

**FOR T-REX 500 SCALE FUSELAGE**

# AH-1

## INSTRUCTION MANUAL

## 使用說明書



**Please read this manual carefully before assembling.  
We recommend that you keep this manual for future  
reference regarding tuning and maintenance.**

進入遙控世界之前必須告訴您許多相關的知識與注意事項，以確保您能夠在學習的過程中較得心應手。在開始操作之前，請務必詳閱本說明書，相信一定能夠給您帶來相當大的幫助，也請您妥善保管這本說明書，以作為日後參考。

### **Contents**

<b>1~2</b>	<b>PREPARATION BEFORE ASSEMBLY</b> 組裝前準備事項
<b>2</b>	<b>EQUIPMENT REQUIRED FOR ASSEMBLY</b> 自備設備
<b>3~10</b>	<b>ASSEMBLY STEPS</b> 組裝步驟

# 1. PREPARATION BEFORE ASSEMBLY 組裝前準備事項

## AH-1 scale fuselage, suitable for TREX 500 Helicopter series.

本AH-1像真機殼，適用於T-REX500遙控直昇機系列。

### Before Assembling

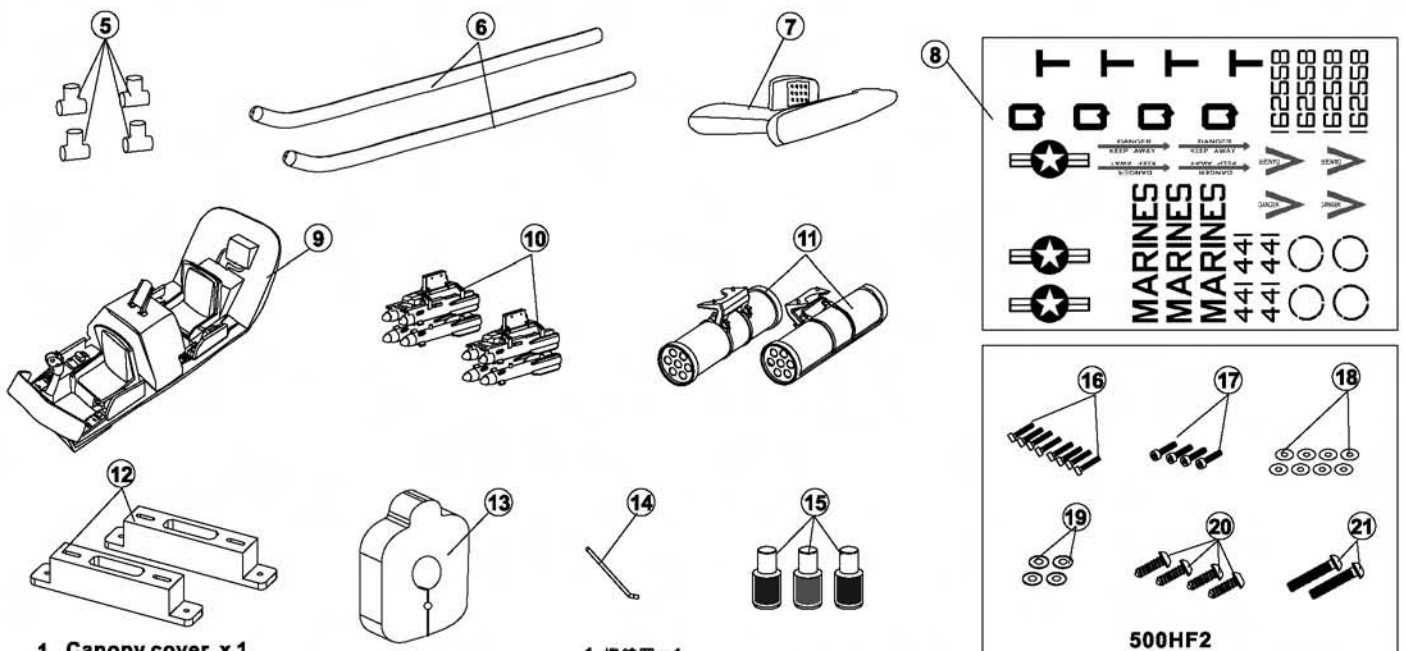
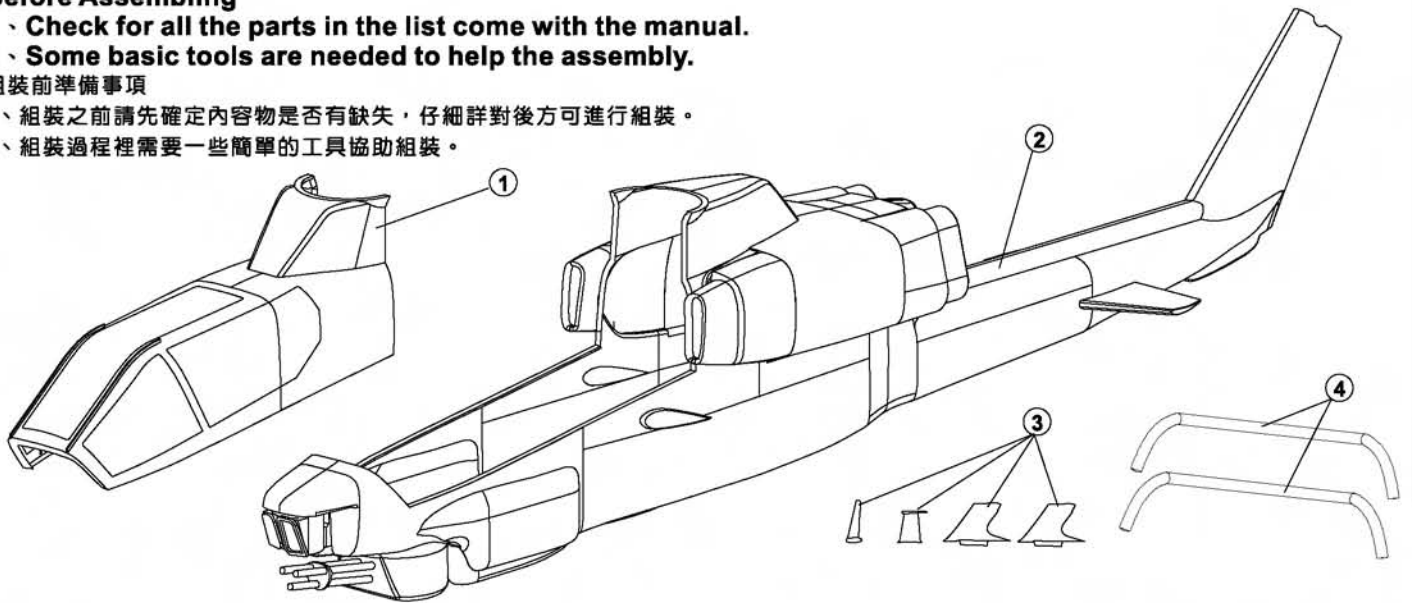
1、Check for all the parts in the list come with the manual.

2、Some basic tools are needed to help the assembly.

#### 組裝前準備事項

1、組裝之前請先確定內容物是否有缺失，仔細詳對後方可進行組裝。

2、組裝過程裡需要一些簡單的工具協助組裝。



1. Canopy cover x 1

2. Fuselage x 1

3. Antenna x 4

4. Landing skid x 2

5. Landing gear joints x 4

6. Skid pipe x 2

7. Stub wings x 2

8. Frame sticker x 1

9. Cockpit x 1

10. Tow guided missile pods x 2

11. Missile launching pad x 2

12. Fuselage frame x 2

13. Tail boom mount x 1

14. Tail skid x 1

15. Fuselage touch-up paint x 3

16. Socket screw(M2x10mm) x 8

17. Socket screw(M3x14mm) x 4

18. M2 Washer(φ 2xφ 6x0.6mm) x 8

19. M3 Washer(φ 2xφ 8x1mm) x 4

20. Socket button head self tapping screw x 4

21. Socket button head screw x 2

22. Hardware Bag x 1

23. Grease x 1

24. Long umbrella gear 15T x 2

1. 機艙蓋 x 1

2. 機殼 x 1

3. 天線配件 x 4

4. 腳架 x 2

5. 腳架鉸管固定套 x 4

6. 腳架鉸管 x 2

7. 機翼 x 2

8. 機殼貼紙 x 1

9. 機艙座 x 1

10. 火箭發射器 x 2

11. 飛彈發射器 x 2

12. 機身固定架 x 2

13. 尾管固定泡棉 x 1

14. 尾防撞桿 x 1

15. 機身修補漆 x 3

16. 圓頭內六角螺絲(M2x10mm) x 8

17. 圓頭內六角螺絲(M3x14mm) x 4

18. M2華司(φ 2xφ 6x0.6mm) x 8

19. M3華司(φ 3xφ 8x1mm) x 4

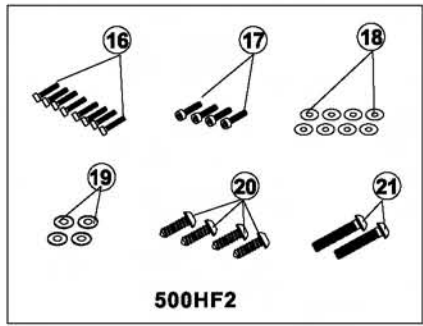
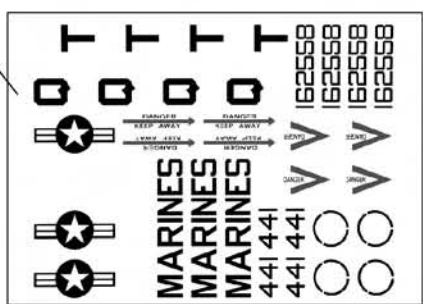
20. 半圓頭內六角自攻螺絲(T2.6x8mm) x 4

