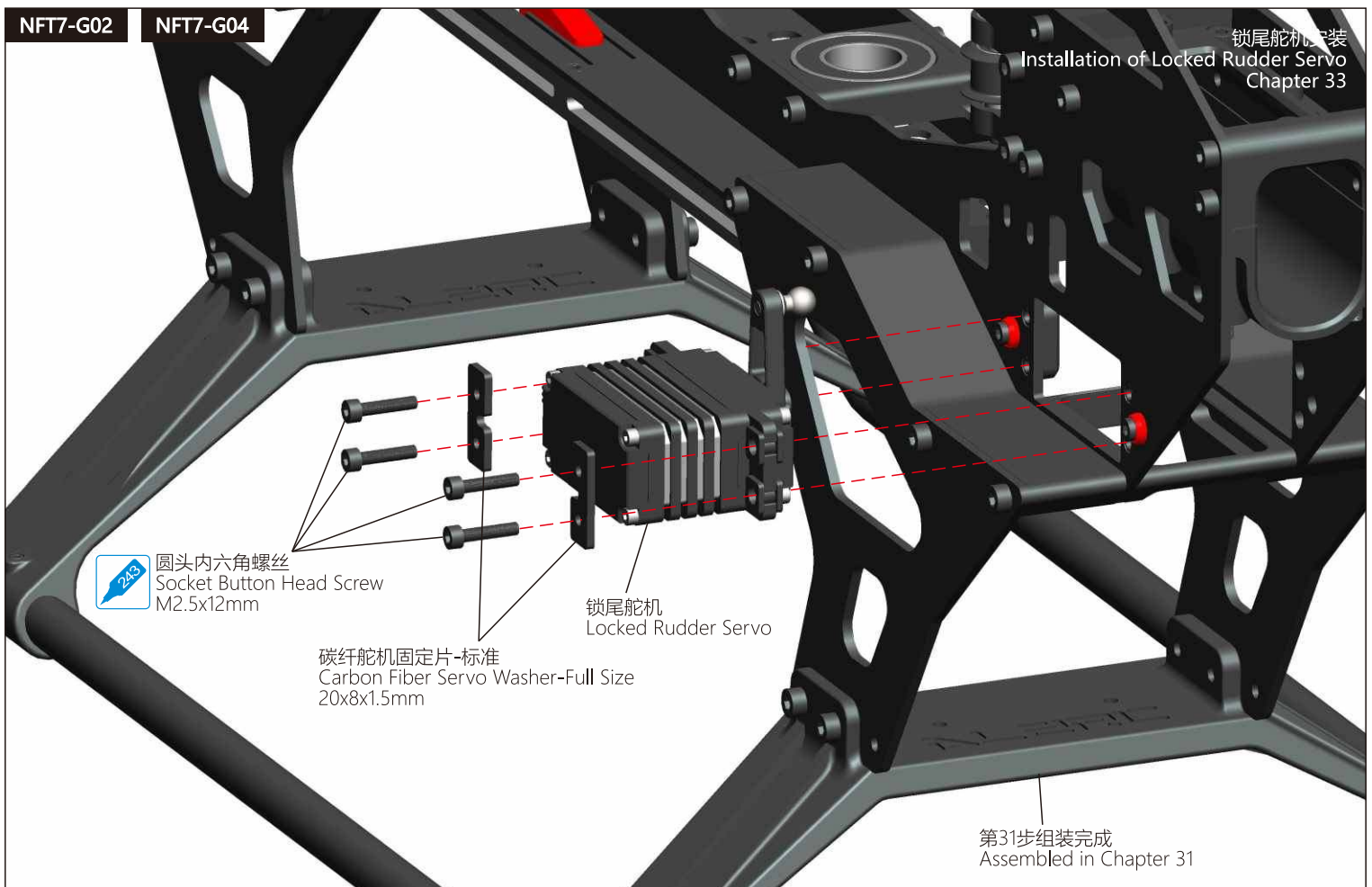
锁尾舵机
Locked Rudder Servo
Chapter 32



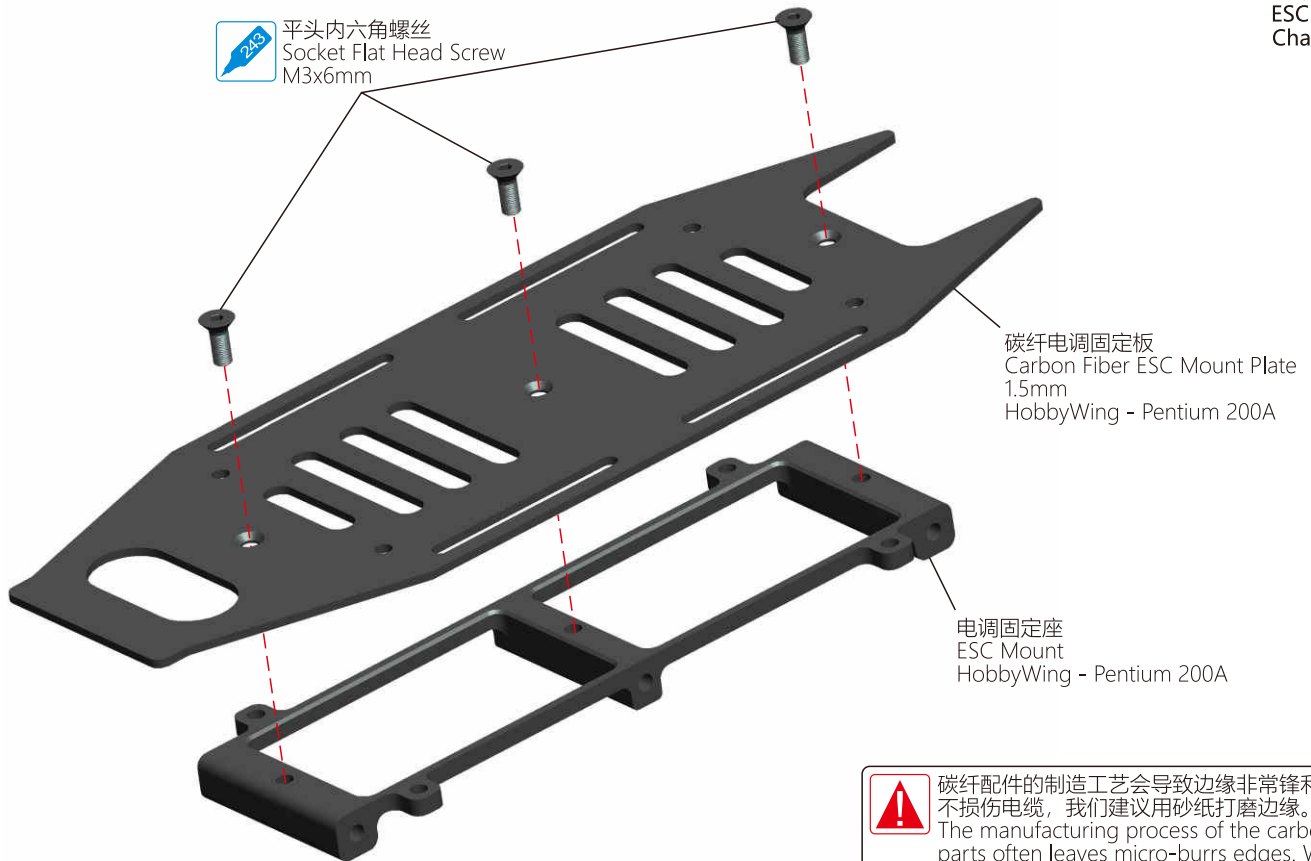
NFT7-G02

NFT7-G04

锁尾舵机安装
Installation of Locked Rudder Servo
Chapter 33

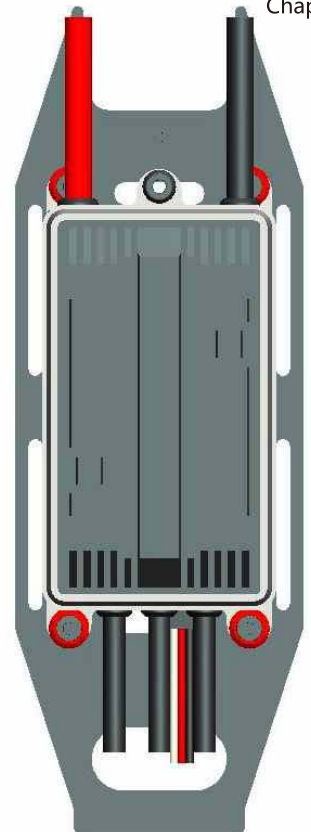
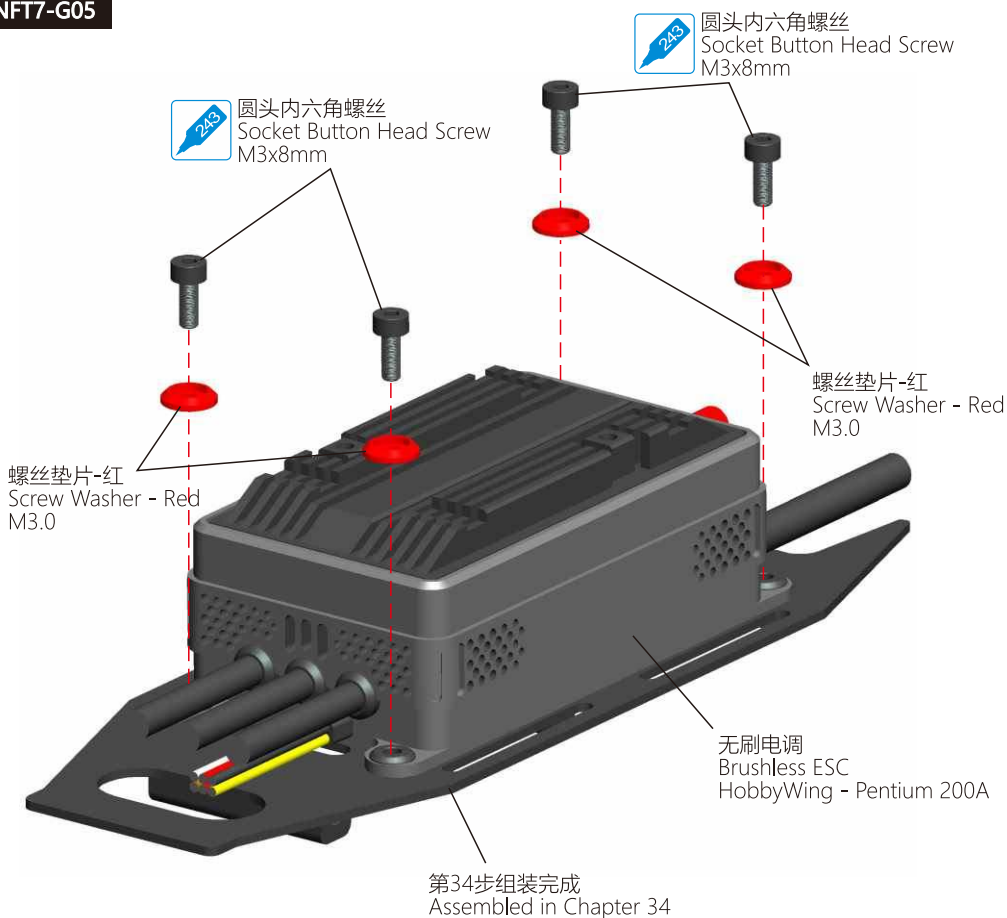


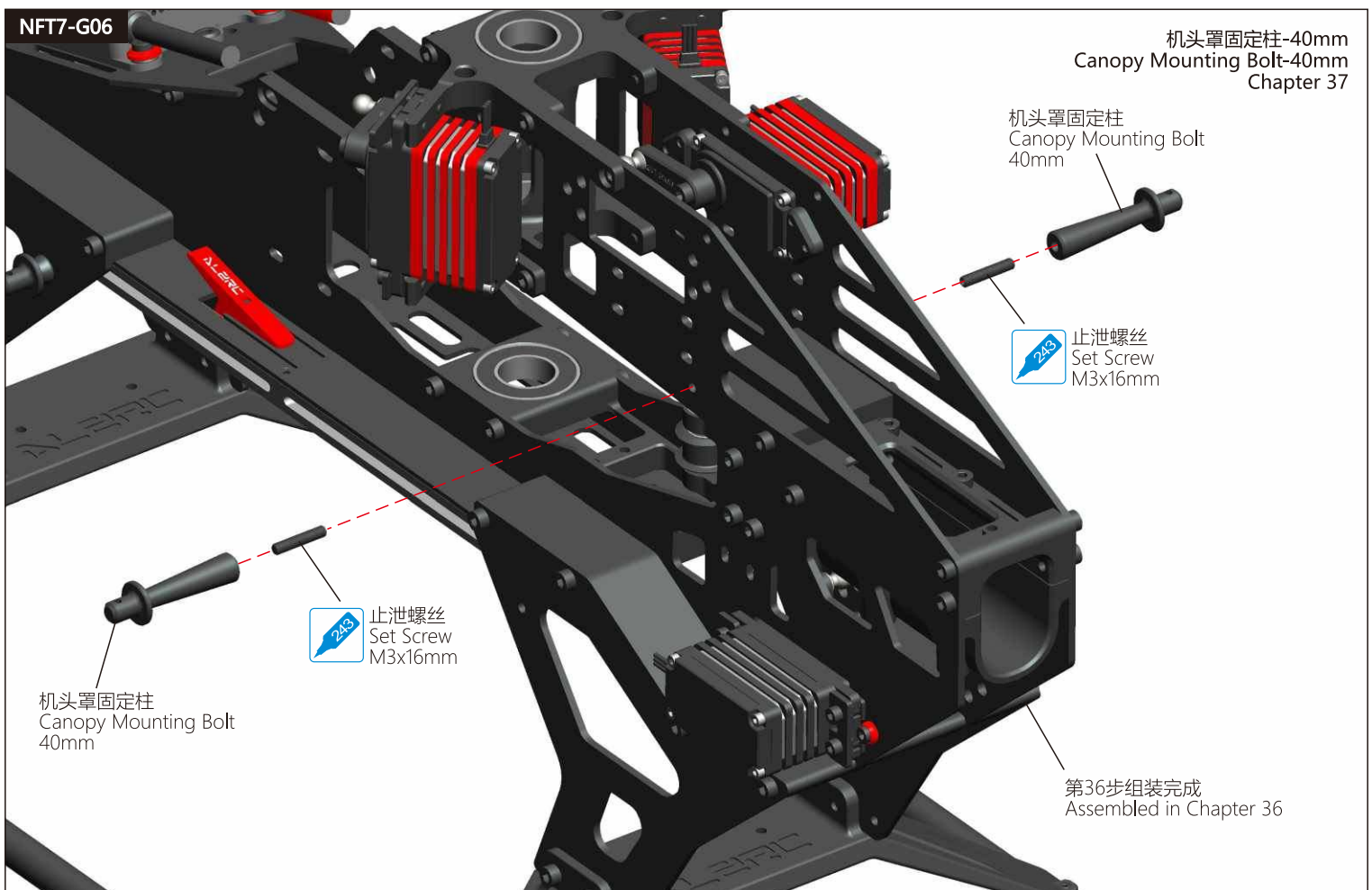
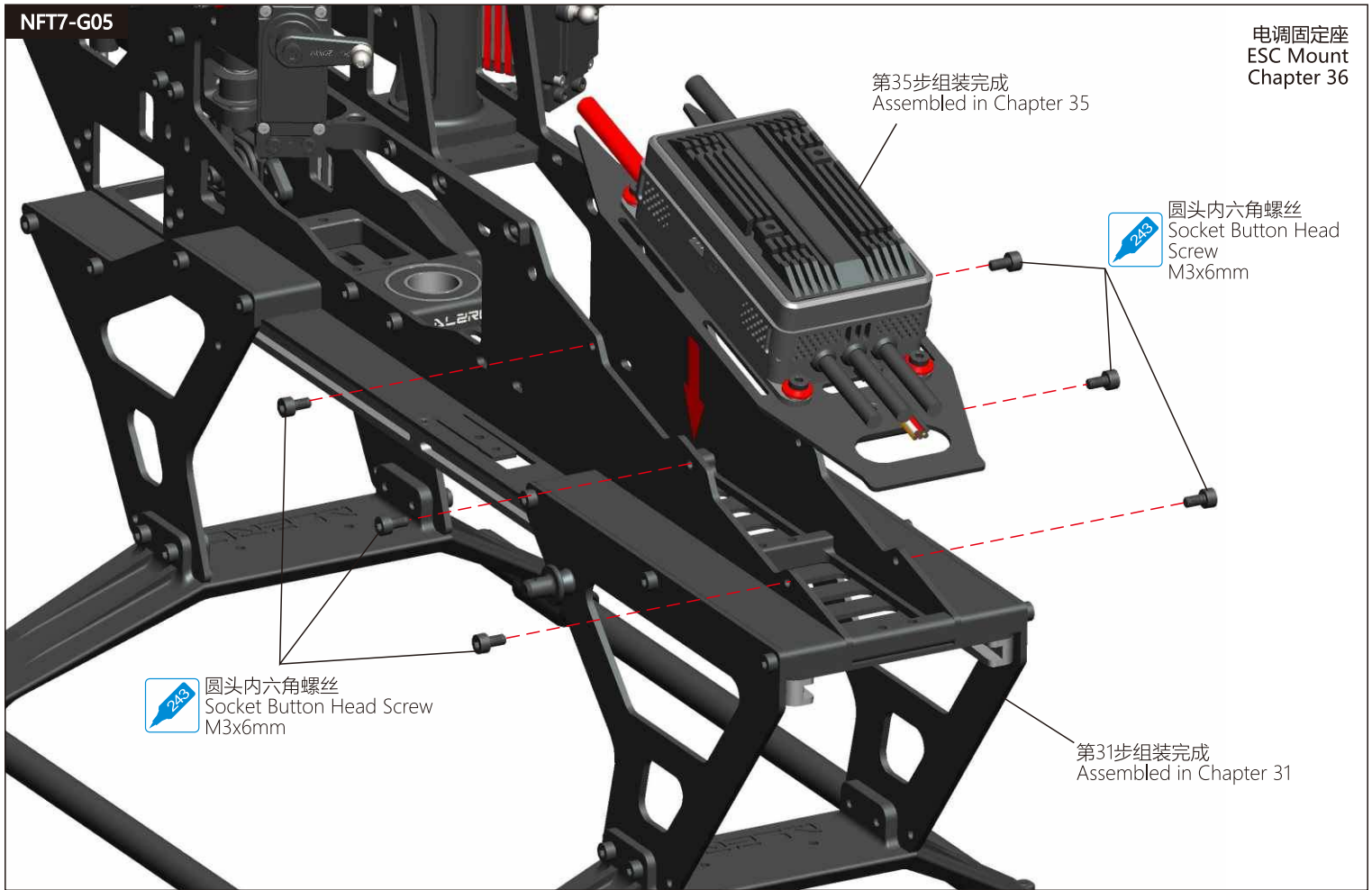
NFT7-G05

电调固定座
ESC Mount
Chapter 34

碳纤配件的制造工艺会导致边缘非常锋利，为了不损伤电缆，我们建议用砂纸打磨边缘。
The manufacturing process of the carbon fiber parts often leaves micro-burrs edges. We recommend de-burring the edges with sand paper to minimized the risks of cable cuts.

NFT7-G05

无刷电调
Brushless ESC
Chapter 35



NFT7-H01

金属尾旋翼夹座组
Metal Tail Rotor Holder Assembly
Chapter 38

对于强劲3D飞行或高转速转动, 建议横轴垫圈与轴承之间至少加一片垫片。大约20个起落后, 请检查虚位, 如果感觉松散, 可以再增加一片垫片。
We recommend assembling with at least one washer between the damper and bearing for 3D flight or high RPM. After about 20 flights, please manually check the head dampening, you can add one 0.1mm washer if the dampening feels loose.