21. 半圓頭內六角螺絲(M2.5x14mm) x 2

22. 螺絲備件包 x 1

23. 潤滑油 x 1

24. 尾輪傳長齒15T x 2



### Tool 自備工具

- |                           |        |
|---------------------------|--------|
| 1、Cutter knife            | 1、美工刀  |
| 2、Hexagon screw driver    | 2、六角起子 |
| 3、Phillips screw driver   | 3、十字起子 |
| 4、File                    | 4、銼刀   |
| 5、Diagonal cutting pliers | 5、斜口鉗  |
| 6、Fine sandpaper          | 6、細砂紙  |
| 7、CA glue                 | 7、瞬間膠  |
| 8、AB glue                 | 8、AB膠  |
| 9、Scissors                | 9、剪刀   |

# 1. PREPARATION BEFORE ASSEMBLY 組裝前準備事項

<p><b>500HB4</b></p>	<p><b>500HT8</b></p>
<p>1. Fiberglass main frames (R/L) x 2                  2. Tail boom (φ 15xφ 16x152mm) x 1                  3. Torque tube (154mm) x 1                  4. Linkage rod (B) (φ 2x180mm) x 1                  5. Plate x1                  6. Torque tube drive gear assembly x 1                  7. Angled tail transmission assembly x 1                  8. Tail rotor control arm x 1                  9. Linkage ball A (T2.6x3.5) x 2                  10. Collar screw x 1                  11. Ball link x 4                  12. Washer (φ 2xφ 3.6x0.5mm) x 2</p>	<p>1. 玻璃左右主體側板 x 2                  2. 短尾管(φ 15xφ 16x152mm) x 1                  3. 尾傳動軸桿(154mm) x 1                  4. 尾舵連桿B(φ 2x180mm) x 1                  5. 尾齒箱 x 1                  6. 尾傳動導輪軸組 x 1                  7. 尾彎管固定座組 x 1                  8. 尾旋翼控制臂組 x 1                  9. 球頭A(T2.6x3.5) x 2                  10. 軸套螺絲(M2x12mm) x 1                  11. 連桿頭 x4                  12. 華司(φ 2xφ 3.6x0.5mm) x 2</p>

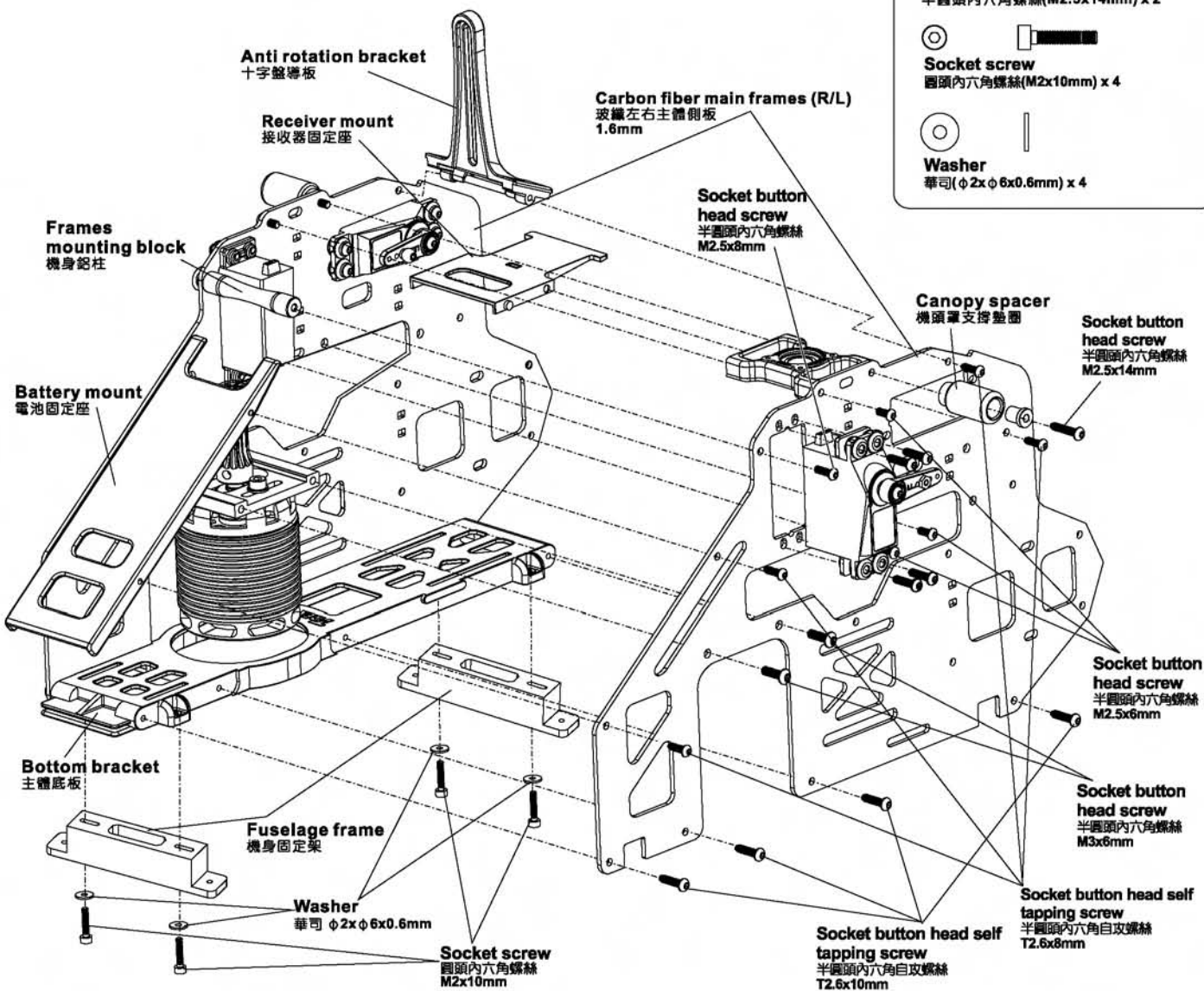
# 2. EQUIPMENT REQUIRED FOR ASSEMBLY 自備設備

<p><b>T-REX500 FL Main rotor head set T-REX500 FL主旋翼頭組</b></p>	<p><b>T-REX500 Main rotor head set T-REX500 主旋翼頭組</b></p>	<p><b>Torque tube (467mm) 尾傳動軸桿(467mm)</b></p> <p><b>Tail boom (φ 15xφ 16x461mm) 尾管(φ 15xφ 16x461mm)</b></p> <p><b>Rudder control rod (φ 1.96x406mm) 尾舵控制連桿(φ 1.96x406mm)</b></p>			
<p><b>Main drive gear set 主齒輪組</b></p>	<p><b>Bottom bracket 主體底板</b></p>	<p><b>Battery mount 電池固定座</b></p>	<p><b>Tail servo mount 尾伺服器固定座</b></p>	<p><b>Tail boom mount assembly 軸傳尾管固定座組</b></p>	<p><b>Tail Rotor Holder 尾旋翼夾座組</b></p>
<p><b>Carbon fiber blade x2 碳纖維旋翼 x2</b></p> <p><b>Carbon fiber tail blade x2 碳纖維尾旋翼 x2</b></p>		<p><b>Metal bearing holder x2 金屬主軸固定座 x2</b></p>	<p><b>Receiver mount 接收器固定座</b></p>	<p><b>Canopy spacer x2 機頭罩支撐墊圈 x2</b></p> <p><b>Frames mounting block 機身鉛柱</b></p>	<p><b>Anti rotation bracket 十字盤導板</b></p>
<p><b>3GX Flybarless system 3GX無平衡翼系統組</b></p> <p>or 或</p> <p><b>GP790 Herd Lock Gyro GP790 鎖定式陀螺儀</b></p>		<p><b>Motor 馬達組</b></p>	<p><b>Servo DS510 x3 伺服器</b></p> <p><b>Servo DS520 x1 伺服器</b></p>	<p><b>ESC 電子調速器</b></p>	<p><b>Battery 電池</b></p>

### 3. ASSEMBLY SECTION 組裝步驟

Please exchange the frames into the T-REX 500 fuselage glass frames included in the package  
請將原T-REX 500機身側板更換上隨附的玻纖側板。