尾旋翼夹座
Tail Rotor Holder

金属尾旋翼固定座
Metal Tail Rotor Housing Set

尾横轴
Tail Rotor Spindle Shaft $\Phi 5 \times 61 \text{mm}$

减震圈
O-ring $\Phi 4 \times 2 \text{mm}$

垫片
Washer $\Phi 5 \times \Phi 7 \times 0.1 \text{mm}$

球头 M3
Linkage Ball M3 $\Phi 4.70 \times 10 \text{mm}$

尾旋翼夹座
Tail Rotor Holder

垫片
Washer $\Phi 5 \times \Phi 7 \times 0.5 \text{mm}$

垫片
Washer $\Phi 3 \times \Phi 6 \times 0.5 \text{mm}$

轴承
Bearing $\Phi 5 \times \Phi 10 \times 4 \text{mm}$

推力轴承
Thrust Bearing $\Phi 5 \times \Phi 10 \times 4 \text{mm}$

轴承
Bearing $\Phi 5 \times \Phi 10 \times 4 \text{mm}$

防松螺帽
Locking Nut M3

内孔较大的里面
Larger ID Inside

凹槽面朝内
The Groove Faces Inward.

NFT7-H01

尾旋翼主轴
Tail Rotor Shaft
Chapter 39

第38步组装完成
Assembled in Chapter 38

防松螺帽
Locking Nut M2.5

尾旋翼主轴
Tail Rotor Shaft $\Phi 6 \times 71 \text{mm}$

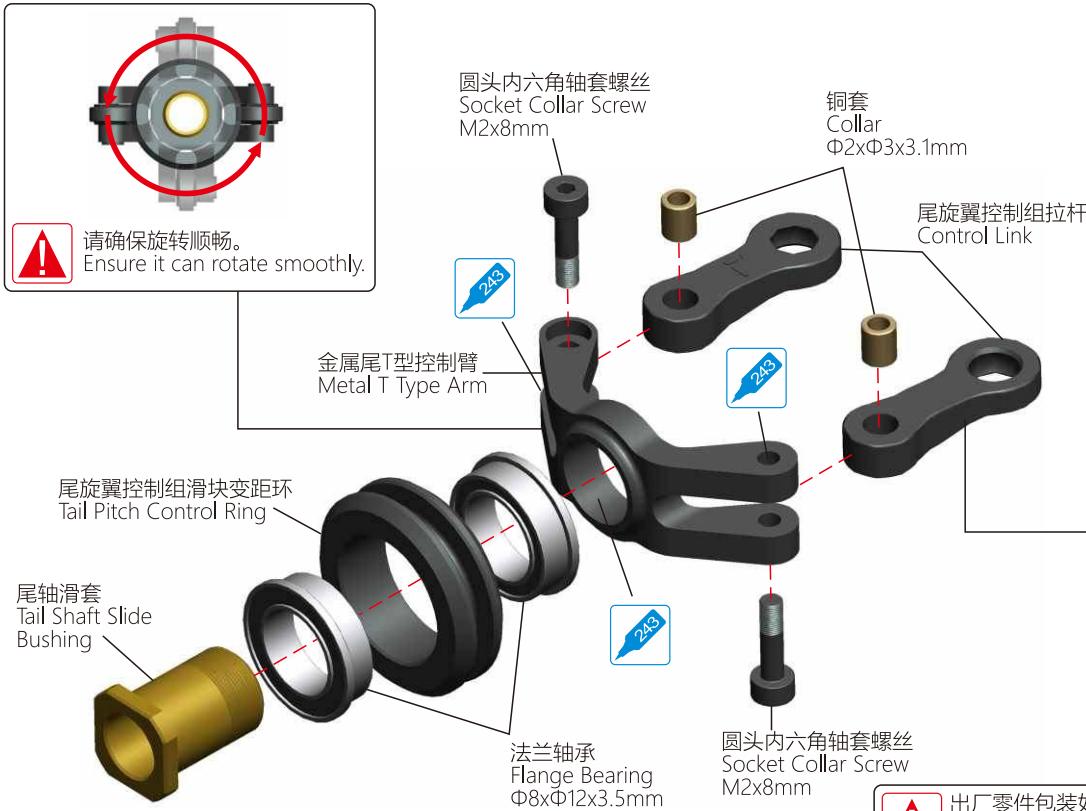
螺丝垫片-红
Screw Washer - Red M2.5

圆头内六角轴套螺丝
Socket Collar Screw M2.5x16mm

出厂零件包装如果是已组装机, 请务必确认各部件是否锁紧上胶。
For original manufactory package, If the product is already assembled by factory, please check again if parts are firmly secured and applied with some glue.

NFT7-H02

尾旋翼控制滑块组
Tail Pitch Slider Assembly
Chapter 40



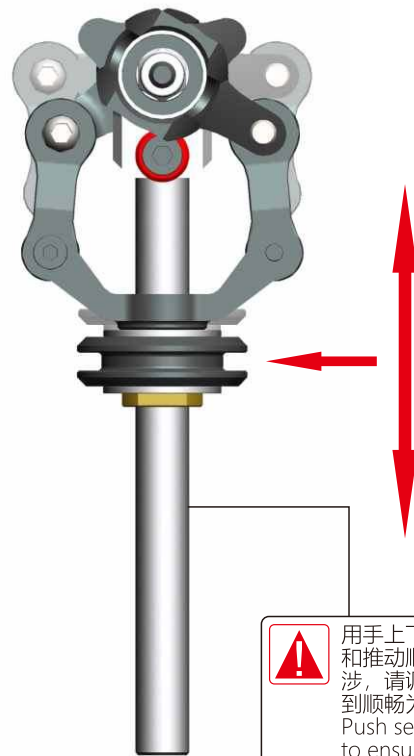
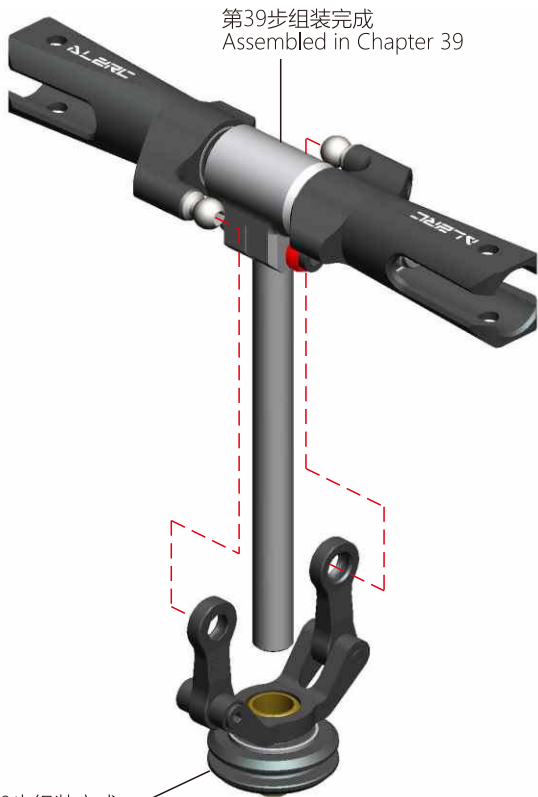
已经完成组装
Already Assembled

出厂零件包装如果是已组装机，请务必确认各部件是否锁紧上胶。
For original manufactory package, If the product is already assembled by factory, please check again if parts are firmly secured and applied with some glue.

NFT7-H01 | NFT7-H02

尾旋翼组
Tail Rotor Assembly
Chapter 41

尾旋翼组
Tail Rotor Assembly
Chapter 41



用手上下推动数次，确保摇摆和推动顺畅。如果感觉些微干涉，请调整拉杆螺丝松紧，直到顺畅为止。
Push several times with hand to ensure it swing smoothly. If it feels slightly interference, please adjust the tightness of screw rod, until smooth.

NFT7-H03

尾旋翼控制组摇臂
Bell Crank Lever
Chapter 42

变距环螺丝
Tail Pin Screw

法兰轴承
Flange Bearing
Φ3xΦ7x3mm

垫片
Washer
Φ3xΦ4.5x0.5mm

尾滑块控制组
Tail Rotor Control Set

垫片
Washer
Φ3xΦ4.5x0.5mm

变距环螺丝
Tail Pin Screw

法兰轴承
Flange Bearing
Φ3xΦ7x3mm

NFT7-H03

球头 M3
Linkage Ball M3
Φ6x12mm

圆头内六角螺丝
Socket Button Head Screw
M2x6mm

尾滑块控制摇臂
Tail Rotor Control Arm

第42步组装完成
Assembled in Chapter 42

NFT7-H03

尾齿箱
Tail Case Cap
Chapter 44

尾齿箱
Tail Case Cap

法兰轴承
Flange Bearing
Φ6xΦ15x5mm

NFT7-H03

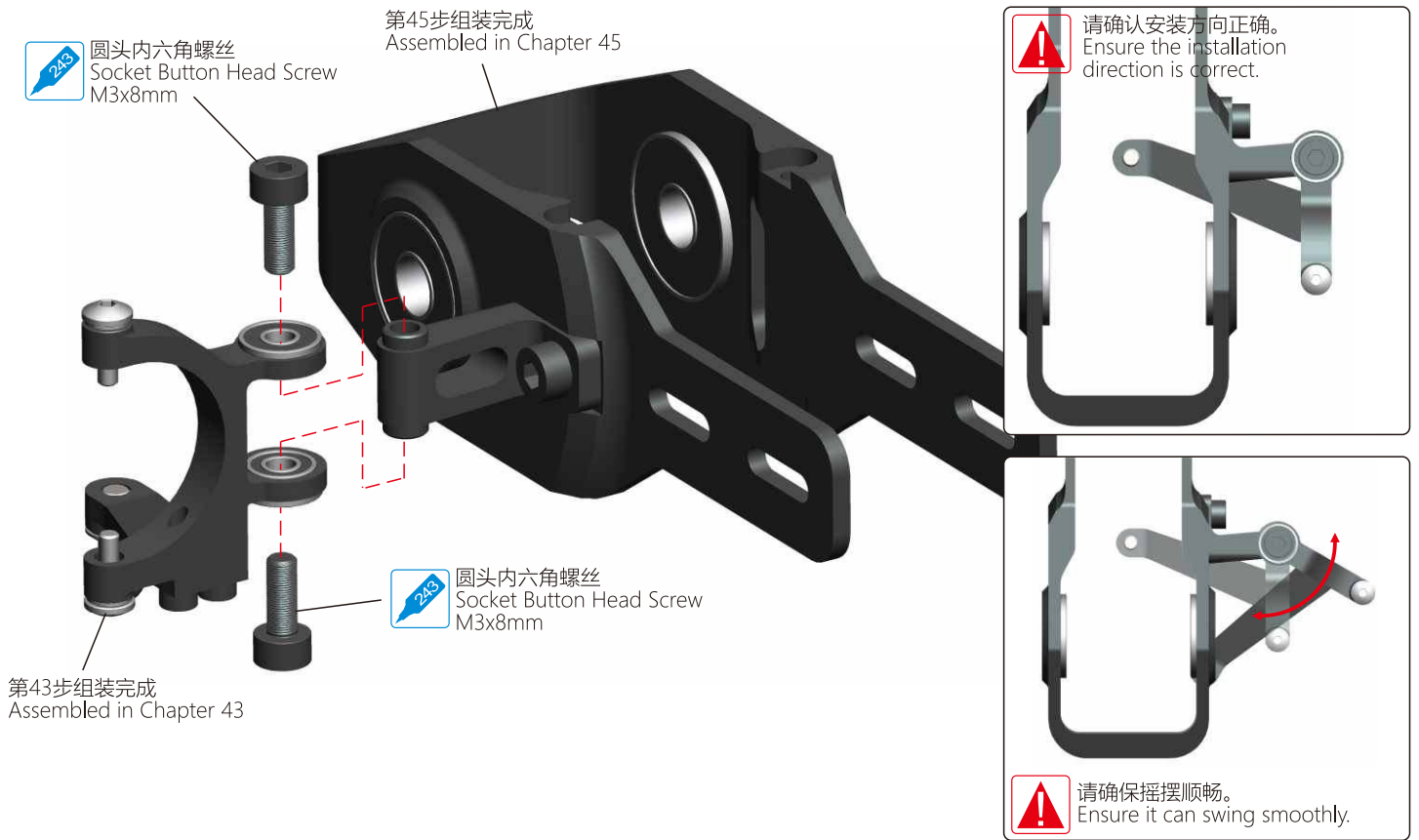
尾变距L型固定座
Tail Bell Crank L-shaped Mount
Chapter 45

第44步组装完成
Assembled in Chapter 44

圆头内六角螺丝
Socket Button Head Screw
M3x6mm

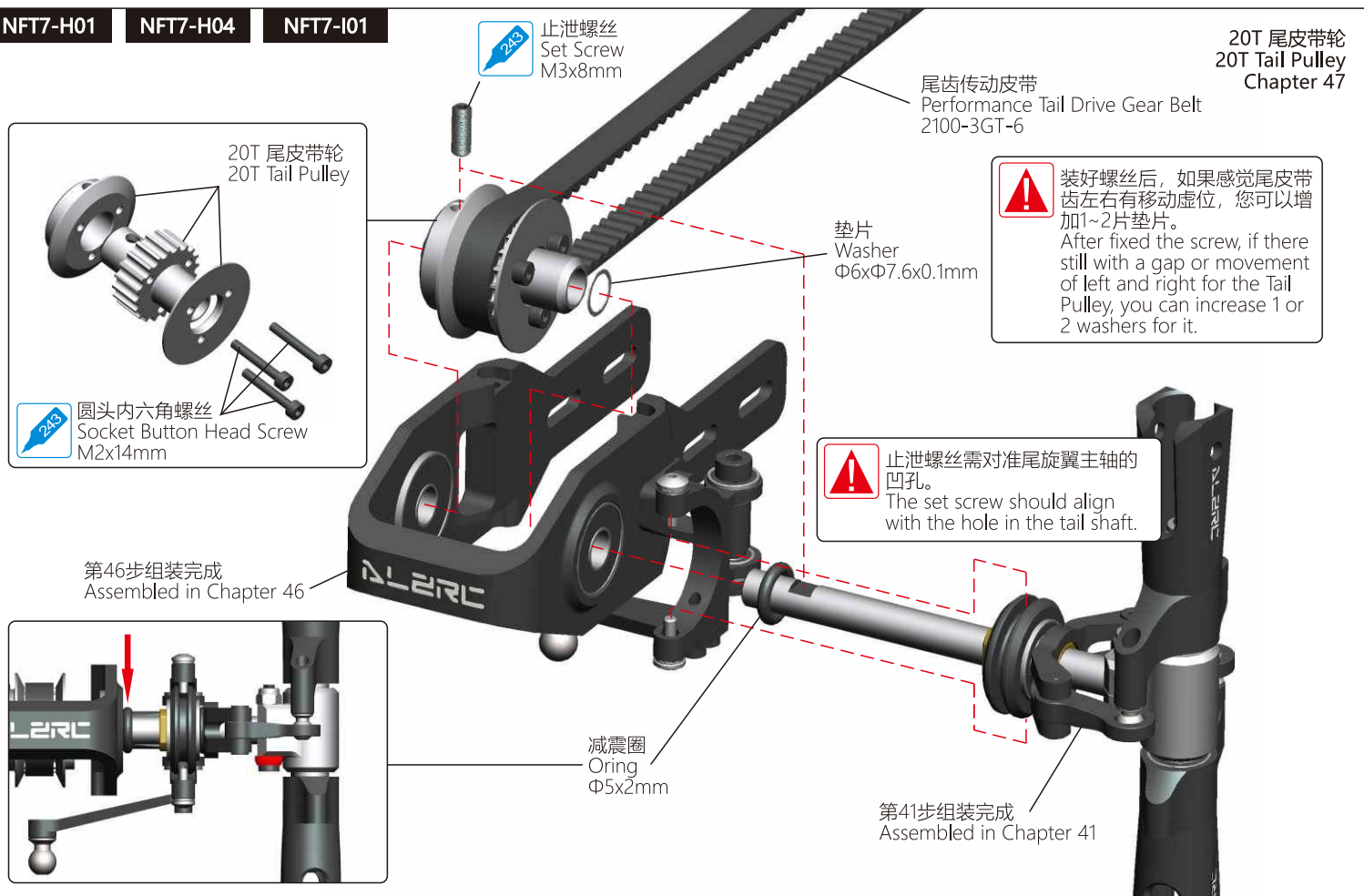
NFT7-H03

尾齿箱
Tail Case Cap
Chapter 46



NFT7-H01 | NFT7-H04 | NFT7-I01

20T 尾皮带轮
20T Tail Pulley
Chapter 47



NFT7-H03

尾齿箱压带轮
Tail Case Belt Idler
Chapter 48



NFT7-H03

尾齿箱压带轮
Tail Case Belt Idler
Chapter 49



NFT7-H05 | NFT7-K01 | NFT7-K05 | NFT7-K06

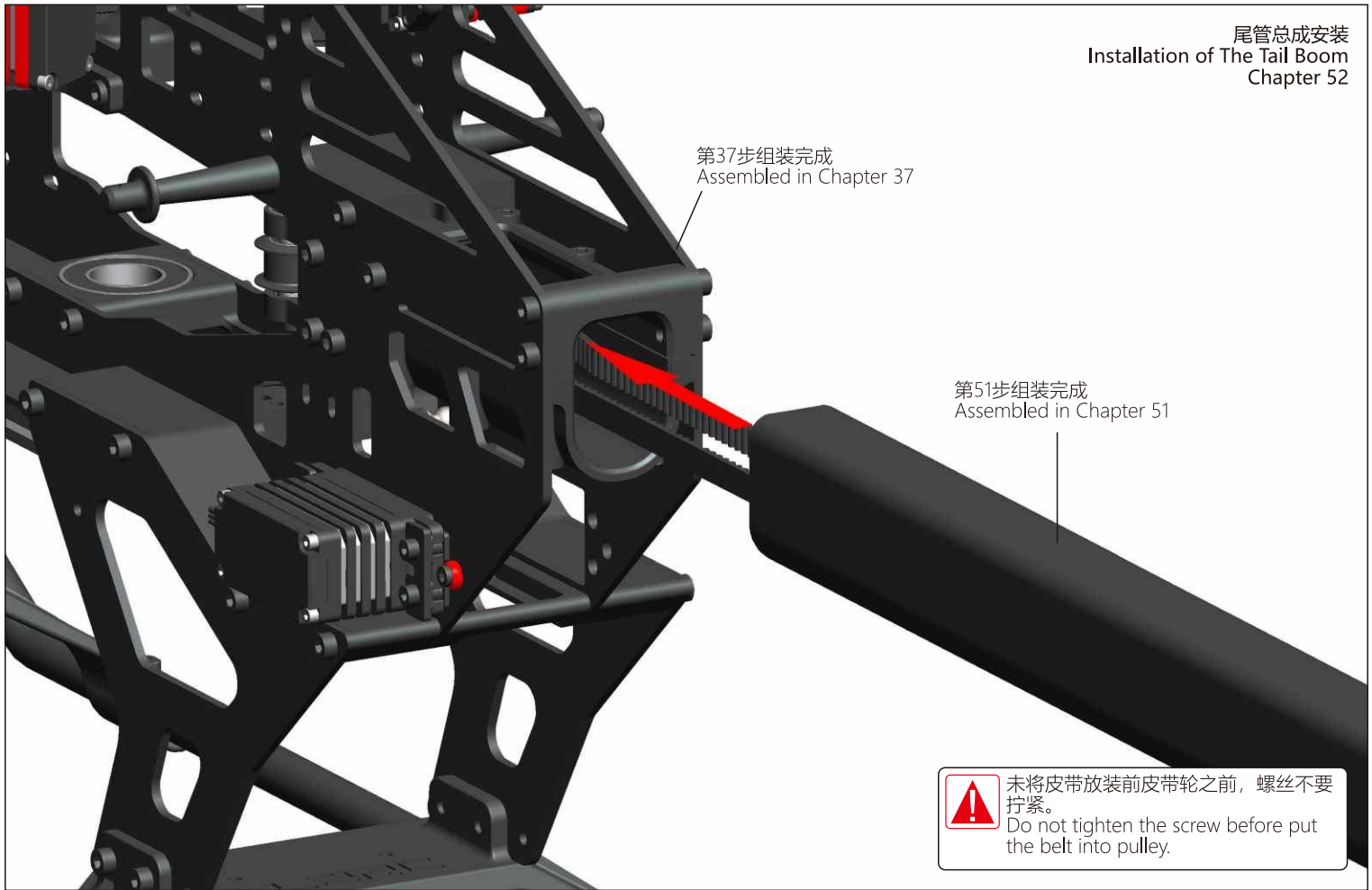
尾齿箱固定座
Tail Case Mount
Chapter 50



NFT7-J01 | NFT7-H05

碳纤维垂直翼
Carbon Fiber Vertical
Horizontal Stabilizer
Chapter 51



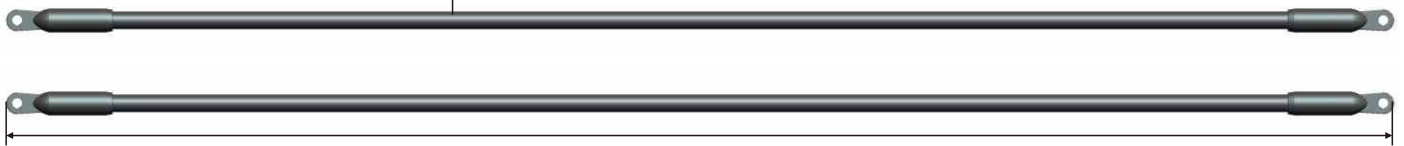
尾管总成安装
Installation of The Tail Boom
Chapter 52