## 500HF2



**Socket button head self tapping screw**  
半圓頭內六角自攻螺絲(T2.6x8mm) x4

**Socket button head screw**  
半圓頭內六角螺絲(M2.5x14mm) x 2

**Socket screw**  
圓頭內六角螺絲(M2x10mm) x 4

**Washer**  
華司(φ2xφ6x0.6mm) x 4

**CAUTION**  
注意

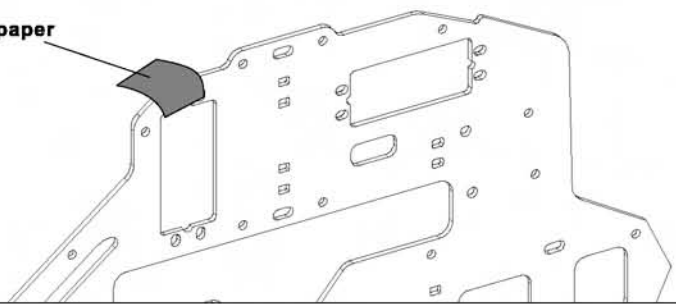
When tightening a screw to a plastic part, please tighten it firmly, but not over tightened, or they will strip.  
螺絲鎖入塑膠件請務必注意，適當扭力鎖緊即可，而過緊的扭力可能會導致滑牙。

If any part is already assembled by factory, please check again if screws are firmly secured and applied with some glue.  
原廠零件出廠包裝如果是組裝品，請需再確認各螺絲是否鎖緊上膠。

Apply a little amount of T43 thread lock when fixing a metal part.  
螺絲鎖附於金屬件請使用適量T43(螺絲膠)

Recommend sanding the marked position with a waterproof abrasive paper(#800~1000) as below illustration to avoid the wires of electric parts to be cut.  
建議於下面色塊標示處，可使用#800~1000水砂紙打磨，可防止電子設備電線被割破。

**Waterproof abrasive paper**  
水砂紙



### 3. ASSEMBLY SECTION 組裝步驟

#### 500HT8



**Bearing**  
軸承(φ4xφ9x4mm) x 2



**Bearing**  
軸承(φ8xφ12x2.5mm) x 2



**Socket button head screw**  
半圓頭內六角螺絲(M2.5x5mm) x 1



**Washer**  
華司φ2.6xφ5.8x0.6mm



**When tightening a screw to a plastic part, please tighten it firmly, but not over tightened, or they will strip.**

螺絲鎖入塑膠件請務必注意，適當扭力鎖緊即可，而過緊的扭力可能會導致滑牙。

**For original manufactory package, if the product is already assembled by Factory, please check again if screws are firmly secured and applied with some glue.**

原廠零件出廠包裝如果是組裝品，請需再確認各螺絲是否鎖緊上膠。

**Socket button head screw**  
半圓頭內六角螺絲M2.5x5mm

**Washer**  
華司φ2.6xφ5.8x0.6mm

**Drive gear**  
尾傳動小齒

**Torque tube drive gear assembly**  
軸傳尾傳動導輪軸組

**Bearing**  
軸承φ4xφ9x4mm

**Tail boom mount(L)**  
軸傳尾管固定座(左)

**Tail boom mount(R)**  
軸傳尾管固定座(右)

**Hexagonal bolt**  
六角鉚柱

**Bearing**  
軸承φ8xφ12x2.5mm

**Long umbrella gear**  
軸傳長傘齒φ18.5xφ8x25.4mm

**Bearing**  
軸承φ8xφ12x2.5mm

**Long umbrella gear**  
軸傳長傘齒φ18.5xφ8x25.4mm

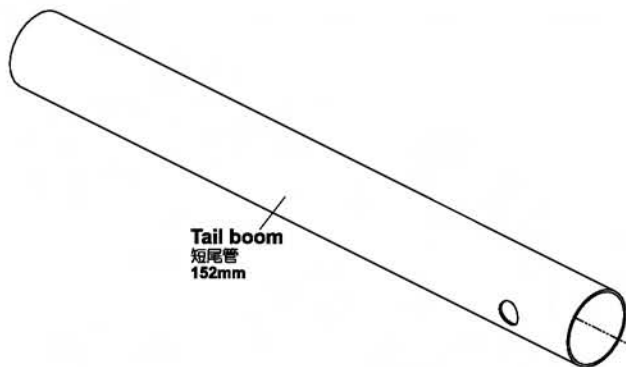
**Bearing**  
軸承φ8xφ12x2.5mm

**Long umbrella gear**  
軸傳長傘齒φ18.5xφ8x25.4mm

**Bearing**  
軸承φ8xφ12x2.5mm

**Long umbrella gear**  
軸傳長傘齒φ18.5xφ8x25.4mm

**Apply a little amount of T43 thread lock when fixing a metal part.**  
螺絲鎖附於金屬件請使用適量T43(螺絲膠)



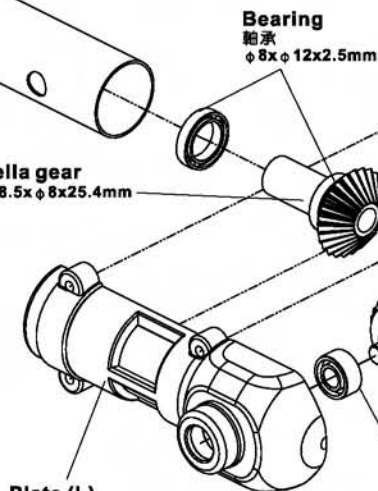
**Tail boom**  
短尾管  
152mm

**Bearing**  
軸承  
φ8xφ12x2.5mm

**Long umbrella gear**  
軸傳長傘齒 φ18.5xφ8x25.4mm

**Socket button head self tapping screw**  
半圓頭內六角自攻螺絲  
T2.6x8mm

**Plate (R)**  
尾齒箱(右)  
φ16x73x24mm



**Plate (L)**  
尾齒箱(左)  
φ16x73x24mm

**Bearing**  
軸承  
φ4xφ9x4mm

**Tail rotor shaft assembly**  
軸傳尾橫軸組

#### 500HT8



**Bearing**  
軸承(φ4xφ9x4mm) x 2



**Bearing**  
軸承(φ8xφ12x2.5mm) x 2



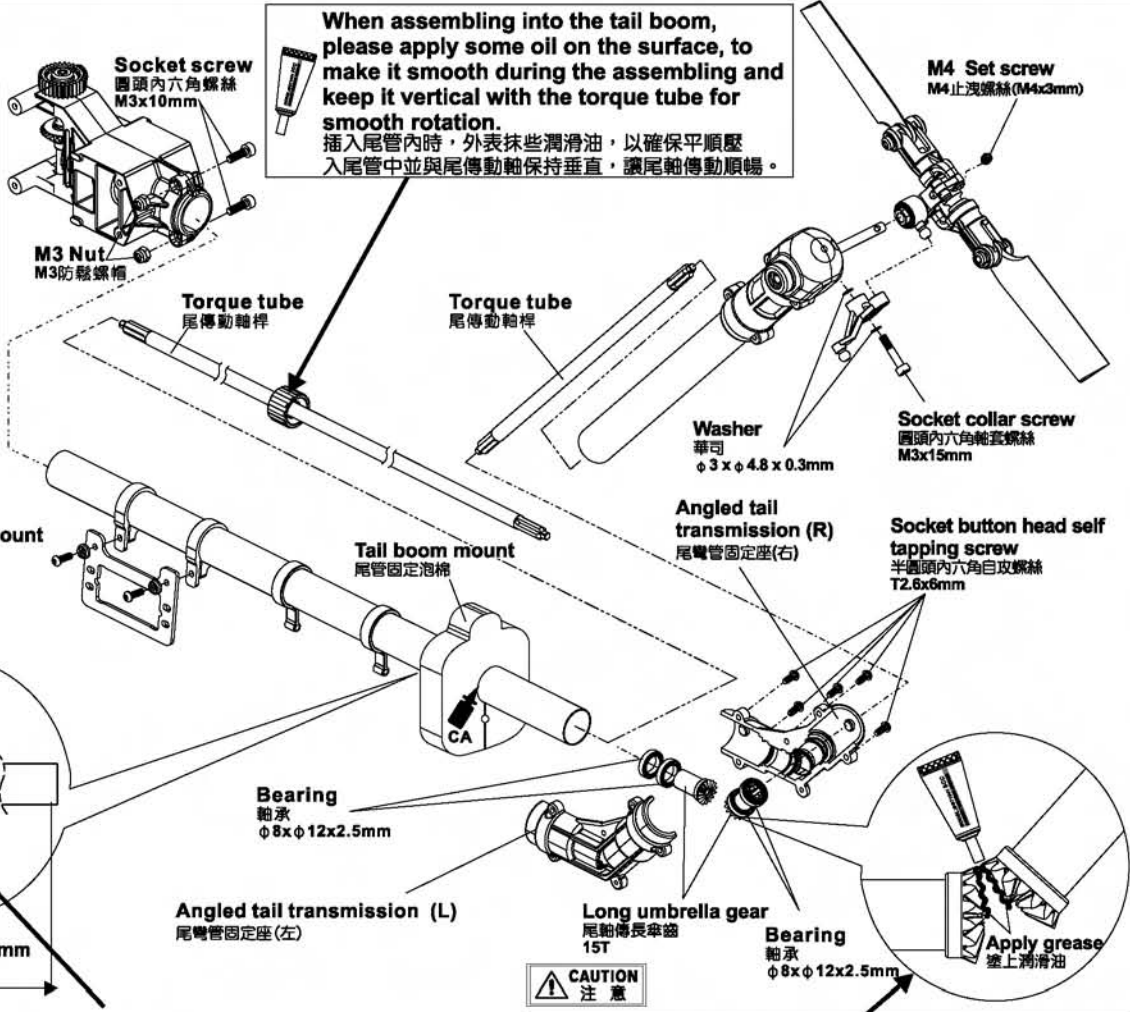
**Socket button head self tapping screw**  
半圓頭內六角自攻螺絲  
(T2.6x8mm) x 5



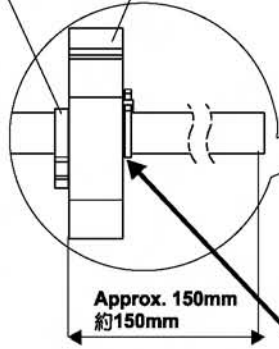
### 3. ASSEMBLY SECTION 組裝步驟

#### 500HT8

- Bearing**  
軸承(φ8xφ12x2.5mm) x 4
- Socket button head screw**  
半圓頭內六角自攻螺絲(T2.6x6mm) x 5



When assembling into the tail boom, please apply some oil on the surface, to make it smooth during the assembling and keep it vertical with the torque tube for smooth rotation.  
插入尾管內時，外表抹些潤滑油，以確保平順壓入尾管中並與尾傳動軸保持垂直，讓尾軸傳動順暢。



Suggest to use nylon strap to fasten the pipe mount.  
建議：可使用束線帶固定泡棉

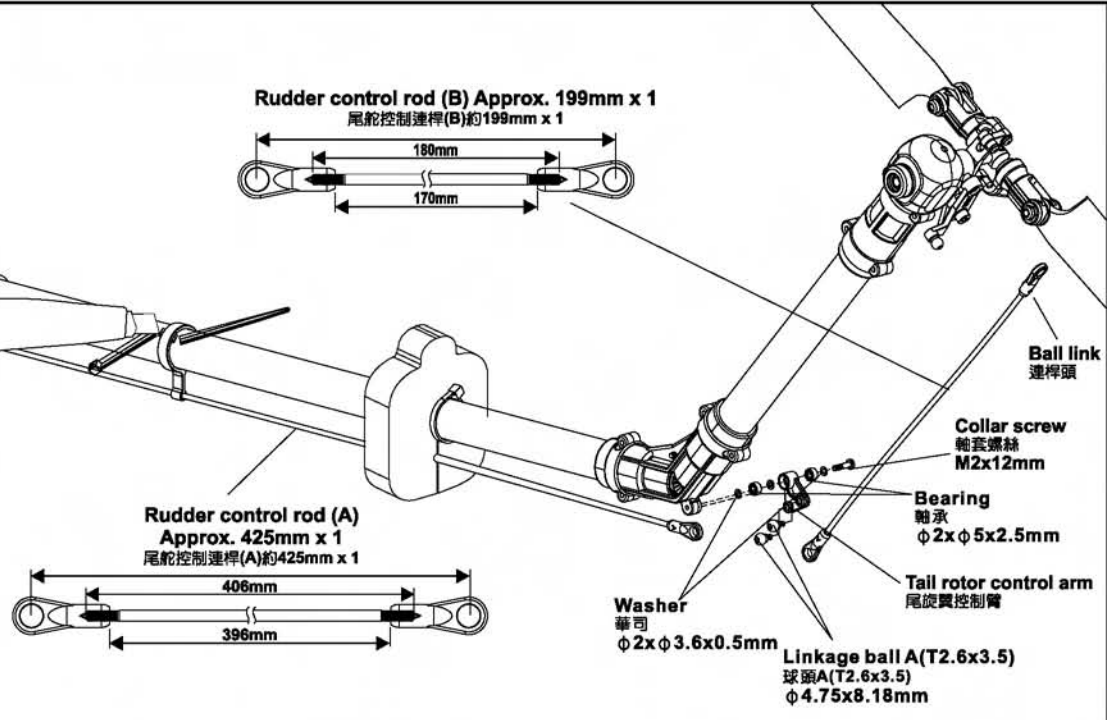
**CAUTION**  
注意

Improper assembly for angled tail transmission assembly will affect the smoothness and life time of the umbrella gear.  
Please always check if the umbrella gear is wore or deformed regularly and replace any damaged parts.  
軸傳尾彎管組立不當會影響傘齒順暢度與壽命。請定期檢查傘齒是否異常磨損或變形，並立即更換受損之零件。

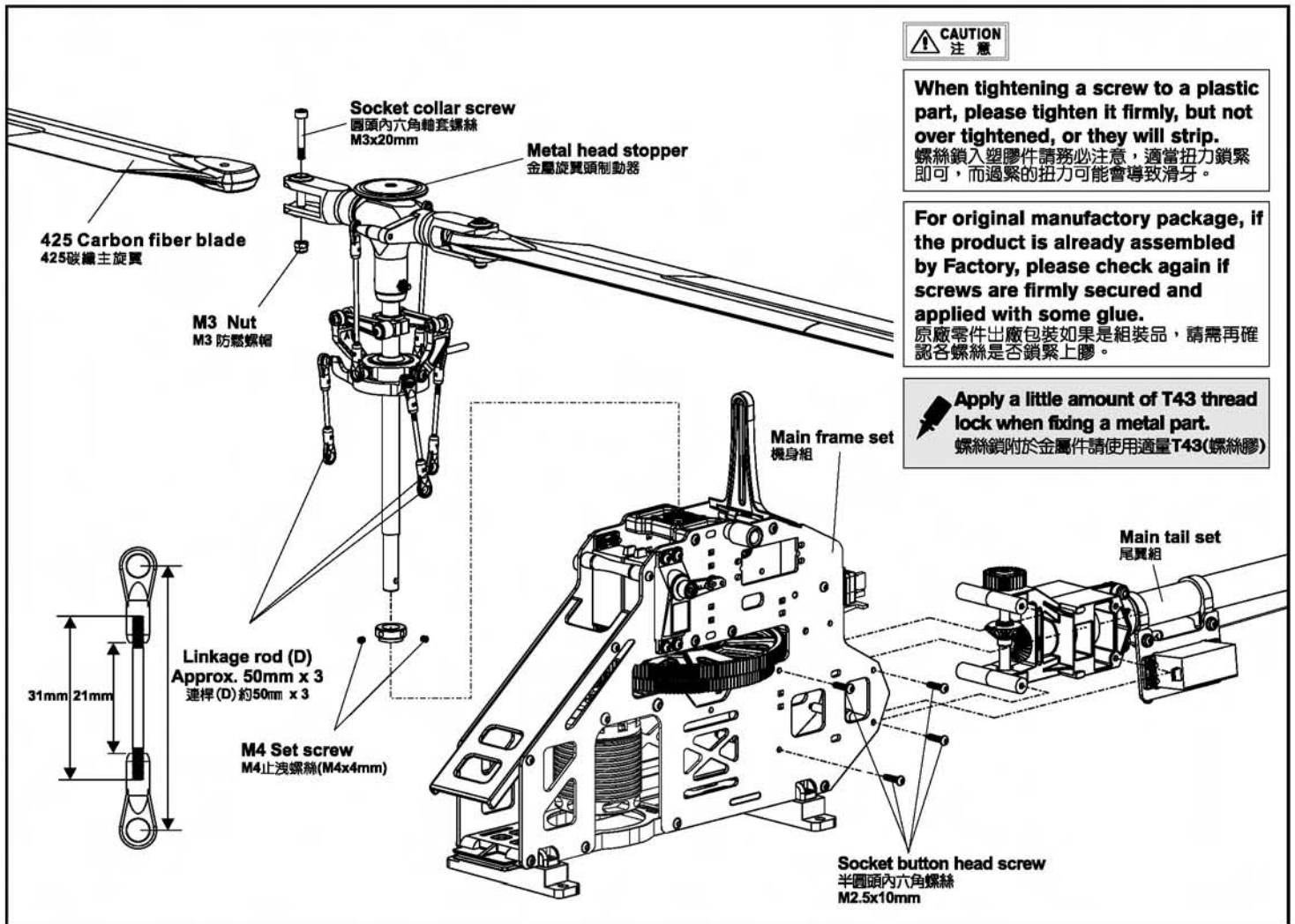
Apply a little amount of T43 thread lock when fixing a metal part.  
螺絲鎖附於金屬件請使用適量T43(螺絲膠)