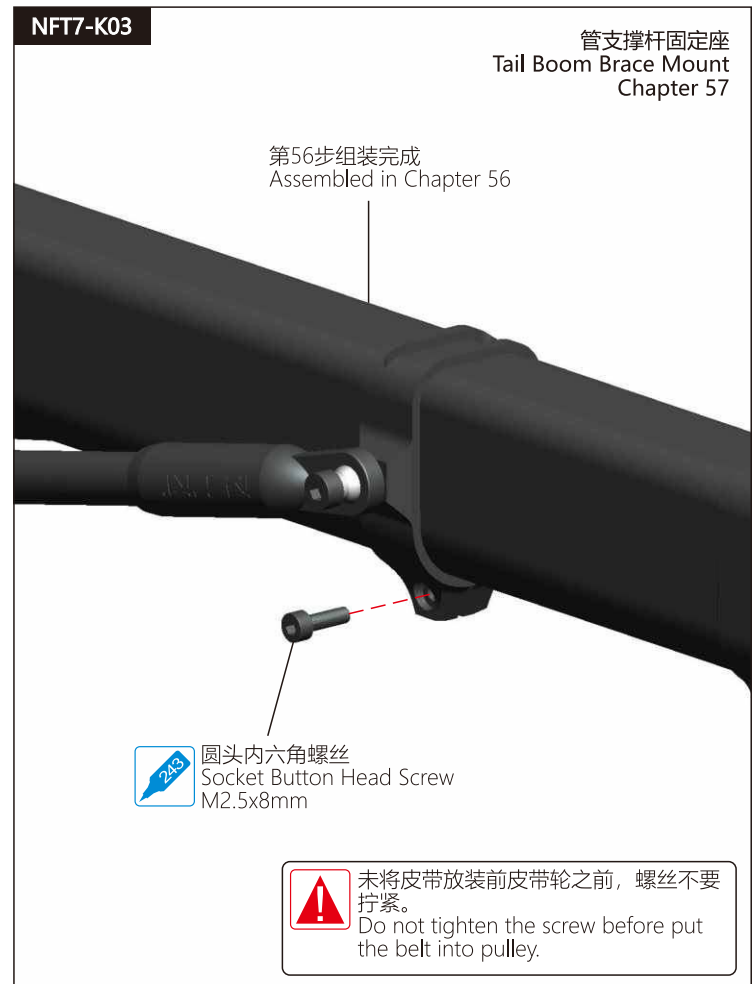
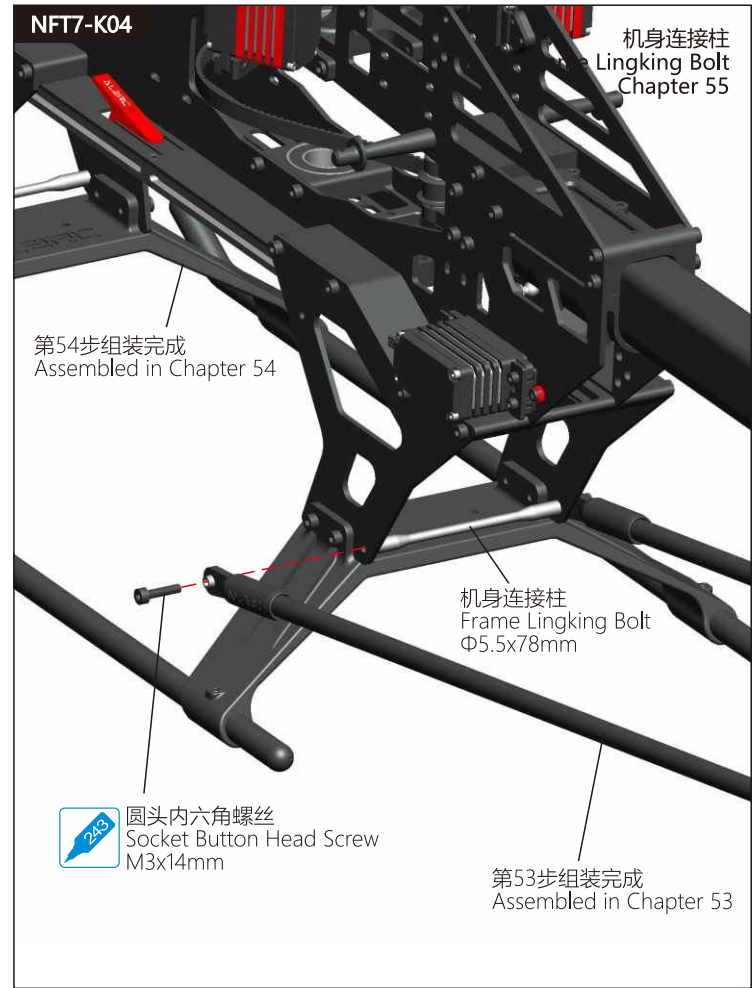
NFT7-K01

NFT7-K02

NFT7-K03

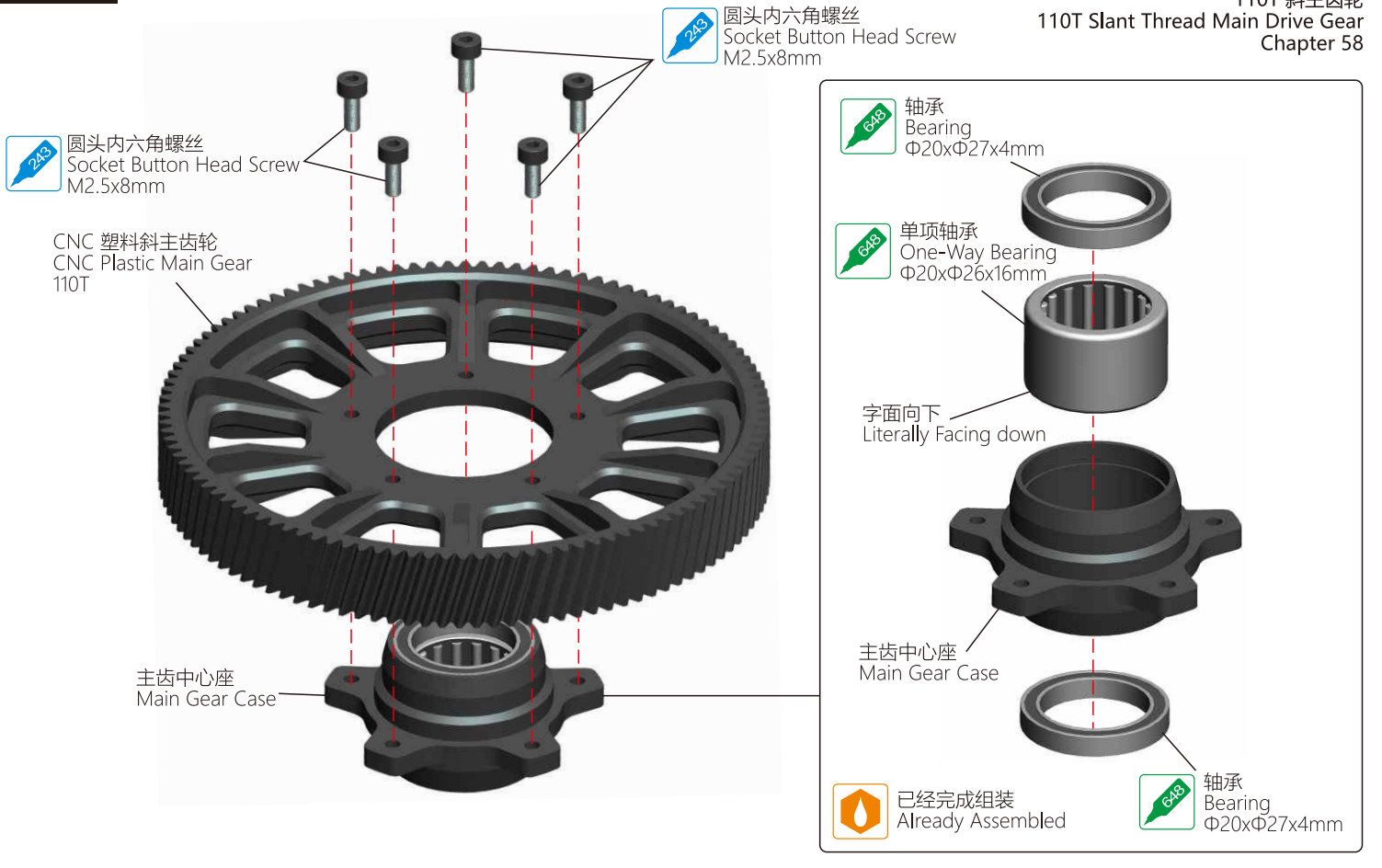
NFT7-K04

尾管支撑杆组
Tail Boom Brace Set
Chapter 53



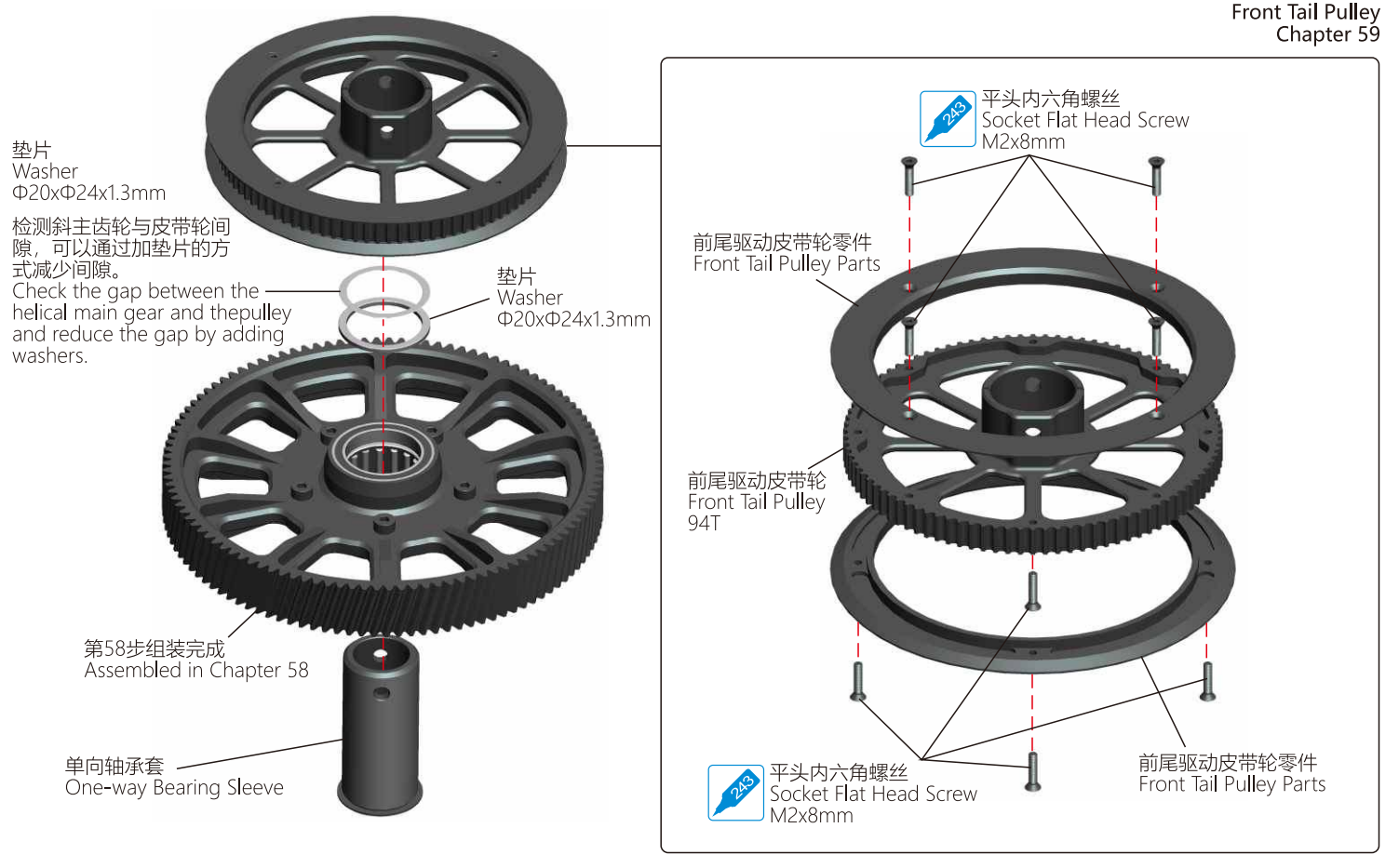
NFT7-L01

110T 斜主齿轮
110T Slant Thread Main Drive Gear
Chapter 58



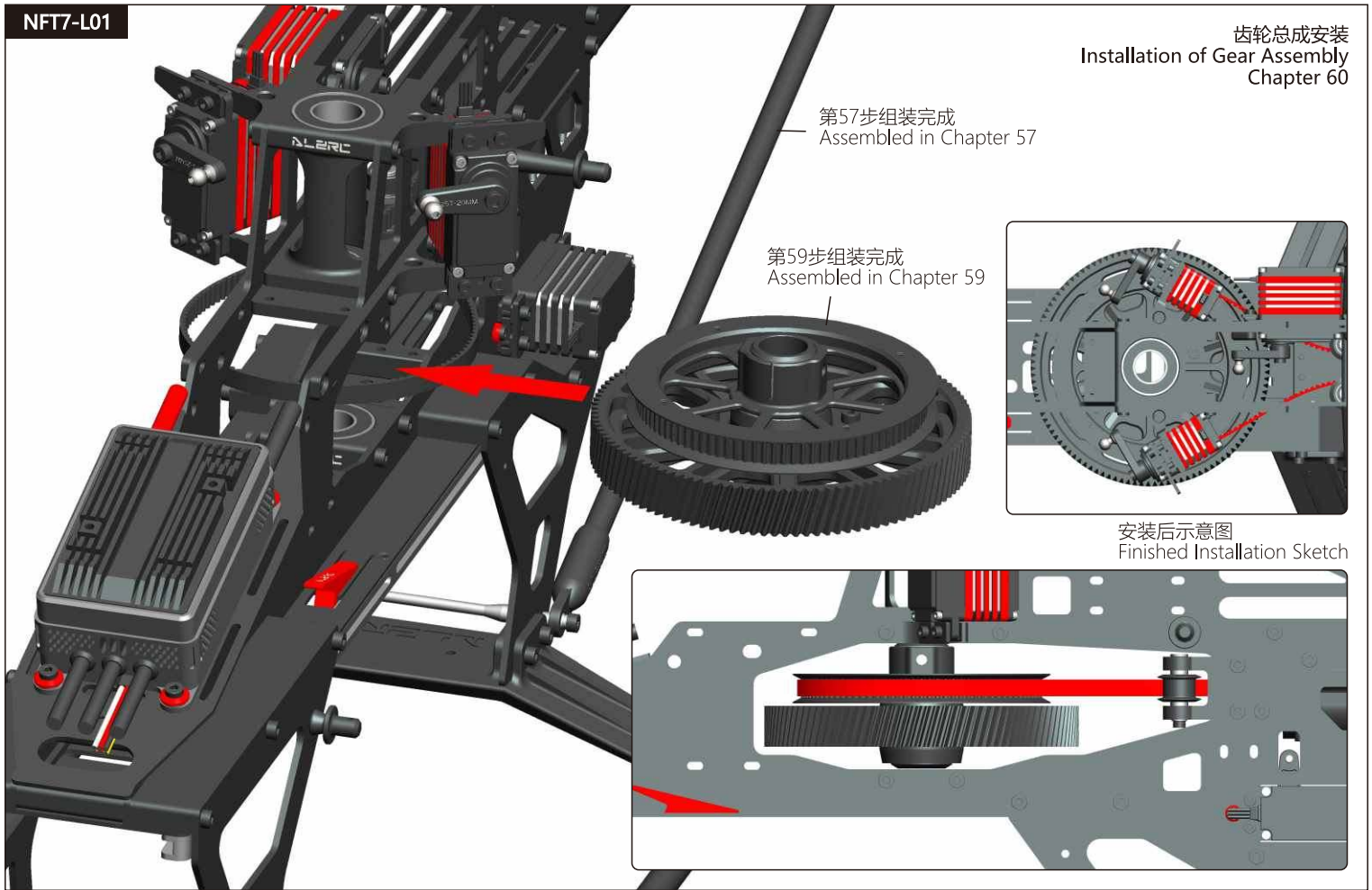
NFT7-L01

前尾驱动皮带轮
Front Tail Pulley
Chapter 59

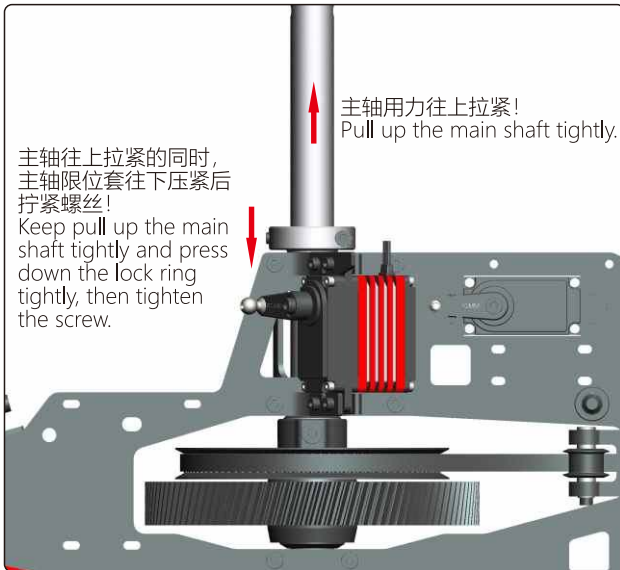


NFT7-L01

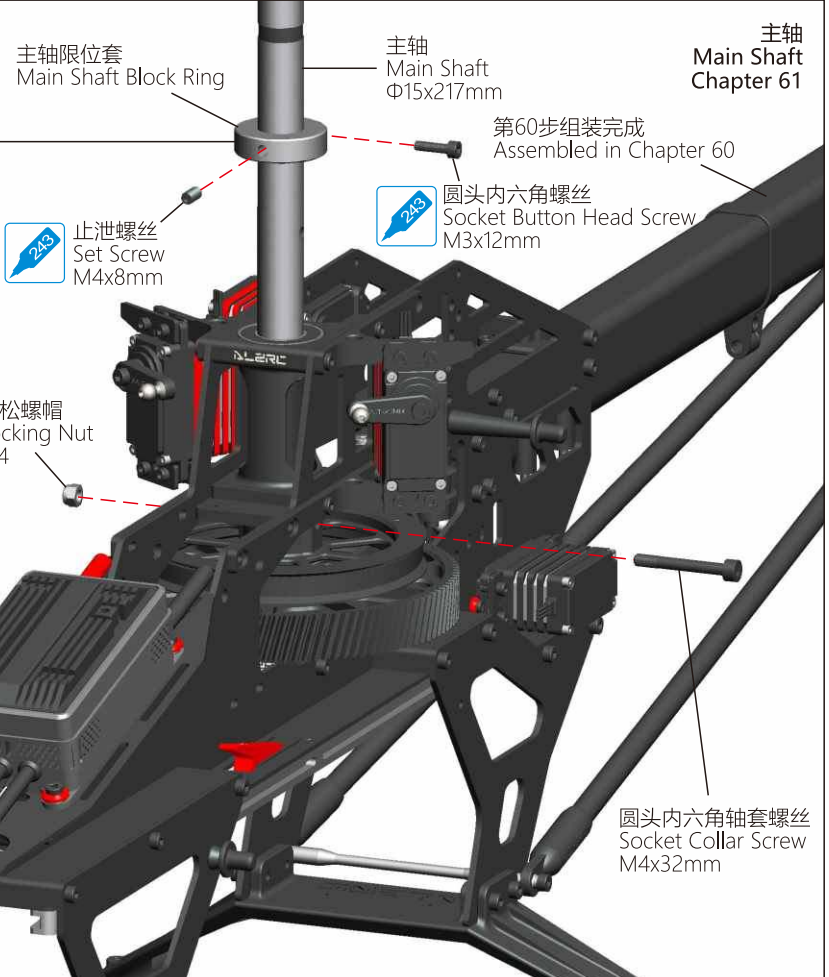
齿轮总成安装
Installation of Gear Assembly
Chapter 60



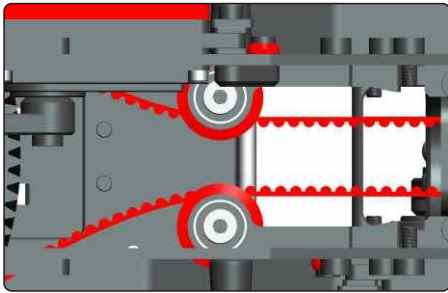
NFT7-N01 NFT7-N02 NFT7-L01



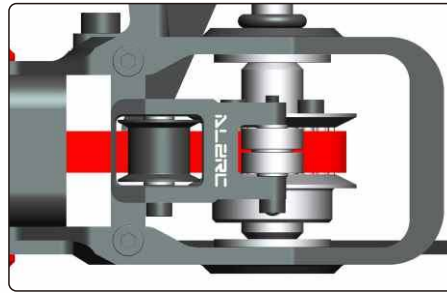
! 主轴限位套螺丝禁止过度拧紧, 避免造成主轴变形导致轴承不顺滑。
Main shaft lock ring screws are not allowed to be tightened excessively to avoid deformation of the main shaft, any deformation of the main shaft may block the bearing.