#### 500HT8A

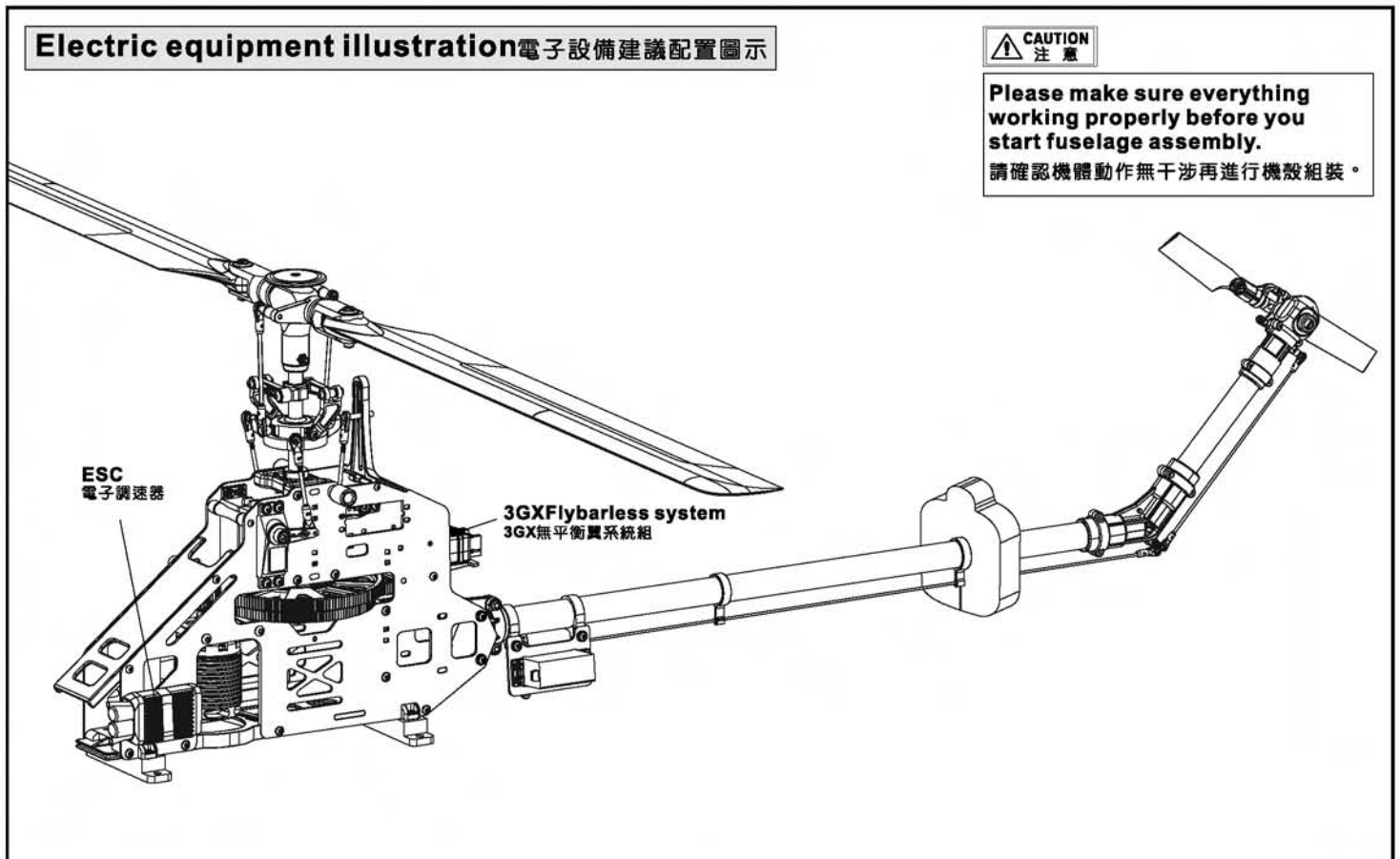
- Washer**  
華司(φ2xφ3.6x0.5mm) x 2
- Collar screw**  
軸套螺絲(M2x12mm) x 1
- Linkage ball A**  
球頭A(φ4.75x8.18mm) x 2



### 3. ASSEMBLY SECTION 組裝步驟



### Electric equipment illustration 電子設備建議配置圖示

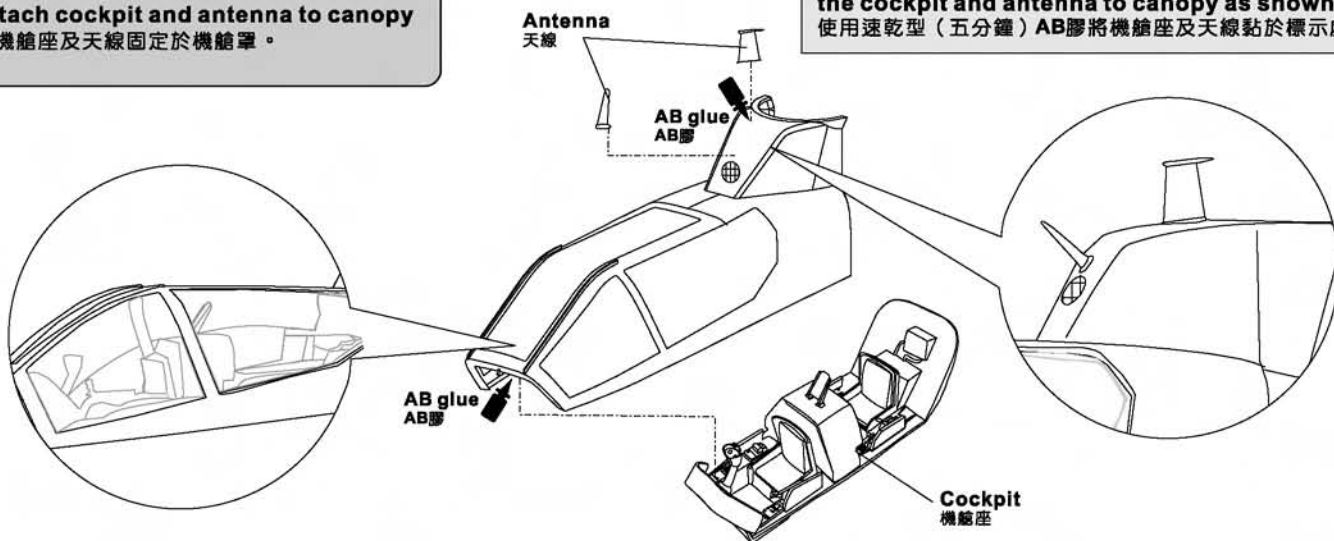


### 3. ASSEMBLY SECTION 組裝步驟

#### Step1. 步驟1

Attach cockpit and antenna to canopy  
將機艙座及天線固定於機艙罩。

Please use ( 5 minutes ) epoxy to glue  
the cockpit and antenna to canopy as shown .  
使用速乾型 ( 五分鐘 ) AB膠將機艙座及天線黏於標示處

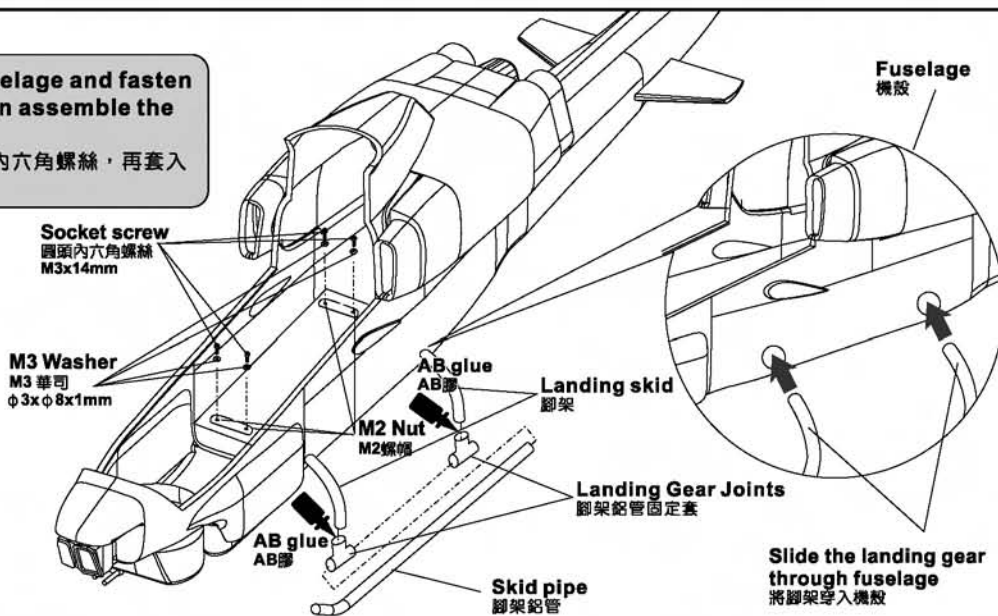
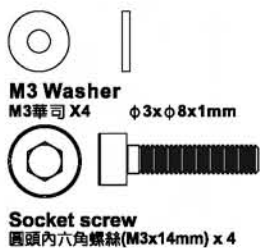


#### Step2. 步驟2

Slide the landing gear through fuselage and fasten  
with M3x14mm socket screw. Then assemble the  
joint and aluminum tube.