尾齿传动皮带安装
Installation of The Tail Drive Gear Belt
Chapter 62



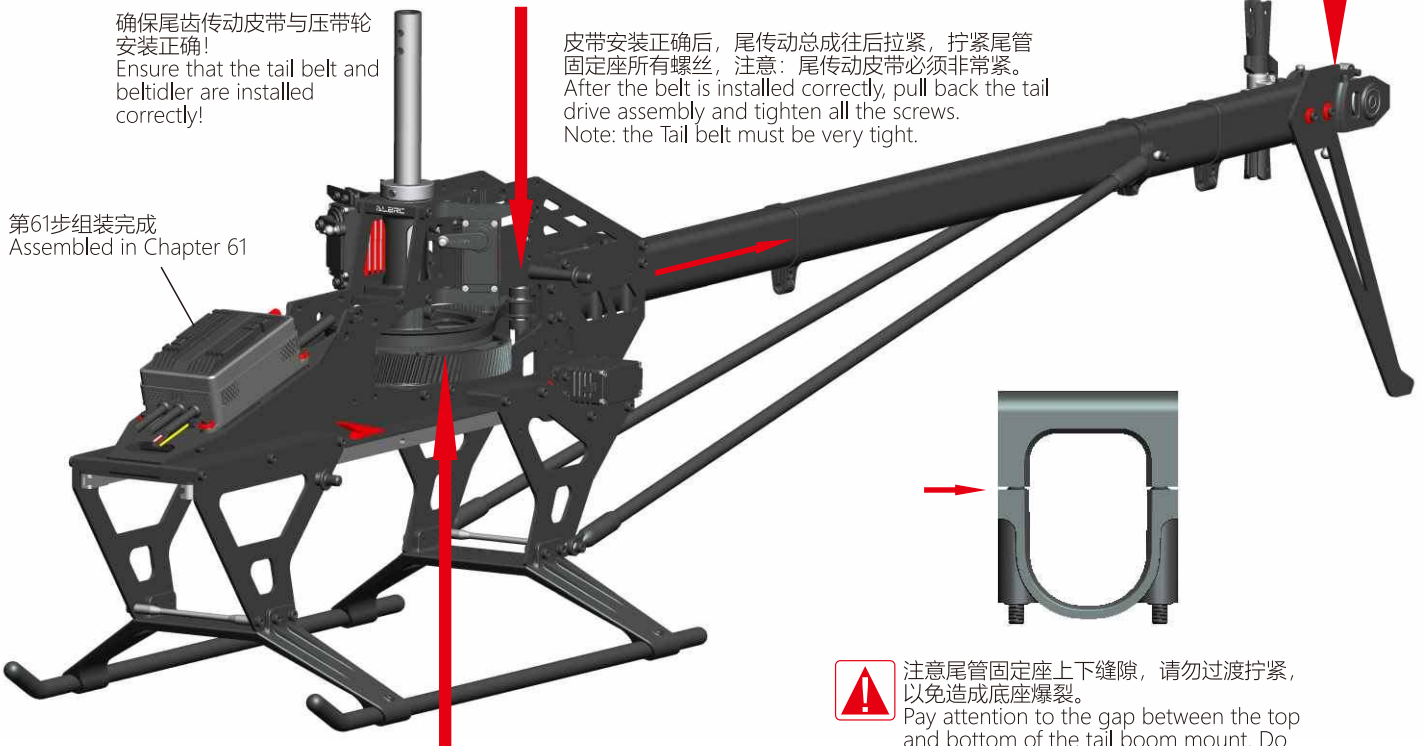
确保尾齿传动皮带与压带轮安装正确!
Ensure that the tail belt and beltidler are installed correctly!




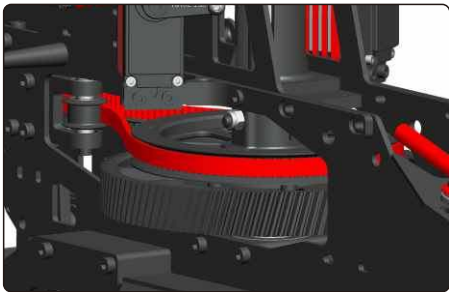
确保尾齿传动皮带与尾旋翼主轴安装正确!
Ensure that the tail belt and tail main shaft are installed correctly!

第61步组装完成
Assembled in Chapter 61

皮带安装正确后, 尾传动总成往后拉紧, 拧紧尾管固定座所有螺丝, 注意: 尾传动皮带必须非常紧。
After the belt is installed correctly, pull back the tail drive assembly and tighten all the screws. Note: the Tail belt must be very tight.



 注意尾管固定座上下缝隙, 请勿过渡拧紧, 以免造成底座爆裂。
Pay attention to the gap between the top and bottom of the tail boom mount. Do not tighten it too tightly to avoid the burst of the tail boom mount.



确保尾齿传动皮带与前尾驱动皮带轮安装正确!
Ensure that the tail belt and the front tail pulley are installed correctly!

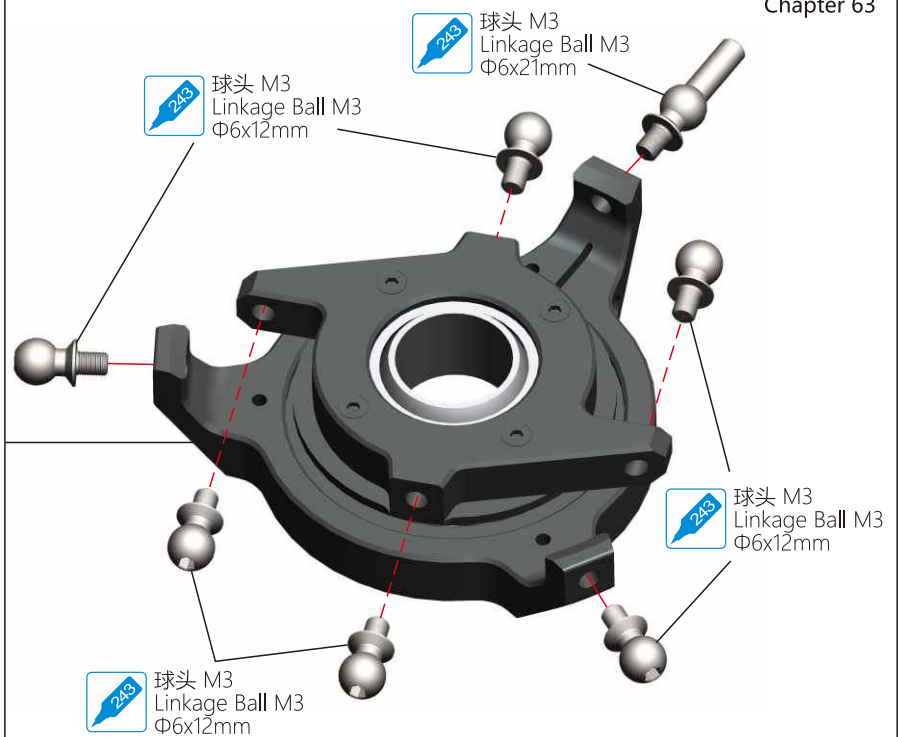
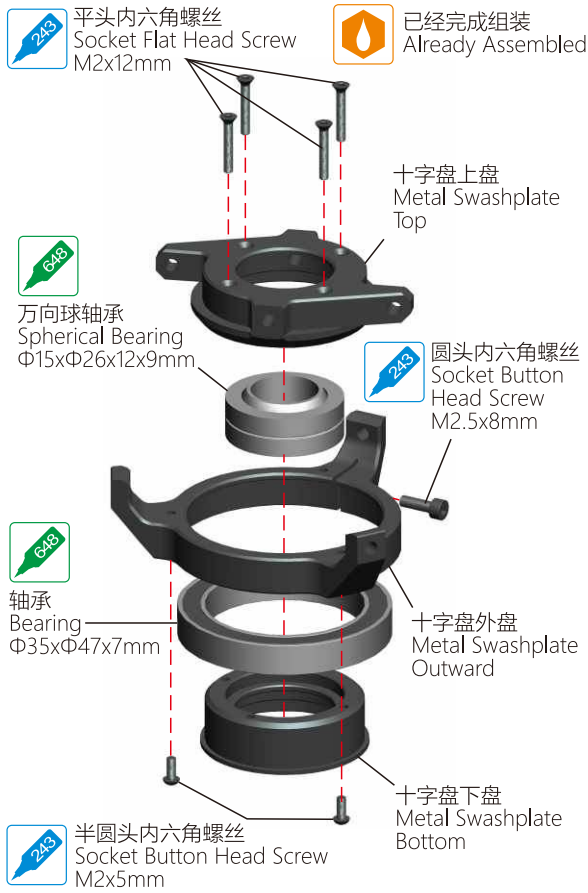


 用手转动主轴, 检查皮带是否正确安装。
Turn the main shaft by hand to check the belt is properly installed or not.



NFT7-M01

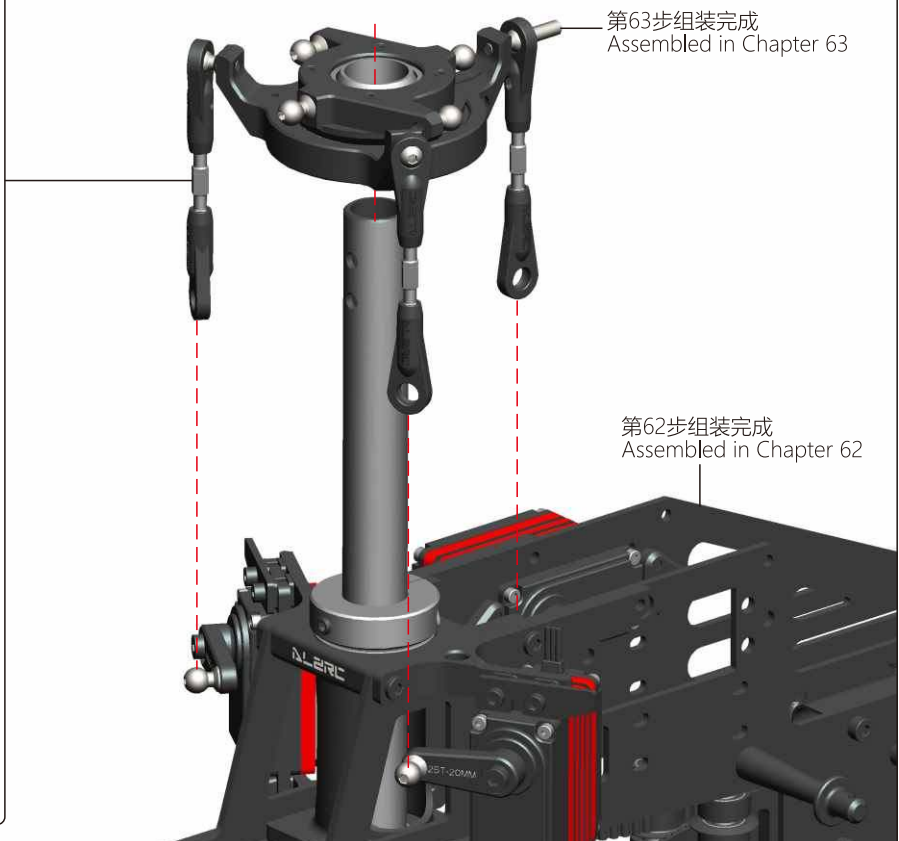
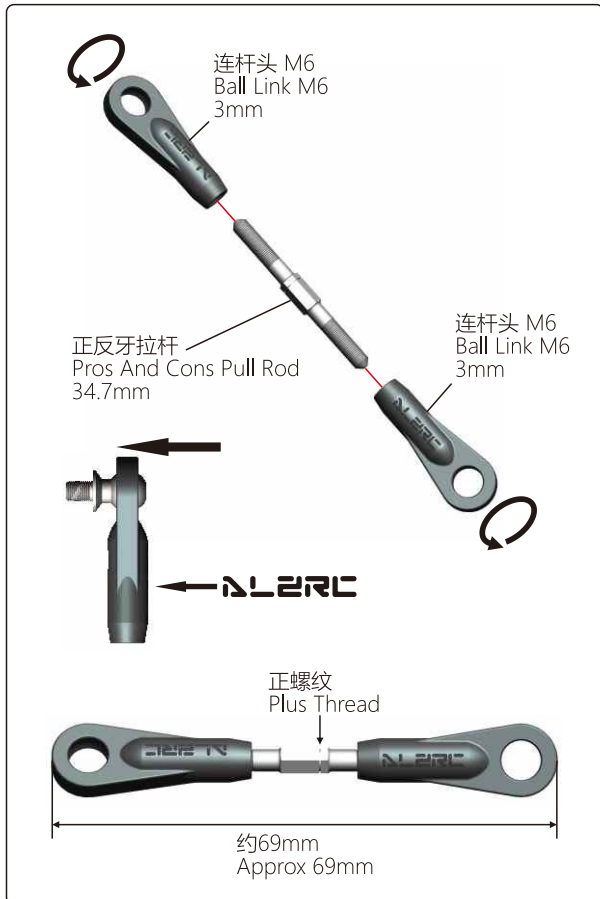
十字盘组
CCPM Metal Swashplate Assembly
Chapter 63



出厂零件包装如果是已组装机，请务必确认各部件是否锁紧上胶。
For original manufactory package, If the product is already assembled by factory, please check again if parts are firmly secured and applied with some glue.

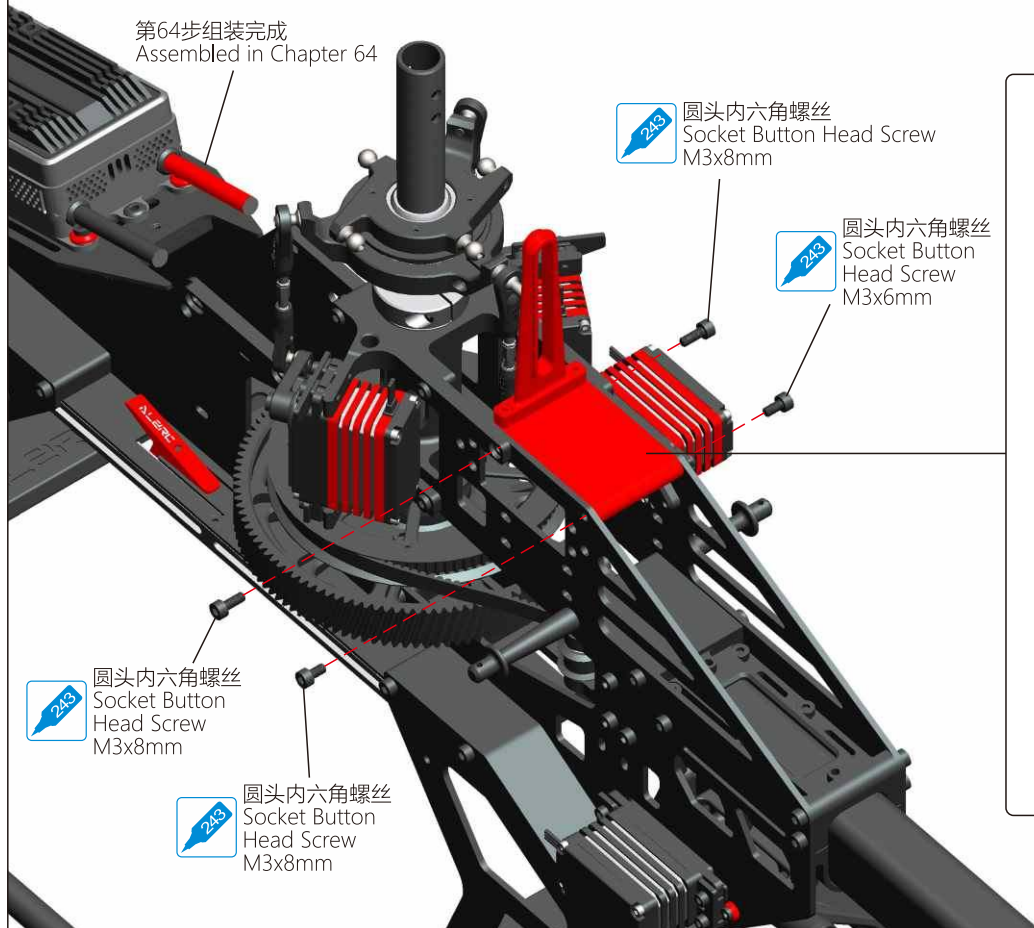
NFT7-M02

十字盘舵机拉杆 x3
Swashplate Servo Pull Rod x3
Chapter 64



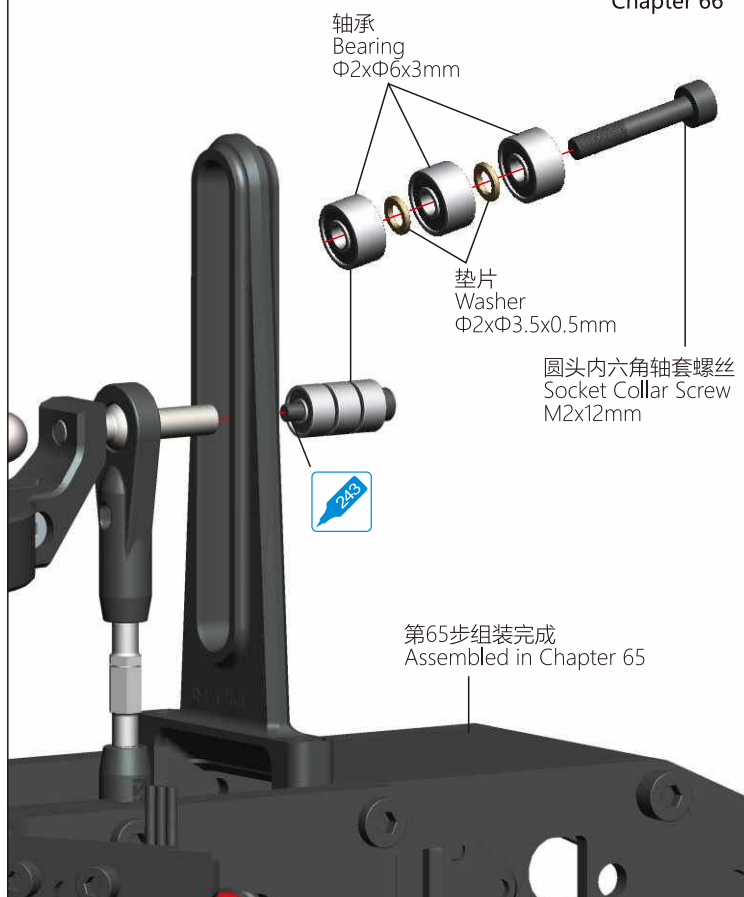
NFT7-M03 NFT7-M04

十字盘导板
Anti-Rotation Bracket
Chapter 65



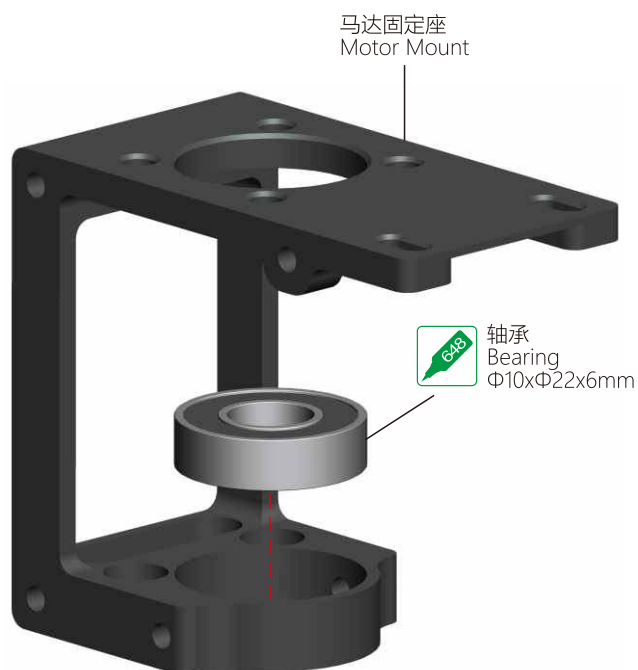
NFT7-M01

十字盘组
CCPM Metal Swashplate Assembly
Chapter 66



NFT7-M05

马达固定座
Motor Mount
Chapter 67



NFT7-M06

11T 马达齿轮
11T Motor Gear
Chapter 68

无刷马达
Brushless Motor
4530 - 520KV

止泄螺丝
Set Screw
M4x4mm

11T 马达齿轮
11T Motor Gear

安装后, 马达线的正确位置。
Correct position for the motor wires.

止泄螺丝
Set Screw
M4x4mm

第67步组装完成
Assembled in Chapter 67

圆头内六角螺丝
Socket Button Head Screw
M4x10mm / M4x8mm

圆头内六角螺丝
Socket Button Head Screw
M4x10mm / M4x8mm

NFT7-M05

马达固定座总成安装
Installation of Motor Mount
Chapter 69

第68步组装完成
Assembled in Chapter 68

第66步组装完成
Assembled in Chapter 66

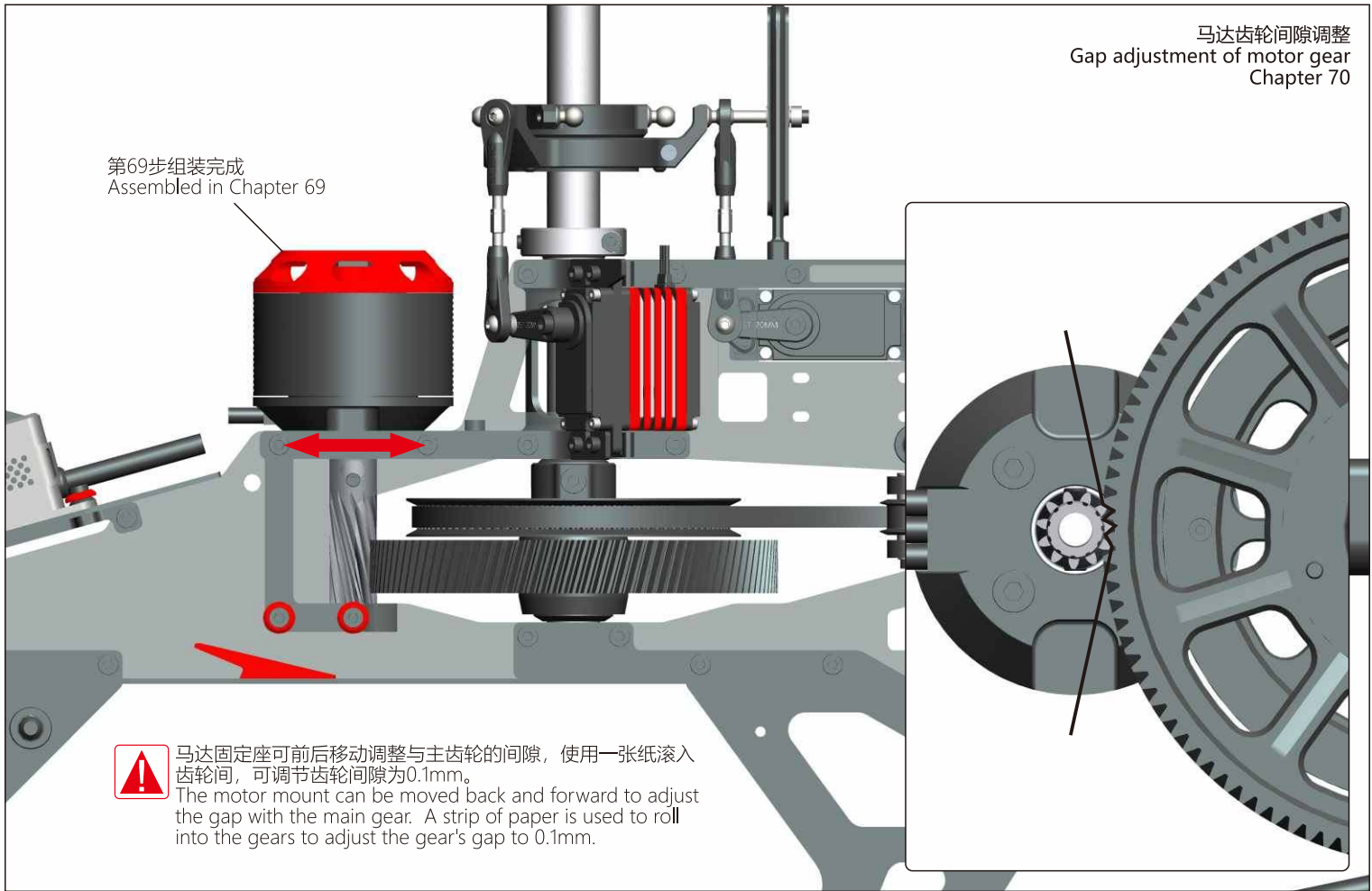
螺丝垫片-红
Screw Washer - Red
M3.0

圆头内六角螺丝
Socket Button Head Screw
M3x8mm



未调整电机齿与斜主齿轮间隙之前, 请勿拧紧螺丝。
Do not tighten the screws before adjusting the gap between motor gear and main gear.

马达齿轮间隙调整
Gap adjustment of motor gear
Chapter 70



NFT7-C01

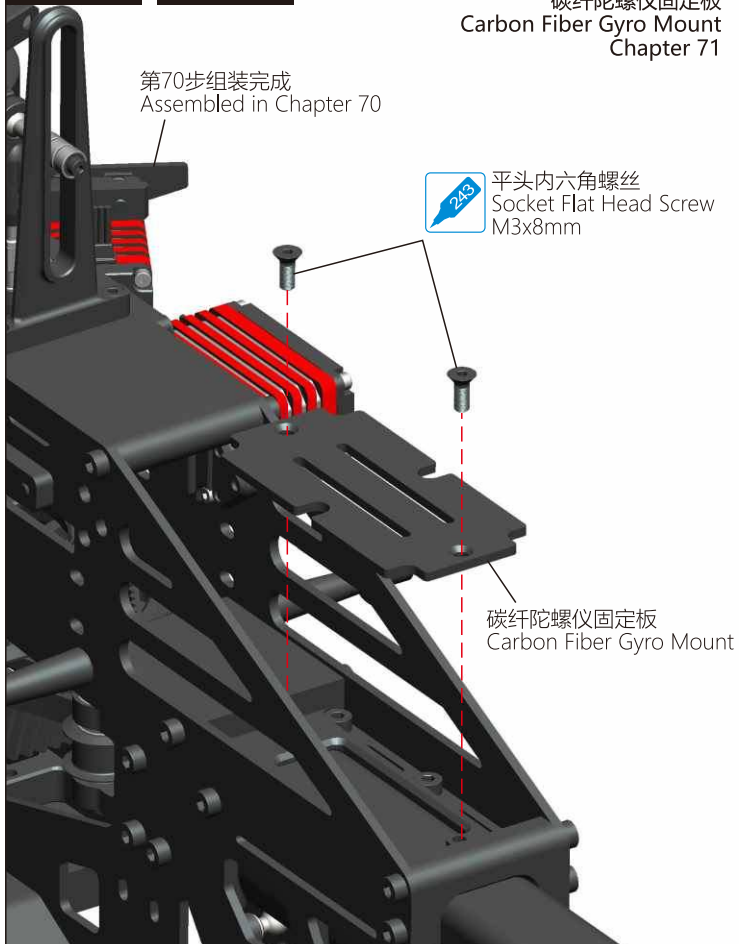
NFT7-C04

碳纤维陀螺仪固定板
Carbon Fiber Gyro Mount
Chapter 71

第70步组装完成
Assembled in Chapter 70

平头内六角螺丝
Socket Flat Head Screw
M3x8mm

碳纤维陀螺仪固定板
Carbon Fiber Gyro Mount

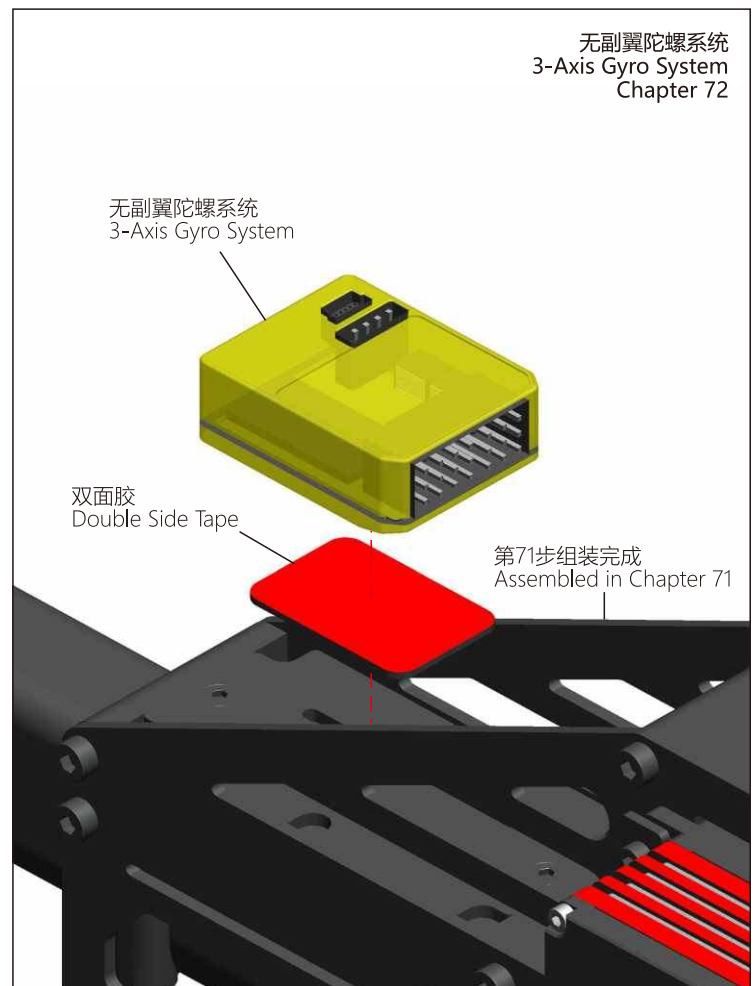


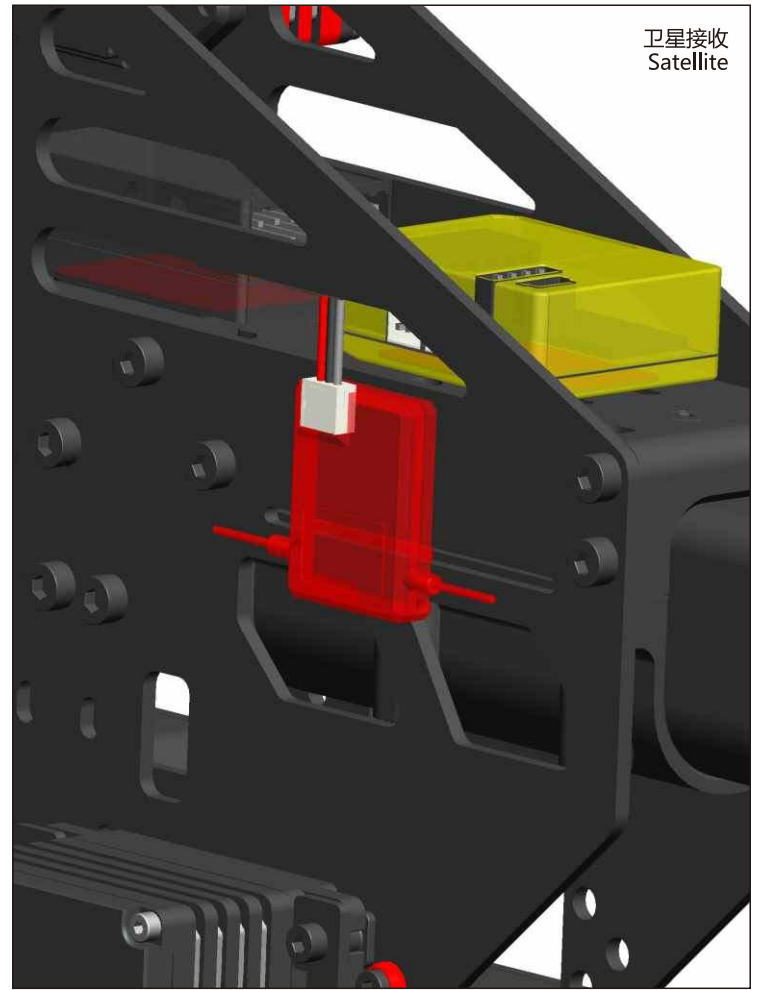
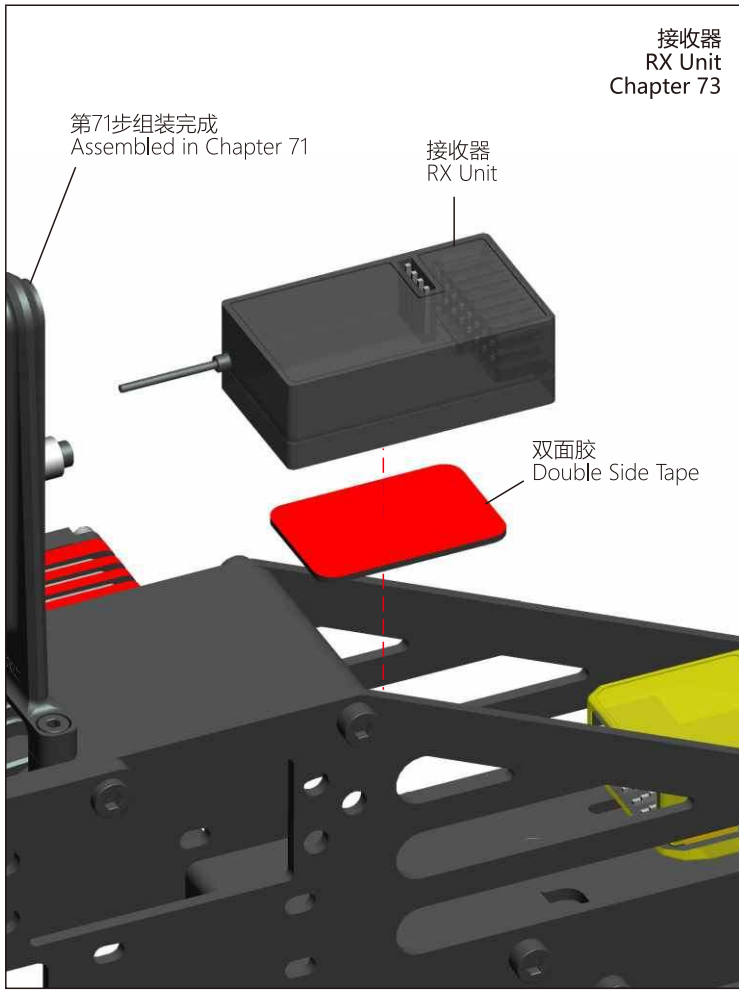
无副翼陀螺系统
3-Axis Gyro System
Chapter 72