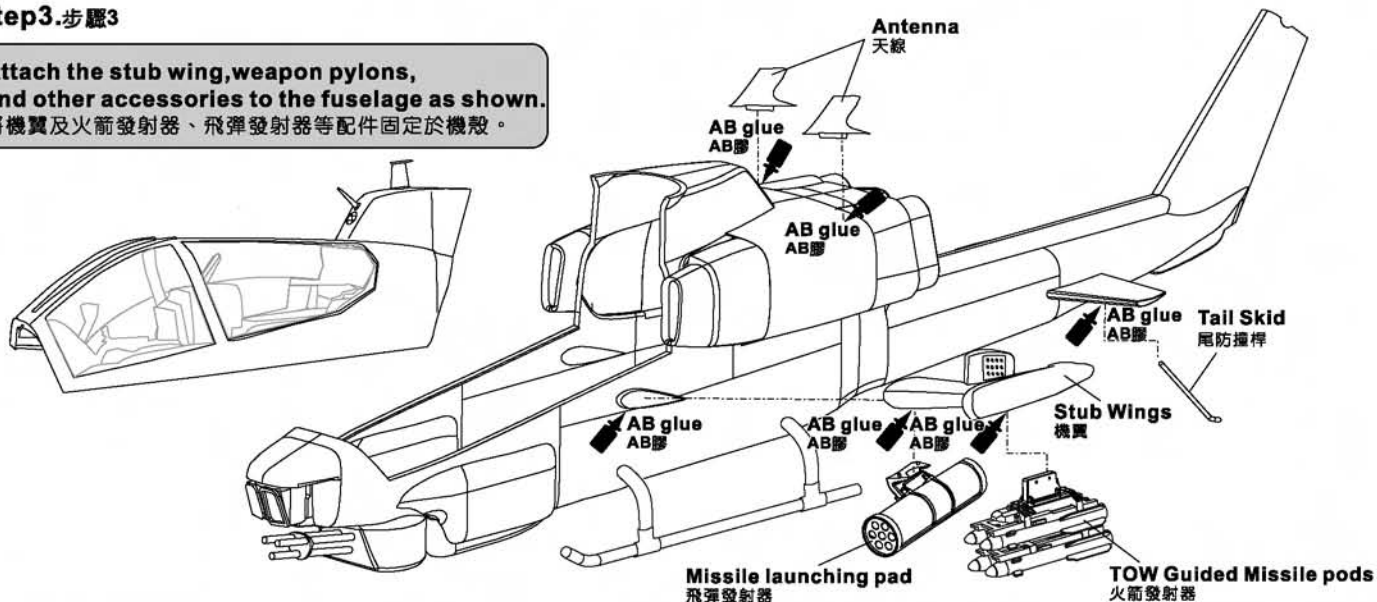
將腳架穿入機殼後，鎖附M3x14mm圓頭內六角螺絲，再套入  
腳架鋁管固定套及腳架鋁管。

#### 500HF2



#### Step3. 步驟3

Attach the stub wing, weapon pylons,  
and other accessories to the fuselage as shown.  
將機翼及火箭發射器、飛彈發射器等配件固定於機殼。



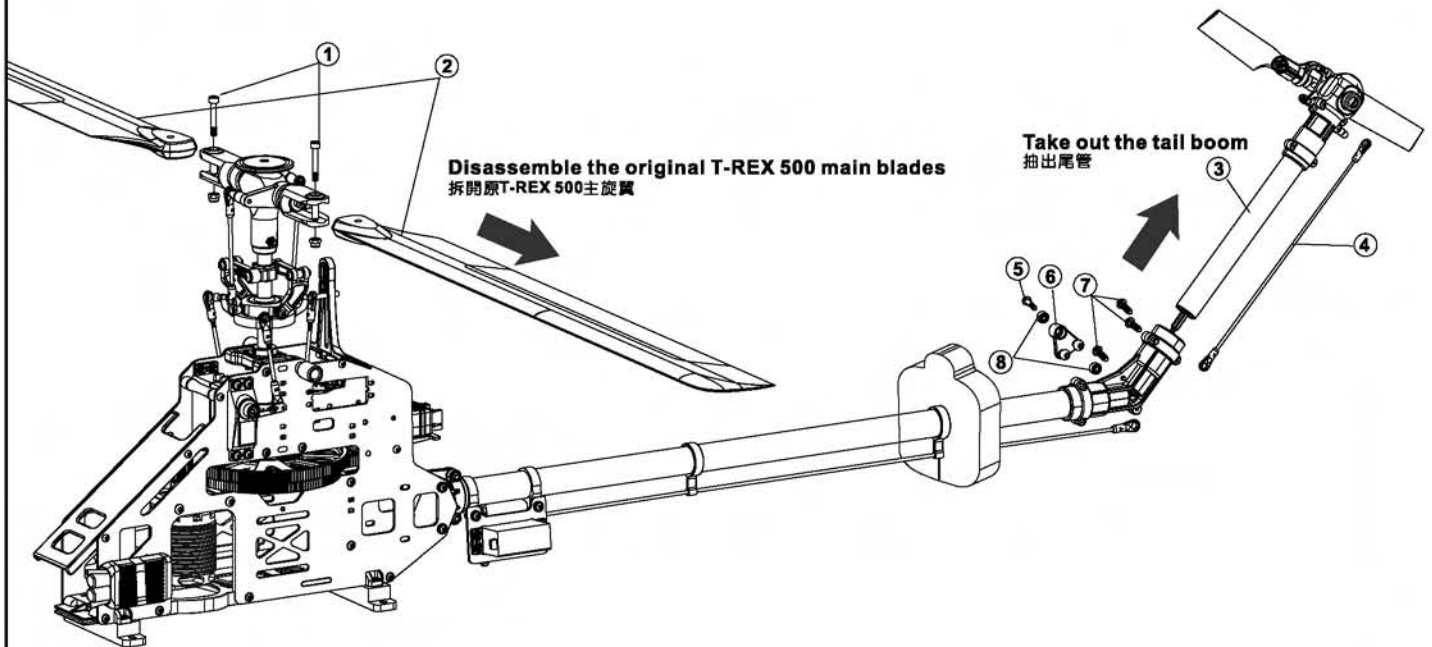


### 3. ASSEMBLY SECTION 組裝步驟

#### Step4. 步驟4

Please disassemble the parts of T-REX500 that indicated from ① to ⑧ before putting the main frame into the scale fuselage for easier assembly.

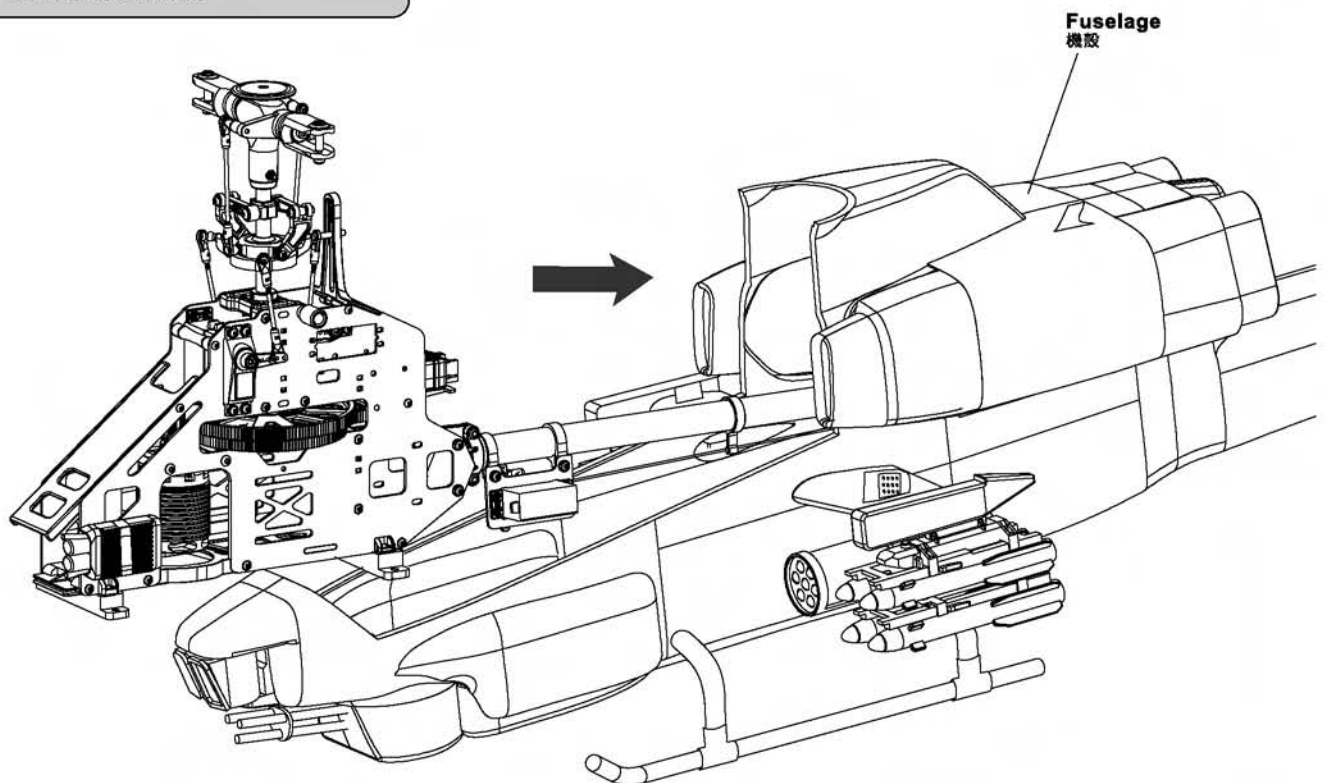
機身要裝入像真機殼前，請先拆除原T-REX500標示①至⑧零件，以便穿入像真機殼。



#### Step5. 步驟5

Insert the T-REX500 into the fuselage.