无副翼陀螺系统
3-Axis Gyro System

双面胶
Double Side Tape

第71步组装完成
Assembled in Chapter 71





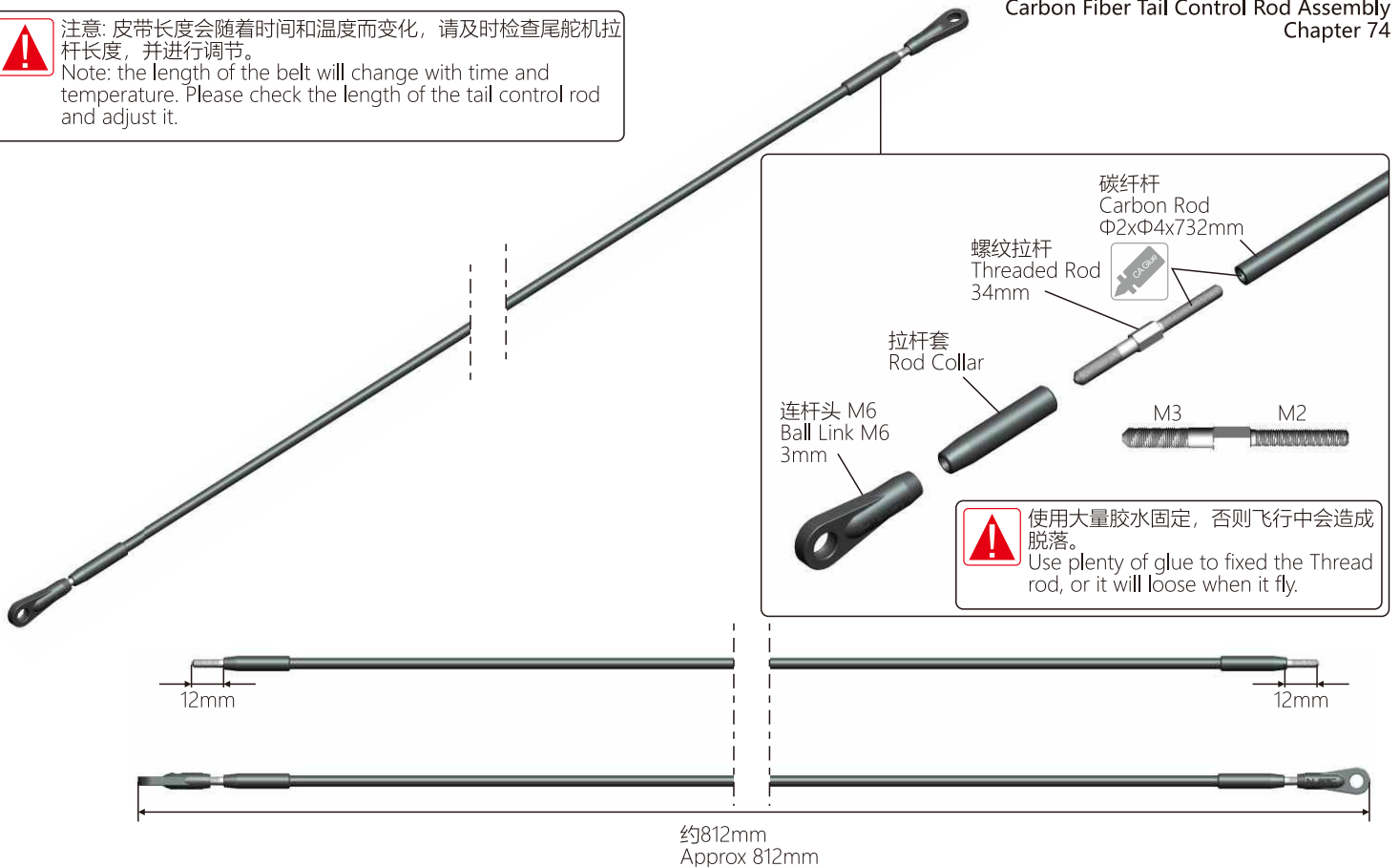
NFT7-K01

NFT7-K05

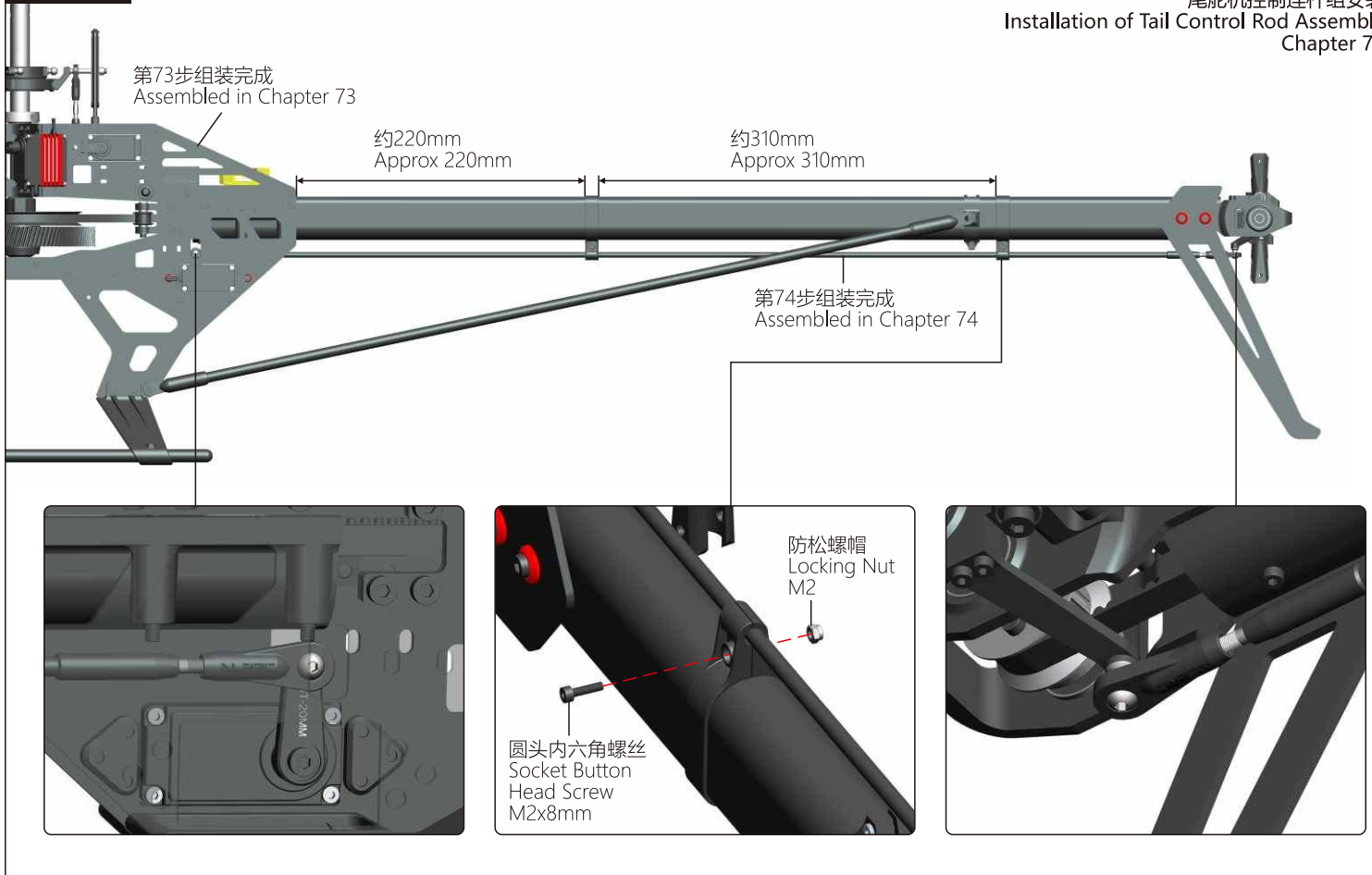


注意: 皮带长度会随着时间和温度而变化, 请及时检查尾舵机拉杆长度, 并进行调节。
Note: the length of the belt will change with time and temperature. Please check the length of the tail control rod and adjust it.

碳纤维尾舵机控制连杆组
Carbon Fiber Tail Control Rod Assembly
Chapter 74



NFT7-K06

尾舵机控制连杆组安装
Installation of Tail Control Rod Assembly
Chapter 75

NFT7-O01

金属主旋翼夹座组 x2
Metal Main Rotor Holder Assembly x2
Chapter 76

NFT7-O01

金属主旋翼固定座
Metal Main Rotor Housing Set
Chapter 77

NFT7-001

主旋翼组
Main Rotor Head Assembly
Chapter 78



NFT7-001

Radius 摇臂拉杆 x2
Radius Plastic Arm x2
Chapter 79



NFT7-001

Radius 摇臂组 x2
Radius Arm Assembly x2
Chapter 80



NFT7-O01

主旋翼组

Main Rotor Head Assembly
Chapter 81

未将主旋翼组放装前主轴之前，M3x30mm 圆头内六角螺丝不要拧紧。
Do not tighten the M3x30mm socket head screw before the main rotor assembly is installed on the main shaft.

第78步组装完成
Assembled in Chapter 78



圆头内六角螺丝
Socket Button Head Screw
M3x30mm



圆头内六角螺丝
Socket Button Head Screw
M3x30mm

第80步组装完成
Assembled in Chapter 80



出厂零件包装如果是已组装机，请务必确认各部件是否锁紧上胶。
For original manufactory package, If the product is already assembled by factory, please check again if parts are firmly secured and applied with some glue.

NFT7-O01

主旋翼组安装

Installation of Main Rotor Head
Chapter 82

第81步组装完成
Assembled in Chapter 81



圆头内六角轴套螺丝
Socket Collar Screw
M4x25mm

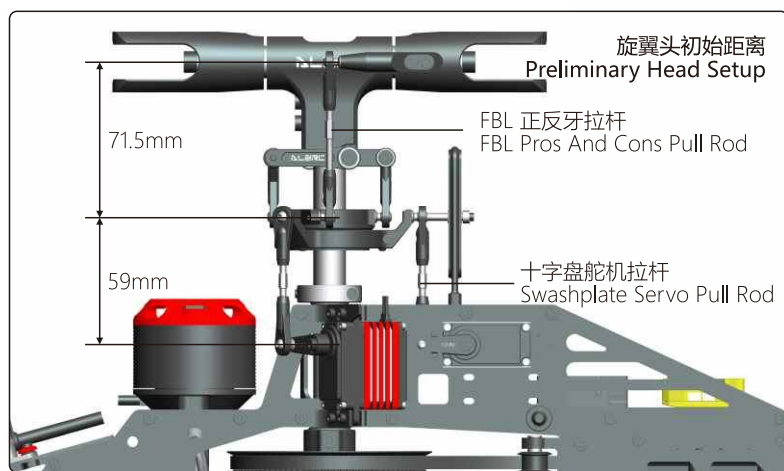
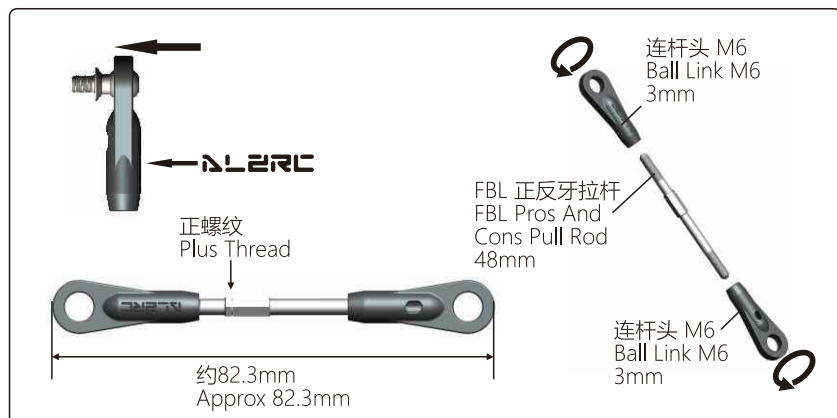


FBL摇臂螺丝禁止过度拧紧，避免造成主轴变形导致轴承不顺滑。
Radius Arm Assembly screws are not allowed to be tightened excessively to avoid deformation of the main shaft, any deformation of the main shaft may block the bearing.

第75步组装完成
Assembled in Chapter 75

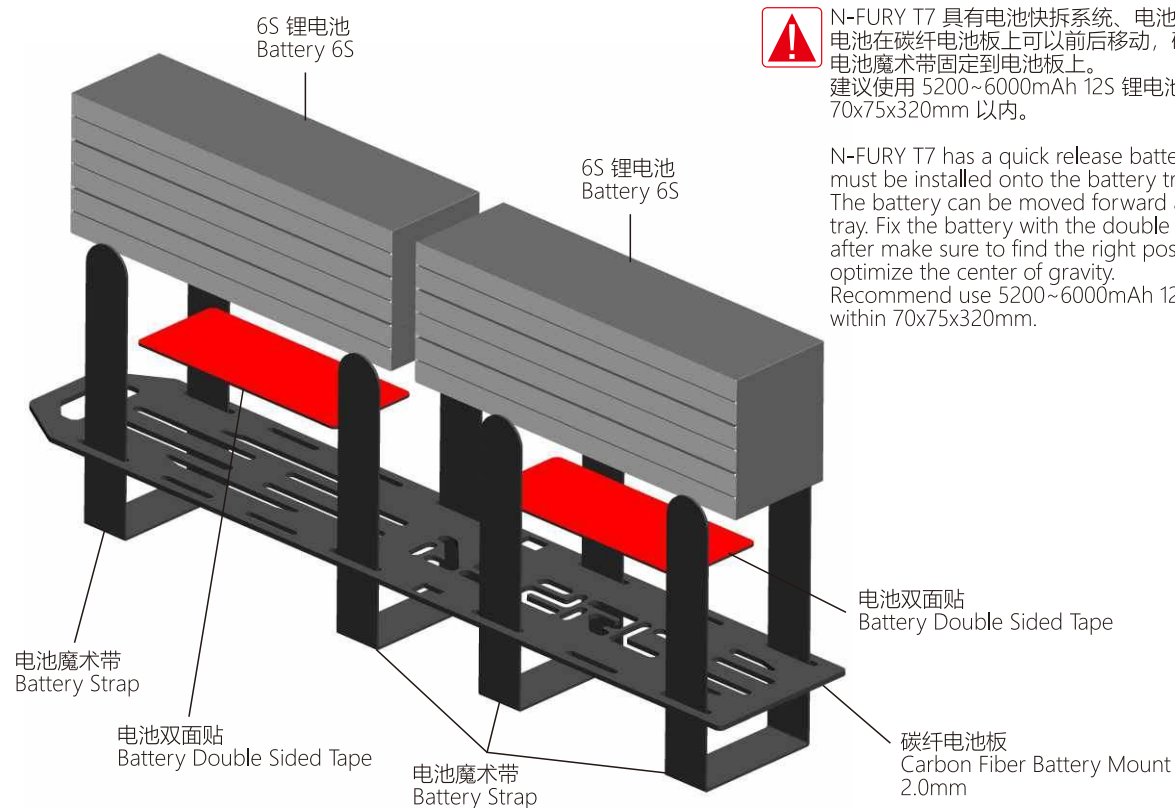
NFT7-O02

FBL 正反牙拉杆组 x2
FBL Pros And Cons Pull Rod Set x2
Chapter 83



NFT7-P01

碳纤电池板
Carbon Fiber Battery Mount
Chapter 84



N-FURY T7 具有电池快拆系统、电池必须安装在碳纤电池板上。电池在碳纤电池板上可以前后移动，确认重心后，用双面魔术贴和电池魔术带固定到电池板上。建议使用 5200~6000mAh 12S 锂电池，宽高尺寸限制在 70x75x320mm 以内。


N-FURY T7 has a quick release battery tray system. The battery must be installed onto the battery tray. The battery can be moved forward and backward on the battery tray. Fix the battery with the double side tape and Velcro strap after make sure to find the right position of the battery to optimize the center of gravity. Recommend use 5200~6000mAh 12S lithium battery with the size within 70x75x320mm.

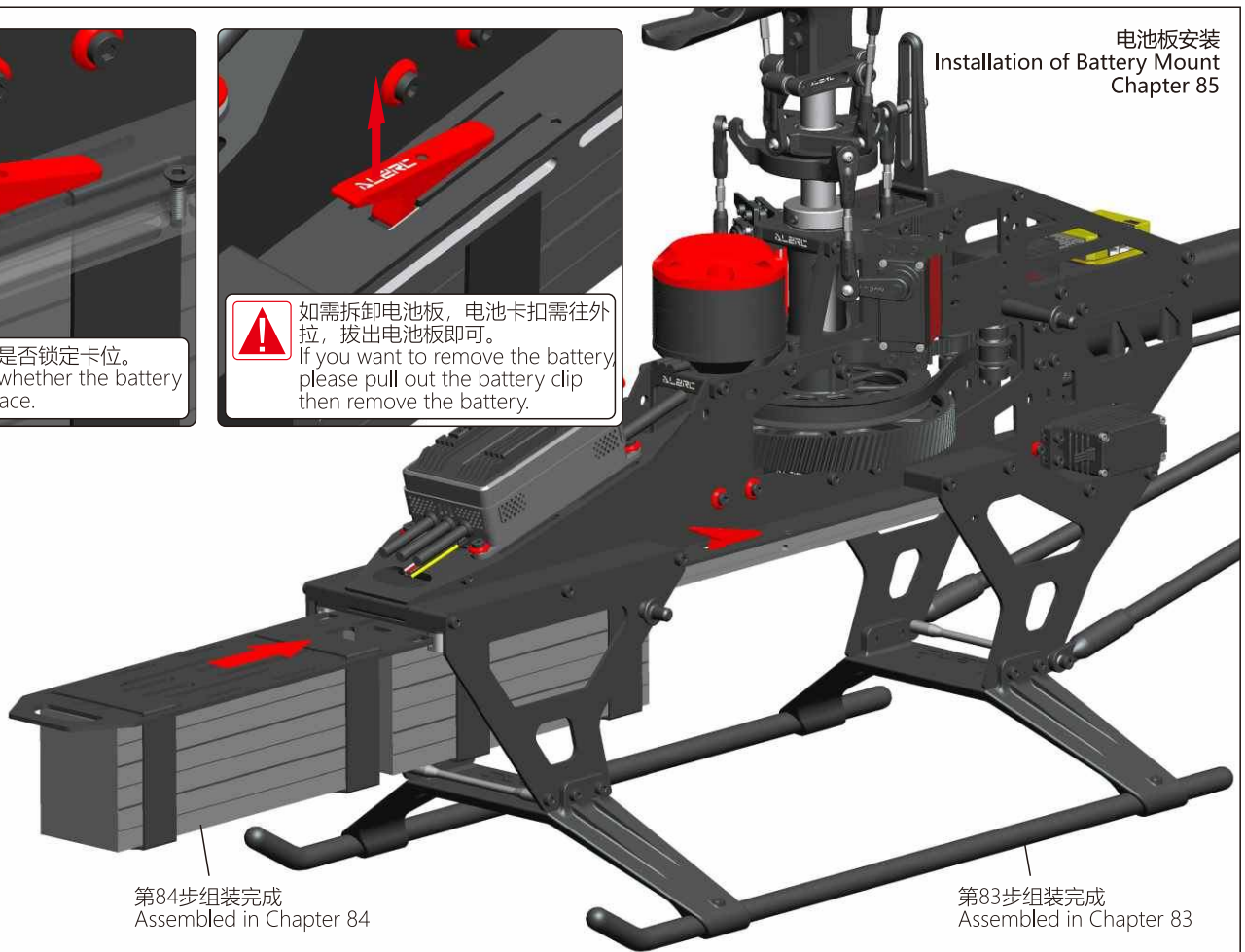
电池板安装
Installation of Battery Mount
Chapter 85



 请检查电池板是否锁定卡位。
Please check whether the battery is locked in place.



 如需拆卸电池板，电池卡扣需往外拉，拔出电池板即可。
If you want to remove the battery please pull out the battery clip then remove the battery.



第84步组装完成
Assembled in Chapter 84

第83步组装完成
Assembled in Chapter 83



飞行前的操作
OPERATIONS BEFORE FLIGHT

- 详细并格外小心设置遥控器、无刷电调及无副翼陀螺系统。
- 建议在未装主旋翼和尾旋翼的状态下，认真检查无副翼陀螺系统的正确设置。
- 检查所有线缆、插口是否安装正确。
- 检查皮带松紧度是否正常。
- 检查马达皮带轮的齿轮比，正确设置转速，为确保安全，我们建议不要超过2200转。

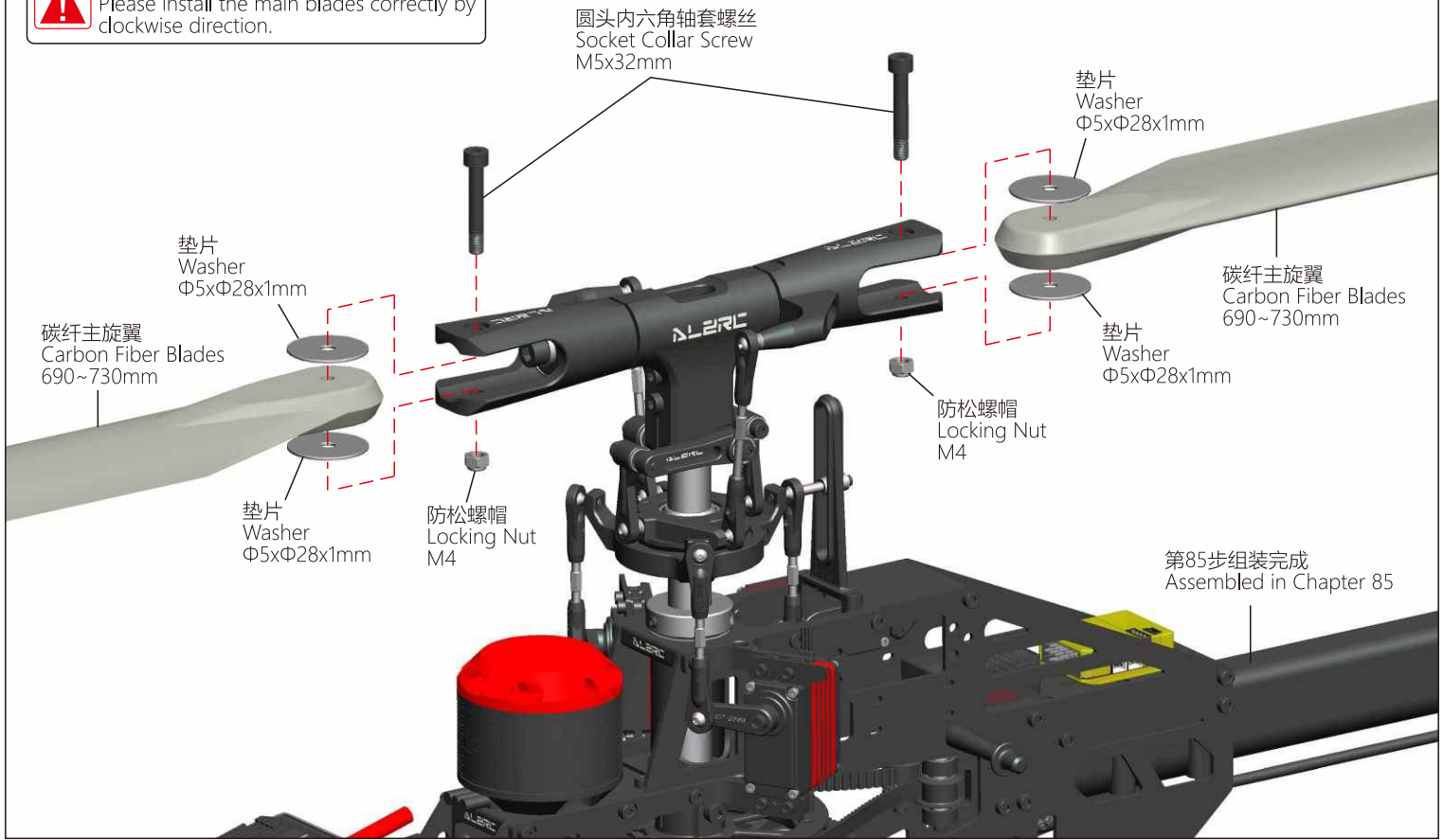
- * Set up the RC, ESC and flapless gyro system.
- * Check the setup of the flapless gyro system with utmost care under non main blade and tail blade status.
- * Check all cables and plugs to ensure it is installed correctly.
- * Check the correct tension of the tail belt.
- * Verify the motor pulley gear ratio, set up a correct revolving speed, our suggestion is do not more than 2200r/min.