將T-REX500裝入像真機殼內。

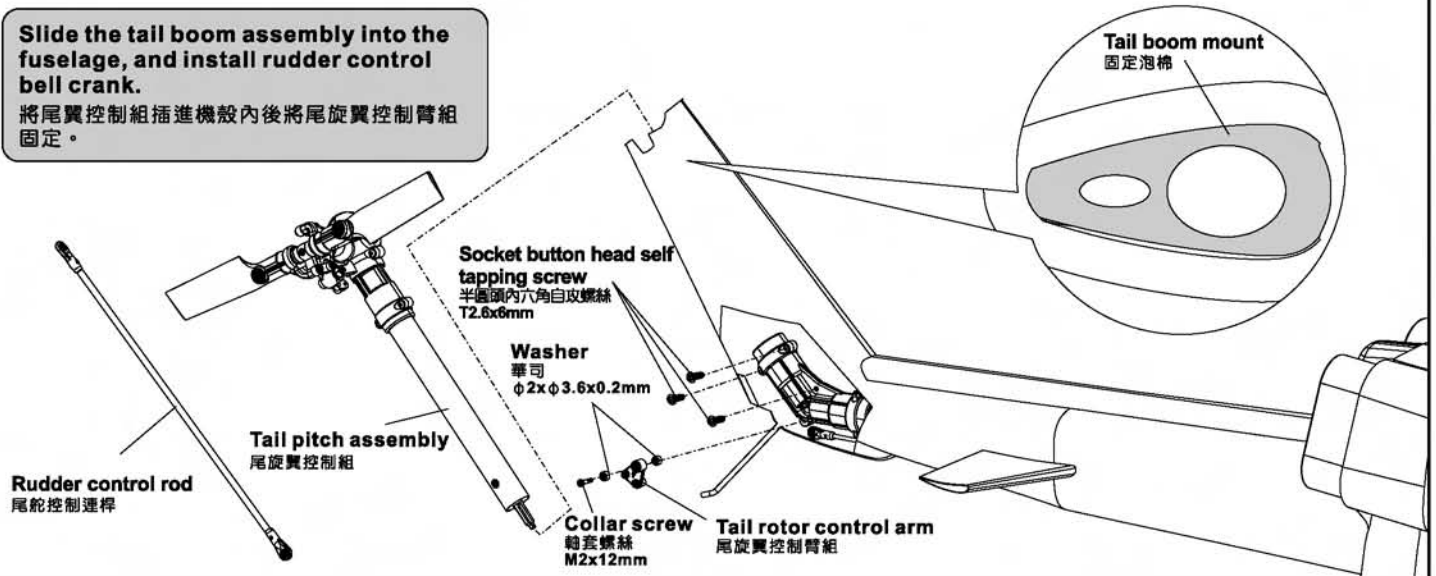


### 3. ASSEMBLY SECTION 組裝步驟

#### Step 6. 步驟6

Slide the tail boom assembly into the fuselage, and install rudder control bell crank.

將尾翼控制組插進機殼內後將尾旋翼控制臂組固定。



#### Step 7. 步驟7

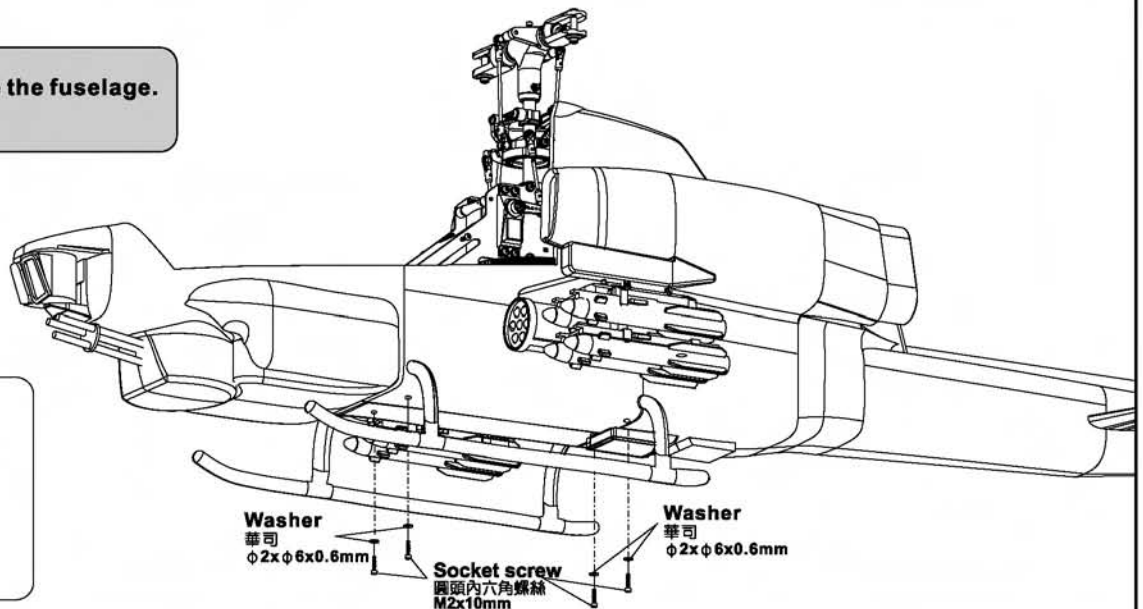
Fix the helicopter inside the fuselage.

將機身固定於像真機殼內。

#### 500HF2

**Socket screw**  
圓頭內六角螺絲(M2x10mm) x 4

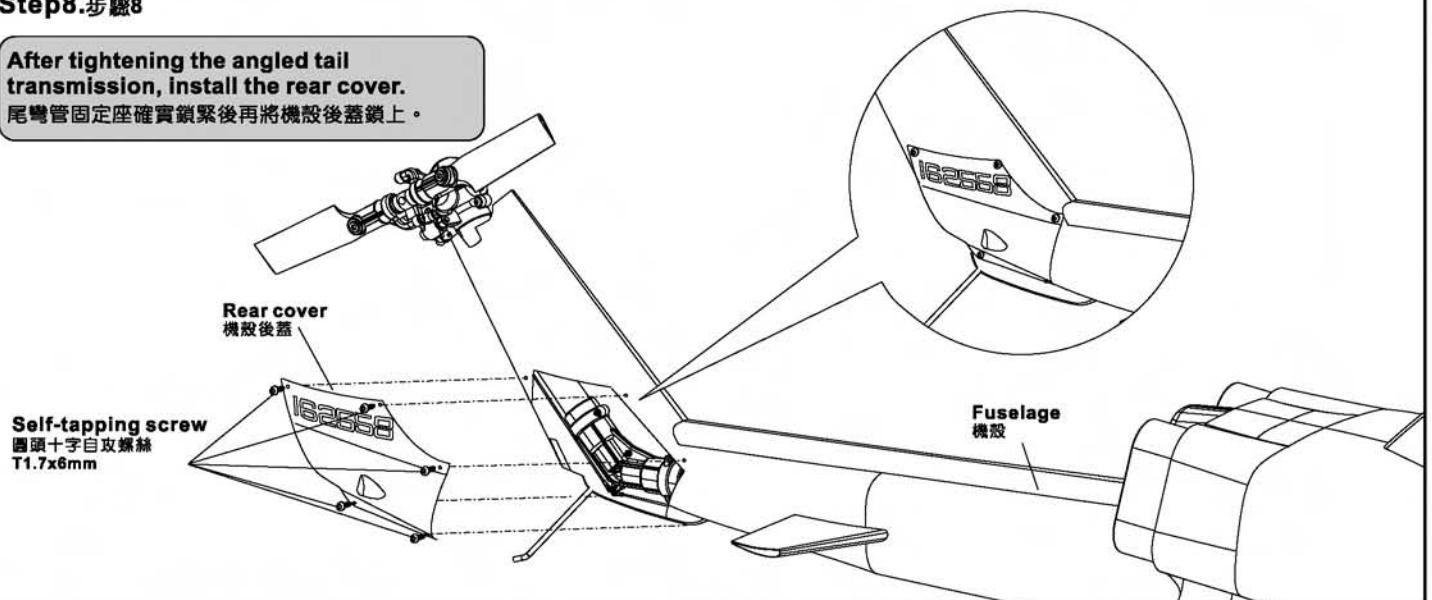
**Washer**  
華司(φ2x φ6x0.6mm) x 4



#### Step 8. 步驟8

After tightening the angled tail transmission, install the rear cover.

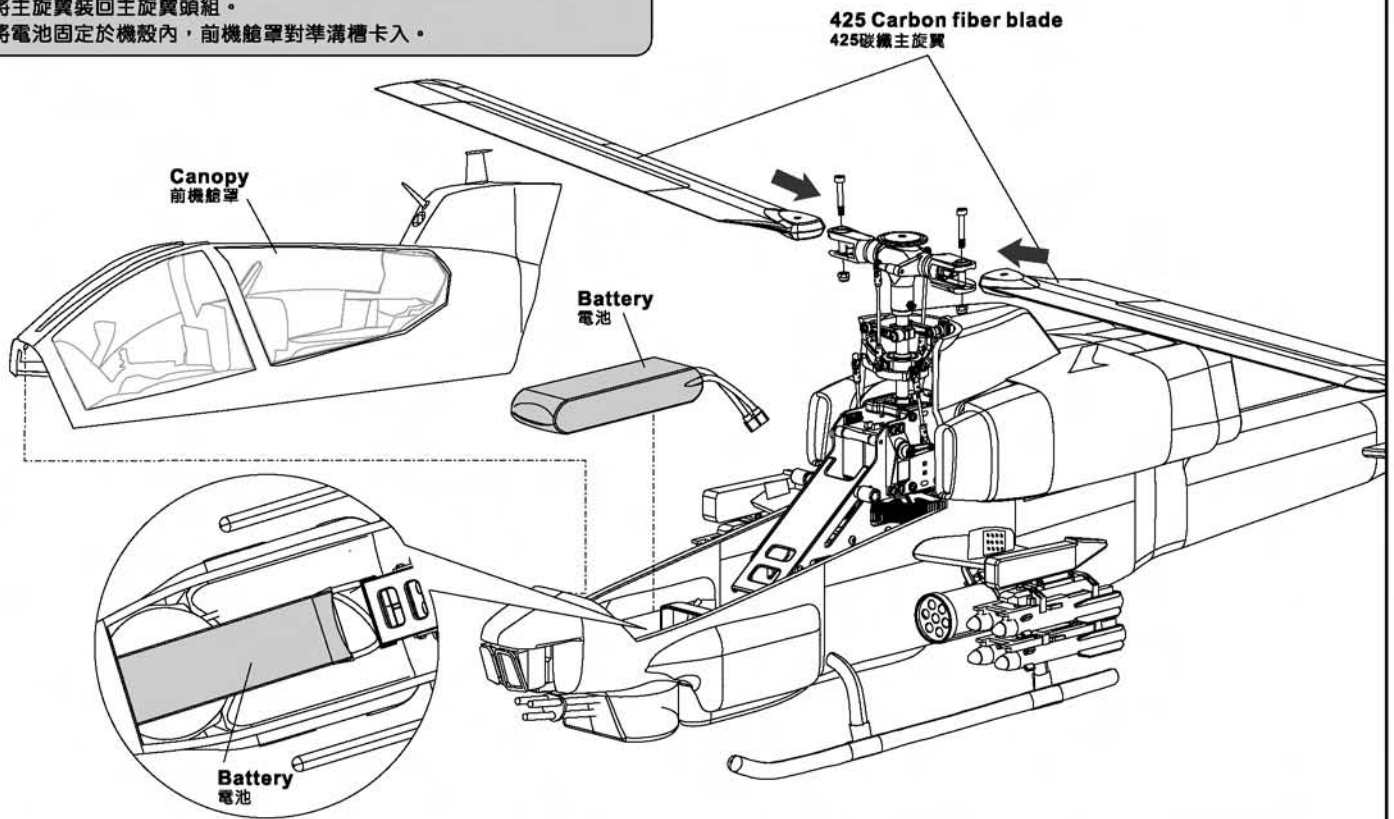
尾彎管固定座確實鎖緊後再將機殼後蓋鎖上。



### 3. ASSEMBLY SECTION 組裝步驟

#### Step9.步驟9

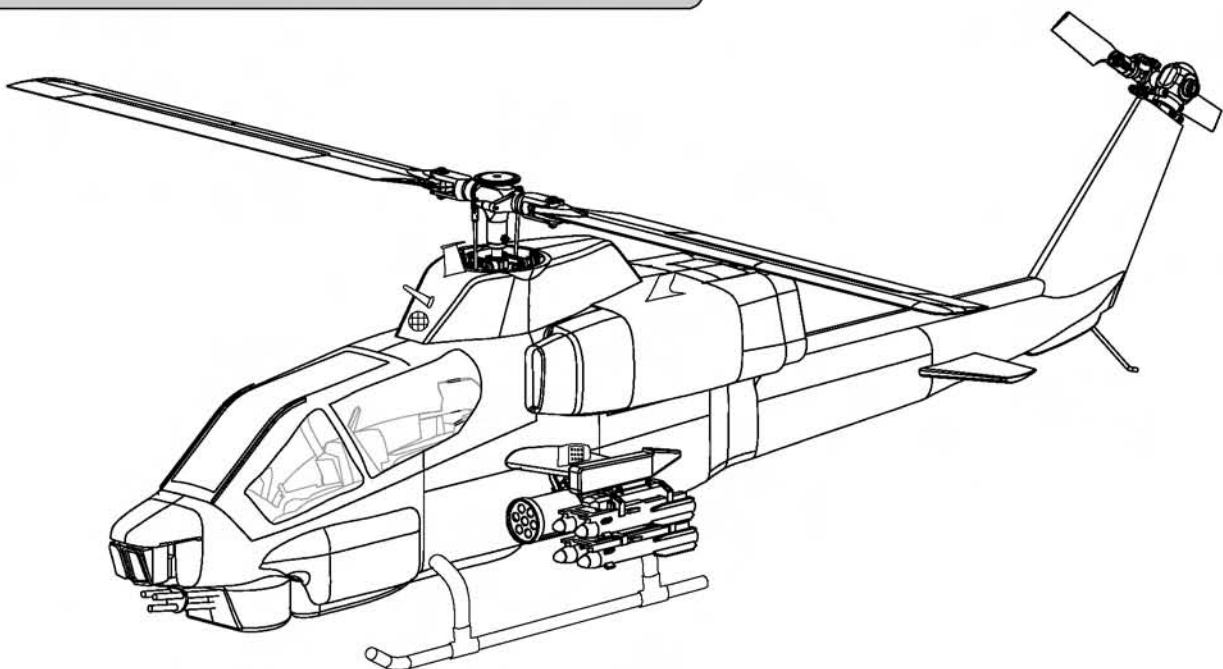
1. Assemble the main blades back to main rotor head set.
  2. Fix the battery into the fuselage, and attach the canopy.
1. 將主旋翼裝回主旋翼頭組。  
2. 將電池固定於機殼內，前機艙罩對準溝槽卡入。

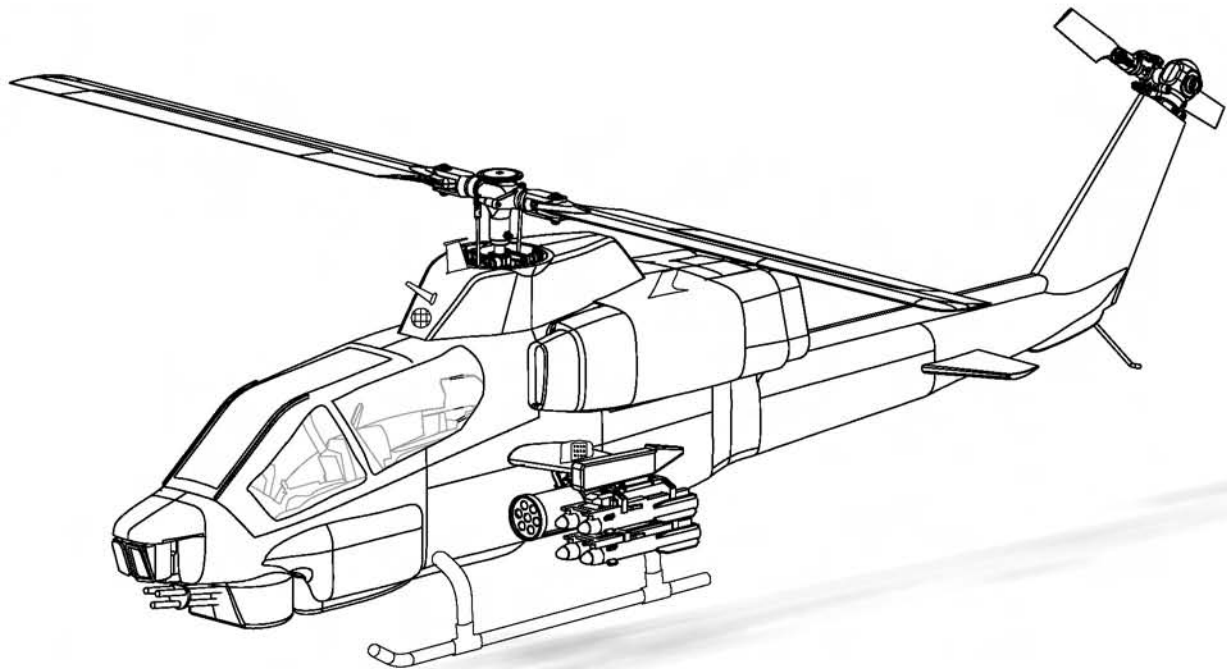


#### Complete illustration. 組立完成圖

Before flying, please carefully check every part again to make sure all parts are firmly secured without any interference.

請再詳細檢查各部位是否確實鎖緊與固定，並確定無干涉情形後才可以飛行。





**Specifications / 規格配備：**

**Length/機身長：1125mm**

**Height/機身高：244mm**

**Width /機身寬：330mm**

**Weight/空機重：1180g**

**Suitable for T-REX 500**

**適用於 T-REX 500機型**