NFT7-O03



请按顺时针方向正确安装主旋翼
Please install the main blades correctly by clockwise direction.

碳纤维主旋翼
Carbon Fiber Blades
Chapter 86

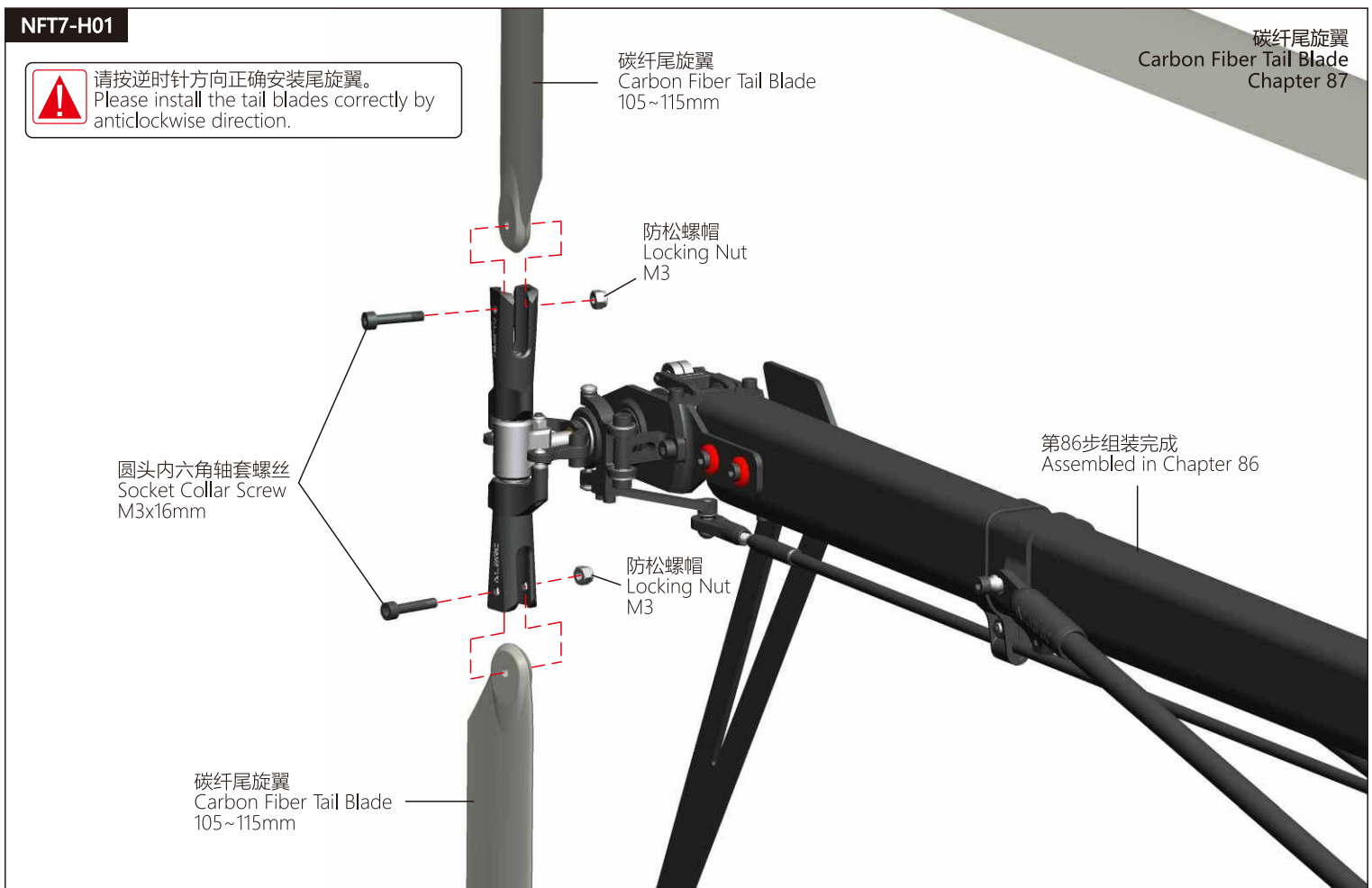


NFT7-H01

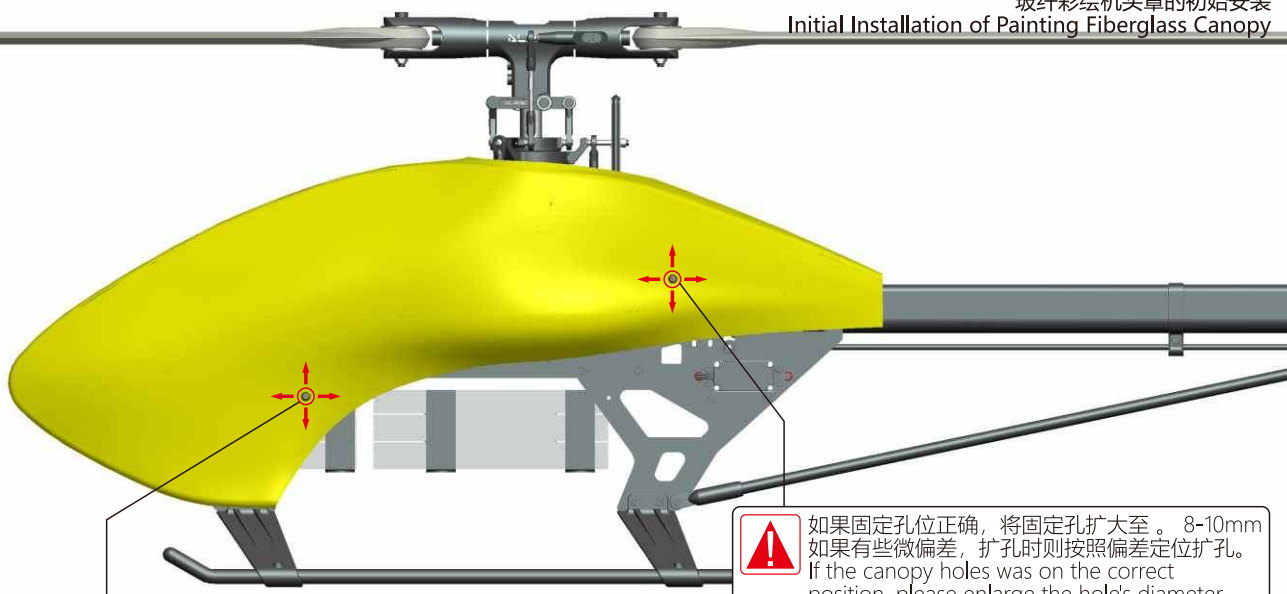


请按逆时针方向正确安装尾旋翼。
Please install the tail blades correctly by anticlockwise direction.

碳纤维尾旋翼
Carbon Fiber Tail Blade
Chapter 87



玻纤彩绘机头罩的初始安装
Initial Installation of Painting Fiberglass Canopy



! 如果固定孔位正确，将固定孔扩大至。8-10mm
如果有些微偏差，扩孔时则按照偏差定位扩孔。
If the canopy holes was on the correct position, please enlarge the hole's diameter to 8-10mm.
If there is a slight deviation, please enlarge the holes according to the deviation.

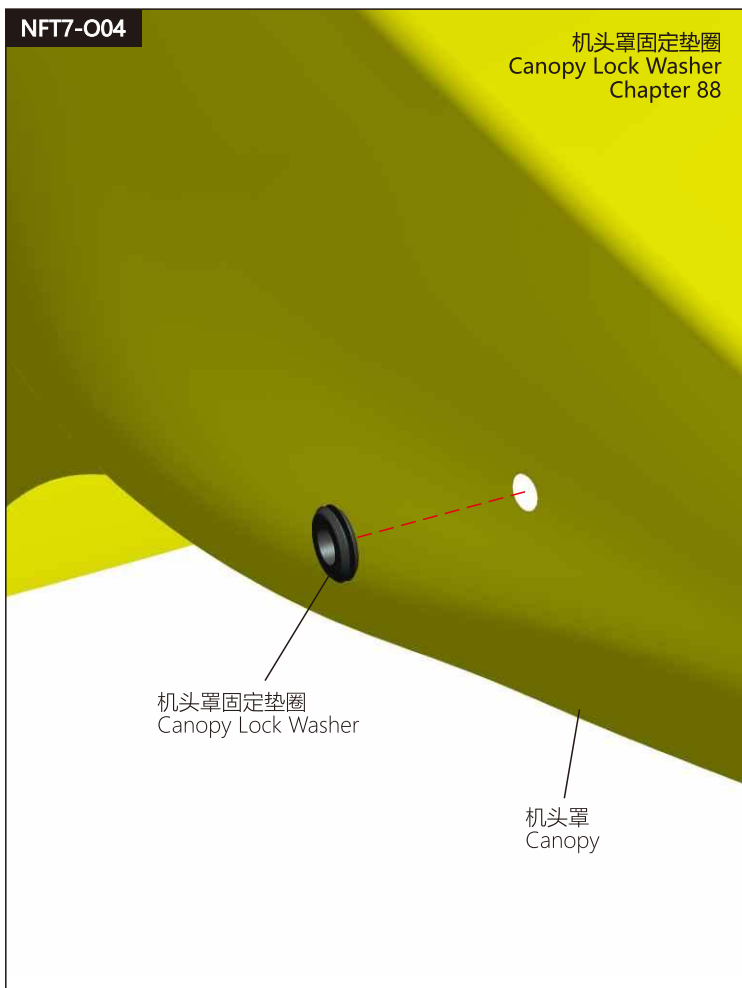
! 如果固定孔位正确，将固定孔扩大至。8-10mm
如果有些微偏差，扩孔时则按照偏差定位扩孔。
If the canopy holes was on the correct position, please enlarge the hole's diameter to 8-10mm.
If there is a slight deviation, please enlarge the holes according to the deviation.

! 玻纤配件的制造工艺会导致边缘非常锋利，我们建议用砂纸打磨边缘。
The manufacturing process of the Fiberglass parts often leaves micro-burrs edges. We recommend de-burring the edges with sand paper.

机头罩先初始安装，确认扩孔位置正确后，再进行扩孔安装机头罩固定垫圈。
Initial installation just for canopy holes position confirmation. After confirm the holes position is corrected, enlarge the 2 canopy holes, then install the washer.

NFT7-004

机头罩固定垫圈
Canopy Lock Washer
Chapter 88



机头罩固定垫圈
Canopy Lock Washer

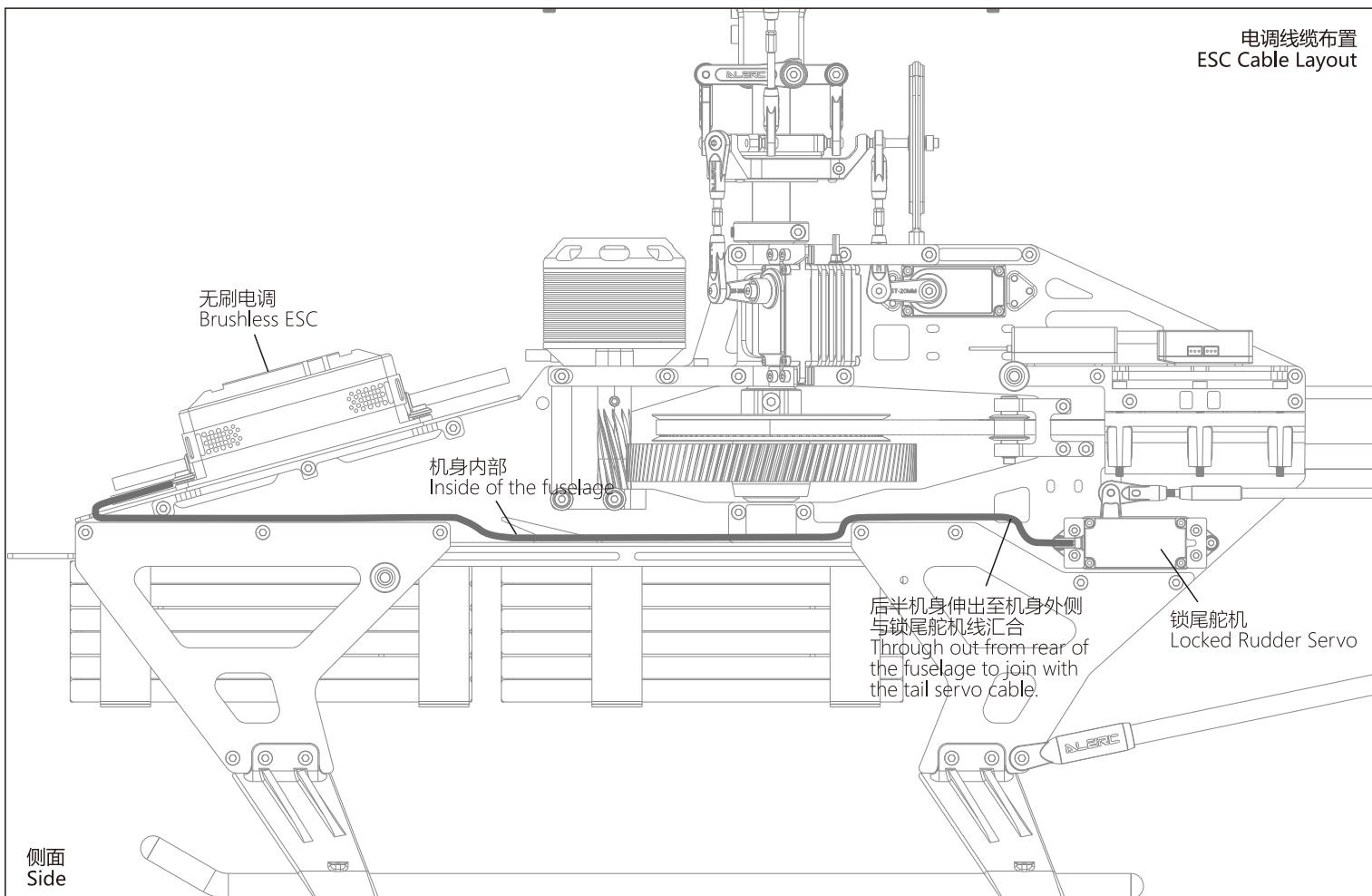
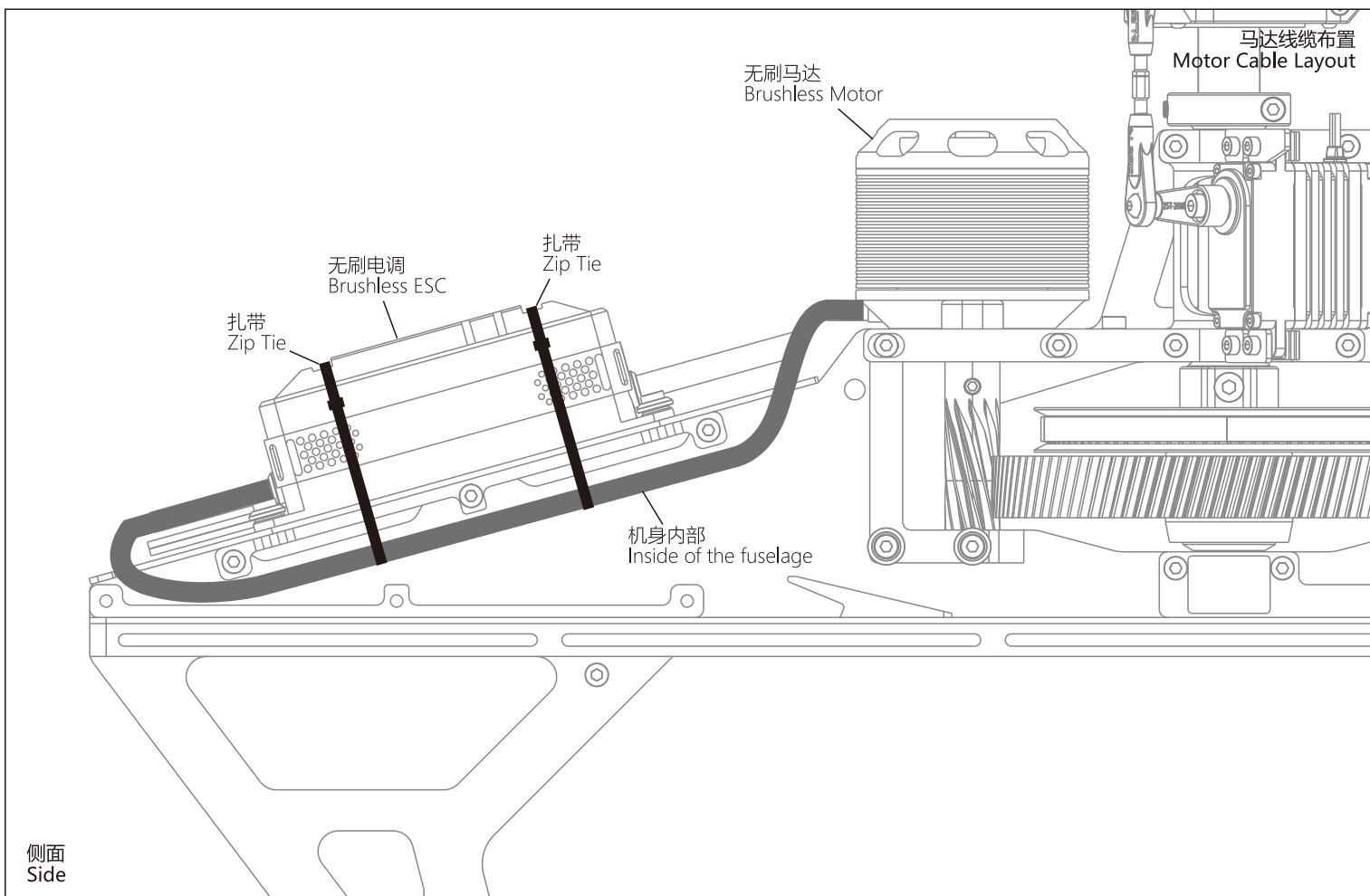
机头罩
Canopy

NFT7-004

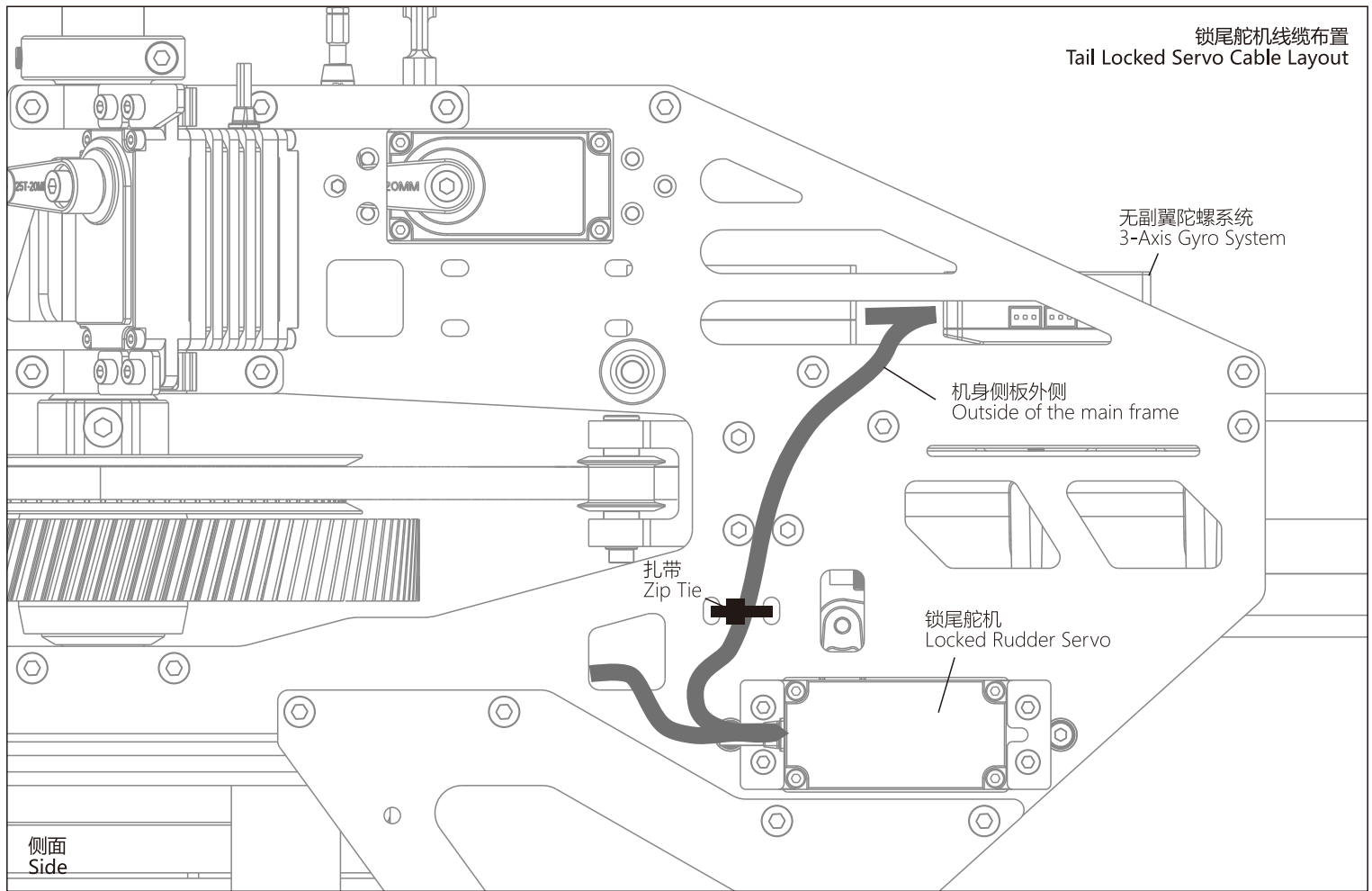
头罩固定R插
Canopy Fixed R bolt
Chapter 89



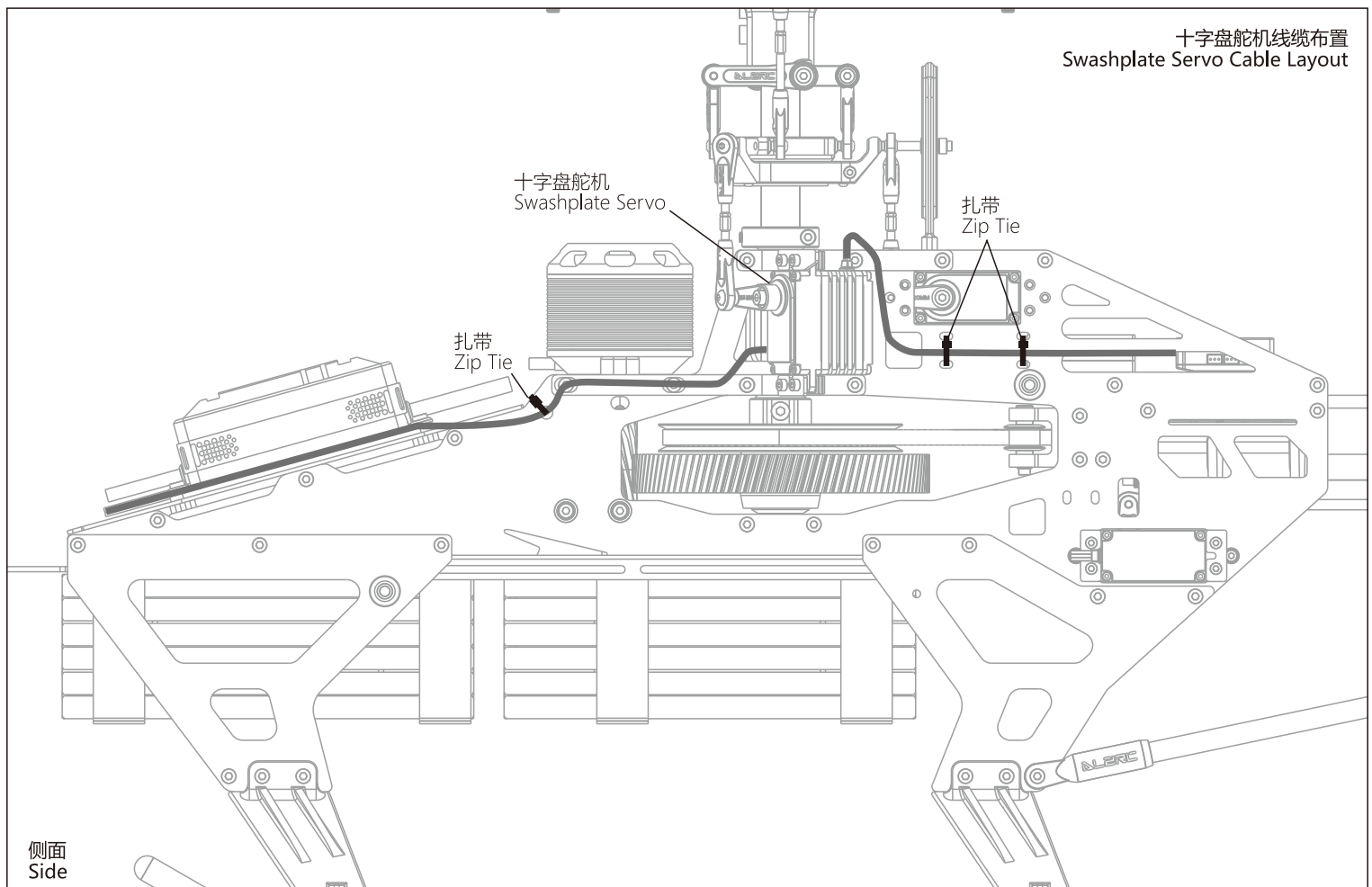
头罩固定R插
Canopy Fixed R bolt
Φ1.2x25mm



锁尾舵机线缆布置
Tail Locked Servo Cable Layout



十字盘舵机线缆布置
Swashplate Servo Cable Layout

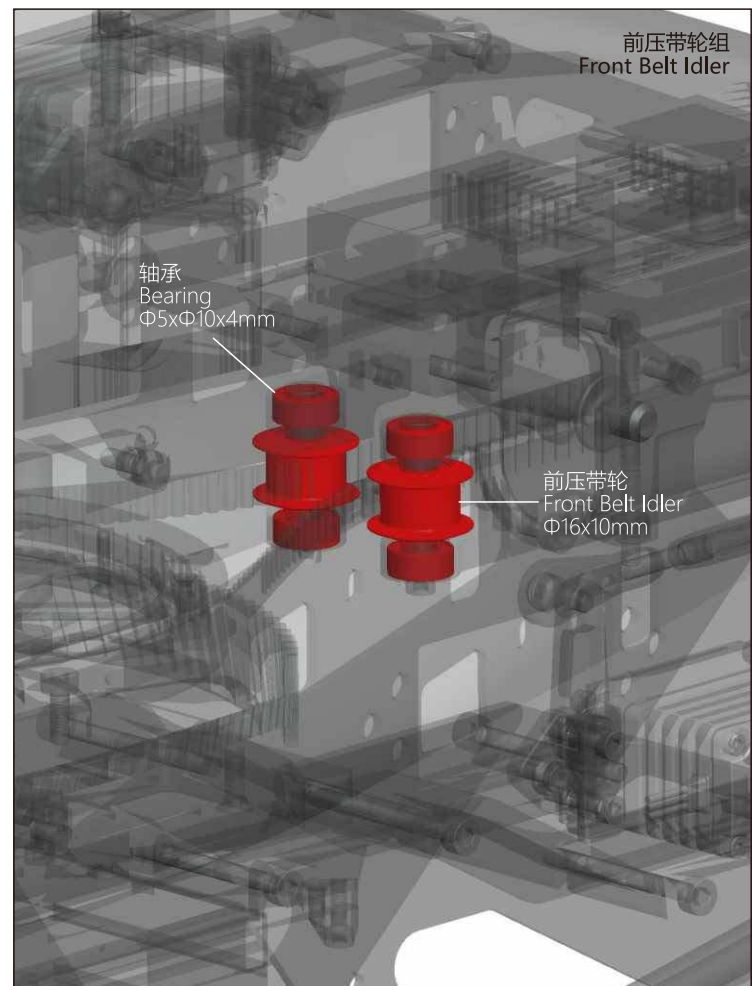
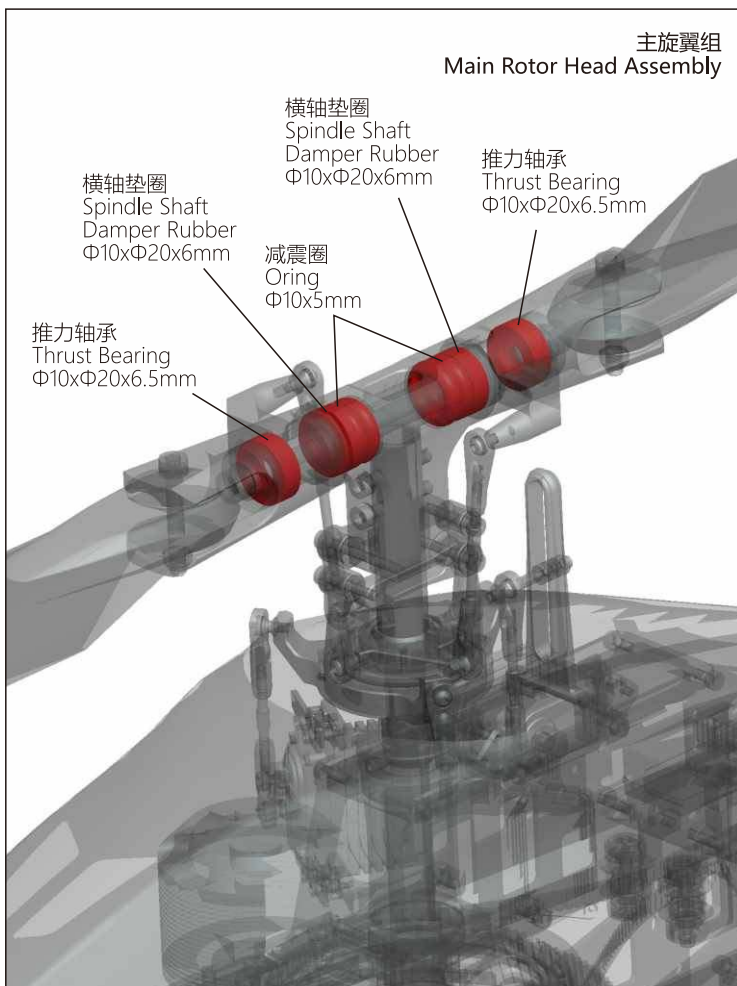


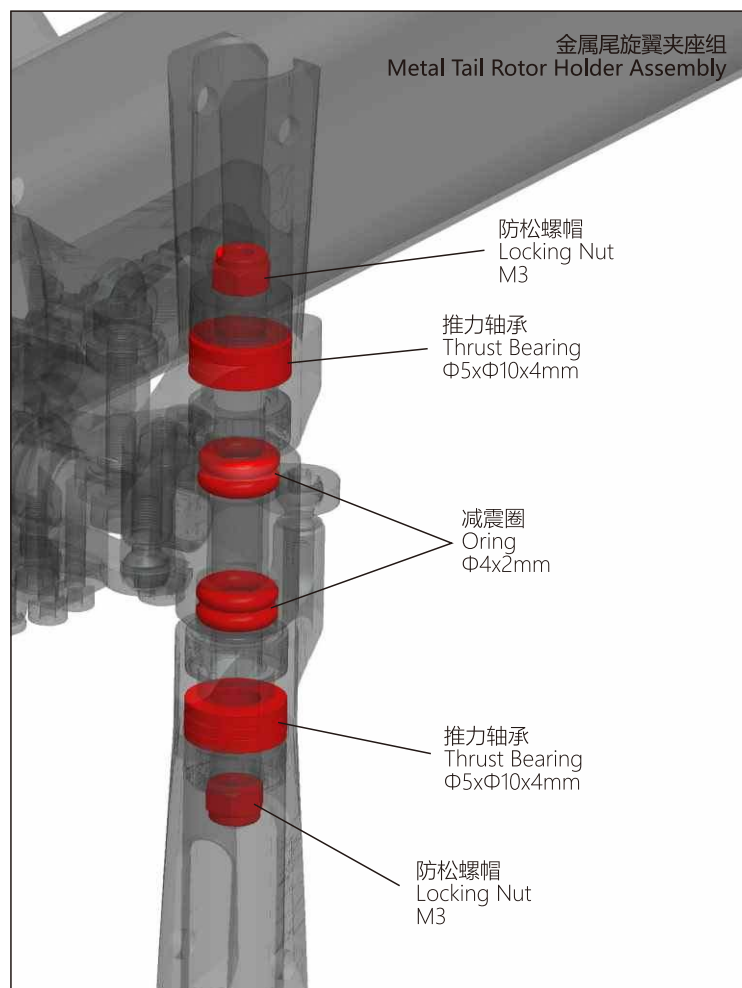
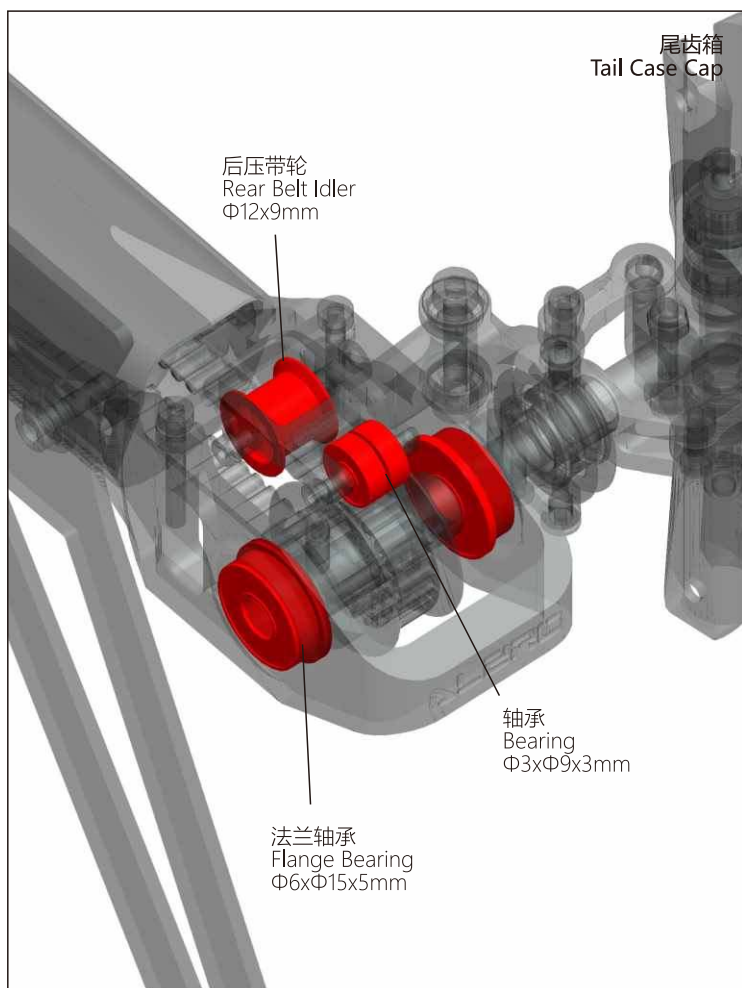
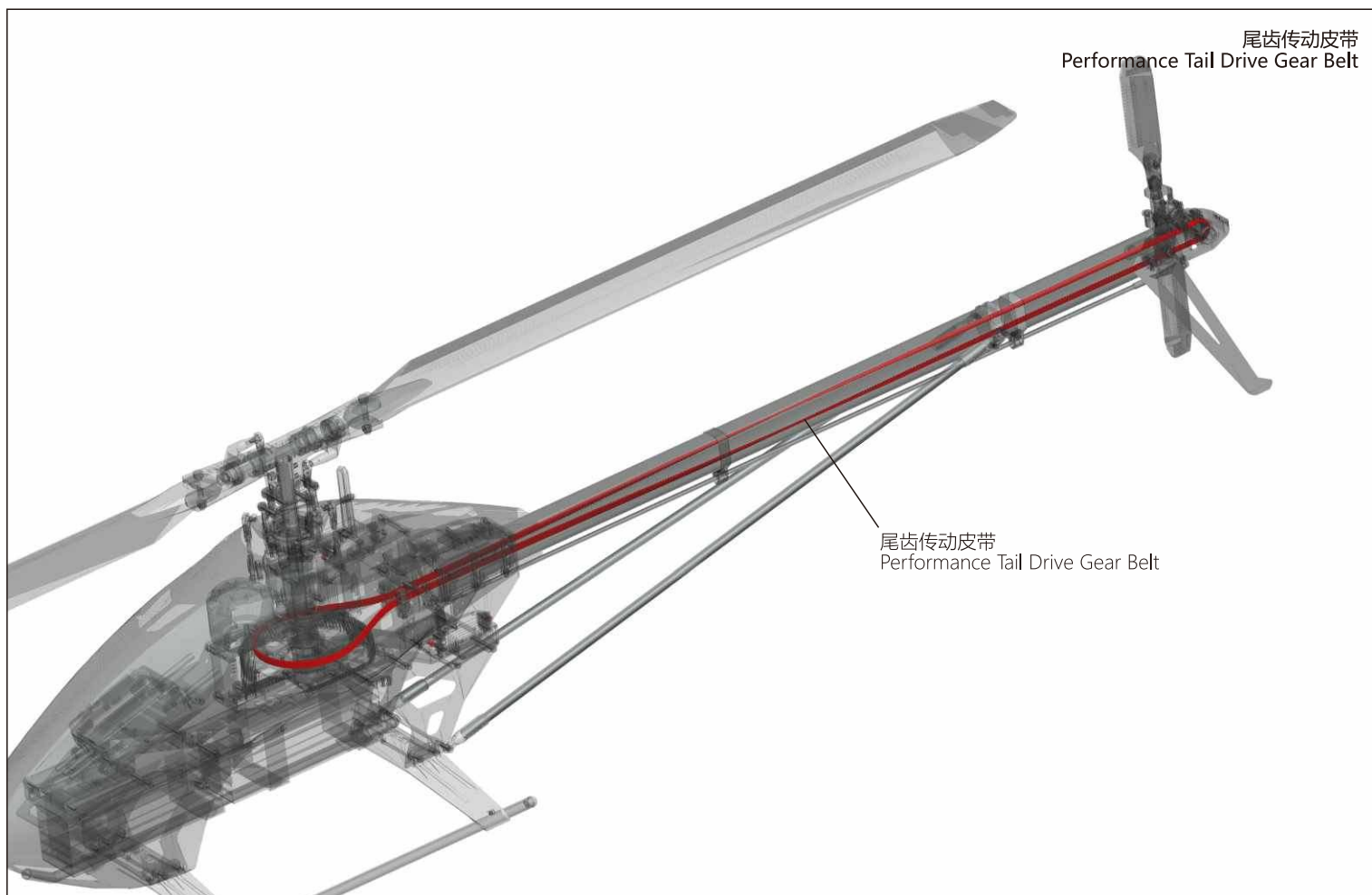
- 图中以红色所标记的零件为定期更换零件。
- 频繁飞行请检查这些红色的零件状态。这些零配件属高压，高磨损类。需要特别维护更换。
- 根据不同的飞行风格，这些零件的使用寿命周期可能因人而异。
- 一般状况下，建议每 20 次起落后检查这些零件。在基于损耗的状况下，这些零件需要在每 100 个起落后，更换一次。
- 定期检查连杆头松紧度，损耗。
- 为了确保安全，在每次飞行后，应该对直升机进行全面的例行检查。检查的部分包括：

- 传动皮带松紧度及磨损程度。
- 电缆连接插头是否松脱。
- 所有螺丝是否锁紧。

- The parts marked in red in the picture need to be replaced regularly.
- Frequent flyer please check the status of these red marked parts. These parts belong to the high pressure, high wear category. Need special maintenance and replacement.
- Depending on the flight style, the life cycle of these parts may vary from person to person.
- In general, it is recommended that these parts be checked every 20 flights. On a wastage basis, these parts need to be replaced every 100 flights.
- Regularly check the tightness and wastage of the linkage.
- In order to ensure safety, the helicopter should be fully inspected after each flight. Part of the inspection includes:

- Tightness and wear degree of the belt.
- Cable plug loose or not.
- All screws locked tight or not.





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